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90 PERCENT DESIGN REPORT

VOLUME II

WHITE TANKS FLOOD RETARDING STRUCTURE NO. 3
REMEDIATION DESIGN PROJECT
PHASE 1

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

CONTRACT FCD 2004C017

PCN 470.04.30

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APPENDIX A

ARIZONA DEPARTMENT OF WATER RESOURCES PERMIT APPLICATION CHECKLIST

Note to Reviewers: The ADWR Permit Application Checklist will be is not included with the 90 Percent Design Report. The checklist will be included with the 100 Percent Design Report.

APPENDIX B

SUBSIDENCE EVALUATIONS

INDEX OF ATTACHMENTS TO APPENDIX B

(WHITE TANK FLOOD RETARDING STRUCTURE NO. 3 REMEDIATION DESIGN STUDY)

Index Number	Title
B-1	GEOLOGICAL CONSULTANTS INC. - SUBSIDENCE AT WHITE TANKS FRS NO. 3 - HISTORICAL AND PREDICTIVE SUBSIDENCE ASSESSMENT, BY GEOLOGICAL CONSULTANTS INC.
B-2	URS MODIFIED APPROACH - SUBSIDENCE EVALUATION
B-3	FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - SUBSIDENCE EVALUATION **[NOT INCLUDED WITH THE 90 PERCENT DESIGN REPORT]**

Memorandum May 17, 2004

To: Todd Ringsmuth, P.E.
URS

From: Ken Euge, R.G.

Subject: Subsidence at White Tanks FRS No. 3
Historical and Predictive Subsidence Assessment
Contract No. FCD 2003055
Geological Consultants Project No. 2003-162

According to the scope of work for Work Assignment No. 1 for the White Tanks FRS No. 3, Design for Dam Modification, Geological Consultants Inc. is submitting herewith this technical memorandum to satisfy the Item 7.0 of the project Scope of Work.

1.0 Introduction

The assessment of land subsidence at White Tanks FRS No. 3 identified in the project slope of work included the following tasks:

- Review various historical reports that document the evaluation of land subsidence in the project area including but not limited to the Draft Design Issues Report dated November 20, 1998 prepared by Dames & Moore and the Preliminary Geotechnical Investigation Report dated March 16, 2004 prepared by AMEC Earth & Environmental Inc. (AMEC).
- Obtain historic water level data for wells located within two miles of White Tanks FRS No. 3 and review and graphically summarize the historic water level data.
- Obtain historic survey level data for National Geodetic Survey (NGS) benchmarks within a two and one-half mile radius of White Tanks FRS No. 3 and evaluate the NGS data relative to historic land subsidence trends in the dam vicinity.
- Consult with the Arizona Department of Water Resources (ADWR) and the Maricopa Association of Governments (MAG) regarding future potential water demands related to projected population increases in the West Salt River Valley that may induce future potential land subsidence in the project area.
- Prepare this technical memorandum to document the data findings, define historic land subsidence trends and deduce from the data future potential land subsidence that may impact the White Tanks FRS No. 3 structure.

2.0 Previous Land Subsidence Evaluations

According to the scope of work for the subject activity, we have completed our review of pertinent reports directed at the White Tanks FRS No. 3 including the Dames and Moore Draft Design Issues Report (1998), the AMEC Preliminary Geotechnical Investigation Report (2004), and other relevant documents.

2.1. Dames & Moore Draft Design Issues Report:

Background information is provided in the Dames & Moore report relative to the subsurface geology in the project vicinity and historic groundwater level trends. The described geology is typical for a fault block bounded basin with the Basin and Range Physiographic Province of south central Arizona. Basin stratigraphy consists several thousands of feet of unconsolidated and semi-consolidated alluvial sediments derived from the erosion of the basin-bounding mountains. The sedimentary sequence overlies crystalline basement rock. The basin sediment makes up the groundwater aquifer.

The Western Salt River Valley stratigraphy is divided into three sedimentary units: upper alluvial unit (UAU), middle alluvial unit (MAU), and lower alluvial unit (LAU). The UAU includes unconsolidated and poorly consolidated Quaternary age sand and gravel with some silt and clay. The MAU, also referred to as the "middle fine-grained unit" by the US Bureau of Reclamation (1976), consists of semi-consolidated to over-consolidated silts and clays with minor layers of sand and gravel. Near the margins of the basin the MAU is coarser-grained and poorly consolidated. The LAU, also referred to as the "lower coarse-grained unit" by the US Bureau of Reclamation (1976), is well-consolidated sand and gravel units that grade to finer-grained silt and clay near the center of the basin. A large evaporite deposit, referred to as the Luke Salt Body, occupies the central part of the basin and is included in both the MAR and the LAU.

Groundwater conditions described in the Dames & Moore Report indicate water levels in the vicinity of White Tanks No. 3 have generally declined since the 1940s with the greatest declines occurring between 1940 and 1970. Rates of decline have diminished since the 1970s and 1980s with some local well experiencing stabilized water levels or rebounding water levels

An evaluation of the NGS benchmark (H265) level data reported by Dames & Moore, suggest the similar trends of lowering ground surface elevations with comparable lower of the groundwater table in the basin. Benchmark H265 is located on the Beardsley Canal access road on the east side of the Beardsley Canal at the northwest corner of the northeast ¼ of Section 9, Township 2 North, Range 2 West. To extend the record period through 1991, elevation data use by Schuman and O'Day (1995), were incorporated into the Dames & Moore subsidence analysis. However, subsequent discussions with H.H. Schuman (personal communication, 2004) revealed that the 1988 and 1991 elevation data

used in Schuman and o'Day (1995) was not obtained from NGS leveling data but from a 1988 "conventional survey" from an unknown source and a 1991 survey reportedly conducted by the District. To deduce estimated subsidence from these surveys and extend the historical record, Schuman compared his 1988 survey data with the 1957 USGS Waddell Topographic Quadrangle spot elevations. Similar comparisons were made with the District's 1991 survey data. Although Schuman and O'Day (1995) indicated 17 to 18 feet of subsidence had occurred in the Luke Air Force Base area, the elevation data used estimate the subsidence could be inaccurate by as much as a foot or more.

The greatest water level declines, reported by Schuman and O'Day (1995) are associated with about 18 feet of land subsidence near the center of the basin in the Luke Air Force Base area. However, at White Tanks which is located near the margin of the subsiding basin almost four feet of subsidence is documented. The reported estimated subsidence rate is 0.0357 feet per year for the period 1991 to 2046 according to a study done by the NRCS. Figure 2-2 of the Dames & Moore report describes the historic land subsidence and depth to groundwater for a benchmark (H265) and a well (B(2-2)4 DCB). Benchmark H265 is located on the east side of the Beardsley Canal and its intersection with the Glendale Boulevard alignment at the northwest corner of the northeast ¼ of Section 9, Township 2 North, Range 2 West approximated 400 feet east of the White Tanks FRS No. 3 embankment centerline. Well b(202)4DCB is located approximately 150 feet east of the north end of White Tanks No. 3 FRS and about 1,400 feet north-northwest from benchmark H265. These data are used to define the historic rate of subsidence compared to changes in water level and to estimate future potential subsidence for the site

2.2. AMEC Preliminary Geotechnical Investigation Report

This report was prepared to help identify a new dam location downstream, and to assess the fissure risk White Tanks FRS No. 3. The land subsidence assessment presented in Preliminary Geotechnical Investigation Report was taken from a supplemental report of ground subsidence and earth fissures for White Tanks FRS No. 3 dated February 7, 2003.

Generally, the basin stratigraphy described in the AMEC (2004) report is similar to that described in the Dames and Moore (1998) report. However, the AMEC descriptions were expanded to include estimated depth and thickness of the various basin fill units. From the results of a gravity survey, the estimated depth to bedrock at White Tanks No. 3 is about 1,000 to over 1,600 feet below ground surface. The Upper Alluvial Unit (UAU) is estimated to be about 400 feet to 700 feet thick; the Middle Fine-Grained Unit (MFGU) about 400 feet to 500 feet thick; and the Lower Alluvial Unit (LAU) about 400 feet to 500 feet thick.

The description of groundwater conditions in the AMEC report is similar to the conditions described in the Dames & Moore report.

Discussion of historic land subsidence in the AMEC report relied on the same NGS data prior to 1984 showing similar rates of subsidence between 1948 and

1982. A comparison of the 1990 level survey of the dam crest to the design elevation of the crest suggests the south end of the structure has subsided about one foot while the north end has subsided about 4.5 feet. Level survey data along the crest of the dam were used to estimate settlement for the period 1990 through 2001. The estimated settlement for the south end of the dam is about 0.2 feet and for the north end 0.4 feet. AMEC also evaluated InSAR interferograms for the same period which documented similar relative elevation changes within the study area.

2.3. Other Data

Other relevant documents have also been acquired pertaining to historic groundwater levels (ADWR) and level survey benchmark records (NGS), projected population growth through year 2030 (Maricopa Association of Governments), projected water use through year 2030, and surface geology subsurface stratigraphy of the site vicinity (AzGS, USGS, USBOR).

3.0 Groundwater

The major human-induced factor contributing to subsidence is the large scale pumping and removal of groundwater. Nearly all of the populated southern Arizona basins from Phoenix to Tucson have experienced at least a 100+ foot drop in groundwater level, and an area surrounding the town of Stanfield, Arizona has dropped more than 500 feet (Schumann, 1986).

3.1. Groundwater Conditions in the West Salt River Valley Sub-Basin

White Tank #3 FRS is within the West Salt River Valley Sub-Basin, one of the seven groundwater sub-basins within the Phoenix Active Management Area (AMA) as defined by the Arizona Department of Water Resources (ADWR, 1994). Prior to 1923, the groundwater system in the West Salt River Valley was in equilibrium, recharge and outflow were balanced. Groundwater underflow was to the south toward the Gila and Salt Rivers. Agricultural activity increased dramatically in the 1930's by utilizing the large-scale pumping of groundwater. By 1923, 2.3 million acre-feet per year were needed to meet agricultural demands. As a result, groundwater flow directions were impacted due to the lowering of the water table. The water table decline appeared to reach its maximum in the mid 1980's. A significant groundwater sink, or lowering of the water table occurred northeast of the Luke AFB area causing groundwater flow direction to concentrate in that area (Schumann, 1995).

For approximately the last 20 years (since the mid 1980's) the rate of groundwater level decline has decreased in the project vicinity. However, the overall trend is of ongoing water level decline.

Analysis of water level data (ADWR, 2002) from selected wells in the area indicates water levels have indeed dropped from 200 to 250 feet from the early 1940's through 2002.

3.2. Groundwater Conditions in the White Tanks FRS No. 3 Area

To complete the groundwater analysis, all wells within 2-miles of the center of the dam were identified using ADWR's GWSI database (ADWR, 2003). A total of nineteen wells were identified within the 2-mile radius zone (Figure 1). Several of the wells within this zone have only one or two water level reading. Because of the limited or very sporadic readings, those wells were not used in this analysis. Thirteen wells within the 2-mile radius zone that appeared to have sufficient water level history records to permit a reasonable assessment of historic groundwater trends. No historical information was available from ADWR on the pumping rates of these wells.

Water level hydrographs for 9 wells south and southeast of White Tanks FRS #3 (Appendix A) depict water level increases over the past 20- to 25-years. A well record approximately 1-mile east of WT#3 (B-02-02 10BAA) depicts relatively static water levels from 1972 to 1998. Two wells located northeast (B-02-02 03BAA) and northwest (B-02-02 05AAB) of WT#3 depicted water level readings too erratic to discern any reliable trend over the past 30 years. Hydrographs were obtained from the ADWR technical database. When reviewing the hydrographs (Appendix A) be aware that the plot may be either exaggerated or muted because the Depth to Water and Date Measured ordinate and abscissa are not to the same scale.

In the White Tanks FRS No. 3 area, the groundwater levels at a well located 600 feet east of the north end of the dam (Well B-02-02 04DCB) showed a groundwater decline of about 150-feet between 1946 and 1976. From 1976 to 2002, the groundwater decline at the well is about 25-feet.

Water level records we have observed in wells throughout southern and central Arizona Basin and Range have generally shown a similar record. Dramatic water level declines from the time the well was installed to about the mid 1970's to mid 1980's. Within this period, water levels have generally either leveled off, or reversed trend and started to increase. We believe the dramatic water level decline was interrupted by a few conditions:

1. Above average rainfall in the late 1970's and early 1980's.
2. Additional water provided by the CAP canal.
3. In localized areas, retirement of farmland, or a switch to crops that required less water to sustain.

Arizona is currently in a drought. While water levels in the vicinity of the dam have either stopped declining, or are showing an overall increase in groundwater

levels, it remains to be seen what effect less rainfall in the area will have on aquifer recharge and water level conditions.

In summary, the results of this assessment indicate groundwater level trends are generally static throughout the area with some individual wells that show increasing water levels and some wells that show falling water levels, albeit at relatively low rates. One well (B-02-02 04DCB), located just east of the north end of White Tanks No. 3, has been regularly monitored since the late 1940s. The water level history of this well depicted in its hydrograph documents a decline of almost 150 feet through 1970 and an additional 25 feet through 2000 (Appendix A). This well in conjunction with the historic NGS level line data is used to assist with the definition of historical land subsidence and subsidence rates.

4.0 Subsidence

4.1. Historical Land Subsidence

Land subsidence is known to occur in alluvium filled valleys of Arizona where agricultural activities and urban development have caused substantial over-drafting or removal of groundwater from thick basin aquifers. The magnitude of subsidence is directly related to the subsurface geology, the thickness, and compressibility of the alluvial sediments deposited in the valleys, and the net groundwater decline. According to Bouwer (1977), land subsidence rate range from about one- hundredth to one-half feet per 10-foot drop in groundwater level, depending on the thickness and compressibility of the basin fill sediments.

There are three categories of land subsidence: (1) active subsidence; (2) residual subsidence; and (3) total subsidence. Land subsidence induced by groundwater over-drafting (or over pumping) is referred to as "active subsidence" and it does not immediately stop once pumping is stopped. As groundwater levels stabilize, or begin to rise, the subsidence continues for some time before it gradually diminishes and stops. The land subsidence that continues after groundwater levels stabilize or rise is referred to as "residual subsidence" and generally continues for several years (EPA, 2001). The entire land subsidence process cannot be considered complete until residual subsidence approach zero, whereas the cumulative drop in the land surface, know as "total subsidence" can be determined. Because of the near-static to rising water levels in the site vicinity, the land around White Tank FRS No. 3 is an area of residual subsidence.

4.2. Regional Subsidence

Prior to the utilization of groundwater resources within the Phoenix area, the water table was higher and hydrogeologic conditions were in equilibrium. Water levels within the aquifer were lowered when pumping was initiated and the basin fill sediments were dewatered. In the arid southwest, the water in the aquifer may be removed by pumping faster than it can be naturally replenished causing a net

water table decline. As a result, the weight of the soil column is gradually increased as the buoyant effects and aquifer pressures induced by the water acting on the soil column are decreased. This condition causes increased loading stresses to consolidate portions of the thick compressible sediments that result in the lowering (subsidence) of the land surface over a large area.

Land subsidence was first documented in Arizona in 1934 following the releveling of first-order survey lines by the Coast and Geodetic Survey (now the National Geodetic Survey (NGS)). Subsequent leveling by the NGS, the U.S. Geological Survey, the Bureau of Reclamation, and the ADOT has documented substantial land surface subsidence in south central Arizona including the Salt River Valley, the Queen Creek Apache Junction area, and the Eloy Casa Grande Stanfield area as overdrafting of the aquifer continues.

4.3 Subsidence in the White Tanks FRS No. 3 Area

Land subsidence is well documented within the project area. Data from the National Geodetic Survey (NGS) (Figure 2) (Table 1a), the District survey of NGS benchmarks in 2004 (Table 2a), District releveling data at the crest of White Tank #3 (Figure 4), and DifSAR data provided by ADWR are used to complete the assessment of historic land subsidence.

Level line elevation data obtained from NGS are unadjusted. Where the leveling network is not complex and demonstrably stable local benchmarks are nearby, unadjusted leveling data are commonly used for land subsidence evaluations. In the White Tanks FRS No. 3 area, unadjusted NGS level line elevation measured at benchmarks along the Beardsley Canal (Figure 3) were used to initially calculate land subsidence over the period 1948 to 1981 (Table 1a). Calculated land subsidence using unadjusted NGS leveling survey data are summarized in Table 1b and depicted in Figure 3.

Table 1a
Level Survey Benchmark Elevations (unadjusted)
Along Beardsley Canal

Benchmark Designation	1948 Elevation (ft)	1967 Elevation (ft)	1981 Elevation (ft)
F265	1149.1029	1147.2787	1146.5712
G265	1168.3720	1167.2662	1166.7200
H265	1199.3116	1197.5740	1196.3050
J265	1231.4593	1230.4145	1229.1619
K265	1277.6508	1276.7714	1275.6065
3541	1306.6060	1305.1050	1302.7554

Table 1b
Subsidence Along Beardsley Canal Benchmarks

Benchmark Designation	Total Subsidence (ft) 1948-1967	Subsidence Rate (ft/yr) 1948-1967	Total Subsidence (ft) 1967 – 1981	Subsidence Rate (ft/yr) 1967 – 1981	Total Subsidence (ft) 1948-1991	Subsidence Rate (ft/yr) 1948-1981
F265	1.824	0.096	0.707	0.050	2.531	0.077
G265	1.106	0.058	0.546	0.039	1.652	0.050
H265	1.738	0.091	1.269	0.091	3.007	0.091
J265	1.045	0.055	1.253	0.089	2.298	0.070
K265	0.879	0.046	1.165	0.083	2.044	0.062
L265	1.252	0.523	2.599	0.186	3.851	0.117

In 2004, the District acquired adjusted NGS level line elevation data for the north-south NGS level line parallel to the Beardsley canal for the period 1948 to 2004. Table 3a shows historical elevation data and Table 3b shows the total amount and rate of subsidence for the data intervals. Table 4 summarizes the historical subsidence measured at NGS benchmark H265 which is closest to the White Tanks FRS No. 3 structure (Figure 2).

Table 3a
NGS Benchmark Elevations Along Beardsley Canal

Benchmark Designation	1948* Elevation (ft)	1967* Elevation (ft)	1981* Elevation (ft)	2004** Elevation (ft)
F265	1149.186	1147.034	1146.565	No Data
G265	1168.455	1167.021	1166.716	No Data
H265	1199.393	1197.326	1196.300	1195.694
J265	1231.542	1230.167	1229.157	1228.731
K265	1277.730	1276.522	1275.604	1275.257
L265	1306.683	1305.105	1302.753	No Data

* NGS Adjusted Elevations ** Adjusted elevations obtained by FCDMC (FCDMC, 2004)

Table 3b
Subsidence Along Beardsley Canal; NGS Benchmarks

Benchmark Designation	Total Subsidence (ft) 1948-1967	Subsidence Rate (ft/yr) 1948-1967	Total Subsidence (ft) 1967 – 1981	Subsidence Rate (ft/yr) 1967 – 1981	Total Subsidence (ft) 1981-2004	Subsidence Rate (ft/yr) 1981-2004
F265	2.152	0.1133	0.469	0.0335	No Data	-
G265	1.434	0.0755	0.305	0.0218	No Data	-
H265	2.067	0.1088	1.026	0.0733	0.606	0.0263
J265	1.375	0.0724	1.010	0.0721	0.426	0.0185
K265	1.208	0.0636	0.918	0.0656	0.347	0.0151
L265	1.578	0.0831	2.352	0.1680	No Data	-

Table 4
Historical Subsidence Benchmark H265

Time Period	Subsidence (feet)	Subsidence Rate (feet/year)
1948 to 1967	2.07	0.11
1967 to 1981	1.03	0.07
1981 to 2004	0.61	0.03

For the purpose of this subsidence evaluation the adjusted elevation data obtained by the District will be used to define historical land subsidence trends in the White Tanks FRS No. 3 area.

Releveling of the White Tanks FRS No. 3 crest monuments by the District (2004) shows ongoing subsidence/settlement along the crest of the dam (Figure 4). Between 1990 and 2003 the elevation at the crest of the dam is lowering at a rate of 0.011 ft at station 70+07 to 0.030 ft/yr at station 10+00, which means that the northern crest of the dam is subsiding at a rate greater than the southern end.

Difsar data for an 8-year period (Figure 5) (ADWR, 2004) shows a similar trend. According to this data the southern end of the dam has undergone approximately 0.2 ft of subsidence between July 1992 and October 2000 and the north end of the dam has subsided almost 0.26 feet of the same period (Figure 6). The comparison with interferometry records, particularly DifSAR records, for the 8-year period ending October 2000 indicates an average subsidence rate of 0.019 feet per year. Both the District releveling data and the DifSAR data show the north end of the dam subsiding at a higher rate than the southern end of the dam.

Due to the large gaps in time between the data, 1981 to 1992 and 2000 to 2004, the DifSAR information was not integrated into any of the graphs using adjusted NGS benchmark elevations. However, Figure 7 is provided to illustrate a reasonable comparison between the DifSAR data and the benchmark data. The DifSAR point was calculated by taking the maximum 8-year deformation value from the DifSAR information (0.276) and adding it to the 2004 elevation (assuming no subsidence over period 2000 to 2004), to give a hypothetical 1992 elevation. This point falls within the range of the benchmark subsidence data.

An assessment of incremental land subsidence verses groundwater drawdown was performed using historical land subsidence calculated using the adjusted NGS leveling data from benchmark H265 and water level decline data from well B-02-02 04DCB. Table 5 provides a summary of this assessment.

Table 5
Incremental Land Subsidence vs. Drawdown

Time Period	Δ Subsidence (feet)	Δ Water Level Decline (feet)	Subsidence/Drawdown Ratio (feet/foot)
1948 to 1967	2.07	111	0.019
1967 to 1981	1.03	15	0.069
1981 to 2004	0.61	20	0.031

The comparison of the groundwater level decline to the subsidence records suggests that active subsidence is continuing in the White Tanks FRS No 3 area through the period of record. The results of our assessment of historical groundwater and land subsidence records are consistent with the results described in the Dames and Moore and the AMEC studies. In our opinion, based on the assessment of the differential InSAR (DifSAR) data when compared to the grade of the north end of the FRS is about 4 feet below design grade due primarily to land subsidence in the area. Residual subsidence in the area will continue to cause a lowering of the crest elevation.

5.0 Future Potential Land Subsidence

5.1 General

Attempting to quantify future potential land subsidence is a difficult task. Several factors come into play that can affect future subsidence. These factors include, but may not be limited to, the following:

- On-going residual subsidence.
- Continuing groundwater use at present rates.
- Reduction in groundwater use.
- Future increases in groundwater use.
- Location of pumping centers.
- Water use practices.
- Increase or decrease in available surface water.
- Increase or decrease in groundwater level.
- Aquifer compressibility.
- Saturated thickness of aquifer
- Depth to bedrock or subsurface structural feature.

Because of the wide variety of complex and interrelated factors that can affect subsidence predictions, the selection of appropriate prediction methods must consider simplifying assumptions to reduce complexities. For the analysis of future potential land subsidence at White Tanks FRS No. 3, we have examined two cases:

1) Predicted subsidence with present-day groundwater conditions and
2) Predicted subsidence with additional groundwater withdrawal.

5.2 Predicted Subsidence with Present-Day Groundwater Conditions

Predictive assessments of future potential land subsidence were conducted using conventional empirical methods with available subsidence data to estimate future trends. In this method, the amount of land subsidence is considered a function of time, ignoring the causality of land subsidence. We used the historical records to determine the rate of subsidence and projected the values to year 2100 using and linear approximations and linear extrapolation of the historical data to year 2100.

5.2.1 Predicted Subsidence at Benchmark H265

Historical data used for the extrapolations included the adjusted elevation data provided by the District for NGS benchmark H265 for the period 1947 through 2004. A visual extrapolation curve was constructed for the period 1947 through 2100 (Figure 8). Based on the visual extrapolation, the estimated subsidence expected by year 2100 is about 1.67 feet with a rate of subsidence of about 0.02 feet per year. Assuming groundwater levels are static or rising during this period, the subsidence would be classified as is residual subsidence. A plot of the linear trend analysis curve for the period 1981 through 2004 is presented in Figure 8. In this scenario, using the difference in subsidence between 1981 and 2004, the subsidence rate is about 0.026 feet per year. Assuming this rate continue through year 2100 the total subsidence that could be experience at White Tanks No. 3 could be about 2.53 feet.

5.2.2 Predicted Subsidence Using DifSAR Interferometry

Future potential land subsidence was also calculated using differential interferometry (DifSAR) of land surface deformation for the period 1992 through 2000. However, because the DifSAR point is about 14 feet from the benchmark H265, it was examined independently from the benchmark data. It must be pointed out that the DifSAR point deformation represents an average deformation within a 50 meter pixel and therefore must only be used to evaluate a general subsidence trend for the 1992 through 2000 time period. Land subsidence and subsidence rates calculated from the DifSAR data point (closest to benchmark H265) is about 0.25 feet with a subsidence rate of about 0.03 feet per year. The average subsidence rate along the DifSAR profile line from Bethany Home Road to Northern Avenue is about 0.028 feet per year. A plot of the DifSAR deformation along a north-south profile parallel to the Beardsley Canal is depicted in Figure 5. Assuming the average DifSAR deformation rate is projected to 2100, the predicted subsidence through year 2100 could be about 2.688 feet.

5.2.2 Predicted Subsidence Using Differential Subsidence/Groundwater Level Ratio

For the determination of the rate of subsidence per foot of water level drawdown, the analysis assumed an approximation of water level decline that would occur through year 2100. The assumed groundwater level decline could be about 73 feet over the next 100 years based on a visual linear extrapolation of the historical rate of water level decline in well B-02-02 04BCD over the period from 1975 through 2002. According to the ADWR well location database, this well is located about 200 feet east of the north end of White Tanks FRS No. 3. This scenario was evaluated to assess the future potential subsidence using the ratio of subsidence to water level decline. The predictive results for this scenario suggest that for the period of record between 1981 and 2004 the differential subsidence and water level change is 0.606 feet and 19.75 feet, respectively, resulting in a subsidence/drawdown ratio of 0.03 feet/foot (Figure 10). Using this subsidence/drawdown ratio projected to year 2100, the resultant subsidence is about 2.98 feet.

5.3 Predicted Subsidence with Additional Groundwater Withdrawal

The most significant factor affecting the actual rates of land subsidence, and ultimately total subsidence over the next 100 years, is the response to the groundwater aquifer to pumping and recharge. Changes of land use from agricultural to urban uses and the resulting population growth and water demand are expected to negatively impact land subsidence. Predicting land subsidence using population growth and estimated water demand only provides a rough indicator of potential impact to the aquifer on a basin-wide or sub-basin level. This information cannot be used to predict land subsidence unless a groundwater drawdown model is applied to the growth and demand factors.

5.3.1 Population Growth Projections

Maricopa Association of Governments (MAG) has prepared population growth projections for the County that only go through year 2030. To estimate the future potential water demands that might be expected over the next 30 year, we have examined the local areas surrounding the White Tank No. 3 to determine the potential impact of population growth on water use requirements for the area. Four Residential Area Zones (RAZ) surround White Tanks No. 3 (Figure 11). The total population growth for these areas through 2030 is 143,817 (Figure 12) which equates to about 54,280 housing units.

5.3.2 Water Demand Projections

Using the ADWR formula for calculating water use (ADWR, 1999), the residential water demand ranges from 1.206 AF per year for 2000 to 12,238 AF per year through 2030. Non-residential water demand ranges from 1,450 AF per year for year 2000 to 10,772 AF per year through 2030. The combined values

equate to a total estimated water demand of about 23,010 acre-feet per year. The sources expected to meet this demand will come from surface water sources (Central Arizona Project, Salt River Project, and local irrigation districts), reclamation/recharge sources, and groundwater. Percentage distributions from each of these sources are expected to vary from year to year as has in the past (ADWR, 1999). If it were possible to accurately define the numerous input parameters, it might be possible to distribute this water demand equally to each of the wells within each RAZ area and calculate rough approximations of groundwater level drawdown a resultant land subsidence impact estimated. However, changes in the assumption made regarding groundwater demand, such as allocations during wet and dry cycles, well sites where groundwater is pumped, and changes in land use will significantly affect drawdown calculations thereby making the resulting projections of future potential land subsidence subject to question. Likewise, making minor changes in the assumptions made could radically affect projected subsidence estimate. Therefore we have not attempted to develop subsidence predictions using projected water demands.

5.3.3 Projected Groundwater Conditions

Groundwater modeling and analysis are commonly required to assess potential impacts to the aquifer system that may be caused by new, large master planned community development. Likewise, studies encompassing larger basin-wide area are conducted by regulatory agencies. When the results of these types of studies are available they may be used to predict groundwater drawdown into the future. In the case of land development, the analysis attempt to predict drawdown of a 100-year period as part of the 100-year assured water supplies that are required for permitting and to demonstrate that the water table will not be drawn down more than 1,000 feet below ground surface. The predictive time period for other water use planning studies may vary from 5 years to 25 years or more.

5.3.2.1 ADWR Water Planning Study: URS obtained and reviewed published data on future groundwater usage and levels as modeled by ADWR (1996). According to this report, the decline in groundwater levels between 1983 and 2025 is predicted to range from 50 to 100 feet. The rate of decline for this time period ranges from approximately 1.2 feet per year to 2.4 feet per year. ADWR (1996) assumes that the three Water Planning Areas in the immediate vicinity of White Tanks FRS No. 3 rely fully on groundwater for current and future water supplies. The ADWR model does not predict groundwater level declines past 2025. Assuming that the rates of decline remain unchanged, it is estimated that over the 100-year design life of the dam, groundwater levels at the dam could decline by 120 to 240 feet.

5.3.2.2 Maricopa Water District Water Study: Groundwater drawdown projections associated with a major land planning study for the development of approximately 2,000 acres parallel to the Beardsley Canal was recently conducted by Fluid Solutions of Phoenix, Arizona. The study, which was conducted for the

Maricopa Water District, included an area adjacent to the east side of the Beardsley Canal from McMicken Dam south of Trilby Wash to one-mile south of White Tanks FRS No. 3. The results of the Fluid Solution's drawdown study suggests the water demand for developments in the vicinity of White Tanks FRS No. 3 could cause a lowering of the water table of about 375 feet over the next 100 years. Figure 13 depicts the future potential water level decline hydrograph.

We have assumed the water table will decline at the present rate until the development begins to draw groundwater from the aquifer by the year 2010. At that time increased water use could cause an increase in the drawdown rate. To predict the future potential land subsidence, we have assumed the incremental subsidence/drawdown ratio will be similar to the initial incremental ratio of the 1948 to 1967 period, about 0.019 feet of subsidence per foot of drawdown. We believe this ratio is reasonably conservative considering the renewed drawdown is starting essentially from a "static" level similar to the initial rapid drawdown period for this well. Therefore, assuming the 0.019 feet per foot ratio, the estimated future potential land subsidence that could be induced with this water level change is about 7.17 feet or about 0.07 feet per year. Groundwater demand from adjacent parcel for urban development or agricultural purposes could cause an additional drop in the water table and a proportional increase in the rate of land subsidence.

5.3.4 Subsidence Prediction Summary

The results of the predictive subsidence evaluation are summarized in the following table.

Table 6
Summary of Predictive Subsidence Evaluation (at or near Benchmark H265)

Predictive Method	2100 Predicted Subsidence (feet)
Visual Extrapolation	1.67
Linear Extrapolation	2.53
DifSAR Interpolation	2.69
Subsidence/Water Level Decline Ratio	2.98
Drawdown Analysis (ADWR)	2.28-4.56[1]
Drawdown Analysis (MWD)	7.17

1 URS (2004) Predicted subsidence estimated by extrapolation of ADWR groundwater projections through 2100.

- If groundwater levels in the vicinity of the White Tanks FRS No. 3 continue to decline at a nominal rate similar to the rate during the period between 1981 and 2004, the predicted design subsidence of 1.67 feet of additional subsidence by year 2100 is not unreasonable. A reasonable conservative upper bound subsidence limit assuming the same water level

decline is 2.98 feet. In our opinion, considering the predicted water demand estimates by ADWR and MWD, there is a moderate to high probability that the lower bound value of predicted land subsidence could be exceeded over the life of the structure.

- Based on our interpretation of the data used and the uncertainties associated with calculating estimates of future potential land subsidence, it is possible that approximately 1-foot to 4 feet of subsidence could be experienced at the structure (Table 7). The maximum subsidence would occur at the north end of the structure. In our opinion, there is a moderate to low probability of exceeding the upper bound limit of the predicted land subsidence in this area over the life of the structure through 2100.

- Predicted land subsidence base on water use studies conducted by ADWR (through year 2025) and MWD (through year 2100) are estimated to range from 2.28 feet to 7.17 feet, respectively. In our opinion, there is a low probability of exceeding the upper bound limit of the predicted land subsidence

5.3.4.1 Subsidence at White Tanks No. 3 FRS: Subsidence monitoring conducted at White Tanks No. 3 FRS demonstrates that the measured land subsidence is not constant and varies throughout the length of the structure. Documented subsidence at the north end of the structure is greater than the subsidence at the south end. However, the subsidence trends during the period of record from 1990 to 2004 are reasonably consistent (Figure 4). We would expect that these observed subsidence trends to continue for several years unless there is a change in the groundwater patterns, such as water level decline, in the vicinity of the structure. Predicted subsidence for the White Tanks No. 3 FRS were approximated using level survey data from NGS benchmark H265. To determine the reasonableness of using this benchmark, a comparison was made of the subsidence measure at the structure to that measured at the benchmark. The comparison considered the ratio of the subsidence rates relative the maximum subsidence measured at station 10+00 at the north end of the structure for the period 1990 through 2003. The ratio of the subsidence rates at the structure relative to the subsidence rate at benchmark H265 was also determined. As can be seen in Table 7 the differential ratios range from approximately 1 percent to 4 percent.

Table 7
Comparison of Subsidence Rate Ratios
White Tanks No. 3 FRS & Benchmark H265

Station	Subsidence 1990-2003 (feet)	Rate of Change (feet/year)[1]	Subsidence Rate Ratio Relative to Station 10+00	Subsidence Rate Ratio Relative to BM H265[2]	Predicted Subsidence @ WT No. 3 (feet)[3]
10+00	0.325	0.025	1.00	0.96	4.00
19+95	0.325	0.025	1.00	0.96	4.00
30+00	0.273	0.021	0.84	0.81	3.24
40+00	0.234	0.018	0.72	0.69	2.76
49+88	0.156	0.012	0.48	0.46	1.84
60+08	0.091	0.007	0.28	0.27	1.08
70+07	0.091	0.007	0.28	0.27	1.08

1 Assumes groundwater level decline at current rate.
2 Subsidence rate at BM H265 calculated from 0.606 feet of subsidence over a 23-year period 1981 to 2004.
3 Predicted land subsidence White Tanks No. 3 FRS through year 2100 assuming groundwater level decline.

6.0 General Conditions

The geologic and hydrogeological observations, findings, and conclusions presented in this memorandum report for the subsidence evaluation conducted for the White Tanks No. 3 FRS and the interpretations made relied on information gathered from a variety of sources including FCDMC, ADWR, USGS, NGS, MAG, MWD, URS, and published documents in Geological Consultants Inc. library. These sources are believed to be reliable and appropriate for the evaluation of historic land subsidence and for making rough approximations of estimated future potential land subsidence.

It must be recognized that subsurface geologic, soils, and hydrogeological conditions may vary from place to place, over time, and from those found at locations where measurements or surveys were made by others to provide data used the investigator. No warranty or representation, either expressed or implied, is or should be construed regarding geological, soil, or hydrogeological conditions at locations other than those described in this report. Verification of the subsurface conditions, survey data, and other data provided by the various sources was beyond the scope of this investigation. The land subsidence predictions presented in this report used the best information and data available at the time of this evaluation. Although there may be uncertainties in the predicted subsidence estimates, the interpretations made and the assumptions used to render opinion regarding predicted land subsidence are believed to be reasonable.

The services provided by Geological Consultants Inc. were performed in accordance with generally accepted geological principles and standard practices used by members of the geological profession in this locale at the time of this study.

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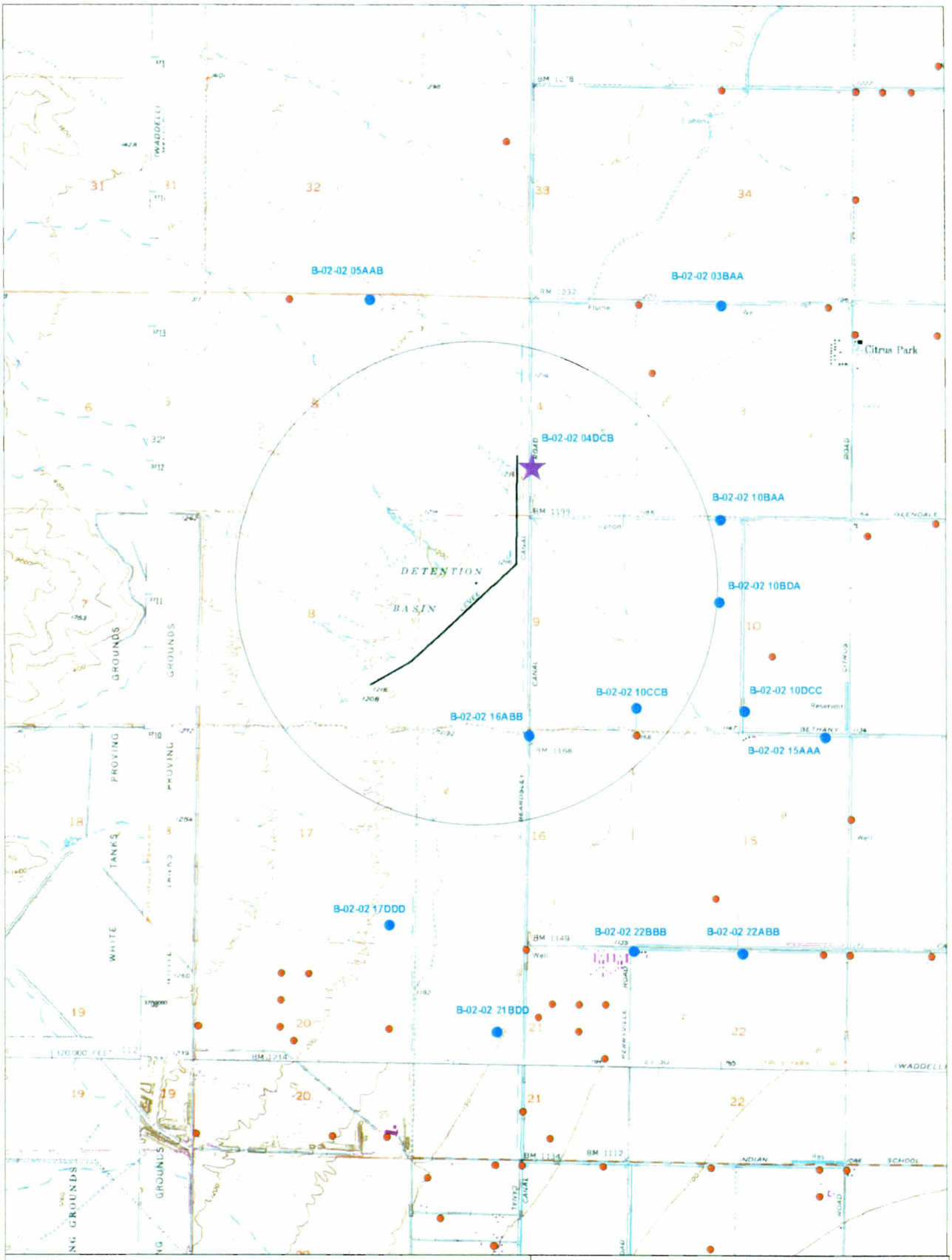


Well Location

Wells with Hydrographs (Appendix A)

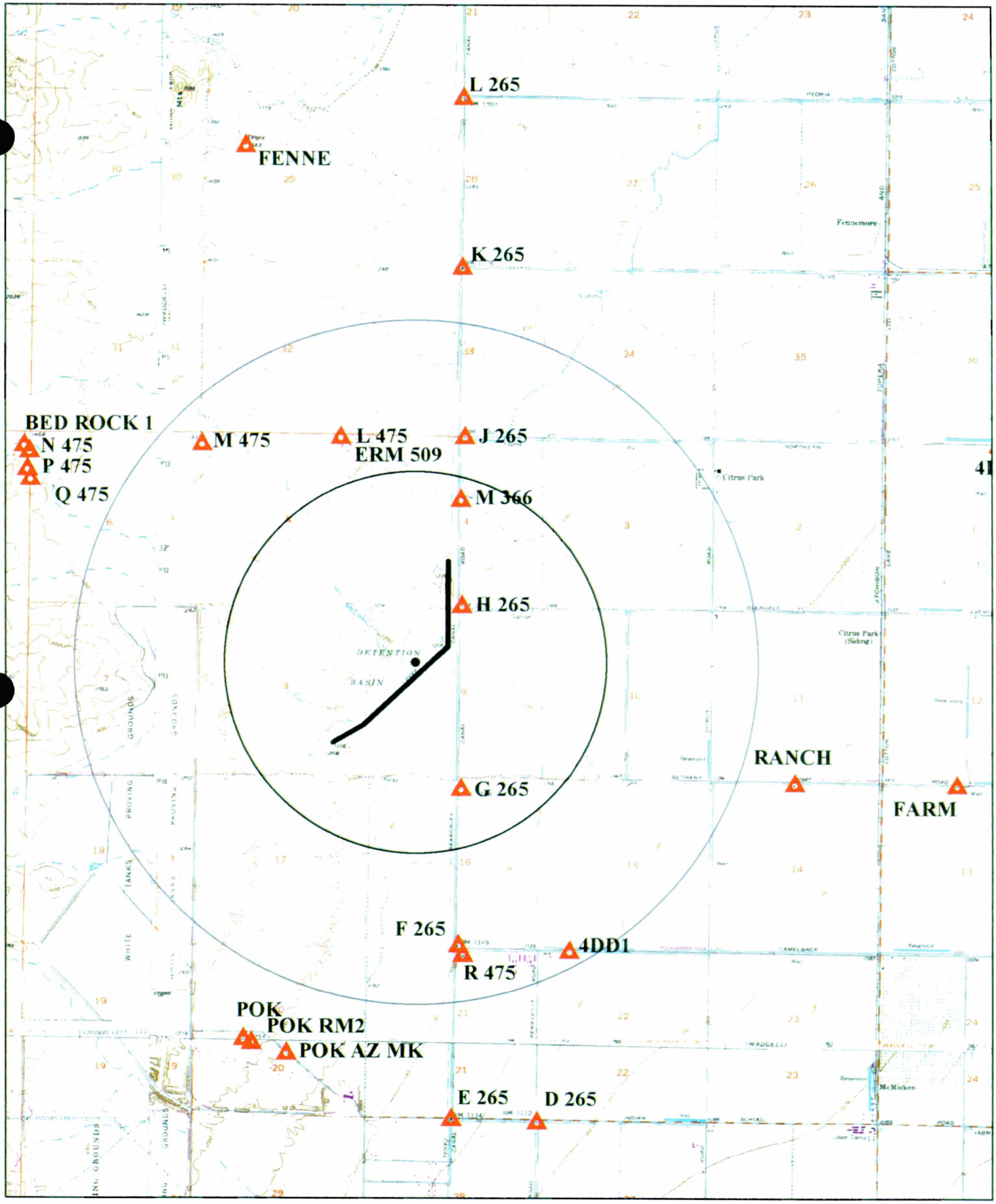
Well #B-02-02 04DCB (Appendix A)

1 inch equals 1,001.057930 feet

0 0.25 0.5 1 1.5 2 Miles

White Tank #3 Remediation Project
Land Subsidence & Earth Fissure Investigation
Well Hydrograph Location Map
Figure 1

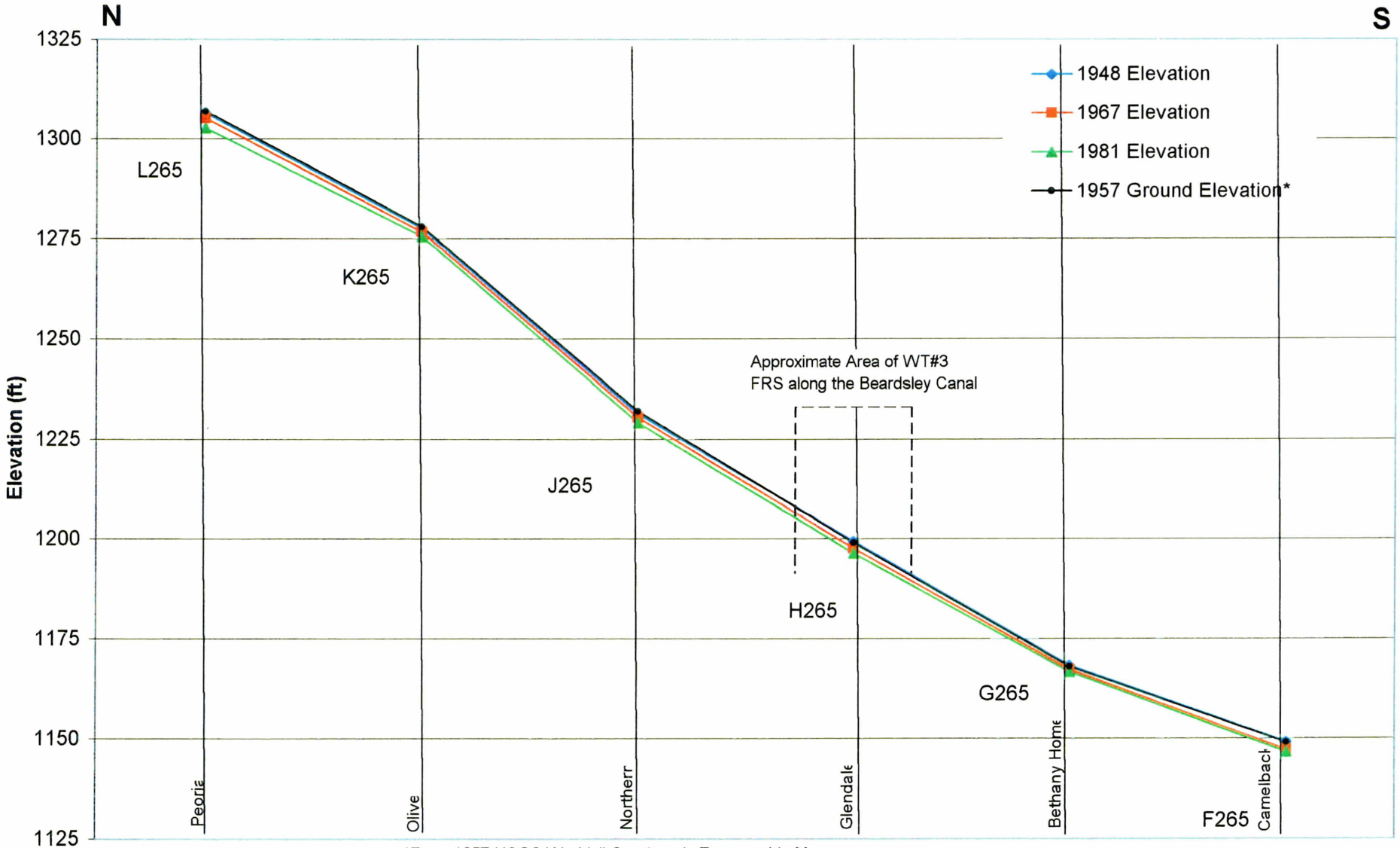
GEOLOGICAL CONSULTANTS INC.
2333 West Northern Ave, Suite 1A
Phoenix, AZ 85021
phone 602-864-1888
fax 602-864-1899



NGS Benchmark

Figure 2
Benchmark Location Map

NGS Level Survey Data (Unadjusted) along the Beardsley Canal



*From 1957 USGS Waddell Quadrangle Topographic Map.

FCD Contract No. 2003C014
GCI Project No. 2003-162

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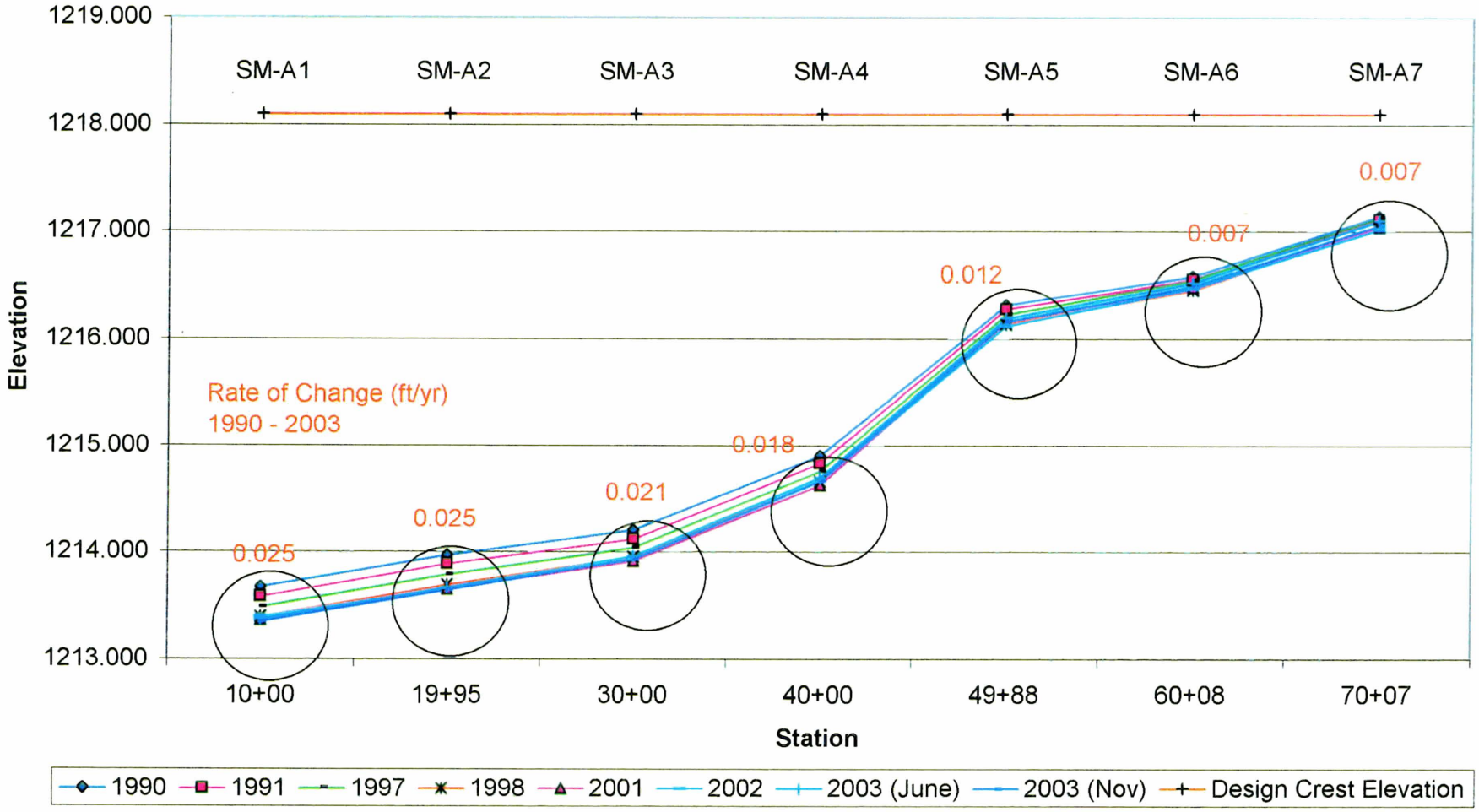
Figure 3

White Tanks FRS No. 3
Crest Monument Elevations
and Settlement/Subsidence Rates



FCD Contract No. 2003C014
GCI Project No. 2003-162

Fig 4_Crest Elev&Settlement

Figure 4

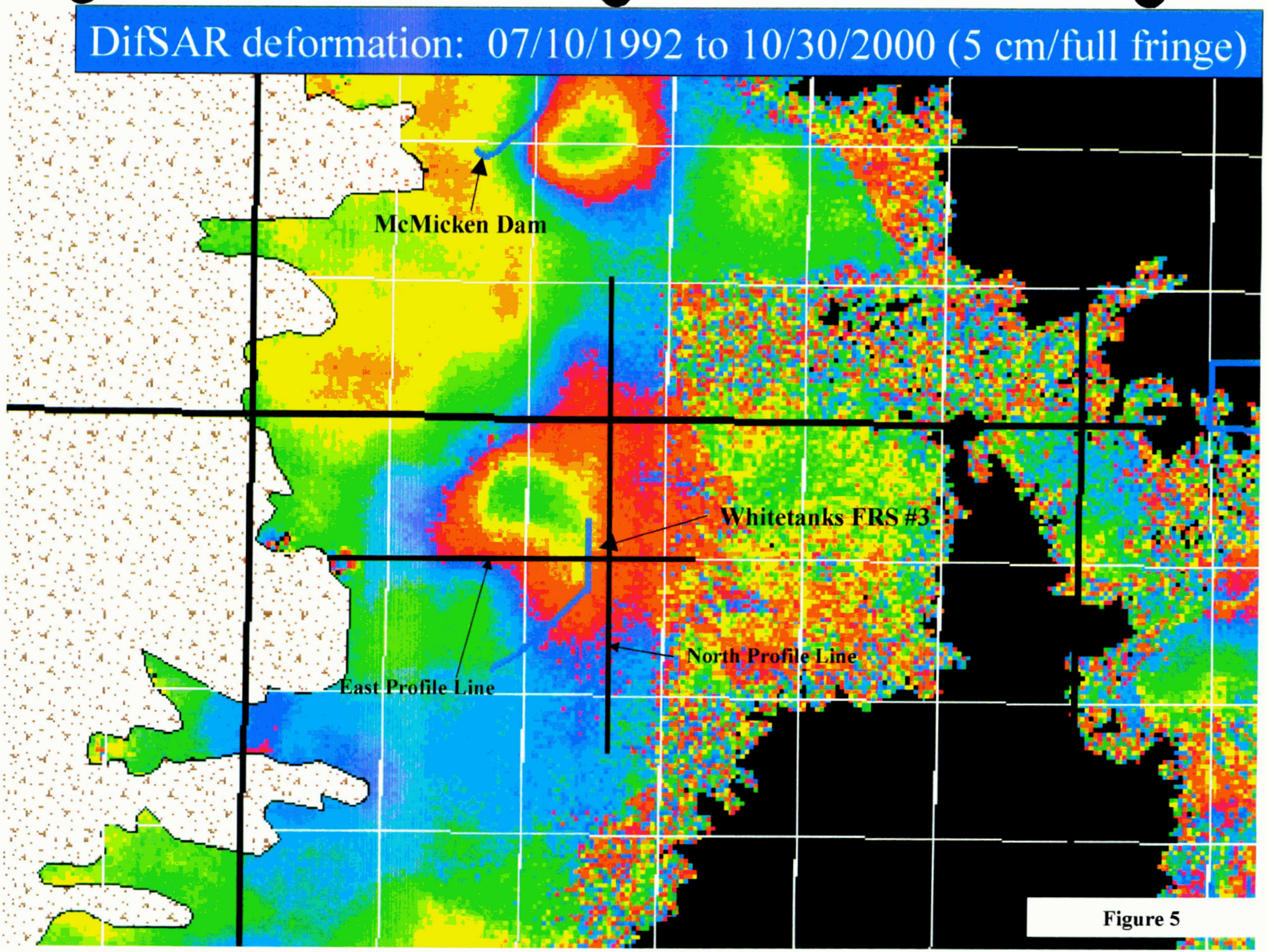
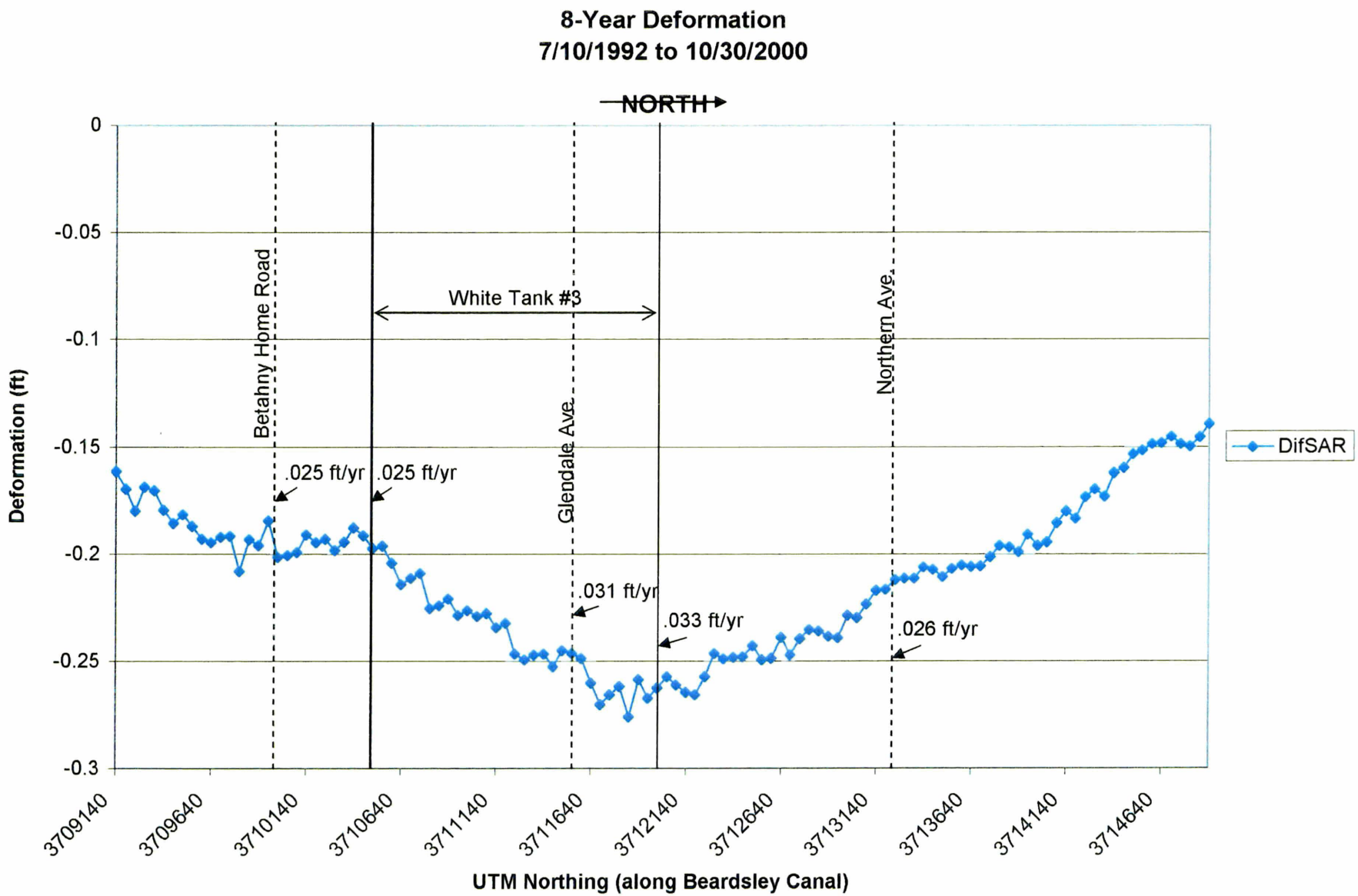

DifSAR deformation: 07/10/1992 to 10/30/2000 (5 cm/full fringe)
McMicken Dam
Whitetanks FRS #3
North Profile Line
East Profile Line

Figure 5

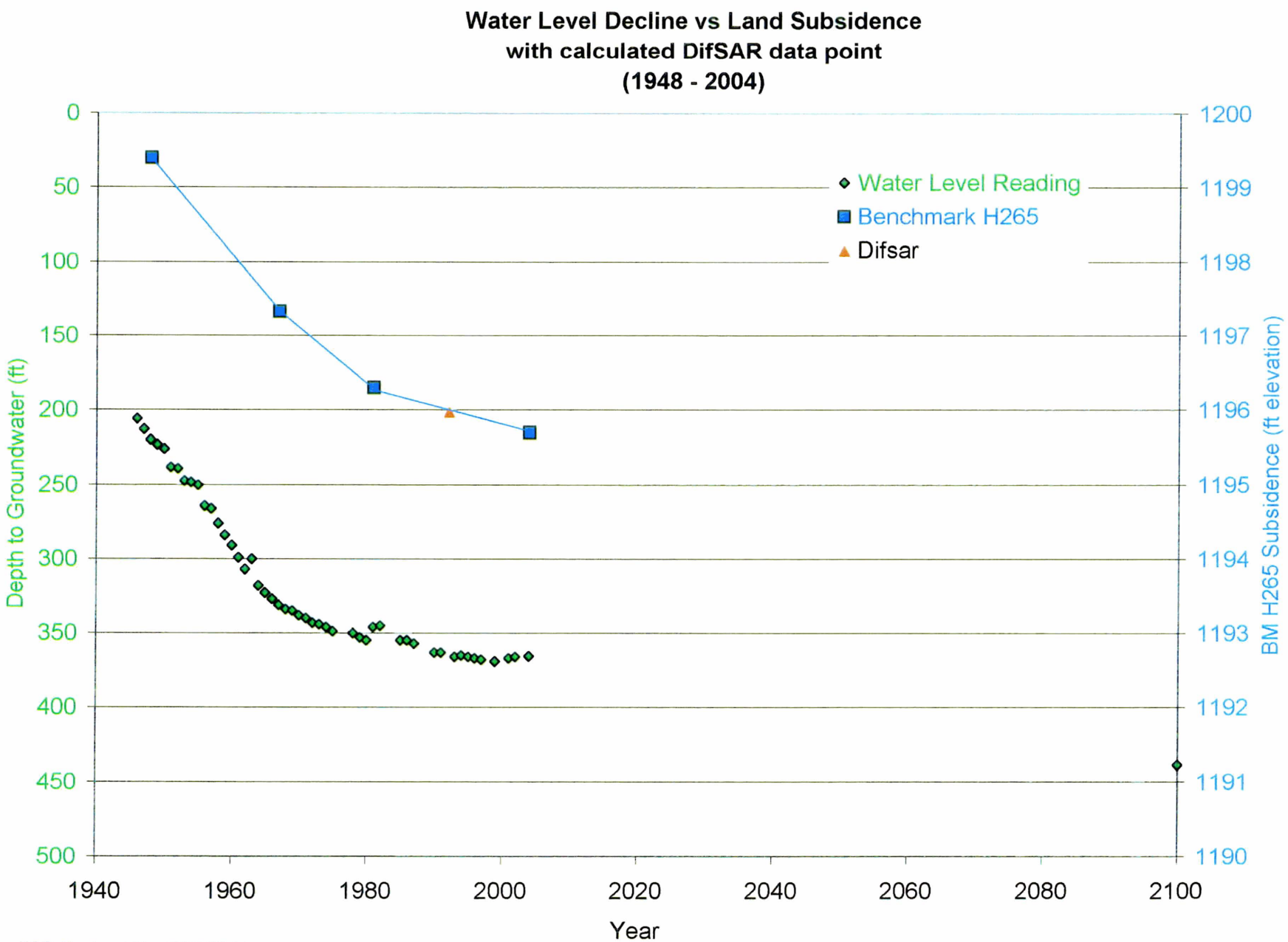


FCD Contract No. 2003C014
GCI Project No. 2003-162

Figure 6_8yr Deformation

Data from ADWR, 2004.

Figure 6



FCD Contract No. 2003C014
GCI Project No. 2003-162

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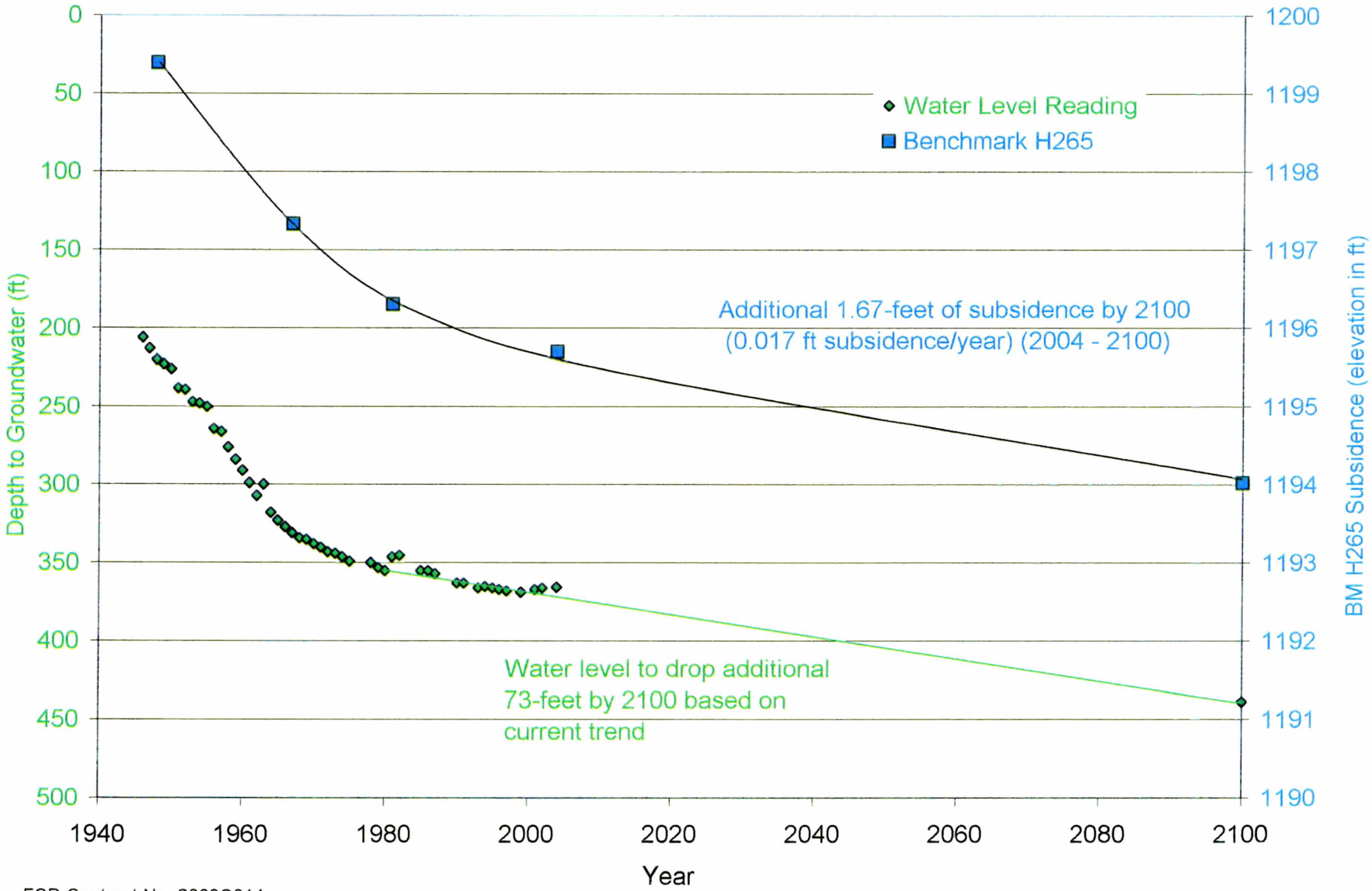
Figure 7

Water Level Decline vs Land Subsidence
Visual Extrapolation Curve



FCD Contract No. 2003C014
GCI Project No. 2003-162

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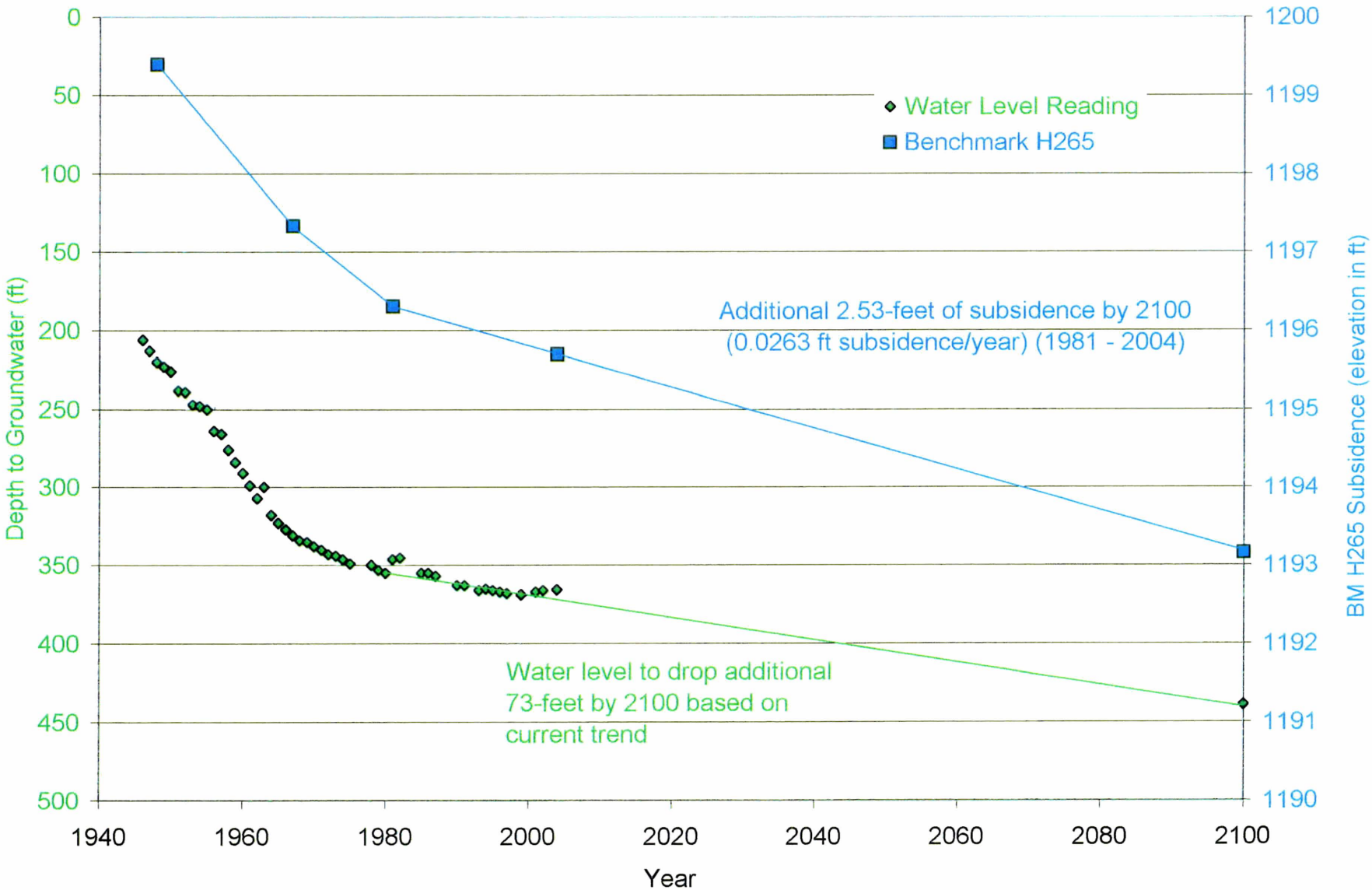
Figure 8

Water Level Decline vs Land Subsidence
Linear Trend Analysis



FCD Contract No. 2003C014
GCI Project No. 2003-162

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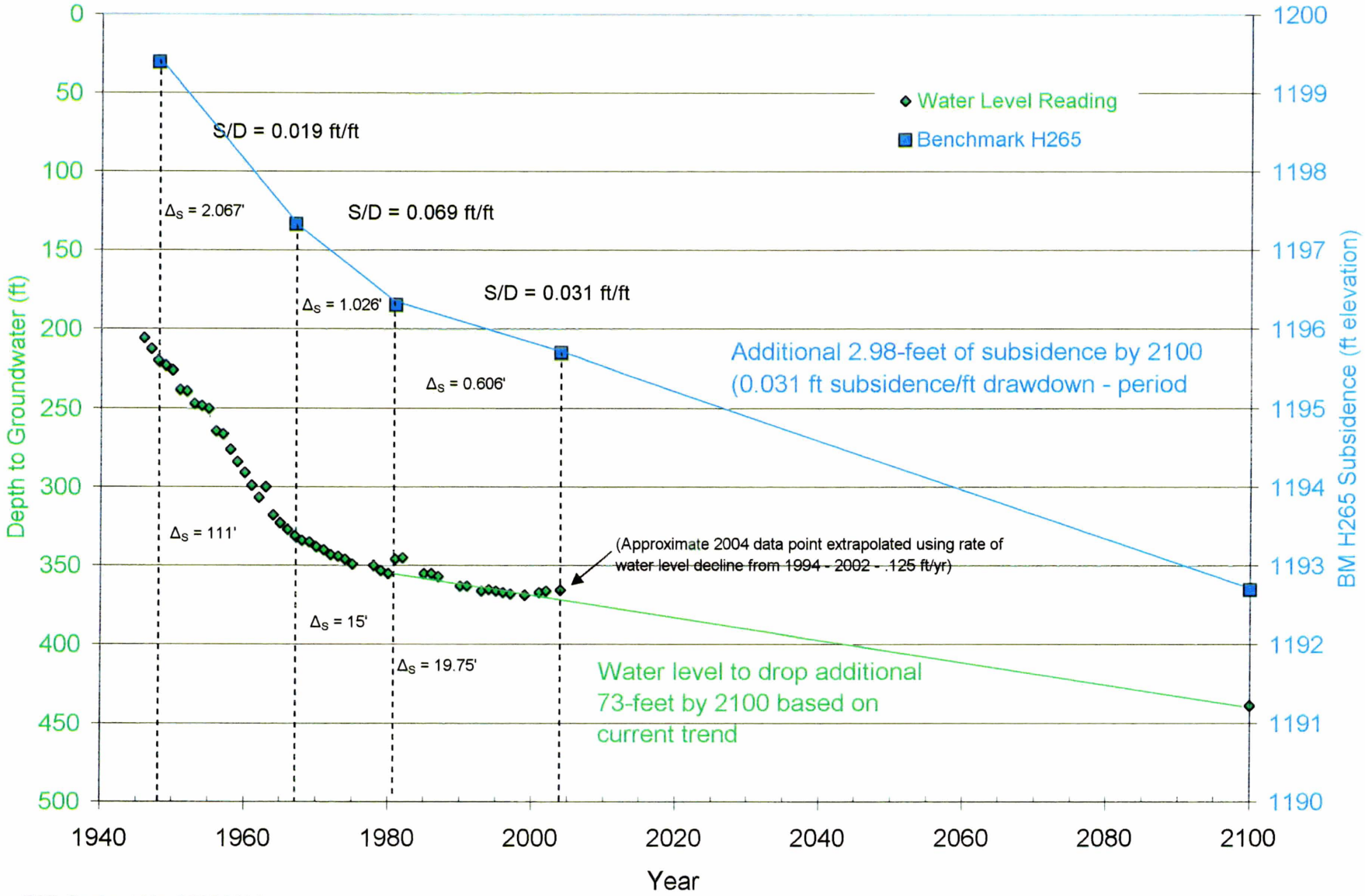
Figure 9

Water Level Decline vs Land Subsidence
Incremental Subsidence/Drawdown Rates



FCD Contract No. 2003C014
GCI Project No. 2003-162

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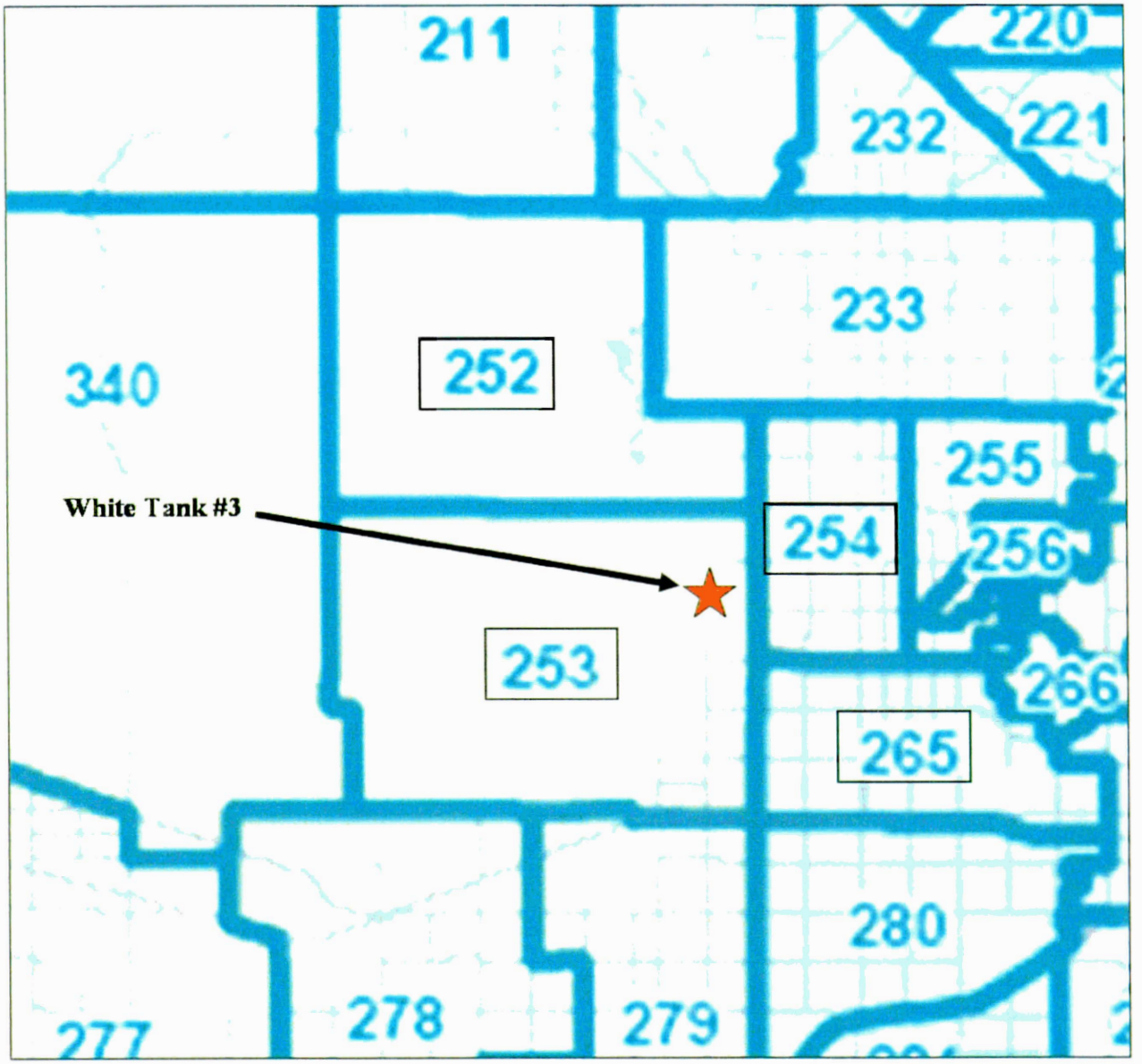
Figure 10



2003 Regional Analysis Zone (RAZ) Boundaries (Maricopa County only)

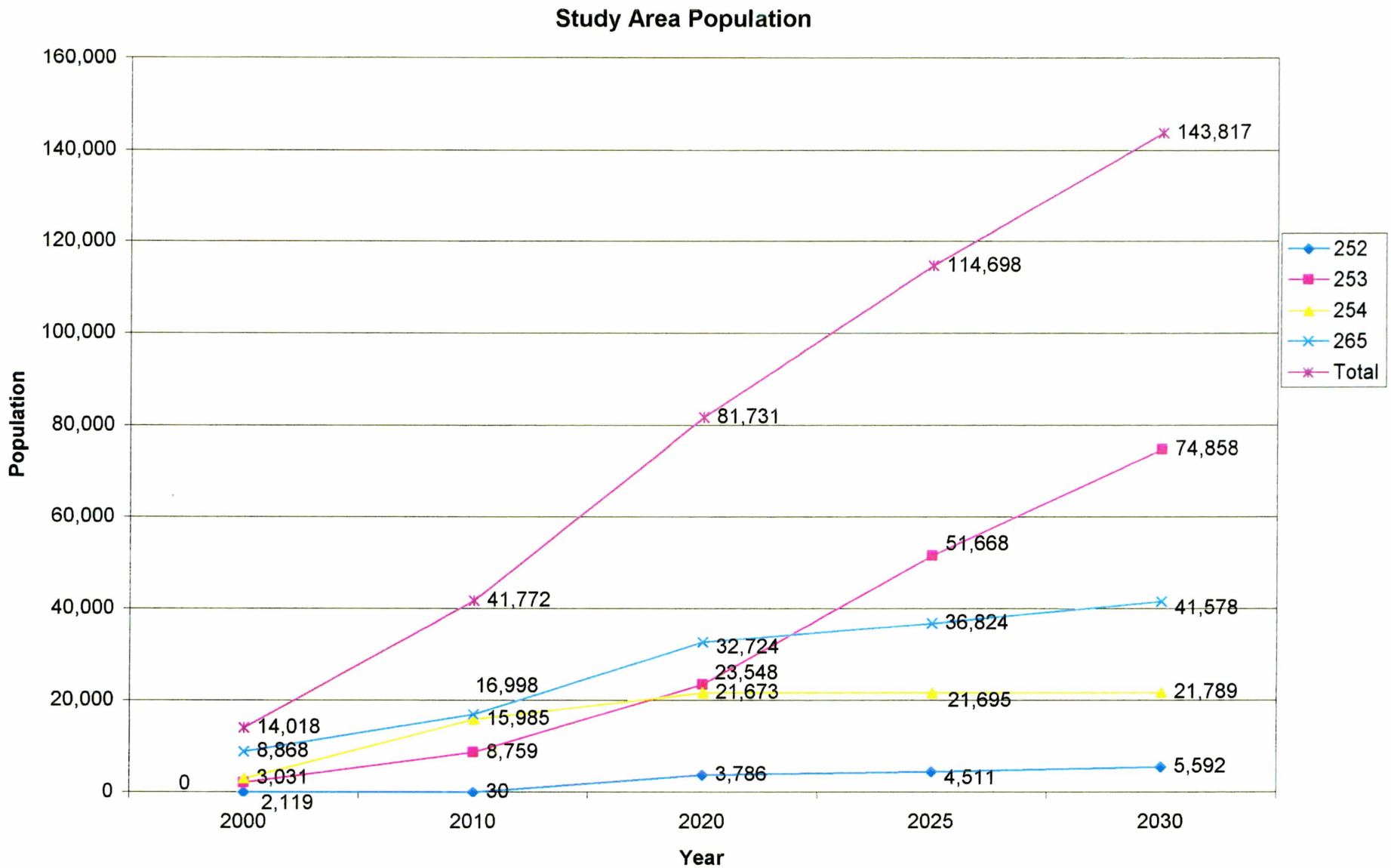
RAZ Boundaries

Maricopa County

Major Roads

County Areas are shown in white

Figure 11



Data Source: Maricopa Association of Governmants Resident Population and Housing by Regional Analysis Zone (RAZ)

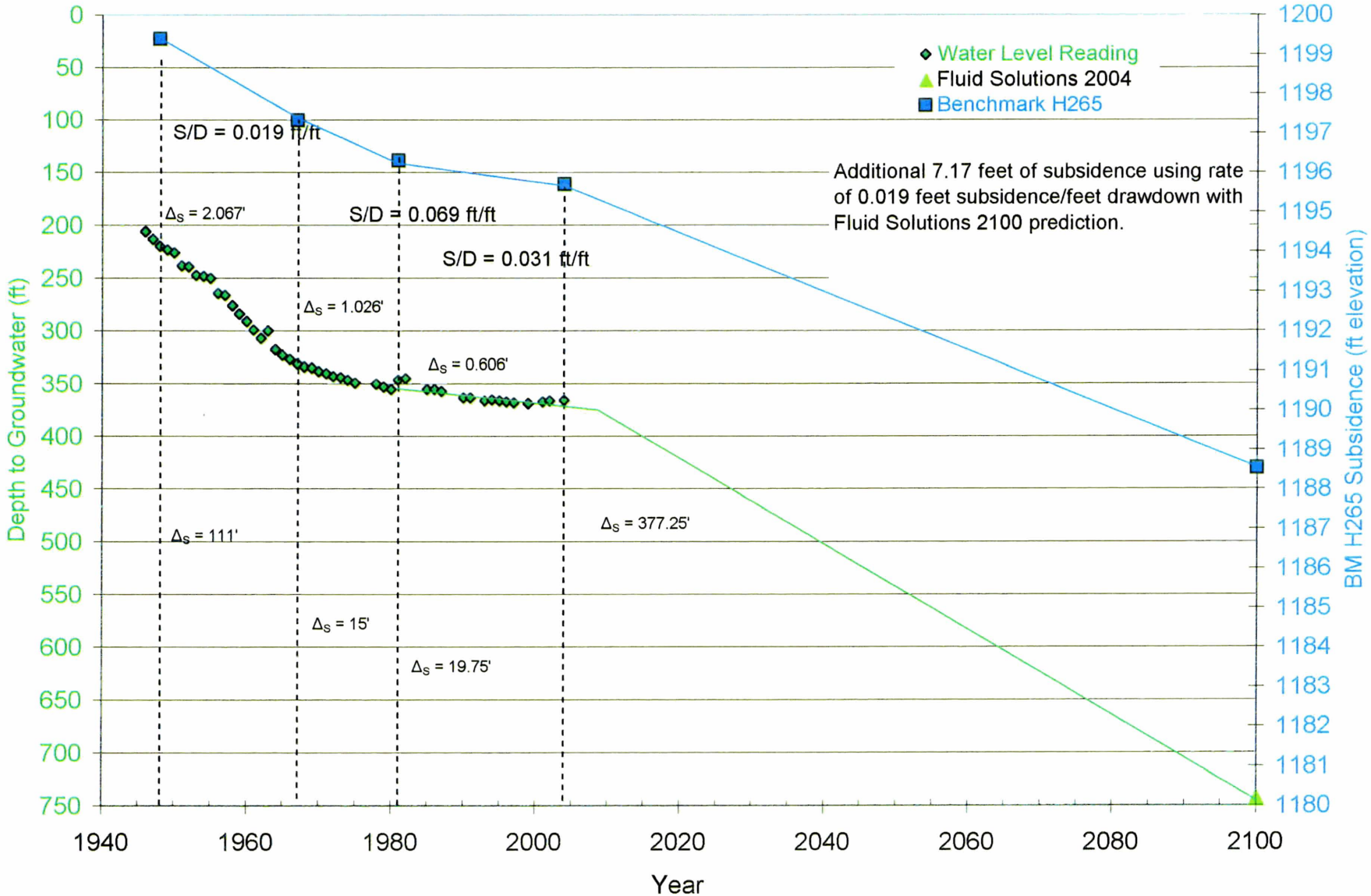
Figure 12

FCD Contract No. 2003C014
GCI Project No. 2003-162

Figure 12_Population

Figure 12

Water Level Decline vs Land Subsidence
Incremental Predicted Subsidence/Predicted Drawdown Rates



FCD Contract No. 2003C014
GCI Project No. 2003-162

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Figure 13

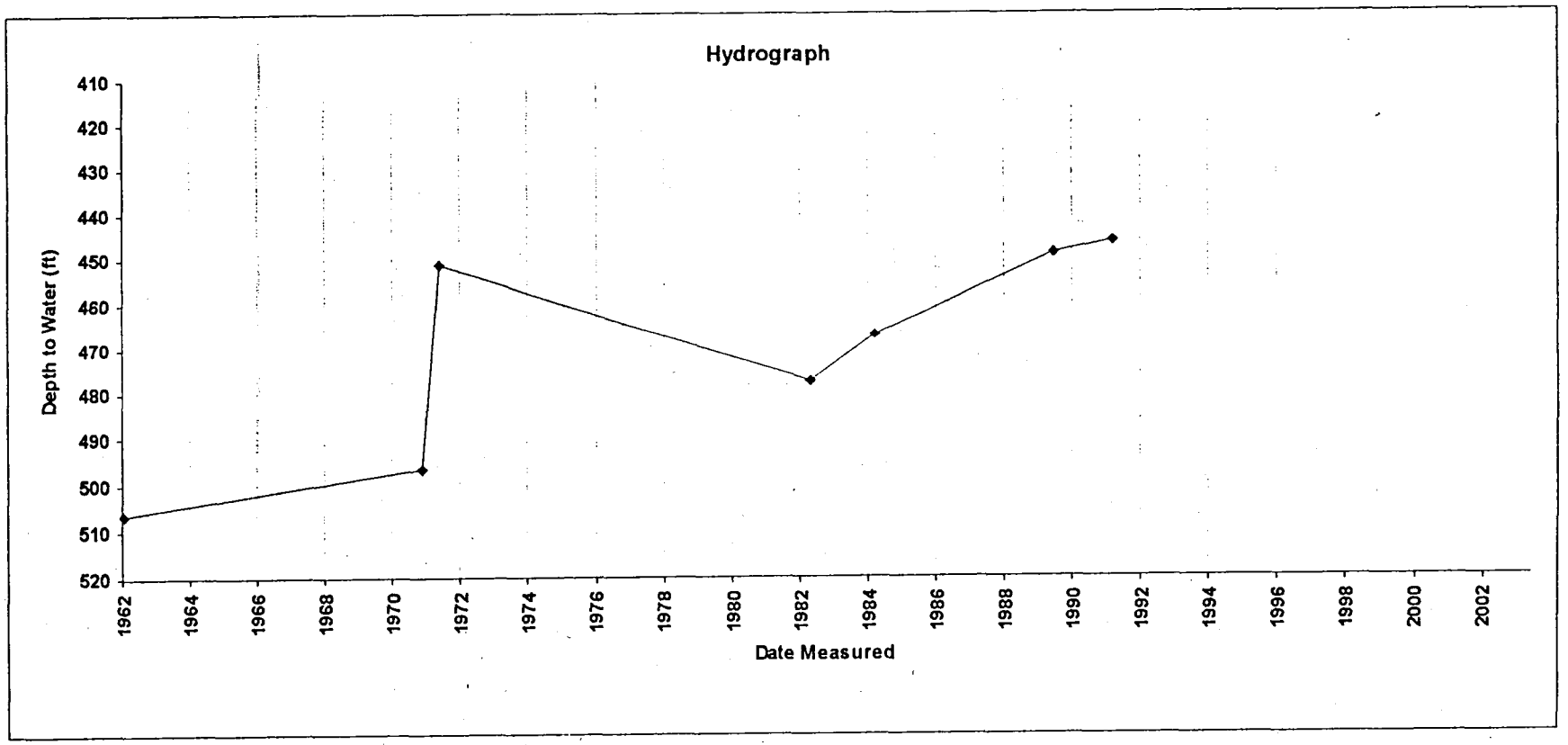
APPENDIX A

GWSI Well Reports and Hydrographs (ADWR, 2004)

GWSI Well Report and Hydrograph

AZ Dept of Water Resources

Local ID	Site ID	ADWR Reg. No.	Latitude	Longitude	Water Uses	Well Depth	Drill Date	Case Dia.	Latest WL Date	Depth to Water	WL Alt. above Mean Sea Level	Times Meas.
B-02-02 03BAA	333304112270701	601215	33° 33' 4"	112° 27' 7"	UNUSED	1204	1/1/1948	20	11/21/1991	446.20	761	7



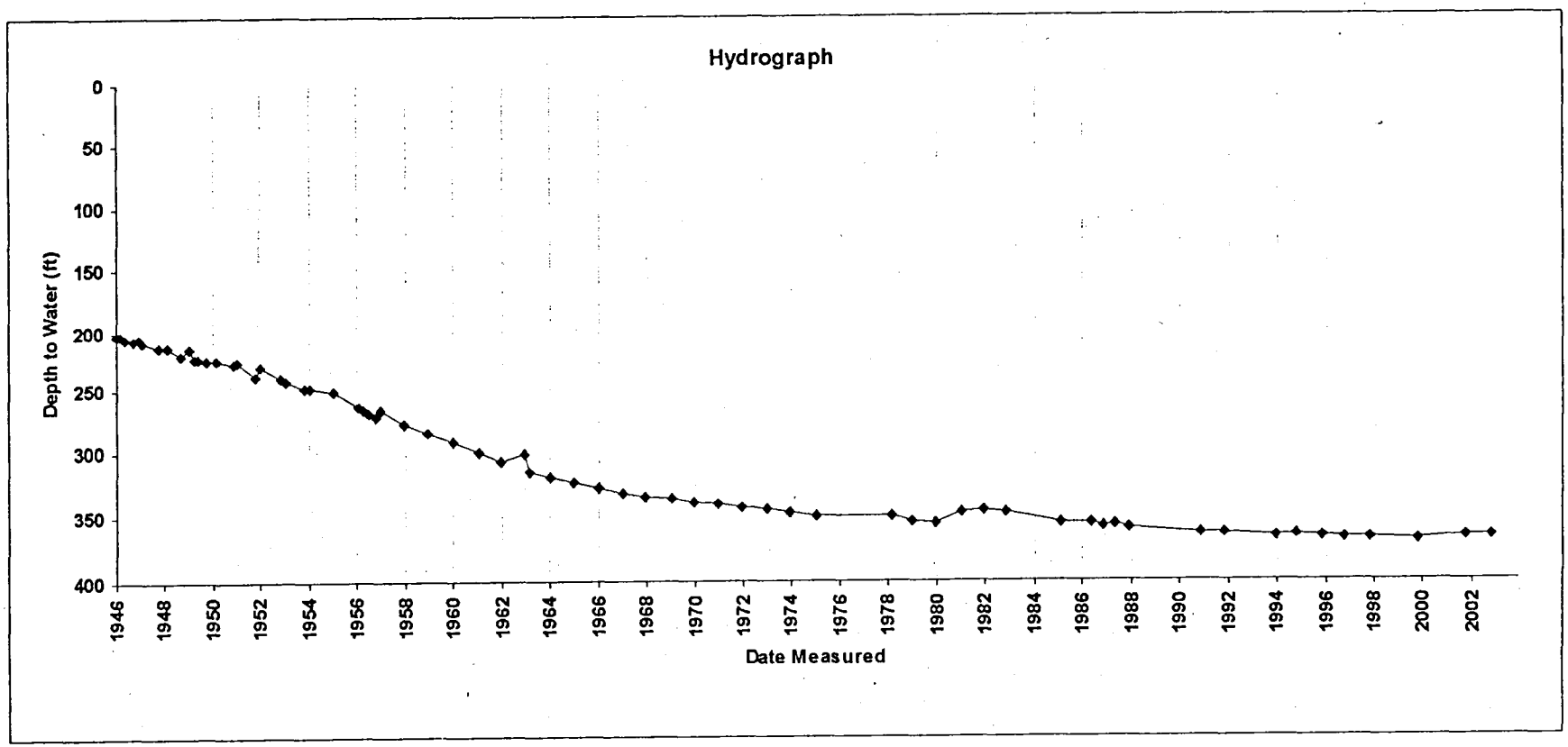
GWSI is ADWR's technical database of well locations, construction data, and water levels.

Thursday, March 04, 2004

GWSI Well Report and Hydrograph

AZ Dept of Water Resources

Local ID	Site ID	ADWR Reg. No.	Latitude	Longitude	Water Uses	Well Depth	Drill Date	Case Dia.	Latest WL Date	Depth to Water	WL Alt. above Mean Sea Level	Times Meas.
B-02-02 04DCB	333223112280901	612958	33° 32' 26.6''	112° 28' 11.5''	UNUSED	480	3/1/1939	20	11/26/2002	366.10	837.9	69



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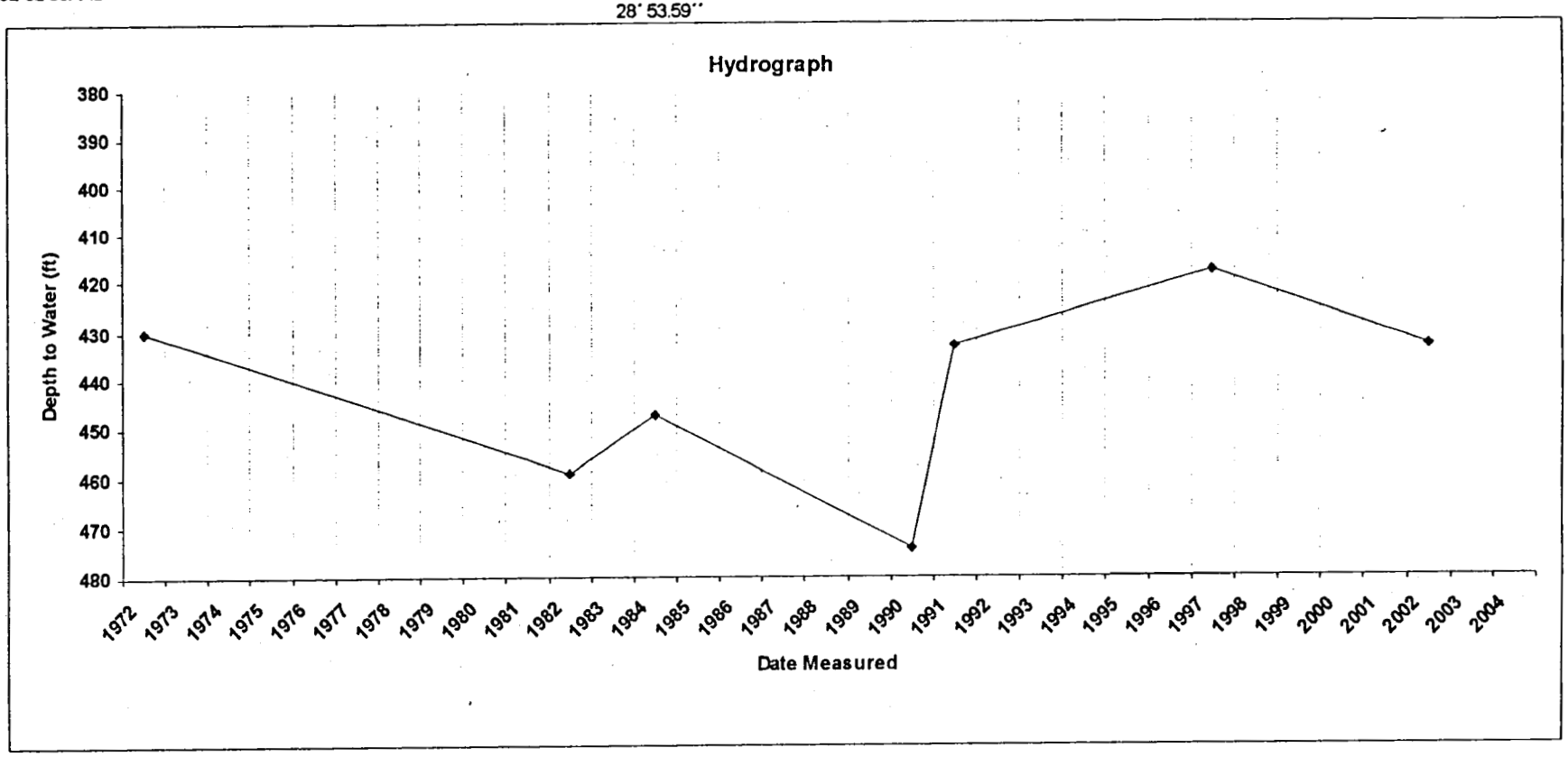
Thursday, March 04, 2004

GWSI Well Report and Hydrograph

AZ Dept of Water Resources

Local ID	Site ID	ADWR Reg. No.	Latitude	Longitude	Water Uses	Well Depth	Drill Date	Case Dia.	Latest WL Date	Depth to Water	WL Alt. above Mean Sea Level	Times Meas.
B-02-02 05AAB	333303112285301	614414	33° 33' 3''	112° 28' 53.59''	DOMESTIC	747	3/24/1960	12	11/21/2002	432.89	827.11	7



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Thursday, March 04, 2004

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AZ Dept of Water Resources

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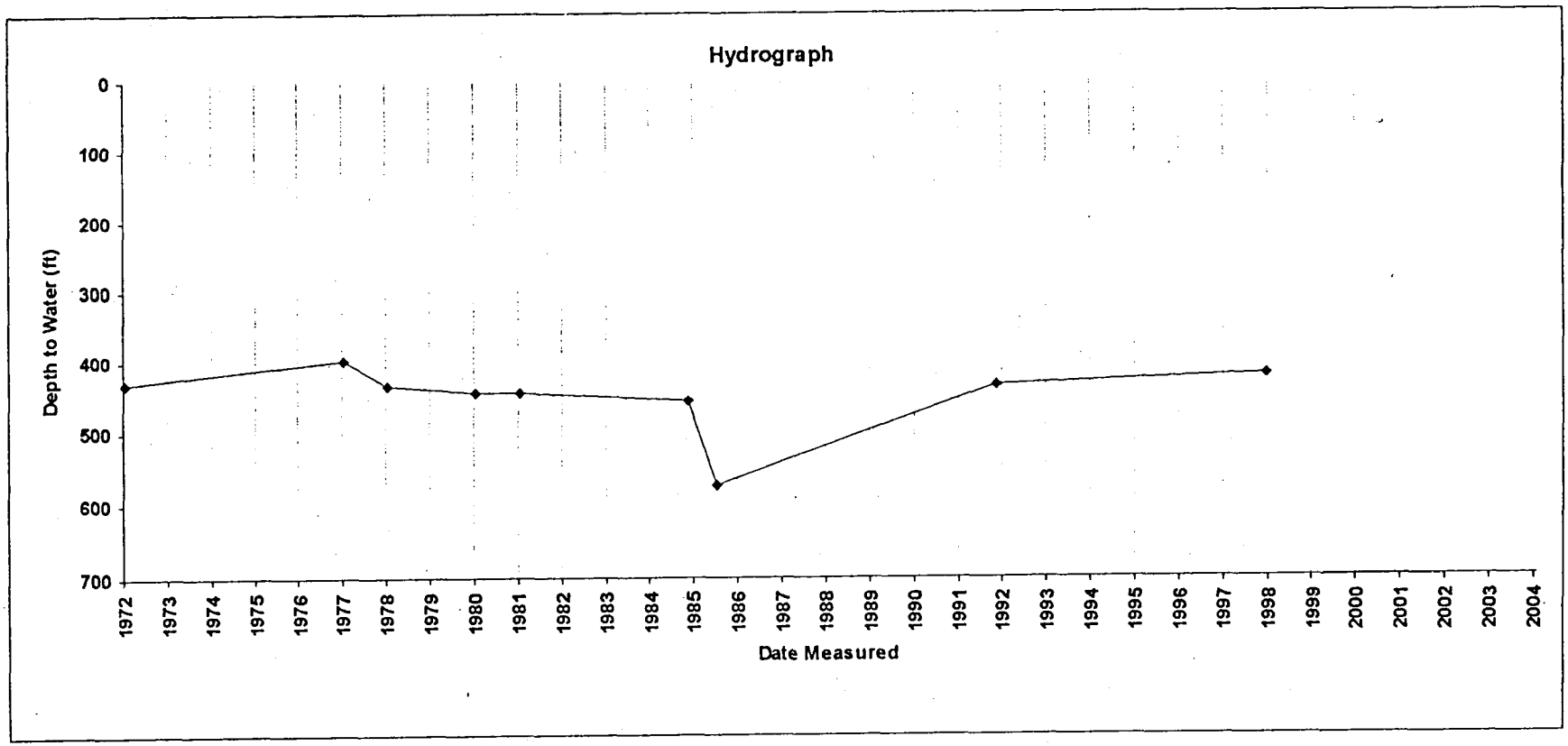
B-02-02 10BAA	333212112270901	613007	33° 32' 12"	112° 27' 9"	IRRIGATION	995	10/1/1958	20	12/1/1997	420.40	750	9



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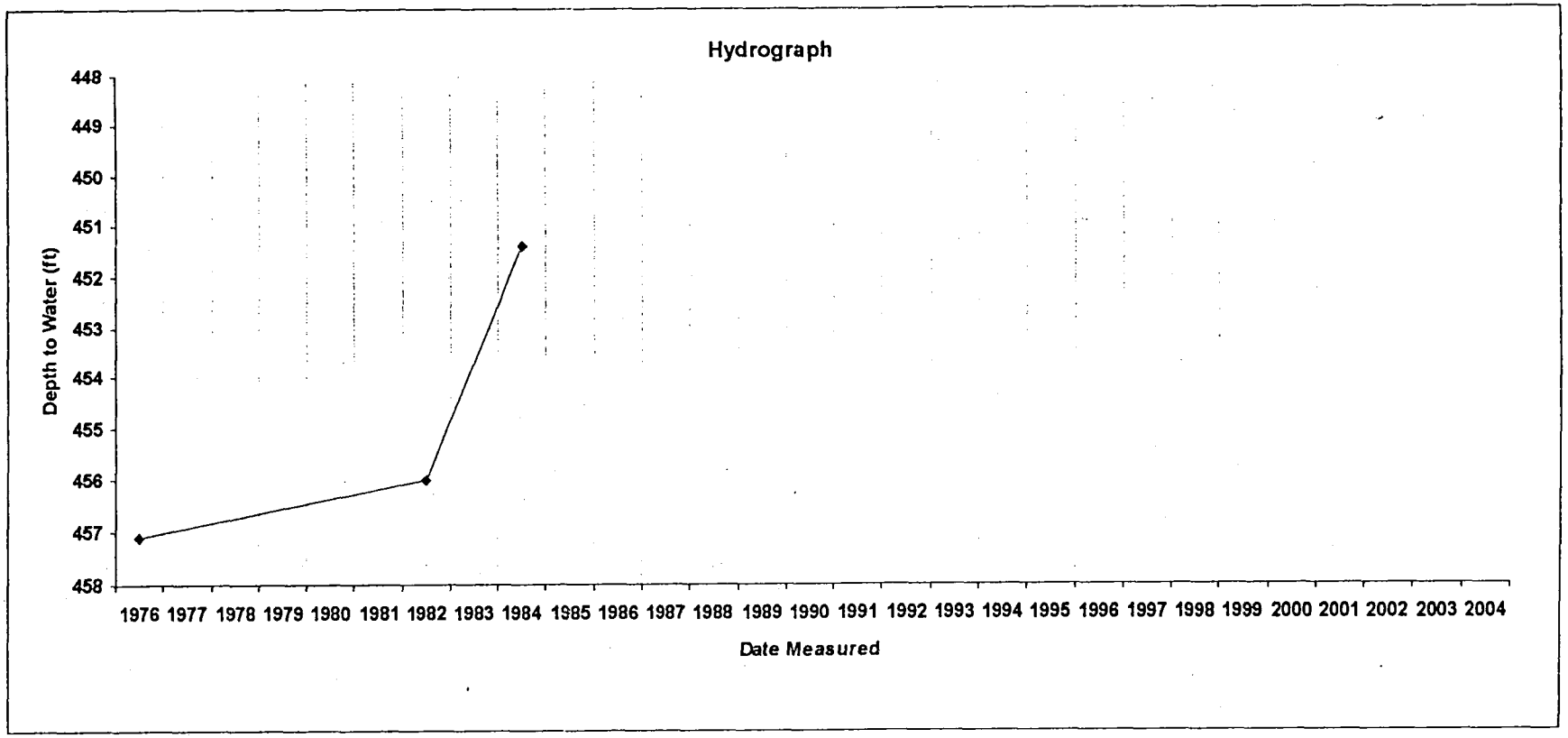
Thursday, March 04, 2004

GWSI Well Report and Hydrograph

AZ Dept of Water Resources

Local ID	Site ID	ADWR Reg. No.	Latitude	Longitude	Water Uses	Well Depth	Drill Date	Case Dia.	Latest WL Date	Depth to Water	WL Alt. above Mean Sea Level	Times Meas.
B-02-02 10BDA	333200112270701	612351	33° 32′ 0″	112° 27′ 7″	UNUSED	1000	2/8/1958	20	11/26/1984	451.40	717	3



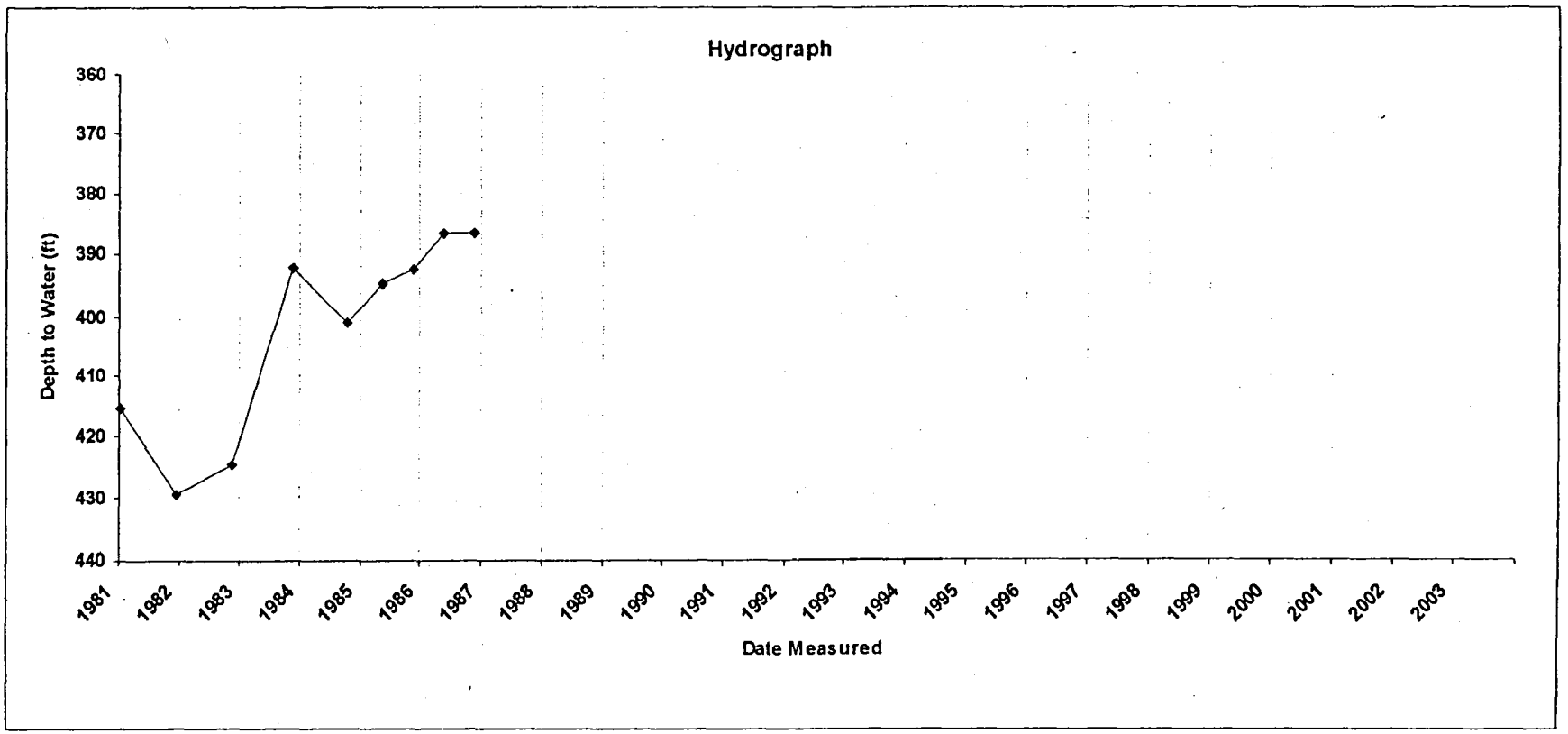
GWSI is ADWR's technical database of well locations, construction data, and water levels.

Thursday, March 04, 2004

GWSI Well Report and Hydrograph

AZ Dept of Water Resources

Local ID	Site ID	ADWR Reg. No.	Latitude	Longitude	Water Uses	Well Depth	Drill Date	Case Dia.	Latest WL Date	Depth to Water	WL Alt. above Mean Sea Level	Times Meas.
B-02-02 10CCB	333125112273401	612352	33° 31' 29"	112° 27' 37"	UNUSED	2290	5/1/1963	20	12/5/1986	386.60	771	9



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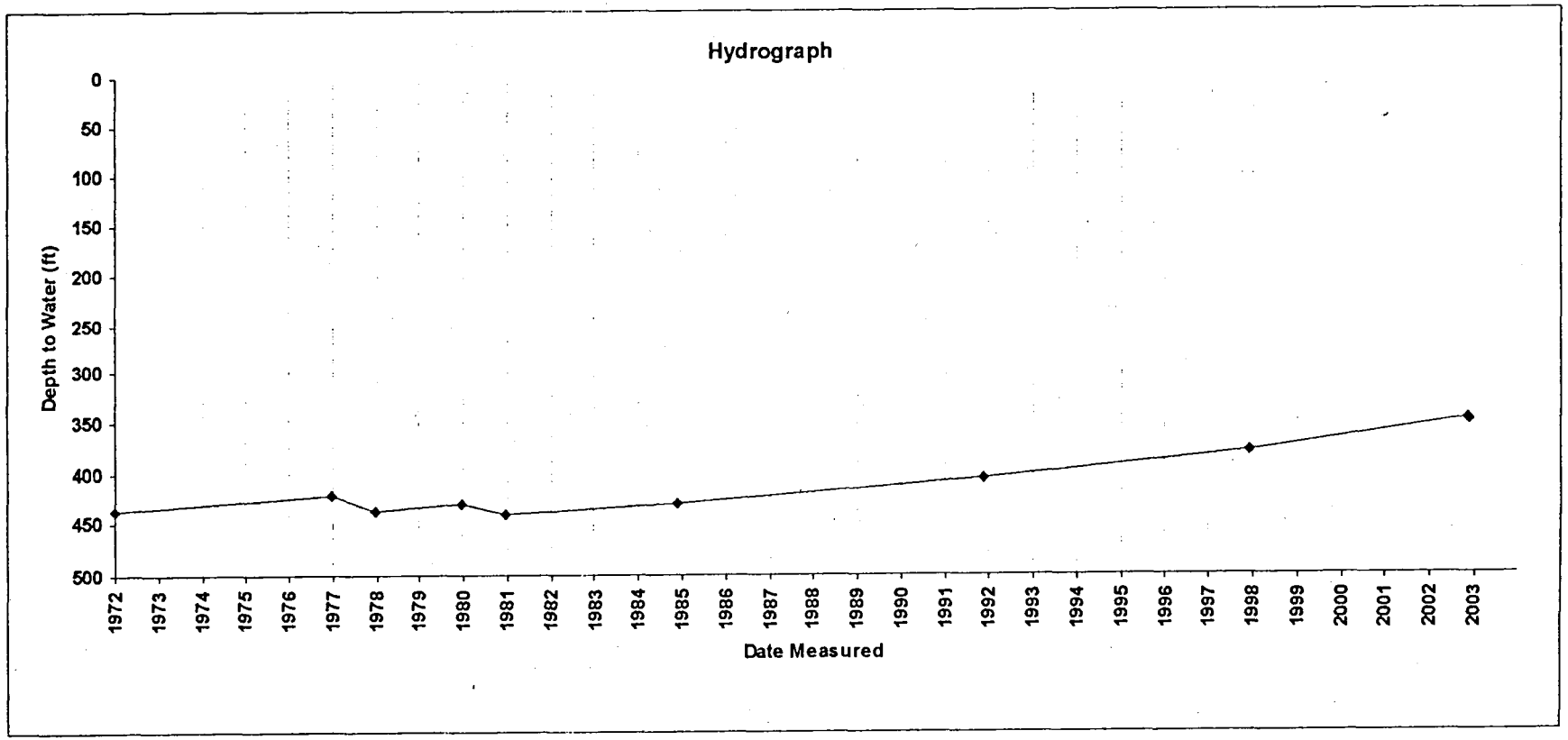
Thursday, March 04, 2004

GWSI Well Report and Hydrograph

AZ Dept of Water Resources

Local ID	Site ID	ADWR Reg. No.	Latitude	Longitude	Water Uses	Well Depth	Drill Date	Case Dia.	Latest WL Date	Depth to Water	WL Alt. above Mean Sea Level	Times Meas.
B-02-02 10DCC	333123112270501	613009	33° 31' 22.39"	112° 27' 9.3"	UNUSED	1000	9/1/1959	20	11/26/2002	349.79	795.21	10



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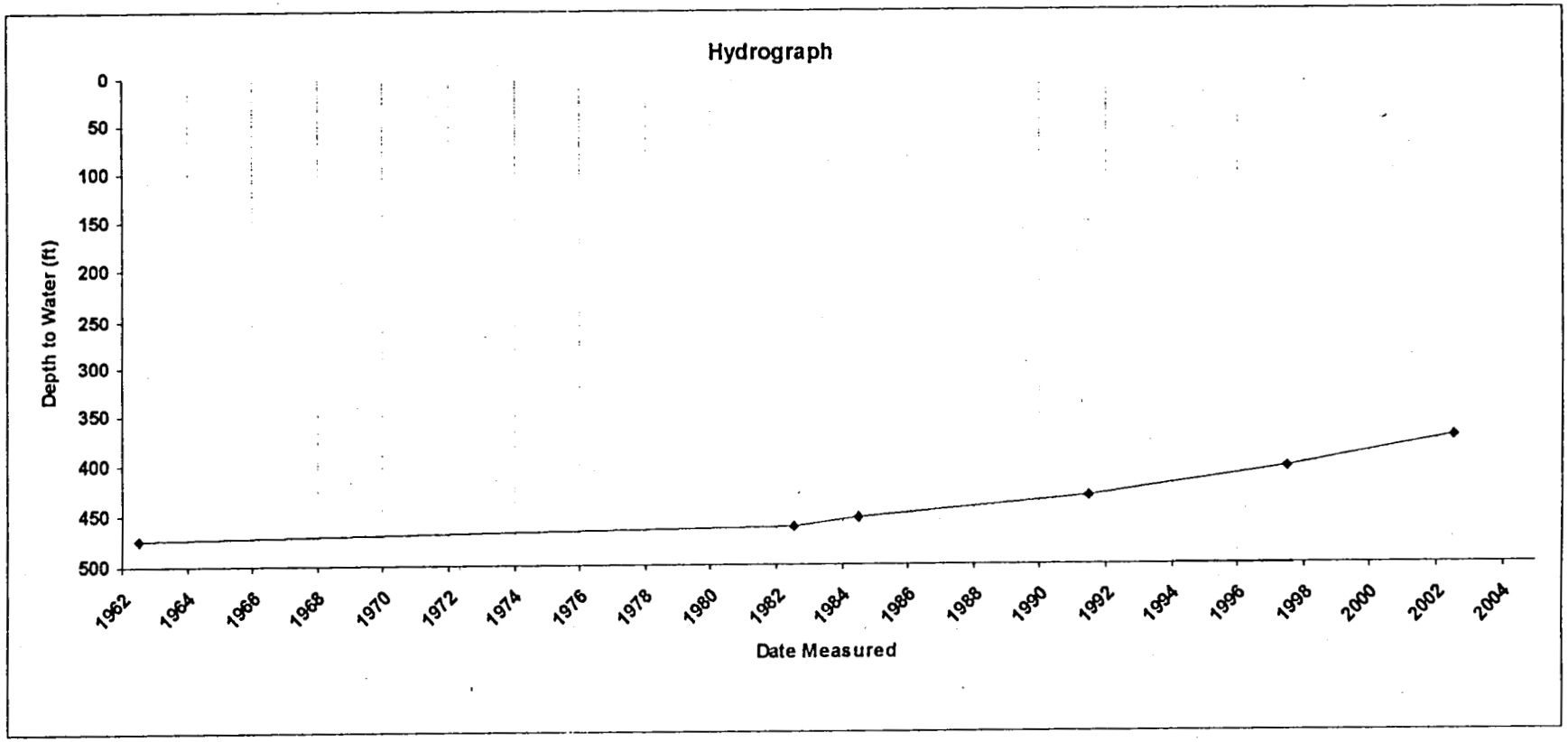
Thursday, March 04, 2004

GWSI Well Report and Hydrograph

AZ Dept of Water Resources

Local ID	Site ID	ADWR Reg. No.	Latitude	Longitude	Water Uses	Well Depth	Drill Date	Case Dia.	Latest WL Date	Depth to Water	WL Alt. above Mean Sea Level	Times Meas.
B-02-02 11BBB	333213112263301	610070	33° 32' 13.19"	112° 26' 34.4"	UNUSED	880	3/19/1949	20	11/27/2002	372.89	786.11	6



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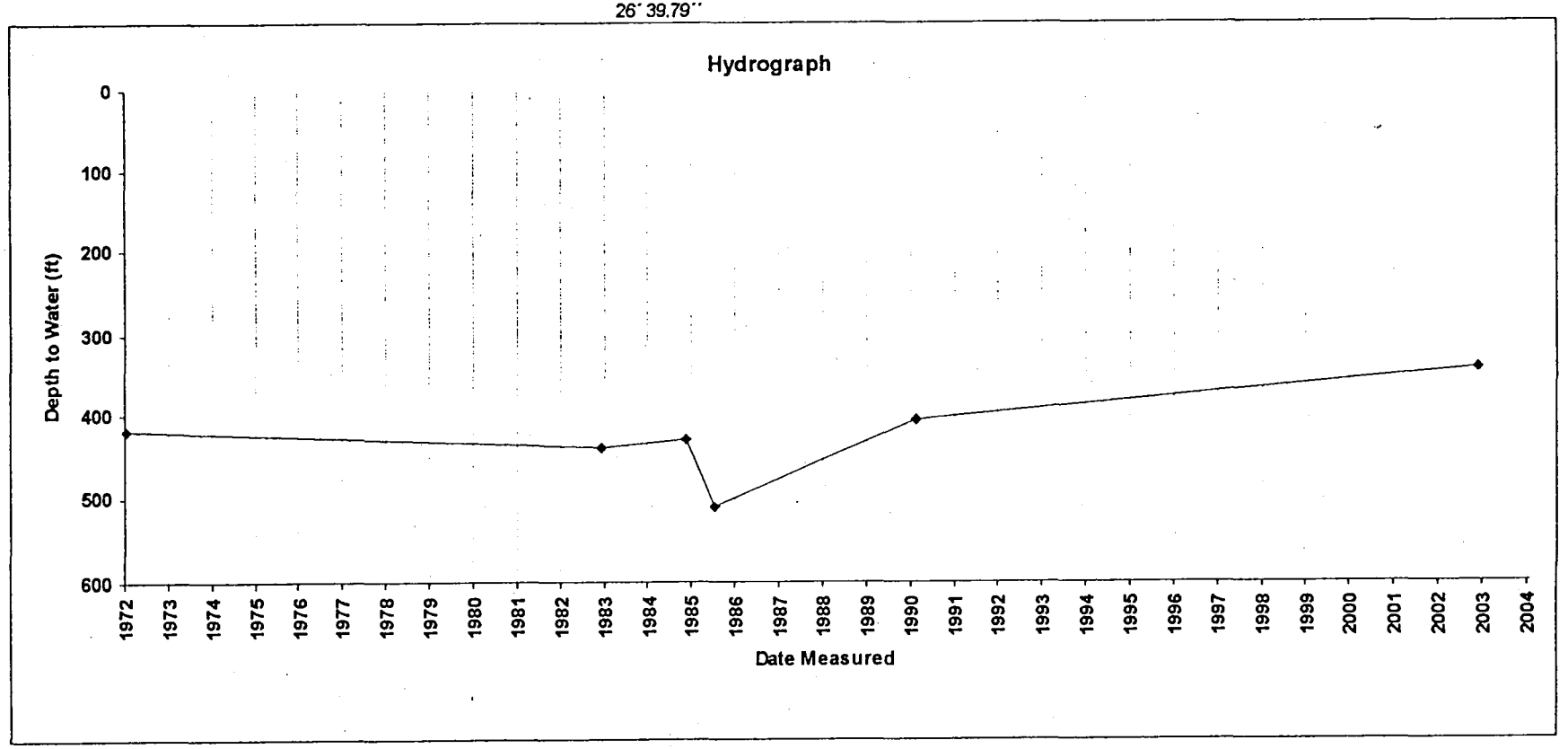
Thursday, March 04, 2004

GWSI Well Report and Hydrograph

AZ Dept of Water Resources

Local ID	Site ID	ADWR Reg. No.	Latitude	Longitude	Water Uses	Well Depth	Drill Date	Case Dia.	Latest WL Date	Depth to Water	WL Alt. above Mean Sea Level	Times Meas.
B-02-02 15AAA	333120112263701	613010	33° 31' 21.2''	112° 26' 39.79''	IRRIGATION	1000	7/23/1961	20	11/26/2002	342.70	789.3	6



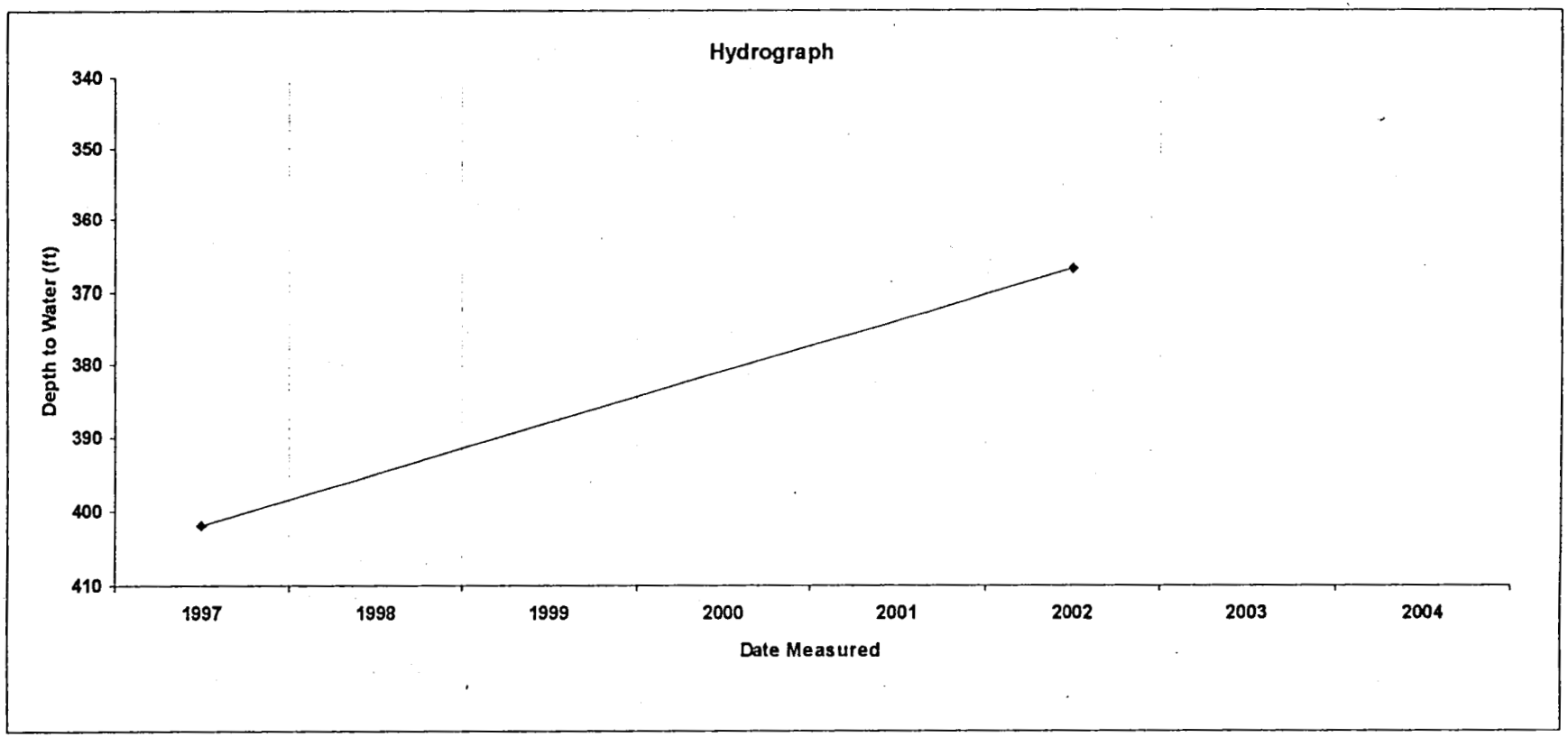
GWSI is ADWR's technical database of well locations, construction data, and water levels.

Thursday, March 04, 2004

GWSI Well Report and Hydrograph

AZ Dept of Water Resources

Local ID	Site ID	ADWR Reg. No.	Latitude	Longitude	Water Uses	Well Depth	Drill Date	Case Dia.	Latest WL Date	Depth to Water	WL Alt. above Mean Sea Level	Times Meas.
B-02-02 16ABB	333118112283701	562643	33° 31' 18.39"	112° 28' 8.1"	UNUSED	0		10	11/26/2002	366.80	805.2	2



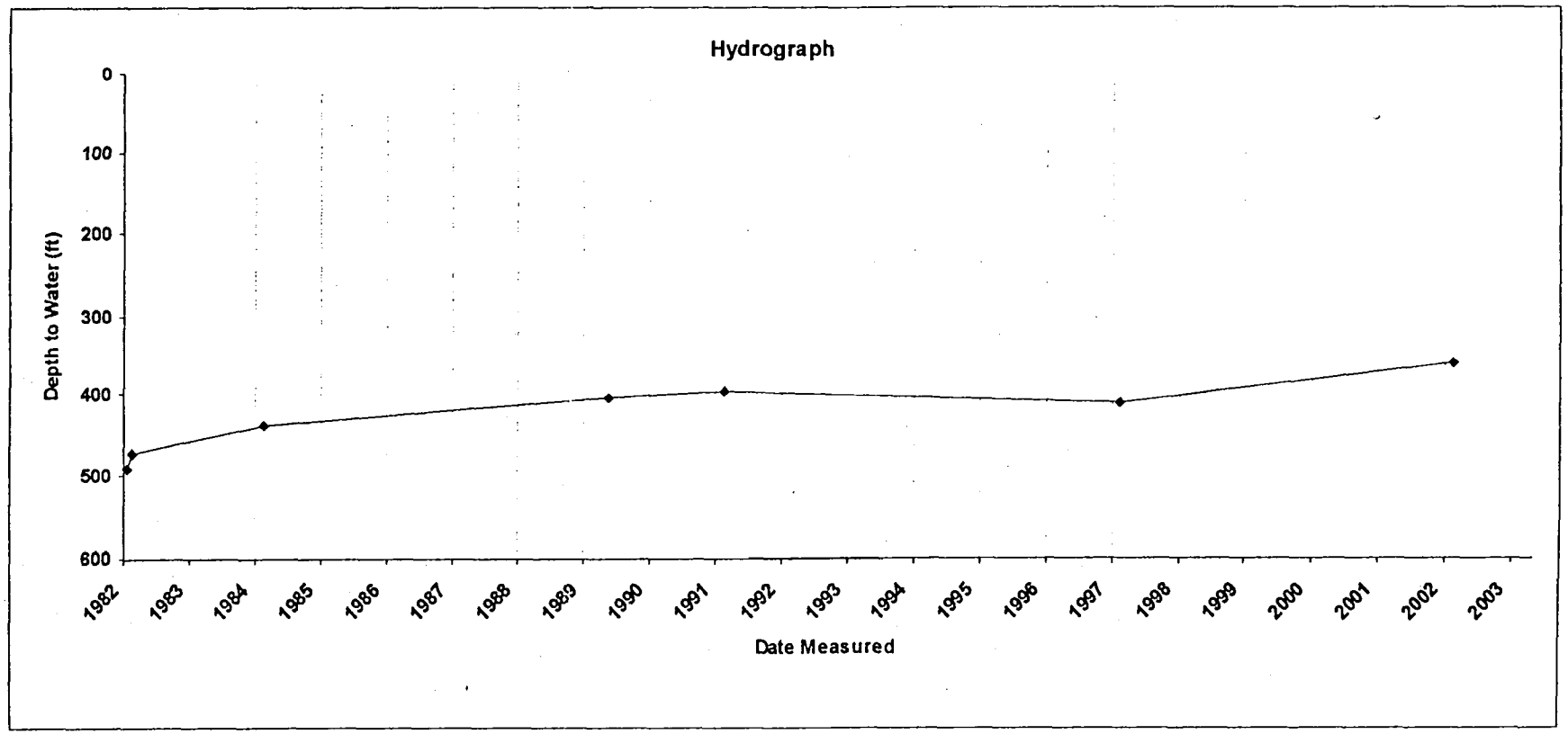
GWSI is ADWR's technical database of well locations, construction data, and water levels.

Thursday, March 04, 2004

GWSI Well Report and Hydrograph

AZ Dept of Water Resources

Local ID	Site ID	ADWR Reg. No.	Latitude	Longitude	Water Uses	Well Depth	Drill Date	Case Dia.	Latest WL Date	Depth to Water	WL Alt. above Mean Sea Level	Times Meas.
B-02-02 17DDD	333031112284301		33° 30' 34"	112° 28' 44.7"	UNUSED	966	5/1/1967	8	11/20/2002	360.10	829.9	7



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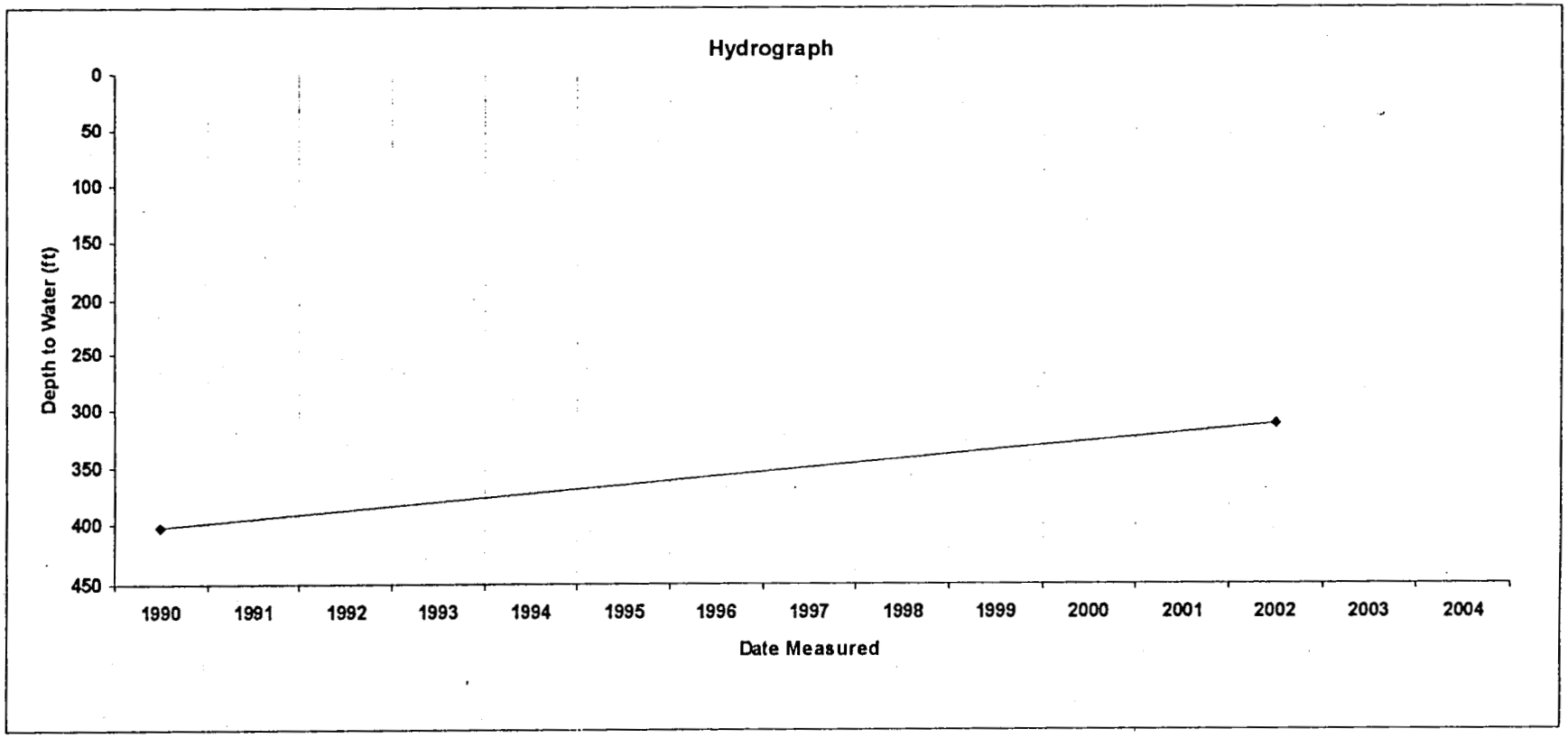
Thursday, March 04, 2004

GWSI Well Report and Hydrograph

AZ Dept of Water Resources

Local ID	Site ID	ADWR Reg. No.	Latitude	Longitude	Water Uses	Well Depth	Drill Date	Case Dia.	Latest WL Date	Depth to Water	WL Alt. above Mean Sea Level	Times Meas.
B-02-02 21BDD	333006112281101	617618	33° 30′ 6″	112° 28′ 11″	INDUSTRIAL				11/20/2002	311.70	833.3	2



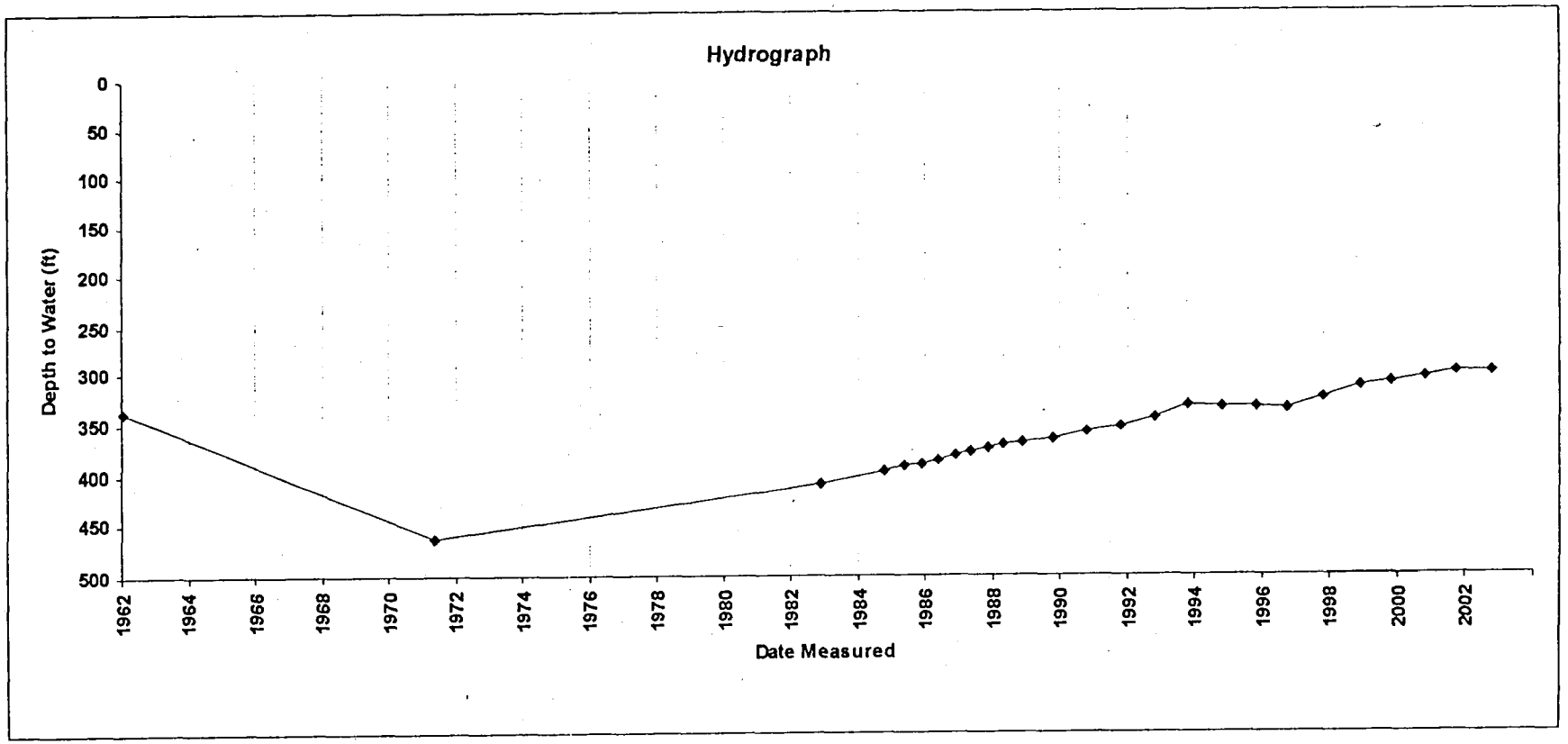
GWSI is ADWR's technical database of well locations, construction data, and water levels.

Thursday, March 04, 2004

GWSI Well Report and Hydrograph

AZ Dept of Water Resources

Local ID	Site ID	ADWR Reg. No.	Latitude	Longitude	Water Uses	Well Depth	Drill Date	Case Dia.	Latest WL Date	Depth to Water	WL Alt. above Mean Sea Level	Times Meas.
B-02-02 22ABB	333028112270701	612055	33° 30' 28.79"	112° 27' 9.69"	UNUSED	1340	5/22/1951	20	11/20/2002	299.29	819.71	26



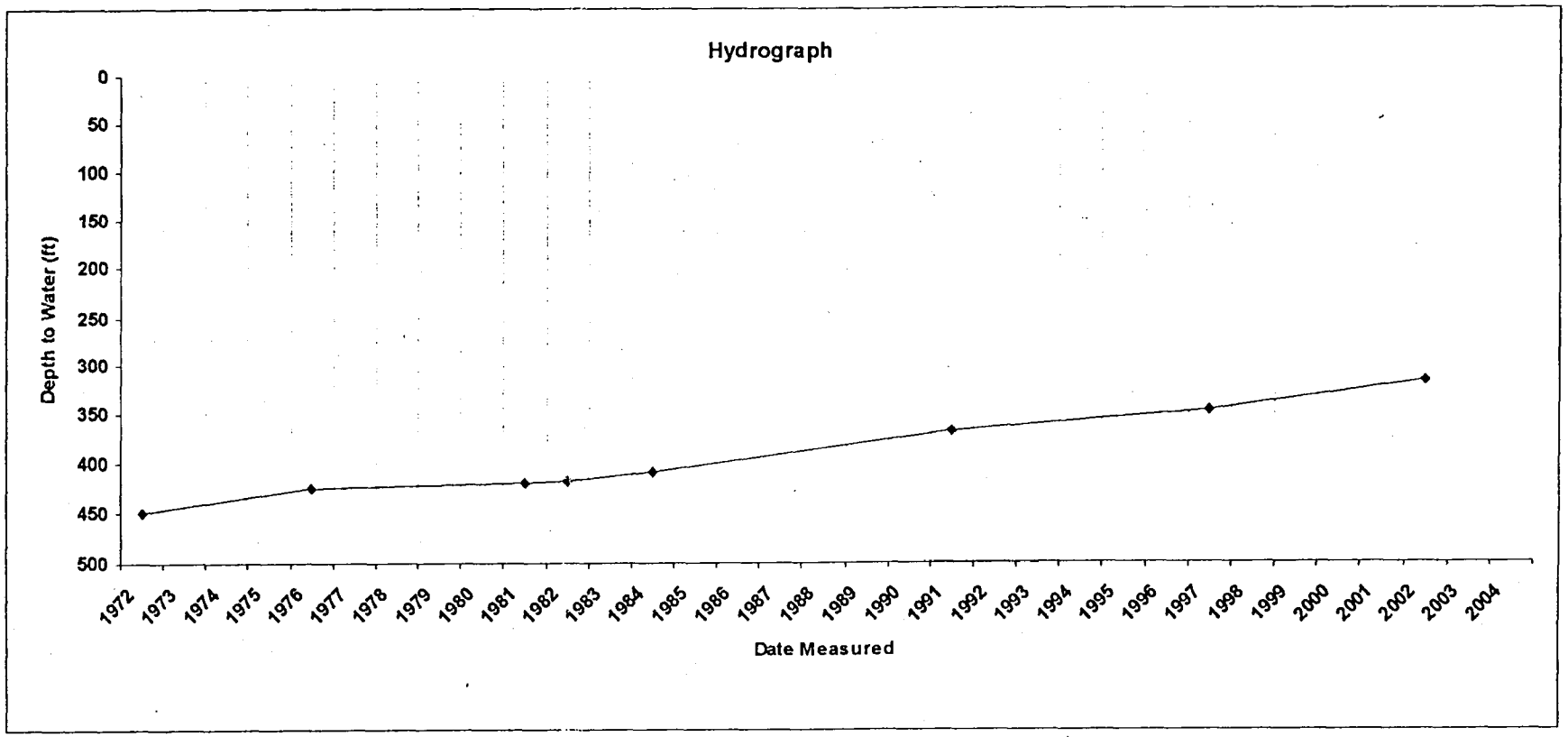
GWSI is ADWR's technical database of well locations, construction data, and water levels.

Thursday, March 04, 2004

GWSI Well Report and Hydrograph

AZ Dept of Water Resources

Local ID	Site ID	ADWR Reg. No.	Latitude	Longitude	Water Uses	Well Depth	Drill Date	Case Dia.	Latest WL Date	Depth to Water	WL Alt. above Mean Sea Level	Times Meas.
B-02-02 22BBB	333028112273701	612054	33° 30' 28.7"	112° 27' 40.4"	IRRIGATION	1194	5/1/1951	20	11/20/2002	316.79	815.21	8



GWSI is ADWR's technical database of well locations, construction data, and water levels.

Thursday, March 04, 2004

EXHIBIT 4.7-2

CALCULATION COVER SHEET

Client: _____

Project Name: White Tanks FRS No. 3

Project/Calculation Number: 23443748.00312

Title: Subsidence Analysis

Total Number of Pages (including cover sheet): _____

Total Number of Computer Runs: 8

Prepared By: Christina Winckler CCW **Date:** 8/18/2004

Checked By: LSG **Date:** 8/26/04

Description and Purpose

- To fit subsidence curve to observed subsidence of bench mark BM H265 using computer software Consol 3.0.
- To find subsidence values after water table has reduced 100, 200, and 300 feet from value observed in 2004.

Design Basis/References/Assumptions

As noted on page 2.

Remarks/Conclusions/Results

As noted on page 2.

Calculation Approved By: _____

Project Manager/Date

Revision No.:	Revision Description:	Approved By:

Project Manager/Date

Design Basis and Assumptions

- Model analyzed is 1,110 feet. The model was divided into 50-foot thick layers.
- Groundwater assumed at -220 feet.
- Subsidence is due to the lowering of groundwater table. Lowered levels analyzed are: -220, -260, -300, -331, -346, -366, -400, -466, -500, -566, -600 and -666 feet.
- Unit weight of soil assumed to be 122 pcf below water table, 110 pcf above the water table, and void ratio 0.37.

Given

- Observed subsidence of benchmark BM H265 as presented on page 3.

Method

- Computer software Consol 3.0 by Duncan et. Al, June 2003.
- Effective stress used as input is program is calculated as shown on spread sheets on pages 4 and 5.
- No consolidation properties are known. All properties were iteratively found using the computer software. By changing OCR, Cv and Cr results were matched to observed subsidence of bench mark BM H265.
- The upper and lower bound were created assuming more consolidation properties in the lower bound to get a different shape of the curve.
- Output files are presented in Appendix A. (Note several runs had to be made to get all points shown on graph. Program crashed if too many points were analyzed.)

Results

Graph presented on page 6 and Table on p. 7 shows the upper and lower bound of estimated subsidence. The following table shows the values that were assumed to create these curves:

	Upper Bound	Lower Bound
OCR	1.19	1.22 for depth <350 feet and 1.19 for depth >350 feet
C_{c1}	0.29	0.4
C_{c2}	0.19	0.39
C_{c3}	N/A	0.12
C_{c4}	N/A	0.04
C_{r1}	0.03	0.04
C_{r2}	N/A	0.039
C_{r3}	N/A	0.012
C_{r4}	N/A	0.004

The following table presents the subsidence results when the water table is lowered by 100, 200, and 300 feet from observed level in 2004.

Lowering of ground water table, feet	Estimated Subsidence, feet
100	2.9 – 4.3
200	4.4 – 7.4
300	5.1 – 9.5

Year	depth to water
1946	206
1947	213
1948	220
1949	223
1950	226
1951	238
1952	239
1953	247
1954	248
1955	250
1956	264
1957	266
1958	276
1959	284
1960	291
1961	299
1962	307
1963	300
1964	318
1965	323
1966	327
1967	331
1968	334
1969	335
1970	338
1971	340
1972	343
1973	344
1974	346
1975	349
1978	350
1979	353
1980	355
1981	346
1982	345
1985	355
1986	355
1987	357
1990	363
1991	363
1993	366
1994	365
1995	366
1996	367
1997	368
1999	369
2001	367
2002	366

Benchmark Designation	1948* Elevation (ft)	1967* Elevation (ft)	1981* Elevation (ft)	2004** Elevation (ft)
F265	1149.19	1147.03	1146.57	No Data
G265	1168.46	1167.02	1166.72	No Data
H265	1199.39	1197.33	1196.3	1195.69
J265	1231.54	1230.17	1229.16	1228.73
K265	1277.73	1276.52	1275.6	1275.26
L265	1306.68	1305.11	1302.75	No Data

Unit Weight above water table: 110 pcf
Unit Weight below water table: 122 pcf

Water Table: 220 feet

OCR above Water Table: 1.22
OCR below Water Table: 1.22

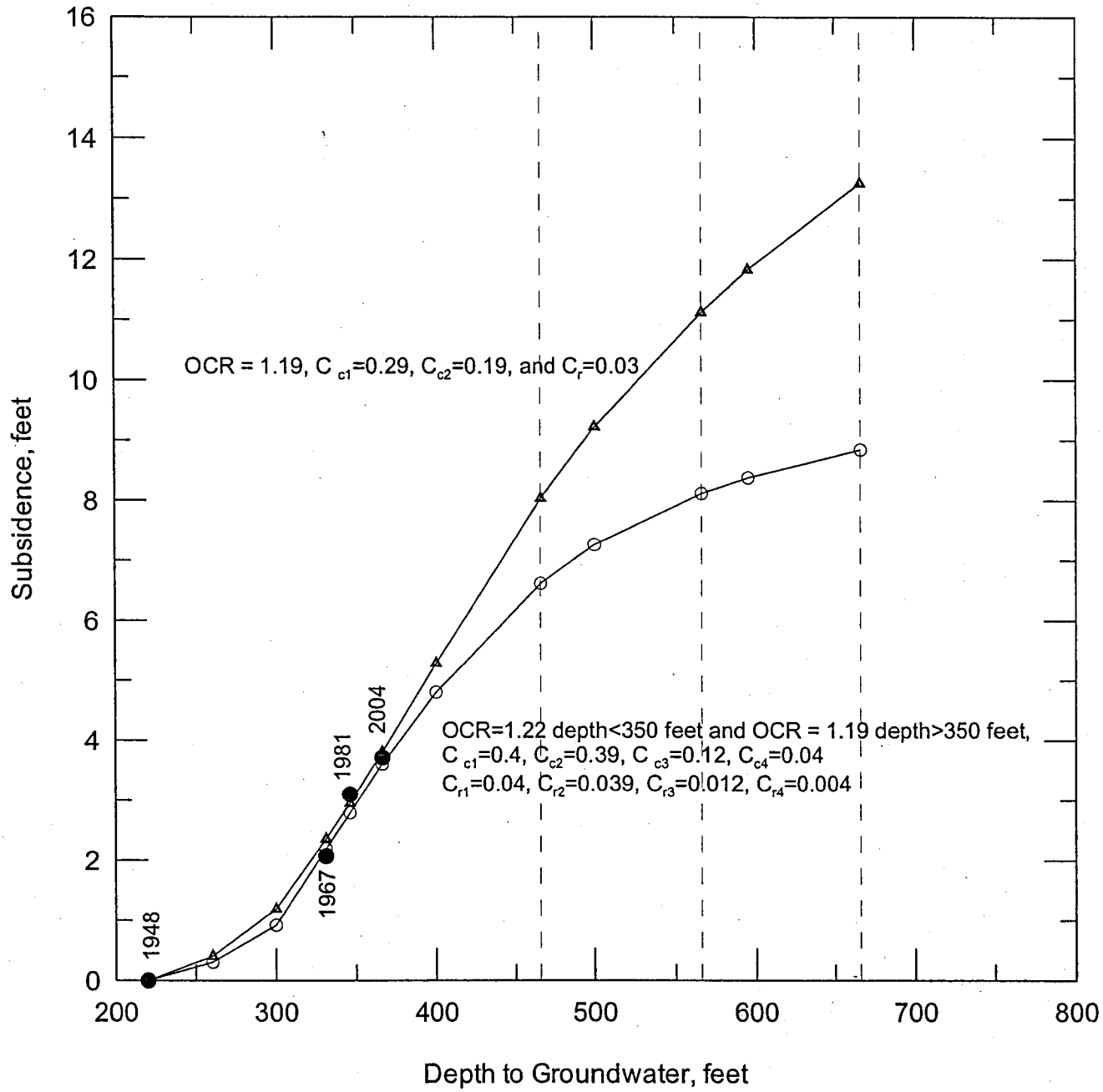
Layer	top (feet)	bottom (feet)	mid point (feet)	Effective Stress mid. Layer (psf)	Pre-Consol Pressure (psf)
1	0	50	25	2750	3355
2	50	100	75	8250	10065
3	100	150	125	13750	16775
4	150	200	175	19250	23485
5	200	250	225	24498	29887.56
6	250	300	275	27478	33523.16
7	300	350	325	30458	37158.76
8	350	400	375	33438	40794.36
9	400	450	425	36418	44429.96
10	450	500	475	39398	48065.56
11	500	550	525	42378	51701.16
12	550	600	575	45358	55336.76
13	600	650	625	48338	58972.36
14	650	700	675	51318	62607.96
15	700	750	725	54298	66243.56
16	750	800	775	57278	69879.16
17	800	850	825	60258	73514.76
18	850	900	875	63238	77150.36
19	900	950	925	66218	80785.96
20	950	1000	975	69198	84421.56
21	1000	1050	1025	72178	88057.16
22	1050	1100	1075	75158	91692.76

Unit Weight above water table: 110 pcf
Unit Weight below water table: 122 pcf

Water Table: 220 feet

OCR above Water Table: 1.19
OCR below Water Table: 1.19

Layer	top (feet)	bottom (feet)	mid point (feet)	Effective Stress mid. Layer (psf)	Pre-Consol Pressure (psf)
1	0	50	25	2750	3272.5
2	50	100	75	8250	9817.5
3	100	150	125	13750	16362.5
4	150	200	175	19250	22907.5
5	200	250	225	24498	29152.62
6	250	300	275	27478	32698.82
7	300	350	325	30458	36245.02
8	350	400	375	33438	39791.22
9	400	450	425	36418	43337.42
10	450	500	475	39398	46883.62
11	500	550	525	42378	50429.82
12	550	600	575	45358	53976.02
13	600	650	625	48338	57522.22
14	650	700	675	51318	61068.42
15	700	750	725	54298	64614.62
16	750	800	775	57278	68160.82
17	800	850	825	60258	71707.02
18	850	900	875	63238	75253.22
19	900	950	925	66218	78799.42
20	950	1000	975	69198	82345.62
21	1000	1050	1025	72178	85891.82
22	1050	1100	1075	75158	89438.02



● Observed Subsidence of Bench Mark BM H265.

—△— Upper Bound of Predicted Subsidence Values based on Calibrated Model Results.

—○— Lower Bound of Predicted Subsidence Values based on Calibrated Model Results.

Project No.: 23443748	Subsidence Analysis Results	Figure 1
White Tanks FRS No. 3 Remediation		
URS		

N:\Projects\23443748_White_Tanks_FRS_3\Sub_00\10.0_Calculations_Analyses_Data\Subsidence\Results.grf with results.xls (sheet1) CJCW 8/18/2004

Final values used in graphs

Depth to Ground water	Measured Subsidence	Cc1=0.29 Cc2=0.19 Cr=0.03 OCR=1.19	4 Cc and Cr OCR=1.19
220	0	0 ✓	0 ✓
240			
260		0.402 ✓	0.305 ✓
280			
300		1.189 ✓	0.921 ✓
331	2.07	2.356 ✓	2.19 ✓
346	3.1	2.95 ✓	2.789 ✓
366	3.71	3.805 ✓	3.602 ✓
400		5.286 ✓	4.8 ✓
466			6.613 ✓
466		8.031 ✓	
500		9.213 ✓	7.259 ✓
550			
566		11.118 ✓	
566			8.11 ✓
595		11.832 ✓	8.373 ✓
666			8.841 ✓
666		13.253 ✓	
		Upper Bound	Lower Bound

Cc1=0.4
Cc2=0.39
Cc3=0.12
Cc4=0.04

Cr1=0.04
Cr2=0.039
Cr3=0.012
Cr4=0.004

OCR=1.22 d<350

Cc & Cr OCR=1.cns

Upper Bound - 0064 595'

```
==========================================================
CONSOL - 1d Consolidation Analysis Program
         Version 3.0
         Virginia Tech, Department of Civil Engineering
==========================================================
```

220
260
300
331
346
366
400
500
595

Date: 08/10/2004
Input file : C:\Program Files\Consol\Cc & Cr OCR=1.cns
Output file: C:\Program Files\Consol\Cc & Cr OCR=1.out
Plot file : C:\Program Files\Consol\Cc & Cr OCR=1.dat

Title : White Tanks FRS No. 3, Remediation

**** C O N T R O L D A T A ****

Number of compressible units	11
Number of soil layers	22
Number of different soils	2
Elevation of the ground surface	0.00
Elevation of the top of the compressible soil mass	0.00
Ground water elevation	-220.00
Unit weight of water	62.40
Moist unit wt. of soil btwn grn. surf. & comp. soil mass ...	110.00
Satur. unit wt. of soil btwn grn. surf. & comp. soil mass ..	122.00

**** U N I T B O U N D A R Y D A T A ****

Unit Number	Top Boundary	Bottom Boundary	Drainage Condition
1	1	4	2
2	4	5	2
3	5	8	2
4	8	9	2
5	9	12	2
6	12	13	2
7	13	16	2
8	16	17	2
9	17	20	2
10	20	21	2
11	21	23	2

**** S O I L P R O P E R T Y D A T A ****

Soil Type	Unit Weight	Void Ratio	Cc	Ccs	Cv	Cvs
1	122.00	0.37	0.29	0.03	7000.00	7000.00
2	122.00	0.37	0.19	0.03	7000.00	7000.00

**** S U B L A Y E R D A T A ****

Layer	Center Elev	Bottom Elev	Thick	Overbn Pressure	Precons Pressure	Soil Type
1	-25.00	-50.00	50.00	3050.00	3272.50	1
2	-75.00	-100.00	50.00	9150.00	9817.50	1
3	-125.00	-150.00	50.00	15250.00	16362.50	1
4	-175.00	-200.00	50.00	21350.00	22907.50	1
5	-225.00	-250.00	50.00	27138.00	29152.62	1
6	-275.00	-300.00	50.00	30118.00	32698.82	1
7	-325.00	-350.00	50.00	33098.00	36245.02	1
8	-375.00	-400.00	50.00	36078.00	39791.22	1
9	-425.00	-450.00	50.00	39058.00	43337.42	1
10	-475.00	-500.00	50.00	42038.00	46883.62	1
11	-525.00	-550.00	50.00	45018.00	50429.82	1
12	-575.00	-600.00	50.00	47998.00	53976.02	1
13	-625.00	-650.00	50.00	50978.00	57522.22	2
14	-675.00	-700.00	50.00	53958.00	61068.42	2
15	-725.00	-750.00	50.00	56938.00	64614.62	2
16	-775.00	-800.00	50.00	59918.00	68160.82	2
17	-825.00	-850.00	50.00	62898.00	71707.02	2
18	-875.00	-900.00	50.00	65878.00	75253.22	2
19	-925.00	-950.00	50.00	68858.00	78799.42	2
20	-975.00	-1000.00	50.00	71838.00	82345.62	2
21	-1025.00	-1050.00	50.00	74818.00	85891.82	2
22	-1075.00	-1100.00	50.00	77798.00	89438.02	2

**** Number of Loadcases to be Analysed: 9

**** L O A D C A S E : 1 ****
**** C h a n g e i n G r o u n d w a t e r E l e v a t i o n ****

Time intervals: 2.00 4.00

Old water elevation ..... -220.00
New water elevation ..... -220.00

Layer	Change in stress
1	0.00
2	0.00
3	0.00
4	0.00
5	0.00
6	0.00
7	0.00
8	0.00
9	0.00
10	0.00
11	0.00
12	0.00
13	0.00
14	0.00
15	0.00
16	0.00
17	0.00
18	0.00
19	0.00
20	0.00
21	0.00
22	0.00

Layer	Thick.	Void Ratio	Initial Pressure	Precons. Pressure	Final Pressure	Ult. Settl.
1	50.00	0.37	3050.00	3272.50	3050.00	0.000
2	50.00	0.37	9150.00	9817.50	9150.00	0.000
3	50.00	0.37	15250.00	16362.50	15250.00	0.000
4	50.00	0.37	21350.00	22907.50	21350.00	0.000
5	50.00	0.37	27138.00	29152.62	27138.00	0.000
6	50.00	0.37	30118.00	32698.82	30118.00	0.000
7	50.00	0.37	33098.00	36245.02	33098.00	0.000
8	50.00	0.37	36078.00	39791.22	36078.00	0.000
9	50.00	0.37	39058.00	43337.42	39058.00	0.000
10	50.00	0.37	42038.00	46883.62	42038.00	0.000
11	50.00	0.37	45018.00	50429.82	45018.00	0.000
12	50.00	0.37	47998.00	53976.02	47998.00	0.000
13	50.00	0.37	50978.00	57522.22	50978.00	0.000
14	50.00	0.37	53958.00	61068.42	53958.00	0.000
15	50.00	0.37	56938.00	64614.62	56938.00	0.000
16	50.00	0.37	59918.00	68160.82	59918.00	0.000
17	50.00	0.37	62898.00	71707.02	62898.00	0.000
18	50.00	0.37	65878.00	75253.22	65878.00	0.000
19	50.00	0.37	68858.00	78799.42	68858.00	0.000
20	50.00	0.37	71838.00	82345.62	71838.00	0.000
21	50.00	0.37	74818.00	85891.82	74818.00	0.000
22	50.00	0.37	77798.00	89438.02	77798.00	0.000

Ultimate settlement without correction for buoyancy : 0.000

**** Time since load was applied: 2.00 ****

Elevation	Effective Stress	Pore Pressure
-25.00	3050.00	0.00
-75.00	9150.00	0.00
-125.00	15250.00	0.00
-175.00	21350.00	0.00
-225.00	27138.00	0.00
-275.00	30118.00	0.00
-325.00	33098.00	0.00
-375.00	36078.00	0.00
-425.00	39058.00	0.00
-475.00	42038.00	0.00
-525.00	45018.00	0.00
-575.00	47998.00	0.00
-625.00	50978.00	0.00
-675.00	53958.00	0.00
-725.00	56938.00	0.00
-775.00	59918.00	0.00
-825.00	62898.00	0.00
-875.00	65878.00	0.00
-925.00	68858.00	0.00
-975.00	71838.00	0.00
-1025.00	74818.00	0.00
-1075.00	77798.00	0.00

**** Time since load was applied: 4.00 ****

Elevation	Effective Stress	Pore Pressure

-25.00	3050.00	0.00
-75.00	9150.00	0.00
-125.00	15250.00	0.00
-175.00	21350.00	0.00
-225.00	27138.00	0.00
-275.00	30118.00	0.00
-325.00	33098.00	0.00
-375.00	36078.00	0.00
-425.00	39058.00	0.00
-475.00	42038.00	0.00
-525.00	45018.00	0.00
-575.00	47998.00	0.00
-625.00	50978.00	0.00
-675.00	53958.00	0.00
-725.00	56938.00	0.00
-775.00	59918.00	0.00
-825.00	62898.00	0.00
-875.00	65878.00	0.00
-925.00	68858.00	0.00
-975.00	71838.00	0.00
-1025.00	74818.00	0.00
-1075.00	77798.00	0.00

For this load case		Accumulated		Surface
Time	Settlement	Time	Settlement	elevation
2.00	0.000	2.00	0.000	0.00
4.00	0.000	4.00	0.000	0.00

**** L O A D C A S E : 2 ****
**** C h a n g e i n G r o u n d w a t e r E l e v a t i o n ****

Time intervals: 2.00 4.00

Old water elevation ..... -220.00
New water elevation ..... -260.00

Layer	Change in stress
1	0.00
2	0.00
3	0.00
4	0.00
5	312.00
6	2496.00
7	2496.00
8	2496.00
9	2496.00
10	2496.00
11	2496.00
12	2496.00
13	2496.00
14	2496.00
15	2496.00
16	2496.00
17	2496.00
18	2496.00
19	2496.00
20	2496.00
21	2496.00
22	2496.00

Layer	Thick.	Void Ratio	Initial Pressure	Precons. Pressure	Final Pressure	Ult. Settl.
1	50.00	0.37	3050.00	3272.50	3050.00	0.000
2	50.00	0.37	9150.00	9817.50	9150.00	0.000
3	50.00	0.37	15250.00	16362.50	15250.00	0.000
4	50.00	0.37	21350.00	22907.50	21350.00	0.000
5	50.00	0.37	27138.00	29152.62	27450.00	0.005
6	50.00	0.37	30118.00	32698.82	32614.00	0.038
7	50.00	0.37	33098.00	36245.02	35594.00	0.035
8	50.00	0.37	36078.00	39791.22	38574.00	0.032
9	50.00	0.37	39058.00	43337.42	41554.00	0.029
10	50.00	0.37	42038.00	46883.62	44534.00	0.027
11	50.00	0.37	45018.00	50429.82	47514.00	0.026
12	50.00	0.37	47998.00	53976.02	50494.00	0.024
13	50.00	0.37	50978.00	57522.22	53474.00	0.023
14	50.00	0.37	53958.00	61068.42	56454.00	0.022
15	50.00	0.37	56938.00	64614.62	59434.00	0.020
16	50.00	0.37	59918.00	68160.82	62414.00	0.019
17	50.00	0.37	62898.00	71707.02	65394.00	0.019
18	50.00	0.37	65878.00	75253.22	68374.00	0.018
19	50.00	0.37	68858.00	78799.42	71354.00	0.017
20	50.00	0.37	71838.00	82345.62	74334.00	0.016
21	50.00	0.37	74818.00	85891.82	77314.00	0.016
22	50.00	0.37	77798.00	89438.02	80294.00	0.015

Ultimate settlement without correction for buoyancy : 0.401

**** Time since load was applied: 2.00 ****

Elevation	Effective Stress	Pore Pressure
-25.40	3050.00	0.00
-75.40	9150.00	0.00
-125.40	15250.00	0.00
-175.40	21428.00	0.00
-225.39	27915.04	2.95
-275.37	32061.94	6.06
-325.34	35590.89	3.10
-375.31	38574.00	0.00
-425.28	41550.13	3.87
-475.25	44526.11	7.89
-525.22	47509.98	4.01
-575.20	50494.00	0.00
-625.17	53470.09	3.91
-675.15	56446.06	7.93
-725.13	59429.98	4.02
-775.11	62414.00	0.00
-825.09	65390.07	3.93
-875.07	68366.04	7.96
-925.06	71349.97	4.02
-975.04	74334.00	0.00
-1025.02	77313.99	0.00
-1075.01	80293.99	0.00

**** Time since load was applied: 4.00 ****

Elevation	Effective Stress	Pore Pressure
-25.40	3050.00	0.00
-75.40	9150.00	0.00
-125.40	15250.00	0.00
-175.40	21428.00	0.00
-225.39	27917.99	0.01
-275.37	32067.99	0.01
-325.34	35594.00	0.01
-375.31	38574.00	0.00
-425.28	41553.99	0.01
-475.25	44533.98	0.01
-525.22	47513.99	0.01
-575.20	50494.00	0.00
-625.17	53473.99	0.01
-675.15	56453.97	0.01
-725.13	59433.99	0.01
-775.11	62414.00	0.00
-825.09	65394.00	0.01
-875.07	68373.98	0.01
-925.06	71353.98	0.01
-975.04	74334.00	0.00
-1025.02	77314.00	0.00
-1075.01	80294.00	0.00

For this load case		Accumulated		Surface
Time	Settlement	Time	Settlement	elevation
2.00	0.402	6.00	0.402	-0.40
4.00	0.402	8.00	0.402	-0.40

**** L O A D C A S E : 3 ****
**** C h a n g e i n G r o u n d w a t e r E l e v a t i o n ****

Time intervals: 2.00 4.00

Old water elevation ..... -260.00
New water elevation ..... -300.00

Layer	Change in stress
1	0.00
2	0.00
3	0.00
4	0.00
5	0.00
6	959.23
7	2496.00
8	2496.00
9	2496.00
10	2496.00
11	2496.00
12	2496.00
13	2496.00

14	2496.00
15	2496.00
16	2496.00
17	2496.00
18	2496.00
19	2496.00
20	2496.00
21	2496.00
22	2496.00

Layer	Thick.	Void Ratio	Initial Pressure	Precons. Pressure	Final Pressure	Ult. Settl.
1	50.00	0.37	3050.00	3272.50	3050.00	0.000
2	50.00	0.37	9150.00	9817.50	9150.00	0.000
3	50.00	0.37	15250.00	16362.50	15250.00	0.000
4	50.00	0.37	21428.00	22907.50	21428.00	0.000
5	49.99	0.37	27917.99	29152.62	27918.00	0.000
6	49.97	0.37	32067.99	32698.82	33027.23	0.055
7	49.97	0.37	35594.00	36245.02	38090.00	0.237
8	49.97	0.37	38574.00	39791.22	41070.00	0.160
9	49.97	0.37	41553.99	43337.42	44050.00	0.095
10	49.97	0.37	44533.98	46883.62	47030.00	0.039
11	49.97	0.37	47513.99	50429.82	50010.00	0.024
12	49.98	0.37	50494.00	53976.02	52990.00	0.023
13	49.98	0.37	53473.99	57522.22	55970.00	0.022
14	49.98	0.37	56453.97	61068.42	58949.99	0.021
15	49.98	0.37	59433.99	64614.62	61930.00	0.020
16	49.98	0.37	62414.00	68160.82	64910.00	0.019
17	49.98	0.37	65394.00	71707.02	67890.00	0.018
18	49.98	0.37	68373.98	75253.22	70870.00	0.017
19	49.98	0.37	71353.98	78799.42	73849.98	0.016
20	49.98	0.37	74334.00	82345.62	76830.00	0.016
21	49.98	0.37	77314.00	85891.82	79810.00	0.015
22	49.98	0.37	80294.00	89438.02	82790.00	0.015

Ultimate settlement without correction for buoyancy : 0.811

**** Time since load was applied: 2.00 ****

Elevation	Effective Stress	Pore Pressure
-26.19	3050.00	0.00
-76.19	9150.00	0.00
-126.19	15250.00	0.00
-176.19	21428.00	0.00
-226.18	28156.29	1.56
-276.12	33168.46	3.20
-325.95	37704.17	1.65
-375.74	41070.00	0.00
-425.59	44046.16	3.84
-475.49	47022.18	7.82
-525.43	50006.02	3.98
-575.38	52990.00	0.00
-625.34	55966.10	3.90
-675.30	58942.09	7.90
-725.25	61925.99	4.00
-775.22	64910.00	0.00
-825.18	67886.07	3.92
-875.14	70862.07	7.93
-925.11	73845.98	4.01
-975.08	76830.00	0.00
-1025.04	79809.99	0.00
-1075.01	82789.99	0.00

**** Time since load was applied: 4.00 ****

Elevation	Effective Stress	Pore Pressure
-26.19	3050.00	0.00
-76.19	9150.00	0.00
-126.19	15250.00	0.00
-176.19	21428.00	0.00
-226.18	28157.84	0.00
-276.12	33171.66	0.01
-325.95	37705.81	0.00
-375.75	41070.00	0.00
-425.59	44050.00	0.01
-475.49	47029.99	0.01
-525.43	50009.98	0.01
-575.38	52990.00	0.00
-625.34	55969.99	0.01
-675.30	58949.97	0.01
-725.25	61929.99	0.01
-775.22	64910.00	0.00
-825.18	67889.98	0.01
-875.14	70869.98	0.01
-925.11	73849.98	0.01
-975.08	76830.00	0.00

-1025.05	79810.00	0.00
-1075.01	82790.00	0.00

For this load case Time	Settlement	Accumulated Time	Settlement	Surface elevation
2.00	0.786	10.00	1.189	-1.19
4.00	0.788	12.00	1.191	-1.19

**** L O A D C A S E : 4 ****
**** C h a n g e i n G r o u n d w a t e r E l e v a t i o n ****

Time intervals: 2.00 4.00

Old water elevation ..... -300.00
New water elevation ..... -331.00

Layer	Change in stress
1	0.00
2	0.00
3	0.00
4	0.00
5	0.00
6	0.00
7	1619.52
8	1934.40
9	1934.40
10	1934.41
11	1934.41
12	1934.41
13	1934.41
14	1934.41
15	1934.41
16	1934.41
17	1934.41
18	1934.41
19	1934.41
20	1934.41
21	1934.41
22	1934.41

Layer	Thick.	Void Ratio	Initial Pressure	Precons. Pressure	Final Pressure	Ult. Settl.
1	50.00	0.37	3050.00	3272.50	3050.00	0.000
2	50.00	0.37	9150.00	9817.50	9150.00	0.000
3	50.00	0.37	15250.00	16362.50	15250.00	0.000
4	50.00	0.37	21428.00	22907.50	21428.00	0.000
5	49.98	0.37	28157.84	29152.62	28157.84	0.000
6	49.89	0.37	33171.66	33171.66	33171.66	0.000
7	49.78	0.36	37705.81	37705.81	39325.33	0.193
8	49.81	0.36	41070.00	41070.00	43004.41	0.212
9	49.88	0.37	44050.00	44050.00	45984.41	0.198
10	49.93	0.37	47029.99	47029.99	48964.41	0.185
11	49.95	0.37	50009.98	50429.82	51944.40	0.140
12	49.95	0.37	52990.00	53976.02	54924.41	0.089
13	49.96	0.37	55969.99	57522.22	57904.40	0.033
14	49.96	0.37	58949.97	61068.42	60884.39	0.015
15	49.96	0.37	61929.99	64614.62	63864.40	0.015
16	49.96	0.37	64910.00	68160.82	66844.41	0.014
17	49.96	0.37	67889.98	71707.02	69824.39	0.013
18	49.97	0.37	70869.98	75253.22	72804.41	0.013
19	49.97	0.37	73849.98	78799.42	75784.39	0.012
20	49.97	0.37	76830.00	82345.62	78764.41	0.012
21	49.97	0.37	79810.00	85891.82	81744.41	0.011
22	49.97	0.37	82790.00	89438.02	84724.41	0.011

Ultimate settlement without correction for buoyancy : 1.167

**** Time since load was applied: 2.00 ****

Elevation	Effective Stress	Pore Pressure
-27.36	3050.00	0.00
-77.36	9150.00	0.00
-127.36	15250.00	0.00
-177.36	21428.00	0.00
-227.35	28150.34	7.50
-277.26	33563.75	13.28
-326.99	38993.86	5.78
-376.60	42925.66	0.00
-426.24	45966.53	17.88
-475.96	48921.96	42.45
-525.74	51919.83	24.57
-575.58	54924.41	0.00

-625.47	57901.39	3.01
-675.40	60878.30	6.10
-725.35	63861.32	3.09
-775.30	66844.41	0.00
-825.24	69821.36	3.03
-875.20	72798.27	6.12
-925.15	75781.30	3.09
-975.10	78764.41	0.00
-1025.06	81744.40	0.00
-1075.02	84724.40	0.00

**** Time since load was applied: 4.00 ****

Elevation	Effective Stress	Pore Pressure
-27.37	3050.00	0.00
-77.37	9150.00	0.00
-127.37	15250.00	0.00
-177.37	21428.00	0.00
-227.36	28157.65	0.19
-277.27	33576.70	0.33
-327.00	38999.49	0.15
-376.61	42925.66	0.00
-426.25	45984.09	0.32
-475.96	48963.64	0.77
-525.74	51943.96	0.45
-575.58	54924.41	0.00
-625.47	57904.39	0.01
-675.40	60884.38	0.01
-725.35	63864.40	0.01
-775.30	66844.41	0.00
-825.24	69824.38	0.01
-875.20	72804.38	0.01
-925.15	75784.38	0.01
-975.10	78764.41	0.00
-1025.06	81744.40	0.00
-1075.02	84724.40	0.00

For this load case		Accumulated		Surface
Time	Settlement	Time	Settlement	elevation
2.00	1.165	14.00	2.356	-2.36
4.00	1.176	16.00	2.367	-2.37

**** L O A D C A S E : 5 ****
**** C h a n g e i n G r o u n d w a t e r E l e v a t i o n ****

Time intervals: 2.00 4.00

Old water elevation ..... -331.00
New water elevation ..... -346.00

Layer	Change in stress
1	0.00
2	0.00
3	0.00
4	0.00
5	0.00
6	0.00
7	0.00
8	936.00
9	936.00
10	936.00
11	936.00
12	936.00
13	936.00
14	936.00
15	936.00
16	936.00
17	936.00
18	936.00
19	936.00
20	936.00
21	936.00
22	936.00

Layer	Thick.	Void Ratio	Initial Pressure	Precons. Pressure	Final Pressure	Ult. Settl.
1	50.00	0.37	3050.00	3272.50	3050.00	0.000
2	50.00	0.37	9150.00	9817.50	9150.00	0.000
3	50.00	0.37	15250.00	16362.50	15250.00	0.000
4	50.00	0.37	21428.00	22907.50	21428.00	0.000
5	49.98	0.37	28157.65	29152.62	28157.84	0.000
6	49.84	0.36	33576.70	33576.70	33577.03	0.000
7	49.62	0.36	38999.49	38999.49	38999.64	0.000

8	49.60	0.36	42925.66	42925.66	43861.66	0.099
9	49.68	0.36	45984.09	45984.09	46920.41	0.093
10	49.75	0.36	48963.64	48963.64	49900.41	0.087
11	49.81	0.36	51943.96	51943.96	52880.40	0.082
12	49.86	0.37	54924.41	54924.41	55860.41	0.078
13	49.92	0.37	57904.39	57904.39	58840.40	0.048
14	49.94	0.37	60884.38	61068.42	61820.39	0.038
15	49.95	0.37	63864.40	64614.62	64800.41	0.014
16	49.95	0.37	66844.41	68160.82	67780.41	0.007
17	49.95	0.37	69824.38	71707.02	70760.39	0.006
18	49.95	0.37	72804.38	75253.22	73740.39	0.006
19	49.95	0.37	75784.38	78799.42	76720.39	0.006
20	49.96	0.37	78764.41	82345.62	79700.41	0.006
21	49.96	0.37	81744.40	85891.82	82680.40	0.005
22	49.96	0.37	84724.40	89438.02	85660.40	0.005

Ultimate settlement without correction for buoyancy : 0.581

**** Time since load was applied: 2.00 ****

Elevation	Effective Stress	Pore Pressure
-27.95	3050.00	0.00
-77.95	9150.00	0.00
-127.95	15250.00	0.00
-177.95	21428.05	0.00
-227.94	28157.83	0.00
-277.85	33576.95	0.01
-327.57	39233.68	0.00
-377.13	43627.81	0.00
-426.68	46919.09	1.35
-476.31	49897.46	2.75
-526.00	52878.97	1.40
-575.76	55860.53	0.00
-625.59	58840.35	0.05
-675.48	61820.24	0.15
-725.40	64800.30	0.10
-775.33	67780.41	0.00
-825.28	70758.93	1.46
-875.22	73737.43	2.96
-925.17	76718.90	1.49
-975.12	79700.41	0.00
-1025.07	82680.39	0.00
-1075.02	85660.39	0.00

**** Time since load was applied: 4.00 ****

Elevation	Effective Stress	Pore Pressure
-27.95	3050.00	0.00
-77.95	9150.00	0.00
-127.95	15250.00	0.00
-177.95	21428.05	0.00
-227.94	28157.83	0.00
-277.85	33576.95	0.00
-327.57	39233.68	0.00
-377.13	43627.81	0.00
-426.69	46920.43	0.00
-476.31	49900.21	0.00
-526.00	52880.37	0.00
-575.76	55860.53	0.00
-625.59	58840.40	0.00
-675.48	61820.39	0.00
-725.40	64800.41	0.00
-775.33	67780.41	0.00
-825.28	70760.40	0.00
-875.22	73740.38	0.01
-925.17	76720.40	0.00
-975.12	79700.41	0.00
-1025.07	82680.39	0.00
-1075.02	85660.39	0.00

For this load case		Accumulated		Surface
Time	Settlement	Time	Settlement	elevation
2.00	0.583	18.00	2.950	-2.95
4.00	0.584	20.00	2.951	-2.95

**** L O A D C A S E : 6 ****
**** C h a n g e i n G r o u n d w a t e r E l e v a t i o n ****

Time intervals: 2.00 4.00

Old water elevation ..... -346.00
New water elevation ..... -366.00

Layer	Change in stress
1	0.00
2	0.00
3	0.00
4	0.00
5	0.00
6	0.00
7	0.00
8	1248.00
9	1248.00
10	1248.00
11	1248.00
12	1248.00
13	1248.00
14	1248.00
15	1248.00
16	1248.00
17	1248.00
18	1248.00
19	1248.00
20	1248.00
21	1248.00
22	1248.00

Layer	Thick.	Void Ratio	Initial Pressure	Precons. Pressure	Final Pressure	Ult. Settl.
1	50.00	0.37	3050.00	3272.50	3050.00	0.000
2	50.00	0.37	9150.00	9817.50	9150.00	0.000
3	50.00	0.37	15250.00	16362.50	15250.00	0.000
4	50.00	0.37	21428.05	22907.50	21428.05	0.000
5	49.98	0.37	28157.83	29152.62	28157.83	0.000
6	49.84	0.36	33576.95	33576.95	33576.95	0.000
7	49.59	0.36	39233.68	39233.68	39233.68	0.000
8	49.53	0.36	43627.81	43627.81	44875.81	0.130
9	49.59	0.36	46920.43	46920.43	48168.44	0.121
10	49.66	0.36	49900.21	49900.21	51148.22	0.114
11	49.73	0.36	52880.37	52880.37	54128.37	0.107
12	49.79	0.36	55860.53	55860.53	57108.53	0.102
13	49.87	0.37	58840.40	58840.40	60088.40	0.063
14	49.90	0.37	61820.39	61820.39	63068.39	0.060
15	49.93	0.37	64800.41	64800.41	66048.41	0.057
16	49.94	0.37	67780.41	68160.82	69028.41	0.041
17	49.94	0.37	70760.40	71707.02	72008.40	0.019
18	49.95	0.37	73740.38	75253.22	74988.38	0.008
19	49.95	0.37	76720.40	78799.42	77968.40	0.008
20	49.95	0.37	79700.41	82345.62	80948.41	0.007
21	49.95	0.37	82680.39	85891.82	83928.39	0.007
22	49.95	0.37	85660.39	89438.02	86908.39	0.007

Ultimate settlement without correction for buoyancy : 0.851

**** Time since load was applied: 2.00 ****

Elevation	Effective Stress	Pore Pressure
-28.80	3050.00	0.00
-78.80	9150.00	0.00
-128.80	15250.00	0.00
-178.80	21428.05	0.00
-228.79	28157.83	0.00
-278.70	33576.95	0.00
-328.40	39545.88	0.00
-377.90	44564.01	0.00
-427.34	48166.69	1.76
-476.85	51144.64	3.57
-526.44	54126.55	1.82
-576.09	57108.53	0.00
-625.84	60086.50	1.90
-675.66	63064.54	3.85
-725.52	66046.46	1.95
-775.41	69028.41	0.00
-825.32	72006.45	1.95
-875.25	74984.45	3.94
-925.19	77966.41	1.99
-975.14	80948.41	0.00
-1025.08	83928.40	0.00
-1075.03	86908.40	0.00

**** Time since load was applied: 4.00 ****

Elevation	Effective Stress	Pore Pressure
-28.81	3050.00	0.00
-78.81	9150.00	0.00
-128.81	15250.00	0.00
-178.81	21428.05	0.00

-228.80	28157.83	0.00
-278.71	33576.95	0.00
-328.40	39545.88	0.00
-377.90	44564.01	0.00
-427.35	48168.44	0.00
-476.85	51148.21	0.01
-526.44	54128.37	0.00
-576.09	57108.53	0.00
-625.84	60088.40	0.00
-675.66	63068.38	0.01
-725.52	66048.41	0.00
-775.41	69028.41	0.00
-825.32	72008.38	0.00
-875.25	74988.38	0.01
-925.19	77968.39	0.00
-975.14	80948.41	0.00
-1025.08	83928.40	0.00
-1075.03	86908.40	0.00

For this load case		Accumulated		Surface
Time	Settlement	Time	Settlement	elevation
2.00	0.854	22.00	3.805	-3.80
4.00	0.855	24.00	3.806	-3.81

**** L O A D C A S E : 7 ****
**** C h a n g e i n G r o u n d w a t e r E l e v a t i o n ****

Time intervals: 2.00 4.00

Old water elevation ..... -366.00
New water elevation ..... -400.00

Layer	Change in stress
1	0.00
2	0.00
3	0.00
4	0.00
5	0.00
6	0.00
7	0.00
8	742.41
9	2121.60
10	2121.60
11	2121.60
12	2121.60
13	2121.60
14	2121.60
15	2121.60
16	2121.60
17	2121.60
18	2121.60
19	2121.60
20	2121.60
21	2121.60
22	2121.60

Layer	Thick.	Void Ratio	Initial Pressure	Precons. Pressure	Final Pressure	Ult. Settl.
1	50.00	0.37	3050.00	3272.50	3050.00	0.000
2	50.00	0.37	9150.00	9817.50	9150.00	0.000
3	50.00	0.37	15250.00	16362.50	15250.00	0.000
4	50.00	0.37	21428.05	22907.50	21428.05	0.000
5	49.98	0.37	28157.83	29152.62	28157.83	0.000
6	49.84	0.36	33576.95	33576.95	33576.95	0.000
7	49.56	0.36	39545.88	39545.88	39545.88	0.000
8	49.43	0.35	44564.01	44564.01	45306.42	0.076
9	49.46	0.35	48168.44	48168.44	50290.05	0.198
10	49.55	0.36	51148.21	51148.21	53269.82	0.187
11	49.62	0.36	54128.37	54128.37	56249.97	0.177
12	49.68	0.36	57108.53	57108.53	59230.13	0.168
13	49.81	0.36	60088.40	60088.40	62210.00	0.105
14	49.84	0.36	63068.38	63068.38	65189.99	0.100
15	49.87	0.37	66048.41	66048.41	68170.01	0.095
16	49.90	0.37	69028.41	69028.41	71150.02	0.091
17	49.92	0.37	72008.38	72008.38	74129.98	0.088
18	49.94	0.37	74988.38	75253.22	77109.98	0.075
19	49.94	0.37	77968.39	78799.42	80089.99	0.054
20	49.94	0.37	80948.41	82345.62	83070.01	0.035
21	49.95	0.37	83928.40	85891.82	86050.00	0.017
22	49.95	0.37	86908.40	89438.02	89030.00	0.011

Ultimate settlement without correction for buoyancy : 1.476

**** Time since load was applied: 2.00 ****

Elevation	Effective Stress	Pore Pressure
-30.29	3050.00	0.00
-80.29	9150.00	0.00
-130.29	15250.00	0.00
-180.29	21428.05	0.00
-230.28	28157.83	0.00
-280.19	33576.95	0.00
-329.87	39731.71	0.00
-379.31	45465.74	0.00
-428.63	49942.27	2.87
-477.96	53263.99	5.83
-527.36	56247.01	2.96
-576.84	59230.13	0.00
-626.45	62206.84	3.16
-676.18	65183.59	6.40
-725.94	68166.78	3.24
-775.73	71150.02	0.00
-825.56	74129.87	0.12
-875.41	77109.64	0.34
-925.28	80089.78	0.23
-975.18	83070.01	0.00
-1025.10	86049.99	0.00
-1075.03	89029.99	0.00

**** Time since load was applied: 4.00 ****

Elevation	Effective Stress	Pore Pressure
-30.29	3050.00	0.00
-80.29	9150.00	0.00
-130.29	15250.00	0.00
-180.29	21428.05	0.00
-230.28	28157.83	0.00
-280.19	33576.95	0.00
-329.87	39731.71	0.00
-379.31	45465.74	0.00
-428.63	49945.14	0.00
-477.96	53269.81	0.01
-527.36	56249.96	0.00
-576.84	59230.13	0.00
-626.45	62209.99	0.01
-676.18	65189.98	0.01
-725.94	68170.02	0.01
-775.73	71150.02	0.00
-825.56	74129.98	0.00
-875.41	77109.98	0.00
-925.28	80090.01	0.00
-975.18	83070.01	0.00
-1025.10	86049.99	0.00
-1075.03	89029.99	0.00

For this load case		Accumulated		Surface
Time	Settlement	Time	Settlement	elevation
2.00	1.480	26.00	5.286	-5.29
4.00	1.482	28.00	5.288	-5.29

**** L O A D C A S E : 8 ****
**** C h a n g e i n G r o u n d w a t e r E l e v a t i o n ****

Time intervals: 2.00 4.00

Old water elevation ..... -400.00
New water elevation ..... -500.00

Layer	Change in stress
1	0.00
2	0.00
3	0.00
4	0.00
5	0.00
6	0.00
7	0.00
8	0.00
9	1786.57
10	4864.71
11	6240.00
12	6240.00
13	6240.01
14	6240.01
15	6240.00
16	6240.00
17	6240.00
18	6240.00

19	6240.00
20	6240.00
21	6240.00
22	6240.00

Layer	Thick.	Void Ratio	Initial Pressure	Precons. Pressure	Final Pressure	Ult. Settl.
1	50.00	0.37	3050.00	3272.50	3050.00	0.000
2	50.00	0.37	9150.00	9817.50	9150.00	0.000
3	50.00	0.37	15250.00	16362.50	15250.00	0.000
4	50.00	0.37	21428.05	22907.50	21428.05	0.000
5	49.98	0.37	28157.83	29152.62	28157.83	0.000
6	49.84	0.36	33576.95	33576.95	33576.95	0.000
7	49.53	0.36	39731.71	39731.71	39731.71	0.000
8	49.34	0.35	45465.74	45465.74	45465.74	0.000
9	49.30	0.35	49945.14	49945.14	51731.71	0.162
10	49.36	0.35	53269.81	53269.81	58134.52	0.402
11	49.44	0.35	56249.96	56249.96	62489.97	0.484
12	49.52	0.36	59230.13	59230.13	65470.14	0.461
13	49.71	0.36	62209.99	62209.99	68450.00	0.288
14	49.74	0.36	65189.98	65189.98	71430.00	0.275
15	49.78	0.36	68170.02	68170.02	74410.02	0.264
16	49.81	0.36	71150.02	71150.02	77390.02	0.253
17	49.84	0.36	74129.98	74129.98	80369.98	0.244
18	49.86	0.37	77109.98	77109.98	83349.98	0.235
19	49.89	0.37	80090.01	80090.01	86330.01	0.226
20	49.91	0.37	83070.01	83070.01	89310.01	0.218
21	49.93	0.37	86049.99	86049.99	92289.99	0.211
22	49.94	0.37	89029.99	89438.02	95269.99	0.193

Ultimate settlement without correction for buoyancy : 3.915

**** Time since load was applied: 2.00 ****

Elevation	Effective Stress	Pore Pressure
-34.21	3050.00	0.00
-84.21	9150.00	0.00
-134.21	15250.00	0.00
-184.21	21428.05	0.00
-234.20	28157.83	0.00
-284.11	33576.95	0.00
-333.80	39731.71	0.00
-383.21	45912.57	0.00
-432.42	52048.82	5.48
-481.47	57696.91	11.12
-530.46	62140.22	5.64
-579.48	65470.14	0.00
-628.71	68441.25	8.75
-678.16	71412.27	17.73
-727.65	74401.05	8.97
-777.19	77390.02	0.00
-826.76	80360.86	9.13
-876.37	83331.55	18.44
-926.02	86320.70	9.32
-975.69	89310.01	0.00
-1025.40	92289.99	0.01
-1075.13	95269.99	0.01

**** Time since load was applied: 4.00 ****

Elevation	Effective Stress	Pore Pressure
-34.22	3050.00	0.00
-84.22	9150.00	0.00
-134.22	15250.00	0.00
-184.22	21428.05	0.00
-234.21	28157.83	0.00
-284.12	33576.95	0.00
-333.80	39731.71	0.00
-383.22	45912.57	0.00
-432.42	52054.29	0.01
-481.47	57708.02	0.01
-530.46	62145.86	0.01
-579.48	65470.14	0.00
-628.72	68449.98	0.01
-678.16	71429.96	0.03
-727.65	74410.01	0.01
-777.19	77390.02	0.00
-826.76	80369.98	0.01
-876.37	83349.98	0.03
-926.02	86330.00	0.01
-975.69	89310.01	0.00
-1025.40	92290.00	0.00
-1075.13	95270.00	0.00

For this load case | Accumulated | Surface

Time	Settlement	Time	Settlement	elevation
2.00	3.925	30.00	9.213	-9.21
4.00	3.930	32.00	9.217	-9.22

**** L O A D C A S E : 9 ****
**** C h a n g e i n G r o u n d w a t e r E l e v a t i o n ****

Time intervals: 2.00

Old water elevation ..... -500.00
New water elevation ..... -595.00

Layer	Change in stress
1	0.00
2	0.00
3	0.00
4	0.00
5	0.00
6	0.00
7	0.00
8	0.00
9	0.00
10	0.00
11	1900.65
12	4959.54
13	5928.00
14	5928.00
15	5928.00
16	5928.00
17	5928.00
18	5928.00
19	5928.00
20	5928.00
21	5928.00
22	5928.00

Layer	Thick.	Void Ratio	Initial Pressure	Precons. Pressure	Final Pressure	Ult. Settl.
1	50.00	0.37	3050.00	3272.50	3050.00	0.000
2	50.00	0.37	9150.00	9817.50	9150.00	0.000
3	50.00	0.37	15250.00	16362.50	15250.00	0.000
4	50.00	0.37	21428.05	22907.50	21428.05	0.000
5	49.98	0.37	28157.83	29152.62	28157.83	0.000
6	49.84	0.36	33576.95	33576.95	33576.95	0.000
7	49.53	0.36	39731.71	39731.71	39731.71	0.000
8	49.30	0.35	45912.57	45912.57	45912.57	0.000
9	49.11	0.34	52054.29	52054.29	52054.30	0.000
10	48.99	0.34	57708.02	57708.02	57708.03	0.000
11	48.99	0.34	62145.86	62145.86	64046.51	0.139
12	49.06	0.34	65470.14	65470.14	70429.67	0.336
13	49.42	0.35	68449.98	68449.98	74378.00	0.250
14	49.47	0.35	71429.96	71429.96	77357.98	0.240
15	49.51	0.36	74410.01	74410.01	80338.02	0.231
16	49.56	0.36	77390.02	77390.02	83318.02	0.222
17	49.59	0.36	80369.98	80369.98	86297.99	0.214
18	49.63	0.36	83349.98	83349.98	89278.01	0.207
19	49.66	0.36	86330.00	86330.00	92258.02	0.200
20	49.69	0.36	89310.01	89310.01	95238.01	0.194
21	49.72	0.36	92290.00	92290.00	98218.00	0.188
22	49.74	0.36	95270.00	95270.00	101198.00	0.182

Ultimate settlement without correction for buoyancy : 2.603

**** Time since load was applied: 2.00 ****

Elevation	Effective Stress	Pore Pressure
-36.83	3050.00	0.00
-86.83	9150.00	0.00
-136.83	15250.00	0.00
-186.83	21428.05	0.00
-236.82	28157.83	0.00
-286.73	33576.95	0.00
-336.42	39731.71	0.00
-385.83	45912.58	0.00
-435.04	52053.76	0.54
-484.07	58182.12	1.10
-532.96	64334.99	0.56
-581.75	69905.63	0.00
-630.71	74127.16	7.83
-679.92	77342.15	15.85
-729.17	80330.01	8.01
-778.48	83318.02	0.00
-827.84	86289.75	8.23

-877.24	89261.38	16.63
-926.68	92249.63	8.39
-976.16	95238.02	0.00
-1025.67	98217.99	0.01
-1075.22	101197.99	0.01

For this load case		Accumulated		Surface
Time	Settlement	Time	Settlement	elevation
2.00	2.615	34.00	11.832	-11.83

**** Complete Time Settlement Record ****

Time	Settlement	
2.00	0.000	- 220
4.00	0.000	
6.00	0.402	- 260
8.00	0.402	
10.00	1.189	- 300
12.00	1.191	
14.00	2.356	- 331
16.00	2.367	
18.00	2.950	- 346
20.00	2.951	
22.00	3.805	- 366
24.00	3.806	
26.00	5.286	- 400
28.00	5.288	
30.00	9.213	- 500
32.00	9.217	
34.00	11.832	- 595

Cc & Cr OCR=1.cns Upper Bound

-666'

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==================================================
CONSOL - 1d Consolidation Analysis Program
         Version 3.0
         Virginia Tech, Department of Civil Engineering
==================================================
```

Date: 08/10/2004
Input file : C:\Program Files\Consol\Cc & Cr OCR=1.cns
Output file: C:\Program Files\Consol\Cc & Cr OCR=1.out
Plot file : C:\Program Files\Consol\Cc & Cr OCR=1.dat

Title : White Tanks FRS No. 3 Remediation

220
260
300
331
346
366
400
500
666

**** C O N T R O L D A T A ****

Number of compressible units	11
Number of soil layers	22
Number of different soils	2
Elevation of the ground surface	0.00
Elevation of the top of the compressible soil mass	0.00
Ground water elevation	-220.00
Unit weight of water	62.40
Moist unit wt. of soil btwn grn. surf. & comp. soil mass ...	110.00
Satur. unit wt. of soil btwn grn. surf. & comp. soil mass ..	122.00

**** U N I T B O U N D A R Y D A T A ****

Unit Number	Top Boundary	Bottom Boundary	Drainage Condition
1	1	4	2
2	4	5	2
3	5	8	2
4	8	9	2
5	9	12	2
6	12	13	2
7	13	16	2
8	16	17	2
9	17	20	2
10	20	21	2
11	21	23	2

**** S O I L P R O P E R T Y D A T A ****

Soil Type	Unit Weight	Void Ratio	Cc	Ccs	Cv	Cvs
1	122.00	0.37	0.29	0.03	7000.00	7000.00
2	122.00	0.37	0.19	0.03	7000.00	7000.00

**** S U B L A Y E R D A T A ****

Layer	Center Elev	Bottom Elev	Thick	Overbn Pressure	Precons Pressure	Soil Type
1	-25.00	-50.00	50.00	3050.00	3272.50	1
2	-75.00	-100.00	50.00	9150.00	9817.50	1
3	-125.00	-150.00	50.00	15250.00	16362.50	1
4	-175.00	-200.00	50.00	21350.00	22907.50	1
5	-225.00	-250.00	50.00	27138.00	29152.62	1
6	-275.00	-300.00	50.00	30118.00	32698.82	1
7	-325.00	-350.00	50.00	33098.00	36245.02	1
8	-375.00	-400.00	50.00	36078.00	39791.22	1
9	-425.00	-450.00	50.00	39058.00	43337.42	1
10	-475.00	-500.00	50.00	42038.00	46883.62	1
11	-525.00	-550.00	50.00	45018.00	50429.82	1
12	-575.00	-600.00	50.00	47998.00	53976.02	1
13	-625.00	-650.00	50.00	50978.00	57522.22	2
14	-675.00	-700.00	50.00	53958.00	61068.42	2
15	-725.00	-750.00	50.00	56938.00	64614.62	2
16	-775.00	-800.00	50.00	59918.00	68160.82	2
17	-825.00	-850.00	50.00	62898.00	71707.02	2
18	-875.00	-900.00	50.00	65878.00	75253.22	2
19	-925.00	-950.00	50.00	68858.00	78799.42	2
20	-975.00	-1000.00	50.00	71838.00	82345.62	2
21	-1025.00	-1050.00	50.00	74818.00	85891.82	2
22	-1075.00	-1100.00	50.00	77798.00	89438.02	2

**** Number of Loadcases to be Analysed: 9

**** L O A D C A S E : 1 ****
**** C h a n g e i n G r o u n d w a t e r E l e v a t i o n ****

Time intervals: 2.00 4.00

Old water elevation ..... -220.00
New water elevation ..... -220.00

Layer	Change in stress
1	0.00
2	0.00
3	0.00
4	0.00
5	0.00
6	0.00
7	0.00
8	0.00
9	0.00
10	0.00
11	0.00
12	0.00
13	0.00
14	0.00
15	0.00
16	0.00
17	0.00
18	0.00
19	0.00
20	0.00
21	0.00
22	0.00

Layer	Thick.	Void Ratio	Initial Pressure	Precons. Pressure	Final Pressure	Ult. Settl.
1	50.00	0.37	3050.00	3272.50	3050.00	0.000
2	50.00	0.37	9150.00	9817.50	9150.00	0.000
3	50.00	0.37	15250.00	16362.50	15250.00	0.000
4	50.00	0.37	21350.00	22907.50	21350.00	0.000
5	50.00	0.37	27138.00	29152.62	27138.00	0.000
6	50.00	0.37	30118.00	32698.82	30118.00	0.000
7	50.00	0.37	33098.00	36245.02	33098.00	0.000
8	50.00	0.37	36078.00	39791.22	36078.00	0.000
9	50.00	0.37	39058.00	43337.42	39058.00	0.000
10	50.00	0.37	42038.00	46883.62	42038.00	0.000
11	50.00	0.37	45018.00	50429.82	45018.00	0.000
12	50.00	0.37	47998.00	53976.02	47998.00	0.000
13	50.00	0.37	50978.00	57522.22	50978.00	0.000
14	50.00	0.37	53958.00	61068.42	53958.00	0.000
15	50.00	0.37	56938.00	64614.62	56938.00	0.000
16	50.00	0.37	59918.00	68160.82	59918.00	0.000
17	50.00	0.37	62898.00	71707.02	62898.00	0.000
18	50.00	0.37	65878.00	75253.22	65878.00	0.000
19	50.00	0.37	68858.00	78799.42	68858.00	0.000
20	50.00	0.37	71838.00	82345.62	71838.00	0.000
21	50.00	0.37	74818.00	85891.82	74818.00	0.000
22	50.00	0.37	77798.00	89438.02	77798.00	0.000

Ultimate settlement without correction for buoyancy : 0.000

**** Time since load was applied: 2.00 ****

Elevation	Effective Stress	Pore Pressure
-25.00	3050.00	0.00
-75.00	9150.00	0.00
-125.00	15250.00	0.00
-175.00	21350.00	0.00
-225.00	27138.00	0.00
-275.00	30118.00	0.00
-325.00	33098.00	0.00
-375.00	36078.00	0.00
-425.00	39058.00	0.00
-475.00	42038.00	0.00
-525.00	45018.00	0.00
-575.00	47998.00	0.00
-625.00	50978.00	0.00
-675.00	53958.00	0.00
-725.00	56938.00	0.00
-775.00	59918.00	0.00
-825.00	62898.00	0.00
-875.00	65878.00	0.00
-925.00	68858.00	0.00
-975.00	71838.00	0.00
-1025.00	74818.00	0.00
-1075.00	77798.00	0.00

**** Time since load was applied: 4.00 ****

Elevation	Effective Stress	Pore Pressure

-25.00	3050.00	0.00
-75.00	9150.00	0.00
-125.00	15250.00	0.00
-175.00	21350.00	0.00
-225.00	27138.00	0.00
-275.00	30118.00	0.00
-325.00	33098.00	0.00
-375.00	36078.00	0.00
-425.00	39058.00	0.00
-475.00	42038.00	0.00
-525.00	45018.00	0.00
-575.00	47998.00	0.00
-625.00	50978.00	0.00
-675.00	53958.00	0.00
-725.00	56938.00	0.00
-775.00	59918.00	0.00
-825.00	62898.00	0.00
-875.00	65878.00	0.00
-925.00	68858.00	0.00
-975.00	71838.00	0.00
-1025.00	74818.00	0.00
-1075.00	77798.00	0.00

For this load case		Accumulated		Surface
Time	Settlement	Time	Settlement	elevation
2.00	0.000	2.00	0.000	0.00
4.00	0.000	4.00	0.000	0.00

**** L O A D C A S E : 2 ****
**** C h a n g e i n G r o u n d w a t e r E l e v a t i o n ****

Time intervals: 2.00 4.00

Old water elevation ..... -220.00
New water elevation ..... -260.00

Layer	Change in stress
1	0.00
2	0.00
3	0.00
4	0.00
5	312.00
6	2496.00
7	2496.00
8	2496.00
9	2496.00
10	2496.00
11	2496.00
12	2496.00
13	2496.00
14	2496.00
15	2496.00
16	2496.00
17	2496.00
18	2496.00
19	2496.00
20	2496.00
21	2496.00
22	2496.00

Layer	Thick.	Void Ratio	Initial Pressure	Precons. Pressure	Final Pressure	Ult. Settl.
1	50.00	0.37	3050.00	3272.50	3050.00	0.000
2	50.00	0.37	9150.00	9817.50	9150.00	0.000
3	50.00	0.37	15250.00	16362.50	15250.00	0.000
4	50.00	0.37	21350.00	22907.50	21350.00	0.000
5	50.00	0.37	27138.00	29152.62	27450.00	0.005
6	50.00	0.37	30118.00	32698.82	32614.00	0.038
7	50.00	0.37	33098.00	36245.02	35594.00	0.035
8	50.00	0.37	36078.00	39791.22	38574.00	0.032
9	50.00	0.37	39058.00	43337.42	41554.00	0.029
10	50.00	0.37	42038.00	46883.62	44534.00	0.027
11	50.00	0.37	45018.00	50429.82	47514.00	0.026
12	50.00	0.37	47998.00	53976.02	50494.00	0.024
13	50.00	0.37	50978.00	57522.22	53474.00	0.023
14	50.00	0.37	53958.00	61068.42	56454.00	0.022
15	50.00	0.37	56938.00	64614.62	59434.00	0.020
16	50.00	0.37	59918.00	68160.82	62414.00	0.019
17	50.00	0.37	62898.00	71707.02	65394.00	0.019
18	50.00	0.37	65878.00	75253.22	68374.00	0.018
19	50.00	0.37	68858.00	78799.42	71354.00	0.017
20	50.00	0.37	71838.00	82345.62	74334.00	0.016
21	50.00	0.37	74818.00	85891.82	77314.00	0.016
22	50.00	0.37	77798.00	89438.02	80294.00	0.015

Ultimate settlement without correction for buoyancy : 0.401

**** Time since load was applied: 2.00 ****

Elevation	Effective Stress	Pore Pressure
-25.40	3050.00	0.00
-75.40	9150.00	0.00
-125.40	15250.00	0.00
-175.40	21428.00	0.00
-225.39	27915.04	2.95
-275.37	32061.94	6.06
-325.34	35590.89	3.10
-375.31	38574.00	0.00
-425.28	41550.13	3.87
-475.25	44526.11	7.89
-525.22	47509.98	4.01
-575.20	50494.00	0.00
-625.17	53470.09	3.91
-675.15	56446.06	7.93
-725.13	59429.98	4.02
-775.11	62414.00	0.00
-825.09	65390.07	3.93
-875.07	68366.04	7.96
-925.06	71349.97	4.02
-975.04	74334.00	0.00
-1025.02	77313.99	0.00
-1075.01	80293.99	0.00

**** Time since load was applied: 4.00 ****

Elevation	Effective Stress	Pore Pressure
-25.40	3050.00	0.00
-75.40	9150.00	0.00
-125.40	15250.00	0.00
-175.40	21428.00	0.00
-225.39	27917.99	0.01
-275.37	32067.99	0.01
-325.34	35594.00	0.01
-375.31	38574.00	0.00
-425.28	41553.99	0.01
-475.25	44533.98	0.01
-525.22	47513.99	0.01
-575.20	50494.00	0.00
-625.17	53473.99	0.01
-675.15	56453.97	0.01
-725.13	59433.99	0.01
-775.11	62414.00	0.00
-825.09	65394.00	0.01
-875.07	68373.98	0.01
-925.06	71353.98	0.01
-975.04	74334.00	0.00
-1025.02	77314.00	0.00
-1075.01	80294.00	0.00

For this load case Time	Settlement	Accumulated Time	Settlement	Surface elevation
2.00	0.402	6.00	0.402	-0.40
4.00	0.402	8.00	0.402	-0.40

**** L O A D C A S E : 3 ****
**** C h a n g e i n G r o u n d w a t e r E l e v a t i o n ****

Time intervals: 2.00 4.00

Old water elevation ..... -260.00
New water elevation ..... -300.00

Layer	Change in stress
1	0.00
2	0.00
3	0.00
4	0.00
5	0.00
6	959.23
7	2496.00
8	2496.00
9	2496.00
10	2496.00
11	2496.00
12	2496.00
13	2496.00

14	2496.00
15	2496.00
16	2496.00
17	2496.00
18	2496.00
19	2496.00
20	2496.00
21	2496.00
22	2496.00

Layer	Thick.	Void Ratio	Initial Pressure	Precons. Pressure	Final Pressure	Ult. Settl.
1	50.00	0.37	3050.00	3272.50	3050.00	0.000
2	50.00	0.37	9150.00	9817.50	9150.00	0.000
3	50.00	0.37	15250.00	16362.50	15250.00	0.000
4	50.00	0.37	21428.00	22907.50	21428.00	0.000
5	49.99	0.37	27917.99	29152.62	27918.00	0.000
6	49.97	0.37	32067.99	32698.82	33027.23	0.055
7	49.97	0.37	35594.00	36245.02	38090.00	0.237
8	49.97	0.37	38574.00	39791.22	41070.00	0.160
9	49.97	0.37	41553.99	43337.42	44050.00	0.095
10	49.97	0.37	44533.98	46883.62	47030.00	0.039
11	49.97	0.37	47513.99	50429.82	50010.00	0.024
12	49.98	0.37	50494.00	53976.02	52990.00	0.023
13	49.98	0.37	53473.99	57522.22	55970.00	0.022
14	49.98	0.37	56453.97	61068.42	58949.99	0.021
15	49.98	0.37	59433.99	64614.62	61930.00	0.020
16	49.98	0.37	62414.00	68160.82	64910.00	0.019
17	49.98	0.37	65394.00	71707.02	67890.00	0.018
18	49.98	0.37	68373.98	75253.22	70870.00	0.017
19	49.98	0.37	71353.98	78799.42	73849.98	0.016
20	49.98	0.37	74334.00	82345.62	76830.00	0.016
21	49.98	0.37	77314.00	85891.82	79810.00	0.015
22	49.98	0.37	80294.00	89438.02	82790.00	0.015

Ultimate settlement without correction for buoyancy : 0.811

**** Time since load was applied: 2.00 ****

Elevation	Effective Stress	Pore Pressure
-26.19	3050.00	0.00
-76.19	9150.00	0.00
-126.19	15250.00	0.00
-176.19	21428.00	0.00
-226.18	28156.29	1.56
-276.12	33168.46	3.20
-325.95	37704.17	1.65
-375.74	41070.00	0.00
-425.59	44046.16	3.84
-475.49	47022.18	7.82
-525.43	50006.02	3.98
-575.38	52990.00	0.00
-625.34	55966.10	3.90
-675.30	58942.09	7.90
-725.25	61925.99	4.00
-775.22	64910.00	0.00
-825.18	67886.07	3.92
-875.14	70862.07	7.93
-925.11	73845.98	4.01
-975.08	76830.00	0.00
-1025.04	79809.99	0.00
-1075.01	82789.99	0.00

**** Time since load was applied: 4.00 ****

Elevation	Effective Stress	Pore Pressure
-26.19	3050.00	0.00
-76.19	9150.00	0.00
-126.19	15250.00	0.00
-176.19	21428.00	0.00
-226.18	28157.84	0.00
-276.12	33171.66	0.01
-325.95	37705.81	0.00
-375.75	41070.00	0.00
-425.59	44050.00	0.01
-475.49	47029.99	0.01
-525.43	50009.98	0.01
-575.38	52990.00	0.00
-625.34	55969.99	0.01
-675.30	58949.97	0.01
-725.25	61929.99	0.01
-775.22	64910.00	0.00
-825.18	67889.98	0.01
-875.14	70869.98	0.01
-925.11	73849.98	0.01
-975.08	76830.00	0.00

-1025.05	79810.00	0.00
-1075.01	82790.00	0.00

For this load case Time	Settlement	Accumulated Time	Settlement	Surface elevation
2.00	0.786	10.00	1.189	-1.19
4.00	0.788	12.00	1.191	-1.19

**** L O A D C A S E : 4 ****
**** C h a n g e i n G r o u n d w a t e r E l e v a t i o n ****

Time intervals: 2.00 4.00

Old water elevation ..... -300.00
New water elevation ..... -331.00

Layer	Change in stress
1	0.00
2	0.00
3	0.00
4	0.00
5	0.00
6	0.00
7	1619.52
8	1934.40
9	1934.40
10	1934.41
11	1934.41
12	1934.41
13	1934.41
14	1934.41
15	1934.41
16	1934.41
17	1934.41
18	1934.41
19	1934.41
20	1934.41
21	1934.41
22	1934.41

Layer	Thick.	Void Ratio	Initial Pressure	Precons. Pressure	Final Pressure	Ult. Settl.
1	50.00	0.37	3050.00	3272.50	3050.00	0.000
2	50.00	0.37	9150.00	9817.50	9150.00	0.000
3	50.00	0.37	15250.00	16362.50	15250.00	0.000
4	50.00	0.37	21428.00	22907.50	21428.00	0.000
5	49.98	0.37	28157.84	29152.62	28157.84	0.000
6	49.89	0.37	33171.66	33171.66	33171.66	0.000
7	49.78	0.36	37705.81	37705.81	39325.33	0.193
8	49.81	0.36	41070.00	41070.00	43004.41	0.212
9	49.88	0.37	44050.00	44050.00	45984.41	0.198
10	49.93	0.37	47029.99	47029.99	48964.41	0.185
11	49.95	0.37	50009.98	50429.82	51944.40	0.140
12	49.95	0.37	52990.00	53976.02	54924.41	0.089
13	49.96	0.37	55969.99	57522.22	57904.40	0.033
14	49.96	0.37	58949.97	61068.42	60884.39	0.015
15	49.96	0.37	61929.99	64614.62	63864.40	0.015
16	49.96	0.37	64910.00	68160.82	66844.41	0.014
17	49.96	0.37	67889.98	71707.02	69824.39	0.013
18	49.97	0.37	70869.98	75253.22	72804.41	0.013
19	49.97	0.37	73849.98	78799.42	75784.39	0.012
20	49.97	0.37	76830.00	82345.62	78764.41	0.012
21	49.97	0.37	79810.00	85891.82	81744.41	0.011
22	49.97	0.37	82790.00	89438.02	84724.41	0.011

Ultimate settlement without correction for buoyancy : 1.167

**** Time since load was applied: 2.00 ****

Elevation	Effective Stress	Pore Pressure
-27.36	3050.00	0.00
-77.36	9150.00	0.00
-127.36	15250.00	0.00
-177.36	21428.00	0.00
-227.35	28150.34	7.50
-277.26	33563.75	13.28
-326.99	38993.86	5.78
-376.60	42925.66	0.00
-426.24	45966.53	17.88
-475.96	48921.96	42.45
-525.74	51919.83	24.57
-575.58	54924.41	0.00

-625.47	57901.39	3.01
-675.40	60878.30	6.10
-725.35	63861.32	3.09
-775.30	66844.41	0.00
-825.24	69821.36	3.03
-875.20	72798.27	6.12
-925.15	75781.30	3.09
-975.10	78764.41	0.00
-1025.06	81744.40	0.00
-1075.02	84724.40	0.00

**** Time since load was applied: 4.00 ****

Elevation	Effective Stress	Pore Pressure
-27.37	3050.00	0.00
-77.37	9150.00	0.00
-127.37	15250.00	0.00
-177.37	21428.00	0.00
-227.36	28157.65	0.19
-277.27	33576.70	0.33
-327.00	38999.49	0.15
-376.61	42925.66	0.00
-426.25	45984.09	0.32
-475.96	48963.64	0.77
-525.74	51943.96	0.45
-575.58	54924.41	0.00
-625.47	57904.39	0.01
-675.40	60884.38	0.01
-725.35	63864.40	0.01
-775.30	66844.41	0.00
-825.24	69824.38	0.01
-875.20	72804.38	0.01
-925.15	75784.38	0.01
-975.10	78764.41	0.00
-1025.06	81744.40	0.00
-1075.02	84724.40	0.00

For this load case		Accumulated		Surface
Time	Settlement	Time	Settlement	elevation
2.00	1.165	14.00	2.356	-2.36
4.00	1.176	16.00	2.367	-2.37

**** L O A D C A S E : 5 ****
**** C h a n g e i n G r o u n d w a t e r E l e v a t i o n ****

Time intervals: 2.00 4.00

Old water elevation ..... -331.00
New water elevation ..... -346.00

Layer	Change in stress
1	0.00
2	0.00
3	0.00
4	0.00
5	0.00
6	0.00
7	0.00
8	936.00
9	936.00
10	936.00
11	936.00
12	936.00
13	936.00
14	936.00
15	936.00
16	936.00
17	936.00
18	936.00
19	936.00
20	936.00
21	936.00
22	936.00

Layer	Thick.	Void Ratio	Initial Pressure	Precons. Pressure	Final Pressure	Ult. Settl.
1	50.00	0.37	3050.00	3272.50	3050.00	0.000
2	50.00	0.37	9150.00	9817.50	9150.00	0.000
3	50.00	0.37	15250.00	16362.50	15250.00	0.000
4	50.00	0.37	21428.00	22907.50	21428.00	0.000
5	49.98	0.37	28157.65	29152.62	28157.84	0.000
6	49.84	0.36	33576.70	33576.70	33577.03	0.000
7	49.62	0.36	38999.49	38999.49	38999.64	0.000

8	49.60	0.36	42925.66	42925.66	43861.66	0.099
9	49.68	0.36	45984.09	45984.09	46920.41	0.093
10	49.75	0.36	48963.64	48963.64	49900.41	0.087
11	49.81	0.36	51943.96	51943.96	52880.40	0.082
12	49.86	0.37	54924.41	54924.41	55860.41	0.078
13	49.92	0.37	57904.39	57904.39	58840.40	0.048
14	49.94	0.37	60884.38	61068.42	61820.39	0.038
15	49.95	0.37	63864.40	64614.62	64800.41	0.014
16	49.95	0.37	66844.41	68160.82	67780.41	0.007
17	49.95	0.37	69824.38	71707.02	70760.39	0.006
18	49.95	0.37	72804.38	75253.22	73740.39	0.006
19	49.95	0.37	75784.38	78799.42	76720.39	0.006
20	49.96	0.37	78764.41	82345.62	79700.41	0.006
21	49.96	0.37	81744.40	85891.82	82680.40	0.005
22	49.96	0.37	84724.40	89438.02	85660.40	0.005

Ultimate settlement without correction for buoyancy : 0.581

**** Time since load was applied: 2.00 ****

Elevation	Effective Stress	Pore Pressure
-27.95	3050.00	0.00
-77.95	9150.00	0.00
-127.95	15250.00	0.00
-177.95	21428.05	0.00
-227.94	28157.83	0.00
-277.85	33576.95	0.01
-327.57	39233.68	0.00
-377.13	43627.81	0.00
-426.68	46919.09	1.35
-476.31	49897.46	2.75
-526.00	52878.97	1.40
-575.76	55860.53	0.00
-625.59	58840.35	0.05
-675.48	61820.24	0.15
-725.40	64800.30	0.10
-775.33	67780.41	0.00
-825.28	70758.93	1.46
-875.22	73737.43	2.96
-925.17	76718.90	1.49
-975.12	79700.41	0.00
-1025.07	82680.39	0.00
-1075.02	85660.39	0.00

**** Time since load was applied: 4.00 ****

Elevation	Effective Stress	Pore Pressure
-27.95	3050.00	0.00
-77.95	9150.00	0.00
-127.95	15250.00	0.00
-177.95	21428.05	0.00
-227.94	28157.83	0.00
-277.85	33576.95	0.00
-327.57	39233.68	0.00
-377.13	43627.81	0.00
-426.69	46920.43	0.00
-476.31	49900.21	0.00
-526.00	52880.37	0.00
-575.76	55860.53	0.00
-625.59	58840.40	0.00
-675.48	61820.39	0.00
-725.40	64800.41	0.00
-775.33	67780.41	0.00
-825.28	70760.40	0.00
-875.22	73740.38	0.01
-925.17	76720.40	0.00
-975.12	79700.41	0.00
-1025.07	82680.39	0.00
-1075.02	85660.39	0.00

For this load case		Accumulated		Surface
Time	Settlement	Time	Settlement	elevation
2.00	0.583	18.00	2.950	-2.95
4.00	0.584	20.00	2.951	-2.95

**** L O A D C A S E : 6 ****
**** C h a n g e i n G r o u n d w a t e r E l e v a t i o n ****

Time intervals: 2.00 4.00

Old water elevation ..... -346.00
New water elevation ..... -366.00

Layer	Change in stress
1	0.00
2	0.00
3	0.00
4	0.00
5	0.00
6	0.00
7	0.00
8	1248.00
9	1248.00
10	1248.00
11	1248.00
12	1248.00
13	1248.00
14	1248.00
15	1248.00
16	1248.00
17	1248.00
18	1248.00
19	1248.00
20	1248.00
21	1248.00
22	1248.00

Layer	Thick.	Void Ratio	Initial Pressure	Precons. Pressure	Final Pressure	Ult. Settl.
1	50.00	0.37	3050.00	3272.50	3050.00	0.000
2	50.00	0.37	9150.00	9817.50	9150.00	0.000
3	50.00	0.37	15250.00	16362.50	15250.00	0.000
4	50.00	0.37	21428.05	22907.50	21428.05	0.000
5	49.98	0.37	28157.83	29152.62	28157.83	0.000
6	49.84	0.36	33576.95	33576.95	33576.95	0.000
7	49.59	0.36	39233.68	39233.68	39233.68	0.000
8	49.53	0.36	43627.81	43627.81	44875.81	0.130
9	49.59	0.36	46920.43	46920.43	48168.44	0.121
10	49.66	0.36	49900.21	49900.21	51148.22	0.114
11	49.73	0.36	52880.37	52880.37	54128.37	0.107
12	49.79	0.36	55860.53	55860.53	57108.53	0.102
13	49.87	0.37	58840.40	58840.40	60088.40	0.063
14	49.90	0.37	61820.39	61820.39	63068.39	0.060
15	49.93	0.37	64800.41	64800.41	66048.41	0.057
16	49.94	0.37	67780.41	68160.82	69028.41	0.041
17	49.94	0.37	70760.40	71707.02	72008.40	0.019
18	49.95	0.37	73740.38	75253.22	74988.38	0.008
19	49.95	0.37	76720.40	78799.42	77968.40	0.008
20	49.95	0.37	79700.41	82345.62	80948.41	0.007
21	49.95	0.37	82680.39	85891.82	83928.39	0.007
22	49.95	0.37	85660.39	89438.02	86908.39	0.007

Ultimate settlement without correction for buoyancy : 0.851

**** Time since load was applied: 2.00 ****

Elevation	Effective Stress	Pore Pressure
-28.80	3050.00	0.00
-78.80	9150.00	0.00
-128.80	15250.00	0.00
-178.80	21428.05	0.00
-228.79	28157.83	0.00
-278.70	33576.95	0.00
-328.40	39545.88	0.00
-377.90	44564.01	0.00
-427.34	48166.69	1.76
-476.85	51144.64	3.57
-526.44	54126.55	1.82
-576.09	57108.53	0.00
-625.84	60086.50	1.90
-675.66	63064.54	3.85
-725.52	66046.46	1.95
-775.41	69028.41	0.00
-825.32	72006.45	1.95
-875.25	74984.45	3.94
-925.19	77966.41	1.99
-975.14	80948.41	0.00
-1025.08	83928.40	0.00
-1075.03	86908.40	0.00

**** Time since load was applied: 4.00 ****

Elevation	Effective Stress	Pore Pressure
-28.81	3050.00	0.00
-78.81	9150.00	0.00
-128.81	15250.00	0.00
-178.81	21428.05	0.00

-228.80	28157.83	0.00
-278.71	33576.95	0.00
-328.40	39545.88	0.00
-377.90	44564.01	0.00
-427.35	48168.44	0.00
-476.85	51148.21	0.01
-526.44	54128.37	0.00
-576.09	57108.53	0.00
-625.84	60088.40	0.00
-675.66	63068.38	0.01
-725.52	66048.41	0.00
-775.41	69028.41	0.00
-825.32	72008.38	0.00
-875.25	74988.38	0.01
-925.19	77968.39	0.00
-975.14	80948.41	0.00
-1025.08	83928.40	0.00
-1075.03	86908.40	0.00

For this load case		Accumulated		Surface
Time	Settlement	Time	Settlement	elevation
2.00	0.854	22.00	3.805	-3.80
4.00	0.855	24.00	3.806	-3.81

**** L O A D C A S E : 7 ****
**** C h a n g e i n G r o u n d w a t e r E l e v a t i o n ****

Time intervals: 2.00 4.00

Old water elevation ..... -366.00
New water elevation ..... -400.00

Layer	Change in stress
1	0.00
2	0.00
3	0.00
4	0.00
5	0.00
6	0.00
7	0.00
8	742.41
9	2121.60
10	2121.60
11	2121.60
12	2121.60
13	2121.60
14	2121.60
15	2121.60
16	2121.60
17	2121.60
18	2121.60
19	2121.60
20	2121.60
21	2121.60
22	2121.60

Layer	Thick.	Void Ratio	Initial Pressure	Precons. Pressure	Final Pressure	Ult. Settl.
1	50.00	0.37	3050.00	3272.50	3050.00	0.000
2	50.00	0.37	9150.00	9817.50	9150.00	0.000
3	50.00	0.37	15250.00	16362.50	15250.00	0.000
4	50.00	0.37	21428.05	22907.50	21428.05	0.000
5	49.98	0.37	28157.83	29152.62	28157.83	0.000
6	49.84	0.36	33576.95	33576.95	33576.95	0.000
7	49.56	0.36	39545.88	39545.88	39545.88	0.000
8	49.43	0.35	44564.01	44564.01	45306.42	0.076
9	49.46	0.35	48168.44	48168.44	50290.05	0.198
10	49.55	0.36	51148.21	51148.21	53269.82	0.187
11	49.62	0.36	54128.37	54128.37	56249.97	0.177
12	49.68	0.36	57108.53	57108.53	59230.13	0.168
13	49.81	0.36	60088.40	60088.40	62210.00	0.105
14	49.84	0.36	63068.38	63068.38	65189.99	0.100
15	49.87	0.37	66048.41	66048.41	68170.01	0.095
16	49.90	0.37	69028.41	69028.41	71150.02	0.091
17	49.92	0.37	72008.38	72008.38	74129.98	0.088
18	49.94	0.37	74988.38	75253.22	77109.98	0.075
19	49.94	0.37	77968.39	78799.42	80089.99	0.054
20	49.94	0.37	80948.41	82345.62	83070.01	0.035
21	49.95	0.37	83928.40	85891.82	86050.00	0.017
22	49.95	0.37	86908.40	89438.02	89030.00	0.011

Ultimate settlement without correction for buoyancy : 1.476

**** Time since load was applied: 2.00 ****

Elevation	Effective Stress	Pore Pressure
-30.29	3050.00	0.00
-80.29	9150.00	0.00
-130.29	15250.00	0.00
-180.29	21428.05	0.00
-230.28	28157.83	0.00
-280.19	33576.95	0.00
-329.87	39731.71	0.00
-379.31	45465.74	0.00
-428.63	49942.27	2.87
-477.96	53263.99	5.83
-527.36	56247.01	2.96
-576.84	59230.13	0.00
-626.45	62206.84	3.16
-676.18	65183.59	6.40
-725.94	68166.78	3.24
-775.73	71150.02	0.00
-825.56	74129.87	0.12
-875.41	77109.64	0.34
-925.28	80089.78	0.23
-975.18	83070.01	0.00
-1025.10	86049.99	0.00
-1075.03	89029.99	0.00

**** Time since load was applied: 4.00 ****

Elevation	Effective Stress	Pore Pressure
-30.29	3050.00	0.00
-80.29	9150.00	0.00
-130.29	15250.00	0.00
-180.29	21428.05	0.00
-230.28	28157.83	0.00
-280.19	33576.95	0.00
-329.87	39731.71	0.00
-379.31	45465.74	0.00
-428.63	49945.14	0.00
-477.96	53269.81	0.01
-527.36	56249.96	0.00
-576.84	59230.13	0.00
-626.45	62209.99	0.01
-676.18	65189.98	0.01
-725.94	68170.02	0.01
-775.73	71150.02	0.00
-825.56	74129.98	0.00
-875.41	77109.98	0.00
-925.28	80090.01	0.00
-975.18	83070.01	0.00
-1025.10	86049.99	0.00
-1075.03	89029.99	0.00

For this load case		Accumulated		Surface
Time	Settlement	Time	Settlement	elevation
2.00	1.480	26.00	5.286	-5.29
4.00	1.482	28.00	5.288	-5.29

**** L O A D C A S E : 8 ****
**** C h a n g e i n G r o u n d w a t e r E l e v a t i o n ****

Time intervals: 2.00 4.00

Old water elevation ..... -400.00
New water elevation ..... -500.00

Layer	Change in stress
1	0.00
2	0.00
3	0.00
4	0.00
5	0.00
6	0.00
7	0.00
8	0.00
9	1786.57
10	4864.71
11	6240.00
12	6240.00
13	6240.01
14	6240.01
15	6240.00
16	6240.00
17	6240.00
18	6240.00

19	6240.00
20	6240.00
21	6240.00
22	6240.00

Layer	Thick.	Void Ratio	Initial Pressure	Precons. Pressure	Final Pressure	Ult. Settl.
1	50.00	0.37	3050.00	3272.50	3050.00	0.000
2	50.00	0.37	9150.00	9817.50	9150.00	0.000
3	50.00	0.37	15250.00	16362.50	15250.00	0.000
4	50.00	0.37	21428.05	22907.50	21428.05	0.000
5	49.98	0.37	28157.83	29152.62	28157.83	0.000
6	49.84	0.36	33576.95	33576.95	33576.95	0.000
7	49.53	0.36	39731.71	39731.71	39731.71	0.000
8	49.34	0.35	45465.74	45465.74	45465.74	0.000
9	49.30	0.35	49945.14	49945.14	51731.71	0.162
10	49.36	0.35	53269.81	53269.81	58134.52	0.402
11	49.44	0.35	56249.96	56249.96	62489.97	0.484
12	49.52	0.36	59230.13	59230.13	65470.14	0.461
13	49.71	0.36	62209.99	62209.99	68450.00	0.288
14	49.74	0.36	65189.98	65189.98	71430.00	0.275
15	49.78	0.36	68170.02	68170.02	74410.02	0.264
16	49.81	0.36	71150.02	71150.02	77390.02	0.253
17	49.84	0.36	74129.98	74129.98	80369.98	0.244
18	49.86	0.37	77109.98	77109.98	83349.98	0.235
19	49.89	0.37	80090.01	80090.01	86330.01	0.226
20	49.91	0.37	83070.01	83070.01	89310.01	0.218
21	49.93	0.37	86049.99	86049.99	92289.99	0.211
22	49.94	0.37	89029.99	89438.02	95269.99	0.193

Ultimate settlement without correction for buoyancy : 3.915

**** Time since load was applied: 2.00 ****

Elevation	Effective Stress	Pore Pressure
-34.21	3050.00	0.00
-84.21	9150.00	0.00
-134.21	15250.00	0.00
-184.21	21428.05	0.00
-234.20	28157.83	0.00
-284.11	33576.95	0.00
-333.80	39731.71	0.00
-383.21	45912.57	0.00
-432.42	52048.82	5.48
-481.47	57696.91	11.12
-530.46	62140.22	5.64
-579.48	65470.14	0.00
-628.71	68441.25	8.75
-678.16	71412.27	17.73
-727.65	74401.05	8.97
-777.19	77390.02	0.00
-826.76	80360.86	9.13
-876.37	83331.55	18.44
-926.02	86320.70	9.32
-975.69	89310.01	0.00
-1025.40	92289.99	0.01
-1075.13	95269.99	0.01

**** Time since load was applied: 4.00 ****

Elevation	Effective Stress	Pore Pressure
-34.22	3050.00	0.00
-84.22	9150.00	0.00
-134.22	15250.00	0.00
-184.22	21428.05	0.00
-234.21	28157.83	0.00
-284.12	33576.95	0.00
-333.80	39731.71	0.00
-383.22	45912.57	0.00
-432.42	52054.29	0.01
-481.47	57708.02	0.01
-530.46	62145.86	0.01
-579.48	65470.14	0.00
-628.72	68449.98	0.01
-678.16	71429.96	0.03
-727.65	74410.01	0.01
-777.19	77390.02	0.00
-826.76	80369.98	0.01
-876.37	83349.98	0.03
-926.02	86330.00	0.01
-975.69	89310.01	0.00
-1025.40	92290.00	0.00
-1075.13	95270.00	0.00

For this load case | Accumulated | Surface

Time	Settlement	Time	Settlement	elevation
2.00	3.925	30.00	9.213	-9.21
4.00	3.930	32.00	9.217	-9.22

**** L O A D C A S E : 9 ****
**** C h a n g e i n G r o u n d w a t e r E l e v a t i o n ****

Time intervals: 2.00

Old water elevation ..... -500.00
New water elevation ..... -666.00

Layer	Change in stress
1	0.00
2	0.00
3	0.00
4	0.00
5	0.00
6	0.00
7	0.00
8	0.00
9	0.00
10	0.00
11	1900.65
12	4959.54
13	8031.94
14	10358.40
15	10358.41
16	10358.41
17	10358.41
18	10358.41
19	10358.41
20	10358.41
21	10358.41
22	10358.41

Layer	Thick.	Void Ratio	Initial Pressure	Precons. Pressure	Final Pressure	Ult. Settl.
1	50.00	0.37	3050.00	3272.50	3050.00	0.000
2	50.00	0.37	9150.00	9817.50	9150.00	0.000
3	50.00	0.37	15250.00	16362.50	15250.00	0.000
4	50.00	0.37	21428.05	22907.50	21428.05	0.000
5	49.98	0.37	28157.83	29152.62	28157.83	0.000
6	49.84	0.36	33576.95	33576.95	33576.95	0.000
7	49.53	0.36	39731.71	39731.71	39731.71	0.000
8	49.30	0.35	45912.57	45912.57	45912.57	0.000
9	49.11	0.34	52054.29	52054.29	52054.30	0.000
10	48.99	0.34	57708.02	57708.02	57708.03	0.000
11	48.99	0.34	62145.86	62145.86	64046.51	0.139
12	49.06	0.34	65470.14	65470.14	70429.67	0.336
13	49.42	0.35	68449.98	68449.98	76481.94	0.334
14	49.47	0.35	71429.96	71429.96	81788.38	0.408
15	49.51	0.36	74410.01	74410.01	84768.43	0.393
16	49.56	0.36	77390.02	77390.02	87748.42	0.379
17	49.59	0.36	80369.98	80369.98	90728.40	0.365
18	49.63	0.36	83349.98	83349.98	93708.41	0.353
19	49.66	0.36	86330.00	86330.00	96688.42	0.342
20	49.69	0.36	89310.01	89310.01	99668.41	0.331
21	49.72	0.36	92290.00	92290.00	102648.41	0.321
22	49.74	0.36	95270.00	95270.00	105628.41	0.311

Ultimate settlement without correction for buoyancy : 4.011

**** Time since load was applied: 2.00 ****

Elevation	Effective Stress	Pore Pressure
-38.25	3050.00	0.00
-88.25	9150.00	0.00
-138.25	15250.00	0.00
-188.25	21428.05	0.00
-238.24	28157.83	0.00
-288.15	33576.95	0.00
-337.84	39731.71	0.00
-387.26	45912.58	0.00
-436.46	52053.76	0.54
-485.49	58182.12	1.10
-534.38	64334.99	0.56
-583.15	70429.68	0.00
-632.06	76279.77	12.56
-681.14	81181.06	25.40
-730.25	84755.60	12.84
-779.40	87748.43	0.00
-828.60	90714.44	13.96

-877.85	93680.22	28.19
-927.15	96674.18	14.23
-976.49	99668.42	0.00
-1025.87	102648.40	0.01
-1075.28	105628.40	0.01

For this load case		Accumulated		Surface
Time	Settlement	Time	Settlement	elevation
2.00	4.036	34.00	13.253	-13.25

**** Complete Time Settlement Record ****

Time	Settlement	
2.00	0.000	220
4.00	0.000	
6.00	0.402	260
8.00	0.402	
10.00	1.189	300
12.00	1.191	
14.00	2.356	331
16.00	2.367	
18.00	2.950	376
20.00	2.951	
22.00	3.805	366
24.00	3.806	
26.00	5.286	400
28.00	5.288	
30.00	9.213	500
32.00	9.217	
34.00	13.253	666

UPPER BOUND

==========
CONSOL - 1d Consolidation Analysis Program
Version 3.0
Virginia Tech, Department of Civil Engineering
==========

220
260
300
331
346
366
466
500
595

Date: 08/10/2004
Input file : C:\Program Files\Consol\Cc & Cr OCR=1.cns
Output file: C:\Program Files\Consol\Cc & Cr OCR=1.out
Plot file : C:\Program Files\Consol\Cc & Cr OCR=1.dat

Title : White Tanks FRS No. 3 Remediation

**** C O N T R O L D A T A ****

Number of compressible units	11
Number of soil layers	22
Number of different soils	2
Elevation of the ground surface	0.00
Elevation of the top of the compressible soil mass	0.00
Ground water elevation	-220.00
Unit weight of water	62.40
Moist unit wt. of soil btwn grn. surf. & comp. soil mass ...	110.00
Satur. unit wt. of soil btwn grn. surf. & comp. soil mass ..	122.00

**** U N I T B O U N D A R Y D A T A ****

Unit Number	Top Boundary	Bottom Boundary	Drainage Condition
1	1	4	2
2	4	5	2
3	5	8	2
4	8	9	2
5	9	12	2
6	12	13	2
7	13	16	2
8	16	17	2
9	17	20	2
10	20	21	2
11	21	23	2

**** S O I L P R O P E R T Y D A T A ****

Soil Type	Unit Weight	Void Ratio	Cc	Ccs	Cv	Cvs
1	122.00	0.37	0.29	0.03	7000.00	7000.00
2	122.00	0.37	0.19	0.03	7000.00	7000.00

**** S U B L A Y E R D A T A ****

Layer	Center Elev	Bottom Elev	Thick	Overbn Pressure	Precons Pressure	Soil Type
1	-25.00	-50.00	50.00	3050.00	3272.50	1
2	-75.00	-100.00	50.00	9150.00	9817.50	1
3	-125.00	-150.00	50.00	15250.00	16362.50	1
4	-175.00	-200.00	50.00	21350.00	22907.50	1
5	-225.00	-250.00	50.00	27138.00	29152.62	1
6	-275.00	-300.00	50.00	30118.00	32698.82	1
7	-325.00	-350.00	50.00	33098.00	36245.02	1
8	-375.00	-400.00	50.00	36078.00	39791.22	1
9	-425.00	-450.00	50.00	39058.00	43337.42	1
10	-475.00	-500.00	50.00	42038.00	46883.62	1
11	-525.00	-550.00	50.00	45018.00	50429.82	1
12	-575.00	-600.00	50.00	47998.00	53976.02	1
13	-625.00	-650.00	50.00	50978.00	57522.22	2
14	-675.00	-700.00	50.00	53958.00	61068.42	2
15	-725.00	-750.00	50.00	56938.00	64614.62	2
16	-775.00	-800.00	50.00	59918.00	68160.82	2
17	-825.00	-850.00	50.00	62898.00	71707.02	2
18	-875.00	-900.00	50.00	65878.00	75253.22	2
19	-925.00	-950.00	50.00	68858.00	78799.42	2
20	-975.00	-1000.00	50.00	71838.00	82345.62	2
21	-1025.00	-1050.00	50.00	74818.00	85891.82	2
22	-1075.00	-1100.00	50.00	77798.00	89438.02	2

**** Number of Loadcases to be Analysed: 9

**** L O A D C A S E : 1 ****
**** C h a n g e i n G r o u n d w a t e r E l e v a t i o n ****

Time intervals: 2.00 4.00

Old water elevation ..... -220.00
New water elevation ..... -220.00

Layer	Change in stress
1	0.00
2	0.00
3	0.00
4	0.00
5	0.00
6	0.00
7	0.00
8	0.00
9	0.00
10	0.00
11	0.00
12	0.00
13	0.00
14	0.00
15	0.00
16	0.00
17	0.00
18	0.00
19	0.00
20	0.00
21	0.00
22	0.00

Layer	Thick.	Void Ratio	Initial Pressure	Precons. Pressure	Final Pressure	Ult. Settl.
1	50.00	0.37	3050.00	3272.50	3050.00	0.000
2	50.00	0.37	9150.00	9817.50	9150.00	0.000
3	50.00	0.37	15250.00	16362.50	15250.00	0.000
4	50.00	0.37	21350.00	22907.50	21350.00	0.000
5	50.00	0.37	27138.00	29152.62	27138.00	0.000
6	50.00	0.37	30118.00	32698.82	30118.00	0.000
7	50.00	0.37	33098.00	36245.02	33098.00	0.000
8	50.00	0.37	36078.00	39791.22	36078.00	0.000
9	50.00	0.37	39058.00	43337.42	39058.00	0.000
10	50.00	0.37	42038.00	46883.62	42038.00	0.000
11	50.00	0.37	45018.00	50429.82	45018.00	0.000
12	50.00	0.37	47998.00	53976.02	47998.00	0.000
13	50.00	0.37	50978.00	57522.22	50978.00	0.000
14	50.00	0.37	53958.00	61068.42	53958.00	0.000
15	50.00	0.37	56938.00	64614.62	56938.00	0.000
16	50.00	0.37	59918.00	68160.82	59918.00	0.000
17	50.00	0.37	62898.00	71707.02	62898.00	0.000
18	50.00	0.37	65878.00	75253.22	65878.00	0.000
19	50.00	0.37	68858.00	78799.42	68858.00	0.000
20	50.00	0.37	71838.00	82345.62	71838.00	0.000
21	50.00	0.37	74818.00	85891.82	74818.00	0.000
22	50.00	0.37	77798.00	89438.02	77798.00	0.000

Ultimate settlement without correction for buoyancy : 0.000

**** Time since load was applied: 2.00 ****

Elevation	Effective Stress	Pore Pressure
-25.00	3050.00	0.00
-75.00	9150.00	0.00
-125.00	15250.00	0.00
-175.00	21350.00	0.00
-225.00	27138.00	0.00
-275.00	30118.00	0.00
-325.00	33098.00	0.00
-375.00	36078.00	0.00
-425.00	39058.00	0.00
-475.00	42038.00	0.00
-525.00	45018.00	0.00
-575.00	47998.00	0.00
-625.00	50978.00	0.00
-675.00	53958.00	0.00
-725.00	56938.00	0.00
-775.00	59918.00	0.00
-825.00	62898.00	0.00
-875.00	65878.00	0.00
-925.00	68858.00	0.00
-975.00	71838.00	0.00
-1025.00	74818.00	0.00
-1075.00	77798.00	0.00

**** Time since load was applied: 4.00 ****

Elevation	Effective Stress	Pore Pressure

-25.00	3050.00	0.00
-75.00	9150.00	0.00
-125.00	15250.00	0.00
-175.00	21350.00	0.00
-225.00	27138.00	0.00
-275.00	30118.00	0.00
-325.00	33098.00	0.00
-375.00	36078.00	0.00
-425.00	39058.00	0.00
-475.00	42038.00	0.00
-525.00	45018.00	0.00
-575.00	47998.00	0.00
-625.00	50978.00	0.00
-675.00	53958.00	0.00
-725.00	56938.00	0.00
-775.00	59918.00	0.00
-825.00	62898.00	0.00
-875.00	65878.00	0.00
-925.00	68858.00	0.00
-975.00	71838.00	0.00
-1025.00	74818.00	0.00
-1075.00	77798.00	0.00

For this load case		Accumulated		Surface
Time	Settlement	Time	Settlement	elevation
2.00	0.000	2.00	0.000	0.00
4.00	0.000	4.00	0.000	0.00

**** L O A D C A S E : 2 ****
**** C h a n g e i n G r o u n d w a t e r E l e v a t i o n ****

Time intervals: 2.00 4.00

Old water elevation ..... -220.00
New water elevation ..... -260.00

Layer	Change in stress
1	0.00
2	0.00
3	0.00
4	0.00
5	312.00
6	2496.00
7	2496.00
8	2496.00
9	2496.00
10	2496.00
11	2496.00
12	2496.00
13	2496.00
14	2496.00
15	2496.00
16	2496.00
17	2496.00
18	2496.00
19	2496.00
20	2496.00
21	2496.00
22	2496.00

Layer	Thick.	Void Ratio	Initial Pressure	Precons. Pressure	Final Pressure	Ult. Settl.
1	50.00	0.37	3050.00	3272.50	3050.00	0.000
2	50.00	0.37	9150.00	9817.50	9150.00	0.000
3	50.00	0.37	15250.00	16362.50	15250.00	0.000
4	50.00	0.37	21350.00	22907.50	21350.00	0.000
5	50.00	0.37	27138.00	29152.62	27450.00	0.005
6	50.00	0.37	30118.00	32698.82	32614.00	0.038
7	50.00	0.37	33098.00	36245.02	35594.00	0.035
8	50.00	0.37	36078.00	39791.22	38574.00	0.032
9	50.00	0.37	39058.00	43337.42	41554.00	0.029
10	50.00	0.37	42038.00	46883.62	44534.00	0.027
11	50.00	0.37	45018.00	50429.82	47514.00	0.026
12	50.00	0.37	47998.00	53976.02	50494.00	0.024
13	50.00	0.37	50978.00	57522.22	53474.00	0.023
14	50.00	0.37	53958.00	61068.42	56454.00	0.022
15	50.00	0.37	56938.00	64614.62	59434.00	0.020
16	50.00	0.37	59918.00	68160.82	62414.00	0.019
17	50.00	0.37	62898.00	71707.02	65394.00	0.019
18	50.00	0.37	65878.00	75253.22	68374.00	0.018
19	50.00	0.37	68858.00	78799.42	71354.00	0.017
20	50.00	0.37	71838.00	82345.62	74334.00	0.016
21	50.00	0.37	74818.00	85891.82	77314.00	0.016
22	50.00	0.37	77798.00	89438.02	80294.00	0.015

Ultimate settlement without correction for buoyancy : 0.401

**** Time since load was applied: 2.00 ****

Elevation	Effective Stress	Pore Pressure
-25.40	3050.00	0.00
-75.40	9150.00	0.00
-125.40	15250.00	0.00
-175.40	21428.00	0.00
-225.39	27915.04	2.95
-275.37	32061.94	6.06
-325.34	35590.89	3.10
-375.31	38574.00	0.00
-425.28	41550.13	3.87
-475.25	44526.11	7.89
-525.22	47509.98	4.01
-575.20	50494.00	0.00
-625.17	53470.09	3.91
-675.15	56446.06	7.93
-725.13	59429.98	4.02
-775.11	62414.00	0.00
-825.09	65390.07	3.93
-875.07	68366.04	7.96
-925.06	71349.97	4.02
-975.04	74334.00	0.00
-1025.02	77313.99	0.00
-1075.01	80293.99	0.00

**** Time since load was applied: 4.00 ****

Elevation	Effective Stress	Pore Pressure
-25.40	3050.00	0.00
-75.40	9150.00	0.00
-125.40	15250.00	0.00
-175.40	21428.00	0.00
-225.39	27917.99	0.01
-275.37	32067.99	0.01
-325.34	35594.00	0.01
-375.31	38574.00	0.00
-425.28	41553.99	0.01
-475.25	44533.98	0.01
-525.22	47513.99	0.01
-575.20	50494.00	0.00
-625.17	53473.99	0.01
-675.15	56453.97	0.01
-725.13	59433.99	0.01
-775.11	62414.00	0.00
-825.09	65394.00	0.01
-875.07	68373.98	0.01
-925.06	71353.98	0.01
-975.04	74334.00	0.00
-1025.02	77314.00	0.00
-1075.01	80294.00	0.00

For this load case		Accumulated		Surface
Time	Settlement	Time	Settlement	elevation
2.00	0.402	6.00	0.402	-0.40
4.00	0.402	8.00	0.402	-0.40

**** L O A D C A S E : 3 ****
**** C h a n g e i n G r o u n d w a t e r E l e v a t i o n ****

Time intervals: 2.00 4.00

Old water elevation ..... -260.00
New water elevation ..... -300.00

Layer	Change in stress
1	0.00
2	0.00
3	0.00
4	0.00
5	0.00
6	959.23
7	2496.00
8	2496.00
9	2496.00
10	2496.00
11	2496.00
12	2496.00
13	2496.00

14	2496.00
15	2496.00
16	2496.00
17	2496.00
18	2496.00
19	2496.00
20	2496.00
21	2496.00
22	2496.00

Layer	Thick.	Void Ratio	Initial Pressure	Precons. Pressure	Final Pressure	Ult. Settl.
1	50.00	0.37	3050.00	3272.50	3050.00	0.000
2	50.00	0.37	9150.00	9817.50	9150.00	0.000
3	50.00	0.37	15250.00	16362.50	15250.00	0.000
4	50.00	0.37	21428.00	22907.50	21428.00	0.000
5	49.99	0.37	27917.99	29152.62	27918.00	0.000
6	49.97	0.37	32067.99	32698.82	33027.23	0.055
7	49.97	0.37	35594.00	36245.02	38090.00	0.237
8	49.97	0.37	38574.00	39791.22	41070.00	0.160
9	49.97	0.37	41553.99	43337.42	44050.00	0.095
10	49.97	0.37	44533.98	46883.62	47030.00	0.039
11	49.97	0.37	47513.99	50429.82	50010.00	0.024
12	49.98	0.37	50494.00	53976.02	52990.00	0.023
13	49.98	0.37	53473.99	57522.22	55970.00	0.022
14	49.98	0.37	56453.97	61068.42	58949.99	0.021
15	49.98	0.37	59433.99	64614.62	61930.00	0.020
16	49.98	0.37	62414.00	68160.82	64910.00	0.019
17	49.98	0.37	65394.00	71707.02	67890.00	0.018
18	49.98	0.37	68373.98	75253.22	70870.00	0.017
19	49.98	0.37	71353.98	78799.42	73849.98	0.016
20	49.98	0.37	74334.00	82345.62	76830.00	0.016
21	49.98	0.37	77314.00	85891.82	79810.00	0.015
22	49.98	0.37	80294.00	89438.02	82790.00	0.015

Ultimate settlement without correction for buoyancy : 0.811

**** Time since load was applied: 2.00 ****

Elevation	Effective Stress	Pore Pressure
-26.19	3050.00	0.00
-76.19	9150.00	0.00
-126.19	15250.00	0.00
-176.19	21428.00	0.00
-226.18	28156.29	1.56
-276.12	33168.46	3.20
-325.95	37704.17	1.65
-375.74	41070.00	0.00
-425.59	44046.16	3.84
-475.49	47022.18	7.82
-525.43	50006.02	3.98
-575.38	52990.00	0.00
-625.34	55966.10	3.90
-675.30	58942.09	7.90
-725.25	61925.99	4.00
-775.22	64910.00	0.00
-825.18	67886.07	3.92
-875.14	70862.07	7.93
-925.11	73845.98	4.01
-975.08	76830.00	0.00
-1025.04	79809.99	0.00
-1075.01	82789.99	0.00

**** Time since load was applied: 4.00 ****

Elevation	Effective Stress	Pore Pressure
-26.19	3050.00	0.00
-76.19	9150.00	0.00
-126.19	15250.00	0.00
-176.19	21428.00	0.00
-226.18	28157.84	0.00
-276.12	33171.66	0.01
-325.95	37705.81	0.00
-375.75	41070.00	0.00
-425.59	44050.00	0.01
-475.49	47029.99	0.01
-525.43	50009.98	0.01
-575.38	52990.00	0.00
-625.34	55969.99	0.01
-675.30	58949.97	0.01
-725.25	61929.99	0.01
-775.22	64910.00	0.00
-825.18	67889.98	0.01
-875.14	70869.98	0.01
-925.11	73849.98	0.01
-975.08	76830.00	0.00

-1025.05	79810.00	0.00
-1075.01	82790.00	0.00

For this load case Time	Settlement	Accumulated Time	Settlement	Surface elevation
2.00	0.786	10.00	1.189	-1.19
4.00	0.788	12.00	1.191	-1.19

**** L O A D C A S E : 4 ****
**** C h a n g e i n G r o u n d w a t e r E l e v a t i o n ****

Time intervals: 2.00 4.00

Old water elevation ..... -300.00
New water elevation ..... -331.00

Layer	Change in stress
1	0.00
2	0.00
3	0.00
4	0.00
5	0.00
6	0.00
7	1619.52
8	1934.40
9	1934.40
10	1934.41
11	1934.41
12	1934.41
13	1934.41
14	1934.41
15	1934.41
16	1934.41
17	1934.41
18	1934.41
19	1934.41
20	1934.41
21	1934.41
22	1934.41

Layer	Thick.	Void Ratio	Initial Pressure	Precons. Pressure	Final Pressure	Ult. Settl.
1	50.00	0.37	3050.00	3272.50	3050.00	0.000
2	50.00	0.37	9150.00	9817.50	9150.00	0.000
3	50.00	0.37	15250.00	16362.50	15250.00	0.000
4	50.00	0.37	21428.00	22907.50	21428.00	0.000
5	49.98	0.37	28157.84	29152.62	28157.84	0.000
6	49.89	0.37	33171.66	33171.66	33171.66	0.000
7	49.78	0.36	37705.81	37705.81	39325.33	0.193
8	49.81	0.36	41070.00	41070.00	43004.41	0.212
9	49.88	0.37	44050.00	44050.00	45984.41	0.198
10	49.93	0.37	47029.99	47029.99	48964.41	0.185
11	49.95	0.37	50009.98	50429.82	51944.40	0.140
12	49.95	0.37	52990.00	53976.02	54924.41	0.089
13	49.96	0.37	55969.99	57522.22	57904.40	0.033
14	49.96	0.37	58949.97	61068.42	60884.39	0.015
15	49.96	0.37	61929.99	64614.62	63864.40	0.015
16	49.96	0.37	64910.00	68160.82	66844.41	0.014
17	49.96	0.37	67889.98	71707.02	69824.39	0.013
18	49.97	0.37	70869.98	75253.22	72804.41	0.013
19	49.97	0.37	73849.98	78799.42	75784.39	0.012
20	49.97	0.37	76830.00	82345.62	78764.41	0.012
21	49.97	0.37	79810.00	85891.82	81744.41	0.011
22	49.97	0.37	82790.00	89438.02	84724.41	0.011

Ultimate settlement without correction for buoyancy : 1.167

**** Time since load was applied: 2.00 ****

Elevation	Effective Stress	Pore Pressure
-27.36	3050.00	0.00
-77.36	9150.00	0.00
-127.36	15250.00	0.00
-177.36	21428.00	0.00
-227.35	28150.34	7.50
-277.26	33563.75	13.28
-326.99	38993.86	5.78
-376.60	42925.66	0.00
-426.24	45966.53	17.88
-475.96	48921.96	42.45
-525.74	51919.83	24.57
-575.58	54924.41	0.00

-625.47	57901.39	3.01
-675.40	60878.30	6.10
-725.35	63861.32	3.09
-775.30	66844.41	0.00
-825.24	69821.36	3.03
-875.20	72798.27	6.12
-925.15	75781.30	3.09
-975.10	78764.41	0.00
-1025.06	81744.40	0.00
-1075.02	84724.40	0.00

**** Time since load was applied: 4.00 ****

Elevation	Effective Stress	Pore Pressure
-27.37	3050.00	0.00
-77.37	9150.00	0.00
-127.37	15250.00	0.00
-177.37	21428.00	0.00
-227.36	28157.65	0.19
-277.27	33576.70	0.33
-327.00	38999.49	0.15
-376.61	42925.66	0.00
-426.25	45984.09	0.32
-475.96	48963.64	0.77
-525.74	51943.96	0.45
-575.58	54924.41	0.00
-625.47	57904.39	0.01
-675.40	60884.38	0.01
-725.35	63864.40	0.01
-775.30	66844.41	0.00
-825.24	69824.38	0.01
-875.20	72804.38	0.01
-925.15	75784.38	0.01
-975.10	78764.41	0.00
-1025.06	81744.40	0.00
-1075.02	84724.40	0.00

For this load case		Accumulated		Surface
Time	Settlement	Time	Settlement	elevation
2.00	1.165	14.00	2.356	-2.36
4.00	1.176	16.00	2.367	-2.37

**** L O A D C A S E : 5 ****
**** C h a n g e i n G r o u n d w a t e r E l e v a t i o n ****

Time intervals: 2.00 4.00

Old water elevation ..... -331.00
New water elevation ..... -346.00

Layer	Change in stress
1	0.00
2	0.00
3	0.00
4	0.00
5	0.00
6	0.00
7	0.00
8	936.00
9	936.00
10	936.00
11	936.00
12	936.00
13	936.00
14	936.00
15	936.00
16	936.00
17	936.00
18	936.00
19	936.00
20	936.00
21	936.00
22	936.00

Layer	Thick.	Void Ratio	Initial Pressure	Precons. Pressure	Final Pressure	Ult. Settl.
1	50.00	0.37	3050.00	3272.50	3050.00	0.000
2	50.00	0.37	9150.00	9817.50	9150.00	0.000
3	50.00	0.37	15250.00	16362.50	15250.00	0.000
4	50.00	0.37	21428.00	22907.50	21428.00	0.000
5	49.98	0.37	28157.65	29152.62	28157.84	0.000
6	49.84	0.36	33576.70	33576.70	33577.03	0.000
7	49.62	0.36	38999.49	38999.49	38999.64	0.000

8	49.60	0.36	42925.66	42925.66	43861.66	0.099
9	49.68	0.36	45984.09	45984.09	46920.41	0.093
10	49.75	0.36	48963.64	48963.64	49900.41	0.087
11	49.81	0.36	51943.96	51943.96	52880.40	0.082
12	49.86	0.37	54924.41	54924.41	55860.41	0.078
13	49.92	0.37	57904.39	57904.39	58840.40	0.048
14	49.94	0.37	60884.38	61068.42	61820.39	0.038
15	49.95	0.37	63864.40	64614.62	64800.41	0.014
16	49.95	0.37	66844.41	68160.82	67780.41	0.007
17	49.95	0.37	69824.38	71707.02	70760.39	0.006
18	49.95	0.37	72804.38	75253.22	73740.39	0.006
19	49.95	0.37	75784.38	78799.42	76720.39	0.006
20	49.96	0.37	78764.41	82345.62	79700.41	0.006
21	49.96	0.37	81744.40	85891.82	82680.40	0.005
22	49.96	0.37	84724.40	89438.02	85660.40	0.005

Ultimate settlement without correction for buoyancy : 0.581

**** Time since load was applied: 2.00 ****

Elevation	Effective Stress	Pore Pressure
-27.95	3050.00	0.00
-77.95	9150.00	0.00
-127.95	15250.00	0.00
-177.95	21428.05	0.00
-227.94	28157.83	0.00
-277.85	33576.95	0.01
-327.57	39233.68	0.00
-377.13	43627.81	0.00
-426.68	46919.09	1.35
-476.31	49897.46	2.75
-526.00	52878.97	1.40
-575.76	55860.53	0.00
-625.59	58840.35	0.05
-675.48	61820.24	0.15
-725.40	64800.30	0.10
-775.33	67780.41	0.00
-825.28	70758.93	1.46
-875.22	73737.43	2.96
-925.17	76718.90	1.49
-975.12	79700.41	0.00
-1025.07	82680.39	0.00
-1075.02	85660.39	0.00

**** Time since load was applied: 4.00 ****

Elevation	Effective Stress	Pore Pressure
-27.95	3050.00	0.00
-77.95	9150.00	0.00
-127.95	15250.00	0.00
-177.95	21428.05	0.00
-227.94	28157.83	0.00
-277.85	33576.95	0.00
-327.57	39233.68	0.00
-377.13	43627.81	0.00
-426.69	46920.43	0.00
-476.31	49900.21	0.00
-526.00	52880.37	0.00
-575.76	55860.53	0.00
-625.59	58840.40	0.00
-675.48	61820.39	0.00
-725.40	64800.41	0.00
-775.33	67780.41	0.00
-825.28	70760.40	0.00
-875.22	73740.38	0.01
-925.17	76720.40	0.00
-975.12	79700.41	0.00
-1025.07	82680.39	0.00
-1075.02	85660.39	0.00

For this load case		Accumulated		Surface
Time	Settlement	Time	Settlement	elevation
2.00	0.583	18.00	2.950	-2.95
4.00	0.584	20.00	2.951	-2.95

**** L O A D C A S E : 6 ****
**** C h a n g e i n G r o u n d w a t e r E l e v a t i o n ****

Time intervals: 2.00 4.00

Old water elevation ..... -346.00
New water elevation ..... -366.00

Layer	Change in stress
1	0.00
2	0.00
3	0.00
4	0.00
5	0.00
6	0.00
7	0.00
8	1248.00
9	1248.00
10	1248.00
11	1248.00
12	1248.00
13	1248.00
14	1248.00
15	1248.00
16	1248.00
17	1248.00
18	1248.00
19	1248.00
20	1248.00
21	1248.00
22	1248.00

Layer	Thick.	Void Ratio	Initial Pressure	Precons. Pressure	Final Pressure	Ult. Settl.
1	50.00	0.37	3050.00	3272.50	3050.00	0.000
2	50.00	0.37	9150.00	9817.50	9150.00	0.000
3	50.00	0.37	15250.00	16362.50	15250.00	0.000
4	50.00	0.37	21428.05	22907.50	21428.05	0.000
5	49.98	0.37	28157.83	29152.62	28157.83	0.000
6	49.84	0.36	33576.95	33576.95	33576.95	0.000
7	49.59	0.36	39233.68	39233.68	39233.68	0.000
8	49.53	0.36	43627.81	43627.81	44875.81	0.130
9	49.59	0.36	46920.43	46920.43	48168.44	0.121
10	49.66	0.36	49900.21	49900.21	51148.22	0.114
11	49.73	0.36	52880.37	52880.37	54128.37	0.107
12	49.79	0.36	55860.53	55860.53	57108.53	0.102
13	49.87	0.37	58840.40	58840.40	60088.40	0.063
14	49.90	0.37	61820.39	61820.39	63068.39	0.060
15	49.93	0.37	64800.41	64800.41	66048.41	0.057
16	49.94	0.37	67780.41	68160.82	69028.41	0.041
17	49.94	0.37	70760.40	71707.02	72008.40	0.019
18	49.95	0.37	73740.38	75253.22	74988.38	0.008
19	49.95	0.37	76720.40	78799.42	77968.40	0.008
20	49.95	0.37	79700.41	82345.62	80948.41	0.007
21	49.95	0.37	82680.39	85891.82	83928.39	0.007
22	49.95	0.37	85660.39	89438.02	86908.39	0.007

Ultimate settlement without correction for buoyancy : 0.851

**** Time since load was applied: 2.00 ****

Elevation	Effective Stress	Pore Pressure
-28.80	3050.00	0.00
-78.80	9150.00	0.00
-128.80	15250.00	0.00
-178.80	21428.05	0.00
-228.79	28157.83	0.00
-278.70	33576.95	0.00
-328.40	39545.88	0.00
-377.90	44564.01	0.00
-427.34	48166.69	1.76
-476.85	51144.64	3.57
-526.44	54126.55	1.82
-576.09	57108.53	0.00
-625.84	60086.50	1.90
-675.66	63064.54	3.85
-725.52	66046.46	1.95
-775.41	69028.41	0.00
-825.32	72006.45	1.95
-875.25	74984.45	3.94
-925.19	77966.41	1.99
-975.14	80948.41	0.00
-1025.08	83928.40	0.00
-1075.03	86908.40	0.00

**** Time since load was applied: 4.00 ****

Elevation	Effective Stress	Pore Pressure
-28.81	3050.00	0.00
-78.81	9150.00	0.00
-128.81	15250.00	0.00
-178.81	21428.05	0.00

-228.80	28157.83	0.00
-278.71	33576.95	0.00
-328.40	39545.88	0.00
-377.90	44564.01	0.00
-427.35	48168.44	0.00
-476.85	51148.21	0.01
-526.44	54128.37	0.00
-576.09	57108.53	0.00
-625.84	60088.40	0.00
-675.66	63068.38	0.01
-725.52	66048.41	0.00
-775.41	69028.41	0.00
-825.32	72008.38	0.00
-875.25	74988.38	0.01
-925.19	77968.39	0.00
-975.14	80948.41	0.00
-1025.08	83928.40	0.00
-1075.03	86908.40	0.00

For this load case		Accumulated		Surface
Time	Settlement	Time	Settlement	elevation
2.00	0.854	22.00	3.805	-3.80
4.00	0.855	24.00	3.806	-3.81

**** L O A D C A S E : 7 ****
**** C h a n g e i n G r o u n d w a t e r E l e v a t i o n ****

Time intervals: 2.00 4.00

Old water elevation ..... -366.00
New water elevation ..... -466.00

Layer	Change in stress
1	0.00
2	0.00
3	0.00
4	0.00
5	0.00
6	0.00
7	0.00
8	742.41
9	3827.99
10	6240.00
11	6240.00
12	6240.00
13	6240.01
14	6240.01
15	6240.01
16	6240.01
17	6240.01
18	6240.01
19	6240.01
20	6240.01
21	6240.01
22	6240.01

Layer	Thick.	Void Ratio	Initial Pressure	Precons. Pressure	Final Pressure	Ult. Settl.
1	50.00	0.37	3050.00	3272.50	3050.00	0.000
2	50.00	0.37	9150.00	9817.50	9150.00	0.000
3	50.00	0.37	15250.00	16362.50	15250.00	0.000
4	50.00	0.37	21428.05	22907.50	21428.05	0.000
5	49.98	0.37	28157.83	29152.62	28157.83	0.000
6	49.84	0.36	33576.95	33576.95	33576.95	0.000
7	49.56	0.36	39545.88	39545.88	39545.88	0.000
8	49.43	0.35	44564.01	44564.01	45306.42	0.076
9	49.46	0.35	48168.44	48168.44	51996.43	0.352
10	49.55	0.36	51148.21	51148.21	57388.22	0.530
11	49.62	0.36	54128.37	54128.37	60368.38	0.502
12	49.68	0.36	57108.53	57108.53	63348.53	0.477
13	49.81	0.36	60088.40	60088.40	66328.41	0.298
14	49.84	0.36	63068.38	63068.38	69308.39	0.284
15	49.87	0.37	66048.41	66048.41	72288.41	0.272
16	49.90	0.37	69028.41	69028.41	75268.42	0.261
17	49.92	0.37	72008.38	72008.38	78248.39	0.250
18	49.94	0.37	74988.38	75253.22	81228.39	0.232
19	49.94	0.37	77968.39	78799.42	84208.40	0.205
20	49.94	0.37	80948.41	82345.62	87188.41	0.180
21	49.95	0.37	83928.40	85891.82	90168.41	0.157
22	49.95	0.37	86908.40	89438.02	93148.41	0.136

Ultimate settlement without correction for buoyancy : 4.213

**** Time since load was applied: 2.00 ****

Elevation	Effective Stress	Pore Pressure
-33.03	3050.00	0.00
-83.03	9150.00	0.00
-133.03	15250.00	0.00
-183.03	21428.05	0.00
-233.02	28157.83	0.00
-282.93	33576.95	0.00
-332.62	39731.71	0.00
-382.03	45892.20	0.00
-431.25	51820.08	7.20
-480.34	56770.08	14.63
-529.44	60360.95	7.43
-578.60	63348.53	0.00
-627.96	66319.45	8.95
-677.50	69290.25	18.14
-727.08	72279.23	9.18
-776.70	75268.42	0.00
-826.36	78248.05	0.32
-876.05	81227.43	0.96
-925.77	84207.76	0.64
-975.52	87188.41	0.00
-1025.30	90168.39	0.01
-1075.09	93148.39	0.01

**** Time since load was applied: 4.00 ****

Elevation	Effective Stress	Pore Pressure
-33.04	3050.00	0.00
-83.04	9150.00	0.00
-133.04	15250.00	0.00
-183.03	21428.05	0.00
-233.03	28157.83	0.00
-282.94	33576.95	0.00
-332.62	39731.71	0.00
-382.04	45892.20	0.00
-431.25	51827.27	0.01
-480.35	56784.69	0.02
-529.44	60368.37	0.01
-578.60	63348.53	0.00
-627.96	66328.40	0.01
-677.50	69308.35	0.03
-727.08	72288.41	0.01
-776.70	75268.42	0.00
-826.36	78248.38	0.00
-876.05	81228.39	0.00
-925.77	84208.39	0.00
-975.52	87188.41	0.00
-1025.29	90168.40	0.00
-1075.09	93148.40	0.00

For this load case		Accumulated		Surface
Time	Settlement	Time	Settlement	elevation
2.00	4.226	26.00	8.031	-8.03
4.00	4.230	28.00	8.036	-8.04

**** L O A D C A S E : 8 ****
**** C h a n g e i n G r o u n d w a t e r E l e v a t i o n ****

Time intervals: 2.00 4.00

Old water elevation ..... -466.00
New water elevation ..... -500.00

Layer	Change in stress
1	0.00
2	0.00
3	0.00
4	0.00
5	0.00
6	0.00
7	0.00
8	0.00
9	0.00
10	895.29
11	2121.60
12	2121.60
13	2121.59
14	2121.59
15	2121.59
16	2121.59
17	2121.59
18	2121.59

19	2121.59
20	2121.59
21	2121.59
22	2121.59

Layer	Thick.	Void Ratio	Initial Pressure	Precons. Pressure	Final Pressure	Ult. Settl.
1	50.00	0.37	3050.00	3272.50	3050.00	0.000
2	50.00	0.37	9150.00	9817.50	9150.00	0.000
3	50.00	0.37	15250.00	16362.50	15250.00	0.000
4	50.00	0.37	21428.05	22907.50	21428.05	0.000
5	49.98	0.37	28157.83	29152.62	28157.83	0.000
6	49.84	0.36	33576.95	33576.95	33576.95	0.000
7	49.53	0.36	39731.71	39731.71	39731.71	0.000
8	49.30	0.35	45892.20	45892.20	45892.20	0.000
9	49.13	0.35	51827.27	51827.27	51827.28	0.000
10	49.07	0.34	56784.69	56784.69	57680.00	0.072
11	49.12	0.34	60368.37	60368.37	62489.97	0.159
12	49.21	0.35	63348.53	63348.53	65470.13	0.152
13	49.51	0.36	66328.40	66328.40	68450.00	0.095
14	49.56	0.36	69308.35	69308.35	71429.98	0.091
15	49.60	0.36	72288.41	72288.41	74410.02	0.087
16	49.64	0.36	75268.42	75268.42	77390.02	0.084
17	49.67	0.36	78248.38	78248.38	80369.97	0.081
18	49.71	0.36	81228.39	81228.39	83349.98	0.078
19	49.74	0.36	84208.39	84208.39	86329.98	0.075
20	49.76	0.36	87188.41	87188.41	89310.01	0.072
21	49.79	0.36	90168.40	90168.40	92289.99	0.070
22	49.81	0.36	93148.40	93148.40	95269.99	0.068

Ultimate settlement without correction for buoyancy : 1.183

**** Time since load was applied: 2.00 ****

Elevation	Effective Stress	Pore Pressure
-34.22	3050.00	0.00
-84.22	9150.00	0.00
-134.22	15250.00	0.00
-184.22	21428.05	0.00
-234.21	28157.83	0.00
-284.12	33576.95	0.00
-333.81	39731.71	0.00
-383.22	45892.20	0.00
-432.43	52050.10	1.15
-481.47	57760.39	2.34
-530.46	62182.05	1.19
-579.48	65470.13	0.00
-628.72	68447.05	2.95
-678.16	71423.98	5.98
-727.65	74406.99	3.02
-777.19	77390.02	0.00
-826.76	80366.88	3.08
-876.37	83343.76	6.23
-926.02	86326.84	3.14
-975.69	89310.01	0.00
-1025.40	92289.99	0.00
-1075.13	95269.99	0.00

**** Time since load was applied: 4.00 ****

Elevation	Effective Stress	Pore Pressure
-34.22	3050.00	0.00
-84.22	9150.00	0.00
-134.22	15250.00	0.00
-184.22	21428.05	0.00
-234.21	28157.83	0.00
-284.12	33576.95	0.00
-333.81	39731.71	0.00
-383.22	45892.20	0.00
-432.43	52051.25	0.00
-481.48	57762.72	0.00
-530.46	62183.23	0.00
-579.48	65470.13	0.00
-628.72	68450.00	0.00
-678.16	71429.95	0.01
-727.65	74410.02	0.00
-777.19	77390.02	0.00
-826.76	80369.97	0.00
-876.37	83349.98	0.01
-926.02	86329.98	0.00
-975.69	89310.01	0.00
-1025.40	92289.99	0.00
-1075.13	95269.99	0.00

For this load case | Accumulated | Surface

Time	Settlement	Time	Settlement	elevation
2.00	1.185	30.00	9.221	-9.22
4.00	1.187	32.00	9.222	-9.22

**** L O A D C A S E : 9 ****
**** C h a n g e i n G r o u n d w a t e r E l e v a t i o n ****

Time intervals: 2.00

Old water elevation ..... -500.00
New water elevation ..... -595.00

Layer	Change in stress
1	0.00
2	0.00
3	0.00
4	0.00
5	0.00
6	0.00
7	0.00
8	0.00
9	0.00
10	0.00
11	1900.73
12	4959.53
13	5927.99
14	5927.99
15	5927.99
16	5927.99
17	5927.99
18	5927.99
19	5927.99
20	5927.99
21	5927.99
22	5927.99

Layer	Thick.	Void Ratio	Initial Pressure	Precons. Pressure	Final Pressure	Ult. Settl.
1	50.00	0.37	3050.00	3272.50	3050.00	0.000
2	50.00	0.37	9150.00	9817.50	9150.00	0.000
3	50.00	0.37	15250.00	16362.50	15250.00	0.000
4	50.00	0.37	21428.05	22907.50	21428.05	0.000
5	49.98	0.37	28157.83	29152.62	28157.83	0.000
6	49.84	0.36	33576.95	33576.95	33576.95	0.000
7	49.53	0.36	39731.71	39731.71	39731.71	0.000
8	49.30	0.35	45892.20	45892.20	45892.20	0.000
9	49.11	0.34	52051.25	52051.25	52051.25	0.000
10	48.99	0.34	57762.72	57762.72	57762.72	0.000
11	48.98	0.34	62183.23	62183.23	64083.97	0.138
12	49.06	0.34	65470.13	65470.13	70429.66	0.336
13	49.42	0.35	68450.00	68450.00	74378.00	0.250
14	49.47	0.35	71429.95	71429.95	77357.95	0.240
15	49.51	0.36	74410.02	74410.02	80338.02	0.231
16	49.56	0.36	77390.02	77390.02	83318.01	0.222
17	49.59	0.36	80369.97	80369.97	86297.97	0.214
18	49.63	0.36	83349.98	83349.98	89277.98	0.207
19	49.66	0.36	86329.98	86329.98	92257.98	0.200
20	49.69	0.36	89310.01	89310.01	95238.00	0.194
21	49.72	0.36	92289.99	92289.99	98217.98	0.188
22	49.74	0.36	95269.99	95269.99	101197.98	0.182

Ultimate settlement without correction for buoyancy : 2.603

**** Time since load was applied: 2.00 ****

Elevation	Effective Stress	Pore Pressure
-36.84	3050.00	0.00
-86.84	9150.00	0.00
-136.84	15250.00	0.00
-186.84	21428.05	0.00
-236.83	28157.83	0.00
-286.74	33576.95	0.00
-336.42	39731.71	0.00
-385.84	45892.20	0.00
-435.04	52050.71	0.54
-484.07	58236.84	1.10
-532.96	64372.38	0.56
-581.75	69905.62	0.00
-630.71	74127.16	7.83
-679.92	77342.09	15.85
-729.17	80330.01	8.01
-778.48	83318.02	0.00
-827.84	86289.73	8.23

-877.24	89261.36	16.63
-926.68	92249.59	8.39
-976.16	95238.00	0.00
-1025.67	98217.97	0.01
-1075.22	101197.97	0.01

For this load case Time	Settlement	Accumulated Time	Settlement	Surface elevation
2.00	2.615	34.00	11.837	-11.84

**** Complete Time Settlement Record ****

Time	Settlement	
2.00	0.000	- 220
4.00	0.000	
6.00	0.402	- 260
8.00	0.402	
10.00	1.189	- 300
12.00	1.191	
14.00	2.356	- 331
16.00	2.367	
18.00	2.950	- 346
20.00	2.951	
22.00	3.805	- 366
24.00	3.806	
26.00	8.031	- 466
28.00	8.036	
30.00	9.221	- 500
32.00	9.222	
34.00	11.837	- 595

same as other runs"

← did run to get this number (program crashed if too many points are entered!!)

(little difference ignore!!)

UPPER BOUND

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==========================================================
CONSOL - 1d Consolidation Analysis Program
         Version 3.0
         Virginia Tech, Department of Civil Engineering
==========================================================
```

Date: 08/10/2004
Input file : C:\Program Files\Consol\Cc & Cr OCR=1.cns
Output file: C:\Program Files\Consol\Cc & Cr OCR=1.out
Plot file : C:\Program Files\Consol\Cc & Cr OCR=1.dat

Title : White Tanks FRS No. 3 Remediation

**** C O N T R O L D A T A ****

Number of compressible units	11
Number of soil layers	22
Number of different soils	2
Elevation of the ground surface	0.00
Elevation of the top of the compressible soil mass	0.00
Ground water elevation	-220.00
Unit weight of water	62.40
Moist unit wt. of soil btwn grn. surf. & comp. soil mass ...	110.00
Satur. unit wt. of soil btwn grn. surf. & comp. soil mass ..	122.00

**** U N I T B O U N D A R Y D A T A ****

Unit Number	Top Boundary	Bottom Boundary	Drainage Condition
1	1	4	2
2	4	5	2
3	5	8	2
4	8	9	2
5	9	12	2
6	12	13	2
7	13	16	2
8	16	17	2
9	17	20	2
10	20	21	2
11	21	23	2

**** S O I L P R O P E R T Y D A T A ****

Soil Type	Unit Weight	Void Ratio	Cc	Ccs	Cv	Cvs
1	122.00	0.37	0.29	0.03	7000.00	7000.00
2	122.00	0.37	0.19	0.03	7000.00	7000.00

**** S U B L A Y E R D A T A ****

Layer	Center Elev	Bottom Elev	Thick	Overbn Pressure	Precons Pressure	Soil Type	
1	-25.00	-50.00	50.00	3050.00	3272.50	1	220
2	-75.00	-100.00	50.00	9150.00	9817.50	1	260
3	-125.00	-150.00	50.00	15250.00	16362.50	1	300
4	-175.00	-200.00	50.00	21350.00	22907.50	1	331
5	-225.00	-250.00	50.00	27138.00	29152.62	1	376
6	-275.00	-300.00	50.00	30118.00	32698.82	1	
7	-325.00	-350.00	50.00	33098.00	36245.02	1	
8	-375.00	-400.00	50.00	36078.00	39791.22	1	
9	-425.00	-450.00	50.00	39058.00	43337.42	1	
10	-475.00	-500.00	50.00	42038.00	46883.62	1	
11	-525.00	-550.00	50.00	45018.00	50429.82	1	
12	-575.00	-600.00	50.00	47998.00	53976.02	1	
13	-625.00	-650.00	50.00	50978.00	57522.22	2	366
14	-675.00	-700.00	50.00	53958.00	61068.42	2	400
15	-725.00	-750.00	50.00	56938.00	64614.62	2	566
16	-775.00	-800.00	50.00	59918.00	68160.82	2	595
17	-825.00	-850.00	50.00	62898.00	71707.02	2	
18	-875.00	-900.00	50.00	65878.00	75253.22	2	
19	-925.00	-950.00	50.00	68858.00	78799.42	2	
20	-975.00	-1000.00	50.00	71838.00	82345.62	2	
21	-1025.00	-1050.00	50.00	74818.00	85891.82	2	
22	-1075.00	-1100.00	50.00	77798.00	89438.02	2	

**** Number of Loadcases to be Analysed: 9

**** L O A D C A S E : 1 ****
**** C h a n g e i n G r o u n d w a t e r E l e v a t i o n ****

Time intervals: 2.00 4.00

Old water elevation ..... -220.00
New water elevation ..... -220.00

Layer	Change in stress
1	0.00
2	0.00
3	0.00
4	0.00
5	0.00
6	0.00
7	0.00
8	0.00
9	0.00
10	0.00
11	0.00
12	0.00
13	0.00
14	0.00
15	0.00
16	0.00
17	0.00
18	0.00
19	0.00
20	0.00
21	0.00
22	0.00

Layer	Thick.	Void Ratio	Initial Pressure	Precons. Pressure	Final Pressure	Ult. Settl.
1	50.00	0.37	3050.00	3272.50	3050.00	0.000
2	50.00	0.37	9150.00	9817.50	9150.00	0.000
3	50.00	0.37	15250.00	16362.50	15250.00	0.000
4	50.00	0.37	21350.00	22907.50	21350.00	0.000
5	50.00	0.37	27138.00	29152.62	27138.00	0.000
6	50.00	0.37	30118.00	32698.82	30118.00	0.000
7	50.00	0.37	33098.00	36245.02	33098.00	0.000
8	50.00	0.37	36078.00	39791.22	36078.00	0.000
9	50.00	0.37	39058.00	43337.42	39058.00	0.000
10	50.00	0.37	42038.00	46883.62	42038.00	0.000
11	50.00	0.37	45018.00	50429.82	45018.00	0.000
12	50.00	0.37	47998.00	53976.02	47998.00	0.000
13	50.00	0.37	50978.00	57522.22	50978.00	0.000
14	50.00	0.37	53958.00	61068.42	53958.00	0.000
15	50.00	0.37	56938.00	64614.62	56938.00	0.000
16	50.00	0.37	59918.00	68160.82	59918.00	0.000
17	50.00	0.37	62898.00	71707.02	62898.00	0.000
18	50.00	0.37	65878.00	75253.22	65878.00	0.000
19	50.00	0.37	68858.00	78799.42	68858.00	0.000
20	50.00	0.37	71838.00	82345.62	71838.00	0.000
21	50.00	0.37	74818.00	85891.82	74818.00	0.000
22	50.00	0.37	77798.00	89438.02	77798.00	0.000

Ultimate settlement without correction for buoyancy : 0.000

**** Time since load was applied: 2.00 ****

Elevation	Effective Stress	Pore Pressure
-25.00	3050.00	0.00
-75.00	9150.00	0.00
-125.00	15250.00	0.00
-175.00	21350.00	0.00
-225.00	27138.00	0.00
-275.00	30118.00	0.00
-325.00	33098.00	0.00
-375.00	36078.00	0.00
-425.00	39058.00	0.00
-475.00	42038.00	0.00
-525.00	45018.00	0.00
-575.00	47998.00	0.00
-625.00	50978.00	0.00
-675.00	53958.00	0.00
-725.00	56938.00	0.00
-775.00	59918.00	0.00
-825.00	62898.00	0.00
-875.00	65878.00	0.00
-925.00	68858.00	0.00
-975.00	71838.00	0.00
-1025.00	74818.00	0.00
-1075.00	77798.00	0.00

**** Time since load was applied: 4.00 ****

Elevation	Effective Stress	Pore Pressure

-25.00	3050.00	0.00
-75.00	9150.00	0.00
-125.00	15250.00	0.00
-175.00	21350.00	0.00
-225.00	27138.00	0.00
-275.00	30118.00	0.00
-325.00	33098.00	0.00
-375.00	36078.00	0.00
-425.00	39058.00	0.00
-475.00	42038.00	0.00
-525.00	45018.00	0.00
-575.00	47998.00	0.00
-625.00	50978.00	0.00
-675.00	53958.00	0.00
-725.00	56938.00	0.00
-775.00	59918.00	0.00
-825.00	62898.00	0.00
-875.00	65878.00	0.00
-925.00	68858.00	0.00
-975.00	71838.00	0.00
-1025.00	74818.00	0.00
-1075.00	77798.00	0.00

For this load case		Accumulated		Surface
Time	Settlement	Time	Settlement	elevation
2.00	0.000	2.00	0.000	0.00
4.00	0.000	4.00	0.000	0.00

**** L O A D C A S E : 2 ****
**** C h a n g e i n G r o u n d w a t e r E l e v a t i o n ****

Time intervals: 2.00 4.00

Old water elevation ..... -220.00
New water elevation ..... -260.00

Layer	Change in stress
1	0.00
2	0.00
3	0.00
4	0.00
5	312.00
6	2496.00
7	2496.00
8	2496.00
9	2496.00
10	2496.00
11	2496.00
12	2496.00
13	2496.00
14	2496.00
15	2496.00
16	2496.00
17	2496.00
18	2496.00
19	2496.00
20	2496.00
21	2496.00
22	2496.00

Layer	Thick.	Void Ratio	Initial Pressure	Precons. Pressure	Final Pressure	Ult. Settl.
1	50.00	0.37	3050.00	3272.50	3050.00	0.000
2	50.00	0.37	9150.00	9817.50	9150.00	0.000
3	50.00	0.37	15250.00	16362.50	15250.00	0.000
4	50.00	0.37	21350.00	22907.50	21350.00	0.000
5	50.00	0.37	27138.00	29152.62	27450.00	0.005
6	50.00	0.37	30118.00	32698.82	32614.00	0.038
7	50.00	0.37	33098.00	36245.02	35594.00	0.035
8	50.00	0.37	36078.00	39791.22	38574.00	0.032
9	50.00	0.37	39058.00	43337.42	41554.00	0.029
10	50.00	0.37	42038.00	46883.62	44534.00	0.027
11	50.00	0.37	45018.00	50429.82	47514.00	0.026
12	50.00	0.37	47998.00	53976.02	50494.00	0.024
13	50.00	0.37	50978.00	57522.22	53474.00	0.023
14	50.00	0.37	53958.00	61068.42	56454.00	0.022
15	50.00	0.37	56938.00	64614.62	59434.00	0.020
16	50.00	0.37	59918.00	68160.82	62414.00	0.019
17	50.00	0.37	62898.00	71707.02	65394.00	0.019
18	50.00	0.37	65878.00	75253.22	68374.00	0.018
19	50.00	0.37	68858.00	78799.42	71354.00	0.017
20	50.00	0.37	71838.00	82345.62	74334.00	0.016
21	50.00	0.37	74818.00	85891.82	77314.00	0.016
22	50.00	0.37	77798.00	89438.02	80294.00	0.015

Ultimate settlement without correction for buoyancy : 0.401

**** Time since load was applied: 2.00 ****

Elevation	Effective Stress	Pore Pressure
-25.40	3050.00	0.00
-75.40	9150.00	0.00
-125.40	15250.00	0.00
-175.40	21428.00	0.00
-225.39	27915.04	2.95
-275.37	32061.94	6.06
-325.34	35590.89	3.10
-375.31	38574.00	0.00
-425.28	41550.13	3.87
-475.25	44526.11	7.89
-525.22	47509.98	4.01
-575.20	50494.00	0.00
-625.17	53470.09	3.91
-675.15	56446.06	7.93
-725.13	59429.98	4.02
-775.11	62414.00	0.00
-825.09	65390.07	3.93
-875.07	68366.04	7.96
-925.06	71349.97	4.02
-975.04	74334.00	0.00
-1025.02	77313.99	0.00
-1075.01	80293.99	0.00

**** Time since load was applied: 4.00 ****

Elevation	Effective Stress	Pore Pressure
-25.40	3050.00	0.00
-75.40	9150.00	0.00
-125.40	15250.00	0.00
-175.40	21428.00	0.00
-225.39	27917.99	0.01
-275.37	32067.99	0.01
-325.34	35594.00	0.01
-375.31	38574.00	0.00
-425.28	41553.99	0.01
-475.25	44533.98	0.01
-525.22	47513.99	0.01
-575.20	50494.00	0.00
-625.17	53473.99	0.01
-675.15	56453.97	0.01
-725.13	59433.99	0.01
-775.11	62414.00	0.00
-825.09	65394.00	0.01
-875.07	68373.98	0.01
-925.06	71353.98	0.01
-975.04	74334.00	0.00
-1025.02	77314.00	0.00
-1075.01	80294.00	0.00

For this load case		Accumulated		Surface
Time	Settlement	Time	Settlement	elevation
2.00	0.402	6.00	0.402	-0.40
4.00	0.402	8.00	0.402	-0.40

**** L O A D C A S E : 3 ****
**** C h a n g e i n G r o u n d w a t e r E l e v a t i o n ****

Time intervals: 2.00 4.00

Old water elevation ..... -260.00
New water elevation ..... -300.00

Layer	Change in stress
1	0.00
2	0.00
3	0.00
4	0.00
5	0.00
6	959.23
7	2496.00
8	2496.00
9	2496.00
10	2496.00
11	2496.00
12	2496.00
13	2496.00

14	2496.00
15	2496.00
16	2496.00
17	2496.00
18	2496.00
19	2496.00
20	2496.00
21	2496.00
22	2496.00

Layer	Thick.	Void Ratio	Initial Pressure	Precons. Pressure	Final Pressure	Ult. Settl.
1	50.00	0.37	3050.00	3272.50	3050.00	0.000
2	50.00	0.37	9150.00	9817.50	9150.00	0.000
3	50.00	0.37	15250.00	16362.50	15250.00	0.000
4	50.00	0.37	21428.00	22907.50	21428.00	0.000
5	49.99	0.37	27917.99	29152.62	27918.00	0.000
6	49.97	0.37	32067.99	32698.82	33027.23	0.055
7	49.97	0.37	35594.00	36245.02	38090.00	0.237
8	49.97	0.37	38574.00	39791.22	41070.00	0.160
9	49.97	0.37	41553.99	43337.42	44050.00	0.095
10	49.97	0.37	44533.98	46883.62	47030.00	0.039
11	49.97	0.37	47513.99	50429.82	50010.00	0.024
12	49.98	0.37	50494.00	53976.02	52990.00	0.023
13	49.98	0.37	53473.99	57522.22	55970.00	0.022
14	49.98	0.37	56453.97	61068.42	58949.99	0.021
15	49.98	0.37	59433.99	64614.62	61930.00	0.020
16	49.98	0.37	62414.00	68160.82	64910.00	0.019
17	49.98	0.37	65394.00	71707.02	67890.00	0.018
18	49.98	0.37	68373.98	75253.22	70870.00	0.017
19	49.98	0.37	71353.98	78799.42	73849.98	0.016
20	49.98	0.37	74334.00	82345.62	76830.00	0.016
21	49.98	0.37	77314.00	85891.82	79810.00	0.015
22	49.98	0.37	80294.00	89438.02	82790.00	0.015

Ultimate settlement without correction for buoyancy : 0.811

**** Time since load was applied: 2.00 ****

Elevation	Effective Stress	Pore Pressure
-26.19	3050.00	0.00
-76.19	9150.00	0.00
-126.19	15250.00	0.00
-176.19	21428.00	0.00
-226.18	28156.29	1.56
-276.12	33168.46	3.20
-325.95	37704.17	1.65
-375.74	41070.00	0.00
-425.59	44046.16	3.84
-475.49	47022.18	7.82
-525.43	50006.02	3.98
-575.38	52990.00	0.00
-625.34	55966.10	3.90
-675.30	58942.09	7.90
-725.25	61925.99	4.00
-775.22	64910.00	0.00
-825.18	67886.07	3.92
-875.14	70862.07	7.93
-925.11	73845.98	4.01
-975.08	76830.00	0.00
-1025.04	79809.99	0.00
-1075.01	82789.99	0.00

**** Time since load was applied: 4.00 ****

Elevation	Effective Stress	Pore Pressure
-26.19	3050.00	0.00
-76.19	9150.00	0.00
-126.19	15250.00	0.00
-176.19	21428.00	0.00
-226.18	28157.84	0.00
-276.12	33171.66	0.01
-325.95	37705.81	0.00
-375.75	41070.00	0.00
-425.59	44050.00	0.01
-475.49	47029.99	0.01
-525.43	50009.98	0.01
-575.38	52990.00	0.00
-625.34	55969.99	0.01
-675.30	58949.97	0.01
-725.25	61929.99	0.01
-775.22	64910.00	0.00
-825.18	67889.98	0.01
-875.14	70869.98	0.01
-925.11	73849.98	0.01
-975.08	76830.00	0.00

-1025.05	79810.00	0.00
-1075.01	82790.00	0.00

For this load case Time	Settlement	Accumulated Time	Settlement	Surface elevation
2.00	0.786	10.00	1.189	-1.19
4.00	0.788	12.00	1.191	-1.19

**** L O A D C A S E : 4 ****
**** C h a n g e i n G r o u n d w a t e r E l e v a t i o n ****

Time intervals: 2.00 4.00

Old water elevation ..... -300.00
New water elevation ..... -331.00

Layer	Change in stress
1	0.00
2	0.00
3	0.00
4	0.00
5	0.00
6	0.00
7	1619.52
8	1934.40
9	1934.40
10	1934.41
11	1934.41
12	1934.41
13	1934.41
14	1934.41
15	1934.41
16	1934.41
17	1934.41
18	1934.41
19	1934.41
20	1934.41
21	1934.41
22	1934.41

Layer	Thick.	Void Ratio	Initial Pressure	Precons. Pressure	Final Pressure	Ult. Settl.
1	50.00	0.37	3050.00	3272.50	3050.00	0.000
2	50.00	0.37	9150.00	9817.50	9150.00	0.000
3	50.00	0.37	15250.00	16362.50	15250.00	0.000
4	50.00	0.37	21428.00	22907.50	21428.00	0.000
5	49.98	0.37	28157.84	29152.62	28157.84	0.000
6	49.89	0.37	33171.66	33171.66	33171.66	0.000
7	49.78	0.36	37705.81	37705.81	39325.33	0.193
8	49.81	0.36	41070.00	41070.00	43004.41	0.212
9	49.88	0.37	44050.00	44050.00	45984.41	0.198
10	49.93	0.37	47029.99	47029.99	48964.41	0.185
11	49.95	0.37	50009.98	50429.82	51944.40	0.140
12	49.95	0.37	52990.00	53976.02	54924.41	0.089
13	49.96	0.37	55969.99	57522.22	57904.40	0.033
14	49.96	0.37	58949.97	61068.42	60884.39	0.015
15	49.96	0.37	61929.99	64614.62	63864.40	0.015
16	49.96	0.37	64910.00	68160.82	66844.41	0.014
17	49.96	0.37	67889.98	71707.02	69824.39	0.013
18	49.97	0.37	70869.98	75253.22	72804.41	0.013
19	49.97	0.37	73849.98	78799.42	75784.39	0.012
20	49.97	0.37	76830.00	82345.62	78764.41	0.012
21	49.97	0.37	79810.00	85891.82	81744.41	0.011
22	49.97	0.37	82790.00	89438.02	84724.41	0.011

Ultimate settlement without correction for buoyancy : 1.167

**** Time since load was applied: 2.00 ****

Elevation	Effective Stress	Pore Pressure
-27.36	3050.00	0.00
-77.36	9150.00	0.00
-127.36	15250.00	0.00
-177.36	21428.00	0.00
-227.35	28150.34	7.50
-277.26	33563.75	13.28
-326.99	38993.86	5.78
-376.60	42925.66	0.00
-426.24	45966.53	17.88
-475.96	48921.96	42.45
-525.74	51919.83	24.57
-575.58	54924.41	0.00

-625.47	57901.39	3.01
-675.40	60878.30	6.10
-725.35	63861.32	3.09
-775.30	66844.41	0.00
-825.24	69821.36	3.03
-875.20	72798.27	6.12
-925.15	75781.30	3.09
-975.10	78764.41	0.00
-1025.06	81744.40	0.00
-1075.02	84724.40	0.00

**** Time since load was applied: 4.00 ****

Elevation	Effective Stress	Pore Pressure
-27.37	3050.00	0.00
-77.37	9150.00	0.00
-127.37	15250.00	0.00
-177.37	21428.00	0.00
-227.36	28157.65	0.19
-277.27	33576.70	0.33
-327.00	38999.49	0.15
-376.61	42925.66	0.00
-426.25	45984.09	0.32
-475.96	48963.64	0.77
-525.74	51943.96	0.45
-575.58	54924.41	0.00
-625.47	57904.39	0.01
-675.40	60884.38	0.01
-725.35	63864.40	0.01
-775.30	66844.41	0.00
-825.24	69824.38	0.01
-875.20	72804.38	0.01
-925.15	75784.38	0.01
-975.10	78764.41	0.00
-1025.06	81744.40	0.00
-1075.02	84724.40	0.00

For this load case		Accumulated		Surface
Time	Settlement	Time	Settlement	elevation
2.00	1.165	14.00	2.356	-2.36
4.00	1.176	16.00	2.367	-2.37

**** L O A D C A S E : 5 ****
**** C h a n g e i n G r o u n d w a t e r E l e v a t i o n ****

Time intervals: 2.00 4.00

Old water elevation ..... -331.00
New water elevation ..... -346.00

Layer	Change in stress
1	0.00
2	0.00
3	0.00
4	0.00
5	0.00
6	0.00
7	0.00
8	936.00
9	936.00
10	936.00
11	936.00
12	936.00
13	936.00
14	936.00
15	936.00
16	936.00
17	936.00
18	936.00
19	936.00
20	936.00
21	936.00
22	936.00

Layer	Thick.	Void Ratio	Initial Pressure	Precons. Pressure	Final Pressure	Ult. Settl.
1	50.00	0.37	3050.00	3272.50	3050.00	0.000
2	50.00	0.37	9150.00	9817.50	9150.00	0.000
3	50.00	0.37	15250.00	16362.50	15250.00	0.000
4	50.00	0.37	21428.00	22907.50	21428.00	0.000
5	49.98	0.37	28157.65	29152.62	28157.84	0.000
6	49.84	0.36	33576.70	33576.70	33577.03	0.000
7	49.62	0.36	38999.49	38999.49	38999.64	0.000

8	49.60	0.36	42925.66	42925.66	43861.66	0.099
9	49.68	0.36	45984.09	45984.09	46920.41	0.093
10	49.75	0.36	48963.64	48963.64	49900.41	0.087
11	49.81	0.36	51943.96	51943.96	52880.40	0.082
12	49.86	0.37	54924.41	54924.41	55860.41	0.078
13	49.92	0.37	57904.39	57904.39	58840.40	0.048
14	49.94	0.37	60884.38	61068.42	61820.39	0.038
15	49.95	0.37	63864.40	64614.62	64800.41	0.014
16	49.95	0.37	66844.41	68160.82	67780.41	0.007
17	49.95	0.37	69824.38	71707.02	70760.39	0.006
18	49.95	0.37	72804.38	75253.22	73740.39	0.006
19	49.95	0.37	75784.38	78799.42	76720.39	0.006
20	49.96	0.37	78764.41	82345.62	79700.41	0.006
21	49.96	0.37	81744.40	85891.82	82680.40	0.005
22	49.96	0.37	84724.40	89438.02	85660.40	0.005

Ultimate settlement without correction for buoyancy : 0.581

**** Time since load was applied: 2.00 ****

Elevation	Effective Stress	Pore Pressure
-27.95	3050.00	0.00
-77.95	9150.00	0.00
-127.95	15250.00	0.00
-177.95	21428.05	0.00
-227.94	28157.83	0.00
-277.85	33576.95	0.01
-327.57	39233.68	0.00
-377.13	43627.81	0.00
-426.68	46919.09	1.35
-476.31	49897.46	2.75
-526.00	52878.97	1.40
-575.76	55860.53	0.00
-625.59	58840.35	0.05
-675.48	61820.24	0.15
-725.40	64800.30	0.10
-775.33	67780.41	0.00
-825.28	70758.93	1.46
-875.22	73737.43	2.96
-925.17	76718.90	1.49
-975.12	79700.41	0.00
-1025.07	82680.39	0.00
-1075.02	85660.39	0.00

**** Time since load was applied: 4.00 ****

Elevation	Effective Stress	Pore Pressure
-27.95	3050.00	0.00
-77.95	9150.00	0.00
-127.95	15250.00	0.00
-177.95	21428.05	0.00
-227.94	28157.83	0.00
-277.85	33576.95	0.00
-327.57	39233.68	0.00
-377.13	43627.81	0.00
-426.69	46920.43	0.00
-476.31	49900.21	0.00
-526.00	52880.37	0.00
-575.76	55860.53	0.00
-625.59	58840.40	0.00
-675.48	61820.39	0.00
-725.40	64800.41	0.00
-775.33	67780.41	0.00
-825.28	70760.40	0.00
-875.22	73740.38	0.01
-925.17	76720.40	0.00
-975.12	79700.41	0.00
-1025.07	82680.39	0.00
-1075.02	85660.39	0.00

For this load case		Accumulated		Surface
Time	Settlement	Time	Settlement	elevation
2.00	0.583	18.00	2.950	-2.95
4.00	0.584	20.00	2.951	-2.95

**** L O A D C A S E : 6 ****
**** C h a n g e i n G r o u n d w a t e r E l e v a t i o n ****

Time intervals: 2.00 4.00

Old water elevation ..... -346.00
New water elevation ..... -366.00

Layer	Change in stress
1	0.00
2	0.00
3	0.00
4	0.00
5	0.00
6	0.00
7	0.00
8	1248.00
9	1248.00
10	1248.00
11	1248.00
12	1248.00
13	1248.00
14	1248.00
15	1248.00
16	1248.00
17	1248.00
18	1248.00
19	1248.00
20	1248.00
21	1248.00
22	1248.00

Layer	Thick.	Void Ratio	Initial Pressure	Precons. Pressure	Final Pressure	Ult. Settl.
1	50.00	0.37	3050.00	3272.50	3050.00	0.000
2	50.00	0.37	9150.00	9817.50	9150.00	0.000
3	50.00	0.37	15250.00	16362.50	15250.00	0.000
4	50.00	0.37	21428.05	22907.50	21428.05	0.000
5	49.98	0.37	28157.83	29152.62	28157.83	0.000
6	49.84	0.36	33576.95	33576.95	33576.95	0.000
7	49.59	0.36	39233.68	39233.68	39233.68	0.000
8	49.53	0.36	43627.81	43627.81	44875.81	0.130
9	49.59	0.36	46920.43	46920.43	48168.44	0.121
10	49.66	0.36	49900.21	49900.21	51148.22	0.114
11	49.73	0.36	52880.37	52880.37	54128.37	0.107
12	49.79	0.36	55860.53	55860.53	57108.53	0.102
13	49.87	0.37	58840.40	58840.40	60088.40	0.063
14	49.90	0.37	61820.39	61820.39	63068.39	0.060
15	49.93	0.37	64800.41	64800.41	66048.41	0.057
16	49.94	0.37	67780.41	68160.82	69028.41	0.041
17	49.94	0.37	70760.40	71707.02	72008.40	0.019
18	49.95	0.37	73740.38	75253.22	74988.38	0.008
19	49.95	0.37	76720.40	78799.42	77968.40	0.008
20	49.95	0.37	79700.41	82345.62	80948.41	0.007
21	49.95	0.37	82680.39	85891.82	83928.39	0.007
22	49.95	0.37	85660.39	89438.02	86908.39	0.007

Ultimate settlement without correction for buoyancy : 0.851

**** Time since load was applied: 2.00 ****

Elevation	Effective Stress	Pore Pressure
-28.80	3050.00	0.00
-78.80	9150.00	0.00
-128.80	15250.00	0.00
-178.80	21428.05	0.00
-228.79	28157.83	0.00
-278.70	33576.95	0.00
-328.40	39545.88	0.00
-377.90	44564.01	0.00
-427.34	48166.69	1.76
-476.85	51144.64	3.57
-526.44	54126.55	1.82
-576.09	57108.53	0.00
-625.84	60086.50	1.90
-675.66	63064.54	3.85
-725.52	66046.46	1.95
-775.41	69028.41	0.00
-825.32	72006.45	1.95
-875.25	74984.45	3.94
-925.19	77966.41	1.99
-975.14	80948.41	0.00
-1025.08	83928.40	0.00
-1075.03	86908.40	0.00

**** Time since load was applied: 4.00 ****

Elevation	Effective Stress	Pore Pressure
-28.81	3050.00	0.00
-78.81	9150.00	0.00
-128.81	15250.00	0.00
-178.81	21428.05	0.00

-228.80	28157.83	0.00
-278.71	33576.95	0.00
-328.40	39545.88	0.00
-377.90	44564.01	0.00
-427.35	48168.44	0.00
-476.85	51148.21	0.01
-526.44	54128.37	0.00
-576.09	57108.53	0.00
-625.84	60088.40	0.00
-675.66	63068.38	0.01
-725.52	66048.41	0.00
-775.41	69028.41	0.00
-825.32	72008.38	0.00
-875.25	74988.38	0.01
-925.19	77968.39	0.00
-975.14	80948.41	0.00
-1025.08	83928.40	0.00
-1075.03	86908.40	0.00

For this load case Time	Settlement	Accumulated Time	Settlement	Surface elevation
2.00	0.854	22.00	3.805	-3.80
4.00	0.855	24.00	3.806	-3.81

**** L O A D C A S E : 7 ****
**** C h a n g e i n G r o u n d w a t e r E l e v a t i o n ****

Time intervals: 2.00 4.00

Old water elevation ..... -366.00
New water elevation ..... -400.00

Layer	Change in stress
1	0.00
2	0.00
3	0.00
4	0.00
5	0.00
6	0.00
7	0.00
8	742.41
9	2121.60
10	2121.60
11	2121.60
12	2121.60
13	2121.60
14	2121.60
15	2121.60
16	2121.60
17	2121.60
18	2121.60
19	2121.60
20	2121.60
21	2121.60
22	2121.60

Layer	Thick.	Void Ratio	Initial Pressure	Precons. Pressure	Final Pressure	Ult. Settl.
1	50.00	0.37	3050.00	3272.50	3050.00	0.000
2	50.00	0.37	9150.00	9817.50	9150.00	0.000
3	50.00	0.37	15250.00	16362.50	15250.00	0.000
4	50.00	0.37	21428.05	22907.50	21428.05	0.000
5	49.98	0.37	28157.83	29152.62	28157.83	0.000
6	49.84	0.36	33576.95	33576.95	33576.95	0.000
7	49.56	0.36	39545.88	39545.88	39545.88	0.000
8	49.43	0.35	44564.01	44564.01	45306.42	0.076
9	49.46	0.35	48168.44	48168.44	50290.05	0.198
10	49.55	0.36	51148.21	51148.21	53269.82	0.187
11	49.62	0.36	54128.37	54128.37	56249.97	0.177
12	49.68	0.36	57108.53	57108.53	59230.13	0.168
13	49.81	0.36	60088.40	60088.40	62210.00	0.105
14	49.84	0.36	63068.38	63068.38	65189.99	0.100
15	49.87	0.37	66048.41	66048.41	68170.01	0.095
16	49.90	0.37	69028.41	69028.41	71150.02	0.091
17	49.92	0.37	72008.38	72008.38	74129.98	0.088
18	49.94	0.37	74988.38	75253.22	77109.98	0.075
19	49.94	0.37	77968.39	78799.42	80089.99	0.054
20	49.94	0.37	80948.41	82345.62	83070.01	0.035
21	49.95	0.37	83928.40	85891.82	86050.00	0.017
22	49.95	0.37	86908.40	89438.02	89030.00	0.011

Ultimate settlement without correction for buoyancy : 1.476

**** Time since load was applied: 2.00 ****

Elevation	Effective Stress	Pore Pressure
-30.29	3050.00	0.00
-80.29	9150.00	0.00
-130.29	15250.00	0.00
-180.29	21428.05	0.00
-230.28	28157.83	0.00
-280.19	33576.95	0.00
-329.87	39731.71	0.00
-379.31	45465.74	0.00
-428.63	49942.27	2.87
-477.96	53263.99	5.83
-527.36	56247.01	2.96
-576.84	59230.13	0.00
-626.45	62206.84	3.16
-676.18	65183.59	6.40
-725.94	68166.78	3.24
-775.73	71150.02	0.00
-825.56	74129.87	0.12
-875.41	77109.64	0.34
-925.28	80089.78	0.23
-975.18	83070.01	0.00
-1025.10	86049.99	0.00
-1075.03	89029.99	0.00

**** Time since load was applied: 4.00 ****

Elevation	Effective Stress	Pore Pressure
-30.29	3050.00	0.00
-80.29	9150.00	0.00
-130.29	15250.00	0.00
-180.29	21428.05	0.00
-230.28	28157.83	0.00
-280.19	33576.95	0.00
-329.87	39731.71	0.00
-379.31	45465.74	0.00
-428.63	49945.14	0.00
-477.96	53269.81	0.01
-527.36	56249.96	0.00
-576.84	59230.13	0.00
-626.45	62209.99	0.01
-676.18	65189.98	0.01
-725.94	68170.02	0.01
-775.73	71150.02	0.00
-825.56	74129.98	0.00
-875.41	77109.98	0.00
-925.28	80090.01	0.00
-975.18	83070.01	0.00
-1025.10	86049.99	0.00
-1075.03	89029.99	0.00

For this load case		Accumulated		Surface
Time	Settlement	Time	Settlement	elevation
2.00	1.480	26.00	5.286	-5.29
4.00	1.482	28.00	5.288	-5.29

**** L O A D C A S E : 8 ****
**** C h a n g e i n G r o u n d w a t e r E l e v a t i o n ****

Time intervals: 2.00 4.00

Old water elevation ..... -400.00
New water elevation ..... -566.00

Layer	Change in stress
1	0.00
2	0.00
3	0.00
4	0.00
5	0.00
6	0.00
7	0.00
8	0.00
9	1786.57
10	4864.71
11	7947.40
12	10358.41
13	10358.41
14	10358.41
15	10358.40
16	10358.40
17	10358.40
18	10358.40

19	10358.40
20	10358.40
21	10358.40
22	10358.40

Layer	Thick.	Void Ratio	Initial Pressure	Precons. Pressure	Final Pressure	Ult. Settl.
1	50.00	0.37	3050.00	3272.50	3050.00	0.000
2	50.00	0.37	9150.00	9817.50	9150.00	0.000
3	50.00	0.37	15250.00	16362.50	15250.00	0.000
4	50.00	0.37	21428.05	22907.50	21428.05	0.000
5	49.98	0.37	28157.83	29152.62	28157.83	0.000
6	49.84	0.36	33576.95	33576.95	33576.95	0.000
7	49.53	0.36	39731.71	39731.71	39731.71	0.000
8	49.34	0.35	45465.74	45465.74	45465.74	0.000
9	49.30	0.35	49945.14	49945.14	51731.71	0.162
10	49.36	0.35	53269.81	53269.81	58134.52	0.402
11	49.44	0.35	56249.96	56249.96	64197.37	0.608
12	49.52	0.36	59230.13	59230.13	69588.54	0.741
13	49.71	0.36	62209.99	62209.99	72568.41	0.464
14	49.74	0.36	65189.98	65189.98	75548.40	0.444
15	49.78	0.36	68170.02	68170.02	78528.42	0.426
16	49.81	0.36	71150.02	71150.02	81508.41	0.410
17	49.84	0.36	74129.98	74129.98	84488.38	0.394
18	49.86	0.37	77109.98	77109.98	87468.38	0.380
19	49.89	0.37	80090.01	80090.01	90448.41	0.367
20	49.91	0.37	83070.01	83070.01	93428.41	0.354
21	49.93	0.37	86049.99	86049.99	96408.39	0.343
22	49.94	0.37	89029.99	89438.02	99388.39	0.320

Ultimate settlement without correction for buoyancy : 5.815

**** Time since load was applied: 2.00 ****

Elevation	Effective Stress	Pore Pressure
-36.12	3050.00	0.00
-86.12	9150.00	0.00
-136.12	15250.00	0.00
-186.12	21428.05	0.00
-236.11	28157.83	0.00
-286.02	33576.95	0.00
-335.70	39731.71	0.00
-385.12	45912.57	0.00
-434.32	52048.36	5.94
-483.35	58122.48	12.04
-532.26	64022.25	6.11
-581.09	68985.34	0.00
-630.12	72554.37	14.03
-679.39	75519.99	28.42
-728.72	78514.03	14.39
-778.09	81508.41	0.00
-827.52	84473.68	14.71
-876.98	87438.66	29.72
-926.48	90433.40	15.01
-976.02	93428.41	0.00
-1025.59	96408.37	0.01
-1075.19	99388.37	0.01

**** Time since load was applied: 4.00 ****

Elevation	Effective Stress	Pore Pressure
-36.12	3050.00	0.00
-86.12	9150.00	0.00
-136.12	15250.00	0.00
-186.12	21428.05	0.00
-236.11	28157.83	0.00
-286.02	33576.95	0.00
-335.71	39731.71	0.00
-385.13	45912.57	0.00
-434.33	52054.29	0.01
-483.36	58134.51	0.01
-532.26	64028.35	0.01
-581.09	68985.34	0.00
-630.12	72568.38	0.02
-679.39	75548.38	0.04
-728.72	78528.40	0.02
-778.10	81508.41	0.00
-827.52	84488.38	0.02
-876.98	87468.34	0.04
-926.48	90448.40	0.02
-976.02	93428.41	0.00
-1025.59	96408.38	0.00
-1075.19	99388.38	0.00

For this load case | Accumulated | Surface

Time	Settlement	Time	Settlement	elevation
2.00	5.830	30.00	11.118	-11.12
4.00	5.836	32.00	11.124	-11.12

**** L O A D C A S E : 9 ****
**** C h a n g e i n G r o u n d w a t e r E l e v a t i o n ****

Time intervals: 2.00

Old water elevation ..... -566.00
New water elevation ..... -595.00

Layer	Change in stress
1	0.00
2	0.00
3	0.00
4	0.00
5	0.00
6	0.00
7	0.00
8	0.00
9	0.00
10	0.00
11	0.00
12	941.92
13	1809.59
14	1809.59
15	1809.59
16	1809.59
17	1809.59
18	1809.59
19	1809.59
20	1809.59
21	1809.59
22	1809.59

Layer	Thick.	Void Ratio	Initial Pressure	Precons. Pressure	Final Pressure	Ult. Settl.
1	50.00	0.37	3050.00	3272.50	3050.00	0.000
2	50.00	0.37	9150.00	9817.50	9150.00	0.000
3	50.00	0.37	15250.00	16362.50	15250.00	0.000
4	50.00	0.37	21428.05	22907.50	21428.05	0.000
5	49.98	0.37	28157.83	29152.62	28157.83	0.000
6	49.84	0.36	33576.95	33576.95	33576.95	0.000
7	49.53	0.36	39731.71	39731.71	39731.71	0.000
8	49.30	0.35	45912.57	45912.57	45912.57	0.000
9	49.11	0.34	52054.29	52054.29	52054.30	0.000
10	48.96	0.34	58134.51	58134.51	58134.53	0.000
11	48.85	0.34	64028.35	64028.35	64028.36	0.000
12	48.82	0.34	68985.34	68985.34	69927.27	0.062
13	49.24	0.35	72568.38	72568.38	74378.00	0.074
14	49.30	0.35	75548.38	75548.38	77358.02	0.071
15	49.35	0.35	78528.40	78528.40	80338.02	0.069
16	49.40	0.35	81508.41	81508.41	83318.01	0.066
17	49.44	0.35	84488.38	84488.38	86297.99	0.064
18	49.48	0.35	87468.34	87468.34	89277.98	0.062
19	49.52	0.36	90448.40	90448.40	92258.02	0.060
20	49.55	0.36	93428.41	93428.41	95238.00	0.058
21	49.59	0.36	96408.38	96408.38	98217.98	0.056
22	49.62	0.36	99388.38	99388.38	101197.98	0.054

Ultimate settlement without correction for buoyancy : 0.696

**** Time since load was applied: 2.00 ****

Elevation	Effective Stress	Pore Pressure
-36.83	3050.00	0.00
-86.83	9150.00	0.00
-136.83	15250.00	0.00
-186.83	21428.05	0.00
-236.82	28157.83	0.00
-286.73	33576.95	0.00
-336.41	39731.71	0.00
-385.83	45912.58	0.00
-435.03	52054.29	0.00
-484.06	58134.52	0.00
-532.96	64263.91	0.00
-581.75	69907.84	0.00
-630.72	74157.77	2.37
-679.92	77353.21	4.80
-729.17	80335.59	2.43
-778.48	83318.02	0.00
-827.84	86295.50	2.50

-877.24	89272.92	5.04
-926.68	92255.45	2.54
-976.16	95238.01	0.00
-1025.67	98217.98	0.00
-1075.22	101197.98	0.00

For this load case		Accumulated		Surface
Time	Settlement	Time	Settlement	elevation
2.00	0.702	34.00	11.826	-11.83

**** Complete Time Settlement Record ****

Time	Settlement	
2.00	0.000	-200
4.00	0.000	
6.00	0.402	-260
8.00	0.402	
10.00	1.189	-300
12.00	1.191	
14.00	2.356	-331
16.00	2.367	
18.00	2.950	-346
20.00	2.951	
22.00	3.805	-366
24.00	3.806	
26.00	5.286	-400
28.00	5.288	
30.00	11.118	-566
32.00	11.124	
34.00	11.826	-595

same as previous

← did run to find this value

← slightly different than other runs, but OK!!

4cc & cr.cns Lower Bound

-595'

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==========================================================
CONSOL - 1d Consolidation Analysis Program
         Version 3.0
         Virginia Tech, Department of Civil Engineering
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Date: 08/04/2004
Input file : C:\Program Files\Consol\4 Cc & Cr.cns
Output file: C:\Program Files\Consol\4 Cc & Cr.out
Plot file : C:\Program Files\Consol\4 Cc & Cr.dat

Title : White Tanks FRS No. 3 Remediation

**** C O N T R O L D A T A ****

Number of compressible units	11
Number of soil layers	22
Number of different soils	4
Elevation of the ground surface	0.00
Elevation of the top of the compressible soil mass	0.00
Ground water elevation	-220.00
Unit weight of water	62.40
Moist unit wt. of soil btwn grn. surf. & comp. soil mass ...	110.00
Satur. unit wt. of soil btwn grn. surf. & comp. soil mass ..	122.00

220
260
300
331
346
366
400
500
595

**** U N I T B O U N D A R Y D A T A ****

Unit Number	Top Boundary	Bottom Boundary	Drainage Condition
1	1	4	2
2	4	5	2
3	5	8	2
4	8	9	2
5	9	12	2
6	12	13	2
7	13	16	2
8	16	17	2
9	17	20	2
10	20	21	2
11	21	23	2

**** S O I L P R O P E R T Y D A T A ****

Soil Type	Unit Weight	Void Ratio	Cc	Ccs	Cv	Cvs
1	122.00	0.37	0.40	0.04	7000.00	7000.00
2	122.00	0.37	0.39	0.04	7000.00	7000.00
3	122.00	0.37	0.12	0.01	7000.00	7000.00
4	122.00	0.37	0.04	0.00	7000.00	7000.00

**** S U B L A Y E R D A T A ****

Layer	Center Elev	Bottom Elev	Thick	Overbn Pressure	Precons Pressure	Soil Type
1	-25.00	-50.00	50.00	3050.00	3355.00	1
2	-75.00	-100.00	50.00	9150.00	10065.00	1
3	-125.00	-150.00	50.00	15250.00	16775.00	1
4	-175.00	-200.00	50.00	21350.00	23485.00	1
5	-225.00	-250.00	50.00	27138.00	29887.56	1
6	-275.00	-300.00	50.00	30118.00	33523.16	1
7	-325.00	-350.00	50.00	33098.00	37158.76	2
8	-375.00	-400.00	50.00	36078.00	39791.22	2
9	-425.00	-450.00	50.00	39058.00	43337.42	2
10	-475.00	-500.00	50.00	42038.00	46883.62	2
11	-525.00	-550.00	50.00	45018.00	50429.82	2
12	-575.00	-600.00	50.00	47998.00	53976.02	3
13	-625.00	-650.00	50.00	50978.00	57522.22	3
14	-675.00	-700.00	50.00	53958.00	61068.42	3
15	-725.00	-750.00	50.00	56938.00	64614.62	3
16	-775.00	-800.00	50.00	59918.00	68160.82	4
17	-825.00	-850.00	50.00	62898.00	71707.02	4
18	-875.00	-900.00	50.00	65878.00	75253.22	4
19	-925.00	-950.00	50.00	68858.00	78799.42	4
20	-975.00	-1000.00	50.00	71838.00	82345.62	4
21	-1025.00	-1050.00	50.00	74818.00	85891.82	4
22	-1075.00	-1100.00	50.00	77798.00	89438.02	4

**** Number of Loadcases to be Analysed: 9

**** L O A D C A S E : 1 ****
**** C h a n g e i n G r o u n d w a t e r E l e v a t i o n ****

Time intervals: 2.00 4.00

Old water elevation ..... -220.00
New water elevation ..... -220.00

Layer	Change in stress
1	0.00
2	0.00
3	0.00
4	0.00
5	0.00
6	0.00
7	0.00
8	0.00
9	0.00
10	0.00
11	0.00
12	0.00
13	0.00
14	0.00
15	0.00
16	0.00
17	0.00
18	0.00
19	0.00
20	0.00
21	0.00
22	0.00

Layer	Thick.	Void Ratio	Initial Pressure	Precons. Pressure	Final Pressure	Ult. Settl.
1	50.00	0.37	3050.00	3355.00	3050.00	0.000
2	50.00	0.37	9150.00	10065.00	9150.00	0.000
3	50.00	0.37	15250.00	16775.00	15250.00	0.000
4	50.00	0.37	21350.00	23485.00	21350.00	0.000
5	50.00	0.37	27138.00	29887.56	27138.00	0.000
6	50.00	0.37	30118.00	33523.16	30118.00	0.000
7	50.00	0.37	33098.00	37158.76	33098.00	0.000
8	50.00	0.37	36078.00	39791.22	36078.00	0.000
9	50.00	0.37	39058.00	43337.42	39058.00	0.000
10	50.00	0.37	42038.00	46883.62	42038.00	0.000
11	50.00	0.37	45018.00	50429.82	45018.00	0.000
12	50.00	0.37	47998.00	53976.02	47998.00	0.000
13	50.00	0.37	50978.00	57522.22	50978.00	0.000
14	50.00	0.37	53958.00	61068.42	53958.00	0.000
15	50.00	0.37	56938.00	64614.62	56938.00	0.000
16	50.00	0.37	59918.00	68160.82	59918.00	0.000
17	50.00	0.37	62898.00	71707.02	62898.00	0.000
18	50.00	0.37	65878.00	75253.22	65878.00	0.000
19	50.00	0.37	68858.00	78799.42	68858.00	0.000
20	50.00	0.37	71838.00	82345.62	71838.00	0.000
21	50.00	0.37	74818.00	85891.82	74818.00	0.000
22	50.00	0.37	77798.00	89438.02	77798.00	0.000

Ultimate settlement without correction for buoyancy : 0.000

**** Time since load was applied: 2.00 ****

Elevation	Effective Stress	Pore Pressure
-25.00	3050.00	0.00
-75.00	9150.00	0.00
-125.00	15250.00	0.00
-175.00	21350.00	0.00
-225.00	27138.00	0.00
-275.00	30118.00	0.00
-325.00	33098.00	0.00
-375.00	36078.00	0.00
-425.00	39058.00	0.00
-475.00	42038.00	0.00
-525.00	45018.00	0.00
-575.00	47998.00	0.00
-625.00	50978.00	0.00
-675.00	53958.00	0.00
-725.00	56938.00	0.00
-775.00	59918.00	0.00
-825.00	62898.00	0.00
-875.00	65878.00	0.00
-925.00	68858.00	0.00
-975.00	71838.00	0.00
-1025.00	74818.00	0.00
-1075.00	77798.00	0.00

**** Time since load was applied: 4.00 ****

Elevation	Effective Stress	Pore Pressure
-25.00	3050.00	0.00
-75.00	9150.00	0.00
-125.00	15250.00	0.00
-175.00	21350.00	0.00
-225.00	27138.00	0.00
-275.00	30118.00	0.00
-325.00	33098.00	0.00
-375.00	36078.00	0.00
-425.00	39058.00	0.00
-475.00	42038.00	0.00
-525.00	45018.00	0.00
-575.00	47998.00	0.00
-625.00	50978.00	0.00
-675.00	53958.00	0.00
-725.00	56938.00	0.00
-775.00	59918.00	0.00
-825.00	62898.00	0.00
-875.00	65878.00	0.00
-925.00	68858.00	0.00
-975.00	71838.00	0.00
-1025.00	74818.00	0.00
-1075.00	77798.00	0.00

For this load case		Accumulated		Surface
Time	Settlement	Time	Settlement	elevation
2.00	0.000	2.00	0.000	0.00
4.00	0.000	4.00	0.000	0.00

**** L O A D C A S E : 2 ****
**** C h a n g e i n G r o u n d w a t e r E l e v a t i o n ****

Time intervals: 2.00 4.00

Old water elevation ..... -220.00
New water elevation ..... -260.00

Layer	Change in stress
1	0.00
2	0.00
3	0.00
4	0.00
5	312.00
6	2496.00
7	2496.00
8	2496.00
9	2496.00
10	2496.00
11	2496.00
12	2496.00
13	2496.00
14	2496.00
15	2496.00
16	2496.00
17	2496.00
18	2496.00
19	2496.00
20	2496.00
21	2496.00
22	2496.00

Layer	Thick.	Void Ratio	Initial Pressure	Precons. Pressure	Final Pressure	Ult. Settl.
1	50.00	0.37	3050.00	3355.00	3050.00	0.000
2	50.00	0.37	9150.00	10065.00	9150.00	0.000
3	50.00	0.37	15250.00	16775.00	15250.00	0.000
4	50.00	0.37	21350.00	23485.00	21350.00	0.000
5	50.00	0.37	27138.00	29887.56	27450.00	0.007
6	50.00	0.37	30118.00	33523.16	32614.00	0.051
7	50.00	0.37	33098.00	37158.76	35594.00	0.045
8	50.00	0.37	36078.00	39791.22	38574.00	0.041
9	50.00	0.37	39058.00	43337.42	41554.00	0.038
10	50.00	0.37	42038.00	46883.62	44534.00	0.036
11	50.00	0.37	45018.00	50429.82	47514.00	0.033
12	50.00	0.37	47998.00	53976.02	50494.00	0.010
13	50.00	0.37	50978.00	57522.22	53474.00	0.009
14	50.00	0.37	53958.00	61068.42	56454.00	0.009
15	50.00	0.37	56938.00	64614.62	59434.00	0.008
16	50.00	0.37	59918.00	68160.82	62414.00	0.003
17	50.00	0.37	62898.00	71707.02	65394.00	0.002
18	50.00	0.37	65878.00	75253.22	68374.00	0.002
19	50.00	0.37	68858.00	78799.42	71354.00	0.002
20	50.00	0.37	71838.00	82345.62	74334.00	0.002
21	50.00	0.37	74818.00	85891.82	77314.00	0.002

22	50.00	0.37	77798.00	89438.02	80294.00	0.002

Ultimate settlement without correction for buoyancy : 0.303

**** Time since load was applied: 2.00 ****

Elevation	Effective Stress	Pore Pressure
-25.30	3050.00	0.00
-75.30	9150.00	0.00
-125.30	15250.00	0.00
-175.30	21428.00	0.00
-225.29	27914.96	3.05
-275.26	32061.73	6.27
-325.22	35590.78	3.22
-375.18	38574.00	0.00
-425.14	41550.13	3.87
-475.10	44526.13	7.88
-525.07	47509.98	4.01
-575.05	50494.00	0.00
-625.04	53470.07	3.92
-675.03	56446.05	7.95
-725.02	59429.96	4.03
-775.01	62414.00	0.00
-825.01	65390.05	3.95
-875.01	68366.03	7.98
-925.01	71349.96	4.04
-975.01	74334.00	0.00
-1025.00	77313.99	0.00
-1075.00	80293.99	0.00

**** Time since load was applied: 4.00 ****

Elevation	Effective Stress	Pore Pressure
-25.31	3050.00	0.00
-75.31	9150.00	0.00
-125.31	15250.00	0.00
-175.30	21428.00	0.00
-225.29	27917.99	0.01
-275.27	32067.99	0.01
-325.22	35593.99	0.01
-375.18	38574.00	0.00
-425.14	41553.99	0.01
-475.10	44533.99	0.01
-525.07	47513.98	0.01
-575.05	50494.00	0.00
-625.04	53473.98	0.01
-675.03	56453.99	0.01
-725.02	59434.00	0.01
-775.01	62414.00	0.00
-825.01	65394.00	0.01
-875.01	68374.00	0.01
-925.01	71353.98	0.01
-975.01	74334.00	0.00
-1025.00	77314.00	0.00
-1075.00	80294.00	0.00

For this load case		Accumulated		Surface
Time	Settlement	Time	Settlement	elevation
2.00	0.305	6.00	0.305	-0.30
4.00	0.305	8.00	0.305	-0.31

**** L O A D C A S E : 3 ****
**** C h a n g e i n G r o u n d w a t e r E l e v a t i o n ****

Time intervals: 2.00 4.00

Old water elevation ..... -260.00
New water elevation ..... -300.00

Layer	Change in stress
1	0.00
2	0.00
3	0.00
4	0.00
5	0.00
6	952.54
7	2496.00
8	2496.00
9	2496.00
10	2496.00
11	2496.00

12	2496.00
13	2496.00
14	2496.00
15	2496.00
16	2496.00
17	2496.01
18	2496.00
19	2496.00
20	2496.00
21	2496.00
22	2496.00

Layer	Thick.	Void Ratio	Initial Pressure	Precons. Pressure	Final Pressure	Ult. Settl.
1	50.00	0.37	3050.00	3355.00	3050.00	0.000
2	50.00	0.37	9150.00	10065.00	9150.00	0.000
3	50.00	0.37	15250.00	16775.00	15250.00	0.000
4	50.00	0.37	21428.00	23485.00	21428.00	0.000
5	49.98	0.37	27917.99	29887.56	27918.00	0.000
6	49.96	0.37	32067.99	33523.16	33020.54	0.019
7	49.96	0.37	35593.99	37158.76	38089.99	0.180
8	49.96	0.37	38574.00	39791.22	41070.00	0.215
9	49.96	0.37	41553.99	43337.42	44050.00	0.127
10	49.96	0.37	44533.99	46883.62	47030.01	0.051
11	49.97	0.37	47513.98	50429.82	50009.99	0.032
12	49.99	0.37	50494.00	53976.02	52990.00	0.009
13	49.99	0.37	53473.98	57522.22	55969.99	0.009
14	49.99	0.37	56453.99	61068.42	58950.00	0.008
15	49.99	0.37	59434.00	64614.62	61930.00	0.008
16	50.00	0.37	62414.00	68160.82	64910.00	0.002
17	50.00	0.37	65394.00	71707.02	67890.02	0.002
18	50.00	0.37	68374.00	75253.22	70870.02	0.002
19	50.00	0.37	71353.98	78799.42	73849.99	0.002
20	50.00	0.37	74334.00	82345.62	76830.00	0.002
21	50.00	0.37	77314.00	85891.82	79810.00	0.002
22	50.00	0.37	80294.00	89438.02	82790.00	0.002

Ultimate settlement without correction for buoyancy : 0.672

**** Time since load was applied: 2.00 ****

Elevation	Effective Stress	Pore Pressure
-25.92	3050.00	0.00
-75.92	9150.00	0.00
-125.92	15250.00	0.00
-175.92	21428.00	0.00
-225.91	28154.58	1.61
-275.86	33165.01	3.33
-325.75	37702.43	1.72
-375.54	41070.00	0.00
-425.33	44046.18	3.83
-475.21	47022.22	7.79
-525.13	50006.04	3.96
-575.09	52990.00	0.00
-625.07	55966.08	3.92
-675.06	58942.05	7.94
-725.04	61925.98	4.02
-775.03	64910.01	0.00
-825.02	67886.07	3.95
-875.02	70862.03	7.98
-925.01	73845.96	4.03
-975.01	76830.00	0.00
-1025.01	79809.98	0.00
-1075.00	82789.98	0.00

**** Time since load was applied: 4.00 ****

Elevation	Effective Stress	Pore Pressure
-25.92	3050.00	0.00
-75.92	9150.00	0.00
-125.92	15250.00	0.00
-175.92	21428.00	0.00
-225.91	28156.18	0.00
-275.87	33168.33	0.01
-325.75	37704.14	0.00
-375.55	41070.00	0.00
-425.34	44049.99	0.01
-475.21	47029.99	0.01
-525.13	50009.99	0.01
-575.09	52990.00	0.00
-625.07	55969.99	0.01
-675.06	58949.98	0.01
-725.04	61929.99	0.01
-775.03	64910.01	0.00
-825.02	67890.01	0.01
-875.02	70870.00	0.01

-925.01	73849.98	0.01
-975.01	76830.00	0.00
-1025.01	79809.99	0.00
-1075.00	82789.99	0.00

For this load case Time	Settlement	Accumulated Time	Settlement	Surface elevation
2.00	0.615	10.00	0.921	-0.92
4.00	0.617	12.00	0.923	-0.92

**** L O A D C A S E : 4 ****
**** C h a n g e i n G r o u n d w a t e r E l e v a t i o n ****

Time intervals: 2.00 4.00

Old water elevation ..... -300.00
New water elevation ..... -331.00

Layer	Change in stress
1	0.00
2	0.00
3	0.00
4	0.00
5	0.00
6	0.00
7	1607.11
8	1934.40
9	1934.40
10	1934.40
11	1934.40
12	1934.40
13	1934.40
14	1934.40
15	1934.40
16	1934.40
17	1934.40
18	1934.40
19	1934.40
20	1934.40
21	1934.40
22	1934.40

Layer	Thick.	Void Ratio	Initial Pressure	Precons. Pressure	Final Pressure	Ult. Settl.
1	50.00	0.37	3050.00	3355.00	3050.00	0.000
2	50.00	0.37	9150.00	10065.00	9150.00	0.000
3	50.00	0.37	15250.00	16775.00	15250.00	0.000
4	50.00	0.37	21428.00	23485.00	21428.00	0.000
5	49.98	0.37	28156.18	29887.56	28156.19	0.000
6	49.94	0.37	33168.33	33523.16	33168.34	0.000
7	49.84	0.36	37704.14	37704.14	39311.25	0.258
8	49.74	0.36	41070.00	41070.00	43004.41	0.285
9	49.83	0.36	44049.99	44049.99	45984.40	0.266
10	49.91	0.37	47029.99	47029.99	48964.40	0.249
11	49.93	0.37	50009.99	50429.82	51944.39	0.188
12	49.98	0.37	52990.00	53976.02	54924.40	0.037
13	49.98	0.37	55969.99	57522.22	57904.40	0.018
14	49.98	0.37	58949.98	61068.42	60884.40	0.006
15	49.98	0.37	61929.99	64614.62	63864.40	0.006
16	49.99	0.37	64910.01	68160.82	66844.41	0.002
17	50.00	0.37	67890.01	71707.02	69824.41	0.002
18	50.00	0.37	70870.00	75253.22	72804.41	0.002
19	50.00	0.37	73849.98	78799.42	75784.38	0.002
20	50.00	0.37	76830.00	82345.62	78764.40	0.002
21	50.00	0.37	79809.99	85891.82	81744.39	0.002
22	50.00	0.37	82789.99	89438.02	84724.39	0.001

Ultimate settlement without correction for buoyancy : 1.324

**** Time since load was applied: 2.00 ****

Elevation	Effective Stress	Pore Pressure
-27.19	3050.00	0.00
-77.19	9150.00	0.00
-127.19	15250.00	0.00
-177.19	21428.00	0.00
-227.18	28156.15	0.03
-277.13	33570.47	0.05
-326.90	38991.77	0.02
-376.45	42922.66	0.00
-425.97	45966.56	17.84
-475.59	48922.00	42.39

-525.30	51919.84	24.56
-575.15	54924.41	0.00
-625.11	57901.37	3.03
-675.08	60878.25	6.15
-725.05	63861.29	3.11
-775.04	66844.41	0.00
-825.03	69821.36	3.06
-875.03	72798.23	6.18
-925.02	75781.25	3.12
-975.01	78764.40	0.00
-1025.01	81744.38	0.00
-1075.00	84724.38	0.00

**** Time since load was applied: 4.00 ****

Elevation	Effective Stress	Pore Pressure
-27.20	3050.00	0.00
-77.20	9150.00	0.00
-127.20	15250.00	0.00
-177.20	21428.00	0.00
-227.19	28156.19	0.00
-277.14	33570.52	0.00
-326.91	38991.78	0.00
-376.46	42922.66	0.00
-425.98	45984.07	0.32
-475.60	48963.63	0.76
-525.31	51943.95	0.44
-575.15	54924.41	0.00
-625.11	57904.39	0.01
-675.08	60884.38	0.01
-725.05	63864.39	0.01
-775.04	66844.41	0.00
-825.03	69824.41	0.01
-875.03	72804.41	0.01
-925.02	75784.37	0.01
-975.01	78764.40	0.00
-1025.01	81744.38	0.00
-1075.00	84724.38	0.00

For this load case		Accumulated		Surface
Time	Settlement	Time	Settlement	elevation
2.00	1.267	14.00	2.190	-2.19
4.00	1.278	16.00	2.200	-2.20

**** L O A D C A S E : 5 ****
**** C h a n g e i n G r o u n d w a t e r E l e v a t i o n ****

Time intervals: 2.00 4.00

Old water elevation ..... -331.00
New water elevation ..... -346.00

Layer	Change in stress
1	0.00
2	0.00
3	0.00
4	0.00
5	0.00
6	0.00
7	0.00
8	936.00
9	936.00
10	936.00
11	936.00
12	936.00
13	936.00
14	936.00
15	936.00
16	936.00
17	936.00
18	936.00
19	936.00
20	936.00
21	936.00
22	936.00

Layer	Thick.	Void Ratio	Initial Pressure	Precons. Pressure	Final Pressure	Ult. Settl.
1	50.00	0.37	3050.00	3355.00	3050.00	0.000
2	50.00	0.37	9150.00	10065.00	9150.00	0.000
3	50.00	0.37	15250.00	16775.00	15250.00	0.000
4	50.00	0.37	21428.00	23485.00	21428.00	0.000
5	49.98	0.37	28156.19	29887.56	28156.19	0.000

6	49.92	0.37	33570.52	33570.52	33570.52	0.000
7	49.63	0.36	38991.78	38991.78	38991.78	0.000
8	49.47	0.35	42922.66	42922.66	43858.66	0.133
9	49.57	0.36	45984.07	45984.07	46920.39	0.125
10	49.66	0.36	48963.63	48963.63	49900.39	0.117
11	49.75	0.36	51943.95	51943.95	52880.39	0.111
12	49.94	0.37	54924.41	54924.41	55860.41	0.032
13	49.96	0.37	57904.39	57904.39	58840.39	0.031
14	49.98	0.37	60884.38	61068.42	61820.39	0.024
15	49.98	0.37	63864.39	64614.62	64800.40	0.008
16	49.99	0.37	66844.41	68160.82	67780.41	0.001
17	49.99	0.37	69824.41	71707.02	70760.41	0.001
18	49.99	0.37	72804.41	75253.22	73740.41	0.001
19	49.99	0.37	75784.37	78799.42	76720.38	0.001
20	49.99	0.37	78764.40	82345.62	79700.40	0.001
21	49.99	0.37	81744.38	85891.82	82680.38	0.001
22	49.99	0.37	84724.38	89438.02	85660.38	0.001

Ultimate settlement without correction for buoyancy : 0.586

**** Time since load was applied: 2.00 ****

Elevation	Effective Stress	Pore Pressure
-27.79	3050.00	0.00
-77.79	9150.00	0.00
-127.79	15250.00	0.00
-177.79	21428.00	0.00
-227.78	28156.19	0.00
-277.73	33570.52	0.00
-327.48	39226.16	0.00
-376.97	43625.12	0.00
-426.37	46919.10	1.32
-475.87	49897.52	2.68
-525.46	52879.00	1.36
-575.23	55860.52	0.00
-625.16	58840.37	0.03
-675.10	61820.30	0.09
-725.06	64800.33	0.06
-775.04	67780.41	0.00
-825.04	70758.94	1.48
-875.03	73737.41	2.99
-925.02	76718.87	1.51
-975.02	79700.40	0.00
-1025.01	82680.39	0.00
-1075.00	85660.39	0.00

**** Time since load was applied: 4.00 ****

Elevation	Effective Stress	Pore Pressure
-27.79	3050.00	0.00
-77.79	9150.00	0.00
-127.79	15250.00	0.00
-177.79	21428.00	0.00
-227.78	28156.19	0.00
-277.73	33570.52	0.00
-327.48	39226.16	0.00
-376.97	43625.12	0.00
-426.37	46920.41	0.00
-475.87	49900.20	0.00
-525.46	52880.36	0.00
-575.23	55860.52	0.00
-625.16	58840.39	0.00
-675.10	61820.39	0.00
-725.06	64800.39	0.00
-775.04	67780.41	0.00
-825.04	70760.41	0.00
-875.03	73740.40	0.01
-925.02	76720.38	0.00
-975.02	79700.40	0.00
-1025.01	82680.39	0.00
-1075.00	85660.39	0.00

For this load case		Accumulated		Surface
Time	Settlement	Time	Settlement	elevation
2.00	0.589	18.00	2.789	-2.79
4.00	0.590	20.00	2.790	-2.79

**** L O A D C A S E : 6 ****
**** C h a n g e i n G r o u n d w a t e r E l e v a t i o n ****

Time intervals: 2.00 4.00

Old water elevation ..... -346.00
New water elevation ..... -366.00

Layer	Change in stress
1	0.00
2	0.00
3	0.00
4	0.00
5	0.00
6	0.00
7	0.00
8	1248.00
9	1248.00
10	1248.00
11	1248.00
12	1248.00
13	1248.00
14	1248.00
15	1248.00
16	1248.00
17	1248.00
18	1248.00
19	1248.00
20	1248.00
21	1248.00
22	1248.00

Layer	Thick.	Void Ratio	Initial Pressure	Precons. Pressure	Final Pressure	Ult. Settl.
1	50.00	0.37	3050.00	3355.00	3050.00	0.000
2	50.00	0.37	9150.00	10065.00	9150.00	0.000
3	50.00	0.37	15250.00	16775.00	15250.00	0.000
4	50.00	0.37	21428.00	23485.00	21428.00	0.000
5	49.98	0.37	28156.19	29887.56	28156.19	0.000
6	49.92	0.37	33570.52	33570.52	33570.52	0.000
7	49.59	0.36	39226.16	39226.16	39226.16	0.000
8	49.37	0.35	43625.12	43625.12	44873.12	0.174
9	49.44	0.35	46920.41	46920.41	48168.42	0.162
10	49.55	0.36	49900.20	49900.20	51148.20	0.153
11	49.64	0.36	52880.36	52880.36	54128.37	0.144
12	49.91	0.37	55860.52	55860.52	57108.52	0.042
13	49.93	0.37	58840.39	58840.39	60088.39	0.040
14	49.95	0.37	61820.39	61820.39	63068.39	0.038
15	49.97	0.37	64800.39	64800.39	66048.39	0.036
16	49.99	0.37	67780.41	68160.82	69028.41	0.008
17	49.99	0.37	70760.41	71707.02	72008.41	0.004
18	49.99	0.37	73740.40	75253.22	74988.41	0.001
19	49.99	0.37	76720.38	78799.42	77968.38	0.001
20	49.99	0.37	79700.40	82345.62	80948.40	0.001
21	49.99	0.37	82680.39	85891.82	83928.39	0.001
22	49.99	0.37	85660.39	89438.02	86908.39	0.001

Ultimate settlement without correction for buoyancy : 0.807

**** Time since load was applied: 2.00 ****

Elevation	Effective Stress	Pore Pressure
-28.60	3050.00	0.00
-78.60	9150.00	0.00
-128.60	15250.00	0.00
-178.60	21428.00	0.00
-228.59	28156.19	0.00
-278.54	33570.52	0.00
-328.27	39538.86	0.00
-377.66	44561.82	0.00
-426.92	48166.72	1.69
-476.26	51144.75	3.44
-525.71	54126.61	1.75
-575.39	57108.52	0.00
-625.27	60086.46	1.93
-675.17	63064.47	3.91
-725.10	66046.42	1.98
-775.06	69028.41	0.00
-825.04	72006.44	1.97
-875.03	74984.41	3.99
-925.03	77966.36	2.01
-975.02	80948.40	0.00
-1025.01	83928.39	0.00
-1075.00	86908.39	0.00

**** Time since load was applied: 4.00 ****

Elevation	Effective Stress	Pore Pressure
-28.60	3050.00	0.00
-78.60	9150.00	0.00

-128.60	15250.00	0.00
-178.60	21428.00	0.00
-228.59	28156.19	0.00
-278.54	33570.52	0.00
-328.27	39538.86	0.00
-377.66	44561.82	0.00
-426.92	48168.41	0.00
-476.26	51148.19	0.00
-525.71	54128.36	0.00
-575.39	57108.52	0.00
-625.27	60088.39	0.00
-675.17	63068.38	0.01
-725.10	66048.40	0.00
-775.06	69028.41	0.00
-825.04	72008.40	0.00
-875.03	74988.39	0.01
-925.03	77968.37	0.00
-975.02	80948.40	0.00
-1025.01	83928.39	0.00
-1075.00	86908.39	0.00

For this load case		Accumulated		Surface
Time	Settlement	Time	Settlement	elevation
2.00	0.812	22.00	3.602	-3.60
4.00	0.813	24.00	3.603	-3.60

**** L O A D C A S E : 7 ****
**** C h a n g e i n G r o u n d w a t e r E l e v a t i o n ****

Time intervals: 2.00 4.00

Old water elevation ..... -366.00
New water elevation ..... -400.00

Layer	Change in stress
1	0.00
2	0.00
3	0.00
4	0.00
5	0.00
6	0.00
7	0.00
8	727.86
9	2121.60
10	2121.60
11	2121.60
12	2121.60
13	2121.60
14	2121.60
15	2121.59
16	2121.59
17	2121.59
18	2121.59
19	2121.59
20	2121.59
21	2121.59
22	2121.59

Layer	Thick.	Void Ratio	Initial Pressure	Precons. Pressure	Final Pressure	Ult. Settl.
1	50.00	0.37	3050.00	3355.00	3050.00	0.000
2	50.00	0.37	9150.00	10065.00	9150.00	0.000
3	50.00	0.37	15250.00	16775.00	15250.00	0.000
4	50.00	0.37	21428.00	23485.00	21428.00	0.000
5	49.98	0.37	28156.19	29887.56	28156.19	0.000
6	49.92	0.37	33570.52	33570.52	33570.52	0.000
7	49.54	0.36	39538.86	39538.86	39538.86	0.000
8	49.24	0.35	44561.82	44561.82	45289.68	0.100
9	49.28	0.35	48168.41	48168.41	50290.01	0.267
10	49.39	0.35	51148.19	51148.19	53269.79	0.251
11	49.49	0.36	54128.36	54128.36	56249.96	0.238
12	49.87	0.37	57108.52	57108.52	59230.12	0.069
13	49.89	0.37	60088.39	60088.39	62209.99	0.066
14	49.92	0.37	63068.38	63068.38	65189.98	0.063
15	49.93	0.37	66048.40	66048.40	68169.99	0.060
16	49.98	0.37	69028.41	69028.41	71150.00	0.019
17	49.99	0.37	72008.40	72008.40	74129.99	0.018
18	49.99	0.37	74988.39	75253.22	77109.99	0.016
19	49.99	0.37	77968.37	78799.42	80089.96	0.011
20	49.99	0.37	80948.40	82345.62	83069.99	0.007
21	49.99	0.37	83928.39	85891.82	86049.98	0.003
22	49.99	0.37	86908.39	89438.02	89029.98	0.002

Ultimate settlement without correction for buoyancy : 1.190

**** Time since load was applied: 2.00 ****

Elevation	Effective Stress	Pore Pressure
-29.80	3050.00	0.00
-79.80	9150.00	0.00
-129.80	15250.00	0.00
-179.80	21428.00	0.00
-229.79	28156.19	0.00
-279.74	33570.52	0.00
-329.45	39721.39	0.00
-378.77	45456.56	0.00
-427.86	49938.70	2.72
-476.96	53264.26	5.53
-526.16	56247.15	2.81
-575.69	59230.12	0.00
-625.50	62206.75	3.24
-675.34	65183.42	6.56
-725.20	68166.68	3.32
-775.12	71150.00	0.00
-825.09	74129.94	0.06
-875.06	77109.80	0.20
-925.04	80089.81	0.14
-975.03	83069.99	0.00
-1025.01	86049.98	0.00
-1075.00	89029.98	0.00

**** Time since load was applied: 4.00 ****

Elevation	Effective Stress	Pore Pressure
-29.80	3050.00	0.00
-79.80	9150.00	0.00
-129.80	15250.00	0.00
-179.80	21428.00	0.00
-229.79	28156.19	0.00
-279.74	33570.52	0.00
-329.46	39721.39	0.00
-378.77	45456.56	0.00
-427.86	49941.42	0.00
-476.96	53269.78	0.01
-526.16	56249.96	0.00
-575.69	59230.12	0.00
-625.50	62209.99	0.01
-675.34	65189.96	0.01
-725.20	68170.00	0.01
-775.12	71150.00	0.00
-825.09	74129.99	0.00
-875.06	77110.00	0.00
-925.04	80089.95	0.00
-975.03	83069.99	0.00
-1025.01	86049.98	0.00
-1075.00	89029.98	0.00

For this load case		Accumulated		Surface
Time	Settlement	Time	Settlement	elevation
2.00	1.196	26.00	4.800	-4.80
4.00	1.198	28.00	4.801	-4.80

**** L O A D C A S E : 8 ****
**** C h a n g e i n G r o u n d w a t e r E l e v a t i o n ****

Time intervals: 2.00 4.00

Old water elevation ..... -400.00
New water elevation ..... -500.00

Layer	Change in stress
1	0.00
2	0.00
3	0.00
4	0.00
5	0.00
6	0.00
7	0.00
8	0.00
9	1738.44
10	4802.30
11	6240.00
12	6240.00
13	6240.01
14	6240.01
15	6240.01
16	6240.01

17	6240.01
18	6240.01
19	6240.01
20	6240.01
21	6240.01
22	6240.01

Layer	Thick.	Void Ratio	Initial Pressure	Precons. Pressure	Final Pressure	Ult. Settl.
1	50.00	0.37	3050.00	3355.00	3050.00	0.000
2	50.00	0.37	9150.00	10065.00	9150.00	0.000
3	50.00	0.37	15250.00	16775.00	15250.00	0.000
4	50.00	0.37	21428.00	23485.00	21428.00	0.000
5	49.98	0.37	28156.19	29887.56	28156.19	0.000
6	49.92	0.37	33570.52	33570.52	33570.52	0.000
7	49.52	0.36	39721.39	39721.39	39721.39	0.000
8	49.12	0.34	45456.56	45456.56	45456.56	0.000
9	49.06	0.34	49941.42	49941.42	51679.86	0.212
10	49.14	0.35	53269.78	53269.78	58072.09	0.534
11	49.25	0.35	56249.96	56249.96	62489.97	0.651
12	49.80	0.36	59230.12	59230.12	65470.12	0.191
13	49.83	0.36	62209.99	62209.99	68450.00	0.182
14	49.85	0.36	65189.96	65189.96	71429.98	0.174
15	49.87	0.37	68170.00	68170.00	74410.02	0.167
16	49.96	0.37	71150.00	71150.00	77390.01	0.053
17	49.97	0.37	74129.99	74129.99	80370.00	0.051
18	49.98	0.37	77110.00	77110.00	83350.01	0.049
19	49.98	0.37	80089.95	80089.95	86329.96	0.048
20	49.99	0.37	83069.99	83069.99	89310.00	0.046
21	49.99	0.37	86049.98	86049.98	92289.99	0.044
22	49.99	0.37	89029.98	89438.02	95269.99	0.040

Ultimate settlement without correction for buoyancy : 2.442

**** Time since load was applied: 2.00 ****

Elevation	Effective Stress	Pore Pressure
-32.26	3050.00	0.00
-82.26	9150.00	0.00
-132.26	15250.00	0.00
-182.26	21428.00	0.00
-232.24	28156.19	0.00
-282.19	33570.52	0.00
-331.91	39721.39	0.00
-381.20	45891.43	0.00
-430.13	52005.82	5.00
-478.86	57654.32	10.16
-527.51	62124.98	5.16
-576.63	65470.13	0.00
-626.26	68440.81	9.18
-675.93	71411.40	18.59
-725.62	74400.62	9.41
-775.43	77390.01	0.00
-825.34	80360.26	9.74
-875.27	83330.33	19.68
-925.20	86320.03	9.93
-975.13	89310.00	0.00
-1025.08	92289.98	0.01
-1075.02	95269.98	0.01

**** Time since load was applied: 4.00 ****

Elevation	Effective Stress	Pore Pressure
-32.26	3050.00	0.00
-82.26	9150.00	0.00
-132.26	15250.00	0.00
-182.26	21428.00	0.00
-232.25	28156.19	0.00
-282.20	33570.52	0.00
-331.92	39721.39	0.00
-381.20	45891.43	0.00
-430.14	52010.82	0.01
-478.87	57664.48	0.01
-527.51	62130.13	0.01
-576.64	65470.13	0.00
-626.26	68449.98	0.01
-675.93	71429.96	0.03
-725.62	74410.00	0.01
-775.43	77390.01	0.00
-825.34	80369.99	0.02
-875.27	83349.97	0.03
-925.20	86329.95	0.02
-975.13	89310.00	0.00
-1025.08	92289.98	0.00
-1075.02	95269.98	0.00

For this load case Time	Settlement	Accumulated Time	Settlement	Surface elevation
2.00	2.458	30.00	7.259	-7.26
4.00	2.461	32.00	7.262	-7.26

**** L O A D C A S E : 9 ****
**** C h a n g e i n G r o u n d w a t e r E l e v a t i o n ****

Time intervals: 2.00

Old water elevation ..... -500.00
New water elevation ..... -595.00

Layer	Change in stress
1	0.00
2	0.00
3	0.00
4	0.00
5	0.00
6	0.00
7	0.00
8	0.00
9	0.00
10	0.00
11	1716.72
12	4782.09
13	5928.00
14	5928.00
15	5928.00
16	5928.00
17	5928.00
18	5928.00
19	5928.00
20	5928.00
21	5928.00
22	5928.00

Layer	Thick.	Void Ratio	Initial Pressure	Precons. Pressure	Final Pressure	Ult. Settl.
1	50.00	0.37	3050.00	3355.00	3050.00	0.000
2	50.00	0.37	9150.00	10065.00	9150.00	0.000
3	50.00	0.37	15250.00	16775.00	15250.00	0.000
4	50.00	0.37	21428.00	23485.00	21428.00	0.000
5	49.98	0.37	28156.19	29887.56	28156.19	0.000
6	49.92	0.37	33570.52	33570.52	33570.52	0.000
7	49.52	0.36	39721.39	39721.39	39721.39	0.000
8	49.06	0.34	45891.43	45891.43	45891.43	0.000
9	48.81	0.34	52010.82	52010.82	52010.82	0.000
10	48.65	0.33	57664.48	57664.48	57664.49	0.000
11	48.64	0.33	62130.13	62130.13	63846.85	0.169
12	49.61	0.36	65470.13	65470.13	70252.22	0.134
13	49.65	0.36	68449.98	68449.98	74378.00	0.158
14	49.68	0.36	71429.96	71429.96	77357.99	0.152
15	49.71	0.36	74410.00	74410.00	80338.02	0.146
16	49.91	0.37	77390.01	77390.01	83318.01	0.047
17	49.92	0.37	80369.99	80369.99	86298.01	0.045
18	49.93	0.37	83349.97	83349.97	89278.00	0.044
19	49.93	0.37	86329.95	86329.95	92257.97	0.042
20	49.94	0.37	89310.00	89310.00	95238.00	0.041
21	49.95	0.37	92289.98	92289.98	98217.98	0.039
22	49.95	0.37	95269.98	95269.98	101197.98	0.038

Ultimate settlement without correction for buoyancy : 1.055

**** Time since load was applied: 2.00 ****

Elevation	Effective Stress	Pore Pressure
-33.37	3050.00	0.00
-83.37	9150.00	0.00
-133.37	15250.00	0.00
-183.37	21428.00	0.00
-233.36	28156.19	0.00
-283.31	33570.52	0.00
-333.03	39721.39	0.00
-382.31	45891.43	0.00
-431.25	52010.37	0.45
-479.95	58092.82	0.91
-528.48	64176.04	0.46
-577.44	69764.68	0.00
-626.93	74083.03	8.41
-676.44	77340.98	17.01
-725.99	80329.41	8.60

-775.70	83318.02	0.00
-825.57	86288.84	9.17
-875.45	89259.48	18.50
-925.34	92248.63	9.33
-975.23	95238.00	0.00
-1025.13	98217.96	0.01
-1075.04	101197.96	0.01

For this load case		Accumulated		Surface
Time	Settlement	Time	Settlement	elevation
2.00	1.111	34.00	8.373	-8.37

**** Complete Time Settlement Record ****

Time	Settlement	
2.00	0.000	220
4.00	0.000	
6.00	0.305	260
8.00	0.305	
10.00	0.921	300
12.00	0.923	
14.00	2.190	331
16.00	2.200	
18.00	2.789	346
20.00	2.790	
22.00	3.602	366
24.00	3.603	
26.00	4.800	400
28.00	4.801	
30.00	7.259	500
32.00	7.262	
34.00	8.373	595

4 Cc & Cr.cns

Lower Bound
-666'

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==========================================================
CONSOL - 1d Consolidation Analysis Program
         Version 3.0
         Virginia Tech, Department of Civil Engineering
==========================================================
```

Date: 08/10/2004
Input file : C:\Program Files\Consol\4 Cc & Cr.cns
Output file: C:\Program Files\Consol\4 Cc & Cr.out
Plot file : C:\Program Files\Consol\4 Cc & Cr.dat

Title : White Tanks FRS No. 3 Remediation

**** C O N T R O L D A T A ****

Number of compressible units	11
Number of soil layers	22
Number of different soils	4
Elevation of the ground surface	0.00
Elevation of the top of the compressible soil mass	0.00
Ground water elevation	-220.00
Unit weight of water	62.40
Moist unit wt. of soil btwn grn. surf. & comp. soil mass ...	110.00
Satur. unit wt. of soil btwn grn. surf. & comp. soil mass ..	122.00

220
260
300
331
346
366
400
500
666

**** U N I T B O U N D A R Y D A T A ****

Unit Number	Top Boundary	Bottom Boundary	Drainage Condition
1	1	4	2
2	4	5	2
3	5	8	2
4	8	9	2
5	9	12	2
6	12	13	2
7	13	16	2
8	16	17	2
9	17	20	2
10	20	21	2
11	21	23	2

**** S O I L P R O P E R T Y D A T A ****

Soil Type	Unit Weight	Void Ratio	Cc	Ccs	Cv	Cvs
1	122.00	0.37	0.40	0.04	7000.00	7000.00
2	122.00	0.37	0.39	0.04	7000.00	7000.00
3	122.00	0.37	0.12	0.01	7000.00	7000.00
4	122.00	0.37	0.04	0.00	7000.00	7000.00

**** S U B L A Y E R D A T A ****

Layer	Center Elev	Bottom Elev	Thick	Overbn Pressure	Precons Pressure	Soil Type
1	-25.00	-50.00	50.00	3050.00	3355.00	1
2	-75.00	-100.00	50.00	9150.00	10065.00	1
3	-125.00	-150.00	50.00	15250.00	16775.00	1
4	-175.00	-200.00	50.00	21350.00	23485.00	1
5	-225.00	-250.00	50.00	27138.00	29887.56	1
6	-275.00	-300.00	50.00	30118.00	33523.16	1
7	-325.00	-350.00	50.00	33098.00	37158.76	2
8	-375.00	-400.00	50.00	36078.00	39791.22	2
9	-425.00	-450.00	50.00	39058.00	43337.42	2
10	-475.00	-500.00	50.00	42038.00	46883.62	2
11	-525.00	-550.00	50.00	45018.00	50429.82	2
12	-575.00	-600.00	50.00	47998.00	53976.02	3
13	-625.00	-650.00	50.00	50978.00	57522.22	3
14	-675.00	-700.00	50.00	53958.00	61068.42	3
15	-725.00	-750.00	50.00	56938.00	64614.62	3
16	-775.00	-800.00	50.00	59918.00	68160.82	4
17	-825.00	-850.00	50.00	62898.00	71707.02	4
18	-875.00	-900.00	50.00	65878.00	75253.22	4
19	-925.00	-950.00	50.00	68858.00	78799.42	4
20	-975.00	-1000.00	50.00	71838.00	82345.62	4
21	-1025.00	-1050.00	50.00	74818.00	85891.82	4
22	-1075.00	-1100.00	50.00	77798.00	89438.02	4

**** Number of Loadcases to be Analysed: 9

**** L O A D C A S E : 1 ****
**** C h a n g e i n G r o u n d w a t e r E l e v a t i o n ****

Time intervals: 2.00 4.00

Old water elevation ..... -220.00
New water elevation ..... -220.00

Layer	Change in stress
1	0.00
2	0.00
3	0.00
4	0.00
5	0.00
6	0.00
7	0.00
8	0.00
9	0.00
10	0.00
11	0.00
12	0.00
13	0.00
14	0.00
15	0.00
16	0.00
17	0.00
18	0.00
19	0.00
20	0.00
21	0.00
22	0.00

Layer	Thick.	Void Ratio	Initial Pressure	Precons. Pressure	Final Pressure	Ult. Settl.
1	50.00	0.37	3050.00	3355.00	3050.00	0.000
2	50.00	0.37	9150.00	10065.00	9150.00	0.000
3	50.00	0.37	15250.00	16775.00	15250.00	0.000
4	50.00	0.37	21350.00	23485.00	21350.00	0.000
5	50.00	0.37	27138.00	29887.56	27138.00	0.000
6	50.00	0.37	30118.00	33523.16	30118.00	0.000
7	50.00	0.37	33098.00	37158.76	33098.00	0.000
8	50.00	0.37	36078.00	39791.22	36078.00	0.000
9	50.00	0.37	39058.00	43337.42	39058.00	0.000
10	50.00	0.37	42038.00	46883.62	42038.00	0.000
11	50.00	0.37	45018.00	50429.82	45018.00	0.000
12	50.00	0.37	47998.00	53976.02	47998.00	0.000
13	50.00	0.37	50978.00	57522.22	50978.00	0.000
14	50.00	0.37	53958.00	61068.42	53958.00	0.000
15	50.00	0.37	56938.00	64614.62	56938.00	0.000
16	50.00	0.37	59918.00	68160.82	59918.00	0.000
17	50.00	0.37	62898.00	71707.02	62898.00	0.000
18	50.00	0.37	65878.00	75253.22	65878.00	0.000
19	50.00	0.37	68858.00	78799.42	68858.00	0.000
20	50.00	0.37	71838.00	82345.62	71838.00	0.000
21	50.00	0.37	74818.00	85891.82	74818.00	0.000
22	50.00	0.37	77798.00	89438.02	77798.00	0.000

Ultimate settlement without correction for buoyancy : 0.000

**** Time since load was applied: 2.00 ****

Elevation	Effective Stress	Pore Pressure
-25.00	3050.00	0.00
-75.00	9150.00	0.00
-125.00	15250.00	0.00
-175.00	21350.00	0.00
-225.00	27138.00	0.00
-275.00	30118.00	0.00
-325.00	33098.00	0.00
-375.00	36078.00	0.00
-425.00	39058.00	0.00
-475.00	42038.00	0.00
-525.00	45018.00	0.00
-575.00	47998.00	0.00
-625.00	50978.00	0.00
-675.00	53958.00	0.00
-725.00	56938.00	0.00
-775.00	59918.00	0.00
-825.00	62898.00	0.00
-875.00	65878.00	0.00
-925.00	68858.00	0.00
-975.00	71838.00	0.00
-1025.00	74818.00	0.00
-1075.00	77798.00	0.00

**** Time since load was applied: 4.00 ****

Elevation	Effective Stress	Pore Pressure
-25.00	3050.00	0.00
-75.00	9150.00	0.00
-125.00	15250.00	0.00
-175.00	21350.00	0.00
-225.00	27138.00	0.00
-275.00	30118.00	0.00
-325.00	33098.00	0.00
-375.00	36078.00	0.00
-425.00	39058.00	0.00
-475.00	42038.00	0.00
-525.00	45018.00	0.00
-575.00	47998.00	0.00
-625.00	50978.00	0.00
-675.00	53958.00	0.00
-725.00	56938.00	0.00
-775.00	59918.00	0.00
-825.00	62898.00	0.00
-875.00	65878.00	0.00
-925.00	68858.00	0.00
-975.00	71838.00	0.00
-1025.00	74818.00	0.00
-1075.00	77798.00	0.00

For this load case		Accumulated		Surface
Time	Settlement	Time	Settlement	elevation
2.00	0.000	2.00	0.000	0.00
4.00	0.000	4.00	0.000	0.00

**** L O A D C A S E : 2 ****
**** C h a n g e i n G r o u n d w a t e r E l e v a t i o n ****

Time intervals: 2.00 4.00

Old water elevation ..... -220.00
New water elevation ..... -260.00

Layer	Change in stress
1	0.00
2	0.00
3	0.00
4	0.00
5	312.00
6	2496.00
7	2496.00
8	2496.00
9	2496.00
10	2496.00
11	2496.00
12	2496.00
13	2496.00
14	2496.00
15	2496.00
16	2496.00
17	2496.00
18	2496.00
19	2496.00
20	2496.00
21	2496.00
22	2496.00

Layer	Thick.	Void Ratio	Initial Pressure	Precons. Pressure	Final Pressure	Ult. Settl.
1	50.00	0.37	3050.00	3355.00	3050.00	0.000
2	50.00	0.37	9150.00	10065.00	9150.00	0.000
3	50.00	0.37	15250.00	16775.00	15250.00	0.000
4	50.00	0.37	21350.00	23485.00	21350.00	0.000
5	50.00	0.37	27138.00	29887.56	27450.00	0.007
6	50.00	0.37	30118.00	33523.16	32614.00	0.051
7	50.00	0.37	33098.00	37158.76	35594.00	0.045
8	50.00	0.37	36078.00	39791.22	38574.00	0.041
9	50.00	0.37	39058.00	43337.42	41554.00	0.038
10	50.00	0.37	42038.00	46883.62	44534.00	0.036
11	50.00	0.37	45018.00	50429.82	47514.00	0.033
12	50.00	0.37	47998.00	53976.02	50494.00	0.010
13	50.00	0.37	50978.00	57522.22	53474.00	0.009
14	50.00	0.37	53958.00	61068.42	56454.00	0.009
15	50.00	0.37	56938.00	64614.62	59434.00	0.008
16	50.00	0.37	59918.00	68160.82	62414.00	0.003
17	50.00	0.37	62898.00	71707.02	65394.00	0.002
18	50.00	0.37	65878.00	75253.22	68374.00	0.002
19	50.00	0.37	68858.00	78799.42	71354.00	0.002
20	50.00	0.37	71838.00	82345.62	74334.00	0.002
21	50.00	0.37	74818.00	85891.82	77314.00	0.002

22	50.00	0.37	77798.00	89438.02	80294.00	0.002

Ultimate settlement without correction for buoyancy : 0.303

**** Time since load was applied: 2.00 ****

Elevation	Effective Stress	Pore Pressure
-25.30	3050.00	0.00
-75.30	9150.00	0.00
-125.30	15250.00	0.00
-175.30	21428.00	0.00
-225.29	27914.96	3.05
-275.26	32061.73	6.27
-325.22	35590.78	3.22
-375.18	38574.00	0.00
-425.14	41550.13	3.87
-475.10	44526.13	7.88
-525.07	47509.98	4.01
-575.05	50494.00	0.00
-625.04	53470.07	3.92
-675.03	56446.05	7.95
-725.02	59429.96	4.03
-775.01	62414.00	0.00
-825.01	65390.05	3.95
-875.01	68366.03	7.98
-925.01	71349.96	4.04
-975.01	74334.00	0.00
-1025.00	77313.99	0.00
-1075.00	80293.99	0.00

**** Time since load was applied: 4.00 ****

Elevation	Effective Stress	Pore Pressure
-25.31	3050.00	0.00
-75.31	9150.00	0.00
-125.31	15250.00	0.00
-175.30	21428.00	0.00
-225.29	27917.99	0.01
-275.27	32067.99	0.01
-325.22	35593.99	0.01
-375.18	38574.00	0.00
-425.14	41553.99	0.01
-475.10	44533.99	0.01
-525.07	47513.98	0.01
-575.05	50494.00	0.00
-625.04	53473.98	0.01
-675.03	56453.99	0.01
-725.02	59434.00	0.01
-775.01	62414.00	0.00
-825.01	65394.00	0.01
-875.01	68374.00	0.01
-925.01	71353.98	0.01
-975.01	74334.00	0.00
-1025.00	77314.00	0.00
-1075.00	80294.00	0.00

For this load case		Accumulated		Surface
Time	Settlement	Time	Settlement	elevation
2.00	0.305	6.00	0.305	-0.30
4.00	0.305	8.00	0.305	-0.31

**** L O A D C A S E : 3 ****
**** C h a n g e i n G r o u n d w a t e r E l e v a t i o n ****

Time intervals: 2.00 4.00

Old water elevation ..... -260.00
New water elevation ..... -300.00

Layer	Change in stress
1	0.00
2	0.00
3	0.00
4	0.00
5	0.00
6	952.54
7	2496.00
8	2496.00
9	2496.00
10	2496.00
11	2496.00

12	2496.00
13	2496.00
14	2496.00
15	2496.00
16	2496.00
17	2496.01
18	2496.00
19	2496.00
20	2496.00
21	2496.00
22	2496.00

Layer	Thick.	Void Ratio	Initial Pressure	Precons. Pressure	Final Pressure	Ult. Settl.
1	50.00	0.37	3050.00	3355.00	3050.00	0.000
2	50.00	0.37	9150.00	10065.00	9150.00	0.000
3	50.00	0.37	15250.00	16775.00	15250.00	0.000
4	50.00	0.37	21428.00	23485.00	21428.00	0.000
5	49.98	0.37	27917.99	29887.56	27918.00	0.000
6	49.96	0.37	32067.99	33523.16	33020.54	0.019
7	49.96	0.37	35593.99	37158.76	38089.99	0.180
8	49.96	0.37	38574.00	39791.22	41070.00	0.215
9	49.96	0.37	41553.99	43337.42	44050.00	0.127
10	49.96	0.37	44533.99	46883.62	47030.01	0.051
11	49.97	0.37	47513.98	50429.82	50009.99	0.032
12	49.99	0.37	50494.00	53976.02	52990.00	0.009
13	49.99	0.37	53473.98	57522.22	55969.99	0.009
14	49.99	0.37	56453.99	61068.42	58950.00	0.008
15	49.99	0.37	59434.00	64614.62	61930.00	0.008
16	50.00	0.37	62414.00	68160.82	64910.00	0.002
17	50.00	0.37	65394.00	71707.02	67890.02	0.002
18	50.00	0.37	68374.00	75253.22	70870.02	0.002
19	50.00	0.37	71353.98	78799.42	73849.99	0.002
20	50.00	0.37	74334.00	82345.62	76830.00	0.002
21	50.00	0.37	77314.00	85891.82	79810.00	0.002
22	50.00	0.37	80294.00	89438.02	82790.00	0.002

Ultimate settlement without correction for buoyancy : 0.672

**** Time since load was applied: 2.00 ****

Elevation	Effective Stress	Pore Pressure
-25.92	3050.00	0.00
-75.92	9150.00	0.00
-125.92	15250.00	0.00
-175.92	21428.00	0.00
-225.91	28154.58	1.61
-275.86	33165.01	3.33
-325.75	37702.43	1.72
-375.54	41070.00	0.00
-425.33	44046.18	3.83
-475.21	47022.22	7.79
-525.13	50006.04	3.96
-575.09	52990.00	0.00
-625.07	55966.08	3.92
-675.06	58942.05	7.94
-725.04	61925.98	4.02
-775.03	64910.01	0.00
-825.02	67886.07	3.95
-875.02	70862.03	7.98
-925.01	73845.96	4.03
-975.01	76830.00	0.00
-1025.01	79809.98	0.00
-1075.00	82789.98	0.00

**** Time since load was applied: 4.00 ****

Elevation	Effective Stress	Pore Pressure
-25.92	3050.00	0.00
-75.92	9150.00	0.00
-125.92	15250.00	0.00
-175.92	21428.00	0.00
-225.91	28156.18	0.00
-275.87	33168.33	0.01
-325.75	37704.14	0.00
-375.55	41070.00	0.00
-425.34	44049.99	0.01
-475.21	47029.99	0.01
-525.13	50009.99	0.01
-575.09	52990.00	0.00
-625.07	55969.99	0.01
-675.06	58949.98	0.01
-725.04	61929.99	0.01
-775.03	64910.01	0.00
-825.02	67890.01	0.01
-875.02	70870.00	0.01

-925.01	73849.98	0.01
-975.01	76830.00	0.00
-1025.01	79809.99	0.00
-1075.00	82789.99	0.00

For this load case Time	Settlement	Accumulated Time	Settlement	Surface elevation
2.00	0.615	10.00	0.921	-0.92
4.00	0.617	12.00	0.923	-0.92

**** L O A D C A S E : 4 ****
**** C h a n g e i n G r o u n d w a t e r E l e v a t i o n ****

Time intervals: 2.00 4.00

Old water elevation ..... -300.00
New water elevation ..... -331.00

Layer	Change in stress
1	0.00
2	0.00
3	0.00
4	0.00
5	0.00
6	0.00
7	1607.11
8	1934.40
9	1934.40
10	1934.40
11	1934.40
12	1934.40
13	1934.40
14	1934.40
15	1934.40
16	1934.40
17	1934.40
18	1934.40
19	1934.40
20	1934.40
21	1934.40
22	1934.40

Layer	Thick.	Void Ratio	Initial Pressure	Precons. Pressure	Final Pressure	Ult. Settl.
1	50.00	0.37	3050.00	3355.00	3050.00	0.000
2	50.00	0.37	9150.00	10065.00	9150.00	0.000
3	50.00	0.37	15250.00	16775.00	15250.00	0.000
4	50.00	0.37	21428.00	23485.00	21428.00	0.000
5	49.98	0.37	28156.18	29887.56	28156.19	0.000
6	49.94	0.37	33168.33	33523.16	33168.34	0.000
7	49.84	0.36	37704.14	37704.14	39311.25	0.258
8	49.74	0.36	41070.00	41070.00	43004.41	0.285
9	49.83	0.36	44049.99	44049.99	45984.40	0.266
10	49.91	0.37	47029.99	47029.99	48964.40	0.249
11	49.93	0.37	50009.99	50429.82	51944.39	0.188
12	49.98	0.37	52990.00	53976.02	54924.40	0.037
13	49.98	0.37	55969.99	57522.22	57904.40	0.018
14	49.98	0.37	58949.98	61068.42	60884.40	0.006
15	49.98	0.37	61929.99	64614.62	63864.40	0.006
16	49.99	0.37	64910.01	68160.82	66844.41	0.002
17	50.00	0.37	67890.01	71707.02	69824.41	0.002
18	50.00	0.37	70870.00	75253.22	72804.41	0.002
19	50.00	0.37	73849.98	78799.42	75784.38	0.002
20	50.00	0.37	76830.00	82345.62	78764.40	0.002
21	50.00	0.37	79809.99	85891.82	81744.39	0.002
22	50.00	0.37	82789.99	89438.02	84724.39	0.001

Ultimate settlement without correction for buoyancy : 1.324

**** Time since load was applied: 2.00 ****

Elevation	Effective Stress	Pore Pressure
-27.19	3050.00	0.00
-77.19	9150.00	0.00
-127.19	15250.00	0.00
-177.19	21428.00	0.00
-227.18	28156.15	0.03
-277.13	33570.47	0.05
-326.90	38991.77	0.02
-376.45	42922.66	0.00
-425.97	45966.56	17.84
-475.59	48922.00	42.39

-525.30	51919.84	24.56
-575.15	54924.41	0.00
-625.11	57901.37	3.03
-675.08	60878.25	6.15
-725.05	63861.29	3.11
-775.04	66844.41	0.00
-825.03	69821.36	3.06
-875.03	72798.23	6.18
-925.02	75781.25	3.12
-975.01	78764.40	0.00
-1025.01	81744.38	0.00
-1075.00	84724.38	0.00

**** Time since load was applied: 4.00 ****

Elevation	Effective Stress	Pore Pressure
-27.20	3050.00	0.00
-77.20	9150.00	0.00
-127.20	15250.00	0.00
-177.20	21428.00	0.00
-227.19	28156.19	0.00
-277.14	33570.52	0.00
-326.91	38991.78	0.00
-376.46	42922.66	0.00
-425.98	45984.07	0.32
-475.60	48963.63	0.76
-525.31	51943.95	0.44
-575.15	54924.41	0.00
-625.11	57904.39	0.01
-675.08	60884.38	0.01
-725.05	63864.39	0.01
-775.04	66844.41	0.00
-825.03	69824.41	0.01
-875.03	72804.41	0.01
-925.02	75784.37	0.01
-975.01	78764.40	0.00
-1025.01	81744.38	0.00
-1075.00	84724.38	0.00

For this load case		Accumulated		Surface
Time	Settlement	Time	Settlement	elevation
2.00	1.267	14.00	2.190	-2.19
4.00	1.278	16.00	2.200	-2.20

**** L O A D C A S E : 5 ****
**** C h a n g e i n G r o u n d w a t e r E l e v a t i o n ****

Time intervals: 2.00 4.00

Old water elevation ..... -331.00
New water elevation ..... -346.00

Layer	Change in stress
1	0.00
2	0.00
3	0.00
4	0.00
5	0.00
6	0.00
7	0.00
8	936.00
9	936.00
10	936.00
11	936.00
12	936.00
13	936.00
14	936.00
15	936.00
16	936.00
17	936.00
18	936.00
19	936.00
20	936.00
21	936.00
22	936.00

Layer	Thick.	Void Ratio	Initial Pressure	Precons. Pressure	Final Pressure	Ult. Settl.
1	50.00	0.37	3050.00	3355.00	3050.00	0.000
2	50.00	0.37	9150.00	10065.00	9150.00	0.000
3	50.00	0.37	15250.00	16775.00	15250.00	0.000
4	50.00	0.37	21428.00	23485.00	21428.00	0.000
5	49.98	0.37	28156.19	29887.56	28156.19	0.000

6	49.92	0.37	33570.52	33570.52	33570.52	0.000
7	49.63	0.36	38991.78	38991.78	38991.78	0.000
8	49.47	0.35	42922.66	42922.66	43858.66	0.133
9	49.57	0.36	45984.07	45984.07	46920.39	0.125
10	49.66	0.36	48963.63	48963.63	49900.39	0.117
11	49.75	0.36	51943.95	51943.95	52880.39	0.111
12	49.94	0.37	54924.41	54924.41	55860.41	0.032
13	49.96	0.37	57904.39	57904.39	58840.39	0.031
14	49.98	0.37	60884.38	61068.42	61820.39	0.024
15	49.98	0.37	63864.39	64614.62	64800.40	0.008
16	49.99	0.37	66844.41	68160.82	67780.41	0.001
17	49.99	0.37	69824.41	71707.02	70760.41	0.001
18	49.99	0.37	72804.41	75253.22	73740.41	0.001
19	49.99	0.37	75784.37	78799.42	76720.38	0.001
20	49.99	0.37	78764.40	82345.62	79700.40	0.001
21	49.99	0.37	81744.38	85891.82	82680.38	0.001
22	49.99	0.37	84724.38	89438.02	85660.38	0.001

Ultimate settlement without correction for buoyancy : 0.586

**** Time since load was applied: 2.00 ****

Elevation	Effective Stress	Pore Pressure
-27.79	3050.00	0.00
-77.79	9150.00	0.00
-127.79	15250.00	0.00
-177.79	21428.00	0.00
-227.78	28156.19	0.00
-277.73	33570.52	0.00
-327.48	39226.16	0.00
-376.97	43625.12	0.00
-426.37	46919.10	1.32
-475.87	49897.52	2.68
-525.46	52879.00	1.36
-575.23	55860.52	0.00
-625.16	58840.37	0.03
-675.10	61820.30	0.09
-725.06	64800.33	0.06
-775.04	67780.41	0.00
-825.04	70758.94	1.48
-875.03	73737.41	2.99
-925.02	76718.87	1.51
-975.02	79700.40	0.00
-1025.01	82680.39	0.00
-1075.00	85660.39	0.00

**** Time since load was applied: 4.00 ****

Elevation	Effective Stress	Pore Pressure
-27.79	3050.00	0.00
-77.79	9150.00	0.00
-127.79	15250.00	0.00
-177.79	21428.00	0.00
-227.78	28156.19	0.00
-277.73	33570.52	0.00
-327.48	39226.16	0.00
-376.97	43625.12	0.00
-426.37	46920.41	0.00
-475.87	49900.20	0.00
-525.46	52880.36	0.00
-575.23	55860.52	0.00
-625.16	58840.39	0.00
-675.10	61820.39	0.00
-725.06	64800.39	0.00
-775.04	67780.41	0.00
-825.04	70760.41	0.00
-875.03	73740.40	0.01
-925.02	76720.38	0.00
-975.02	79700.40	0.00
-1025.01	82680.39	0.00
-1075.00	85660.39	0.00

For this load case		Accumulated		Surface
Time	Settlement	Time	Settlement	elevation
2.00	0.589	18.00	2.789	-2.79
4.00	0.590	20.00	2.790	-2.79

**** L O A D C A S E : 6 ****
**** C h a n g e i n G r o u n d w a t e r E l e v a t i o n ****

Time intervals: 2.00 4.00

Old water elevation ..... -346.00
New water elevation ..... -366.00

Layer	Change in stress
1	0.00
2	0.00
3	0.00
4	0.00
5	0.00
6	0.00
7	0.00
8	1248.00
9	1248.00
10	1248.00
11	1248.00
12	1248.00
13	1248.00
14	1248.00
15	1248.00
16	1248.00
17	1248.00
18	1248.00
19	1248.00
20	1248.00
21	1248.00
22	1248.00

Layer	Thick.	Void Ratio	Initial Pressure	Precons. Pressure	Final Pressure	Ult. Settl.
1	50.00	0.37	3050.00	3355.00	3050.00	0.000
2	50.00	0.37	9150.00	10065.00	9150.00	0.000
3	50.00	0.37	15250.00	16775.00	15250.00	0.000
4	50.00	0.37	21428.00	23485.00	21428.00	0.000
5	49.98	0.37	28156.19	29887.56	28156.19	0.000
6	49.92	0.37	33570.52	33570.52	33570.52	0.000
7	49.59	0.36	39226.16	39226.16	39226.16	0.000
8	49.37	0.35	43625.12	43625.12	44873.12	0.174
9	49.44	0.35	46920.41	46920.41	48168.42	0.162
10	49.55	0.36	49900.20	49900.20	51148.20	0.153
11	49.64	0.36	52880.36	52880.36	54128.37	0.144
12	49.91	0.37	55860.52	55860.52	57108.52	0.042
13	49.93	0.37	58840.39	58840.39	60088.39	0.040
14	49.95	0.37	61820.39	61820.39	63068.39	0.038
15	49.97	0.37	64800.39	64800.39	66048.39	0.036
16	49.99	0.37	67780.41	68160.82	69028.41	0.008
17	49.99	0.37	70760.41	71707.02	72008.41	0.004
18	49.99	0.37	73740.40	75253.22	74988.41	0.001
19	49.99	0.37	76720.38	78799.42	77968.38	0.001
20	49.99	0.37	79700.40	82345.62	80948.40	0.001
21	49.99	0.37	82680.39	85891.82	83928.39	0.001
22	49.99	0.37	85660.39	89438.02	86908.39	0.001

Ultimate settlement without correction for buoyancy : 0.807

**** Time since load was applied: 2.00 ****

Elevation	Effective Stress	Pore Pressure
-28.60	3050.00	0.00
-78.60	9150.00	0.00
-128.60	15250.00	0.00
-178.60	21428.00	0.00
-228.59	28156.19	0.00
-278.54	33570.52	0.00
-328.27	39538.86	0.00
-377.66	44561.82	0.00
-426.92	48166.72	1.69
-476.26	51144.75	3.44
-525.71	54126.61	1.75
-575.39	57108.52	0.00
-625.27	60086.46	1.93
-675.17	63064.47	3.91
-725.10	66046.42	1.98
-775.06	69028.41	0.00
-825.04	72006.44	1.97
-875.03	74984.41	3.99
-925.03	77966.36	2.01
-975.02	80948.40	0.00
-1025.01	83928.39	0.00
-1075.00	86908.39	0.00

**** Time since load was applied: 4.00 ****

Elevation	Effective Stress	Pore Pressure
-28.60	3050.00	0.00
-78.60	9150.00	0.00

-128.60	15250.00	0.00
-178.60	21428.00	0.00
-228.59	28156.19	0.00
-278.54	33570.52	0.00
-328.27	39538.86	0.00
-377.66	44561.82	0.00
-426.92	48168.41	0.00
-476.26	51148.19	0.00
-525.71	54128.36	0.00
-575.39	57108.52	0.00
-625.27	60088.39	0.00
-675.17	63068.38	0.01
-725.10	66048.40	0.00
-775.06	69028.41	0.00
-825.04	72008.40	0.00
-875.03	74988.39	0.01
-925.03	77968.37	0.00
-975.02	80948.40	0.00
-1025.01	83928.39	0.00
-1075.00	86908.39	0.00

For this load case		Accumulated		Surface
Time	Settlement	Time	Settlement	elevation
2.00	0.812	22.00	3.602	-3.60
4.00	0.813	24.00	3.603	-3.60

**** L O A D C A S E : 7 ****
**** C h a n g e i n G r o u n d w a t e r E l e v a t i o n ****

Time intervals: 2.00 4.00

Old water elevation ..... -366.00
New water elevation ..... -400.00

Layer	Change in stress
1	0.00
2	0.00
3	0.00
4	0.00
5	0.00
6	0.00
7	0.00
8	727.86
9	2121.60
10	2121.60
11	2121.60
12	2121.60
13	2121.60
14	2121.60
15	2121.59
16	2121.59
17	2121.59
18	2121.59
19	2121.59
20	2121.59
21	2121.59
22	2121.59

Layer	Thick.	Void Ratio	Initial Pressure	Precons. Pressure	Final Pressure	Ult. Settl.
1	50.00	0.37	3050.00	3355.00	3050.00	0.000
2	50.00	0.37	9150.00	10065.00	9150.00	0.000
3	50.00	0.37	15250.00	16775.00	15250.00	0.000
4	50.00	0.37	21428.00	23485.00	21428.00	0.000
5	49.98	0.37	28156.19	29887.56	28156.19	0.000
6	49.92	0.37	33570.52	33570.52	33570.52	0.000
7	49.54	0.36	39538.86	39538.86	39538.86	0.000
8	49.24	0.35	44561.82	44561.82	45289.68	0.100
9	49.28	0.35	48168.41	48168.41	50290.01	0.267
10	49.39	0.35	51148.19	51148.19	53269.79	0.251
11	49.49	0.36	54128.36	54128.36	56249.96	0.238
12	49.87	0.37	57108.52	57108.52	59230.12	0.069
13	49.89	0.37	60088.39	60088.39	62209.99	0.066
14	49.92	0.37	63068.38	63068.38	65189.98	0.063
15	49.93	0.37	66048.40	66048.40	68169.99	0.060
16	49.98	0.37	69028.41	69028.41	71150.00	0.019
17	49.99	0.37	72008.40	72008.40	74129.99	0.018
18	49.99	0.37	74988.39	75253.22	77109.99	0.016
19	49.99	0.37	77968.37	78799.42	80089.96	0.011
20	49.99	0.37	80948.40	82345.62	83069.99	0.007
21	49.99	0.37	83928.39	85891.82	86049.98	0.003
22	49.99	0.37	86908.39	89438.02	89029.98	0.002

Ultimate settlement without correction for buoyancy : 1.190

**** Time since load was applied: 2.00 ****

Elevation	Effective Stress	Pore Pressure
-29.80	3050.00	0.00
-79.80	9150.00	0.00
-129.80	15250.00	0.00
-179.80	21428.00	0.00
-229.79	28156.19	0.00
-279.74	33570.52	0.00
-329.45	39721.39	0.00
-378.77	45456.56	0.00
-427.86	49938.70	2.72
-476.96	53264.26	5.53
-526.16	56247.15	2.81
-575.69	59230.12	0.00
-625.50	62206.75	3.24
-675.34	65183.42	6.56
-725.20	68166.68	3.32
-775.12	71150.00	0.00
-825.09	74129.94	0.06
-875.06	77109.80	0.20
-925.04	80089.81	0.14
-975.03	83069.99	0.00
-1025.01	86049.98	0.00
-1075.00	89029.98	0.00

**** Time since load was applied: 4.00 ****

Elevation	Effective Stress	Pore Pressure
-29.80	3050.00	0.00
-79.80	9150.00	0.00
-129.80	15250.00	0.00
-179.80	21428.00	0.00
-229.79	28156.19	0.00
-279.74	33570.52	0.00
-329.46	39721.39	0.00
-378.77	45456.56	0.00
-427.86	49941.42	0.00
-476.96	53269.78	0.01
-526.16	56249.96	0.00
-575.69	59230.12	0.00
-625.50	62209.99	0.01
-675.34	65189.96	0.01
-725.20	68170.00	0.01
-775.12	71150.00	0.00
-825.09	74129.99	0.00
-875.06	77110.00	0.00
-925.04	80089.95	0.00
-975.03	83069.99	0.00
-1025.01	86049.98	0.00
-1075.00	89029.98	0.00

For this load case		Accumulated		Surface
Time	Settlement	Time	Settlement	elevation
2.00	1.196	26.00	4.800	-4.80
4.00	1.198	28.00	4.801	-4.80

**** L O A D C A S E : 8 ****
**** C h a n g e i n G r o u n d w a t e r E l e v a t i o n ****

Time intervals: 2.00 4.00

Old water elevation ..... -400.00
New water elevation ..... -500.00

Layer	Change in stress
1	0.00
2	0.00
3	0.00
4	0.00
5	0.00
6	0.00
7	0.00
8	0.00
9	1738.44
10	4802.30
11	6240.00
12	6240.00
13	6240.01
14	6240.01
15	6240.01
16	6240.01

17	6240.01
18	6240.01
19	6240.01
20	6240.01
21	6240.01
22	6240.01

Layer	Thick.	Void Ratio	Initial Pressure	Precons. Pressure	Final Pressure	Ult. Settl.
1	50.00	0.37	3050.00	3355.00	3050.00	0.000
2	50.00	0.37	9150.00	10065.00	9150.00	0.000
3	50.00	0.37	15250.00	16775.00	15250.00	0.000
4	50.00	0.37	21428.00	23485.00	21428.00	0.000
5	49.98	0.37	28156.19	29887.56	28156.19	0.000
6	49.92	0.37	33570.52	33570.52	33570.52	0.000
7	49.52	0.36	39721.39	39721.39	39721.39	0.000
8	49.12	0.34	45456.56	45456.56	45456.56	0.000
9	49.06	0.34	49941.42	49941.42	51679.86	0.212
10	49.14	0.35	53269.78	53269.78	58072.09	0.534
11	49.25	0.35	56249.96	56249.96	62489.97	0.651
12	49.80	0.36	59230.12	59230.12	65470.12	0.191
13	49.83	0.36	62209.99	62209.99	68450.00	0.182
14	49.85	0.36	65189.96	65189.96	71429.98	0.174
15	49.87	0.37	68170.00	68170.00	74410.02	0.167
16	49.96	0.37	71150.00	71150.00	77390.01	0.053
17	49.97	0.37	74129.99	74129.99	80370.00	0.051
18	49.98	0.37	77110.00	77110.00	83350.01	0.049
19	49.98	0.37	80089.95	80089.95	86329.96	0.048
20	49.99	0.37	83069.99	83069.99	89310.00	0.046
21	49.99	0.37	86049.98	86049.98	92289.99	0.044
22	49.99	0.37	89029.98	89438.02	95269.99	0.040

Ultimate settlement without correction for buoyancy : 2.442

**** Time since load was applied: 2.00 ****

Elevation	Effective Stress	Pore Pressure
-32.26	3050.00	0.00
-82.26	9150.00	0.00
-132.26	15250.00	0.00
-182.26	21428.00	0.00
-232.24	28156.19	0.00
-282.19	33570.52	0.00
-331.91	39721.39	0.00
-381.20	45891.43	0.00
-430.13	52005.82	5.00
-478.86	57654.32	10.16
-527.51	62124.98	5.16
-576.63	65470.13	0.00
-626.26	68440.81	9.18
-675.93	71411.40	18.59
-725.62	74400.62	9.41
-775.43	77390.01	0.00
-825.34	80360.26	9.74
-875.27	83330.33	19.68
-925.20	86320.03	9.93
-975.13	89310.00	0.00
-1025.08	92289.98	0.01
-1075.02	95269.98	0.01

**** Time since load was applied: 4.00 ****

Elevation	Effective Stress	Pore Pressure
-32.26	3050.00	0.00
-82.26	9150.00	0.00
-132.26	15250.00	0.00
-182.26	21428.00	0.00
-232.25	28156.19	0.00
-282.20	33570.52	0.00
-331.92	39721.39	0.00
-381.20	45891.43	0.00
-430.14	52010.82	0.01
-478.87	57664.48	0.01
-527.51	62130.13	0.01
-576.64	65470.13	0.00
-626.26	68449.98	0.01
-675.93	71429.96	0.03
-725.62	74410.00	0.01
-775.43	77390.01	0.00
-825.34	80369.99	0.02
-875.27	83349.97	0.03
-925.20	86329.95	0.02
-975.13	89310.00	0.00
-1025.08	92289.98	0.00
-1075.02	95269.98	0.00

For this load case Time	Settlement	Accumulated Time	Settlement	Surface elevation
2.00	2.458	30.00	7.259	-7.26
4.00	2.461	32.00	7.262	-7.26

**** L O A D C A S E : 9 ****
**** C h a n g e i n G r o u n d w a t e r E l e v a t i o n ****

Time intervals: 2.00

Old water elevation ..... -500.00
New water elevation ..... -666.00

Layer	Change in stress
1	0.00
2	0.00
3	0.00
4	0.00
5	0.00
6	0.00
7	0.00
8	0.00
9	0.00
10	0.00
11	1716.72
12	4782.09
13	7878.89
14	10358.41
15	10358.40
16	10358.40
17	10358.40
18	10358.40
19	10358.40
20	10358.40
21	10358.40
22	10358.40

Layer	Thick.	Void Ratio	Initial Pressure	Precons. Pressure	Final Pressure	Ult. Settl.
1	50.00	0.37	3050.00	3355.00	3050.00	0.000
2	50.00	0.37	9150.00	10065.00	9150.00	0.000
3	50.00	0.37	15250.00	16775.00	15250.00	0.000
4	50.00	0.37	21428.00	23485.00	21428.00	0.000
5	49.98	0.37	28156.19	29887.56	28156.19	0.000
6	49.92	0.37	33570.52	33570.52	33570.52	0.000
7	49.52	0.36	39721.39	39721.39	39721.39	0.000
8	49.06	0.34	45891.43	45891.43	45891.43	0.000
9	48.81	0.34	52010.82	52010.82	52010.82	0.000
10	48.65	0.33	57664.48	57664.48	57664.49	0.000
11	48.64	0.33	62130.13	62130.13	63846.85	0.169
12	49.61	0.36	65470.13	65470.13	70252.22	0.134
13	49.65	0.36	68449.98	68449.98	76328.89	0.207
14	49.68	0.36	71429.96	71429.96	81788.40	0.258
15	49.71	0.36	74410.00	74410.00	84768.41	0.248
16	49.91	0.37	77390.01	77390.01	87748.41	0.080
17	49.92	0.37	80369.99	80369.99	90728.41	0.077
18	49.93	0.37	83349.97	83349.97	93708.40	0.074
19	49.93	0.37	86329.95	86329.95	96688.37	0.072
20	49.94	0.37	89310.00	89310.00	99668.40	0.070
21	49.95	0.37	92289.98	92289.98	102648.38	0.067
22	49.95	0.37	95269.98	95269.98	105628.38	0.065

Ultimate settlement without correction for buoyancy : 1.521

**** Time since load was applied: 2.00 ****

Elevation	Effective Stress	Pore Pressure
-33.84	3050.00	0.00
-83.84	9150.00	0.00
-133.84	15250.00	0.00
-183.84	21428.00	0.00
-233.83	28156.19	0.00
-283.78	33570.52	0.00
-333.50	39721.39	0.00
-382.78	45891.43	0.00
-431.72	52010.37	0.45
-480.42	58092.82	0.91
-528.94	64176.04	0.46
-577.90	70252.23	0.00
-627.36	76160.51	13.58
-676.80	81140.86	27.46
-726.25	84754.54	13.88

-775.89	87748.41	0.00
-825.73	90712.49	15.92
-875.58	93676.26	32.13
-925.44	96672.16	16.21
-975.30	99668.41	0.00
-1025.18	102648.37	0.02
-1075.06	105628.37	0.02

For this load case		Accumulated		Surface
Time	Settlement	Time	Settlement	elevation
2.00	1.579	34.00	8.841	-8.84

**** Complete Time Settlement Record ****

Time	Settlement	
2.00	0.000	-220
4.00	0.000	
6.00	0.305	260
8.00	0.305	
10.00	0.921	-300
12.00	0.923	
14.00	2.190	-331
16.00	2.200	
18.00	2.789	-346
20.00	2.790	
22.00	3.602	-366
24.00	3.603	
26.00	4.800	-400
28.00	4.801	
30.00	7.259	-500
32.00	7.262	
34.00	8.841	-666 ← addition point

LOWER BOUND

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==========================================================
CONSOL - 1d Consolidation Analysis Program
         Version 3.0
         Virginia Tech, Department of Civil Engineering
==========================================================
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220
260
300
331
346
366
400
566
595

Date: 08/10/2004
Input file : C:\Program Files\Consol\4 Cc & Cr.cns
Output file: C:\Program Files\Consol\4 Cc & Cr.out
Plot file : C:\Program Files\Consol\4 Cc & Cr.dat

Title : White Tanks FRS No. 3 Remediation

**** C O N T R O L D A T A ****

Number of compressible units	11
Number of soil layers	22
Number of different soils	4
Elevation of the ground surface	0.00
Elevation of the top of the compressible soil mass	0.00
Ground water elevation	-220.00
Unit weight of water	62.40
Moist unit wt. of soil btwn grn. surf. & comp. soil mass ...	110.00
Satur. unit wt. of soil btwn grn. surf. & comp. soil mass ..	122.00

**** U N I T B O U N D A R Y D A T A ****

Unit Number	Top Boundary	Bottom Boundary	Drainage Condition
1	1	4	2
2	4	5	2
3	5	8	2
4	8	9	2
5	9	12	2
6	12	13	2
7	13	16	2
8	16	17	2
9	17	20	2
10	20	21	2
11	21	23	2

**** S O I L P R O P E R T Y D A T A ****

Soil Type	Unit Weight	Void Ratio	Cc	Ccs	Cv	Cvs
1	122.00	0.37	0.40	0.04	7000.00	7000.00
2	122.00	0.37	0.39	0.04	7000.00	7000.00
3	122.00	0.37	0.12	0.01	7000.00	7000.00
4	122.00	0.37	0.04	0.00	7000.00	7000.00

**** S U B L A Y E R D A T A ****

Layer	Center Elev	Bottom Elev	Thick	Overbn Pressure	Precons Pressure	Soil Type
1	-25.00	-50.00	50.00	3050.00	3355.00	1
2	-75.00	-100.00	50.00	9150.00	10065.00	1
3	-125.00	-150.00	50.00	15250.00	16775.00	1
4	-175.00	-200.00	50.00	21350.00	23485.00	1
5	-225.00	-250.00	50.00	27138.00	29887.56	1
6	-275.00	-300.00	50.00	30118.00	33523.16	1
7	-325.00	-350.00	50.00	33098.00	37158.76	2
8	-375.00	-400.00	50.00	36078.00	39791.22	2
9	-425.00	-450.00	50.00	39058.00	43337.42	2
10	-475.00	-500.00	50.00	42038.00	46883.62	2
11	-525.00	-550.00	50.00	45018.00	50429.82	2
12	-575.00	-600.00	50.00	47998.00	53976.02	3
13	-625.00	-650.00	50.00	50978.00	57522.22	3
14	-675.00	-700.00	50.00	53958.00	61068.42	3
15	-725.00	-750.00	50.00	56938.00	64614.62	3
16	-775.00	-800.00	50.00	59918.00	68160.82	4
17	-825.00	-850.00	50.00	62898.00	71707.02	4
18	-875.00	-900.00	50.00	65878.00	75253.22	4
19	-925.00	-950.00	50.00	68858.00	78799.42	4
20	-975.00	-1000.00	50.00	71838.00	82345.62	4
21	-1025.00	-1050.00	50.00	74818.00	85891.82	4
22	-1075.00	-1100.00	50.00	77798.00	89438.02	4

**** Number of Loadcases to be Analysed: 9

**** L O A D C A S E : 1 ****
**** C h a n g e i n G r o u n d w a t e r E l e v a t i o n ****

Time intervals: 2.00 4.00

Old water elevation ..... -220.00
New water elevation ..... -220.00

Layer	Change in stress
1	0.00
2	0.00
3	0.00
4	0.00
5	0.00
6	0.00
7	0.00
8	0.00
9	0.00
10	0.00
11	0.00
12	0.00
13	0.00
14	0.00
15	0.00
16	0.00
17	0.00
18	0.00
19	0.00
20	0.00
21	0.00
22	0.00

Layer	Thick.	Void Ratio	Initial Pressure	Precons. Pressure	Final Pressure	Ult. Settl.
1	50.00	0.37	3050.00	3355.00	3050.00	0.000
2	50.00	0.37	9150.00	10065.00	9150.00	0.000
3	50.00	0.37	15250.00	16775.00	15250.00	0.000
4	50.00	0.37	21350.00	23485.00	21350.00	0.000
5	50.00	0.37	27138.00	29887.56	27138.00	0.000
6	50.00	0.37	30118.00	33523.16	30118.00	0.000
7	50.00	0.37	33098.00	37158.76	33098.00	0.000
8	50.00	0.37	36078.00	39791.22	36078.00	0.000
9	50.00	0.37	39058.00	43337.42	39058.00	0.000
10	50.00	0.37	42038.00	46883.62	42038.00	0.000
11	50.00	0.37	45018.00	50429.82	45018.00	0.000
12	50.00	0.37	47998.00	53976.02	47998.00	0.000
13	50.00	0.37	50978.00	57522.22	50978.00	0.000
14	50.00	0.37	53958.00	61068.42	53958.00	0.000
15	50.00	0.37	56938.00	64614.62	56938.00	0.000
16	50.00	0.37	59918.00	68160.82	59918.00	0.000
17	50.00	0.37	62898.00	71707.02	62898.00	0.000
18	50.00	0.37	65878.00	75253.22	65878.00	0.000
19	50.00	0.37	68858.00	78799.42	68858.00	0.000
20	50.00	0.37	71838.00	82345.62	71838.00	0.000
21	50.00	0.37	74818.00	85891.82	74818.00	0.000
22	50.00	0.37	77798.00	89438.02	77798.00	0.000

Ultimate settlement without correction for buoyancy : 0.000

**** Time since load was applied: 2.00 ****

Elevation	Effective Stress	Pore Pressure
-25.00	3050.00	0.00
-75.00	9150.00	0.00
-125.00	15250.00	0.00
-175.00	21350.00	0.00
-225.00	27138.00	0.00
-275.00	30118.00	0.00
-325.00	33098.00	0.00
-375.00	36078.00	0.00
-425.00	39058.00	0.00
-475.00	42038.00	0.00
-525.00	45018.00	0.00
-575.00	47998.00	0.00
-625.00	50978.00	0.00
-675.00	53958.00	0.00
-725.00	56938.00	0.00
-775.00	59918.00	0.00
-825.00	62898.00	0.00
-875.00	65878.00	0.00
-925.00	68858.00	0.00
-975.00	71838.00	0.00
-1025.00	74818.00	0.00
-1075.00	77798.00	0.00

**** Time since load was applied: 4.00 ****

Elevation	Effective Stress	Pore Pressure
-25.00	3050.00	0.00
-75.00	9150.00	0.00
-125.00	15250.00	0.00
-175.00	21350.00	0.00
-225.00	27138.00	0.00
-275.00	30118.00	0.00
-325.00	33098.00	0.00
-375.00	36078.00	0.00
-425.00	39058.00	0.00
-475.00	42038.00	0.00
-525.00	45018.00	0.00
-575.00	47998.00	0.00
-625.00	50978.00	0.00
-675.00	53958.00	0.00
-725.00	56938.00	0.00
-775.00	59918.00	0.00
-825.00	62898.00	0.00
-875.00	65878.00	0.00
-925.00	68858.00	0.00
-975.00	71838.00	0.00
-1025.00	74818.00	0.00
-1075.00	77798.00	0.00

For this load case		Accumulated		Surface
Time	Settlement	Time	Settlement	elevation
2.00	0.000	2.00	0.000	0.00
4.00	0.000	4.00	0.000	0.00

**** L O A D C A S E : 2 ****
**** C h a n g e i n G r o u n d w a t e r E l e v a t i o n ****

Time intervals: 2.00 4.00

Old water elevation ..... -220.00
New water elevation ..... -260.00

Layer	Change in stress
1	0.00
2	0.00
3	0.00
4	0.00
5	312.00
6	2496.00
7	2496.00
8	2496.00
9	2496.00
10	2496.00
11	2496.00
12	2496.00
13	2496.00
14	2496.00
15	2496.00
16	2496.00
17	2496.00
18	2496.00
19	2496.00
20	2496.00
21	2496.00
22	2496.00

Layer	Thick.	Void Ratio	Initial Pressure	Precons. Pressure	Final Pressure	Ult. Settl.
1	50.00	0.37	3050.00	3355.00	3050.00	0.000
2	50.00	0.37	9150.00	10065.00	9150.00	0.000
3	50.00	0.37	15250.00	16775.00	15250.00	0.000
4	50.00	0.37	21350.00	23485.00	21350.00	0.000
5	50.00	0.37	27138.00	29887.56	27450.00	0.007
6	50.00	0.37	30118.00	33523.16	32614.00	0.051
7	50.00	0.37	33098.00	37158.76	35594.00	0.045
8	50.00	0.37	36078.00	39791.22	38574.00	0.041
9	50.00	0.37	39058.00	43337.42	41554.00	0.038
10	50.00	0.37	42038.00	46883.62	44534.00	0.036
11	50.00	0.37	45018.00	50429.82	47514.00	0.033
12	50.00	0.37	47998.00	53976.02	50494.00	0.010
13	50.00	0.37	50978.00	57522.22	53474.00	0.009
14	50.00	0.37	53958.00	61068.42	56454.00	0.009
15	50.00	0.37	56938.00	64614.62	59434.00	0.008
16	50.00	0.37	59918.00	68160.82	62414.00	0.003
17	50.00	0.37	62898.00	71707.02	65394.00	0.002
18	50.00	0.37	65878.00	75253.22	68374.00	0.002
19	50.00	0.37	68858.00	78799.42	71354.00	0.002
20	50.00	0.37	71838.00	82345.62	74334.00	0.002
21	50.00	0.37	74818.00	85891.82	77314.00	0.002

22	50.00	0.37	77798.00	89438.02	80294.00	0.002

Ultimate settlement without correction for buoyancy : 0.303

**** Time since load was applied: 2.00 ****

Elevation	Effective Stress	Pore Pressure
-25.30	3050.00	0.00
-75.30	9150.00	0.00
-125.30	15250.00	0.00
-175.30	21428.00	0.00
-225.29	27914.96	3.05
-275.26	32061.73	6.27
-325.22	35590.78	3.22
-375.18	38574.00	0.00
-425.14	41550.13	3.87
-475.10	44526.13	7.88
-525.07	47509.98	4.01
-575.05	50494.00	0.00
-625.04	53470.07	3.92
-675.03	56446.05	7.95
-725.02	59429.96	4.03
-775.01	62414.00	0.00
-825.01	65390.05	3.95
-875.01	68366.03	7.98
-925.01	71349.96	4.04
-975.01	74334.00	0.00
-1025.00	77313.99	0.00
-1075.00	80293.99	0.00

**** Time since load was applied: 4.00 ****

Elevation	Effective Stress	Pore Pressure
-25.31	3050.00	0.00
-75.31	9150.00	0.00
-125.31	15250.00	0.00
-175.30	21428.00	0.00
-225.29	27917.99	0.01
-275.27	32067.99	0.01
-325.22	35593.99	0.01
-375.18	38574.00	0.00
-425.14	41553.99	0.01
-475.10	44533.99	0.01
-525.07	47513.98	0.01
-575.05	50494.00	0.00
-625.04	53473.98	0.01
-675.03	56453.99	0.01
-725.02	59434.00	0.01
-775.01	62414.00	0.00
-825.01	65394.00	0.01
-875.01	68374.00	0.01
-925.01	71353.98	0.01
-975.01	74334.00	0.00
-1025.00	77314.00	0.00
-1075.00	80294.00	0.00

For this load case		Accumulated		Surface
Time	Settlement	Time	Settlement	elevation
2.00	0.305	6.00	0.305	-0.30
4.00	0.305	8.00	0.305	-0.31

**** L O A D C A S E : 3 ****
**** C h a n g e i n G r o u n d w a t e r E l e v a t i o n ****

Time intervals: 2.00 4.00

Old water elevation ..... -260.00
New water elevation ..... -300.00

Layer	Change in stress
1	0.00
2	0.00
3	0.00
4	0.00
5	0.00
6	952.54
7	2496.00
8	2496.00
9	2496.00
10	2496.00
11	2496.00

12	2496.00
13	2496.00
14	2496.00
15	2496.00
16	2496.00
17	2496.01
18	2496.00
19	2496.00
20	2496.00
21	2496.00
22	2496.00

Layer	Thick.	Void Ratio	Initial Pressure	Precons. Pressure	Final Pressure	Ult. Settl.
1	50.00	0.37	3050.00	3355.00	3050.00	0.000
2	50.00	0.37	9150.00	10065.00	9150.00	0.000
3	50.00	0.37	15250.00	16775.00	15250.00	0.000
4	50.00	0.37	21428.00	23485.00	21428.00	0.000
5	49.98	0.37	27917.99	29887.56	27918.00	0.000
6	49.96	0.37	32067.99	33523.16	33020.54	0.019
7	49.96	0.37	35593.99	37158.76	38089.99	0.180
8	49.96	0.37	38574.00	39791.22	41070.00	0.215
9	49.96	0.37	41553.99	43337.42	44050.00	0.127
10	49.96	0.37	44533.99	46883.62	47030.01	0.051
11	49.97	0.37	47513.98	50429.82	50009.99	0.032
12	49.99	0.37	50494.00	53976.02	52990.00	0.009
13	49.99	0.37	53473.98	57522.22	55969.99	0.009
14	49.99	0.37	56453.99	61068.42	58950.00	0.008
15	49.99	0.37	59434.00	64614.62	61930.00	0.008
16	50.00	0.37	62414.00	68160.82	64910.00	0.002
17	50.00	0.37	65394.00	71707.02	67890.02	0.002
18	50.00	0.37	68374.00	75253.22	70870.02	0.002
19	50.00	0.37	71353.98	78799.42	73849.99	0.002
20	50.00	0.37	74334.00	82345.62	76830.00	0.002
21	50.00	0.37	77314.00	85891.82	79810.00	0.002
22	50.00	0.37	80294.00	89438.02	82790.00	0.002

Ultimate settlement without correction for buoyancy : 0.672

**** Time since load was applied: 2.00 ****

Elevation	Effective Stress	Pore Pressure
-25.92	3050.00	0.00
-75.92	9150.00	0.00
-125.92	15250.00	0.00
-175.92	21428.00	0.00
-225.91	28154.58	1.61
-275.86	33165.01	3.33
-325.75	37702.43	1.72
-375.54	41070.00	0.00
-425.33	44046.18	3.83
-475.21	47022.22	7.79
-525.13	50006.04	3.96
-575.09	52990.00	0.00
-625.07	55966.08	3.92
-675.06	58942.05	7.94
-725.04	61925.98	4.02
-775.03	64910.01	0.00
-825.02	67886.07	3.95
-875.02	70862.03	7.98
-925.01	73845.96	4.03
-975.01	76830.00	0.00
-1025.01	79809.98	0.00
-1075.00	82789.98	0.00

**** Time since load was applied: 4.00 ****

Elevation	Effective Stress	Pore Pressure
-25.92	3050.00	0.00
-75.92	9150.00	0.00
-125.92	15250.00	0.00
-175.92	21428.00	0.00
-225.91	28156.18	0.00
-275.87	33168.33	0.01
-325.75	37704.14	0.00
-375.55	41070.00	0.00
-425.34	44049.99	0.01
-475.21	47029.99	0.01
-525.13	50009.99	0.01
-575.09	52990.00	0.00
-625.07	55969.99	0.01
-675.06	58949.98	0.01
-725.04	61929.99	0.01
-775.03	64910.01	0.00
-825.02	67890.01	0.01
-875.02	70870.00	0.01

-925.01	73849.98	0.01
-975.01	76830.00	0.00
-1025.01	79809.99	0.00
-1075.00	82789.99	0.00

For this load case Time	Settlement	Accumulated Time	Settlement	Surface elevation
2.00	0.615	10.00	0.921	-0.92
4.00	0.617	12.00	0.923	-0.92

**** L O A D C A S E : 4 ****
**** C h a n g e i n G r o u n d w a t e r E l e v a t i o n ****

Time intervals: 2.00 4.00

Old water elevation ..... -300.00
New water elevation ..... -331.00

Layer	Change in stress
1	0.00
2	0.00
3	0.00
4	0.00
5	0.00
6	0.00
7	1607.11
8	1934.40
9	1934.40
10	1934.40
11	1934.40
12	1934.40
13	1934.40
14	1934.40
15	1934.40
16	1934.40
17	1934.40
18	1934.40
19	1934.40
20	1934.40
21	1934.40
22	1934.40

Layer	Thick.	Void Ratio	Initial Pressure	Precons. Pressure	Final Pressure	Ult. Settl.
1	50.00	0.37	3050.00	3355.00	3050.00	0.000
2	50.00	0.37	9150.00	10065.00	9150.00	0.000
3	50.00	0.37	15250.00	16775.00	15250.00	0.000
4	50.00	0.37	21428.00	23485.00	21428.00	0.000
5	49.98	0.37	28156.18	29887.56	28156.19	0.000
6	49.94	0.37	33168.33	33523.16	33168.34	0.000
7	49.84	0.36	37704.14	37704.14	39311.25	0.258
8	49.74	0.36	41070.00	41070.00	43004.41	0.285
9	49.83	0.36	44049.99	44049.99	45984.40	0.266
10	49.91	0.37	47029.99	47029.99	48964.40	0.249
11	49.93	0.37	50009.99	50429.82	51944.39	0.188
12	49.98	0.37	52990.00	53976.02	54924.40	0.037
13	49.98	0.37	55969.99	57522.22	57904.40	0.018
14	49.98	0.37	58949.98	61068.42	60884.40	0.006
15	49.98	0.37	61929.99	64614.62	63864.40	0.006
16	49.99	0.37	64910.01	68160.82	66844.41	0.002
17	50.00	0.37	67890.01	71707.02	69824.41	0.002
18	50.00	0.37	70870.00	75253.22	72804.41	0.002
19	50.00	0.37	73849.98	78799.42	75784.38	0.002
20	50.00	0.37	76830.00	82345.62	78764.40	0.002
21	50.00	0.37	79809.99	85891.82	81744.39	0.002
22	50.00	0.37	82789.99	89438.02	84724.39	0.001

Ultimate settlement without correction for buoyancy : 1.324

**** Time since load was applied: 2.00 ****

Elevation	Effective Stress	Pore Pressure
-27.19	3050.00	0.00
-77.19	9150.00	0.00
-127.19	15250.00	0.00
-177.19	21428.00	0.00
-227.18	28156.15	0.03
-277.13	33570.47	0.05
-326.90	38991.77	0.02
-376.45	42922.66	0.00
-425.97	45966.56	17.84
-475.59	48922.00	42.39

-525.30	51919.84	24.56
-575.15	54924.41	0.00
-625.11	57901.37	3.03
-675.08	60878.25	6.15
-725.05	63861.29	3.11
-775.04	66844.41	0.00
-825.03	69821.36	3.06
-875.03	72798.23	6.18
-925.02	75781.25	3.12
-975.01	78764.40	0.00
-1025.01	81744.38	0.00
-1075.00	84724.38	0.00

**** Time since load was applied: 4.00 ****

Elevation	Effective Stress	Pore Pressure
-27.20	3050.00	0.00
-77.20	9150.00	0.00
-127.20	15250.00	0.00
-177.20	21428.00	0.00
-227.19	28156.19	0.00
-277.14	33570.52	0.00
-326.91	38991.78	0.00
-376.46	42922.66	0.00
-425.98	45984.07	0.32
-475.60	48963.63	0.76
-525.31	51943.95	0.44
-575.15	54924.41	0.00
-625.11	57904.39	0.01
-675.08	60884.38	0.01
-725.05	63864.39	0.01
-775.04	66844.41	0.00
-825.03	69824.41	0.01
-875.03	72804.41	0.01
-925.02	75784.37	0.01
-975.01	78764.40	0.00
-1025.01	81744.38	0.00
-1075.00	84724.38	0.00

For this load case		Accumulated		Surface
Time	Settlement	Time	Settlement	elevation
2.00	1.267	14.00	2.190	-2.19
4.00	1.278	16.00	2.200	-2.20

**** L O A D C A S E : 5 ****
**** C h a n g e i n G r o u n d w a t e r E l e v a t i o n ****

Time intervals: 2.00 4.00

Old water elevation ..... -331.00
New water elevation ..... -346.00

Layer	Change in stress
1	0.00
2	0.00
3	0.00
4	0.00
5	0.00
6	0.00
7	0.00
8	936.00
9	936.00
10	936.00
11	936.00
12	936.00
13	936.00
14	936.00
15	936.00
16	936.00
17	936.00
18	936.00
19	936.00
20	936.00
21	936.00
22	936.00

Layer	Thick.	Void Ratio	Initial Pressure	Precons. Pressure	Final Pressure	Ult. Settl.
1	50.00	0.37	3050.00	3355.00	3050.00	0.000
2	50.00	0.37	9150.00	10065.00	9150.00	0.000
3	50.00	0.37	15250.00	16775.00	15250.00	0.000
4	50.00	0.37	21428.00	23485.00	21428.00	0.000
5	49.98	0.37	28156.19	29887.56	28156.19	0.000

6	49.92	0.37	33570.52	33570.52	33570.52	0.000
7	49.63	0.36	38991.78	38991.78	38991.78	0.000
8	49.47	0.35	42922.66	42922.66	43858.66	0.133
9	49.57	0.36	45984.07	45984.07	46920.39	0.125
10	49.66	0.36	48963.63	48963.63	49900.39	0.117
11	49.75	0.36	51943.95	51943.95	52880.39	0.111
12	49.94	0.37	54924.41	54924.41	55860.41	0.032
13	49.96	0.37	57904.39	57904.39	58840.39	0.031
14	49.98	0.37	60884.38	61068.42	61820.39	0.024
15	49.98	0.37	63864.39	64614.62	64800.40	0.008
16	49.99	0.37	66844.41	68160.82	67780.41	0.001
17	49.99	0.37	69824.41	71707.02	70760.41	0.001
18	49.99	0.37	72804.41	75253.22	73740.41	0.001
19	49.99	0.37	75784.37	78799.42	76720.38	0.001
20	49.99	0.37	78764.40	82345.62	79700.40	0.001
21	49.99	0.37	81744.38	85891.82	82680.38	0.001
22	49.99	0.37	84724.38	89438.02	85660.38	0.001

Ultimate settlement without correction for buoyancy : 0.586

**** Time since load was applied: 2.00 ****

Elevation	Effective Stress	Pore Pressure
-27.79	3050.00	0.00
-77.79	9150.00	0.00
-127.79	15250.00	0.00
-177.79	21428.00	0.00
-227.78	28156.19	0.00
-277.73	33570.52	0.00
-327.48	39226.16	0.00
-376.97	43625.12	0.00
-426.37	46919.10	1.32
-475.87	49897.52	2.68
-525.46	52879.00	1.36
-575.23	55860.52	0.00
-625.16	58840.37	0.03
-675.10	61820.30	0.09
-725.06	64800.33	0.06
-775.04	67780.41	0.00
-825.04	70758.94	1.48
-875.03	73737.41	2.99
-925.02	76718.87	1.51
-975.02	79700.40	0.00
-1025.01	82680.39	0.00
-1075.00	85660.39	0.00

**** Time since load was applied: 4.00 ****

Elevation	Effective Stress	Pore Pressure
-27.79	3050.00	0.00
-77.79	9150.00	0.00
-127.79	15250.00	0.00
-177.79	21428.00	0.00
-227.78	28156.19	0.00
-277.73	33570.52	0.00
-327.48	39226.16	0.00
-376.97	43625.12	0.00
-426.37	46920.41	0.00
-475.87	49900.20	0.00
-525.46	52880.36	0.00
-575.23	55860.52	0.00
-625.16	58840.39	0.00
-675.10	61820.39	0.00
-725.06	64800.39	0.00
-775.04	67780.41	0.00
-825.04	70760.41	0.00
-875.03	73740.40	0.01
-925.02	76720.38	0.00
-975.02	79700.40	0.00
-1025.01	82680.39	0.00
-1075.00	85660.39	0.00

For this load case		Accumulated		Surface
Time	Settlement	Time	Settlement	elevation
2.00	0.589	18.00	2.789	-2.79
4.00	0.590	20.00	2.790	-2.79

**** L O A D C A S E : 6 ****
**** C h a n g e i n G r o u n d w a t e r E l e v a t i o n ****

Time intervals: 2.00 4.00

Old water elevation ..... -346.00
New water elevation ..... -366.00

Layer	Change in stress
1	0.00
2	0.00
3	0.00
4	0.00
5	0.00
6	0.00
7	0.00
8	1248.00
9	1248.00
10	1248.00
11	1248.00
12	1248.00
13	1248.00
14	1248.00
15	1248.00
16	1248.00
17	1248.00
18	1248.00
19	1248.00
20	1248.00
21	1248.00
22	1248.00

Layer	Thick.	Void Ratio	Initial Pressure	Precons. Pressure	Final Pressure	Ult. Settl.
1	50.00	0.37	3050.00	3355.00	3050.00	0.000
2	50.00	0.37	9150.00	10065.00	9150.00	0.000
3	50.00	0.37	15250.00	16775.00	15250.00	0.000
4	50.00	0.37	21428.00	23485.00	21428.00	0.000
5	49.98	0.37	28156.19	29887.56	28156.19	0.000
6	49.92	0.37	33570.52	33570.52	33570.52	0.000
7	49.59	0.36	39226.16	39226.16	39226.16	0.000
8	49.37	0.35	43625.12	43625.12	44873.12	0.174
9	49.44	0.35	46920.41	46920.41	48168.42	0.162
10	49.55	0.36	49900.20	49900.20	51148.20	0.153
11	49.64	0.36	52880.36	52880.36	54128.37	0.144
12	49.91	0.37	55860.52	55860.52	57108.52	0.042
13	49.93	0.37	58840.39	58840.39	60088.39	0.040
14	49.95	0.37	61820.39	61820.39	63068.39	0.038
15	49.97	0.37	64800.39	64800.39	66048.39	0.036
16	49.99	0.37	67780.41	68160.82	69028.41	0.008
17	49.99	0.37	70760.41	71707.02	72008.41	0.004
18	49.99	0.37	73740.40	75253.22	74988.41	0.001
19	49.99	0.37	76720.38	78799.42	77968.38	0.001
20	49.99	0.37	79700.40	82345.62	80948.40	0.001
21	49.99	0.37	82680.39	85891.82	83928.39	0.001
22	49.99	0.37	85660.39	89438.02	86908.39	0.001

Ultimate settlement without correction for buoyancy : 0.807

**** Time since load was applied: 2.00 ****

Elevation	Effective Stress	Pore Pressure
-28.60	3050.00	0.00
-78.60	9150.00	0.00
-128.60	15250.00	0.00
-178.60	21428.00	0.00
-228.59	28156.19	0.00
-278.54	33570.52	0.00
-328.27	39538.86	0.00
-377.66	44561.82	0.00
-426.92	48166.72	1.69
-476.26	51144.75	3.44
-525.71	54126.61	1.75
-575.39	57108.52	0.00
-625.27	60086.46	1.93
-675.17	63064.47	3.91
-725.10	66046.42	1.98
-775.06	69028.41	0.00
-825.04	72006.44	1.97
-875.03	74984.41	3.99
-925.03	77966.36	2.01
-975.02	80948.40	0.00
-1025.01	83928.39	0.00
-1075.00	86908.39	0.00

**** Time since load was applied: 4.00 ****

Elevation	Effective Stress	Pore Pressure
-28.60	3050.00	0.00
-78.60	9150.00	0.00

-128.60	15250.00	0.00
-178.60	21428.00	0.00
-228.59	28156.19	0.00
-278.54	33570.52	0.00
-328.27	39538.86	0.00
-377.66	44561.82	0.00
-426.92	48168.41	0.00
-476.26	51148.19	0.00
-525.71	54128.36	0.00
-575.39	57108.52	0.00
-625.27	60088.39	0.00
-675.17	63068.38	0.01
-725.10	66048.40	0.00
-775.06	69028.41	0.00
-825.04	72008.40	0.00
-875.03	74988.39	0.01
-925.03	77968.37	0.00
-975.02	80948.40	0.00
-1025.01	83928.39	0.00
-1075.00	86908.39	0.00

For this load case		Accumulated		Surface
Time	Settlement	Time	Settlement	elevation
2.00	0.812	22.00	3.602	-3.60
4.00	0.813	24.00	3.603	-3.60

**** L O A D C A S E : 7 ****
**** C h a n g e i n G r o u n d w a t e r E l e v a t i o n ****

Time intervals: 2.00 4.00

Old water elevation ..... -366.00
New water elevation ..... -400.00

Layer	Change in stress
1	0.00
2	0.00
3	0.00
4	0.00
5	0.00
6	0.00
7	0.00
8	727.86
9	2121.60
10	2121.60
11	2121.60
12	2121.60
13	2121.60
14	2121.60
15	2121.59
16	2121.59
17	2121.59
18	2121.59
19	2121.59
20	2121.59
21	2121.59
22	2121.59

Layer	Thick.	Void Ratio	Initial Pressure	Precons. Pressure	Final Pressure	Ult. Settl.
1	50.00	0.37	3050.00	3355.00	3050.00	0.000
2	50.00	0.37	9150.00	10065.00	9150.00	0.000
3	50.00	0.37	15250.00	16775.00	15250.00	0.000
4	50.00	0.37	21428.00	23485.00	21428.00	0.000
5	49.98	0.37	28156.19	29887.56	28156.19	0.000
6	49.92	0.37	33570.52	33570.52	33570.52	0.000
7	49.54	0.36	39538.86	39538.86	39538.86	0.000
8	49.24	0.35	44561.82	44561.82	45289.68	0.100
9	49.28	0.35	48168.41	48168.41	50290.01	0.267
10	49.39	0.35	51148.19	51148.19	53269.79	0.251
11	49.49	0.36	54128.36	54128.36	56249.96	0.238
12	49.87	0.37	57108.52	57108.52	59230.12	0.069
13	49.89	0.37	60088.39	60088.39	62209.99	0.066
14	49.92	0.37	63068.38	63068.38	65189.98	0.063
15	49.93	0.37	66048.40	66048.40	68169.99	0.060
16	49.98	0.37	69028.41	69028.41	71150.00	0.019
17	49.99	0.37	72008.40	72008.40	74129.99	0.018
18	49.99	0.37	74988.39	75253.22	77109.99	0.016
19	49.99	0.37	77968.37	78799.42	80089.96	0.011
20	49.99	0.37	80948.40	82345.62	83069.99	0.007
21	49.99	0.37	83928.39	85891.82	86049.98	0.003
22	49.99	0.37	86908.39	89438.02	89029.98	0.002

Ultimate settlement without correction for buoyancy : 1.190

**** Time since load was applied: 2.00 ****

Elevation	Effective Stress	Pore Pressure
-29.80	3050.00	0.00
-79.80	9150.00	0.00
-129.80	15250.00	0.00
-179.80	21428.00	0.00
-229.79	28156.19	0.00
-279.74	33570.52	0.00
-329.45	39721.39	0.00
-378.77	45456.56	0.00
-427.86	49938.70	2.72
-476.96	53264.26	5.53
-526.16	56247.15	2.81
-575.69	59230.12	0.00
-625.50	62206.75	3.24
-675.34	65183.42	6.56
-725.20	68166.68	3.32
-775.12	71150.00	0.00
-825.09	74129.94	0.06
-875.06	77109.80	0.20
-925.04	80089.81	0.14
-975.03	83069.99	0.00
-1025.01	86049.98	0.00
-1075.00	89029.98	0.00

**** Time since load was applied: 4.00 ****

Elevation	Effective Stress	Pore Pressure
-29.80	3050.00	0.00
-79.80	9150.00	0.00
-129.80	15250.00	0.00
-179.80	21428.00	0.00
-229.79	28156.19	0.00
-279.74	33570.52	0.00
-329.46	39721.39	0.00
-378.77	45456.56	0.00
-427.86	49941.42	0.00
-476.96	53269.78	0.01
-526.16	56249.96	0.00
-575.69	59230.12	0.00
-625.50	62209.99	0.01
-675.34	65189.96	0.01
-725.20	68170.00	0.01
-775.12	71150.00	0.00
-825.09	74129.99	0.00
-875.06	77110.00	0.00
-925.04	80089.95	0.00
-975.03	83069.99	0.00
-1025.01	86049.98	0.00
-1075.00	89029.98	0.00

For this load case		Accumulated		Surface
Time	Settlement	Time	Settlement	elevation
2.00	1.196	26.00	4.800	-4.80
4.00	1.198	28.00	4.801	-4.80

**** L O A D C A S E : 8 ****
**** C h a n g e i n G r o u n d w a t e r E l e v a t i o n ****

Time intervals: 2.00 4.00

Old water elevation ..... -400.00
New water elevation ..... -566.00

Layer	Change in stress
1	0.00
2	0.00
3	0.00
4	0.00
5	0.00
6	0.00
7	0.00
8	0.00
9	1738.44
10	4802.30
11	7872.28
12	10358.40
13	10358.40
14	10358.40
15	10358.40
16	10358.40

17	10358.40
18	10358.40
19	10358.40
20	10358.40
21	10358.40
22	10358.40

Layer	Thick.	Void Ratio	Initial Pressure	Precons. Pressure	Final Pressure	Ult. Settl.
1	50.00	0.37	3050.00	3355.00	3050.00	0.000
2	50.00	0.37	9150.00	10065.00	9150.00	0.000
3	50.00	0.37	15250.00	16775.00	15250.00	0.000
4	50.00	0.37	21428.00	23485.00	21428.00	0.000
5	49.98	0.37	28156.19	29887.56	28156.19	0.000
6	49.92	0.37	33570.52	33570.52	33570.52	0.000
7	49.52	0.36	39721.39	39721.39	39721.39	0.000
8	49.12	0.34	45456.56	45456.56	45456.56	0.000
9	49.06	0.34	49941.42	49941.42	51679.86	0.212
10	49.14	0.35	53269.78	53269.78	58072.09	0.534
11	49.25	0.35	56249.96	56249.96	64122.25	0.810
12	49.80	0.36	59230.12	59230.12	69588.52	0.307
13	49.83	0.36	62209.99	62209.99	72568.39	0.293
14	49.85	0.36	65189.96	65189.96	75548.38	0.281
15	49.87	0.37	68170.00	68170.00	78528.41	0.269
16	49.96	0.37	71150.00	71150.00	81508.40	0.086
17	49.97	0.37	74129.99	74129.99	84488.39	0.083
18	49.98	0.37	77110.00	77110.00	87468.40	0.080
19	49.98	0.37	80089.95	80089.95	90448.35	0.077
20	49.99	0.37	83069.99	83069.99	93428.39	0.075
21	49.99	0.37	86049.98	86049.98	96408.38	0.072
22	49.99	0.37	89029.98	89438.02	99388.38	0.067

Ultimate settlement without correction for buoyancy : 3.246

**** Time since load was applied: 2.00 ****

Elevation	Effective Stress	Pore Pressure
-33.11	3050.00	0.00
-83.11	9150.00	0.00
-133.11	15250.00	0.00
-183.11	21428.00	0.00
-233.10	28156.19	0.00
-283.05	33570.52	0.00
-332.76	39721.39	0.00
-382.05	45891.43	0.00
-430.98	52005.44	5.39
-479.69	58061.16	10.93
-528.23	63966.45	5.54
-577.21	68963.55	0.00
-626.74	72553.48	14.92
-676.29	75518.16	30.20
-725.88	78513.12	15.28
-775.62	81508.40	0.00
-825.50	84472.32	16.07
-875.39	87435.95	32.47
-925.29	90431.97	16.39
-975.20	93428.39	0.00
-1025.12	96408.38	0.02
-1075.04	99388.38	0.02

**** Time since load was applied: 4.00 ****

Elevation	Effective Stress	Pore Pressure
-33.11	3050.00	0.00
-83.11	9150.00	0.00
-133.11	15250.00	0.00
-183.11	21428.00	0.00
-233.10	28156.19	0.00
-283.05	33570.52	0.00
-332.77	39721.39	0.00
-382.06	45891.43	0.00
-430.99	52010.82	0.01
-479.70	58072.08	0.01
-528.23	63971.98	0.01
-577.21	68963.55	0.00
-626.74	72568.38	0.02
-676.29	75548.32	0.05
-725.88	78528.38	0.02
-775.62	81508.40	0.00
-825.50	84488.37	0.03
-875.39	87468.36	0.06
-925.29	90448.33	0.03
-975.20	93428.39	0.00
-1025.12	96408.39	0.00
-1075.04	99388.39	0.00

For this load case Time	Settlement	Accumulated Time	Settlement	Surface elevation
2.00	3.308	30.00	8.110	-8.11
4.00	3.313	32.00	8.114	-8.11

**** L O A D C A S E : 9 ****
**** C h a n g e i n G r o u n d w a t e r E l e v a t i o n ****

Time intervals: 2.00

Old water elevation ..... -566.00
New water elevation ..... -595.00

Layer	Change in stress
1	0.00
2	0.00
3	0.00
4	0.00
5	0.00
6	0.00
7	0.00
8	0.00
9	0.00
10	0.00
11	0.00
12	699.76
13	1809.60
14	1809.60
15	1809.60
16	1809.60
17	1809.60
18	1809.60
19	1809.60
20	1809.60
21	1809.60
22	1809.60

Layer	Thick.	Void Ratio	Initial Pressure	Precons. Pressure	Final Pressure	Ult. Settl.
1	50.00	0.37	3050.00	3355.00	3050.00	0.000
2	50.00	0.37	9150.00	10065.00	9150.00	0.000
3	50.00	0.37	15250.00	16775.00	15250.00	0.000
4	50.00	0.37	21428.00	23485.00	21428.00	0.000
5	49.98	0.37	28156.19	29887.56	28156.19	0.000
6	49.92	0.37	33570.52	33570.52	33570.52	0.000
7	49.52	0.36	39721.39	39721.39	39721.39	0.000
8	49.06	0.34	45891.43	45891.43	45891.43	0.000
9	48.81	0.34	52010.82	52010.82	52010.82	0.000
10	48.61	0.33	58072.08	58072.08	58072.09	0.000
11	48.46	0.33	63971.98	63971.98	63971.99	0.000
12	49.51	0.36	68963.55	68963.55	69663.31	0.019
13	49.53	0.36	72568.38	72568.38	74378.00	0.047
14	49.57	0.36	75548.32	75548.32	77357.97	0.045
15	49.60	0.36	78528.38	78528.38	80338.00	0.043
16	49.88	0.37	81508.40	81508.40	83318.00	0.014
17	49.89	0.37	84488.37	84488.37	86298.00	0.013
18	49.90	0.37	87468.36	87468.36	89278.02	0.013
19	49.90	0.37	90448.33	90448.33	92257.96	0.013
20	49.91	0.37	93428.39	93428.39	95237.99	0.012
21	49.92	0.37	96408.39	96408.39	98217.99	0.012
22	49.92	0.37	99388.39	99388.39	101197.99	0.011

Ultimate settlement without correction for buoyancy : 0.243

**** Time since load was applied: 2.00 ****

Elevation	Effective Stress	Pore Pressure
-33.37	3050.00	0.00
-83.37	9150.00	0.00
-133.37	15250.00	0.00
-183.37	21428.00	0.00
-233.35	28156.19	0.00
-283.30	33570.52	0.00
-333.02	39721.39	0.00
-382.31	45891.43	0.00
-431.24	52010.82	0.00
-479.95	58072.09	0.00
-528.48	64145.04	0.00
-577.44	69763.90	0.00
-626.93	74097.92	2.56
-676.44	77352.79	5.17
-725.99	80335.38	2.61

-775.70	83318.02	0.00
-825.57	86295.21	2.80
-875.45	89272.38	5.64
-925.34	92255.12	2.85
-975.23	95238.00	0.00
-1025.13	98218.00	0.00
-1075.04	101198.00	0.00

For this load case		Accumulated		Surface
Time	Settlement	Time	Settlement	elevation
2.00	0.255	34.00	8.369	-8.37

**** Complete Time Settlement Record ****

Time	Settlement	
2.00	0.000	220
4.00	0.000	
6.00	0.305	260
8.00	0.305	
10.00	0.921	300
12.00	0.923	
14.00	2.190	331
16.00	2.200	
18.00	2.789	346
20.00	2.790	
22.00	3.602	366
24.00	3.603	
26.00	4.800	400
28.00	4.801	
30.00	8.110	566
32.00	8.114	
34.00	8.369	595

same as previous

← reason for this run

little different but ok!!

LOWER BOUND

220
260
300
331
346
366
466
500
595

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==========================================================
CONSOL - 1d Consolidation Analysis Program
         Version 3.0
         Virginia Tech, Department of Civil Engineering
==========================================================
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Date: 08/10/2004
Input file : C:\Program Files\Consol\4 Cc & Cr.cns
Output file: C:\Program Files\Consol\4 Cc & Cr.out
Plot file : C:\Program Files\Consol\4 Cc & Cr.dat

Title : White Tanks FRS No. 3 Remediation

**** C O N T R O L D A T A ****

Number of compressible units	11
Number of soil layers	22
Number of different soils	4
Elevation of the ground surface	0.00
Elevation of the top of the compressible soil mass	0.00
Ground water elevation	-220.00
Unit weight of water	62.40
Moist unit wt. of soil btwn grn. surf. & comp. soil mass ...	110.00
Satur. unit wt. of soil btwn grn. surf. & comp. soil mass ..	122.00

**** U N I T B O U N D A R Y D A T A ****

Unit Number	Top Boundary	Bottom Boundary	Drainage Condition
1	1	4	2
2	4	5	2
3	5	8	2
4	8	9	2
5	9	12	2
6	12	13	2
7	13	16	2
8	16	17	2
9	17	20	2
10	20	21	2
11	21	23	2

**** S O I L P R O P E R T Y D A T A ****

Soil Type	Unit Weight	Void Ratio	Cc	Ccs	Cv	Cvs
1	122.00	0.37	0.40	0.04	7000.00	7000.00
2	122.00	0.37	0.39	0.04	7000.00	7000.00
3	122.00	0.37	0.12	0.01	7000.00	7000.00
4	122.00	0.37	0.04	0.00	7000.00	7000.00

**** S U B L A Y E R D A T A ****

Layer	Center Elev	Bottom Elev	Thick	Overbn Pressure	Precons Pressure	Soil Type
1	-25.00	-50.00	50.00	3050.00	3355.00	1
2	-75.00	-100.00	50.00	9150.00	10065.00	1
3	-125.00	-150.00	50.00	15250.00	16775.00	1
4	-175.00	-200.00	50.00	21350.00	23485.00	1
5	-225.00	-250.00	50.00	27138.00	29887.56	1
6	-275.00	-300.00	50.00	30118.00	33523.16	1
7	-325.00	-350.00	50.00	33098.00	37158.76	2
8	-375.00	-400.00	50.00	36078.00	39791.22	2
9	-425.00	-450.00	50.00	39058.00	43337.42	2
10	-475.00	-500.00	50.00	42038.00	46883.62	2
11	-525.00	-550.00	50.00	45018.00	50429.82	2
12	-575.00	-600.00	50.00	47998.00	53976.02	3
13	-625.00	-650.00	50.00	50978.00	57522.22	3
14	-675.00	-700.00	50.00	53958.00	61068.42	3
15	-725.00	-750.00	50.00	56938.00	64614.62	3
16	-775.00	-800.00	50.00	59918.00	68160.82	4
17	-825.00	-850.00	50.00	62898.00	71707.02	4
18	-875.00	-900.00	50.00	65878.00	75253.22	4
19	-925.00	-950.00	50.00	68858.00	78799.42	4
20	-975.00	-1000.00	50.00	71838.00	82345.62	4
21	-1025.00	-1050.00	50.00	74818.00	85891.82	4
22	-1075.00	-1100.00	50.00	77798.00	89438.02	4

**** Number of Loadcases to be Analysed: 9

**** L O A D C A S E : 1 ****
**** C h a n g e i n G r o u n d w a t e r E l e v a t i o n ****

Time intervals: 2.00 4.00

Old water elevation ..... -220.00
New water elevation ..... -220.00

Layer	Change in stress
1	0.00
2	0.00
3	0.00
4	0.00
5	0.00
6	0.00
7	0.00
8	0.00
9	0.00
10	0.00
11	0.00
12	0.00
13	0.00
14	0.00
15	0.00
16	0.00
17	0.00
18	0.00
19	0.00
20	0.00
21	0.00
22	0.00

Layer	Thick.	Void Ratio	Initial Pressure	Precons. Pressure	Final Pressure	Ult. Settl.
1	50.00	0.37	3050.00	3355.00	3050.00	0.000
2	50.00	0.37	9150.00	10065.00	9150.00	0.000
3	50.00	0.37	15250.00	16775.00	15250.00	0.000
4	50.00	0.37	21350.00	23485.00	21350.00	0.000
5	50.00	0.37	27138.00	29887.56	27138.00	0.000
6	50.00	0.37	30118.00	33523.16	30118.00	0.000
7	50.00	0.37	33098.00	37158.76	33098.00	0.000
8	50.00	0.37	36078.00	39791.22	36078.00	0.000
9	50.00	0.37	39058.00	43337.42	39058.00	0.000
10	50.00	0.37	42038.00	46883.62	42038.00	0.000
11	50.00	0.37	45018.00	50429.82	45018.00	0.000
12	50.00	0.37	47998.00	53976.02	47998.00	0.000
13	50.00	0.37	50978.00	57522.22	50978.00	0.000
14	50.00	0.37	53958.00	61068.42	53958.00	0.000
15	50.00	0.37	56938.00	64614.62	56938.00	0.000
16	50.00	0.37	59918.00	68160.82	59918.00	0.000
17	50.00	0.37	62898.00	71707.02	62898.00	0.000
18	50.00	0.37	65878.00	75253.22	65878.00	0.000
19	50.00	0.37	68858.00	78799.42	68858.00	0.000
20	50.00	0.37	71838.00	82345.62	71838.00	0.000
21	50.00	0.37	74818.00	85891.82	74818.00	0.000
22	50.00	0.37	77798.00	89438.02	77798.00	0.000

Ultimate settlement without correction for buoyancy : 0.000

**** Time since load was applied: 2.00 ****

Elevation	Effective Stress	Pore Pressure
-25.00	3050.00	0.00
-75.00	9150.00	0.00
-125.00	15250.00	0.00
-175.00	21350.00	0.00
-225.00	27138.00	0.00
-275.00	30118.00	0.00
-325.00	33098.00	0.00
-375.00	36078.00	0.00
-425.00	39058.00	0.00
-475.00	42038.00	0.00
-525.00	45018.00	0.00
-575.00	47998.00	0.00
-625.00	50978.00	0.00
-675.00	53958.00	0.00
-725.00	56938.00	0.00
-775.00	59918.00	0.00
-825.00	62898.00	0.00
-875.00	65878.00	0.00
-925.00	68858.00	0.00
-975.00	71838.00	0.00
-1025.00	74818.00	0.00
-1075.00	77798.00	0.00

**** Time since load was applied: 4.00 ****

Elevation	Effective Stress	Pore Pressure
-25.00	3050.00	0.00
-75.00	9150.00	0.00
-125.00	15250.00	0.00
-175.00	21350.00	0.00
-225.00	27138.00	0.00
-275.00	30118.00	0.00
-325.00	33098.00	0.00
-375.00	36078.00	0.00
-425.00	39058.00	0.00
-475.00	42038.00	0.00
-525.00	45018.00	0.00
-575.00	47998.00	0.00
-625.00	50978.00	0.00
-675.00	53958.00	0.00
-725.00	56938.00	0.00
-775.00	59918.00	0.00
-825.00	62898.00	0.00
-875.00	65878.00	0.00
-925.00	68858.00	0.00
-975.00	71838.00	0.00
-1025.00	74818.00	0.00
-1075.00	77798.00	0.00

For this load case		Accumulated		Surface
Time	Settlement	Time	Settlement	elevation
2.00	0.000	2.00	0.000	0.00
4.00	0.000	4.00	0.000	0.00

**** L O A D C A S E : 2 ****
**** C h a n g e i n G r o u n d w a t e r E l e v a t i o n ****

Time intervals: 2.00 4.00

Old water elevation ..... -220.00
New water elevation ..... -260.00

Layer	Change in stress
1	0.00
2	0.00
3	0.00
4	0.00
5	312.00
6	2496.00
7	2496.00
8	2496.00
9	2496.00
10	2496.00
11	2496.00
12	2496.00
13	2496.00
14	2496.00
15	2496.00
16	2496.00
17	2496.00
18	2496.00
19	2496.00
20	2496.00
21	2496.00
22	2496.00

Layer	Thick.	Void Ratio	Initial Pressure	Precons. Pressure	Final Pressure	Ult. Settl.
1	50.00	0.37	3050.00	3355.00	3050.00	0.000
2	50.00	0.37	9150.00	10065.00	9150.00	0.000
3	50.00	0.37	15250.00	16775.00	15250.00	0.000
4	50.00	0.37	21350.00	23485.00	21350.00	0.000
5	50.00	0.37	27138.00	29887.56	27450.00	0.007
6	50.00	0.37	30118.00	33523.16	32614.00	0.051
7	50.00	0.37	33098.00	37158.76	35594.00	0.045
8	50.00	0.37	36078.00	39791.22	38574.00	0.041
9	50.00	0.37	39058.00	43337.42	41554.00	0.038
10	50.00	0.37	42038.00	46883.62	44534.00	0.036
11	50.00	0.37	45018.00	50429.82	47514.00	0.033
12	50.00	0.37	47998.00	53976.02	50494.00	0.010
13	50.00	0.37	50978.00	57522.22	53474.00	0.009
14	50.00	0.37	53958.00	61068.42	56454.00	0.009
15	50.00	0.37	56938.00	64614.62	59434.00	0.008
16	50.00	0.37	59918.00	68160.82	62414.00	0.003
17	50.00	0.37	62898.00	71707.02	65394.00	0.002
18	50.00	0.37	65878.00	75253.22	68374.00	0.002
19	50.00	0.37	68858.00	78799.42	71354.00	0.002
20	50.00	0.37	71838.00	82345.62	74334.00	0.002
21	50.00	0.37	74818.00	85891.82	77314.00	0.002

22	50.00	0.37	77798.00	89438.02	80294.00	0.002

Ultimate settlement without correction for buoyancy : 0.303

**** Time since load was applied: 2.00 ****

Elevation	Effective Stress	Pore Pressure
-25.30	3050.00	0.00
-75.30	9150.00	0.00
-125.30	15250.00	0.00
-175.30	21428.00	0.00
-225.29	27914.96	3.05
-275.26	32061.73	6.27
-325.22	35590.78	3.22
-375.18	38574.00	0.00
-425.14	41550.13	3.87
-475.10	44526.13	7.88
-525.07	47509.98	4.01
-575.05	50494.00	0.00
-625.04	53470.07	3.92
-675.03	56446.05	7.95
-725.02	59429.96	4.03
-775.01	62414.00	0.00
-825.01	65390.05	3.95
-875.01	68366.03	7.98
-925.01	71349.96	4.04
-975.01	74334.00	0.00
-1025.00	77313.99	0.00
-1075.00	80293.99	0.00

**** Time since load was applied: 4.00 ****

Elevation	Effective Stress	Pore Pressure
-25.31	3050.00	0.00
-75.31	9150.00	0.00
-125.31	15250.00	0.00
-175.30	21428.00	0.00
-225.29	27917.99	0.01
-275.27	32067.99	0.01
-325.22	35593.99	0.01
-375.18	38574.00	0.00
-425.14	41553.99	0.01
-475.10	44533.99	0.01
-525.07	47513.98	0.01
-575.05	50494.00	0.00
-625.04	53473.98	0.01
-675.03	56453.99	0.01
-725.02	59434.00	0.01
-775.01	62414.00	0.00
-825.01	65394.00	0.01
-875.01	68374.00	0.01
-925.01	71353.98	0.01
-975.01	74334.00	0.00
-1025.00	77314.00	0.00
-1075.00	80294.00	0.00

For this load case		Accumulated		Surface
Time	Settlement	Time	Settlement	elevation
2.00	0.305	6.00	0.305	-0.30
4.00	0.305	8.00	0.305	-0.31

**** L O A D C A S E : 3 ****
**** C h a n g e i n G r o u n d w a t e r E l e v a t i o n ****

Time intervals: 2.00 4.00

Old water elevation ..... -260.00
New water elevation ..... -300.00

Layer	Change in stress
1	0.00
2	0.00
3	0.00
4	0.00
5	0.00
6	952.54
7	2496.00
8	2496.00
9	2496.00
10	2496.00
11	2496.00

12	2496.00
13	2496.00
14	2496.00
15	2496.00
16	2496.00
17	2496.01
18	2496.00
19	2496.00
20	2496.00
21	2496.00
22	2496.00

Layer	Thick.	Void Ratio	Initial Pressure	Precons. Pressure	Final Pressure	Ult. Settl.
1	50.00	0.37	3050.00	3355.00	3050.00	0.000
2	50.00	0.37	9150.00	10065.00	9150.00	0.000
3	50.00	0.37	15250.00	16775.00	15250.00	0.000
4	50.00	0.37	21428.00	23485.00	21428.00	0.000
5	49.98	0.37	27917.99	29887.56	27918.00	0.000
6	49.96	0.37	32067.99	33523.16	33020.54	0.019
7	49.96	0.37	35593.99	37158.76	38089.99	0.180
8	49.96	0.37	38574.00	39791.22	41070.00	0.215
9	49.96	0.37	41553.99	43337.42	44050.00	0.127
10	49.96	0.37	44533.99	46883.62	47030.01	0.051
11	49.97	0.37	47513.98	50429.82	50009.99	0.032
12	49.99	0.37	50494.00	53976.02	52990.00	0.009
13	49.99	0.37	53473.98	57522.22	55969.99	0.009
14	49.99	0.37	56453.99	61068.42	58950.00	0.008
15	49.99	0.37	59434.00	64614.62	61930.00	0.008
16	50.00	0.37	62414.00	68160.82	64910.00	0.002
17	50.00	0.37	65394.00	71707.02	67890.02	0.002
18	50.00	0.37	68374.00	75253.22	70870.02	0.002
19	50.00	0.37	71353.98	78799.42	73849.99	0.002
20	50.00	0.37	74334.00	82345.62	76830.00	0.002
21	50.00	0.37	77314.00	85891.82	79810.00	0.002
22	50.00	0.37	80294.00	89438.02	82790.00	0.002

Ultimate settlement without correction for buoyancy : 0.672

**** Time since load was applied: 2.00 ****

Elevation	Effective Stress	Pore Pressure
-25.92	3050.00	0.00
-75.92	9150.00	0.00
-125.92	15250.00	0.00
-175.92	21428.00	0.00
-225.91	28154.58	1.61
-275.86	33165.01	3.33
-325.75	37702.43	1.72
-375.54	41070.00	0.00
-425.33	44046.18	3.83
-475.21	47022.22	7.79
-525.13	50006.04	3.96
-575.09	52990.00	0.00
-625.07	55966.08	3.92
-675.06	58942.05	7.94
-725.04	61925.98	4.02
-775.03	64910.01	0.00
-825.02	67886.07	3.95
-875.02	70862.03	7.98
-925.01	73845.96	4.03
-975.01	76830.00	0.00
-1025.01	79809.98	0.00
-1075.00	82789.98	0.00

**** Time since load was applied: 4.00 ****

Elevation	Effective Stress	Pore Pressure
-25.92	3050.00	0.00
-75.92	9150.00	0.00
-125.92	15250.00	0.00
-175.92	21428.00	0.00
-225.91	28156.18	0.00
-275.87	33168.33	0.01
-325.75	37704.14	0.00
-375.55	41070.00	0.00
-425.34	44049.99	0.01
-475.21	47029.99	0.01
-525.13	50009.99	0.01
-575.09	52990.00	0.00
-625.07	55969.99	0.01
-675.06	58949.98	0.01
-725.04	61929.99	0.01
-775.03	64910.01	0.00
-825.02	67890.01	0.01
-875.02	70870.00	0.01

-925.01	73849.98	0.01
-975.01	76830.00	0.00
-1025.01	79809.99	0.00
-1075.00	82789.99	0.00

For this load case Time	Settlement	Accumulated Time	Settlement	Surface elevation
2.00	0.615	10.00	0.921	-0.92
4.00	0.617	12.00	0.923	-0.92

**** L O A D C A S E : 4 ****
**** C h a n g e i n G r o u n d w a t e r E l e v a t i o n ****

Time intervals: 2.00 4.00

Old water elevation ..... -300.00
New water elevation ..... -331.00

Layer	Change in stress
1	0.00
2	0.00
3	0.00
4	0.00
5	0.00
6	0.00
7	1607.11
8	1934.40
9	1934.40
10	1934.40
11	1934.40
12	1934.40
13	1934.40
14	1934.40
15	1934.40
16	1934.40
17	1934.40
18	1934.40
19	1934.40
20	1934.40
21	1934.40
22	1934.40

Layer	Thick.	Void Ratio	Initial Pressure	Precons. Pressure	Final Pressure	Ult. Settl.
1	50.00	0.37	3050.00	3355.00	3050.00	0.000
2	50.00	0.37	9150.00	10065.00	9150.00	0.000
3	50.00	0.37	15250.00	16775.00	15250.00	0.000
4	50.00	0.37	21428.00	23485.00	21428.00	0.000
5	49.98	0.37	28156.18	29887.56	28156.19	0.000
6	49.94	0.37	33168.33	33523.16	33168.34	0.000
7	49.84	0.36	37704.14	37704.14	39311.25	0.258
8	49.74	0.36	41070.00	41070.00	43004.41	0.285
9	49.83	0.36	44049.99	44049.99	45984.40	0.266
10	49.91	0.37	47029.99	47029.99	48964.40	0.249
11	49.93	0.37	50009.99	50429.82	51944.39	0.188
12	49.98	0.37	52990.00	53976.02	54924.40	0.037
13	49.98	0.37	55969.99	57522.22	57904.40	0.018
14	49.98	0.37	58949.98	61068.42	60884.40	0.006
15	49.98	0.37	61929.99	64614.62	63864.40	0.006
16	49.99	0.37	64910.01	68160.82	66844.41	0.002
17	50.00	0.37	67890.01	71707.02	69824.41	0.002
18	50.00	0.37	70870.00	75253.22	72804.41	0.002
19	50.00	0.37	73849.98	78799.42	75784.38	0.002
20	50.00	0.37	76830.00	82345.62	78764.40	0.002
21	50.00	0.37	79809.99	85891.82	81744.39	0.002
22	50.00	0.37	82789.99	89438.02	84724.39	0.001

Ultimate settlement without correction for buoyancy : 1.324

**** Time since load was applied: 2.00 ****

Elevation	Effective Stress	Pore Pressure
-27.19	3050.00	0.00
-77.19	9150.00	0.00
-127.19	15250.00	0.00
-177.19	21428.00	0.00
-227.18	28156.15	0.03
-277.13	33570.47	0.05
-326.90	38991.77	0.02
-376.45	42922.66	0.00
-425.97	45966.56	17.84
-475.59	48922.00	42.39

-525.30	51919.84	24.56
-575.15	54924.41	0.00
-625.11	57901.37	3.03
-675.08	60878.25	6.15
-725.05	63861.29	3.11
-775.04	66844.41	0.00
-825.03	69821.36	3.06
-875.03	72798.23	6.18
-925.02	75781.25	3.12
-975.01	78764.40	0.00
-1025.01	81744.38	0.00
-1075.00	84724.38	0.00

**** Time since load was applied: 4.00 ****

Elevation	Effective Stress	Pore Pressure
-27.20	3050.00	0.00
-77.20	9150.00	0.00
-127.20	15250.00	0.00
-177.20	21428.00	0.00
-227.19	28156.19	0.00
-277.14	33570.52	0.00
-326.91	38991.78	0.00
-376.46	42922.66	0.00
-425.98	45984.07	0.32
-475.60	48963.63	0.76
-525.31	51943.95	0.44
-575.15	54924.41	0.00
-625.11	57904.39	0.01
-675.08	60884.38	0.01
-725.05	63864.39	0.01
-775.04	66844.41	0.00
-825.03	69824.41	0.01
-875.03	72804.41	0.01
-925.02	75784.37	0.01
-975.01	78764.40	0.00
-1025.01	81744.38	0.00
-1075.00	84724.38	0.00

For this load case		Accumulated		Surface
Time	Settlement	Time	Settlement	elevation
2.00	1.267	14.00	2.190	-2.19
4.00	1.278	16.00	2.200	-2.20

**** L O A D C A S E : 5 ****
**** C h a n g e i n G r o u n d w a t e r E l e v a t i o n ****

Time intervals: 2.00 4.00

Old water elevation ..... -331.00
New water elevation ..... -346.00

Layer	Change in stress
1	0.00
2	0.00
3	0.00
4	0.00
5	0.00
6	0.00
7	0.00
8	936.00
9	936.00
10	936.00
11	936.00
12	936.00
13	936.00
14	936.00
15	936.00
16	936.00
17	936.00
18	936.00
19	936.00
20	936.00
21	936.00
22	936.00

Layer	Thick.	Void Ratio	Initial Pressure	Precons. Pressure	Final Pressure	Ult. Settl.
1	50.00	0.37	3050.00	3355.00	3050.00	0.000
2	50.00	0.37	9150.00	10065.00	9150.00	0.000
3	50.00	0.37	15250.00	16775.00	15250.00	0.000
4	50.00	0.37	21428.00	23485.00	21428.00	0.000
5	49.98	0.37	28156.19	29887.56	28156.19	0.000

6	49.92	0.37	33570.52	33570.52	33570.52	0.000
7	49.63	0.36	38991.78	38991.78	38991.78	0.000
8	49.47	0.35	42922.66	42922.66	43858.66	0.133
9	49.57	0.36	45984.07	45984.07	46920.39	0.125
10	49.66	0.36	48963.63	48963.63	49900.39	0.117
11	49.75	0.36	51943.95	51943.95	52880.39	0.111
12	49.94	0.37	54924.41	54924.41	55860.41	0.032
13	49.96	0.37	57904.39	57904.39	58840.39	0.031
14	49.98	0.37	60884.38	61068.42	61820.39	0.024
15	49.98	0.37	63864.39	64614.62	64800.40	0.008
16	49.99	0.37	66844.41	68160.82	67780.41	0.001
17	49.99	0.37	69824.41	71707.02	70760.41	0.001
18	49.99	0.37	72804.41	75253.22	73740.41	0.001
19	49.99	0.37	75784.37	78799.42	76720.38	0.001
20	49.99	0.37	78764.40	82345.62	79700.40	0.001
21	49.99	0.37	81744.38	85891.82	82680.38	0.001
22	49.99	0.37	84724.38	89438.02	85660.38	0.001

Ultimate settlement without correction for buoyancy : 0.586

**** Time since load was applied: 2.00 ****

Elevation	Effective Stress	Pore Pressure
-27.79	3050.00	0.00
-77.79	9150.00	0.00
-127.79	15250.00	0.00
-177.79	21428.00	0.00
-227.78	28156.19	0.00
-277.73	33570.52	0.00
-327.48	39226.16	0.00
-376.97	43625.12	0.00
-426.37	46919.10	1.32
-475.87	49897.52	2.68
-525.46	52879.00	1.36
-575.23	55860.52	0.00
-625.16	58840.37	0.03
-675.10	61820.30	0.09
-725.06	64800.33	0.06
-775.04	67780.41	0.00
-825.04	70758.94	1.48
-875.03	73737.41	2.99
-925.02	76718.87	1.51
-975.02	79700.40	0.00
-1025.01	82680.39	0.00
-1075.00	85660.39	0.00

**** Time since load was applied: 4.00 ****

Elevation	Effective Stress	Pore Pressure
-27.79	3050.00	0.00
-77.79	9150.00	0.00
-127.79	15250.00	0.00
-177.79	21428.00	0.00
-227.78	28156.19	0.00
-277.73	33570.52	0.00
-327.48	39226.16	0.00
-376.97	43625.12	0.00
-426.37	46920.41	0.00
-475.87	49900.20	0.00
-525.46	52880.36	0.00
-575.23	55860.52	0.00
-625.16	58840.39	0.00
-675.10	61820.39	0.00
-725.06	64800.39	0.00
-775.04	67780.41	0.00
-825.04	70760.41	0.00
-875.03	73740.40	0.01
-925.02	76720.38	0.00
-975.02	79700.40	0.00
-1025.01	82680.39	0.00
-1075.00	85660.39	0.00

For this load case		Accumulated		Surface
Time	Settlement	Time	Settlement	elevation
2.00	0.589	18.00	2.789	-2.79
4.00	0.590	20.00	2.790	-2.79

**** L O A D C A S E : 6 ****
**** C h a n g e i n G r o u n d w a t e r E l e v a t i o n ****

Time intervals: 2.00 4.00

Old water elevation ..... -346.00
New water elevation ..... -366.00

Layer	Change in stress
1	0.00
2	0.00
3	0.00
4	0.00
5	0.00
6	0.00
7	0.00
8	1248.00
9	1248.00
10	1248.00
11	1248.00
12	1248.00
13	1248.00
14	1248.00
15	1248.00
16	1248.00
17	1248.00
18	1248.00
19	1248.00
20	1248.00
21	1248.00
22	1248.00

Layer	Thick.	Void Ratio	Initial Pressure	Precons. Pressure	Final Pressure	Ult. Settl.
1	50.00	0.37	3050.00	3355.00	3050.00	0.000
2	50.00	0.37	9150.00	10065.00	9150.00	0.000
3	50.00	0.37	15250.00	16775.00	15250.00	0.000
4	50.00	0.37	21428.00	23485.00	21428.00	0.000
5	49.98	0.37	28156.19	29887.56	28156.19	0.000
6	49.92	0.37	33570.52	33570.52	33570.52	0.000
7	49.59	0.36	39226.16	39226.16	39226.16	0.000
8	49.37	0.35	43625.12	43625.12	44873.12	0.174
9	49.44	0.35	46920.41	46920.41	48168.42	0.162
10	49.55	0.36	49900.20	49900.20	51148.20	0.153
11	49.64	0.36	52880.36	52880.36	54128.37	0.144
12	49.91	0.37	55860.52	55860.52	57108.52	0.042
13	49.93	0.37	58840.39	58840.39	60088.39	0.040
14	49.95	0.37	61820.39	61820.39	63068.39	0.038
15	49.97	0.37	64800.39	64800.39	66048.39	0.036
16	49.99	0.37	67780.41	68160.82	69028.41	0.008
17	49.99	0.37	70760.41	71707.02	72008.41	0.004
18	49.99	0.37	73740.40	75253.22	74988.41	0.001
19	49.99	0.37	76720.38	78799.42	77968.38	0.001
20	49.99	0.37	79700.40	82345.62	80948.40	0.001
21	49.99	0.37	82680.39	85891.82	83928.39	0.001
22	49.99	0.37	85660.39	89438.02	86908.39	0.001

Ultimate settlement without correction for buoyancy : 0.807

**** Time since load was applied: 2.00 ****

Elevation	Effective Stress	Pore Pressure
-28.60	3050.00	0.00
-78.60	9150.00	0.00
-128.60	15250.00	0.00
-178.60	21428.00	0.00
-228.59	28156.19	0.00
-278.54	33570.52	0.00
-328.27	39538.86	0.00
-377.66	44561.82	0.00
-426.92	48166.72	1.69
-476.26	51144.75	3.44
-525.71	54126.61	1.75
-575.39	57108.52	0.00
-625.27	60086.46	1.93
-675.17	63064.47	3.91
-725.10	66046.42	1.98
-775.06	69028.41	0.00
-825.04	72006.44	1.97
-875.03	74984.41	3.99
-925.03	77966.36	2.01
-975.02	80948.40	0.00
-1025.01	83928.39	0.00
-1075.00	86908.39	0.00

**** Time since load was applied: 4.00 ****

Elevation	Effective Stress	Pore Pressure
-28.60	3050.00	0.00
-78.60	9150.00	0.00

-128.60	15250.00	0.00
-178.60	21428.00	0.00
-228.59	28156.19	0.00
-278.54	33570.52	0.00
-328.27	39538.86	0.00
-377.66	44561.82	0.00
-426.92	48168.41	0.00
-476.26	51148.19	0.00
-525.71	54128.36	0.00
-575.39	57108.52	0.00
-625.27	60088.39	0.00
-675.17	63068.38	0.01
-725.10	66048.40	0.00
-775.06	69028.41	0.00
-825.04	72008.40	0.00
-875.03	74988.39	0.01
-925.03	77968.37	0.00
-975.02	80948.40	0.00
-1025.01	83928.39	0.00
-1075.00	86908.39	0.00

For this load case		Accumulated		Surface
Time	Settlement	Time	Settlement	elevation
2.00	0.812	22.00	3.602	-3.60
4.00	0.813	24.00	3.603	-3.60

**** L O A D C A S E : 7 ****
**** C h a n g e i n G r o u n d w a t e r E l e v a t i o n ****

Time intervals: 2.00 4.00

Old water elevation ..... -366.00
New water elevation ..... -466.00

Layer	Change in stress
1	0.00
2	0.00
3	0.00
4	0.00
5	0.00
6	0.00
7	0.00
8	727.86
9	3801.71
10	6240.00
11	6240.00
12	6240.00
13	6240.00
14	6240.00
15	6239.99
16	6239.99
17	6239.99
18	6239.99
19	6239.99
20	6239.99
21	6239.99
22	6239.99

Layer	Thick.	Void Ratio	Initial Pressure	Precons. Pressure	Final Pressure	Ult. Settl.
1	50.00	0.37	3050.00	3355.00	3050.00	0.000
2	50.00	0.37	9150.00	10065.00	9150.00	0.000
3	50.00	0.37	15250.00	16775.00	15250.00	0.000
4	50.00	0.37	21428.00	23485.00	21428.00	0.000
5	49.98	0.37	28156.19	29887.56	28156.19	0.000
6	49.92	0.37	33570.52	33570.52	33570.52	0.000
7	49.54	0.36	39538.86	39538.86	39538.86	0.000
8	49.24	0.35	44561.82	44561.82	45289.68	0.100
9	49.28	0.35	48168.41	48168.41	51970.12	0.470
10	49.39	0.35	51148.19	51148.19	57388.19	0.712
11	49.49	0.36	54128.36	54128.36	60368.36	0.675
12	49.87	0.37	57108.52	57108.52	63348.52	0.197
13	49.89	0.37	60088.39	60088.39	66328.39	0.188
14	49.92	0.37	63068.38	63068.38	69308.38	0.180
15	49.93	0.37	66048.40	66048.40	72288.39	0.172
16	49.98	0.37	69028.41	69028.41	75268.40	0.055
17	49.99	0.37	72008.40	72008.40	78248.39	0.053
18	49.99	0.37	74988.39	75253.22	81228.39	0.049
19	49.99	0.37	77968.37	78799.42	84208.36	0.043
20	49.99	0.37	80948.40	82345.62	87188.39	0.037
21	49.99	0.37	83928.39	85891.82	90168.38	0.032
22	49.99	0.37	86908.39	89438.02	93148.38	0.028

Ultimate settlement without correction for buoyancy : 2.990

**** Time since load was applied: 2.00 ****

Elevation	Effective Stress	Pore Pressure
-31.61	3050.00	0.00
-81.61	9150.00	0.00
-131.61	15250.00	0.00
-181.61	21428.00	0.00
-231.60	28156.19	0.00
-281.55	33570.52	0.00
-331.27	39721.39	0.00
-380.56	45876.41	0.00
-429.50	51803.52	6.69
-478.29	56764.34	13.59
-527.08	60361.47	6.90
-576.32	63348.52	0.00
-626.01	66319.08	9.31
-675.73	69289.52	18.85
-725.48	72278.86	9.54
-775.33	75268.40	0.00
-825.26	78248.20	0.17
-875.20	81227.79	0.59
-925.14	84207.94	0.42
-975.10	87188.39	0.00
-1025.05	90168.38	0.01
-1075.02	93148.38	0.01

**** Time since load was applied: 4.00 ****

Elevation	Effective Stress	Pore Pressure
-31.62	3050.00	0.00
-81.62	9150.00	0.00
-131.62	15250.00	0.00
-181.62	21428.00	0.00
-231.60	28156.19	0.00
-281.55	33570.52	0.00
-331.27	39721.39	0.00
-380.56	45876.41	0.00
-429.50	51810.20	0.01
-478.29	56777.91	0.02
-527.08	60368.36	0.01
-576.32	63348.52	0.00
-626.01	66328.38	0.02
-675.73	69308.34	0.03
-725.48	72288.39	0.02
-775.33	75268.40	0.00
-825.26	78248.38	0.00
-875.20	81228.38	0.00
-925.14	84208.35	0.00
-975.10	87188.39	0.00
-1025.05	90168.38	0.00
-1075.02	93148.38	0.00

For this load case		Accumulated		Surface
Time	Settlement	Time	Settlement	elevation
2.00	3.009	26.00	6.613	-6.61
4.00	3.013	28.00	6.617	-6.62

**** L O A D C A S E : 8 ****
**** C h a n g e i n G r o u n d w a t e r E l e v a t i o n ****

Time intervals: 2.00 4.00

Old water elevation ..... -466.00
New water elevation ..... -500.00

Layer	Change in stress
1	0.00
2	0.00
3	0.00
4	0.00
5	0.00
6	0.00
7	0.00
8	0.00
9	0.00
10	767.14
11	2121.60
12	2121.60
13	2121.60
14	2121.60
15	2121.60
16	2121.60

17	2121.59
18	2121.59
19	2121.59
20	2121.59
21	2121.59
22	2121.59

Layer	Thick.	Void Ratio	Initial Pressure	Precons. Pressure	Final Pressure	Ult. Settl.
1	50.00	0.37	3050.00	3355.00	3050.00	0.000
2	50.00	0.37	9150.00	10065.00	9150.00	0.000
3	50.00	0.37	15250.00	16775.00	15250.00	0.000
4	50.00	0.37	21428.00	23485.00	21428.00	0.000
5	49.98	0.37	28156.19	29887.56	28156.19	0.000
6	49.92	0.37	33570.52	33570.52	33570.52	0.000
7	49.52	0.36	39721.39	39721.39	39721.39	0.000
8	49.06	0.34	45876.41	45876.41	45876.41	0.000
9	48.83	0.34	51810.20	51810.20	51810.20	0.000
10	48.75	0.33	56777.91	56777.91	57545.06	0.083
11	48.82	0.34	60368.36	60368.36	62489.97	0.214
12	49.67	0.36	63348.52	63348.52	65470.12	0.063
13	49.71	0.36	66328.38	66328.38	68449.99	0.060
14	49.74	0.36	69308.34	69308.34	71429.98	0.057
15	49.76	0.36	72288.39	72288.39	74410.01	0.055
16	49.93	0.37	75268.40	75268.40	77390.00	0.018
17	49.94	0.37	78248.38	78248.38	80369.97	0.017
18	49.94	0.37	81228.38	81228.38	83349.97	0.016
19	49.95	0.37	84208.35	84208.35	86329.95	0.016
20	49.96	0.37	87188.39	87188.39	89309.98	0.015
21	49.96	0.37	90168.38	90168.38	92289.98	0.015
22	49.97	0.37	93148.38	93148.38	95269.98	0.014

Ultimate settlement without correction for buoyancy : 0.643

**** Time since load was applied: 2.00 ****

Elevation	Effective Stress	Pore Pressure
-32.26	3050.00	0.00
-82.26	9150.00	0.00
-132.26	15250.00	0.00
-182.26	21428.00	0.00
-232.25	28156.19	0.00
-282.20	33570.52	0.00
-331.92	39721.39	0.00
-381.21	45876.41	0.00
-430.14	52001.16	0.98
-478.87	57689.80	2.01
-527.51	62150.09	1.02
-576.64	65470.13	0.00
-626.26	68446.90	3.11
-675.93	71423.67	6.29
-725.62	74406.83	3.18
-775.43	77390.00	0.00
-825.34	80366.66	3.31
-875.27	83343.29	6.68
-925.20	86326.57	3.37
-975.13	89309.98	0.00
-1025.08	92289.97	0.00
-1075.02	95269.97	0.00

**** Time since load was applied: 4.00 ****

Elevation	Effective Stress	Pore Pressure
-32.26	3050.00	0.00
-82.26	9150.00	0.00
-132.26	15250.00	0.00
-182.26	21428.00	0.00
-232.25	28156.19	0.00
-282.20	33570.52	0.00
-331.92	39721.39	0.00
-381.21	45876.41	0.00
-430.14	52002.14	0.00
-478.87	57691.81	0.00
-527.51	62151.11	0.00
-576.64	65470.13	0.00
-626.26	68450.00	0.00
-675.93	71429.95	0.01
-725.62	74410.00	0.01
-775.43	77390.00	0.00
-825.34	80369.97	0.01
-875.27	83349.96	0.01
-925.20	86329.94	0.01
-975.13	89309.98	0.00
-1025.08	92289.98	0.00
-1075.02	95269.98	0.00

For this load case Time	Settlement	Accumulated Time	Settlement	Surface elevation
2.00	0.647	30.00	7.263	-7.26
4.00	0.648	32.00	7.264	-7.26

**** L O A D C A S E : 9 ****
**** C h a n g e i n G r o u n d w a t e r E l e v a t i o n ****

Time intervals: 2.00

Old water elevation ..... -500.00
New water elevation ..... -595.00

Layer	Change in stress
1	0.00
2	0.00
3	0.00
4	0.00
5	0.00
6	0.00
7	0.00
8	0.00
9	0.00
10	0.00
11	1716.79
12	4782.10
13	5928.00
14	5928.01
15	5928.01
16	5928.01
17	5928.01
18	5928.00
19	5928.02
20	5928.01
21	5928.01
22	5928.01

Layer	Thick.	Void Ratio	Initial Pressure	Precons. Pressure	Final Pressure	Ult. Settl.
1	50.00	0.37	3050.00	3355.00	3050.00	0.000
2	50.00	0.37	9150.00	10065.00	9150.00	0.000
3	50.00	0.37	15250.00	16775.00	15250.00	0.000
4	50.00	0.37	21428.00	23485.00	21428.00	0.000
5	49.98	0.37	28156.19	29887.56	28156.19	0.000
6	49.92	0.37	33570.52	33570.52	33570.52	0.000
7	49.52	0.36	39721.39	39721.39	39721.39	0.000
8	49.06	0.34	45876.41	45876.41	45876.41	0.000
9	48.81	0.34	52002.14	52002.14	52002.14	0.000
10	48.65	0.33	57691.81	57691.81	57691.81	0.000
11	48.64	0.33	62151.11	62151.11	63867.90	0.169
12	49.61	0.36	65470.13	65470.13	70252.23	0.134
13	49.65	0.36	68450.00	68450.00	74378.01	0.158
14	49.68	0.36	71429.95	71429.95	77357.96	0.152
15	49.71	0.36	74410.00	74410.00	80338.02	0.146
16	49.91	0.37	77390.00	77390.00	83318.01	0.047
17	49.92	0.37	80369.97	80369.97	86297.98	0.045
18	49.93	0.37	83349.96	83349.96	89277.97	0.044
19	49.93	0.37	86329.94	86329.94	92257.96	0.042
20	49.94	0.37	89309.98	89309.98	95237.99	0.041
21	49.95	0.37	92289.98	92289.98	98217.98	0.039
22	49.95	0.37	95269.98	95269.98	101197.98	0.038

Ultimate settlement without correction for buoyancy : 1.055

**** Time since load was applied: 2.00 ****

Elevation	Effective Stress	Pore Pressure
-33.37	3050.00	0.00
-83.37	9150.00	0.00
-133.37	15250.00	0.00
-183.37	21428.00	0.00
-233.36	28156.19	0.00
-283.31	33570.52	0.00
-333.03	39721.39	0.00
-382.32	45876.41	0.00
-431.25	52001.70	0.45
-479.96	58120.14	0.91
-528.48	64197.04	0.46
-577.44	69764.68	0.00
-626.93	74083.03	8.41
-676.44	77340.95	17.01
-725.99	80329.41	8.60

-775.70	83318.02	0.00
-825.57	86288.81	9.17
-875.45	89259.47	18.50
-925.34	92248.62	9.33
-975.23	95238.00	0.00
-1025.13	98217.96	0.01
-1075.04	101197.96	0.01

For this load case Time	Settlement	Accumulated Time	Settlement	Surface elevation
2.00	1.111	34.00	8.375	-8.37

**** Complete Time Settlement Record ****

Time	Settlement	
2.00	0.000	-220
4.00	0.000	
6.00	0.305	-260
8.00	0.305	
10.00	0.921	-300
12.00	0.923	
14.00	2.190	-331
16.00	2.200	
18.00	2.789	-376
20.00	2.790	
22.00	3.602	-366
24.00	3.603	
26.00	6.613	-466
28.00	6.617	
30.00	7.263	-500
32.00	7.264	
34.00	8.375	-595

same as previous

little different but OK!!

APPENDIX C

CALCULATION PACKAGES – HYDROLOGY AND HYDRAULICS: GENERAL

Note to Reviewers: The hydrology and hydraulics calculation packages were previously submitted on August 20, 2004 for review. The calculation packages have not been included with the 90 Percent Design Report.

APPENDIX D

CALCULATION PACKAGES – HYDROLOGY AND HYDRAULICS: NRCS CRITERIA

Note to Reviewers: The hydrology and hydraulics calculation packages were previously submitted on August 20, 2004 for review. The calculation packages have not been included with the 90 Percent Design Report. Three calculations have been completed since that submittal and are included in this Appendix.

(1)

URS

CALCULATION PACKAGE NO. D-2

EXHIBIT 4.7-2

CALCULATION COVER SHEET

Client: Flood Control District of Maricopa County (FCDMC)

Project Name: White Tank FRS No. 3 Design

Project/Calculation Number: 23443748

Title:

RESERVOIR ROUTING OF TWO 100-YEAR 10-DAY BACK-BACK STORMS FOR INTERIM CONDITION

Total Number of Pages (including cover sheet): _____

Total Number of Computer Runs: 1

Prepared by: Hammad Hussain Date: 09/07/04

Checked by: Todd Ringsmuth Date: 9/7/04

Description and Purpose:

See Page 2

Design Basis /Assumptions

See Page 2

Remarks/Conclusions/Results:

See Page 3.

Calculation Approved by: Todd Ringsmuth 9/7/04
Project Manager/Date

Revision No.:	Description of Revision:	Approved by:

Project Manager/Date

RESERVOIR ROUTING OF TWO 100-YEAR 10-DAY BACK-BACK STORMS FOR INTERIM CONDITION

(WHITE TANK FLOOD RETARDING STRUCTURE (FRS) NO. 3)
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY (FCDMC)
23443748

PROBLEM STATEMENT

The aim of this calculation package is to perform the reservoir routing of two 100-year 10-day back-back storms based on interim condition and to determine the peak outflow and the corresponding water surface elevation at the end of second 100-year 10-day storm.

DESIGN BASIS/ASSUMPTIONS/REFERENCES

Interim Condition

The Interim Condition represents the time period following construction of the facilities included in the Remediation Project and the installation of the downstream conveyance channel. Since this period is anticipated to be short (less than 10 years), it is assumed that no additional sediment has accumulated in the reservoir. The principal spillway is closed and does not convey flow out of the reservoir during the interim period. Therefore, under interim condition, the only outflow from the reservoir occurs through infiltration and flows through the emergency spillway. The detailed calculations involved in estimating the infiltration rates for the Interim condition are provided in a separate calculation package.

Given that the Interim Condition was assumed a short period following construction of the dam and prior to construction of a dedicated downstream conveyance, the routing of the first 100-year 10-day storm for the Interim Condition was performed based on the current topographic condition in the reservoir (i.e., no additional sediment). Therefore, the Antecedent Reservoir Condition (ARC) for the reservoir routing of the first 100-year 10-day storm for the interim condition was set at the invert elevation of the proposed gated outlet or at elevation 1193.0 ft (NAVD 88).

100-year 10-day Back to Back Reservoir Routing for Interim condition

Step1: First, route the 100-year 10-day storm with ARC set at 100-year sediment pool level at an elevation of 1193.0 ft (NAVD 88) and determinate the water surface elevation associated with the pool elevation after 10 days of drawdown;

Step 2: Second, the water surface elevation at the end of 10th day determined in step 1 was used as ARC to route the second 100-year 10-day storm.

Based on the above criteria, first, the 100-year 10-day storm was routed through the White Tank Reservoir for interim condition starting at an elevation of 1193.0 ft (NAVD 88) using TR-20 model. It should be noted that the 100-year 10-day storm used for the routing purposes was updated in anticipation of the future urban growth based on a procedure described in National Engineering Handbook (NEH-4). The procedure and detailed calculations involved in updating the 100-year 10-day storm are provided in a separate calculation package. The reservoir routing of the first 100-year 10-day storm resulted in the reservoir elevation of 1204.56 ft at the end of 10th day.

The second 100-year 10-day storm was routed starting at 1204.56 ft using TR-20 model.

RESULTS

The reservoir routing results indicated that the Whit Tank FRS No.3 reservoir could hold two 100-year 10-day back-to-back storms below spillway under interim condition. Reservoir routing results i.e. peak inflow, peak outflow, inflow volume and maximum reservoir stage resulting from the reservoir routing of two 100-year 10-day back-back storms under interim condition are provided in Table 1 (See Page 4). The input file and the detailed output results of TR-20 modeling of two back to back 100-year 10-day storms under interim condition are attached with this calculation package.

(It should be noted that the peak out flow tabulated in Table 1 on Page 4 reflects the infiltration amount only.)

TABLE 1

RESERVOIR ROUTING RESULTS OF TWO BACK TO BACK 100-YEAR 10-DAY STORMS (INTERIM CONDITION)

Storm Duration	Inflow to White Tanks FRS No. 3				Outflow From White Tanks FRS No. 3	
	Precipitation	Peak Inflow	Inflow Volume	Antecedent Reservoir Condition (ARC)	Peak Outflow[1]	Maximum Reservoir Elevation (NAVD 88)
	(inches)	(cfs)	(acre-ft)	(ft)	(cfs)	(ft)
Results of Ist 100-Year 10-Day Storm	Based on updated runoff hyetograph (Calculation Package 10)	2180	1828	1193	55.4	1205.7
Results At End of Second 100-Year 10-Day Storm	Based on updated runoff hyetograph (Calculation Package 10)	2180	1828	1204.56 [2]	71	1208.9

Notes:

1) It should be noted that given the maximum reservoir elevation is less than the spillway crest level (1212 ft), the peak out flow reflects the infiltration amount.

2) The ARC for the second 100-yr 10-day storm was based on the reservoir elevation of the first 100-year 10-day strom after 10-days.

Reservoir Routing of First 100-yr 10-day storm
(~~Problem 6~~ Interim Condition)

```
******************80-80 LIST OF INPUT DATA FOR TR-20 HYDROLOGY******************

JOB TR-20 WHTANK3                          PASS=001  SUMMARY
TITLE     WHITE TANK FRS #3, WATERSHED DIVIDED INTO 7 SUB-BASINS
TITLE     100-YR 10-DAY RUNOFF & DIST IN TABLE 1, 100-YR SED IN RESVOIR
 5 RAINFL 1     1        2.4                                          10-DAY
 8          .0000       .0010       .0035       .0061       .0086
 8          .0112       .0143       .0174       .0206       .0237
 8          .0269       .0303       .0338       .0372       .0406
 8          .0440       .0475       .0509       .0543       .0577
 8          .0612       .0658       .0704       .0750       .0796
 8          .0842       .0888       .0934       .0980       .1026
 8          .1073       .1135       .1197       .1260       .1322
 8          .1384       .1466       .1549       .1631       .1713
 8          .1796       .1878       .2004       .2150       .2296
 8          .2477       .2658       .2881       .3168       .3600
 8          .7090       1.139       1.285       1.342       1.373
 8          1.395       1.412       1.425       1.438       1.448
 8          1.459       1.467       1.475       1.484       1.492
 8          1.500       1.507       1.513       1.519       1.526
 8          1.532       1.537       1.541       1.546       1.550
 8          1.555       1.560       1.564       1.569       1.574
 8          1.578       1.582       1.585       1.589       1.592
 8          1.596       1.599       1.603       1.606       1.610
 8          1.613       1.616       1.618       1.621       1.623
 8          1.626       1.628       1.630       1.633       1.635
 8          1.638        1.64        1.64        1.64        1.64
 9 ENDTBL
 4 DIMHYD               .0556                                          WT3
 8          0.0         .03         .10         .19         .31
 8          .47         .66         .82         .93         .99
 8          1.0         .99         .93         .82         .66
 8          .47         .31         .03         .00         .00
 9 ENDTBL
 2 XSECTN   005         1.0         8.77                               BOSSCS#5
 8                      0.          0.0         0.0
 8                      0.35        5.          5.56
 8                      1.03        50.         30.95
 8                      1.39        100.        52.16
 8                      1.94        200.        88.72
 8                      2.63        400.        148.61
 8                      3.51        800.        260.63
 8                      4.62        1600.       459.66
 8                      6.04        3200.       929.36
 8                      7.38        6400.       1811.51
 8                      8.77        12800.      3374.20
 8                      10.17       25600.      6398.87
 8                      11.89       51200.      10982.51
 9 ENDTBL
 2 XSECTN   010         1.0         10.41                              BOSSCS#4
 8                      0.          0.0         0.0
 8                      0.86        5.          4.39
 8                      2.01        50.         24.22
 8                      2.58        100.        40.12
 8                      3.46        200.        80.99
 8                      4.14        400.        129.44
 8                      5.16        800.        214.74
 8                      6.39        1600.       441.84
```

1) First 100-yr 10-day storm was started under interim condition at elevation 1193.0 ft.

2) Elevation of reservoir was determined at end of 10th day and was found to be equal to 1204.56 ft.

3) 1204.56 ft was used as ARC for reservoir routing of second 100-yr 10-day storm.

```
8                       7.80        3200.       980.75
8                       9.16        6400.       1891.44
8                       10.41       12800.      3516.14
8                       11.75       25600.      6548.98
8                       13.26       51200.      11081.19
9 ENDTBL
2 XSECTN    020         1.0         7.3                                 REACHC
8                       0.          0.0         0.0
8                       1.01        100.        57.78
8                       1.49        200.        86.81
8                       1.88        300.        110.25
8                       2.49        500.        149.47
8                       3.68        1000.       226.31
8                       5.40        2000.       346.26
8                       7.85        4000.       533.39
8                       9.64        6000.       688.07
8                       11.16       8000.       838.10
8                       12.46       10000.      985.31
8                       13.61       12000.      1122.03
8                       14.56       14000.      1236.94
8                       15.43       16000.      1345.18
8                       16.31       18000.      1456.68
9 ENDTBL
2 XSECTN    025         1.0         7.3                                 REACHB
8                       0.          0.0         0.0
8                       0.63        100.        80.89
8                       0.93        200.        120.32
8                       1.17        300.        151.77
8                       1.56        500.        203.28
8                       2.30        1000.       302.00
8                       3.38        2000.       449.24
8                       4.97        4000.       673.73
8                       6.23        6000.       855.96
8                       7.31        8000.       1016.35
8                       8.24        10000.      1158.51
8                       9.09        12000.      1293.31
8                       9.90        14000.      1425.57
8                       10.64       16000.      1549.17
8                       11.36       18000.      1673.11
9 ENDTBL
2 XSECTN    030         1.0         9.45                                BOSSCS#6
8                       0.          0.0         0.0
8                       0.77        5.          4.67
8                       1.54        50.         32.06
8                       1.78        100.        56.64
8                       2.10        200.        100.59
8                       2.50        400.        179.97
8                       3.01        800.        320.25
8                       3.63        1600.       589.66
8                       4.35        3200.       1110.72
8                       5.21        6400.       2084.48
8                       6.03        12800.      4119.83
8                       6.99        25600.      6856.75
8                       8.28        51200.      11085.87
9 ENDTBL
2 XSECTN    045         1.0         4.87                                REACHA
```

```
**********************80-80 LIST OF INPUT DATA (CONTINUED)*********************

 8                      0.          0.0         0.0
 8                      0.60        100.        85.69
 8                      0.90        200.        127.94
 8                      1.13        300.        161.93
 8                      1.52        500.        217.27
 8                      2.25        1000.       324.03
 8                      3.31        2000.       483.02
 8                      4.87        4000.       722.17
 8                      6.09        6000.       914.99
 8                      7.15        8000.       1084.61
 8                      8.05        10000.      1234.17
 8                      8.87        12000.      1373.80
 8                      9.64        14000.      1507.84
 8                      10.34       16000.      1633.45
 8                      11.00       18000.      1753.12
 9 ENDTBL
 2 XSECTN    060        1.0         4.7                                 2CP6CP7
 8                      0.          0.0         0.0
 8                      2.36        100.        45.12
 8                      2.88        200.        83.75
 8                      3.18        300.        114.33
 8                      3.64        500.        172.72
 8                      4.42        1000.       289.04
 8                      5.40        2000.       470.72
 8                      6.87        4000.       782.74
 8                      7.91        6000.       1020.12
 8                      8.79        8000.       1231.25
 8                      9.60        10000.      1435.05
 8                      10.26       12000.      1618.34
 8                      10.94       14000.      1812.58
 8                      11.47       16000.      1983.46
 8                      11.96       18000.      2150.12
 9 ENDTBL
 2 XSECTN    067        1.0         8.77                                BOSSCS#5
 8                      0.          0.0         0.0
 8                      0.35        5.          5.56
 8                      1.03        50.         30.95
 8                      1.39        100.        52.16
 8                      1.94        200.        88.72
 8                      2.63        400.        148.61
 8                      3.51        800.        260.63
 8                      4.62        1600.       459.66
 8                      6.04        3200.       929.36
 8                      7.38        6400.       1811.51
 8                      8.77        12800.      3374.20
 8                      10.17       25600.      6398.87
 8                      11.89       51200.      10982.51
 9 ENDTBL
 3 STRUCT       01      Elevation(ft) Q(cfs)    Volume (ft^3)               95/11/6
 8                      1178.0      0.00        0.0
 8                      1188.0      2.71        44.8
 8                      1193.0      7.29        129.0
 8                      1199.2      26.75       500.0
 8                      1202.0      38.68       845.55
 8                      1204.0      48.00       1176.28
 8                      1206.0      56.80       1575.25
```

```
**********************80-80 LIST OF INPUT DATA (CONTINUED)**********************

 8                        1208.0      66.40       2044.97
 8                        1210.0      77.10       2593.40
 8                        1212.0      85.95       3218.00
 8                        1213.0      2685.00     3556.67
 8                        1214.0      8231.00     3916.02
 8                        1215.0      15545.0     4294.13
 8                        1216.0      24272.0     4692.68
 8                        1217.0      34212.0     5113.19
 8                        1218.0      45232.0     5556.01
 8                        1219.0      57233.0     6021.50
 8                        1220.0      70142.0     6509.75
 9 ENDTBL
 6 RUNOFF 1 001       1 2.46        87.2        0.85        1 1
 6 REACH  3 005   1   7 9100.                               1           BOSS#6
 6 REACH  3 010   7   2 9100.                               1           BOSS#4
 6 RUNOFF 1 002       3 2.38        79.9        0.73        1 1
 6 ADDHYD 4 012   2 3 1                                     1 1
 6 DIVERT 6 012   1 4 7 4100.       1.00        200.        1 1         OLIVE
 6 REACH  3 020   4   7 3332.                               1           REACH C
 6 REACH  3 025   7   5 1950.                               1           REACH B
 6 RUNOFF 1 003       6 3.94        87.2        0.88        1 1
 6 REACH  3 030   6   7 8865.                               1           BOSS#6
 6 REACH  3 005   7   1 8865.                               1           BOSS#5
 6 REACH  3 025   1   7 1950.                               1           REACH B
 6 RUNOFF 1 004       1 2.06        77.3        0.79        1 1
 6 ADDHYD 4 034   7 1 2                                     1 1
 6 ADDHYD 4 035   5 2 3                                     1 1
 6 DIVERT 6 035   3 4 7 11000.      1.00        199.        1 1         NORTHERN
 6 REACH  3 045   4   5 4200.                               1           REACH A
 6 RUNOFF 1 006       2 1.47        87.7        0.47        1 1
 6 REACH  3 060   2   3 7540.                               1           CP6CP7
 6 REACH  3 067   3   4 5140.                               1           BOSS#5
 6 ADDHYD 4 064   5 4 3                                     1 1
 6 RUNOFF 1 005       6 4.78        78.8        0.78        1 1
 6 RUNOFF 1 007       7 3.48        81.7        1.01        1 1
 6 ADDHYD 4 075   6 7 1                                     1 1
 6 ADDHYD 4 076   1 3 2                                     1 1     1
 6 RESVOR 2    01 2   1 1193.0                               1 1     1
ENDATA
 7 LIST                 1.0                       1.
 7 INCREM 6             1.05
 7 COMPUT 7 001      01 0.          1.0         1.0         1 2  01  01
   ENDCMP 1
 7 COMPUT 7 001      01 0.          1.0         1.0         1 2  02  01
   ENDCMP 1
   ENDJOB 2

*********************************END OF 80-80 LIST*********************************
```

RUNOFF OPTION USED WITH RAINTABLE NO. 1, RUNOFF CURVE NO. = 100.

COMPUTED DIMHYD PEAK RATE FACTOR = 664.607

```
EXECUTIVE CONTROL  LIST          1.          0.          1.

          LISTING OF CURRENT DATA


                    COMPUTED TIME INCREMENT
DIMHYD                        .0556

                  .0000       .0300       .1000       .1900       .3100
                  .4700       .6600       .8200       .9300       .9900
                 1.0000       .9900       .9300       .8200       .6600
                  .4700       .3100       .0300       .0000       .0000
ENDTBL

   COMPUTED PEAK RATE FACTOR =  664.607
```

	TABLE NO.	TIME INCREMENT
RAINFL	1	2.4000

.0000	.0010	.0035	.0061	.0086
.0112	.0143	.0174	.0206	.0237
.0269	.0303	.0338	.0372	.0406
.0440	.0475	.0509	.0543	.0577
.0612	.0658	.0704	.0750	.0796
.0842	.0888	.0934	.0980	.1026
.1073	.1135	.1197	.1260	.1322
.1384	.1466	.1549	.1631	.1713
.1796	.1878	.2004	.2150	.2296
.2477	.2658	.2881	.3168	.3600
.7090	1.1390	1.2850	1.3420	1.3730
1.3950	1.4120	1.4250	1.4380	1.4480
1.4590	1.4670	1.4750	1.4840	1.4920
1.5000	1.5070	1.5130	1.5190	1.5260
1.5320	1.5370	1.5410	1.5460	1.5500
1.5550	1.5600	1.5640	1.5690	1.5740
1.5780	1.5820	1.5850	1.5890	1.5920
1.5960	1.5990	1.6030	1.6060	1.6100
1.6130	1.6160	1.6180	1.6210	1.6230
1.6260	1.6280	1.6300	1.6330	1.6350
1.6380	1.6400	1.6400	1.6400	1.6400

ENDTBL

STANDARD CONTROL INSTRUCTIONS

```
RUNOFF        1       1      2.4600     87.2000      .85001 1 0 0 0 1
REACH         5   1   7   9100.0000       .0000      .00001 0 0 0 0 1
REACH        10   7   2   9100.0000       .0000      .00001 0 0 0 0 1
RUNOFF        2       3      2.3800     79.9000      .73001 1 0 0 0 1
ADDHYD       12   2 3 1                                   1 1 0 0 0 1
DIVERT       12   1 4 7   4100.0000      1.0000   200.00001 1 0 0 0 1
REACH        20   4   7   3332.0000       .0000      .00001 0 0 0 0 1
REACH        25   7   5   1950.0000       .0000      .00001 0 0 0 0 1
RUNOFF        3       6      3.9400     87.2000      .88001 1 0 0 0 1
REACH        30   6   7   8865.0000       .0000      .00001 0 0 0 0 1
REACH         5   7   1   8865.0000       .0000      .00001 0 0 0 0 1
REACH        25   1   7   1950.0000       .0000      .00001 0 0 0 0 1
RUNOFF        4       1      2.0600     77.3000      .79001 1 0 0 0 1
ADDHYD       34   7 1 2                                   1 1 0 0 0 1
ADDHYD       35   5 2 3                                   1 1 0 0 0 1
DIVERT       35   3 4 7  11000.0000      1.0000   199.00001 1 0 0 0 1
REACH        45   4   5   4200.0000       .0000      .00001 0 0 0 0 1
RUNOFF        6       2      1.4700     87.7000      .47001 1 0 0 0 1
REACH        60   2   3   7540.0000       .0000      .00001 0 0 0 0 1
REACH        67   3   4   5140.0000       .0000      .00001 0 0 0 0 1
ADDHYD       64   5 4 3                                   1 1 0 0 0 1
RUNOFF        5       6      4.7800     78.8000      .78001 1 0 0 0 1
RUNOFF        7       7      3.4800     81.7000     1.01001 1 0 0 0 1
ADDHYD       75   6 7 1                                   1 1 0 0 0 1
ADDHYD       76   1 3 2                                   1 1 0 0 1 1
RESVOR          1 2   1   1193.0000                       1 1 0 0 1 1
ENDATA
```

END OF LISTING

EXECUTIVE CONTROL INCREM MAIN TIME INCREMENT = 1.050 HOURS

EXECUTIVE CONTROL COMPUT FROM XSECTION 1 TO STRUCTURE 1
STARTING TIME = .00 RAIN DEPTH = 1.00 RAIN DURATION = 1.00
ANT. RUNOFF COND. = 2 MAIN TIME INCREMENT = 1.050 HOURS
ALTERNATE NO. = 1 STORM NO. = 1 RAIN TABLE NO. = 1

OPERATION RUNOFF XSECTION 1

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
121.40	290.4	(RUNOFF)
138.08	8.7	(RUNOFF)
143.29	7.3	(RUNOFF)
150.61	6.0	(RUNOFF)
164.99	4.6	(RUNOFF)
174.63	3.3	(RUNOFF)
179.55	3.3 *	(RUNOFF)
187.64	3.3	(RUNOFF)
192.22	2.6	(RUNOFF)
208.25	2.7	(RUNOFF)

* FIRST POINT OF FLAT PEAK

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 1
MAIN TIME INCREMENT = 1.050 hr, DRAINAGE AREA = 2.46 SQ.MI.

HRS								
.00 CFS	.00	.66	.66	1.45	1.65	1.68	1.72	1.71
8.40 CFS	1.65	1.65	1.71	1.72	1.92	2.05	2.05	2.05
16.80 CFS	2.05	2.11	2.11	2.06	2.05	2.08	2.11	2.13
25.20 CFS	2.25	2.25	2.31	2.31	2.27	2.25	2.25	2.25
33.60 CFS	2.25	2.25	2.25	2.30	2.31	2.29	2.25	2.25
42.00 CFS	2.25	2.25	2.25	2.25	2.29	2.31	2.48	3.04
50.40 CFS	3.04	3.04	3.04	3.04	3.04	3.04	3.04	3.04
58.80 CFS	3.04	3.04	3.04	3.04	3.04	3.04	3.04	3.04
67.20 CFS	3.04	3.04	3.04	3.09	3.11	3.51	4.10	4.10
75.60 CFS	4.10	4.10	4.16	4.16	4.12	4.10	4.10	4.10
84.00 CFS	4.11	5.40	5.42	5.47	5.48	5.46	5.42	5.42
92.40 CFS	5.42	5.42	5.48	5.48	5.44	5.42	6.18	8.33
100.80 CFS	8.41	9.58	9.65	9.65	9.65	10.62	11.96	11.96
109.20 CFS	11.96	12.01	14.43	14.74	17.28	18.96	21.33	28.55
117.60 CFS	33.56	229.35	230.66	273.71	284.13	207.45	96.47	89.78
126.00 CFS	38.02	37.66	22.09	20.48	16.69	14.54	13.75	11.23
134.40 CFS	11.10	8.71	8.59	8.59	8.59	7.72	6.61	6.68
142.80 CFS	7.27	7.25	5.50	5.29	5.29	5.29	5.46	5.95
151.20 CFS	5.91	5.31	5.29	5.29	5.29	5.02	4.63	4.55
159.60 CFS	3.96	3.96	3.96	3.96	4.38	4.63	4.48	3.96
168.00 CFS	3.95	3.32	3.30	2.79	2.64	2.93	3.30	3.22
176.40 CFS	2.65	2.64	3.25	3.30	3.30	3.30	3.13	2.64

184.80 CFS	2.68	3.27	3.30	3.30	3.30	3.03	2.64	2.64
193.20 CFS	2.64	2.63	2.05	1.98	2.38	2.64	2.49	1.98
201.60 CFS	1.99	2.64	2.64	2.11	1.98	2.26	2.64	2.56
210.00 CFS	1.99	1.98	2.58	2.64	2.22	1.98	1.98	1.98
218.40 CFS	1.95	1.35	1.32	1.83	1.98	1.70	1.32	1.39
226.80 CFS	1.98	1.97	1.39	1.32	1.32	1.32	1.49	1.98
235.20 CFS	1.95	1.34	1.32	1.85	1.98	1.72	1.32	1.17
243.60 CFS	.00							

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.68 WATERSHED INCHES; 2671 CFS-HRS; 220.7 ACRE-FEET.

*** WARNING - MAIN TIME INCREMENT (1.050) IS GREATER THAN 50% OF THE
TIME OF CONCENTRATION (.85) FOR SUBWATERSHED XSECTION 1.
THIS WILL REDUCE THE COMPUTED PEAK BY ABOUT -2.1%. ***

OPERATION REACH XSECTION 5

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
122.55	283.3	2.23
144.42	7.4	.39
151.83	5.9	.36
166.22	4.6	.32
175.87	3.3	.23
182.21	3.3	.23
189.54	3.3	.23
214.00	2.6	.18
240.45	1.9	.14

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.62 WATERSHED INCHES; 2576 CFS-HRS; 212.9 ACRE-FEET.

OPERATION REACH XSECTION 10

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
123.70	277.3	3.72
145.52	7.3	.92
153.01	5.9	.88
167.44	4.5	.78
177.05	3.2	.56
183.33	3.3	.57
190.64	3.3	.57
215.18	2.6	.44
241.65	1.9	.33

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.66 WATERSHED INCHES; 2642 CFS-HRS; 218.3 ACRE-FEET.

OPERATION RUNOFF XSECTION 2

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
78.23	4.0	(RUNOFF)
121.33	285.1	(RUNOFF)
137.49	8.3	(RUNOFF)
143.33	7.3	(RUNOFF)
154.35	5.1	(RUNOFF)
164.80	4.5	(RUNOFF)
174.61	3.2	(RUNOFF)
181.13	3.2	(RUNOFF)
188.48	3.2	(RUNOFF)
192.69	2.6	(RUNOFF)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 1
MAIN TIME INCREMENT = 1.050 hr, DRAINAGE AREA = 2.38 SQ.MI.

HRS								
.00 CFS	.00	.64	.64	1.49	1.60	1.63	1.66	1.65
8.40 CFS	1.60	1.60	1.66	1.66	1.90	1.98	1.98	1.98
16.80 CFS	1.99	2.05	2.05	1.99	1.98	2.01	2.05	2.06
25.20 CFS	2.17	2.17	2.23	2.24	2.19	2.17	2.17	2.17
33.60 CFS	2.17	2.17	2.17	2.23	2.24	2.20	2.17	2.17
42.00 CFS	2.17	2.17	2.17	2.17	2.22	2.24	2.46	2.94
50.40 CFS	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94
58.80 CFS	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94
67.20 CFS	2.94	2.94	2.94	3.00	3.00	3.49	3.96	3.96
75.60 CFS	3.96	3.96	4.03	4.03	3.98	3.96	3.96	3.96
84.00 CFS	4.03	5.24	5.24	5.30	5.31	5.27	5.24	5.24
92.40 CFS	5.24	5.24	5.30	5.31	5.26	5.24	5.96	8.06
100.80 CFS	8.11	9.32	9.33	9.33	9.33	10.46	11.57	11.57
109.20 CFS	11.57	11.57	14.21	14.26	17.19	18.35	21.32	27.62
117.60 CFS	36.73	223.11	223.11	269.22	274.90	177.77	93.34	85.77
126.00 CFS	36.44	36.28	20.57	19.82	15.53	14.06	13.20	10.87
134.40 CFS	10.74	8.33	8.31	8.31	8.31	7.35	6.39	6.48
142.80 CFS	7.03	7.03	5.17	5.11	5.11	5.11	5.32	5.75
151.20 CFS	5.73	5.11	5.11	5.11	5.11	4.77	4.48	4.39
159.60 CFS	3.84	3.84	3.84	3.84	4.32	4.48	4.29	3.84
168.00 CFS	3.80	3.20	3.20	2.63	2.56	2.88	3.20	3.12
176.40 CFS	2.56	2.56	3.17	3.20	3.20	3.20	2.99	2.56
184.80 CFS	2.57	3.20	3.20	3.20	3.20	2.85	2.56	2.56
193.20 CFS	2.56	2.55	1.94	1.92	2.41	2.56	2.37	1.92
201.60 CFS	1.96	2.56	2.56	2.00	1.92	2.24	2.56	2.47
210.00 CFS	1.92	1.92	2.53	2.56	2.10	1.92	1.92	1.92
218.40 CFS	1.91	1.28	1.28	1.85	1.92	1.58	1.28	1.37
226.80 CFS	1.92	1.91	1.29	1.28	1.28	1.28	1.48	1.92
235.20 CFS	1.88	1.28	1.28	1.84	1.92	1.59	1.28	1.10
243.60 CFS	.00							

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.67 WATERSHED INCHES; 2561 CFS-HRS; 211.6 ACRE-FEET.

*** WARNING - MAIN TIME INCREMENT (1.050) IS GREATER THAN 50% OF THE
TIME OF CONCENTRATION (.73) FOR SUBWATERSHED XSECTION 2.
THIS WILL REDUCE THE COMPUTED PEAK BY ABOUT -3.7%. ***

OPERATION ADDHYD XSECTION 12

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
121.80	488.3	(NULL)
145.48	12.4	(NULL)
150.94	11.1	(NULL)
153.00	11.0	(NULL)
165.72	8.5	(NULL)
178.68	6.0	(NULL)
181.69	6.4	(NULL)
186.07	6.0	(NULL)
188.84	6.4	(NULL)
212.28	4.7	(NULL)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 1
MAIN TIME INCREMENT = 1.050 hr, DRAINAGE AREA = 4.84 SQ.MI.

HRS								
.00 CFS	.00	.64	.64	1.93	2.20	2.81	3.18	3.29
8.40 CFS	3.29	3.30	3.33	3.32	3.59	3.69	3.84	3.97
16.80 CFS	4.02	4.09	4.09	4.08	4.09	4.09	4.10	4.13
25.20 CFS	4.27	4.29	4.44	4.47	4.47	4.48	4.46	4.43
33.60 CFS	4.42	4.42	4.42	4.48	4.48	4.49	4.48	4.47
42.00 CFS	4.43	4.42	4.42	4.42	4.47	4.48	4.74	5.24
50.40 CFS	5.36	5.78	5.93	5.97	5.98	5.98	5.98	5.98
58.80 CFS	5.98	5.98	5.98	5.98	5.98	5.98	5.98	5.98
67.20 CFS	5.98	5.98	5.98	6.04	6.04	6.56	7.06	7.33
75.60 CFS	7.83	8.00	8.11	8.12	8.12	8.12	8.10	8.07
84.00 CFS	8.13	9.34	9.35	10.28	10.61	10.70	10.71	10.70
92.40 CFS	10.67	10.66	10.72	10.72	10.72	10.72	11.42	13.48
100.80 CFS	14.04	16.88	17.51	18.48	18.85	20.07	21.21	21.87
109.20 CFS	23.01	23.40	26.14	26.24	30.83	32.77	37.69	45.80
117.60 CFS	57	249	254	434	488	433	369	316
126.00 CFS	175	139	79	63	44	37	32	27
134.40 CFS	25.04	20.52	19.70	17.87	17.16	16.00	15.00	14.49
142.80 CFS	14.08	13.80	12.26	12.32	11.17	10.62	10.66	11.05
151.20 CFS	11.13	10.89	10.99	10.61	10.46	10.07	9.76	9.50
159.60 CFS	8.61	8.45	8.01	7.85	8.30	8.44	8.54	8.34
168.00 CFS	8.30	7.34	7.19	6.17	5.92	5.85	5.93	5.98
176.40 CFS	5.72	5.77	6.01	5.89	6.26	6.43	6.28	5.86
184.80 CFS	5.76	6.01	5.91	6.28	6.44	6.14	5.86	5.68
193.20 CFS	5.35	5.23	4.59	4.55	4.66	4.61	4.63	4.44
201.60 CFS	4.46	4.71	4.59	4.43	4.51	4.51	4.62	4.66
210.00 CFS	4.42	4.47	4.70	4.59	4.50	4.49	4.26	4.01
218.40 CFS	3.92	3.27	3.24	3.40	3.30	3.25	3.17	3.13
226.80 CFS	3.38	3.32	3.08	3.20	2.85	2.67	2.81	3.24
235.20 CFS	3.32	3.09	3.20	3.37	3.29	3.28	3.18	2.88

243.60 CFS 1.47 1.26 .40

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.67 WATERSHED INCHES; 5202 CFS-HRS; 429.9 ACRE-FEET.

OPERATION DIVERT XSECTION 12
OUTPUT #1 HYDROGRAPH

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
121.80	488.3	(DIVERT)
145.48	12.4	(DIVERT)
150.94	11.1	(DIVERT)
153.00	11.0	(DIVERT)
165.72	8.5	(DIVERT)
178.68	6.0	(DIVERT)
181.69	6.4	(DIVERT)
186.07	6.0	(DIVERT)
188.84	6.4	(DIVERT)
212.28	4.7	(DIVERT)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 1
MAIN TIME INCREMENT = 1.050 hr, DRAINAGE AREA = 4.84 SQ.MI.

HRS								
.00 CFS	.00	.64	.64	1.93	2.20	2.81	3.18	3.29
8.40 CFS	3.29	3.30	3.33	3.32	3.59	3.69	3.84	3.97
16.80 CFS	4.02	4.09	4.09	4.08	4.09	4.09	4.10	4.13
25.20 CFS	4.27	4.29	4.44	4.47	4.47	4.48	4.46	4.43
33.60 CFS	4.42	4.42	4.42	4.48	4.48	4.49	4.48	4.47
42.00 CFS	4.43	4.42	4.42	4.42	4.47	4.48	4.74	5.24
50.40 CFS	5.36	5.78	5.93	5.97	5.98	5.98	5.98	5.98
58.80 CFS	5.98	5.98	5.98	5.98	5.98	5.98	5.98	5.98
67.20 CFS	5.98	5.98	5.98	6.04	6.04	6.56	7.06	7.33
75.60 CFS	7.83	8.00	8.11	8.12	8.12	8.12	8.10	8.07
84.00 CFS	8.13	9.34	9.35	10.28	10.61	10.70	10.71	10.70
92.40 CFS	10.67	10.66	10.72	10.72	10.72	10.72	11.42	13.48
100.80 CFS	14.04	16.88	17.51	18.48	18.85	20.07	21.21	21.87
109.20 CFS	23.01	23.40	26.14	26.24	30.83	32.77	37.69	45.80
117.60 CFS	57	249	254	434	488	433	369	316
126.00 CFS	175	139	79	63	44	37	32	27
134.40 CFS	25.04	20.52	19.70	17.87	17.16	16.00	15.00	14.49
142.80 CFS	14.08	13.80	12.26	12.32	11.17	10.62	10.66	11.05
151.20 CFS	11.13	10.89	10.99	10.61	10.46	10.07	9.76	9.50
159.60 CFS	8.61	8.45	8.01	7.85	8.30	8.44	8.54	8.34
168.00 CFS	8.30	7.34	7.19	6.17	5.92	5.85	5.93	5.98
176.40 CFS	5.72	5.77	6.01	5.89	6.26	6.43	6.28	5.86
184.80 CFS	5.76	6.01	5.91	6.28	6.44	6.14	5.86	5.68
193.20 CFS	5.35	5.23	4.59	4.55	4.66	4.61	4.63	4.44
201.60 CFS	4.46	4.71	4.59	4.43	4.51	4.51	4.62	4.66
210.00 CFS	4.42	4.47	4.70	4.59	4.50	4.49	4.26	4.01
218.40 CFS	3.92	3.27	3.24	3.40	3.30	3.25	3.17	3.13
226.80 CFS	3.38	3.32	3.08	3.20	2.85	2.67	2.81	3.24

235.20 CFS	3.32	3.09	3.20	3.37	3.29	3.28	3.18	2.88
243.60 CFS	1.47	1.26	.40					

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.67 WATERSHED INCHES; 5202 CFS-HRS; 429.9 ACRE-FEET.

OUTPUT #2 DIVERTED HYDROGRAPH (XSECTION 200)

*** MESSAGE - HYDROGRAPH CONTAINS NO FLOW ***

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
237 CFS-HRS; 429.9 ACRE-FEET.

*** WARNING - ROUTING COEFFICIENT (C) EQUALS 1.0,
CONSIDER SMALLER MAIN TIME INCREMENT FOR XSECTION 20. ***

OPERATION REACH XSECTION 20

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
121.80	488.3	2.45
145.48	12.4	.13
150.94	11.1	.11
153.00	11.0	.11
165.72	8.5	.09
178.68	6.0	.06
181.69	6.4	.06
186.07	6.0	.06
188.84	6.4	.07
212.28	4.7	.05

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.67 WATERSHED INCHES; 5202 CFS-HRS; 429.9 ACRE-FEET.

*** WARNING - ROUTING COEFFICIENT (C) EQUALS 1.0,
CONSIDER SMALLER MAIN TIME INCREMENT FOR XSECTION 25. ***

OPERATION REACH XSECTION 25

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
121.80	488.3	1.54
145.48	12.4	.08
150.94	11.1	.07
153.00	11.0	.07
165.72	8.5	.05
178.68	6.0	.04
181.69	6.4	.04
186.07	6.0	.04
188.84	6.4	.04
212.28	4.7	.03

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.67 WATERSHED INCHES; 5202 CFS-HRS; 429.9 ACRE-FEET.

OPERATION RUNOFF XSECTION 3

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
121.39	461.9	(RUNOFF)
126.52	63.0	(RUNOFF)
138.08	13.8	(RUNOFF)
143.32	11.7	(RUNOFF)
150.67	9.6	(RUNOFF)
154.88	8.5	(RUNOFF)
165.01	7.4	(RUNOFF)
174.70	5.3	(RUNOFF)
181.12	5.2	(RUNOFF)
186.90	5.2 *	(RUNOFF)

* FIRST POINT OF FLAT PEAK

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 1
MAIN TIME INCREMENT = 1.050 hr, DRAINAGE AREA = 3.94 SQ.MI.

HRS								
.00 CFS	.00	1.05	1.05	2.37	2.62	2.67	2.73	2.72
8.40 CFS	2.62	2.62	2.72	2.73	3.06	3.25	3.25	3.25
16.80 CFS	3.26	3.36	3.36	3.27	3.25	3.30	3.36	3.38
25.20 CFS	3.57	3.57	3.67	3.67	3.61	3.57	3.57	3.57
33.60 CFS	3.57	3.57	3.57	3.66	3.67	3.63	3.57	3.57
42.00 CFS	3.57	3.57	3.57	3.57	3.64	3.67	3.91	4.83
50.40 CFS	4.83	4.83	4.83	4.83	4.83	4.83	4.83	4.83
58.80 CFS	4.83	4.83	4.83	4.83	4.83	4.83	4.83	4.83
67.20 CFS	4.83	4.83	4.83	4.92	4.93	5.55	6.51	6.51
75.60 CFS	6.51	6.51	6.61	6.61	6.55	6.51	6.51	6.51
84.00 CFS	6.54	8.59	8.61	8.70	8.71	8.67	8.61	8.61
92.40 CFS	8.61	8.61	8.71	8.71	8.65	8.61	9.50	13.23
100.80 CFS	13.26	15.31	15.33	15.33	15.33	16.76	19.00	19.00
109.20 CFS	19.00	19.00	23.26	23.41	27.69	30.13	33.19	45.35
117.60 CFS	49	364	366	437	451	331	153	147
126.00 CFS	59.84	59.84	34.19	32.54	26.67	23.10	22.09	17.85

134.40 CFS	17.77	13.69	13.65	13.65	13.65	12.40	10.50	10.57
142.80 CFS	11.55	11.54	8.50	8.40	8.40	8.40	8.60	9.45
151.20 CFS	9.44	8.40	8.40	8.40	8.40	7.98	7.35	7.29
159.60 CFS	6.30	6.30	6.30	6.30	6.95	7.35	7.14	6.30
168.00 CFS	6.28	5.26	5.25	4.39	4.20	4.62	5.25	5.17
176.40 CFS	4.20	4.20	5.22	5.25	5.25	5.25	5.05	4.20
184.80 CFS	4.20	5.25	5.25	5.25	5.25	4.83	4.20	4.20
193.20 CFS	4.20	4.20	3.21	3.15	3.81	4.20	3.99	3.15
201.60 CFS	3.17	4.19	4.20	3.33	3.15	3.57	4.20	4.12
210.00 CFS	3.15	3.15	4.16	4.20	3.54	3.15	3.15	3.15
218.40 CFS	3.14	2.10	2.10	2.98	3.15	2.74	2.10	2.16
226.80 CFS	3.15	3.15	2.16	2.10	2.10	2.10	2.31	3.15
235.20 CFS	3.13	2.11	2.10	2.98	3.15	2.73	2.10	1.94
243.60 CFS	.00							

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.67 WATERSHED INCHES; 4251 CFS-HRS; 351.3 ACRE-FEET.

*** WARNING - MAIN TIME INCREMENT (1.050) IS GREATER THAN 50% OF THE
TIME OF CONCENTRATION (.88) FOR SUBWATERSHED XSECTION 3.
THIS WILL REDUCE THE COMPUTED PEAK BY ABOUT -2.3%. ***

OPERATION REACH XSECTION 30

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
122.60	444.1	2.56
144.45	11.7	.88
151.93	9.4	.85
166.33	7.2	.81
175.98	5.2	.77
182.27	5.3	.77
189.57	5.3	.77
204.49	4.2	.64
209.58	4.1	.64
214.02	4.1	.64

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.61 WATERSHED INCHES; 4102 CFS-HRS; 339.0 ACRE-FEET.

OPERATION REACH XSECTION 5

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
123.73	437.4	2.71
145.53	11.6	.45
153.06	9.4	.42
167.50	7.2	.38
177.12	5.2	.35
183.39	5.2	.35
190.65	5.3	.35
205.63	4.1	.29
210.71	4.1	.29
215.18	4.1	.29

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.65 WATERSHED INCHES; 4198 CFS-HRS; 347.0 ACRE-FEET.

*** WARNING - ROUTING COEFFICIENT (C) EQUALS 1.0,
CONSIDER SMALLER MAIN TIME INCREMENT FOR XSECTION 25. ***

OPERATION REACH XSECTION 25

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
123.73	437.4	1.44
145.53	11.6	.07
153.06	9.4	.06
167.50	7.2	.05
177.12	5.2	.03
183.39	5.2	.03
190.65	5.3	.03
205.63	4.1	.03
210.71	4.1	.03
215.18	4.1	.03

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.65 WATERSHED INCHES; 4198 CFS-HRS; 347.0 ACRE-FEET.

OPERATION RUNOFF XSECTION 4

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
121.36	245.1	(RUNOFF)
138.08	7.3	(RUNOFF)
143.27	6.1	(RUNOFF)
154.88	4.5	(RUNOFF)
164.96	3.9	(RUNOFF)
193.72	2.2	(RUNOFF)
198.49	2.2	(RUNOFF)
203.17	2.3	(RUNOFF)
208.22	2.2	(RUNOFF)
212.72	2.2	(RUNOFF)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 1
MAIN TIME INCREMENT = 1.050 hr, DRAINAGE AREA = 2.06 SQ.MI.

HRS								
.00 CFS	.00	.55	.55	1.25	1.38	1.41	1.44	1.43
8.40 CFS	1.38	1.38	1.43	1.44	1.63	1.72	1.72	1.72
16.80 CFS	1.72	1.77	1.77	1.72	1.72	1.74	1.77	1.78
25.20 CFS	1.88	1.88	1.93	1.94	1.90	1.88	1.88	1.88
33.60 CFS	1.88	1.88	1.88	1.93	1.94	1.91	1.88	1.88
42.00 CFS	1.88	1.88	1.88	1.88	1.92	1.94	2.09	2.55
50.40 CFS	2.55	2.55	2.55	2.55	2.55	2.55	2.55	2.55
58.80 CFS	2.55	2.55	2.55	2.55	2.55	2.55	2.55	2.55
67.20 CFS	2.55	2.55	2.55	2.59	2.60	2.97	3.43	3.43
75.60 CFS	3.43	3.43	3.48	3.49	3.45	3.43	3.43	3.43
84.00 CFS	3.47	4.54	4.54	4.58	4.59	4.57	4.54	4.54
92.40 CFS	4.54	4.54	4.59	4.59	4.56	4.54	5.24	6.97
100.80 CFS	6.98	8.08	8.08	8.08	8.08	9.01	10.02	10.02
109.20 CFS	10.02	10.02	12.18	12.34	14.81	15.88	18.22	23.90
117.60 CFS	29.21	189.88	193.12	230.82	237.94	161.93	80.79	74.74
126.00 CFS	31.54	31.45	18.30	17.15	13.66	12.17	11.39	9.41
134.40 CFS	9.29	7.25	7.19	7.19	7.19	6.41	5.53	5.60
142.80 CFS	6.09	6.06	4.55	4.43	4.43	4.43	4.57	4.98
151.20 CFS	4.95	4.44	4.43	4.43	4.43	4.18	3.87	3.80
159.60 CFS	3.32	3.32	3.32	3.32	3.68	3.87	3.75	3.32
168.00 CFS	3.29	2.77	2.77	2.31	2.21	2.46	2.77	2.70
176.40 CFS	2.21	2.21	2.75	2.77	2.77	2.77	2.62	2.21
184.80 CFS	2.23	2.77	2.77	2.77	2.77	2.51	2.21	2.21
193.20 CFS	2.21	2.21	1.68	1.66	2.03	2.21	2.06	1.66
201.60 CFS	1.66	2.21	2.21	1.75	1.66	1.92	2.21	2.14
210.00 CFS	1.66	1.66	2.18	2.21	1.83	1.66	1.66	1.66
218.40 CFS	1.64	1.12	1.11	1.57	1.66	1.39	1.11	1.17
226.80 CFS	1.66	1.66	1.15	1.11	1.11	1.11	1.26	1.66
235.20 CFS	1.63	1.12	1.11	1.57	1.66	1.40	1.11	.97
243.60 CFS	.00							

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.67 WATERSHED INCHES; 2219 CFS-HRS; 183.4 ACRE-FEET.

*** WARNING - MAIN TIME INCREMENT (1.050) IS GREATER THAN 50% OF THE
TIME OF CONCENTRATION (.79) FOR SUBWATERSHED XSECTION 4.
THIS WILL REDUCE THE COMPUTED PEAK BY ABOUT -3.0%. ***

OPERATION ADDHYD XSECTION 34

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
80.58	10.0	(NULL)
122.26	578.6	(NULL)
145.46	16.1	(NULL)
153.05	13.8	(NULL)
166.39	10.5	(NULL)
189.08	7.9	(NULL)
214.94	5.8	(NULL)
229.70	4.2	(NULL)
237.42	4.1	(NULL)
241.03	4.1	(NULL)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 1
MAIN TIME INCREMENT = 1.050 hr, DRAINAGE AREA = 6.00 SQ.MI.

HRS								
.00 CFS	.00	.55	.55	1.92	2.32	3.27	3.82	4.01
8.40 CFS	4.07	4.09	4.09	4.07	4.32	4.43	4.65	4.86
16.80 CFS	4.94	5.01	5.02	5.04	5.06	5.04	5.04	5.07
25.20 CFS	5.21	5.24	5.43	5.48	5.53	5.54	5.51	5.47
33.60 CFS	5.46	5.45	5.45	5.50	5.51	5.53	5.54	5.52
42.00 CFS	5.48	5.46	5.45	5.45	5.49	5.51	5.70	6.20
50.40 CFS	6.37	7.02	7.27	7.34	7.37	7.37	7.37	7.37
58.80 CFS	7.37	7.37	7.37	7.37	7.37	7.37	7.37	7.37
67.20 CFS	7.37	7.37	7.37	7.42	7.43	7.86	8.35	8.75
75.60 CFS	9.53	9.82	9.96	9.99	10.02	10.03	10.00	9.96
84.00 CFS	9.98	11.05	11.07	12.43	12.97	13.17	13.22	13.21
92.40 CFS	13.17	13.15	13.20	13.20	13.23	13.24	13.90	15.60
100.80 CFS	16.16	19.87	20.90	22.53	23.14	24.26	25.32	26.26
109.20 CFS	28.06	28.73	31.10	31.32	36.53	38.78	44.23	52.66
117.60 CFS	61	230	239	481	569	564	517	445
126.00 CFS	260	203	116	88	60	49	41	35
134.40 CFS	32.39	26.91	25.52	22.51	21.34	20.20	19.22	18.46
142.80 CFS	17.40	16.85	15.81	15.88	13.99	13.18	13.07	13.40
151.20 CFS	13.48	13.56	13.77	13.18	12.93	12.60	12.28	11.93
159.60 CFS	10.94	10.71	10.00	9.73	10.01	10.18	10.46	10.46
168.00 CFS	10.44	9.37	9.14	7.96	7.58	7.19	7.13	7.21
176.40 CFS	7.20	7.33	7.28	7.07	7.64	7.90	7.84	7.45
184.80 CFS	7.35	7.29	7.06	7.66	7.91	7.73	7.45	7.19
193.20 CFS	6.68	6.49	5.91	5.86	5.60	5.49	5.66	5.66
201.60 CFS	5.66	5.67	5.47	5.59	5.75	5.54	5.51	5.60
210.00 CFS	5.60	5.73	5.66	5.46	5.66	5.74	5.41	5.01
218.40 CFS	4.85	4.28	4.25	4.05	3.87	4.09	4.11	4.02
226.80 CFS	4.02	3.87	3.96	4.15	3.59	3.32	3.40	3.77
235.20 CFS	3.87	3.95	4.15	4.02	3.86	4.09	4.11	3.80

243.60 CFS 2.36 2.07 .73 .22

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.66 WATERSHED INCHES; 6418 CFS-HRS; 530.4 ACRE-FEET.

OPERATION ADDHYD XSECTION 35

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
122.01	1061.9	(NULL)
145.47	28.5	(NULL)
153.03	24.8	(NULL)
166.06	19.0	(NULL)
175.15	13.2	(NULL)
178.35	13.3	(NULL)
181.83	14.3	(NULL)
185.71	13.3	(NULL)
188.96	14.4	(NULL)
214.86	10.3	(NULL)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 1
MAIN TIME INCREMENT = 1.050 hr, DRAINAGE AREA = 10.84 SQ.MI.

HRS								
.00 CFS	.00	1.19	1.19	3.85	4.52	6.08	7.00	7.30
8.40 CFS	7.36	7.40	7.42	7.39	7.91	8.12	8.49	8.83
16.80 CFS	8.96	9.10	9.12	9.12	9.15	9.13	9.14	9.20
25.20 CFS	9.49	9.54	9.87	9.96	10.00	10.02	9.96	9.90
33.60 CFS	9.88	9.87	9.87	9.97	9.99	10.02	10.02	9.99
42.00 CFS	9.91	9.88	9.87	9.87	9.95	9.99	10.44	11.44
50.40 CFS	11.73	12.80	13.20	13.31	13.34	13.35	13.35	13.35
58.80 CFS	13.35	13.35	13.35	13.35	13.35	13.35	13.35	13.35
67.20 CFS	13.35	13.35	13.35	13.45	13.47	14.42	15.41	16.09
75.60 CFS	17.36	17.82	18.07	18.11	18.14	18.15	18.09	18.03
84.00 CFS	18.11	20.38	20.42	22.71	23.58	23.86	23.93	23.92
92.40 CFS	23.84	23.82	23.92	23.92	23.94	23.95	25.32	29.08
100.80 CFS	30.20	36.75	38.41	41.00	41.99	44.34	46.53	48.13
109.20 CFS	51.07	52.13	57.24	57.56	67.36	71.55	81.92	98.45
117.60 CFS	118	479	494	915	1058	997	886	761
126.00 CFS	436	342	195	151	104	86	73	61
134.40 CFS	57.42	47.43	45.22	40.37	38.49	36.20	34.21	32.95
142.80 CFS	31.48	30.65	28.08	28.21	25.17	23.80	23.72	24.46
151.20 CFS	24.62	24.45	24.77	23.79	23.39	22.67	22.04	21.43
159.60 CFS	19.55	19.16	18.01	17.58	18.31	18.62	19.00	18.80
168.00 CFS	18.74	16.71	16.34	14.13	13.50	13.04	13.07	13.19
176.40 CFS	12.92	13.10	13.29	12.96	13.90	14.33	14.12	13.31
184.80 CFS	13.11	13.30	12.97	13.95	14.35	13.87	13.31	12.87
193.20 CFS	12.03	11.72	10.49	10.42	10.25	10.10	10.30	10.10
201.60 CFS	10.13	10.38	10.06	10.03	10.26	10.05	10.13	10.26
210.00 CFS	10.01	10.20	10.36	10.05	10.15	10.24	9.67	9.02
218.40 CFS	8.77	7.55	7.49	7.44	7.17	7.34	7.28	7.15
226.80 CFS	7.40	7.19	7.04	7.36	6.44	5.99	6.21	7.01
235.20 CFS	7.19	7.03	7.34	7.39	7.16	7.37	7.28	6.69

243.60 CFS 3.83 3.33 1.14 .32

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.66 WATERSHED INCHES; 11620 CFS-HRS; 960.3 ACRE-FEET.

OPERATION DIVERT XSECTION 35
OUTPUT #1 HYDROGRAPH

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
122.01	1061.9	(DIVERT)
145.47	28.5	(DIVERT)
153.03	24.8	(DIVERT)
166.06	19.0	(DIVERT)
175.15	13.2	(DIVERT)
178.35	13.3	(DIVERT)
181.83	14.3	(DIVERT)
185.71	13.3	(DIVERT)
188.96	14.4	(DIVERT)
214.86	10.3	(DIVERT)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 1
MAIN TIME INCREMENT = 1.050 hr, DRAINAGE AREA = 10.84 SQ.MI.

HRS								
.00 CFS	.00	1.19	1.19	3.85	4.52	6.08	7.00	7.30
8.40 CFS	7.36	7.40	7.42	7.39	7.91	8.12	8.49	8.83
16.80 CFS	8.96	9.10	9.12	9.12	9.15	9.13	9.14	9.20
25.20 CFS	9.49	9.54	9.87	9.96	10.00	10.02	9.96	9.90
33.60 CFS	9.88	9.87	9.87	9.97	9.99	10.02	10.02	9.99
42.00 CFS	9.91	9.88	9.87	9.87	9.95	9.99	10.44	11.44
50.40 CFS	11.73	12.80	13.20	13.31	13.34	13.35	13.35	13.35
58.80 CFS	13.35	13.35	13.35	13.35	13.35	13.35	13.35	13.35
67.20 CFS	13.35	13.35	13.35	13.45	13.47	14.42	15.41	16.09
75.60 CFS	17.36	17.82	18.07	18.11	18.14	18.15	18.09	18.03
84.00 CFS	18.11	20.38	20.42	22.71	23.58	23.86	23.93	23.92
92.40 CFS	23.84	23.82	23.92	23.92	23.94	23.95	25.32	29.08
100.80 CFS	30.20	36.75	38.41	41.00	41.99	44.34	46.53	48.13
109.20 CFS	51.07	52.13	57.24	57.56	67.36	71.55	81.92	98.45
117.60 CFS	118	479	494	915	1058	997	886	761
126.00 CFS	436	342	195	151	104	86	73	61
134.40 CFS	57.42	47.43	45.22	40.37	38.49	36.20	34.21	32.95
142.80 CFS	31.48	30.65	28.08	28.21	25.17	23.80	23.72	24.46
151.20 CFS	24.62	24.45	24.77	23.79	23.39	22.67	22.04	21.43
159.60 CFS	19.55	19.16	18.01	17.58	18.31	18.62	19.00	18.80
168.00 CFS	18.74	16.71	16.34	14.13	13.50	13.04	13.07	13.19
176.40 CFS	12.92	13.10	13.29	12.96	13.90	14.33	14.12	13.31
184.80 CFS	13.11	13.30	12.97	13.95	14.35	13.87	13.31	12.87
193.20 CFS	12.03	11.72	10.49	10.42	10.25	10.10	10.30	10.10
201.60 CFS	10.13	10.38	10.06	10.03	10.26	10.05	10.13	10.26
210.00 CFS	10.01	10.20	10.36	10.05	10.15	10.24	9.67	9.02
218.40 CFS	8.77	7.55	7.49	7.44	7.17	7.34	7.28	7.15
226.80 CFS	7.40	7.19	7.04	7.36	6.44	5.99	6.21	7.01

235.20 CFS	7.19	7.03	7.34	7.39	7.16	7.37	7.28	6.69
243.60 CFS	3.83	3.33	1.14	.32				

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.66 WATERSHED INCHES; 11620 CFS-HRS; 960.3 ACRE-FEET.

OUTPUT #2 DIVERTED HYDROGRAPH (XSECTION 199)

*** MESSAGE - HYDROGRAPH CONTAINS NO FLOW ***

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
238 CFS-HRS; 960.3 ACRE-FEET.

*** WARNING - ROUTING COEFFICIENT (C) EQUALS 1.0,
CONSIDER SMALLER MAIN TIME INCREMENT FOR XSECTION 45. ***

OPERATION REACH XSECTION 45

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
122.01	1061.9	2.32
145.47	28.5	.17
153.03	24.8	.15
166.06	19.0	.11
175.15	13.2	.08
178.35	13.3	.08
181.83	14.3	.09
185.71	13.3	.08
188.96	14.4	.09
214.86	10.3	.06

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.66 WATERSHED INCHES; 11620 CFS-HRS; 960.3 ACRE-FEET.

OPERATION RUNOFF XSECTION 6

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
121.27	178.9	(RUNOFF)
143.18	4.5	(RUNOFF)
150.54	3.7	(RUNOFF)
169.58	2.1	(RUNOFF)
174.29	2.0	(RUNOFF)
181.13	2.1	(RUNOFF)
188.48	2.1	(RUNOFF)
212.62	1.7	(RUNOFF)
234.63	1.2	(RUNOFF)
239.03	1.2	(RUNOFF)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 1
MAIN TIME INCREMENT = 1.050 hr, DRAINAGE AREA = 1.47 SQ.MI.

HRS								
2.10 CFS	.41	.95	1.02	1.04	1.06	1.05	1.02	1.02
10.50 CFS	1.06	1.06	1.22	1.26	1.26	1.26	1.27	1.30
18.90 CFS	1.30	1.26	1.26	1.29	1.30	1.33	1.38	1.39
27.30 CFS	1.42	1.42	1.39	1.38	1.38	1.38	1.38	1.38
35.70 CFS	1.39	1.42	1.42	1.39	1.38	1.38	1.38	1.38
44.10 CFS	1.38	1.38	1.42	1.42	1.68	1.87	1.87	1.87
52.50 CFS	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87
60.90 CFS	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87
69.30 CFS	1.87	1.91	1.91	2.31	2.52	2.52	2.52	2.52
77.70 CFS	2.56	2.56	2.53	2.52	2.52	2.52	2.57	3.34
86.10 CFS	3.34	3.37	3.38	3.35	3.34	3.34	3.34	3.34
94.50 CFS	3.38	3.38	3.34	3.34	4.29	5.13	5.29	5.94
102.90 CFS	5.94	5.94	5.94	7.05	7.37	7.37	7.37	7.58
111.30 CFS	9	9	12	12	15	18	49	142
119.70 CFS	144	175	175	82	59	45	23	22
128.10 CFS	12.62	12.62	9.38	8.96	7.83	6.92	6.58	5.29
136.50 CFS	5.29	5.29	5.29	4.46	4.07	4.20	4.48	4.43
144.90 CFS	3.29	3.26	3.26	3.26	3.45	3.66	3.63	3.26
153.30 CFS	3.26	3.26	3.26	3.00	2.85	2.75	2.44	2.44
161.70 CFS	2.44	2.44	2.76	2.85	2.66	2.44	2.40	2.04
170.10 CFS	2.04	1.66	1.63	1.91	2.04	1.90	1.63	1.66
178.50 CFS	2.04	2.04	2.04	2.04	1.81	1.63	1.72	2.04
186.90 CFS	2.04	2.04	2.04	1.71	1.63	1.63	1.63	1.57
195.30 CFS	1.22	1.22	1.63	1.63	1.39	1.22	1.32	1.63
203.70 CFS	1.61	1.22	1.22	1.53	1.63	1.47	1.22	1.26
212.10 CFS	1.63	1.63	1.28	1.22	1.22	1.22	1.15	.81
220.50 CFS	.81	1.19	1.22	.95	.81	.92	1.22	1.22
228.90 CFS	.83	.81	.81	.81	1.00	1.22	1.21	.82
237.30 CFS	.81	1.18	1.22	.96	.81	.61	.00	

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.68 WATERSHED INCHES; 1598 CFS-HRS; 132.0 ACRE-FEET.

*** WARNING - MAIN TIME INCREMENT (1.050) IS GREATER THAN 50% OF THE
TIME OF CONCENTRATION (.47) FOR SUBWATERSHED XSECTION 6.
THIS WILL REDUCE THE COMPUTED PEAK BY ABOUT -2.3%. ***

OPERATION REACH XSECTION 60

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
122.40	180.7	2.78
144.39	4.5	.11
151.78	3.7	.09
165.88	2.8	.07
182.19	2.1	.05
189.53	2.1	.05
213.87	1.6	.04
223.45	1.2	.03
228.53	1.2	.03
235.83	1.2	.03

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.67 WATERSHED INCHES; 1587 CFS-HRS; 131.1 ACRE-FEET.

*** WARNING - ROUTING COEFFICIENT (C) EQUALS 1.0,
CONSIDER SMALLER MAIN TIME INCREMENT FOR XSECTION 67. ***

OPERATION REACH XSECTION 67

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
122.40	180.7	1.83
144.39	4.5	.32
151.78	3.7	.26
165.88	2.8	.20
182.19	2.1	.14
189.53	2.1	.14
213.87	1.6	.11
223.45	1.2	.08
228.53	1.2	.09
235.83	1.2	.09

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.67 WATERSHED INCHES; 1587 CFS-HRS; 131.1 ACRE-FEET.

OPERATION ADDHYD XSECTION 64

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
122.07	1233.0	(NULL)
152.80	28.2	(NULL)
166.01	21.8	(NULL)
175.28	15.2	(NULL)
181.83	16.4	(NULL)
186.13	15.0	(NULL)
188.96	16.4	(NULL)
214.17	11.8	(NULL)
229.44	8.4	(NULL)
240.47	8.6	(NULL)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 1
MAIN TIME INCREMENT = 1.050 hr, DRAINAGE AREA = 12.31 SQ.MI.

HRS								
.00 CFS	.00	1.19	1.52	4.24	5.36	7.06	8.03	8.35
8.40 CFS	8.41	8.42	8.44	8.44	8.97	9.31	9.73	10.09
16.80 CFS	10.22	10.37	10.41	10.42	10.42	10.40	10.43	10.50
25.20 CFS	10.81	10.91	11.25	11.37	11.42	11.41	11.35	11.28
33.60 CFS	11.26	11.25	11.25	11.36	11.41	11.44	11.41	11.38
42.00 CFS	11.29	11.26	11.25	11.25	11.34	11.40	11.86	13.07
50.40 CFS	13.55	14.66	15.07	15.18	15.21	15.22	15.22	15.22
58.80 CFS	15.22	15.22	15.22	15.22	15.22	15.22	15.22	15.22
67.20 CFS	15.22	15.22	15.22	15.33	15.37	16.33	17.63	18.55
75.60 CFS	19.87	20.34	20.59	20.66	20.70	20.69	20.62	20.55
84.00 CFS	20.64	22.95	23.60	26.01	26.94	27.24	27.28	27.26
92.40 CFS	27.18	27.15	27.26	27.29	27.32	27.30	28.66	33.18
100.80 CFS	35.12	41.97	44.21	46.92	47.93	50.28	53.35	55.39
109.20 CFS	58	59	65	66	76	83	93	113
117.60 CFS	135	522	616	1054	1226	1171	987	829
126.00 CFS	485	371	218	166	117	96	82	69
134.40 CFS	64.59	54.13	50.80	45.72	43.80	41.49	38.84	37.13
142.80 CFS	35.67	35.07	32.51	31.73	28.48	27.06	26.98	27.86
151.20 CFS	28.23	28.08	28.10	27.06	26.65	25.93	25.09	24.32
159.60 CFS	22.33	21.67	20.46	20.03	20.75	21.32	21.82	21.49
168.00 CFS	21.23	19.13	18.45	16.18	15.24	14.69	14.92	15.19
176.40 CFS	14.84	14.79	14.95	14.91	15.92	16.36	16.15	15.16
184.80 CFS	14.78	15.01	14.94	15.97	16.38	15.91	15.08	14.52
193.20 CFS	13.67	13.35	12.08	11.71	11.49	11.65	11.91	11.54
201.60 CFS	11.39	11.69	11.62	11.62	11.56	11.28	11.61	11.86
210.00 CFS	11.51	11.47	11.63	11.61	11.77	11.59	10.91	10.25
218.40 CFS	9.99	8.71	8.38	8.27	8.28	8.53	8.28	8.00
226.80 CFS	8.31	8.34	8.25	8.26	7.27	6.81	7.02	7.97
235.20 CFS	8.35	8.24	8.24	8.22	8.27	8.57	8.29	7.54
243.60 CFS	4.48	3.46	1.16	.32				

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.66 WATERSHED INCHES; 13207 CFS-HRS; 1091.4 ACRE-FEET.

OPERATION RUNOFF XSECTION 5

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
78.28	8.1	(RUNOFF)
121.36	569.3	(RUNOFF)
138.08	16.9	(RUNOFF)
143.30	14.3	(RUNOFF)
150.60	11.7	(RUNOFF)
164.86	9.0	(RUNOFF)
174.64	6.5	(RUNOFF)
180.43	6.4	(RUNOFF)
188.48	6.5	(RUNOFF)
208.22	5.2	(RUNOFF)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 1
MAIN TIME INCREMENT = 1.050 hr, DRAINAGE AREA = 4.78 SQ.MI.

HRS								
.00 CFS	.00	1.28	1.28	2.92	3.21	3.27	3.34	3.32
8.40 CFS	3.21	3.21	3.33	3.34	3.76	3.98	3.98	3.98
16.80 CFS	3.98	4.11	4.11	4.00	3.98	4.04	4.11	4.14
25.20 CFS	4.37	4.37	4.48	4.49	4.41	4.37	4.37	4.37
33.60 CFS	4.37	4.37	4.37	4.47	4.49	4.43	4.37	4.37
42.00 CFS	4.37	4.37	4.37	4.37	4.46	4.49	4.87	5.91
50.40 CFS	5.91	5.91	5.91	5.91	5.91	5.91	5.91	5.91
58.80 CFS	5.91	5.91	5.91	5.91	5.91	5.91	5.91	5.91
67.20 CFS	5.91	5.91	5.91	6.01	6.03	6.91	7.96	7.96
75.60 CFS	7.96	7.96	8.08	8.09	8.00	7.96	7.96	7.96
84.00 CFS	8.07	10.47	10.53	10.64	10.66	10.60	10.53	10.53
92.40 CFS	10.53	10.53	10.65	10.66	10.57	10.53	12.17	16.18
100.80 CFS	16.22	18.72	18.75	18.75	18.75	20.91	23.24	23.24
109.20 CFS	23.24	23.31	28.33	28.63	34.05	36.85	41.93	55.47
117.60 CFS	62	448	448	537	552	373	187	174
126.00 CFS	73.19	72.66	42.18	39.80	32.11	28.25	26.69	21.83
134.40 CFS	21.61	16.69	16.69	16.69	16.69	14.82	12.84	13.01
142.80 CFS	14.12	14.10	10.56	10.27	10.27	10.27	10.59	11.56
151.20 CFS	11.48	10.28	10.27	10.27	10.27	9.67	8.99	8.82
159.60 CFS	7.70	7.70	7.70	7.70	8.62	8.99	8.63	7.70
168.00 CFS	7.63	6.44	6.42	5.35	5.14	5.72	6.42	6.27
176.40 CFS	5.14	5.14	6.36	6.42	6.42	6.42	6.04	5.14
184.80 CFS	5.20	6.39	6.42	6.42	6.42	5.83	5.14	5.14
193.20 CFS	5.14	5.14	3.89	3.85	4.72	5.14	4.76	3.85
201.60 CFS	3.89	5.11	5.14	4.05	3.85	4.46	5.14	4.97
210.00 CFS	3.85	3.86	5.08	5.14	4.29	3.85	3.85	3.85
218.40 CFS	3.85	2.57	2.57	3.66	3.85	3.23	2.57	2.73
226.80 CFS	3.85	3.83	2.65	2.57	2.57	2.57	2.90	3.85
235.20 CFS	3.81	2.57	2.57	3.65	3.85	3.22	2.57	2.25
243.60 CFS	.00							

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.67 WATERSHED INCHES; 5155 CFS-HRS; 426.0 ACRE-FEET.

*** WARNING - MAIN TIME INCREMENT (1.050) IS GREATER THAN 50% OF THE
TIME OF CONCENTRATION (.78) FOR SUBWATERSHED XSECTION 5.
THIS WILL REDUCE THE COMPUTED PEAK BY ABOUT -3.1%. ***

OPERATION RUNOFF XSECTION 7

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
121.49	403.1	(RUNOFF)
143.33	10.5	(RUNOFF)
150.66	8.4	(RUNOFF)
165.11	6.5	(RUNOFF)
174.73	4.7	(RUNOFF)
180.93	4.6	(RUNOFF)
188.48	4.7	(RUNOFF)
192.68	3.7	(RUNOFF)
208.35	3.8	(RUNOFF)
212.82	3.7	(RUNOFF)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 1
MAIN TIME INCREMENT = 1.050 hr, DRAINAGE AREA = 3.48 SQ.MI.

HRS								
.00 CFS	.00	.90	.93	1.92	2.32	2.35	2.41	2.40
8.40 CFS	2.32	2.32	2.40	2.41	2.65	2.87	2.87	2.87
16.80 CFS	2.88	2.96	2.97	2.90	2.87	2.90	2.97	2.98
25.20 CFS	3.15	3.15	3.23	3.25	3.20	3.15	3.15	3.15
33.60 CFS	3.15	3.15	3.15	3.22	3.25	3.22	3.15	3.15
42.00 CFS	3.15	3.15	3.15	3.15	3.20	3.25	3.39	4.27
50.40 CFS	4.27	4.27	4.27	4.27	4.27	4.27	4.27	4.27
58.80 CFS	4.27	4.27	4.27	4.27	4.27	4.27	4.27	4.27
67.20 CFS	4.27	4.27	4.27	4.33	4.36	4.79	5.75	5.75
75.60 CFS	5.75	5.75	5.83	5.84	5.79	5.75	5.75	5.75
84.00 CFS	5.79	7.52	7.60	7.67	7.70	7.67	7.60	7.60
92.40 CFS	7.60	7.60	7.69	7.70	7.65	7.60	8.19	11.68
100.80 CFS	11.70	13.48	13.54	13.54	13.54	14.58	16.78	16.78
109.20 CFS	16.78	16.78	20.14	20.68	23.74	26.61	28.86	40.03
117.60 CFS	43	311	324	377	399	317	135	130
126.00 CFS	53.45	52.79	32.22	28.75	24.51	20.40	19.64	15.76
134.40 CFS	15.69	12.24	12.05	12.05	12.05	11.18	9.27	9.32
142.80 CFS	10.19	10.20	7.75	7.42	7.42	7.42	7.55	8.35
151.20 CFS	8.33	7.45	7.42	7.42	7.42	7.12	6.49	6.44
159.60 CFS	5.57	5.56	5.56	5.56	6.04	6.49	6.34	5.57
168.00 CFS	5.56	4.67	4.64	3.97	3.71	4.00	4.64	4.57
176.40 CFS	3.72	3.71	4.50	4.64	4.64	4.64	4.48	3.71
184.80 CFS	3.73	4.59	4.64	4.64	4.64	4.35	3.71	3.71
193.20 CFS	3.71	3.71	2.89	2.78	3.25	3.71	3.58	2.78
201.60 CFS	2.80	3.68	3.71	3.06	2.78	3.08	3.71	3.66
210.00 CFS	2.79	2.78	3.60	3.71	3.23	2.78	2.78	2.78
218.40 CFS	2.78	1.88	1.85	2.52	2.78	2.49	1.85	1.92
226.80 CFS	2.77	2.78	1.99	1.85	1.85	1.85	2.01	2.78
235.20 CFS	2.77	1.90	1.85	2.51	2.78	2.50	1.85	1.76

243.60 CFS .00

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.68 WATERSHED INCHES; 3762 CFS-HRS; 310.9 ACRE-FEET.

*** WARNING - MAIN TIME INCREMENT (1.050) IS GREATER THAN 50% OF THE
TIME OF CONCENTRATION (1.01) FOR SUBWATERSHED XSECTION 7.
THIS WILL REDUCE THE COMPUTED PEAK BY ABOUT -1.1%. ***

OPERATION ADDHYD XSECTION 75

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
121.40	971.9	(NULL)
138.08	29.1	(NULL)
143.32	24.6	(NULL)
150.63	20.1	(NULL)
164.97	15.5	(NULL)
174.68	11.2	(NULL)
180.84	11.1	(NULL)
188.48	11.2	(NULL)
208.28	8.9	(NULL)
212.74	9.0	(NULL)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 1
MAIN TIME INCREMENT = 1.050 hr, DRAINAGE AREA = 8.26 SQ.MI.

HRS								
.00 CFS	.00	2.18	2.21	4.84	5.53	5.62	5.75	5.73
8.40 CFS	5.53	5.53	5.73	5.75	6.41	6.85	6.85	6.85
16.80 CFS	6.86	7.07	7.08	6.90	6.85	6.95	7.08	7.12
25.20 CFS	7.52	7.52	7.72	7.74	7.61	7.52	7.52	7.52
33.60 CFS	7.52	7.52	7.52	7.69	7.74	7.65	7.52	7.52
42.00 CFS	7.52	7.52	7.52	7.52	7.66	7.74	8.26	10.17
50.40 CFS	10.17	10.17	10.17	10.17	10.17	10.17	10.17	10.17
58.80 CFS	10.17	10.17	10.17	10.17	10.17	10.17	10.17	10.17
67.20 CFS	10.17	10.17	10.17	10.35	10.39	11.70	13.71	13.71
75.60 CFS	13.71	13.71	13.91	13.93	13.80	13.71	13.71	13.71
84.00 CFS	13.86	17.99	18.13	18.31	18.35	18.26	18.13	18.13
92.40 CFS	18.13	18.13	18.34	18.35	18.22	18.13	20.36	27.86
100.80 CFS	27.93	32.20	32.28	32.28	32.28	35.49	40.02	40.02
109.20 CFS	40.02	40.10	48.47	49.31	57.79	63.46	70.79	95.50
117.60 CFS	105	759	772	914	951	690	323	304
126.00 CFS	127	125	74	69	57	49	46	38
134.40 CFS	37.30	28.93	28.75	28.75	28.75	26.00	22.11	22.33
142.80 CFS	24.32	24.30	18.31	17.69	17.69	17.69	18.15	19.90
151.20 CFS	19.81	17.72	17.69	17.69	17.69	16.79	15.48	15.26
159.60 CFS	13.28	13.27	13.27	13.27	14.67	15.48	14.97	13.27
168.00 CFS	13.19	11.12	11.06	9.32	8.84	9.72	11.06	10.84
176.40 CFS	8.85	8.85	10.86	11.06	11.06	11.06	10.52	8.85
184.80 CFS	8.93	10.98	11.06	11.06	11.06	10.18	8.84	8.84
193.20 CFS	8.84	8.84	6.78	6.63	7.97	8.84	8.33	6.63
201.60 CFS	6.69	8.79	8.84	7.11	6.63	7.54	8.85	8.63

210.00 CFS	6.64	6.64	8.68	8.84	7.52	6.63	6.63	6.63
218.40 CFS	6.63	4.45	4.42	6.18	6.63	5.71	4.42	4.64
226.80 CFS	6.62	6.61	4.64	4.42	4.42	4.42	4.91	6.63
235.20 CFS	6.58	4.47	4.42	6.16	6.63	5.72	4.42	4.01
243.60 CFS	.00							

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS) .
1.67 WATERSHED INCHES; 8917 CFS-HRS; 736.9 ACRE-FEET.

OPERATION ADDHYD XSECTION 76

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
121.69	2179.1	(NULL)
142.76	60.0	(NULL)
150.79	48.2	(NULL)
165.37	37.0	(NULL)
174.85	26.3	(NULL)
181.52	27.4	(NULL)
188.72	27.5	(NULL)
198.77	20.6	(NULL)
203.17	20.8	(NULL)
208.44	20.8	(NULL)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 1
MAIN TIME INCREMENT = 1.050 hr, DRAINAGE AREA = 20.57 SQ.MI.

HRS								
.00 CFS	.00	3.38	3.73	9.09	10.89	12.68	13.78	14.08
8.40 CFS	13.94	13.95	14.17	14.19	15.38	16.17	16.59	16.95
16.80 CFS	17.08	17.44	17.49	17.33	17.28	17.34	17.50	17.62
25.20 CFS	18.33	18.43	18.97	19.11	19.03	18.93	18.87	18.80
33.60 CFS	18.78	18.77	18.77	19.05	19.14	19.09	18.93	18.89
42.00 CFS	18.81	18.78	18.77	18.77	18.99	19.14	20.12	23.24
50.40 CFS	23.72	24.83	25.24	25.35	25.38	25.39	25.39	25.39
58.80 CFS	25.39	25.39	25.39	25.39	25.39	25.39	25.39	25.39
67.20 CFS	25.39	25.39	25.39	25.67	25.76	28.03	31.34	32.26
75.60 CFS	33.58	34.05	34.50	34.59	34.49	34.39	34.33	34.26
84.00 CFS	34.49	40.94	41.73	44.32	45.29	45.50	45.41	45.39
92.40 CFS	45.31	45.29	45.60	45.65	45.54	45.44	49.02	61.04
100.80 CFS	63.04	74.17	76.49	79.20	80.21	85.77	93.38	95.41
109.20 CFS	98	100	113	116	134	146	164	208
117.60 CFS	240	1281	1387	1968	2176	1861	1310	1133
126.00 CFS	612	496	293	234	174	144	129	107
134.40 CFS	102	83	80	74	73	67	61	59
142.80 CFS	59.99	59.37	50.82	49.42	46.17	44.75	45.13	47.77
151.20 CFS	48.04	45.80	45.79	44.75	44.34	42.72	40.57	39.58
159.60 CFS	35.61	34.94	33.73	33.30	35.42	36.80	36.79	34.76
168.00 CFS	34.42	30.24	29.51	25.50	24.08	24.42	25.98	26.03
176.40 CFS	23.70	23.63	25.80	25.97	26.98	27.42	26.68	24.01
184.80 CFS	23.71	25.99	26.00	27.02	27.44	26.09	23.93	23.37
193.20 CFS	22.51	22.19	18.86	18.35	19.46	20.50	20.24	18.17
201.60 CFS	18.08	20.48	20.46	18.73	18.19	18.82	20.45	20.49

210.00 CFS	18.16	18.12	20.31	20.45	19.28	18.22	17.55	16.88
218.40 CFS	16.62	13.16	12.80	14.45	14.92	14.25	12.70	12.65
226.80 CFS	14.93	14.96	12.89	12.68	11.69	11.23	11.94	14.61
235.20 CFS	14.93	12.71	12.66	14.39	14.90	14.29	12.71	11.55
243.60 CFS	4.48	3.46	1.16	.32				

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.67 WATERSHED INCHES; 22124 CFS-HRS; 1828.3 ACRE-FEET.

--- XSECTION 76, ALTERNATE 1, STORM 1, HYDROGRAPH ADDED TO READHD FILE ---

*** MESSAGE - STRUCTURE 1, USER ENTERED STARTING ELEVATION (1193.0 FEET) CAN ADD .118 INCHES OF RUNOFF TO THE OUTFLOW HYDROGRAPH VOLUME.***

*** MESSAGE - RESERVOIR ROUTING, STRUCTURE 1, TRUNCATED AT 400 POINTS WITH 676.12 AC-FT (.05 WATERSHED INCHES) FLOOD STORAGE REMAINING IN RESERVOIR AT ELEV. 1200.63. ***

OPERATION RESVOR STRUCTURE 1

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
144.30	55.4	1205.68

*** WARNING - STRUCTURE 1, HYDROGRAPH VOLUME TRUNCATED AT 33 CFS
RESVOR (59. % OF MAX. HYDROGRAPH COORDINATE)
MAIN TIME INCREMENT TOO SMALL. ***

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 1
MAIN TIME INCREMENT = 1.050 hr, DRAINAGE AREA = 20.57 SQ.MI.

HRS								
.00 CFS	7.29	7.26	7.25	7.24	7.26	7.28	7.30	7.33
8.40 CFS	7.36	7.39	7.42	7.46	7.49	7.53	7.57	7.61
16.80 CFS	7.65	7.69	7.74	7.78	7.83	7.87	7.91	7.96
25.20 CFS	8.00	8.05	8.10	8.15	8.20	8.25	8.29	8.34
33.60 CFS	8.39	8.44	8.48	8.53	8.58	8.63	8.67	8.72
42.00 CFS	8.77	8.81	8.86	8.90	8.95	8.99	9.04	9.10
50.40 CFS	9.16	9.23	9.30	9.38	9.45	9.52	9.59	9.67
58.80 CFS	9.74	9.81	9.88	9.95	10.02	10.09	10.16	10.23
67.20 CFS	10.30	10.37	10.43	10.50	10.57	10.65	10.73	10.83
75.60 CFS	10.93	11.03	11.14	11.24	11.35	11.46	11.56	11.66
84.00 CFS	11.77	11.88	12.02	12.16	12.31	12.46	12.61	12.76
92.40 CFS	12.90	13.05	13.20	13.34	13.49	13.64	13.79	13.98
100.80 CFS	14.19	14.44	14.72	15.00	15.30	15.61	15.94	16.30
109.20 CFS	16.66	17.04	17.44	17.88	18.37	18.92	19.54	20.30
117.60 CFS	21.23	24.58	29.24	34.17	39.98	44.81	48.45	50.69
126.00 CFS	52.26	53.22	53.88	54.28	54.56	54.76	54.92	55.04
134.40 CFS	55.13	55.20	55.25	55.30	55.33	55.36	55.38	55.38
142.80 CFS	55.39	55.40	55.40	55.39	55.38	55.36	55.34	55.32
151.20 CFS	55.31	55.29	55.27	55.25	55.23	55.21	55.18	55.16
159.60 CFS	55.12	55.08	55.04	55.00	54.96	54.93	54.89	54.86
168.00 CFS	54.82	54.77	54.73	54.67	54.62	54.56	54.50	54.45

176.40 CFS	54.39	54.33	54.28	54.22	54.17	54.12	54.07	54.01
184.80 CFS	53.95	53.90	53.84	53.79	53.74	53.69	53.64	53.58
193.20 CFS	53.52	53.46	53.40	53.33	53.26	53.20	53.14	53.07
201.60 CFS	53.01	52.94	52.88	52.82	52.75	52.68	52.62	52.56
210.00 CFS	52.50	52.43	52.37	52.31	52.24	52.18	52.11	52.05
218.40 CFS	51.98	51.91	51.83	51.76	51.69	51.62	51.55	51.47
226.80 CFS	51.40	51.33	51.26	51.19	51.11	51.04	50.96	50.89
235.20 CFS	50.82	50.75	50.68	50.60	50.54	50.47	50.40	50.32
243.60 CFS	50.24	50.15	50.06	49.97	49.87	49.78	49.68	49.59
252.00 CFS	49.49	49.40	49.30	49.21	49.11	49.02	48.93	48.83
260.40 CFS	48.74	48.65	48.55	48.46	48.37	48.28	48.18	48.09
268.80 CFS	48.00	47.88	47.77	47.65	47.53	47.42	47.30	47.18
277.20 CFS	47.07	46.95	46.84	46.73	46.61	46.50	46.38	46.27
285.60 CFS	46.16	46.04	45.93	45.82	45.71	45.60	45.49	45.37
294.00 CFS	45.26	45.15	45.04	44.93	44.82	44.71	44.60	44.50
302.40 CFS	44.39	44.28	44.17	44.06	43.95	43.85	43.74	43.63
310.80 CFS	43.53	43.42	43.31	43.21	43.10	43.00	42.89	42.79
319.20 CFS	42.68	42.58	42.48	42.37	42.27	42.16	42.06	41.96
327.60 CFS	41.86	41.75	41.65	41.55	41.45	41.35	41.25	41.15
336.00 CFS	41.05	40.95	40.85	40.75	40.65	40.55	40.45	40.35
344.40 CFS	40.25	40.15	40.05	39.96	39.86	39.76	39.66	39.57
352.80 CFS	39.47	39.37	39.28	39.18	39.09	38.99	38.90	38.80
361.20 CFS	38.71	38.60	38.48	38.37	38.25	38.14	38.02	37.91
369.60 CFS	37.80	37.68	37.57	37.46	37.34	37.23	37.12	37.01
378.00 CFS	36.90	36.79	36.68	36.57	36.46	36.35	36.24	36.13
386.40 CFS	36.03	35.92	35.81	35.70	35.60	35.49	35.38	35.28
394.80 CFS	35.17	35.07	34.96	34.86	34.75	34.65	34.55	34.44
403.20 CFS	34.34	34.24	34.13	34.03	33.93	33.83	33.73	33.63
411.60 CFS	33.53	33.43	33.33	33.23	33.13	33.03	32.93	32.83

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.14 WATERSHED INCHES; 15163 CFS-HRS; 1253.0 ACRE-FEET.

--- STRUCTURE 1, ALTERNATE 1, STORM 1, HYDROGRAPH ADDED TO READHD FILE ---

EXECUTIVE CONTROL ENDCMP COMPUTATIONS COMPLETED FOR PASS 1

EXECUTIVE CONTROL COMPUT FROM XSECTION 1 TO STRUCTURE 1
STARTING TIME = .00 RAIN DEPTH = 1.00 RAIN DURATION = 1.00
ANT. RUNOFF COND. = 2 MAIN TIME INCREMENT = 1.050 HOURS
ALTERNATE NO. = 2 STORM NO. = 1 RAIN TABLE NO. = 1

OPERATION RUNOFF XSECTION 1

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
121.40	290.4	(RUNOFF)
138.08	8.7	(RUNOFF)
143.29	7.3	(RUNOFF)
150.61	6.0	(RUNOFF)
164.99	4.6	(RUNOFF)
174.63	3.3	(RUNOFF)
179.55	3.3 *	(RUNOFF)
187.64	3.3	(RUNOFF)
192.22	2.6	(RUNOFF)
208.25	2.7	(RUNOFF)

* FIRST POINT OF FLAT PEAK

HYDROGRAPH POINTS FOR ALTERNATE = 2, STORM = 1
MAIN TIME INCREMENT = 1.050 hr, DRAINAGE AREA = 2.46 SQ.MI.

HRS									
.00	CFS	.00	.66	.66	1.45	1.65	1.68	1.72	1.71
8.40	CFS	1.65	1.65	1.71	1.72	1.92	2.05	2.05	2.05
16.80	CFS	2.05	2.11	2.11	2.06	2.05	2.08	2.11	2.13
25.20	CFS	2.25	2.25	2.31	2.31	2.27	2.25	2.25	2.25
33.60	CFS	2.25	2.25	2.25	2.30	2.31	2.29	2.25	2.25
42.00	CFS	2.25	2.25	2.25	2.25	2.29	2.31	2.48	3.04
50.40	CFS	3.04	3.04	3.04	3.04	3.04	3.04	3.04	3.04
58.80	CFS	3.04	3.04	3.04	3.04	3.04	3.04	3.04	3.04
67.20	CFS	3.04	3.04	3.04	3.09	3.11	3.51	4.10	4.10
75.60	CFS	4.10	4.10	4.16	4.16	4.12	4.10	4.10	4.10
84.00	CFS	4.11	5.40	5.42	5.47	5.48	5.46	5.42	5.42
92.40	CFS	5.42	5.42	5.48	5.48	5.44	5.42	6.18	8.33
100.80	CFS	8.41	9.58	9.65	9.65	9.65	10.62	11.96	11.96
109.20	CFS	11.96	12.01	14.43	14.74	17.28	18.96	21.33	28.55
117.60	CFS	33.56	229.35	230.66	273.71	284.13	207.45	96.47	89.78
126.00	CFS	38.02	37.66	22.09	20.48	16.69	14.54	13.75	11.23
134.40	CFS	11.10	8.71	8.59	8.59	8.59	7.72	6.61	6.68
142.80	CFS	7.27	7.25	5.50	5.29	5.29	5.29	5.46	5.95
151.20	CFS	5.91	5.31	5.29	5.29	5.29	5.02	4.63	4.55
159.60	CFS	3.96	3.96	3.96	3.96	4.38	4.63	4.48	3.96
168.00	CFS	3.95	3.32	3.30	2.79	2.64	2.93	3.30	3.22
176.40	CFS	2.65	2.64	3.25	3.30	3.30	3.30	3.13	2.64
184.80	CFS	2.68	3.27	3.30	3.30	3.30	3.03	2.64	2.64
193.20	CFS	2.64	2.63	2.05	1.98	2.38	2.64	2.49	1.98
201.60	CFS	1.99	2.64	2.64	2.11	1.98	2.26	2.64	2.56
210.00	CFS	1.99	1.98	2.58	2.64	2.22	1.98	1.98	1.98
218.40	CFS	1.95	1.35	1.32	1.83	1.98	1.70	1.32	1.39
226.80	CFS	1.98	1.97	1.39	1.32	1.32	1.32	1.49	1.98
235.20	CFS	1.95	1.34	1.32	1.85	1.98	1.72	1.32	1.17
243.60	CFS	.00							

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.68 WATERSHED INCHES; 2671 CFS-HRS; 220.7 ACRE-FEET.

*** WARNING - MAIN TIME INCREMENT (1.050) IS GREATER THAN 50% OF THE
TIME OF CONCENTRATION (.85) FOR SUBWATERSHED XSECTION 1.
THIS WILL REDUCE THE COMPUTED PEAK BY ABOUT -2.1%. ***

OPERATION REACH XSECTION 5

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
122.55	283.3	2.23
144.42	7.4	.39
151.83	5.9	.36
166.22	4.6	.32
175.87	3.3	.23
182.21	3.3	.23
189.54	3.3	.23
214.00	2.6	.18
240.45	1.9	.14

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.62 WATERSHED INCHES; 2576 CFS-HRS; 212.9 ACRE-FEET.

OPERATION REACH XSECTION 10

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
123.70	277.3	3.72
145.52	7.3	.92
153.01	5.9	.88
167.44	4.5	.78
177.05	3.2	.56
183.33	3.3	.57
190.64	3.3	.57
215.18	2.6	.44
241.65	1.9	.33

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.66 WATERSHED INCHES; 2642 CFS-HRS; 218.3 ACRE-FEET.

OPERATION RUNOFF XSECTION 2

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
78.23	4.0	(RUNOFF)
121.33	285.1	(RUNOFF)
137.49	8.3	(RUNOFF)
143.33	7.3	(RUNOFF)
154.35	5.1	(RUNOFF)
164.80	4.5	(RUNOFF)
174.61	3.2	(RUNOFF)
181.13	3.2	(RUNOFF)
188.48	3.2	(RUNOFF)
192.69	2.6	(RUNOFF)

HYDROGRAPH POINTS FOR ALTERNATE = 2, STORM = 1
MAIN TIME INCREMENT = 1.050 hr, DRAINAGE AREA = 2.38 SQ.MI.

HRS								
.00 CFS	.00	.64	.64	1.49	1.60	1.63	1.66	1.65
8.40 CFS	1.60	1.60	1.66	1.66	1.90	1.98	1.98	1.98
16.80 CFS	1.99	2.05	2.05	1.99	1.98	2.01	2.05	2.06
25.20 CFS	2.17	2.17	2.23	2.24	2.19	2.17	2.17	2.17
33.60 CFS	2.17	2.17	2.17	2.23	2.24	2.20	2.17	2.17
42.00 CFS	2.17	2.17	2.17	2.17	2.22	2.24	2.46	2.94
50.40 CFS	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94
58.80 CFS	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94
67.20 CFS	2.94	2.94	2.94	3.00	3.00	3.49	3.96	3.96
75.60 CFS	3.96	3.96	4.03	4.03	3.98	3.96	3.96	3.96
84.00 CFS	4.03	5.24	5.24	5.30	5.31	5.27	5.24	5.24
92.40 CFS	5.24	5.24	5.30	5.31	5.26	5.24	5.96	8.06
100.80 CFS	8.11	9.32	9.33	9.33	9.33	10.46	11.57	11.57
109.20 CFS	11.57	11.57	14.21	14.26	17.19	18.35	21.32	27.62
117.60 CFS	36.73	223.11	223.11	269.22	274.90	177.77	93.34	85.77
126.00 CFS	36.44	36.28	20.57	19.82	15.53	14.06	13.20	10.87
134.40 CFS	10.74	8.33	8.31	8.31	8.31	7.35	6.39	6.48
142.80 CFS	7.03	7.03	5.17	5.11	5.11	5.11	5.32	5.75
151.20 CFS	5.73	5.11	5.11	5.11	5.11	4.77	4.48	4.39
159.60 CFS	3.84	3.84	3.84	3.84	4.32	4.48	4.29	3.84
168.00 CFS	3.80	3.20	3.20	2.63	2.56	2.88	3.20	3.12
176.40 CFS	2.56	2.56	3.17	3.20	3.20	3.20	2.99	2.56
184.80 CFS	2.57	3.20	3.20	3.20	3.20	2.85	2.56	2.56
193.20 CFS	2.56	2.55	1.94	1.92	2.41	2.56	2.37	1.92
201.60 CFS	1.96	2.56	2.56	2.00	1.92	2.24	2.56	2.47
210.00 CFS	1.92	1.92	2.53	2.56	2.10	1.92	1.92	1.92
218.40 CFS	1.91	1.28	1.28	1.85	1.92	1.58	1.28	1.37
226.80 CFS	1.92	1.91	1.29	1.28	1.28	1.28	1.48	1.92
235.20 CFS	1.88	1.28	1.28	1.84	1.92	1.59	1.28	1.10
243.60 CFS	.00							

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.67 WATERSHED INCHES; 2561 CFS-HRS; 211.6 ACRE-FEET.

*** WARNING - MAIN TIME INCREMENT (1.050) IS GREATER THAN 50% OF THE
TIME OF CONCENTRATION (.73) FOR SUBWATERSHED XSECTION 2.
THIS WILL REDUCE THE COMPUTED PEAK BY ABOUT -3.7%. ***

OPERATION ADDHYD XSECTION 12

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
121.80	488.3	(NULL)
145.48	12.4	(NULL)
150.94	11.1	(NULL)
153.00	11.0	(NULL)
165.72	8.5	(NULL)
178.68	6.0	(NULL)
181.69	6.4	(NULL)
186.07	6.0	(NULL)
188.84	6.4	(NULL)
212.28	4.7	(NULL)

HYDROGRAPH POINTS FOR ALTERNATE = 2, STORM = 1
MAIN TIME INCREMENT = 1.050 hr, DRAINAGE AREA = 4.84 SQ.MI.

HRS								
.00 CFS	.00	.64	.64	1.93	2.20	2.81	3.18	3.29
8.40 CFS	3.29	3.30	3.33	3.32	3.59	3.69	3.84	3.97
16.80 CFS	4.02	4.09	4.09	4.08	4.09	4.09	4.10	4.13
25.20 CFS	4.27	4.29	4.44	4.47	4.47	4.48	4.46	4.43
33.60 CFS	4.42	4.42	4.42	4.48	4.48	4.49	4.48	4.47
42.00 CFS	4.43	4.42	4.42	4.42	4.47	4.48	4.74	5.24
50.40 CFS	5.36	5.78	5.93	5.97	5.98	5.98	5.98	5.98
58.80 CFS	5.98	5.98	5.98	5.98	5.98	5.98	5.98	5.98
67.20 CFS	5.98	5.98	5.98	6.04	6.04	6.56	7.06	7.33
75.60 CFS	7.83	8.00	8.11	8.12	8.12	8.12	8.10	8.07
84.00 CFS	8.13	9.34	9.35	10.28	10.61	10.70	10.71	10.70
92.40 CFS	10.67	10.66	10.72	10.72	10.72	10.72	11.42	13.48
100.80 CFS	14.04	16.88	17.51	18.48	18.85	20.07	21.21	21.87
109.20 CFS	23.01	23.40	26.14	26.24	30.83	32.77	37.69	45.80
117.60 CFS	57	249	254	434	488	433	369	316
126.00 CFS	175	139	79	63	44	37	32	27
134.40 CFS	25.04	20.52	19.70	17.87	17.16	16.00	15.00	14.49
142.80 CFS	14.08	13.80	12.26	12.32	11.17	10.62	10.66	11.05
151.20 CFS	11.13	10.89	10.99	10.61	10.46	10.07	9.76	9.50
159.60 CFS	8.61	8.45	8.01	7.85	8.30	8.44	8.54	8.34
168.00 CFS	8.30	7.34	7.19	6.17	5.92	5.85	5.93	5.98
176.40 CFS	5.72	5.77	6.01	5.89	6.26	6.43	6.28	5.86
184.80 CFS	5.76	6.01	5.91	6.28	6.44	6.14	5.86	5.68
193.20 CFS	5.35	5.23	4.59	4.55	4.66	4.61	4.63	4.44
201.60 CFS	4.46	4.71	4.59	4.43	4.51	4.51	4.62	4.66
210.00 CFS	4.42	4.47	4.70	4.59	4.50	4.49	4.26	4.01
218.40 CFS	3.92	3.27	3.24	3.40	3.30	3.25	3.17	3.13
226.80 CFS	3.38	3.32	3.08	3.20	2.85	2.67	2.81	3.24
235.20 CFS	3.32	3.09	3.20	3.37	3.29	3.28	3.18	2.88

243.60 CFS 1.47 1.26 .40

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.67 WATERSHED INCHES; 5202 CFS-HRS; 429.9 ACRE-FEET.

OPERATION DIVERT XSECTION 12
OUTPUT #1 HYDROGRAPH

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
121.80	488.3	(DIVERT)
145.48	12.4	(DIVERT)
150.94	11.1	(DIVERT)
153.00	11.0	(DIVERT)
165.72	8.5	(DIVERT)
178.68	6.0	(DIVERT)
181.69	6.4	(DIVERT)
186.07	6.0	(DIVERT)
188.84	6.4	(DIVERT)
212.28	4.7	(DIVERT)

HYDROGRAPH POINTS FOR ALTERNATE = 2, STORM = 1
MAIN TIME INCREMENT = 1.050 hr, DRAINAGE AREA = 4.84 SQ.MI.

HRS								
.00 CFS	.00	.64	.64	1.93	2.20	2.81	3.18	3.29
8.40 CFS	3.29	3.30	3.33	3.32	3.59	3.69	3.84	3.97
16.80 CFS	4.02	4.09	4.09	4.08	4.09	4.09	4.10	4.13
25.20 CFS	4.27	4.29	4.44	4.47	4.47	4.48	4.46	4.43
33.60 CFS	4.42	4.42	4.42	4.48	4.48	4.49	4.48	4.47
42.00 CFS	4.43	4.42	4.42	4.42	4.47	4.48	4.74	5.24
50.40 CFS	5.36	5.78	5.93	5.97	5.98	5.98	5.98	5.98
58.80 CFS	5.98	5.98	5.98	5.98	5.98	5.98	5.98	5.98
67.20 CFS	5.98	5.98	5.98	6.04	6.04	6.56	7.06	7.33
75.60 CFS	7.83	8.00	8.11	8.12	8.12	8.12	8.10	8.07
84.00 CFS	8.13	9.34	9.35	10.28	10.61	10.70	10.71	10.70
92.40 CFS	10.67	10.66	10.72	10.72	10.72	10.72	11.42	13.48
100.80 CFS	14.04	16.88	17.51	18.48	18.85	20.07	21.21	21.87
109.20 CFS	23.01	23.40	26.14	26.24	30.83	32.77	37.69	45.80
117.60 CFS	57	249	254	434	488	433	369	316
126.00 CFS	175	139	79	63	44	37	32	27
134.40 CFS	25.04	20.52	19.70	17.87	17.16	16.00	15.00	14.49
142.80 CFS	14.08	13.80	12.26	12.32	11.17	10.62	10.66	11.05
151.20 CFS	11.13	10.89	10.99	10.61	10.46	10.07	9.76	9.50
159.60 CFS	8.61	8.45	8.01	7.85	8.30	8.44	8.54	8.34
168.00 CFS	8.30	7.34	7.19	6.17	5.92	5.85	5.93	5.98
176.40 CFS	5.72	5.77	6.01	5.89	6.26	6.43	6.28	5.86
184.80 CFS	5.76	6.01	5.91	6.28	6.44	6.14	5.86	5.68
193.20 CFS	5.35	5.23	4.59	4.55	4.66	4.61	4.63	4.44
201.60 CFS	4.46	4.71	4.59	4.43	4.51	4.51	4.62	4.66
210.00 CFS	4.42	4.47	4.70	4.59	4.50	4.49	4.26	4.01
218.40 CFS	3.92	3.27	3.24	3.40	3.30	3.25	3.17	3.13
226.80 CFS	3.38	3.32	3.08	3.20	2.85	2.67	2.81	3.24

235.20 CFS	3.32	3.09	3.20	3.37	3.29	3.28	3.18	2.88
243.60 CFS	1.47	1.26	.40					

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.67 WATERSHED INCHES; 5202 CFS-HRS; 429.9 ACRE-FEET.

OUTPUT #2 DIVERTED HYDROGRAPH (XSECTION 200)

*** MESSAGE - HYDROGRAPH CONTAINS NO FLOW ***

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
237 CFS-HRS; 429.9 ACRE-FEET.

*** WARNING - ROUTING COEFFICIENT (C) EQUALS 1.0,
CONSIDER SMALLER MAIN TIME INCREMENT FOR XSECTION 20. ***

OPERATION REACH XSECTION 20

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
121.80	488.3	2.45
145.48	12.4	.13
150.94	11.1	.11
153.00	11.0	.11
165.72	8.5	.09
178.68	6.0	.06
181.69	6.4	.06
186.07	6.0	.06
188.84	6.4	.07
212.28	4.7	.05

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.67 WATERSHED INCHES; 5202 CFS-HRS; 429.9 ACRE-FEET.

*** WARNING - ROUTING COEFFICIENT (C) EQUALS 1.0,
CONSIDER SMALLER MAIN TIME INCREMENT FOR XSECTION 25. ***

OPERATION REACH XSECTION 25

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
121.80	488.3	1.54
145.48	12.4	.08
150.94	11.1	.07
153.00	11.0	.07
165.72	8.5	.05
178.68	6.0	.04
181.69	6.4	.04
186.07	6.0	.04
188.84	6.4	.04
212.28	4.7	.03

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.67 WATERSHED INCHES; 5202 CFS-HRS; 429.9 ACRE-FEET.

OPERATION RUNOFF XSECTION 3

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
121.39	461.9	(RUNOFF)
126.52	63.0	(RUNOFF)
138.08	13.8	(RUNOFF)
143.32	11.7	(RUNOFF)
150.67	9.6	(RUNOFF)
154.88	8.5	(RUNOFF)
165.01	7.4	(RUNOFF)
174.70	5.3	(RUNOFF)
181.12	5.2	(RUNOFF)
186.90	5.2 *	(RUNOFF)

* FIRST POINT OF FLAT PEAK

HYDROGRAPH POINTS FOR ALTERNATE = 2, STORM = 1
MAIN TIME INCREMENT = 1.050 hr, DRAINAGE AREA = 3.94 SQ.MI.

HRS									
.00	CFS	.00	1.05	1.05	2.37	2.62	2.67	2.73	2.72
8.40	CFS	2.62	2.62	2.72	2.73	3.06	3.25	3.25	3.25
16.80	CFS	3.26	3.36	3.36	3.27	3.25	3.30	3.36	3.38
25.20	CFS	3.57	3.57	3.67	3.67	3.61	3.57	3.57	3.57
33.60	CFS	3.57	3.57	3.57	3.66	3.67	3.63	3.57	3.57
42.00	CFS	3.57	3.57	3.57	3.57	3.64	3.67	3.91	4.83
50.40	CFS	4.83	4.83	4.83	4.83	4.83	4.83	4.83	4.83
58.80	CFS	4.83	4.83	4.83	4.83	4.83	4.83	4.83	4.83
67.20	CFS	4.83	4.83	4.83	4.92	4.93	5.55	6.51	6.51
75.60	CFS	6.51	6.51	6.61	6.61	6.55	6.51	6.51	6.51
84.00	CFS	6.54	8.59	8.61	8.70	8.71	8.67	8.61	8.61
92.40	CFS	8.61	8.61	8.71	8.71	8.65	8.61	9.50	13.23
100.80	CFS	13.26	15.31	15.33	15.33	15.33	16.76	19.00	19.00
109.20	CFS	19.00	19.00	23.26	23.41	27.69	30.13	33.19	45.35
117.60	CFS	49	364	366	437	451	331	153	147
126.00	CFS	59.84	59.84	34.19	32.54	26.67	23.10	22.09	17.85

134.40 CFS	17.77	13.69	13.65	13.65	13.65	12.40	10.50	10.57
142.80 CFS	11.55	11.54	8.50	8.40	8.40	8.40	8.60	9.45
151.20 CFS	9.44	8.40	8.40	8.40	8.40	7.98	7.35	7.29
159.60 CFS	6.30	6.30	6.30	6.30	6.95	7.35	7.14	6.30
168.00 CFS	6.28	5.26	5.25	4.39	4.20	4.62	5.25	5.17
176.40 CFS	4.20	4.20	5.22	5.25	5.25	5.25	5.05	4.20
184.80 CFS	4.20	5.25	5.25	5.25	5.25	4.83	4.20	4.20
193.20 CFS	4.20	4.20	3.21	3.15	3.81	4.20	3.99	3.15
201.60 CFS	3.17	4.19	4.20	3.33	3.15	3.57	4.20	4.12
210.00 CFS	3.15	3.15	4.16	4.20	3.54	3.15	3.15	3.15
218.40 CFS	3.14	2.10	2.10	2.98	3.15	2.74	2.10	2.16
226.80 CFS	3.15	3.15	2.16	2.10	2.10	2.10	2.31	3.15
235.20 CFS	3.13	2.11	2.10	2.98	3.15	2.73	2.10	1.94
243.60 CFS	.00							

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.67 WATERSHED INCHES; 4251 CFS-HRS; 351.3 ACRE-FEET.

*** WARNING - MAIN TIME INCREMENT (1.050) IS GREATER THAN 50% OF THE
TIME OF CONCENTRATION (.88) FOR SUBWATERSHED XSECTION 3.
THIS WILL REDUCE THE COMPUTED PEAK BY ABOUT -2.3%. ***

OPERATION REACH XSECTION 30

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
122.60	444.1	2.56
144.45	11.7	.88
151.93	9.4	.85
166.33	7.2	.81
175.98	5.2	.77
182.27	5.3	.77
189.57	5.3	.77
204.49	4.2	.64
209.58	4.1	.64
214.02	4.1	.64

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.61 WATERSHED INCHES; 4102 CFS-HRS; 339.0 ACRE-FEET.

OPERATION REACH XSECTION 5

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
123.73	437.4	2.71
145.53	11.6	.45
153.06	9.4	.42
167.50	7.2	.38
177.12	5.2	.35
183.39	5.2	.35
190.65	5.3	.35
205.63	4.1	.29
210.71	4.1	.29
215.18	4.1	.29

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.65 WATERSHED INCHES; 4198 CFS-HRS; 347.0 ACRE-FEET.

*** WARNING - ROUTING COEFFICIENT (C) EQUALS 1.0,
CONSIDER SMALLER MAIN TIME INCREMENT FOR XSECTION 25. ***

OPERATION REACH XSECTION 25

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
123.73	437.4	1.44
145.53	11.6	.07
153.06	9.4	.06
167.50	7.2	.05
177.12	5.2	.03
183.39	5.2	.03
190.65	5.3	.03
205.63	4.1	.03
210.71	4.1	.03
215.18	4.1	.03

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.65 WATERSHED INCHES; 4198 CFS-HRS; 347.0 ACRE-FEET.

OPERATION RUNOFF XSECTION 4

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
121.36	245.1	(RUNOFF)
138.08	7.3	(RUNOFF)
143.27	6.1	(RUNOFF)
154.88	4.5	(RUNOFF)
164.96	3.9	(RUNOFF)
193.72	2.2	(RUNOFF)
198.49	2.2	(RUNOFF)
203.17	2.3	(RUNOFF)
208.22	2.2	(RUNOFF)
212.72	2.2	(RUNOFF)

HYDROGRAPH POINTS FOR ALTERNATE = 2, STORM = 1
MAIN TIME INCREMENT = 1.050 hr, DRAINAGE AREA = 2.06 SQ.MI.

HRS									
.00	CFS	.00	.55	.55	1.25	1.38	1.41	1.44	1.43
8.40	CFS	1.38	1.38	1.43	1.44	1.63	1.72	1.72	1.72
16.80	CFS	1.72	1.77	1.77	1.72	1.72	1.74	1.77	1.78
25.20	CFS	1.88	1.88	1.93	1.94	1.90	1.88	1.88	1.88
33.60	CFS	1.88	1.88	1.88	1.93	1.94	1.91	1.88	1.88
42.00	CFS	1.88	1.88	1.88	1.88	1.92	1.94	2.09	2.55
50.40	CFS	2.55	2.55	2.55	2.55	2.55	2.55	2.55	2.55
58.80	CFS	2.55	2.55	2.55	2.55	2.55	2.55	2.55	2.55
67.20	CFS	2.55	2.55	2.55	2.59	2.60	2.97	3.43	3.43
75.60	CFS	3.43	3.43	3.48	3.49	3.45	3.43	3.43	3.43
84.00	CFS	3.47	4.54	4.54	4.58	4.59	4.57	4.54	4.54
92.40	CFS	4.54	4.54	4.59	4.59	4.56	4.54	5.24	6.97
100.80	CFS	6.98	8.08	8.08	8.08	8.08	9.01	10.02	10.02
109.20	CFS	10.02	10.02	12.18	12.34	14.81	15.88	18.22	23.90
117.60	CFS	29.21	189.88	193.12	230.82	237.94	161.93	80.79	74.74
126.00	CFS	31.54	31.45	18.30	17.15	13.66	12.17	11.39	9.41
134.40	CFS	9.29	7.25	7.19	7.19	7.19	6.41	5.53	5.60
142.80	CFS	6.09	6.06	4.55	4.43	4.43	4.43	4.57	4.98
151.20	CFS	4.95	4.44	4.43	4.43	4.43	4.18	3.87	3.80
159.60	CFS	3.32	3.32	3.32	3.32	3.68	3.87	3.75	3.32
168.00	CFS	3.29	2.77	2.77	2.31	2.21	2.46	2.77	2.70
176.40	CFS	2.21	2.21	2.75	2.77	2.77	2.77	2.62	2.21
184.80	CFS	2.23	2.77	2.77	2.77	2.77	2.51	2.21	2.21
193.20	CFS	2.21	2.21	1.68	1.66	2.03	2.21	2.06	1.66
201.60	CFS	1.66	2.21	2.21	1.75	1.66	1.92	2.21	2.14
210.00	CFS	1.66	1.66	2.18	2.21	1.83	1.66	1.66	1.66
218.40	CFS	1.64	1.12	1.11	1.57	1.66	1.39	1.11	1.17
226.80	CFS	1.66	1.66	1.15	1.11	1.11	1.11	1.26	1.66
235.20	CFS	1.63	1.12	1.11	1.57	1.66	1.40	1.11	.97
243.60	CFS	.00							

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.67 WATERSHED INCHES; 2219 CFS-HRS; 183.4 ACRE-FEET.

*** WARNING - MAIN TIME INCREMENT (1.050) IS GREATER THAN 50% OF THE
TIME OF CONCENTRATION (.79) FOR SUBWATERSHED XSECTION 4.
THIS WILL REDUCE THE COMPUTED PEAK BY ABOUT -3.0%. ***

OPERATION ADDHYD XSECTION 34

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
80.58	10.0	(NULL)
122.26	578.6	(NULL)
145.46	16.1	(NULL)
153.05	13.8	(NULL)
166.39	10.5	(NULL)
189.08	7.9	(NULL)
214.94	5.8	(NULL)
229.70	4.2	(NULL)
237.42	4.1	(NULL)
241.03	4.1	(NULL)

HYDROGRAPH POINTS FOR ALTERNATE = 2, STORM = 1
MAIN TIME INCREMENT = 1.050 hr, DRAINAGE AREA = 6.00 SQ.MI.

HRS								
.00 CFS	.00	.55	.55	1.92	2.32	3.27	3.82	4.01
8.40 CFS	4.07	4.09	4.09	4.07	4.32	4.43	4.65	4.86
16.80 CFS	4.94	5.01	5.02	5.04	5.06	5.04	5.04	5.07
25.20 CFS	5.21	5.24	5.43	5.48	5.53	5.54	5.51	5.47
33.60 CFS	5.46	5.45	5.45	5.50	5.51	5.53	5.54	5.52
42.00 CFS	5.48	5.46	5.45	5.45	5.49	5.51	5.70	6.20
50.40 CFS	6.37	7.02	7.27	7.34	7.37	7.37	7.37	7.37
58.80 CFS	7.37	7.37	7.37	7.37	7.37	7.37	7.37	7.37
67.20 CFS	7.37	7.37	7.37	7.42	7.43	7.86	8.35	8.75
75.60 CFS	9.53	9.82	9.96	9.99	10.02	10.03	10.00	9.96
84.00 CFS	9.98	11.05	11.07	12.43	12.97	13.17	13.22	13.21
92.40 CFS	13.17	13.15	13.20	13.20	13.23	13.24	13.90	15.60
100.80 CFS	16.16	19.87	20.90	22.53	23.14	24.26	25.32	26.26
109.20 CFS	28.06	28.73	31.10	31.32	36.53	38.78	44.23	52.66
117.60 CFS	61	230	239	481	569	564	517	445
126.00 CFS	260	203	116	88	60	49	41	35
134.40 CFS	32.39	26.91	25.52	22.51	21.34	20.20	19.22	18.46
142.80 CFS	17.40	16.85	15.81	15.88	13.99	13.18	13.07	13.40
151.20 CFS	13.48	13.56	13.77	13.18	12.93	12.60	12.28	11.93
159.60 CFS	10.94	10.71	10.00	9.73	10.01	10.18	10.46	10.46
168.00 CFS	10.44	9.37	9.14	7.96	7.58	7.19	7.13	7.21
176.40 CFS	7.20	7.33	7.28	7.07	7.64	7.90	7.84	7.45
184.80 CFS	7.35	7.29	7.06	7.66	7.91	7.73	7.45	7.19
193.20 CFS	6.68	6.49	5.91	5.86	5.60	5.49	5.66	5.66
201.60 CFS	5.66	5.67	5.47	5.59	5.75	5.54	5.51	5.60
210.00 CFS	5.60	5.73	5.66	5.46	5.66	5.74	5.41	5.01
218.40 CFS	4.85	4.28	4.25	4.05	3.87	4.09	4.11	4.02
226.80 CFS	4.02	3.87	3.96	4.15	3.59	3.32	3.40	3.77
235.20 CFS	3.87	3.95	4.15	4.02	3.86	4.09	4.11	3.80

243.60 CFS 2.36 2.07 .73 .22

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.66 WATERSHED INCHES; 6418 CFS-HRS; 530.4 ACRE-FEET.

OPERATION ADDHYD XSECTION 35

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
122.01	1061.9	(NULL)
145.47	28.5	(NULL)
153.03	24.8	(NULL)
166.06	19.0	(NULL)
175.15	13.2	(NULL)
178.35	13.3	(NULL)
181.83	14.3	(NULL)
185.71	13.3	(NULL)
188.96	14.4	(NULL)
214.86	10.3	(NULL)

HYDROGRAPH POINTS FOR ALTERNATE = 2, STORM = 1
MAIN TIME INCREMENT = 1.050 hr, DRAINAGE AREA = 10.84 SQ.MI.

HRS								
.00 CFS	.00	1.19	1.19	3.85	4.52	6.08	7.00	7.30
8.40 CFS	7.36	7.40	7.42	7.39	7.91	8.12	8.49	8.83
16.80 CFS	8.96	9.10	9.12	9.12	9.15	9.13	9.14	9.20
25.20 CFS	9.49	9.54	9.87	9.96	10.00	10.02	9.96	9.90
33.60 CFS	9.88	9.87	9.87	9.97	9.99	10.02	10.02	9.99
42.00 CFS	9.91	9.88	9.87	9.87	9.95	9.99	10.44	11.44
50.40 CFS	11.73	12.80	13.20	13.31	13.34	13.35	13.35	13.35
58.80 CFS	13.35	13.35	13.35	13.35	13.35	13.35	13.35	13.35
67.20 CFS	13.35	13.35	13.35	13.45	13.47	14.42	15.41	16.09
75.60 CFS	17.36	17.82	18.07	18.11	18.14	18.15	18.09	18.03
84.00 CFS	18.11	20.38	20.42	22.71	23.58	23.86	23.93	23.92
92.40 CFS	23.84	23.82	23.92	23.92	23.94	23.95	25.32	29.08
100.80 CFS	30.20	36.75	38.41	41.00	41.99	44.34	46.53	48.13
109.20 CFS	51.07	52.13	57.24	57.56	67.36	71.55	81.92	98.45
117.60 CFS	118	479	494	915	1058	997	886	761
126.00 CFS	436	342	195	151	104	86	73	61
134.40 CFS	57.42	47.43	45.22	40.37	38.49	36.20	34.21	32.95
142.80 CFS	31.48	30.65	28.08	28.21	25.17	23.80	23.72	24.46
151.20 CFS	24.62	24.45	24.77	23.79	23.39	22.67	22.04	21.43
159.60 CFS	19.55	19.16	18.01	17.58	18.31	18.62	19.00	18.80
168.00 CFS	18.74	16.71	16.34	14.13	13.50	13.04	13.07	13.19
176.40 CFS	12.92	13.10	13.29	12.96	13.90	14.33	14.12	13.31
184.80 CFS	13.11	13.30	12.97	13.95	14.35	13.87	13.31	12.87
193.20 CFS	12.03	11.72	10.49	10.42	10.25	10.10	10.30	10.10
201.60 CFS	10.13	10.38	10.06	10.03	10.26	10.05	10.13	10.26
210.00 CFS	10.01	10.20	10.36	10.05	10.15	10.24	9.67	9.02
218.40 CFS	8.77	7.55	7.49	7.44	7.17	7.34	7.28	7.15
226.80 CFS	7.40	7.19	7.04	7.36	6.44	5.99	6.21	7.01
235.20 CFS	7.19	7.03	7.34	7.39	7.16	7.37	7.28	6.69

243.60 CFS 3.83 3.33 1.14 .32

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.66 WATERSHED INCHES; 11620 CFS-HRS; 960.3 ACRE-FEET.

OPERATION DIVERT XSECTION 35
OUTPUT #1 HYDROGRAPH

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
122.01	1061.9	(DIVERT)
145.47	28.5	(DIVERT)
153.03	24.8	(DIVERT)
166.06	19.0	(DIVERT)
175.15	13.2	(DIVERT)
178.35	13.3	(DIVERT)
181.83	14.3	(DIVERT)
185.71	13.3	(DIVERT)
188.96	14.4	(DIVERT)
214.86	10.3	(DIVERT)

HYDROGRAPH POINTS FOR ALTERNATE = 2, STORM = 1
MAIN TIME INCREMENT = 1.050 hr, DRAINAGE AREA = 10.84 SQ.MI.

HRS								
.00 CFS	.00	1.19	1.19	3.85	4.52	6.08	7.00	7.30
8.40 CFS	7.36	7.40	7.42	7.39	7.91	8.12	8.49	8.83
16.80 CFS	8.96	9.10	9.12	9.12	9.15	9.13	9.14	9.20
25.20 CFS	9.49	9.54	9.87	9.96	10.00	10.02	9.96	9.90
33.60 CFS	9.88	9.87	9.87	9.97	9.99	10.02	10.02	9.99
42.00 CFS	9.91	9.88	9.87	9.87	9.95	9.99	10.44	11.44
50.40 CFS	11.73	12.80	13.20	13.31	13.34	13.35	13.35	13.35
58.80 CFS	13.35	13.35	13.35	13.35	13.35	13.35	13.35	13.35
67.20 CFS	13.35	13.35	13.35	13.45	13.47	14.42	15.41	16.09
75.60 CFS	17.36	17.82	18.07	18.11	18.14	18.15	18.09	18.03
84.00 CFS	18.11	20.38	20.42	22.71	23.58	23.86	23.93	23.92
92.40 CFS	23.84	23.82	23.92	23.92	23.94	23.95	25.32	29.08
100.80 CFS	30.20	36.75	38.41	41.00	41.99	44.34	46.53	48.13
109.20 CFS	51.07	52.13	57.24	57.56	67.36	71.55	81.92	98.45
117.60 CFS	118	479	494	915	1058	997	886	761
126.00 CFS	436	342	195	151	104	86	73	61
134.40 CFS	57.42	47.43	45.22	40.37	38.49	36.20	34.21	32.95
142.80 CFS	31.48	30.65	28.08	28.21	25.17	23.80	23.72	24.46
151.20 CFS	24.62	24.45	24.77	23.79	23.39	22.67	22.04	21.43
159.60 CFS	19.55	19.16	18.01	17.58	18.31	18.62	19.00	18.80
168.00 CFS	18.74	16.71	16.34	14.13	13.50	13.04	13.07	13.19
176.40 CFS	12.92	13.10	13.29	12.96	13.90	14.33	14.12	13.31
184.80 CFS	13.11	13.30	12.97	13.95	14.35	13.87	13.31	12.87
193.20 CFS	12.03	11.72	10.49	10.42	10.25	10.10	10.30	10.10
201.60 CFS	10.13	10.38	10.06	10.03	10.26	10.05	10.13	10.26
210.00 CFS	10.01	10.20	10.36	10.05	10.15	10.24	9.67	9.02
218.40 CFS	8.77	7.55	7.49	7.44	7.17	7.34	7.28	7.15
226.80 CFS	7.40	7.19	7.04	7.36	6.44	5.99	6.21	7.01

235.20 CFS	7.19	7.03	7.34	7.39	7.16	7.37	7.28	6.69
243.60 CFS	3.83	3.33	1.14	.32				

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.66 WATERSHED INCHES; 11620 CFS-HRS; 960.3 ACRE-FEET.

OUTPUT #2 DIVERTED HYDROGRAPH (XSECTION 199)

*** MESSAGE - HYDROGRAPH CONTAINS NO FLOW ***

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
238 CFS-HRS; 960.3 ACRE-FEET.

*** WARNING - ROUTING COEFFICIENT (C) EQUALS 1.0,
CONSIDER SMALLER MAIN TIME INCREMENT FOR XSECTION 45. ***

OPERATION REACH XSECTION 45

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
122.01	1061.9	2.32
145.47	28.5	.17
153.03	24.8	.15
166.06	19.0	.11
175.15	13.2	.08
178.35	13.3	.08
181.83	14.3	.09
185.71	13.3	.08
188.96	14.4	.09
214.86	10.3	.06

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.66 WATERSHED INCHES; 11620 CFS-HRS; 960.3 ACRE-FEET.

OPERATION RUNOFF XSECTION 6

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
121.27	178.9	(RUNOFF)
143.18	4.5	(RUNOFF)
150.54	3.7	(RUNOFF)
169.58	2.1	(RUNOFF)
174.29	2.0	(RUNOFF)
181.13	2.1	(RUNOFF)
188.48	2.1	(RUNOFF)
212.62	1.7	(RUNOFF)
234.63	1.2	(RUNOFF)
239.03	1.2	(RUNOFF)

HYDROGRAPH POINTS FOR ALTERNATE = 2, STORM = 1
MAIN TIME INCREMENT = 1.050 hr, DRAINAGE AREA = 1.47 SQ.MI.

HRS								
2.10 CFS	.41	.95	1.02	1.04	1.06	1.05	1.02	1.02
10.50 CFS	1.06	1.06	1.22	1.26	1.26	1.26	1.27	1.30
18.90 CFS	1.30	1.26	1.26	1.29	1.30	1.33	1.38	1.39
27.30 CFS	1.42	1.42	1.39	1.38	1.38	1.38	1.38	1.38
35.70 CFS	1.39	1.42	1.42	1.39	1.38	1.38	1.38	1.38
44.10 CFS	1.38	1.38	1.42	1.42	1.68	1.87	1.87	1.87
52.50 CFS	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87
60.90 CFS	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87
69.30 CFS	1.87	1.91	1.91	2.31	2.52	2.52	2.52	2.52
77.70 CFS	2.56	2.56	2.53	2.52	2.52	2.52	2.57	3.34
86.10 CFS	3.34	3.37	3.38	3.35	3.34	3.34	3.34	3.34
94.50 CFS	3.38	3.38	3.34	3.34	4.29	5.13	5.29	5.94
102.90 CFS	5.94	5.94	5.94	7.05	7.37	7.37	7.37	7.58
111.30 CFS	9	9	12	12	15	18	49	142
119.70 CFS	144	175	175	82	59	45	23	22
128.10 CFS	12.62	12.62	9.38	8.96	7.83	6.92	6.58	5.29
136.50 CFS	5.29	5.29	5.29	4.46	4.07	4.20	4.48	4.43
144.90 CFS	3.29	3.26	3.26	3.26	3.45	3.66	3.63	3.26
153.30 CFS	3.26	3.26	3.26	3.00	2.85	2.75	2.44	2.44
161.70 CFS	2.44	2.44	2.76	2.85	2.66	2.44	2.40	2.04
170.10 CFS	2.04	1.66	1.63	1.91	2.04	1.90	1.63	1.66
178.50 CFS	2.04	2.04	2.04	2.04	1.81	1.63	1.72	2.04
186.90 CFS	2.04	2.04	2.04	1.71	1.63	1.63	1.63	1.57
195.30 CFS	1.22	1.22	1.63	1.63	1.39	1.22	1.32	1.63
203.70 CFS	1.61	1.22	1.22	1.53	1.63	1.47	1.22	1.26
212.10 CFS	1.63	1.63	1.28	1.22	1.22	1.22	1.15	.81
220.50 CFS	.81	1.19	1.22	.95	.81	.92	1.22	1.22
228.90 CFS	.83	.81	.81	.81	1.00	1.22	1.21	.82
237.30 CFS	.81	1.18	1.22	.96	.81	.61	.00	

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.68 WATERSHED INCHES; 1598 CFS-HRS; 132.0 ACRE-FEET.

*** WARNING - MAIN TIME INCREMENT (1.050) IS GREATER THAN 50% OF THE
TIME OF CONCENTRATION (.47) FOR SUBWATERSHED XSECTION 6.
THIS WILL REDUCE THE COMPUTED PEAK BY ABOUT -2.3%. ***

OPERATION REACH XSECTION 60

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
122.40	180.7	2.78
144.39	4.5	.11
151.78	3.7	.09
165.88	2.8	.07
182.19	2.1	.05
189.53	2.1	.05
213.87	1.6	.04
223.45	1.2	.03
228.53	1.2	.03
235.83	1.2	.03

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.67 WATERSHED INCHES; 1587 CFS-HRS; 131.1 ACRE-FEET.

*** WARNING - ROUTING COEFFICIENT (C) EQUALS 1.0,
CONSIDER SMALLER MAIN TIME INCREMENT FOR XSECTION 67. ***

OPERATION REACH XSECTION 67

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
122.40	180.7	1.83
144.39	4.5	.32
151.78	3.7	.26
165.88	2.8	.20
182.19	2.1	.14
189.53	2.1	.14
213.87	1.6	.11
223.45	1.2	.08
228.53	1.2	.09
235.83	1.2	.09

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.67 WATERSHED INCHES; 1587 CFS-HRS; 131.1 ACRE-FEET.

OPERATION ADDHYD XSECTION 64

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
122.07	1233.0	(NULL)
152.80	28.2	(NULL)
166.01	21.8	(NULL)
175.28	15.2	(NULL)
181.83	16.4	(NULL)
186.13	15.0	(NULL)
188.96	16.4	(NULL)
214.17	11.8	(NULL)
229.44	8.4	(NULL)
240.47	8.6	(NULL)

HYDROGRAPH POINTS FOR ALTERNATE = 2, STORM = 1
MAIN TIME INCREMENT = 1.050 hr, DRAINAGE AREA = 12.31 SQ.MI.

HRS								
.00	CFS	.00	1.19	1.52	4.24	5.36	7.06	8.03	8.35
8.40	CFS	8.41	8.42	8.44	8.44	8.97	9.31	9.73	10.09
16.80	CFS	10.22	10.37	10.41	10.42	10.42	10.40	10.43	10.50
25.20	CFS	10.81	10.91	11.25	11.37	11.42	11.41	11.35	11.28
33.60	CFS	11.26	11.25	11.25	11.36	11.41	11.44	11.41	11.38
42.00	CFS	11.29	11.26	11.25	11.25	11.34	11.40	11.86	13.07
50.40	CFS	13.55	14.66	15.07	15.18	15.21	15.22	15.22	15.22
58.80	CFS	15.22	15.22	15.22	15.22	15.22	15.22	15.22	15.22
67.20	CFS	15.22	15.22	15.22	15.33	15.37	16.33	17.63	18.55
75.60	CFS	19.87	20.34	20.59	20.66	20.70	20.69	20.62	20.55
84.00	CFS	20.64	22.95	23.60	26.01	26.94	27.24	27.28	27.26
92.40	CFS	27.18	27.15	27.26	27.29	27.32	27.30	28.66	33.18
100.80	CFS	35.12	41.97	44.21	46.92	47.93	50.28	53.35	55.39
109.20	CFS	58	59	65	66	76	83	93	113
117.60	CFS	135	522	616	1054	1226	1171	987	829
126.00	CFS	485	371	218	166	117	96	82	69
134.40	CFS	64.59	54.13	50.80	45.72	43.80	41.49	38.84	37.13
142.80	CFS	35.67	35.07	32.51	31.73	28.48	27.06	26.98	27.86
151.20	CFS	28.23	28.08	28.10	27.06	26.65	25.93	25.09	24.32
159.60	CFS	22.33	21.67	20.46	20.03	20.75	21.32	21.82	21.49
168.00	CFS	21.23	19.13	18.45	16.18	15.24	14.69	14.92	15.19
176.40	CFS	14.84	14.79	14.95	14.91	15.92	16.36	16.15	15.16
184.80	CFS	14.78	15.01	14.94	15.97	16.38	15.91	15.08	14.52
193.20	CFS	13.67	13.35	12.08	11.71	11.49	11.65	11.91	11.54
201.60	CFS	11.39	11.69	11.62	11.62	11.56	11.28	11.61	11.86
210.00	CFS	11.51	11.47	11.63	11.61	11.77	11.59	10.91	10.25
218.40	CFS	9.99	8.71	8.38	8.27	8.28	8.53	8.28	8.00
226.80	CFS	8.31	8.34	8.25	8.26	7.27	6.81	7.02	7.97
235.20	CFS	8.35	8.24	8.24	8.22	8.27	8.57	8.29	7.54
243.60	CFS	4.48	3.46	1.16	.32				

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.66 WATERSHED INCHES; 13207 CFS-HRS; 1091.4 ACRE-FEET.

OPERATION RUNOFF XSECTION 5

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
78.28	8.1	(RUNOFF)
121.36	569.3	(RUNOFF)
138.08	16.9	(RUNOFF)
143.30	14.3	(RUNOFF)
150.60	11.7	(RUNOFF)
164.86	9.0	(RUNOFF)
174.64	6.5	(RUNOFF)
180.43	6.4	(RUNOFF)
188.48	6.5	(RUNOFF)
208.22	5.2	(RUNOFF)

HYDROGRAPH POINTS FOR ALTERNATE = 2, STORM = 1
MAIN TIME INCREMENT = 1.050 hr, DRAINAGE AREA = 4.78 SQ.MI.

HRS								
.00 CFS	.00	1.28	1.28	2.92	3.21	3.27	3.34	3.32
8.40 CFS	3.21	3.21	3.33	3.34	3.76	3.98	3.98	3.98
16.80 CFS	3.98	4.11	4.11	4.00	3.98	4.04	4.11	4.14
25.20 CFS	4.37	4.37	4.48	4.49	4.41	4.37	4.37	4.37
33.60 CFS	4.37	4.37	4.37	4.47	4.49	4.43	4.37	4.37
42.00 CFS	4.37	4.37	4.37	4.37	4.46	4.49	4.87	5.91
50.40 CFS	5.91	5.91	5.91	5.91	5.91	5.91	5.91	5.91
58.80 CFS	5.91	5.91	5.91	5.91	5.91	5.91	5.91	5.91
67.20 CFS	5.91	5.91	5.91	6.01	6.03	6.91	7.96	7.96
75.60 CFS	7.96	7.96	8.08	8.09	8.00	7.96	7.96	7.96
84.00 CFS	8.07	10.47	10.53	10.64	10.66	10.60	10.53	10.53
92.40 CFS	10.53	10.53	10.65	10.66	10.57	10.53	12.17	16.18
100.80 CFS	16.22	18.72	18.75	18.75	18.75	20.91	23.24	23.24
109.20 CFS	23.24	23.31	28.33	28.63	34.05	36.85	41.93	55.47
117.60 CFS	62	448	448	537	552	373	187	174
126.00 CFS	73.19	72.66	42.18	39.80	32.11	28.25	26.69	21.83
134.40 CFS	21.61	16.69	16.69	16.69	16.69	14.82	12.84	13.01
142.80 CFS	14.12	14.10	10.56	10.27	10.27	10.27	10.59	11.56
151.20 CFS	11.48	10.28	10.27	10.27	10.27	9.67	8.99	8.82
159.60 CFS	7.70	7.70	7.70	7.70	8.62	8.99	8.63	7.70
168.00 CFS	7.63	6.44	6.42	5.35	5.14	5.72	6.42	6.27
176.40 CFS	5.14	5.14	6.36	6.42	6.42	6.42	6.04	5.14
184.80 CFS	5.20	6.39	6.42	6.42	6.42	5.83	5.14	5.14
193.20 CFS	5.14	5.14	3.89	3.85	4.72	5.14	4.76	3.85
201.60 CFS	3.89	5.11	5.14	4.05	3.85	4.46	5.14	4.97
210.00 CFS	3.85	3.86	5.08	5.14	4.29	3.85	3.85	3.85
218.40 CFS	3.85	2.57	2.57	3.66	3.85	3.23	2.57	2.73
226.80 CFS	3.85	3.83	2.65	2.57	2.57	2.57	2.90	3.85
235.20 CFS	3.81	2.57	2.57	3.65	3.85	3.22	2.57	2.25
243.60 CFS	.00							

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.67 WATERSHED INCHES; 5155 CFS-HRS; 426.0 ACRE-FEET.

*** WARNING - MAIN TIME INCREMENT (1.050) IS GREATER THAN 50% OF THE
TIME OF CONCENTRATION (.78) FOR SUBWATERSHED XSECTION 5.
THIS WILL REDUCE THE COMPUTED PEAK BY ABOUT -3.1%. ***

OPERATION RUNOFF XSECTION 7

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
121.49	403.1	(RUNOFF)
143.33	10.5	(RUNOFF)
150.66	8.4	(RUNOFF)
165.11	6.5	(RUNOFF)
174.73	4.7	(RUNOFF)
180.93	4.6	(RUNOFF)
188.48	4.7	(RUNOFF)
192.68	3.7	(RUNOFF)
208.35	3.8	(RUNOFF)
212.82	3.7	(RUNOFF)

HYDROGRAPH POINTS FOR ALTERNATE = 2, STORM = 1
MAIN TIME INCREMENT = 1.050 hr, DRAINAGE AREA = 3.48 SQ.MI.

HRS								
.00 CFS	.00	.90	.93	1.92	2.32	2.35	2.41	2.40
8.40 CFS	2.32	2.32	2.40	2.41	2.65	2.87	2.87	2.87
16.80 CFS	2.88	2.96	2.97	2.90	2.87	2.90	2.97	2.98
25.20 CFS	3.15	3.15	3.23	3.25	3.20	3.15	3.15	3.15
33.60 CFS	3.15	3.15	3.15	3.22	3.25	3.22	3.15	3.15
42.00 CFS	3.15	3.15	3.15	3.15	3.20	3.25	3.39	4.27
50.40 CFS	4.27	4.27	4.27	4.27	4.27	4.27	4.27	4.27
58.80 CFS	4.27	4.27	4.27	4.27	4.27	4.27	4.27	4.27
67.20 CFS	4.27	4.27	4.27	4.33	4.36	4.79	5.75	5.75
75.60 CFS	5.75	5.75	5.83	5.84	5.79	5.75	5.75	5.75
84.00 CFS	5.79	7.52	7.60	7.67	7.70	7.67	7.60	7.60
92.40 CFS	7.60	7.60	7.69	7.70	7.65	7.60	8.19	11.68
100.80 CFS	11.70	13.48	13.54	13.54	13.54	14.58	16.78	16.78
109.20 CFS	16.78	16.78	20.14	20.68	23.74	26.61	28.86	40.03
117.60 CFS	43	311	324	377	399	317	135	130
126.00 CFS	53.45	52.79	32.22	28.75	24.51	20.40	19.64	15.76
134.40 CFS	15.69	12.24	12.05	12.05	12.05	11.18	9.27	9.32
142.80 CFS	10.19	10.20	7.75	7.42	7.42	7.42	7.55	8.35
151.20 CFS	8.33	7.45	7.42	7.42	7.42	7.12	6.49	6.44
159.60 CFS	5.57	5.56	5.56	5.56	6.04	6.49	6.34	5.57
168.00 CFS	5.56	4.67	4.64	3.97	3.71	4.00	4.64	4.57
176.40 CFS	3.72	3.71	4.50	4.64	4.64	4.64	4.48	3.71
184.80 CFS	3.73	4.59	4.64	4.64	4.64	4.35	3.71	3.71
193.20 CFS	3.71	3.71	2.89	2.78	3.25	3.71	3.58	2.78
201.60 CFS	2.80	3.68	3.71	3.06	2.78	3.08	3.71	3.66
210.00 CFS	2.79	2.78	3.60	3.71	3.23	2.78	2.78	2.78
218.40 CFS	2.78	1.88	1.85	2.52	2.78	2.49	1.85	1.92
226.80 CFS	2.77	2.78	1.99	1.85	1.85	1.85	2.01	2.78
235.20 CFS	2.77	1.90	1.85	2.51	2.78	2.50	1.85	1.76

243.60 CFS .00

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.68 WATERSHED INCHES; 3762 CFS-HRS; 310.9 ACRE-FEET.

*** WARNING - MAIN TIME INCREMENT (1.050) IS GREATER THAN 50% OF THE
TIME OF CONCENTRATION (1.01) FOR SUBWATERSHED XSECTION 7.
THIS WILL REDUCE THE COMPUTED PEAK BY ABOUT -1.1%. ***

OPERATION ADDHYD XSECTION 75

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
121.40	971.9	(NULL)
138.08	29.1	(NULL)
143.32	24.6	(NULL)
150.63	20.1	(NULL)
164.97	15.5	(NULL)
174.68	11.2	(NULL)
180.84	11.1	(NULL)
188.48	11.2	(NULL)
208.28	8.9	(NULL)
212.74	9.0	(NULL)

HYDROGRAPH POINTS FOR ALTERNATE = 2, STORM = 1
MAIN TIME INCREMENT = 1.050 hr, DRAINAGE AREA = 8.26 SQ.MI.

HRS								
.00 CFS	.00	2.18	2.21	4.84	5.53	5.62	5.75	5.73
8.40 CFS	5.53	5.53	5.73	5.75	6.41	6.85	6.85	6.85
16.80 CFS	6.86	7.07	7.08	6.90	6.85	6.95	7.08	7.12
25.20 CFS	7.52	7.52	7.72	7.74	7.61	7.52	7.52	7.52
33.60 CFS	7.52	7.52	7.52	7.69	7.74	7.65	7.52	7.52
42.00 CFS	7.52	7.52	7.52	7.52	7.66	7.74	8.26	10.17
50.40 CFS	10.17	10.17	10.17	10.17	10.17	10.17	10.17	10.17
58.80 CFS	10.17	10.17	10.17	10.17	10.17	10.17	10.17	10.17
67.20 CFS	10.17	10.17	10.17	10.35	10.39	11.70	13.71	13.71
75.60 CFS	13.71	13.71	13.91	13.93	13.80	13.71	13.71	13.71
84.00 CFS	13.86	17.99	18.13	18.31	18.35	18.26	18.13	18.13
92.40 CFS	18.13	18.13	18.34	18.35	18.22	18.13	20.36	27.86
100.80 CFS	27.93	32.20	32.28	32.28	32.28	35.49	40.02	40.02
109.20 CFS	40.02	40.10	48.47	49.31	57.79	63.46	70.79	95.50
117.60 CFS	105	759	772	914	951	690	323	304
126.00 CFS	127	125	74	69	57	49	46	38
134.40 CFS	37.30	28.93	28.75	28.75	28.75	26.00	22.11	22.33
142.80 CFS	24.32	24.30	18.31	17.69	17.69	17.69	18.15	19.90
151.20 CFS	19.81	17.72	17.69	17.69	17.69	16.79	15.48	15.26
159.60 CFS	13.28	13.27	13.27	13.27	14.67	15.48	14.97	13.27
168.00 CFS	13.19	11.12	11.06	9.32	8.84	9.72	11.06	10.84
176.40 CFS	8.85	8.85	10.86	11.06	11.06	11.06	10.52	8.85
184.80 CFS	8.93	10.98	11.06	11.06	11.06	10.18	8.84	8.84
193.20 CFS	8.84	8.84	6.78	6.63	7.97	8.84	8.33	6.63
201.60 CFS	6.69	8.79	8.84	7.11	6.63	7.54	8.85	8.63

210.00 CFS	6.64	6.64	8.68	8.84	7.52	6.63	6.63	6.63
218.40 CFS	6.63	4.45	4.42	6.18	6.63	5.71	4.42	4.64
226.80 CFS	6.62	6.61	4.64	4.42	4.42	4.42	4.91	6.63
235.20 CFS	6.58	4.47	4.42	6.16	6.63	5.72	4.42	4.01
243.60 CFS	.00							

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.67 WATERSHED INCHES; 8917 CFS-HRS; 736.9 ACRE-FEET.

OPERATION ADDHYD XSECTION 76 Inflow Hydrograph

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
121.69	2179.1	(NULL)
142.76	60.0	(NULL)
150.79	48.2	(NULL)
165.37	37.0	(NULL)
174.85	26.3	(NULL)
181.52	27.4	(NULL)
188.72	27.5	(NULL)
198.77	20.6	(NULL)
203.17	20.8	(NULL)
208.44	20.8	(NULL)

HYDROGRAPH POINTS FOR ALTERNATE = 2, STORM = 1
MAIN TIME INCREMENT = 1.050 hr, DRAINAGE AREA = 20.57 SQ.MI.

HRS								
.00 CFS	.00	3.38	3.73	9.09	10.89	12.68	13.78	14.08
8.40 CFS	13.94	13.95	14.17	14.19	15.38	16.17	16.59	16.95
16.80 CFS	17.08	17.44	17.49	17.33	17.28	17.34	17.50	17.62
25.20 CFS	18.33	18.43	18.97	19.11	19.03	18.93	18.87	18.80
33.60 CFS	18.78	18.77	18.77	19.05	19.14	19.09	18.93	18.89
42.00 CFS	18.81	18.78	18.77	18.77	18.99	19.14	20.12	23.24
50.40 CFS	23.72	24.83	25.24	25.35	25.38	25.39	25.39	25.39
58.80 CFS	25.39	25.39	25.39	25.39	25.39	25.39	25.39	25.39
67.20 CFS	25.39	25.39	25.39	25.67	25.76	28.03	31.34	32.26
75.60 CFS	33.58	34.05	34.50	34.59	34.49	34.39	34.33	34.26
84.00 CFS	34.49	40.94	41.73	44.32	45.29	45.50	45.41	45.39
92.40 CFS	45.31	45.29	45.60	45.65	45.54	45.44	49.02	61.04
100.80 CFS	63.04	74.17	76.49	79.20	80.21	85.77	93.38	95.41
109.20 CFS	98	100	113	116	134	146	164	208
117.60 CFS	240	1281	1387	1968	2176	1861	1310	1133
126.00 CFS	612	496	293	234	174	144	129	107
134.40 CFS	102	83	80	74	73	67	61	59
142.80 CFS	59.99	59.37	50.82	49.42	46.17	44.75	45.13	47.77
151.20 CFS	48.04	45.80	45.79	44.75	44.34	42.72	40.57	39.58
159.60 CFS	35.61	34.94	33.73	33.30	35.42	36.80	36.79	34.76
168.00 CFS	34.42	30.24	29.51	25.50	24.08	24.42	25.98	26.03
176.40 CFS	23.70	23.63	25.80	25.97	26.98	27.42	26.68	24.01
184.80 CFS	23.71	25.99	26.00	27.02	27.44	26.09	23.93	23.37
193.20 CFS	22.51	22.19	18.86	18.35	19.46	20.50	20.24	18.17
201.60 CFS	18.08	20.48	20.46	18.73	18.19	18.82	20.45	20.49

210.00 CFS	18.16	18.12	20.31	20.45	19.28	18.22	17.55	16.88
218.40 CFS	16.62	13.16	12.80	14.45	14.92	14.25	12.70	12.65
226.80 CFS	14.93	14.96	12.89	12.68	11.69	11.23	11.94	14.61
235.20 CFS	14.93	12.71	12.66	14.39	14.90	14.29	12.71	11.55
243.60 CFS	4.48	3.46	1.16	.32				

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.67 WATERSHED INCHES; 22124 CFS-HRS; 1828.3 ACRE-FEET.

--- XSECTION 76, ALTERNATE 2, STORM 1, HYDROGRAPH ADDED TO READHD FILE ---

*** MESSAGE - STRUCTURE 1, USER ENTERED STARTING ELEVATION (1193.0 FEET) CAN ADD .118 INCHES OF RUNOFF TO THE OUTFLOW HYDROGRAPH VOLUME.***

*** MESSAGE - RESERVOIR ROUTING, STRUCTURE 1, TRUNCATED AT 400 POINTS WITH 676.12 AC-FT (.05 WATERSHED INCHES) FLOOD STORAGE REMAINING IN RESERVOIR AT ELEV. 1200.63. ***

OPERATION RESVOR STRUCTURE 1 outflow

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
144.30	55.4	1205.68

*** WARNING - STRUCTURE 1, HYDROGRAPH VOLUME TRUNCATED AT 33 CFS
RESVOR (59. % OF MAX. HYDROGRAPH COORDINATE)
MAIN TIME INCREMENT TOO SMALL. ***

HYDROGRAPH POINTS FOR ALTERNATE = 2, STORM = 1
MAIN TIME INCREMENT = 1.050 hr, DRAINAGE AREA = 20.57 SQ.MI.

HRS								
.00 CFS	7.29	7.26	7.25	7.24	7.26	7.28	7.30	7.33
8.40 CFS	7.36	7.39	7.42	7.46	7.49	7.53	7.57	7.61
16.80 CFS	7.65	7.69	7.74	7.78	7.83	7.87	7.91	7.96
25.20 CFS	8.00	8.05	8.10	8.15	8.20	8.25	8.29	8.34
33.60 CFS	8.39	8.44	8.48	8.53	8.58	8.63	8.67	8.72
42.00 CFS	8.77	8.81	8.86	8.90	8.95	8.99	9.04	9.10
50.40 CFS	9.16	9.23	9.30	9.38	9.45	9.52	9.59	9.67
58.80 CFS	9.74	9.81	9.88	9.95	10.02	10.09	10.16	10.23
67.20 CFS	10.30	10.37	10.43	10.50	10.57	10.65	10.73	10.83
75.60 CFS	10.93	11.03	11.14	11.24	11.35	11.46	11.56	11.66
84.00 CFS	11.77	11.88	12.02	12.16	12.31	12.46	12.61	12.76
92.40 CFS	12.90	13.05	13.20	13.34	13.49	13.64	13.79	13.98
100.80 CFS	14.19	14.44	14.72	15.00	15.30	15.61	15.94	16.30
109.20 CFS	16.66	17.04	17.44	17.88	18.37	18.92	19.54	20.30
117.60 CFS	21.23	24.58	29.24	34.17	39.98	44.81	48.45	50.69
126.00 CFS	52.26	53.22	53.88	54.28	54.56	54.76	54.92	55.04
134.40 CFS	55.13	55.20	55.25	55.30	55.33	55.36	55.38	55.38
142.80 CFS	55.39	55.40	55.40	55.39	55.38	55.36	55.34	55.32
151.20 CFS	55.31	55.29	55.27	55.25	55.23	55.21	55.18	55.16
159.60 CFS	55.12	55.08	55.04	55.00	54.96	54.93	54.89	54.86
168.00 CFS	54.82	54.77	54.73	54.67	54.62	54.56	54.50	54.45

176.40 CFS	54.39	54.33	54.28	54.22	54.17	54.12	54.07	54.01
184.80 CFS	53.95	53.90	53.84	53.79	53.74	53.69	53.64	53.58
193.20 CFS	53.52	53.46	53.40	53.33	53.26	53.20	53.14	53.07
201.60 CFS	53.01	52.94	52.88	52.82	52.75	52.68	52.62	52.56
210.00 CFS	52.50	52.43	52.37	52.31	52.24	52.18	52.11	52.05
218.40 CFS	51.98	51.91	51.83	51.76	51.69	51.62	51.55	51.47
226.80 CFS	51.40	51.33	51.26	51.19	51.11	51.04	50.96	50.89
235.20 CFS	50.82	50.75	50.68	50.60	50.54	50.47	50.40	50.32
243.60 CFS	50.24	50.15	50.06	49.97	49.87	49.78	49.68	49.59
252.00 CFS	49.49	49.40	49.30	49.21	49.11	49.02	48.93	48.83
260.40 CFS	48.74	48.65	48.55	48.46	48.37	48.28	48.18	48.09
268.80 CFS	48.00	47.88	47.77	47.65	47.53	47.42	47.30	47.18
277.20 CFS	47.07	46.95	46.84	46.73	46.61	46.50	46.38	46.27
285.60 CFS	46.16	46.04	45.93	45.82	45.71	45.60	45.49	45.37
294.00 CFS	45.26	45.15	45.04	44.93	44.82	44.71	44.60	44.50
302.40 CFS	44.39	44.28	44.17	44.06	43.95	43.85	43.74	43.63
310.80 CFS	43.53	43.42	43.31	43.21	43.10	43.00	42.89	42.79
319.20 CFS	42.68	42.58	42.48	42.37	42.27	42.16	42.06	41.96
327.60 CFS	41.86	41.75	41.65	41.55	41.45	41.35	41.25	41.15
336.00 CFS	41.05	40.95	40.85	40.75	40.65	40.55	40.45	40.35
344.40 CFS	40.25	40.15	40.05	39.96	39.86	39.76	39.66	39.57
352.80 CFS	39.47	39.37	39.28	39.18	39.09	38.99	38.90	38.80
361.20 CFS	38.71	38.60	38.48	38.37	38.25	38.14	38.02	37.91
369.60 CFS	37.80	37.68	37.57	37.46	37.34	37.23	37.12	37.01
378.00 CFS	36.90	36.79	36.68	36.57	36.46	36.35	36.24	36.13
386.40 CFS	36.03	35.92	35.81	35.70	35.60	35.49	35.38	35.28
394.80 CFS	35.17	35.07	34.96	34.86	34.75	34.65	34.55	34.44
403.20 CFS	34.34	34.24	34.13	34.03	33.93	33.83	33.73	33.63
411.60 CFS	33.53	33.43	33.33	33.23	33.13	33.03	32.93	32.83

Discharge at end of 10th Day

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.14 WATERSHED INCHES; 15163 CFS-HRS; 1253.0 ACRE-FEET.

--- STRUCTURE 1, ALTERNATE 2, STORM 1, HYDROGRAPH ADDED TO READHD FILE ---

EXECUTIVE CONTROL ENDCMP COMPUTATIONS COMPLETED FOR PASS 2

Elevation at end of 10th Day

$Q_1 = 48.00$ cfs $E_1 = 1204.0$

$Q_2 = 50.47$ cfs $E_2 = ?$

$Q_3 = 56.80$ cfs $E_3 = 1206.0$

$$E_2 = 1204.0 + \left(\frac{50.47 - 48.00}{56.80 - 48.00}\right) * (1206 - 1204)$$

$$E_2 = 1204.0 + \left(\frac{2.47}{8.8}\right)(2)$$

$$\boxed{E_2 = 1204.56 \text{ ft}}$$ → Elevation at end of 10th day and will be ARC for second 100 yr 10 day storm

SUMMARY TABLE 1

SELECTED RESULTS OF STANDARD AND EXECUTIVE CONTROL IN ORDER PERFORMED.
A CHARACTER FOLLOWING THE PEAK DISCHARGE TIME AND RATE (CFS) INDICATES:
F-FLAT TOP HYDROGRAPH T-TRUNCATED HYDROGRAPH R-RISING TRUNCATED HYDROGRAPH

RAINFALL OF 1.64 inches AND 242.40 hr DURATION, BEGINS AT .0 hrs.
RAINTABLE NUMBER 1, ARC 2
MAIN TIME INCREMENT 1.050 HOURS

ALTERNATE 1 STORM 1

XSECTION/ STRUCTURE ID	STANDARD CONTROL OPERATION	DRAINAGE AREA (SQ MI)	RUNOFF AMOUNT (IN)	PEAK DISCHARGE ELEVATION (FT)	TIME (HR)	RATE (CFS)	RATE (CSM)
XSECTION 1	RUNOFF	2.46	1.68	---	121.40	290	117.9
XSECTION 5	REACH	2.46	1.62	2.23	122.55	283	115.0
XSECTION 10	REACH	2.46	1.66	3.72	123.70	277	112.6
XSECTION 2	RUNOFF	2.38	1.67	---	121.33	285	119.7
XSECTION 12	ADDHYD	4.84	1.67	---	121.80	488	100.8
XSECTION 12	DIVERT	4.84	1.67	---	121.80	488	100.8
XSECTION 200	DIVERT	.00	1.67	---	.00	0	********
XSECTION 20	REACH	4.84	1.67	2.45	121.80	488	100.8
XSECTION 25	REACH	4.84	1.67	1.54	121.80	488	100.8
XSECTION 3	RUNOFF	3.94	1.67	---	121.39	462	117.3
XSECTION 30	REACH	3.94	1.61	2.56	122.60	444	112.7
XSECTION 5	REACH	3.94	1.65	2.71	123.73	437	110.9
XSECTION 25	REACH	3.94	1.65	1.44	123.73	437	110.9
XSECTION 4	RUNOFF	2.06	1.67	---	121.36	245	118.9
XSECTION 34	ADDHYD	6.00	1.66	---	122.26	579	96.5
XSECTION 35	ADDHYD	10.84	1.66	---	122.01	1062	98.0
XSECTION 35	DIVERT	10.84	1.66	---	122.01	1062	98.0
XSECTION 199	DIVERT	.00	1.66	---	.00	0	********
XSECTION 45	REACH	10.84	1.66	2.32	122.01	1062	98.0
XSECTION 6	RUNOFF	1.47	1.68	---	121.27	179	121.8
XSECTION 60	REACH	1.47	1.67	2.78	122.40	181	123.1
XSECTION 67	REACH	1.47	1.67	1.83	122.40	181	123.1
XSECTION 64	ADDHYD	12.31	1.66	---	122.07	1233	100.2
XSECTION 5	RUNOFF	4.78	1.67	---	121.36	569	119.0
XSECTION 7	RUNOFF	3.48	1.68	---	121.49	403	115.8
XSECTION 75	ADDHYD	8.26	1.67	---	121.40	972	117.7
XSECTION 76	ADDHYD	20.57	1.67	---	121.69	2179	105.9
STRUCTURE 1	RESVOR	20.57	1.14	1205.68	144.30T	55T	2.7

SUMMARY TABLE 1

SELECTED RESULTS OF STANDARD AND EXECUTIVE CONTROL IN ORDER PERFORMED.
A CHARACTER FOLLOWING THE PEAK DISCHARGE TIME AND RATE (CFS) INDICATES:
F-FLAT TOP HYDROGRAPH T-TRUNCATED HYDROGRAPH R-RISING TRUNCATED HYDROGRAPH

XSECTION/ STRUCTURE ID	STANDARD CONTROL OPERATION	DRAINAGE AREA (SQ MI)	RUNOFF AMOUNT (IN)	PEAK DISCHARGE ELEVATION (FT)	TIME (HR)	RATE (CFS)	RATE (CSM)
ALTERNATE 2 STORM 1							
XSECTION 1	RUNOFF	2.46	1.68	---	121.40	290	117.9
XSECTION 5	REACH	2.46	1.62	2.23	122.55	283	115.0
XSECTION 10	REACH	2.46	1.66	3.72	123.70	277	112.6
XSECTION 2	RUNOFF	2.38	1.67	---	121.33	285	119.7
XSECTION 12	ADDHYD	4.84	1.67	---	121.80	488	100.8
XSECTION 12	DIVERT	4.84	1.67	---	121.80	488	100.8
XSECTION 200	DIVERT	.00	1.67	---	.00	0	********
XSECTION 20	REACH	4.84	1.67	2.45	121.80	488	100.8
XSECTION 25	REACH	4.84	1.67	1.54	121.80	488	100.8
XSECTION 3	RUNOFF	3.94	1.67	---	121.39	462	117.3
XSECTION 30	REACH	3.94	1.61	2.56	122.60	444	112.7
XSECTION 5	REACH	3.94	1.65	2.71	123.73	437	110.9
XSECTION 25	REACH	3.94	1.65	1.44	123.73	437	110.9
XSECTION 4	RUNOFF	2.06	1.67	---	121.36	245	118.9
XSECTION 34	ADDHYD	6.00	1.66	---	122.26	579	96.5
XSECTION 35	ADDHYD	10.84	1.66	---	122.01	1062	98.0
XSECTION 35	DIVERT	10.84	1.66	---	122.01	1062	98.0
XSECTION 199	DIVERT	.00	1.66	---	.00	0	********
XSECTION 45	REACH	10.84	1.66	2.32	122.01	1062	98.0
XSECTION 6	RUNOFF	1.47	1.68	---	121.27	179	121.8
XSECTION 60	REACH	1.47	1.67	2.78	122.40	181	123.1
XSECTION 67	REACH	1.47	1.67	1.83	122.40	181	123.1
XSECTION 64	ADDHYD	12.31	1.66	---	122.07	1233	100.2
XSECTION 5	RUNOFF	4.78	1.67	---	121.36	569	119.0
XSECTION 7	RUNOFF	3.48	1.68	---	121.49	403	115.8
XSECTION 75	ADDHYD	8.26	1.67	---	121.40	972	117.7
XSECTION 76	ADDHYD	20.57	1.67	---	121.69	2179	105.9

SUMMARY TABLE 1

SELECTED RESULTS OF STANDARD AND EXECUTIVE CONTROL IN ORDER PERFORMED.
A CHARACTER FOLLOWING THE PEAK DISCHARGE TIME AND RATE (CFS) INDICATES:
F-FLAT TOP HYDROGRAPH T-TRUNCATED HYDROGRAPH R-RISING TRUNCATED HYDROGRAPH

XSECTION/ STRUCTURE ID	STANDARD CONTROL OPERATION	DRAINAGE AREA (SQ MI)	RUNOFF AMOUNT (IN)	PEAK DISCHARGE ELEVATION (FT)	TIME (HR)	RATE (CFS)	RATE (CSM)
ALTERNATE 2 STORM 1							
STRUCTURE 1	RESVOR	20.57	1.14	1205.68	144.30T	55T	2.7

SUMMARY TABLE 2

MODIFIED ATT-KIN REACH ROUTING IN ORDER PERFORMED.
QUESTION MARK (?) AFTER: OUTFLOW PEAK - MAX. NUMBER ROUTING ITERATIONS USED;
LENGTH FACTOR - VALUE k* GREATER THAN 1.0;
ATT-KIN COEFF - VALUE C GREATER THAN 0.667.

			HYDROGRAPH INFORMATION				ROUTING PARAMETERS				
			INFLOW		OUTFLOW		Q-A EQ.				
XSEC ID	REACH LENGTH (FT)	FLOOD PLAIN LENGTH (FT)	PEAK (CFS)	TIME (HR)	PEAK (CFS)	TIME (HR)	COEFF (X)	POWER (M)	LENGTH FACTOR (k*)	PEAK RATIO Q/I (Q*)	ATT-KIN COEFF (C)
BASEFLOW IS .0 CFS											
ALTERNATE 1 STORM 1											
5	9100		284	121.8	280	122.8	.52	1.33	.053	.986	.81?
10	9100		280	122.8	276	123.9	.88	1.25	.057	.985	.83?
20	3332		488	121.8	488	121.8	.10	1.69	.002	1.000	1.00?
25	1950		488	121.8	488	121.8	.046	1.75	.001	1.000	1.00?
30	8865		451	121.8	441	122.8	.79	1.20	.075	.977	.73?
5	8865		441	122.8	436	123.9	.53	1.32	.045	.989	.87?
25	1950		436	123.9	436	123.9	.047	1.75	.002	1.000	1.00?
45	4200		1058	121.8	1058	121.8	.045	1.73	.003	1.000	1.00?
60	7540		175	120.8	174	122.8	1.40	1.12	.074	.992	.80?
67	5140		174	122.8	174	122.8	.53	1.32	.031	1.000	1.00?
ALTERNATE 2 STORM 1											
5	9100		284	121.8	280	122.8	.52	1.33	.053	.986	.81?
10	9100		280	122.8	276	123.9	.88	1.25	.057	.985	.83?
20	3332		488	121.8	488	121.8	.10	1.69	.002	1.000	1.00?
25	1950		488	121.8	488	121.8	.046	1.75	.001	1.000	1.00?
30	8865		451	121.8	441	122.8	.79	1.20	.075	.977	.73?
5	8865		441	122.8	436	123.9	.53	1.32	.045	.989	.87?
25	1950		436	123.9	436	123.9	.047	1.75	.002	1.000	1.00?
45	4200		1058	121.8	1058	121.8	.045	1.73	.003	1.000	1.00?
60	7540		175	120.8	174	122.8	1.40	1.12	.074	.992	.80?
67	5140		174	122.8	174	122.8	.53	1.32	.031	1.000	1.00?

SUMMARY TABLE 3

STORM DISCHARGES (CFS) AT XSECTIONS AND STRUCTURES FOR ALL ALTERNATES
QUESTION MARK (?) AFTER: OUTFLOW PEAK - RISING TRUNCATED HYDROGRAPH.

XSECTION/ STRUCTURE ID	DRAINAGE AREA (SQ MI)	STORM NUMBERS..... 1
STRUCTURE 1	20.57	
ALTERNATE 1		55
ALTERNATE 2		55
XSECTION 1	2.46	
ALTERNATE 1		290
ALTERNATE 2		290
XSECTION 2	2.38	
ALTERNATE 1		285
ALTERNATE 2		285
XSECTION 3	3.94	
ALTERNATE 1		462
ALTERNATE 2		462
XSECTION 4	2.06	
ALTERNATE 1		245
ALTERNATE 2		245
XSECTION 5	4.78	
ALTERNATE 1		569
ALTERNATE 2		569
XSECTION 6	1.47	
ALTERNATE 1		179
ALTERNATE 2		179
XSECTION 7	3.48	
ALTERNATE 1		403
ALTERNATE 2		403
XSECTION 10	2.46	
ALTERNATE 1		277
ALTERNATE 2		277
XSECTION 12	4.84	
ALTERNATE 1		488
ALTERNATE 2		488

SUMMARY TABLE 3

STORM DISCHARGES (CFS) AT XSECTIONS AND STRUCTURES FOR ALL ALTERNATES
QUESTION MARK (?) AFTER: OUTFLOW PEAK - RISING TRUNCATED HYDROGRAPH.

XSECTION/ STRUCTURE ID	DRAINAGE AREA (SQ MI)	STORM NUMBERS..... 1
XSECTION 20	4.84	
ALTERNATE 1		488
ALTERNATE 2		488
XSECTION 25	3.94	
ALTERNATE 1		437
ALTERNATE 2		437
XSECTION 30	3.94	
ALTERNATE 1		444
ALTERNATE 2		444
XSECTION 34	6.00	
ALTERNATE 1		579
ALTERNATE 2		579
XSECTION 35	10.84	
ALTERNATE 1		1062
ALTERNATE 2		1062
XSECTION 45	10.84	
ALTERNATE 1		1062
ALTERNATE 2		1062
XSECTION 60	1.47	
ALTERNATE 1		181
ALTERNATE 2		181
XSECTION 64	12.31	
ALTERNATE 1		1233
ALTERNATE 2		1233
XSECTION 67	1.47	
ALTERNATE 1		181
ALTERNATE 2		181
XSECTION 75	8.26	
ALTERNATE 1		972
ALTERNATE 2		972

SUMMARY TABLE 3

STORM DISCHARGES (CFS) AT XSECTIONS AND STRUCTURES FOR ALL ALTERNATES
QUESTION MARK (?) AFTER: OUTFLOW PEAK - RISING TRUNCATED HYDROGRAPH.

XSECTION/ STRUCTURE ID		DRAINAGE AREA (SQ MI)	STORM NUMBERS..... 1
XSECTION 76		20.57	
ALTERNATE	1		2179
ALTERNATE	2		2179
XSECTION 199		.00	
ALTERNATE	1		0
ALTERNATE	2		0
XSECTION 200		.00	
ALTERNATE	1		0
ALTERNATE	2		0

```
TR20 ------------------------------------------------------------------------ SCS -
WHTANK3      WHITE TANK FRS #3, WATERSHED DIVIDED INTO 7 SUB-BASINS      VERSION
09/07/**  100-YR 10-DAY RUNOFF & DIST IN TABLE 1, 100-YR SED IN RESVOIR 2.04TEST


END OF  1 JOBS IN THIS RUN


                    SCS  TR-20,  VERSION 2.04TEST
                          WHTANK3   FILES

     INPUT  = 10DAY.DAT                                , GIVEN DATA FILE
     OUTPUT = 10DOUT.OUT                               , DATED 09/07/**,15:50:55

              FILES GENERATED - DATED 09/07/**,15:50:55

    FILE 111.TRD CONTAINS READHD INFORMATION


           TOTAL NUMBER OF WARNINGS =  26,  MESSAGES =   8

                        JOB ENDED AT 15:50:55
                    *** TR-20 RUN COMPLETED ***
```

Reservoir Routing of second 100-yr 10-day storm

```
******************80-80 LIST OF INPUT DATA FOR TR-20 HYDROLOGY*****************

JOB TR-20 WHTANK3                          PASS=001  SUMMARY
TITLE     WHITE TANK FRS #3, WATERSHED DIVIDED INTO 7 SUB-BASINS
TITLE     100-YR 10-DAY RUNOFF & DIST IN TABLE 1, 100-YR SED IN RESVOIR
 5 RAINFL 1     1       2.4                                                10-DAY
 8          .0000       .0010       .0035       .0061       .0086
 8          .0112       .0143       .0174       .0206       .0237
 8          .0269       .0303       .0338       .0372       .0406
 8          .0440       .0475       .0509       .0543       .0577
 8          .0612       .0658       .0704       .0750       .0796
 8          .0842       .0888       .0934       .0980       .1026
 8          .1073       .1135       .1197       .1260       .1322
 8          .1384       .1466       .1549       .1631       .1713
 8          .1796       .1878       .2004       .2150       .2296
 8          .2477       .2658       .2881       .3168       .3600
 8          .7090       1.139       1.285       1.342       1.373
 8          1.395       1.412       1.425       1.438       1.448
 8          1.459       1.467       1.475       1.484       1.492
 8          1.500       1.507       1.513       1.519       1.526
 8          1.532       1.537       1.541       1.546       1.550
 8          1.555       1.560       1.564       1.569       1.574
 8          1.578       1.582       1.585       1.589       1.592
 8          1.596       1.599       1.603       1.606       1.610
 8          1.613       1.616       1.618       1.621       1.623
 8          1.626       1.628       1.630       1.633       1.635
 8          1.638        1.64        1.64        1.64        1.64
 9 ENDTBL
 4 DIMHYD               .0556                                              WT3
 8          0.0         .03         .10         .19         .31
 8          .47         .66         .82         .93         .99
 8          1.0         .99         .93         .82         .66
 8          .47         .31         .03         .00         .00
 9 ENDTBL
 2 XSECTN   005         1.0         8.77                                   BOSSCS#5
 8                      0.          0.0         0.0
 8                      0.35        5.          5.56
 8                      1.03        50.         30.95
 8                      1.39        100.        52.16
 8                      1.94        200.        88.72
 8                      2.63        400.        148.61
 8                      3.51        800.        260.63
 8                      4.62        1600.       459.66
 8                      6.04        3200.       929.36
 8                      7.38        6400.       1811.51
 8                      8.77        12800.      3374.20
 8                      10.17       25600.      6398.87
 8                      11.89       51200.      10982.51
 9 ENDTBL
 2 XSECTN   010         1.0         10.41                                  BOSSCS#4
 8                      0.          0.0         0.0
 8                      0.86        5.          4.39
 8                      2.01        50.         24.22
 8                      2.58        100.        40.12
 8                      3.46        200.        80.99
 8                      4.14        400.        129.44
 8                      5.16        800.        214.74
 8                      6.39        1600.       441.84
```

```
8                       7.80        3200.       980.75
8                       9.16        6400.       1891.44
8                       10.41       12800.      3516.14
8                       11.75       25600.      6548.98
8                       13.26       51200.      11081.19
9 ENDTBL
2 XSECTN    020         1.0         7.3                                 REACHC
8                       0.          0.0         0.0
8                       1.01        100.        57.78
8                       1.49        200.        86.81
8                       1.88        300.        110.25
8                       2.49        500.        149.47
8                       3.68        1000.       226.31
8                       5.40        2000.       346.26
8                       7.85        4000.       533.39
8                       9.64        6000.       688.07
8                       11.16       8000.       838.10
8                       12.46       10000.      985.31
8                       13.61       12000.      1122.03
8                       14.56       14000.      1236.94
8                       15.43       16000.      1345.18
8                       16.31       18000.      1456.68
9 ENDTBL
2 XSECTN    025         1.0         7.3                                 REACHB
8                       0.          0.0         0.0
8                       0.63        100.        80.89
8                       0.93        200.        120.32
8                       1.17        300.        151.77
8                       1.56        500.        203.28
8                       2.30        1000.       302.00
8                       3.38        2000.       449.24
8                       4.97        4000.       673.73
8                       6.23        6000.       855.96
8                       7.31        8000.       1016.35
8                       8.24        10000.      1158.51
8                       9.09        12000.      1293.31
8                       9.90        14000.      1425.57
8                       10.64       16000.      1549.17
8                       11.36       18000.      1673.11
9 ENDTBL
2 XSECTN    030         1.0         9.45                                BOSSCS#6
8                       0.          0.0         0.0
8                       0.77        5.          4.67
8                       1.54        50.         32.06
8                       1.78        100.        56.64
8                       2.10        200.        100.59
8                       2.50        400.        179.97
8                       3.01        800.        320.25
8                       3.63        1600.       589.66
8                       4.35        3200.       1110.72
8                       5.21        6400.       2084.48
8                       6.03        12800.      4119.83
8                       6.99        25600.      6856.75
8                       8.28        51200.      11085.87
9 ENDTBL
2 XSECTN    045         1.0         4.87                                REACHA
```

**********80-80 LIST OF INPUT DATA (CONTINUED)**********

```
8                       0.          0.0         0.0
8                       0.60        100.        85.69
8                       0.90        200.        127.94
8                       1.13        300.        161.93
8                       1.52        500.        217.27
8                       2.25        1000.       324.03
8                       3.31        2000.       483.02
8                       4.87        4000.       722.17
8                       6.09        6000.       914.99
8                       7.15        8000.       1084.61
8                       8.05        10000.      1234.17
8                       8.87        12000.      1373.80
8                       9.64        14000.      1507.84
8                       10.34       16000.      1633.45
8                       11.00       18000.      1753.12
9 ENDTBL
2 XSECTN    060         1.0         4.7                                 2CP6CP7
8                       0.          0.0         0.0
8                       2.36        100.        45.12
8                       2.88        200.        83.75
8                       3.18        300.        114.33
8                       3.64        500.        172.72
8                       4.42        1000.       289.04
8                       5.40        2000.       470.72
8                       6.87        4000.       782.74
8                       7.91        6000.       1020.12
8                       8.79        8000.       1231.25
8                       9.60        10000.      1435.05
8                       10.26       12000.      1618.34
8                       10.94       14000.      1812.58
8                       11.47       16000.      1983.46
8                       11.96       18000.      2150.12
9 ENDTBL
2 XSECTN    067         1.0         8.77                                BOSSCS#5
8                       0.          0.0         0.0
8                       0.35        5.          5.56
8                       1.03        50.         30.95
8                       1.39        100.        52.16
8                       1.94        200.        88.72
8                       2.63        400.        148.61
8                       3.51        800.        260.63
8                       4.62        1600.       459.66
8                       6.04        3200.       929.36
8                       7.38        6400.       1811.51
8                       8.77        12800.      3374.20
8                       10.17       25600.      6398.87
8                       11.89       51200.      10982.51
9 ENDTBL
3 STRUCT       01                                                       95/11/6
8                       1178.0      0.00        0.0
8                       1188.0      2.71        44.8
8                       1193.0      7.29        129.0
8                       1199.2      26.75       500.0
8                       1202.0      38.68       845.55
8                       1204.0      48.00       1176.28
8                       1206.0      56.80       1575.25
```

```
**********************80-80 LIST OF INPUT DATA (CONTINUED)**********************

 8                        1208.0      66.40       2044.97
 8                        1210.0      77.10       2593.40
 8                        1212.0      85.95       3218.00
 8                        1213.0      2685.00     3556.67
 8                        1214.0      8231.00     3916.02
 8                        1215.0      15545.0     4294.13
 8                        1216.0      24272.0     4692.68
 8                        1217.0      34212.0     5113.19
 8                        1218.0      45232.0     5556.01
 8                        1219.0      57233.0     6021.50
 8                        1220.0      70142.0     6509.75
 9 ENDTBL
 6 RUNOFF 1 001       1 2.46        87.2        0.85        1 1
 6 REACH  3 005   1   7 9100.                               1           BOSS#6
 6 REACH  3 010   7   2 9100.                               1           BOSS#4
 6 RUNOFF 1 002       3 2.38        79.9        0.73        1 1
 6 ADDHYD 4 012   2 3 1                                     1 1
 6 DIVERT 6 012   1 4 7 4100.       1.00        200.        1 1         OLIVE
 6 REACH  3 020   4   7 3332.                               1           REACH C
 6 REACH  3 025   7   5 1950.                               1           REACH B
 6 RUNOFF 1 003       6 3.94        87.2        0.88        1 1
 6 REACH  3 030   6   7 8865.                               1           BOSS#6
 6 REACH  3 005   7   1 8865.                               1           BOSS#5
 6 REACH  3 025   1   7 1950.                               1           REACH B
 6 RUNOFF 1 004       1 2.06        77.3        0.79        1 1
 6 ADDHYD 4 034   7 1 2                                     1 1
 6 ADDHYD 4 035   5 2 3                                     1 1
 6 DIVERT 6 035   3 4 7 11000.      1.00        199.        1 1         NORTHERN
 6 REACH  3 045   4   5 4200.                               1           REACH A
 6 RUNOFF 1 006       2 1.47        87.7        0.47        1 1
 6 REACH  3 060   2   3 7540.                               1           CP6CP7
 6 REACH  3 067   3   4 5140.                               1           BOSS#5
 6 ADDHYD 4 064   5 4 3                                     1 1
 6 RUNOFF 1 005       6 4.78        78.8        0.78        1 1
 6 RUNOFF 1 007       7 3.48        81.7        1.01        1 1
 6 ADDHYD 4 075   6 7 1                                     1 1
 6 ADDHYD 4 076   1 3 2                                     1 1     1
 6 RESVOR 2    01 2   1 1204.56                             1 1     1
ENDATA
 7 LIST                 1.0                       1.
 7 INCREM 6             1.05
 7 COMPUT 7 001      01 0.          1.0         1.0         1 2  01  01
   ENDCMP 1
 7 COMPUT 7 001      01 0.          1.0         1.0         1 2  02  01
   ENDCMP 1
   ENDJOB 2

*********************************END OF 80-80 LIST*********************************
```

RUNOFF OPTION USED WITH RAINTABLE NO. 1, RUNOFF CURVE NO. = 100.

COMPUTED DIMHYD PEAK RATE FACTOR = 664.607

```
EXECUTIVE CONTROL  LIST ,          1.          0.          1.

          LISTING OF CURRENT DATA


                      COMPUTED TIME INCREMENT
DIMHYD                          .0556

                   .0000       .0300       .1000       .1900       .3100
                   .4700       .6600       .8200       .9300       .9900
                  1.0000       .9900       .9300       .8200       .6600
                   .4700       .3100       .0300       .0000       .0000
ENDTBL

   COMPUTED PEAK RATE FACTOR =  664.607
```

	TABLE NO.	TIME INCREMENT				
RAINFL	1	2.4000				
		.0000	.0010	.0035	.0061	.0086
		.0112	.0143	.0174	.0206	.0237
		.0269	.0303	.0338	.0372	.0406
		.0440	.0475	.0509	.0543	.0577
		.0612	.0658	.0704	.0750	.0796
		.0842	.0888	.0934	.0980	.1026
		.1073	.1135	.1197	.1260	.1322
		.1384	.1466	.1549	.1631	.1713
		.1796	.1878	.2004	.2150	.2296
		.2477	.2658	.2881	.3168	.3600
		.7090	1.1390	1.2850	1.3420	1.3730
		1.3950	1.4120	1.4250	1.4380	1.4480
		1.4590	1.4670	1.4750	1.4840	1.4920
		1.5000	1.5070	1.5130	1.5190	1.5260
		1.5320	1.5370	1.5410	1.5460	1.5500
		1.5550	1.5600	1.5640	1.5690	1.5740
		1.5780	1.5820	1.5850	1.5890	1.5920
		1.5960	1.5990	1.6030	1.6060	1.6100
		1.6130	1.6160	1.6180	1.6210	1.6230
		1.6260	1.6280	1.6300	1.6330	1.6350
		1.6380	1.6400	1.6400	1.6400	1.6400

ENDTBL

STANDARD CONTROL INSTRUCTIONS

```
RUNOFF      1       1      2.4600     87.2000      .85001 1 0 0 0 1
REACH       5   1   7   9100.0000       .0000      .00001 0 0 0 0 1
REACH      10   7   2   9100.0000       .0000      .00001 0 0 0 0 1
RUNOFF      2       3      2.3800     79.9000      .73001 1 0 0 0 1
ADDHYD     12   2 3 1                                   1 1 0 0 0 1
DIVERT     12   1 4 7   4100.0000      1.0000   200.00001 1 0 0 0 1
REACH      20   4   7   3332.0000       .0000      .00001 0 0 0 0 1
REACH      25   7   5   1950.0000       .0000      .00001 0 0 0 0 1
RUNOFF      3       6      3.9400     87.2000      .88001 1 0 0 0 1
REACH      30   6   7   8865.0000       .0000      .00001 0 0 0 0 1
REACH       5   7   1   8865.0000       .0000      .00001 0 0 0 0 1
REACH      25   1   7   1950.0000       .0000      .00001 0 0 0 0 1
RUNOFF      4       1      2.0600     77.3000      .79001 1 0 0 0 1
ADDHYD     34   7 1 2                                   1 1 0 0 0 1
ADDHYD     35   5 2 3                                   1 1 0 0 0 1
DIVERT     35   3 4 7  11000.0000      1.0000   199.00001 1 0 0 0 1
REACH      45   4   5   4200.0000       .0000      .00001 0 0 0 0 1
RUNOFF      6       2      1.4700     87.7000      .47001 1 0 0 0 1
REACH      60   2   3   7540.0000       .0000      .00001 0 0 0 0 1
REACH      67   3   4   5140.0000       .0000      .00001 0 0 0 0 1
ADDHYD     64   5 4 3                                   1 1 0 0 0 1
RUNOFF      5       6      4.7800     78.8000      .78001 1 0 0 0 1
RUNOFF      7       7      3.4800     81.7000     1.01001 1 0 0 0 1
ADDHYD     75   6 7 1                                   1 1 0 0 0 1
ADDHYD     76   1 3 2                                   1 1 0 0 1 1
RESVOR        1 2   1   1204.5600                       1 1 0 0 1 1
ENDATA
```

END OF LISTING

EXECUTIVE CONTROL INCREM MAIN TIME INCREMENT = 1.050 HOURS

EXECUTIVE CONTROL COMPUT FROM XSECTION 1 TO STRUCTURE 1
STARTING TIME = .00 RAIN DEPTH = 1.00 RAIN DURATION = 1.00
ANT. RUNOFF COND. = 2 MAIN TIME INCREMENT = 1.050 HOURS
ALTERNATE NO. = 1 STORM NO. = 1 RAIN TABLE NO. = 1

OPERATION RUNOFF XSECTION 1

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
121.40	290.4	(RUNOFF)
138.08	8.7	(RUNOFF)
143.29	7.3	(RUNOFF)
150.61	6.0	(RUNOFF)
164.99	4.6	(RUNOFF)
174.63	3.3	(RUNOFF)
179.55	3.3 *	(RUNOFF)
187.64	3.3	(RUNOFF)
192.22	2.6	(RUNOFF)
208.25	2.7	(RUNOFF)

* FIRST POINT OF FLAT PEAK

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 1
MAIN TIME INCREMENT = 1.050 hr, DRAINAGE AREA = 2.46 SQ.MI.

HRS								
.00 CFS	.00	.66	.66	1.45	1.65	1.68	1.72	1.71
8.40 CFS	1.65	1.65	1.71	1.72	1.92	2.05	2.05	2.05
16.80 CFS	2.05	2.11	2.11	2.06	2.05	2.08	2.11	2.13
25.20 CFS	2.25	2.25	2.31	2.31	2.27	2.25	2.25	2.25
33.60 CFS	2.25	2.25	2.25	2.30	2.31	2.29	2.25	2.25
42.00 CFS	2.25	2.25	2.25	2.25	2.29	2.31	2.48	3.04
50.40 CFS	3.04	3.04	3.04	3.04	3.04	3.04	3.04	3.04
58.80 CFS	3.04	3.04	3.04	3.04	3.04	3.04	3.04	3.04
67.20 CFS	3.04	3.04	3.04	3.09	3.11	3.51	4.10	4.10
75.60 CFS	4.10	4.10	4.16	4.16	4.12	4.10	4.10	4.10
84.00 CFS	4.11	5.40	5.42	5.47	5.48	5.46	5.42	5.42
92.40 CFS	5.42	5.42	5.48	5.48	5.44	5.42	6.18	8.33
100.80 CFS	8.41	9.58	9.65	9.65	9.65	10.62	11.96	11.96
109.20 CFS	11.96	12.01	14.43	14.74	17.28	18.96	21.33	28.55
117.60 CFS	33.56	229.35	230.66	273.71	284.13	207.45	96.47	89.78
126.00 CFS	38.02	37.66	22.09	20.48	16.69	14.54	13.75	11.23
134.40 CFS	11.10	8.71	8.59	8.59	8.59	7.72	6.61	6.68
142.80 CFS	7.27	7.25	5.50	5.29	5.29	5.29	5.46	5.95
151.20 CFS	5.91	5.31	5.29	5.29	5.29	5.02	4.63	4.55
159.60 CFS	3.96	3.96	3.96	3.96	4.38	4.63	4.48	3.96
168.00 CFS	3.95	3.32	3.30	2.79	2.64	2.93	3.30	3.22
176.40 CFS	2.65	2.64	3.25	3.30	3.30	3.30	3.13	2.64

184.80 CFS	2.68	3.27	3.30	3.30	3.30	3.03	2.64	2.64
193.20 CFS	2.64	2.63	2.05	1.98	2.38	2.64	2.49	1.98
201.60 CFS	1.99	2.64	2.64	2.11	1.98	2.26	2.64	2.56
210.00 CFS	1.99	1.98	2.58	2.64	2.22	1.98	1.98	1.98
218.40 CFS	1.95	1.35	1.32	1.83	1.98	1.70	1.32	1.39
226.80 CFS	1.98	1.97	1.39	1.32	1.32	1.32	1.49	1.98
235.20 CFS	1.95	1.34	1.32	1.85	1.98	1.72	1.32	1.17
243.60 CFS	.00							

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.68 WATERSHED INCHES; 2671 CFS-HRS; 220.7 ACRE-FEET.

*** WARNING - MAIN TIME INCREMENT (1.050) IS GREATER THAN 50% OF THE
TIME OF CONCENTRATION (.85) FOR SUBWATERSHED XSECTION 1.
THIS WILL REDUCE THE COMPUTED PEAK BY ABOUT -2.1%. ***

OPERATION REACH XSECTION 5

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
122.55	283.3	2.23
144.42	7.4	.39
151.83	5.9	.36
166.22	4.6	.32
175.87	3.3	.23
182.21	3.3	.23
189.54	3.3	.23
214.00	2.6	.18
240.45	1.9	.14

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.62 WATERSHED INCHES; 2576 CFS-HRS; 212.9 ACRE-FEET.

OPERATION REACH XSECTION 10

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
123.70	277.3	3.72
145.52	7.3	.92
153.01	5.9	.88
167.44	4.5	.78
177.05	3.2	.56
183.33	3.3	.57
190.64	3.3	.57
215.18	2.6	.44
241.65	1.9	.33

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.66 WATERSHED INCHES; 2642 CFS-HRS; 218.3 ACRE-FEET.

OPERATION RUNOFF XSECTION 2

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
78.23	4.0	(RUNOFF)
121.33	285.1	(RUNOFF)
137.49	8.3	(RUNOFF)
143.33	7.3	(RUNOFF)
154.35	5.1	(RUNOFF)
164.80	4.5	(RUNOFF)
174.61	3.2	(RUNOFF)
181.13	3.2	(RUNOFF)
188.48	3.2	(RUNOFF)
192.69	2.6	(RUNOFF)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 1
MAIN TIME INCREMENT = 1.050 hr, DRAINAGE AREA = 2.38 SQ.MI.

HRS								
.00 CFS	.00	.64	.64	1.49	1.60	1.63	1.66	1.65
8.40 CFS	1.60	1.60	1.66	1.66	1.90	1.98	1.98	1.98
16.80 CFS	1.99	2.05	2.05	1.99	1.98	2.01	2.05	2.06
25.20 CFS	2.17	2.17	2.23	2.24	2.19	2.17	2.17	2.17
33.60 CFS	2.17	2.17	2.17	2.23	2.24	2.20	2.17	2.17
42.00 CFS	2.17	2.17	2.17	2.17	2.22	2.24	2.46	2.94
50.40 CFS	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94
58.80 CFS	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94
67.20 CFS	2.94	2.94	2.94	3.00	3.00	3.49	3.96	3.96
75.60 CFS	3.96	3.96	4.03	4.03	3.98	3.96	3.96	3.96
84.00 CFS	4.03	5.24	5.24	5.30	5.31	5.27	5.24	5.24
92.40 CFS	5.24	5.24	5.30	5.31	5.26	5.24	5.96	8.06
100.80 CFS	8.11	9.32	9.33	9.33	9.33	10.46	11.57	11.57
109.20 CFS	11.57	11.57	14.21	14.26	17.19	18.35	21.32	27.62
117.60 CFS	36.73	223.11	223.11	269.22	274.90	177.77	93.34	85.77
126.00 CFS	36.44	36.28	20.57	19.82	15.53	14.06	13.20	10.87
134.40 CFS	10.74	8.33	8.31	8.31	8.31	7.35	6.39	6.48
142.80 CFS	7.03	7.03	5.17	5.11	5.11	5.11	5.32	5.75
151.20 CFS	5.73	5.11	5.11	5.11	5.11	4.77	4.48	4.39
159.60 CFS	3.84	3.84	3.84	3.84	4.32	4.48	4.29	3.84
168.00 CFS	3.80	3.20	3.20	2.63	2.56	2.88	3.20	3.12
176.40 CFS	2.56	2.56	3.17	3.20	3.20	3.20	2.99	2.56
184.80 CFS	2.57	3.20	3.20	3.20	3.20	2.85	2.56	2.56
193.20 CFS	2.56	2.55	1.94	1.92	2.41	2.56	2.37	1.92
201.60 CFS	1.96	2.56	2.56	2.00	1.92	2.24	2.56	2.47
210.00 CFS	1.92	1.92	2.53	2.56	2.10	1.92	1.92	1.92
218.40 CFS	1.91	1.28	1.28	1.85	1.92	1.58	1.28	1.37
226.80 CFS	1.92	1.91	1.29	1.28	1.28	1.28	1.48	1.92
235.20 CFS	1.88	1.28	1.28	1.84	1.92	1.59	1.28	1.10
243.60 CFS	.00							

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.67 WATERSHED INCHES; 2561 CFS-HRS; 211.6 ACRE-FEET.

*** WARNING - MAIN TIME INCREMENT (1.050) IS GREATER THAN 50% OF THE
TIME OF CONCENTRATION (.73) FOR SUBWATERSHED XSECTION 2.
THIS WILL REDUCE THE COMPUTED PEAK BY ABOUT -3.7%. ***

OPERATION ADDHYD XSECTION 12

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
121.80	488.3	(NULL)
145.48	12.4	(NULL)
150.94	11.1	(NULL)
153.00	11.0	(NULL)
165.72	8.5	(NULL)
178.68	6.0	(NULL)
181.69	6.4	(NULL)
186.07	6.0	(NULL)
188.84	6.4	(NULL)
212.28	4.7	(NULL)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 1
MAIN TIME INCREMENT = 1.050 hr, DRAINAGE AREA = 4.84 SQ.MI.

HRS								
.00 CFS	.00	.64	.64	1.93	2.20	2.81	3.18	3.29
8.40 CFS	3.29	3.30	3.33	3.32	3.59	3.69	3.84	3.97
16.80 CFS	4.02	4.09	4.09	4.08	4.09	4.09	4.10	4.13
25.20 CFS	4.27	4.29	4.44	4.47	4.47	4.48	4.46	4.43
33.60 CFS	4.42	4.42	4.42	4.48	4.48	4.49	4.48	4.47
42.00 CFS	4.43	4.42	4.42	4.42	4.47	4.48	4.74	5.24
50.40 CFS	5.36	5.78	5.93	5.97	5.98	5.98	5.98	5.98
58.80 CFS	5.98	5.98	5.98	5.98	5.98	5.98	5.98	5.98
67.20 CFS	5.98	5.98	5.98	6.04	6.04	6.56	7.06	7.33
75.60 CFS	7.83	8.00	8.11	8.12	8.12	8.12	8.10	8.07
84.00 CFS	8.13	9.34	9.35	10.28	10.61	10.70	10.71	10.70
92.40 CFS	10.67	10.66	10.72	10.72	10.72	10.72	11.42	13.48
100.80 CFS	14.04	16.88	17.51	18.48	18.85	20.07	21.21	21.87
109.20 CFS	23.01	23.40	26.14	26.24	30.83	32.77	37.69	45.80
117.60 CFS	57	249	254	434	488	433	369	316
126.00 CFS	175	139	79	63	44	37	32	27
134.40 CFS	25.04	20.52	19.70	17.87	17.16	16.00	15.00	14.49
142.80 CFS	14.08	13.80	12.26	12.32	11.17	10.62	10.66	11.05
151.20 CFS	11.13	10.89	10.99	10.61	10.46	10.07	9.76	9.50
159.60 CFS	8.61	8.45	8.01	7.85	8.30	8.44	8.54	8.34
168.00 CFS	8.30	7.34	7.19	6.17	5.92	5.85	5.93	5.98
176.40 CFS	5.72	5.77	6.01	5.89	6.26	6.43	6.28	5.86
184.80 CFS	5.76	6.01	5.91	6.28	6.44	6.14	5.86	5.68
193.20 CFS	5.35	5.23	4.59	4.55	4.66	4.61	4.63	4.44
201.60 CFS	4.46	4.71	4.59	4.43	4.51	4.51	4.62	4.66
210.00 CFS	4.42	4.47	4.70	4.59	4.50	4.49	4.26	4.01
218.40 CFS	3.92	3.27	3.24	3.40	3.30	3.25	3.17	3.13
226.80 CFS	3.38	3.32	3.08	3.20	2.85	2.67	2.81	3.24
235.20 CFS	3.32	3.09	3.20	3.37	3.29	3.28	3.18	2.88

243.60 CFS 1.47 1.26 .40

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.67 WATERSHED INCHES; 5202 CFS-HRS; 429.9 ACRE-FEET.

OPERATION DIVERT XSECTION 12
OUTPUT #1 HYDROGRAPH

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
121.80	488.3	(DIVERT)
145.48	12.4	(DIVERT)
150.94	11.1	(DIVERT)
153.00	11.0	(DIVERT)
165.72	8.5	(DIVERT)
178.68	6.0	(DIVERT)
181.69	6.4	(DIVERT)
186.07	6.0	(DIVERT)
188.84	6.4	(DIVERT)
212.28	4.7	(DIVERT)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 1
MAIN TIME INCREMENT = 1.050 hr, DRAINAGE AREA = 4.84 SQ.MI.

HRS								
.00 CFS	.00	.64	.64	1.93	2.20	2.81	3.18	3.29
8.40 CFS	3.29	3.30	3.33	3.32	3.59	3.69	3.84	3.97
16.80 CFS	4.02	4.09	4.09	4.08	4.09	4.09	4.10	4.13
25.20 CFS	4.27	4.29	4.44	4.47	4.47	4.48	4.46	4.43
33.60 CFS	4.42	4.42	4.42	4.48	4.48	4.49	4.48	4.47
42.00 CFS	4.43	4.42	4.42	4.42	4.47	4.48	4.74	5.24
50.40 CFS	5.36	5.78	5.93	5.97	5.98	5.98	5.98	5.98
58.80 CFS	5.98	5.98	5.98	5.98	5.98	5.98	5.98	5.98
67.20 CFS	5.98	5.98	5.98	6.04	6.04	6.56	7.06	7.33
75.60 CFS	7.83	8.00	8.11	8.12	8.12	8.12	8.10	8.07
84.00 CFS	8.13	9.34	9.35	10.28	10.61	10.70	10.71	10.70
92.40 CFS	10.67	10.66	10.72	10.72	10.72	10.72	11.42	13.48
100.80 CFS	14.04	16.88	17.51	18.48	18.85	20.07	21.21	21.87
109.20 CFS	23.01	23.40	26.14	26.24	30.83	32.77	37.69	45.80
117.60 CFS	57	249	254	434	488	433	369	316
126.00 CFS	175	139	79	63	44	37	32	27
134.40 CFS	25.04	20.52	19.70	17.87	17.16	16.00	15.00	14.49
142.80 CFS	14.08	13.80	12.26	12.32	11.17	10.62	10.66	11.05
151.20 CFS	11.13	10.89	10.99	10.61	10.46	10.07	9.76	9.50
159.60 CFS	8.61	8.45	8.01	7.85	8.30	8.44	8.54	8.34
168.00 CFS	8.30	7.34	7.19	6.17	5.92	5.85	5.93	5.98
176.40 CFS	5.72	5.77	6.01	5.89	6.26	6.43	6.28	5.86
184.80 CFS	5.76	6.01	5.91	6.28	6.44	6.14	5.86	5.68
193.20 CFS	5.35	5.23	4.59	4.55	4.66	4.61	4.63	4.44
201.60 CFS	4.46	4.71	4.59	4.43	4.51	4.51	4.62	4.66
210.00 CFS	4.42	4.47	4.70	4.59	4.50	4.49	4.26	4.01
218.40 CFS	3.92	3.27	3.24	3.40	3.30	3.25	3.17	3.13
226.80 CFS	3.38	3.32	3.08	3.20	2.85	2.67	2.81	3.24

235.20 CFS	3.32	3.09	3.20	3.37	3.29	3.28	3.18	2.88
243.60 CFS	1.47	1.26	.40					

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.67 WATERSHED INCHES; 5202 CFS-HRS; 429.9 ACRE-FEET.

OUTPUT #2 DIVERTED HYDROGRAPH (XSECTION 200)

*** MESSAGE - HYDROGRAPH CONTAINS NO FLOW ***

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
237 CFS-HRS; 429.9 ACRE-FEET.

*** WARNING - ROUTING COEFFICIENT (C) EQUALS 1.0,
CONSIDER SMALLER MAIN TIME INCREMENT FOR XSECTION 20. ***

OPERATION REACH XSECTION 20

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
121.80	488.3	2.45
145.48	12.4	.13
150.94	11.1	.11
153.00	11.0	.11
165.72	8.5	.09
178.68	6.0	.06
181.69	6.4	.06
186.07	6.0	.06
188.84	6.4	.07
212.28	4.7	.05

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.67 WATERSHED INCHES; 5202 CFS-HRS; 429.9 ACRE-FEET.

*** WARNING - ROUTING COEFFICIENT (C) EQUALS 1.0,
CONSIDER SMALLER MAIN TIME INCREMENT FOR XSECTION 25. ***

OPERATION REACH XSECTION 25

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
121.80	488.3	1.54
145.48	12.4	.08
150.94	11.1	.07
153.00	11.0	.07
165.72	8.5	.05
178.68	6.0	.04
181.69	6.4	.04
186.07	6.0	.04
188.84	6.4	.04
212.28	4.7	.03

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.67 WATERSHED INCHES; 5202 CFS-HRS; 429.9 ACRE-FEET.

OPERATION RUNOFF XSECTION 3

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
121.39	461.9	(RUNOFF)
126.52	63.0	(RUNOFF)
138.08	13.8	(RUNOFF)
143.32	11.7	(RUNOFF)
150.67	9.6	(RUNOFF)
154.88	8.5	(RUNOFF)
165.01	7.4	(RUNOFF)
174.70	5.3	(RUNOFF)
181.12	5.2	(RUNOFF)
186.90	5.2 *	(RUNOFF)

* FIRST POINT OF FLAT PEAK

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 1
MAIN TIME INCREMENT = 1.050 hr, DRAINAGE AREA = 3.94 SQ.MI.

HRS								
.00 CFS	.00	1.05	1.05	2.37	2.62	2.67	2.73	2.72
8.40 CFS	2.62	2.62	2.72	2.73	3.06	3.25	3.25	3.25
16.80 CFS	3.26	3.36	3.36	3.27	3.25	3.30	3.36	3.38
25.20 CFS	3.57	3.57	3.67	3.67	3.61	3.57	3.57	3.57
33.60 CFS	3.57	3.57	3.57	3.66	3.67	3.63	3.57	3.57
42.00 CFS	3.57	3.57	3.57	3.57	3.64	3.67	3.91	4.83
50.40 CFS	4.83	4.83	4.83	4.83	4.83	4.83	4.83	4.83
58.80 CFS	4.83	4.83	4.83	4.83	4.83	4.83	4.83	4.83
67.20 CFS	4.83	4.83	4.83	4.92	4.93	5.55	6.51	6.51
75.60 CFS	6.51	6.51	6.61	6.61	6.55	6.51	6.51	6.51
84.00 CFS	6.54	8.59	8.61	8.70	8.71	8.67	8.61	8.61
92.40 CFS	8.61	8.61	8.71	8.71	8.65	8.61	9.50	13.23
100.80 CFS	13.26	15.31	15.33	15.33	15.33	16.76	19.00	19.00
109.20 CFS	19.00	19.00	23.26	23.41	27.69	30.13	33.19	45.35
117.60 CFS	49	364	366	437	451	331	153	147
126.00 CFS	59.84	59.84	34.19	32.54	26.67	23.10	22.09	17.85

134.40 CFS	17.77	13.69	13.65	13.65	13.65	12.40	10.50	10.57
142.80 CFS	11.55	11.54	8.50	8.40	8.40	8.40	8.60	9.45
151.20 CFS	9.44	8.40	8.40	8.40	8.40	7.98	7.35	7.29
159.60 CFS	6.30	6.30	6.30	6.30	6.95	7.35	7.14	6.30
168.00 CFS	6.28	5.26	5.25	4.39	4.20	4.62	5.25	5.17
176.40 CFS	4.20	4.20	5.22	5.25	5.25	5.25	5.05	4.20
184.80 CFS	4.20	5.25	5.25	5.25	5.25	4.83	4.20	4.20
193.20 CFS	4.20	4.20	3.21	3.15	3.81	4.20	3.99	3.15
201.60 CFS	3.17	4.19	4.20	3.33	3.15	3.57	4.20	4.12
210.00 CFS	3.15	3.15	4.16	4.20	3.54	3.15	3.15	3.15
218.40 CFS	3.14	2.10	2.10	2.98	3.15	2.74	2.10	2.16
226.80 CFS	3.15	3.15	2.16	2.10	2.10	2.10	2.31	3.15
235.20 CFS	3.13	2.11	2.10	2.98	3.15	2.73	2.10	1.94
243.60 CFS	.00							

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.67 WATERSHED INCHES; 4251 CFS-HRS; 351.3 ACRE-FEET.

*** WARNING - MAIN TIME INCREMENT (1.050) IS GREATER THAN 50% OF THE
TIME OF CONCENTRATION (.88) FOR SUBWATERSHED XSECTION 3.
THIS WILL REDUCE THE COMPUTED PEAK BY ABOUT -2.3%. ***

OPERATION REACH XSECTION 30

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
122.60	444.1	2.56
144.45	11.7	.88
151.93	9.4	.85
166.33	7.2	.81
175.98	5.2	.77
182.27	5.3	.77
189.57	5.3	.77
204.49	4.2	.64
209.58	4.1	.64
214.02	4.1	.64

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.61 WATERSHED INCHES; 4102 CFS-HRS; 339.0 ACRE-FEET.

OPERATION REACH XSECTION 5

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
123.73	437.4	2.71
145.53	11.6	.45
153.06	9.4	.42
167.50	7.2	.38
177.12	5.2	.35
183.39	5.2	.35
190.65	5.3	.35
205.63	4.1	.29
210.71	4.1	.29
215.18	4.1	.29

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.65 WATERSHED INCHES; 4198 CFS-HRS; 347.0 ACRE-FEET.

*** WARNING - ROUTING COEFFICIENT (C) EQUALS 1.0,
CONSIDER SMALLER MAIN TIME INCREMENT FOR XSECTION 25. ***

OPERATION REACH XSECTION 25

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
123.73	437.4	1.44
145.53	11.6	.07
153.06	9.4	.06
167.50	7.2	.05
177.12	5.2	.03
183.39	5.2	.03
190.65	5.3	.03
205.63	4.1	.03
210.71	4.1	.03
215.18	4.1	.03

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.65 WATERSHED INCHES; 4198 CFS-HRS; 347.0 ACRE-FEET.

OPERATION RUNOFF XSECTION 4

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
121.36	245.1	(RUNOFF)
138.08	7.3	(RUNOFF)
143.27	6.1	(RUNOFF)
154.88	4.5	(RUNOFF)
164.96	3.9	(RUNOFF)
193.72	2.2	(RUNOFF)
198.49	2.2	(RUNOFF)
203.17	2.3	(RUNOFF)
208.22	2.2	(RUNOFF)
212.72	2.2	(RUNOFF)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 1
MAIN TIME INCREMENT = 1.050 hr, DRAINAGE AREA = 2.06 SQ.MI.

HRS								
.00 CFS	.00	.55	.55	1.25	1.38	1.41	1.44	1.43
8.40 CFS	1.38	1.38	1.43	1.44	1.63	1.72	1.72	1.72
16.80 CFS	1.72	1.77	1.77	1.72	1.72	1.74	1.77	1.78
25.20 CFS	1.88	1.88	1.93	1.94	1.90	1.88	1.88	1.88
33.60 CFS	1.88	1.88	1.88	1.93	1.94	1.91	1.88	1.88
42.00 CFS	1.88	1.88	1.88	1.88	1.92	1.94	2.09	2.55
50.40 CFS	2.55	2.55	2.55	2.55	2.55	2.55	2.55	2.55
58.80 CFS	2.55	2.55	2.55	2.55	2.55	2.55	2.55	2.55
67.20 CFS	2.55	2.55	2.55	2.59	2.60	2.97	3.43	3.43
75.60 CFS	3.43	3.43	3.48	3.49	3.45	3.43	3.43	3.43
84.00 CFS	3.47	4.54	4.54	4.58	4.59	4.57	4.54	4.54
92.40 CFS	4.54	4.54	4.59	4.59	4.56	4.54	5.24	6.97
100.80 CFS	6.98	8.08	8.08	8.08	8.08	9.01	10.02	10.02
109.20 CFS	10.02	10.02	12.18	12.34	14.81	15.88	18.22	23.90
117.60 CFS	29.21	189.88	193.12	230.82	237.94	161.93	80.79	74.74
126.00 CFS	31.54	31.45	18.30	17.15	13.66	12.17	11.39	9.41
134.40 CFS	9.29	7.25	7.19	7.19	7.19	6.41	5.53	5.60
142.80 CFS	6.09	6.06	4.55	4.43	4.43	4.43	4.57	4.98
151.20 CFS	4.95	4.44	4.43	4.43	4.43	4.18	3.87	3.80
159.60 CFS	3.32	3.32	3.32	3.32	3.68	3.87	3.75	3.32
168.00 CFS	3.29	2.77	2.77	2.31	2.21	2.46	2.77	2.70
176.40 CFS	2.21	2.21	2.75	2.77	2.77	2.77	2.62	2.21
184.80 CFS	2.23	2.77	2.77	2.77	2.77	2.51	2.21	2.21
193.20 CFS	2.21	2.21	1.68	1.66	2.03	2.21	2.06	1.66
201.60 CFS	1.66	2.21	2.21	1.75	1.66	1.92	2.21	2.14
210.00 CFS	1.66	1.66	2.18	2.21	1.83	1.66	1.66	1.66
218.40 CFS	1.64	1.12	1.11	1.57	1.66	1.39	1.11	1.17
226.80 CFS	1.66	1.66	1.15	1.11	1.11	1.11	1.26	1.66
235.20 CFS	1.63	1.12	1.11	1.57	1.66	1.40	1.11	.97
243.60 CFS	.00							

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.67 WATERSHED INCHES; 2219 CFS-HRS; 183.4 ACRE-FEET.

*** WARNING - MAIN TIME INCREMENT (1.050) IS GREATER THAN 50% OF THE
TIME OF CONCENTRATION (.79) FOR SUBWATERSHED XSECTION 4.
THIS WILL REDUCE THE COMPUTED PEAK BY ABOUT -3.0%. ***

OPERATION ADDHYD XSECTION 34

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
80.58	10.0	(NULL)
122.26	578.6	(NULL)
145.46	16.1	(NULL)
153.05	13.8	(NULL)
166.39	10.5	(NULL)
189.08	7.9	(NULL)
214.94	5.8	(NULL)
229.70	4.2	(NULL)
237.42	4.1	(NULL)
241.03	4.1	(NULL)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 1
MAIN TIME INCREMENT = 1.050 hr, DRAINAGE AREA = 6.00 SQ.MI.

HRS								
.00 CFS	.00	.55	.55	1.92	2.32	3.27	3.82	4.01
8.40 CFS	4.07	4.09	4.09	4.07	4.32	4.43	4.65	4.86
16.80 CFS	4.94	5.01	5.02	5.04	5.06	5.04	5.04	5.07
25.20 CFS	5.21	5.24	5.43	5.48	5.53	5.54	5.51	5.47
33.60 CFS	5.46	5.45	5.45	5.50	5.51	5.53	5.54	5.52
42.00 CFS	5.48	5.46	5.45	5.45	5.49	5.51	5.70	6.20
50.40 CFS	6.37	7.02	7.27	7.34	7.37	7.37	7.37	7.37
58.80 CFS	7.37	7.37	7.37	7.37	7.37	7.37	7.37	7.37
67.20 CFS	7.37	7.37	7.37	7.42	7.43	7.86	8.35	8.75
75.60 CFS	9.53	9.82	9.96	9.99	10.02	10.03	10.00	9.96
84.00 CFS	9.98	11.05	11.07	12.43	12.97	13.17	13.22	13.21
92.40 CFS	13.17	13.15	13.20	13.20	13.23	13.24	13.90	15.60
100.80 CFS	16.16	19.87	20.90	22.53	23.14	24.26	25.32	26.26
109.20 CFS	28.06	28.73	31.10	31.32	36.53	38.78	44.23	52.66
117.60 CFS	61	230	239	481	569	564	517	445
126.00 CFS	260	203	116	88	60	49	41	35
134.40 CFS	32.39	26.91	25.52	22.51	21.34	20.20	19.22	18.46
142.80 CFS	17.40	16.85	15.81	15.88	13.99	13.18	13.07	13.40
151.20 CFS	13.48	13.56	13.77	13.18	12.93	12.60	12.28	11.93
159.60 CFS	10.94	10.71	10.00	9.73	10.01	10.18	10.46	10.46
168.00 CFS	10.44	9.37	9.14	7.96	7.58	7.19	7.13	7.21
176.40 CFS	7.20	7.33	7.28	7.07	7.64	7.90	7.84	7.45
184.80 CFS	7.35	7.29	7.06	7.66	7.91	7.73	7.45	7.19
193.20 CFS	6.68	6.49	5.91	5.86	5.60	5.49	5.66	5.66
201.60 CFS	5.66	5.67	5.47	5.59	5.75	5.54	5.51	5.60
210.00 CFS	5.60	5.73	5.66	5.46	5.66	5.74	5.41	5.01
218.40 CFS	4.85	4.28	4.25	4.05	3.87	4.09	4.11	4.02
226.80 CFS	4.02	3.87	3.96	4.15	3.59	3.32	3.40	3.77
235.20 CFS	3.87	3.95	4.15	4.02	3.86	4.09	4.11	3.80

243.60 CFS 2.36 2.07 .73 .22

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.66 WATERSHED INCHES; 6418 CFS-HRS; 530.4 ACRE-FEET.

OPERATION ADDHYD XSECTION 35

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
122.01	1061.9	(NULL)
145.47	28.5	(NULL)
153.03	24.8	(NULL)
166.06	19.0	(NULL)
175.15	13.2	(NULL)
178.35	13.3	(NULL)
181.83	14.3	(NULL)
185.71	13.3	(NULL)
188.96	14.4	(NULL)
214.86	10.3	(NULL)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 1
MAIN TIME INCREMENT = 1.050 hr, DRAINAGE AREA = 10.84 SQ.MI.

HRS								
.00 CFS	.00	1.19	1.19	3.85	4.52	6.08	7.00	7.30
8.40 CFS	7.36	7.40	7.42	7.39	7.91	8.12	8.49	8.83
16.80 CFS	8.96	9.10	9.12	9.12	9.15	9.13	9.14	9.20
25.20 CFS	9.49	9.54	9.87	9.96	10.00	10.02	9.96	9.90
33.60 CFS	9.88	9.87	9.87	9.97	9.99	10.02	10.02	9.99
42.00 CFS	9.91	9.88	9.87	9.87	9.95	9.99	10.44	11.44
50.40 CFS	11.73	12.80	13.20	13.31	13.34	13.35	13.35	13.35
58.80 CFS	13.35	13.35	13.35	13.35	13.35	13.35	13.35	13.35
67.20 CFS	13.35	13.35	13.35	13.45	13.47	14.42	15.41	16.09
75.60 CFS	17.36	17.82	18.07	18.11	18.14	18.15	18.09	18.03
84.00 CFS	18.11	20.38	20.42	22.71	23.58	23.86	23.93	23.92
92.40 CFS	23.84	23.82	23.92	23.92	23.94	23.95	25.32	29.08
100.80 CFS	30.20	36.75	38.41	41.00	41.99	44.34	46.53	48.13
109.20 CFS	51.07	52.13	57.24	57.56	67.36	71.55	81.92	98.45
117.60 CFS	118	479	494	915	1058	997	886	761
126.00 CFS	436	342	195	151	104	86	73	61
134.40 CFS	57.42	47.43	45.22	40.37	38.49	36.20	34.21	32.95
142.80 CFS	31.48	30.65	28.08	28.21	25.17	23.80	23.72	24.46
151.20 CFS	24.62	24.45	24.77	23.79	23.39	22.67	22.04	21.43
159.60 CFS	19.55	19.16	18.01	17.58	18.31	18.62	19.00	18.80
168.00 CFS	18.74	16.71	16.34	14.13	13.50	13.04	13.07	13.19
176.40 CFS	12.92	13.10	13.29	12.96	13.90	14.33	14.12	13.31
184.80 CFS	13.11	13.30	12.97	13.95	14.35	13.87	13.31	12.87
193.20 CFS	12.03	11.72	10.49	10.42	10.25	10.10	10.30	10.10
201.60 CFS	10.13	10.38	10.06	10.03	10.26	10.05	10.13	10.26
210.00 CFS	10.01	10.20	10.36	10.05	10.15	10.24	9.67	9.02
218.40 CFS	8.77	7.55	7.49	7.44	7.17	7.34	7.28	7.15
226.80 CFS	7.40	7.19	7.04	7.36	6.44	5.99	6.21	7.01
235.20 CFS	7.19	7.03	7.34	7.39	7.16	7.37	7.28	6.69

243.60 CFS 3.83 3.33 1.14 .32

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.66 WATERSHED INCHES; 11620 CFS-HRS; 960.3 ACRE-FEET.

OPERATION DIVERT XSECTION 35
OUTPUT #1 HYDROGRAPH

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
122.01	1061.9	(DIVERT)
145.47	28.5	(DIVERT)
153.03	24.8	(DIVERT)
166.06	19.0	(DIVERT)
175.15	13.2	(DIVERT)
178.35	13.3	(DIVERT)
181.83	14.3	(DIVERT)
185.71	13.3	(DIVERT)
188.96	14.4	(DIVERT)
214.86	10.3	(DIVERT)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 1
MAIN TIME INCREMENT = 1.050 hr, DRAINAGE AREA = 10.84 SQ.MI.

HRS								
.00 CFS	.00	1.19	1.19	3.85	4.52	6.08	7.00	7.30
8.40 CFS	7.36	7.40	7.42	7.39	7.91	8.12	8.49	8.83
16.80 CFS	8.96	9.10	9.12	9.12	9.15	9.13	9.14	9.20
25.20 CFS	9.49	9.54	9.87	9.96	10.00	10.02	9.96	9.90
33.60 CFS	9.88	9.87	9.87	9.97	9.99	10.02	10.02	9.99
42.00 CFS	9.91	9.88	9.87	9.87	9.95	9.99	10.44	11.44
50.40 CFS	11.73	12.80	13.20	13.31	13.34	13.35	13.35	13.35
58.80 CFS	13.35	13.35	13.35	13.35	13.35	13.35	13.35	13.35
67.20 CFS	13.35	13.35	13.35	13.45	13.47	14.42	15.41	16.09
75.60 CFS	17.36	17.82	18.07	18.11	18.14	18.15	18.09	18.03
84.00 CFS	18.11	20.38	20.42	22.71	23.58	23.86	23.93	23.92
92.40 CFS	23.84	23.82	23.92	23.92	23.94	23.95	25.32	29.08
100.80 CFS	30.20	36.75	38.41	41.00	41.99	44.34	46.53	48.13
109.20 CFS	51.07	52.13	57.24	57.56	67.36	71.55	81.92	98.45
117.60 CFS	118	479	494	915	1058	997	886	761
126.00 CFS	436	342	195	151	104	86	73	61
134.40 CFS	57.42	47.43	45.22	40.37	38.49	36.20	34.21	32.95
142.80 CFS	31.48	30.65	28.08	28.21	25.17	23.80	23.72	24.46
151.20 CFS	24.62	24.45	24.77	23.79	23.39	22.67	22.04	21.43
159.60 CFS	19.55	19.16	18.01	17.58	18.31	18.62	19.00	18.80
168.00 CFS	18.74	16.71	16.34	14.13	13.50	13.04	13.07	13.19
176.40 CFS	12.92	13.10	13.29	12.96	13.90	14.33	14.12	13.31
184.80 CFS	13.11	13.30	12.97	13.95	14.35	13.87	13.31	12.87
193.20 CFS	12.03	11.72	10.49	10.42	10.25	10.10	10.30	10.10
201.60 CFS	10.13	10.38	10.06	10.03	10.26	10.05	10.13	10.26
210.00 CFS	10.01	10.20	10.36	10.05	10.15	10.24	9.67	9.02
218.40 CFS	8.77	7.55	7.49	7.44	7.17	7.34	7.28	7.15
226.80 CFS	7.40	7.19	7.04	7.36	6.44	5.99	6.21	7.01

235.20 CFS	7.19	7.03	7.34	7.39	7.16	7.37	7.28	6.69
243.60 CFS	3.83	3.33	1.14	.32				

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.66 WATERSHED INCHES; 11620 CFS-HRS; 960.3 ACRE-FEET.

OUTPUT #2 DIVERTED HYDROGRAPH (XSECTION 199)

*** MESSAGE - HYDROGRAPH CONTAINS NO FLOW ***

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
238 CFS-HRS; 960.3 ACRE-FEET.

*** WARNING - ROUTING COEFFICIENT (C) EQUALS 1.0,
CONSIDER SMALLER MAIN TIME INCREMENT FOR XSECTION 45. ***

OPERATION REACH XSECTION 45

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
122.01	1061.9	2.32
145.47	28.5	.17
153.03	24.8	.15
166.06	19.0	.11
175.15	13.2	.08
178.35	13.3	.08
181.83	14.3	.09
185.71	13.3	.08
188.96	14.4	.09
214.86	10.3	.06

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.66 WATERSHED INCHES; 11620 CFS-HRS; 960.3 ACRE-FEET.

OPERATION RUNOFF XSECTION 6

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
121.27	178.9	(RUNOFF)
143.18	4.5	(RUNOFF)
150.54	3.7	(RUNOFF)
169.58	2.1	(RUNOFF)
174.29	2.0	(RUNOFF)
181.13	2.1	(RUNOFF)
188.48	2.1	(RUNOFF)
212.62	1.7	(RUNOFF)
234.63	1.2	(RUNOFF)
239.03	1.2	(RUNOFF)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 1
MAIN TIME INCREMENT = 1.050 hr, DRAINAGE AREA = 1.47 SQ.MI.

HRS								
2.10 CFS	.41	.95	1.02	1.04	1.06	1.05	1.02	1.02
10.50 CFS	1.06	1.06	1.22	1.26	1.26	1.26	1.27	1.30
18.90 CFS	1.30	1.26	1.26	1.29	1.30	1.33	1.38	1.39
27.30 CFS	1.42	1.42	1.39	1.38	1.38	1.38	1.38	1.38
35.70 CFS	1.39	1.42	1.42	1.39	1.38	1.38	1.38	1.38
44.10 CFS	1.38	1.38	1.42	1.42	1.68	1.87	1.87	1.87
52.50 CFS	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87
60.90 CFS	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87
69.30 CFS	1.87	1.91	1.91	2.31	2.52	2.52	2.52	2.52
77.70 CFS	2.56	2.56	2.53	2.52	2.52	2.52	2.57	3.34
86.10 CFS	3.34	3.37	3.38	3.35	3.34	3.34	3.34	3.34
94.50 CFS	3.38	3.38	3.34	3.34	4.29	5.13	5.29	5.94
102.90 CFS	5.94	5.94	5.94	7.05	7.37	7.37	7.37	7.58
111.30 CFS	9	9	12	12	15	18	49	142
119.70 CFS	144	175	175	82	59	45	23	22
128.10 CFS	12.62	12.62	9.38	8.96	7.83	6.92	6.58	5.29
136.50 CFS	5.29	5.29	5.29	4.46	4.07	4.20	4.48	4.43
144.90 CFS	3.29	3.26	3.26	3.26	3.45	3.66	3.63	3.26
153.30 CFS	3.26	3.26	3.26	3.00	2.85	2.75	2.44	2.44
161.70 CFS	2.44	2.44	2.76	2.85	2.66	2.44	2.40	2.04
170.10 CFS	2.04	1.66	1.63	1.91	2.04	1.90	1.63	1.66
178.50 CFS	2.04	2.04	2.04	2.04	1.81	1.63	1.72	2.04
186.90 CFS	2.04	2.04	2.04	1.71	1.63	1.63	1.63	1.57
195.30 CFS	1.22	1.22	1.63	1.63	1.39	1.22	1.32	1.63
203.70 CFS	1.61	1.22	1.22	1.53	1.63	1.47	1.22	1.26
212.10 CFS	1.63	1.63	1.28	1.22	1.22	1.22	1.15	.81
220.50 CFS	.81	1.19	1.22	.95	.81	.92	1.22	1.22
228.90 CFS	.83	.81	.81	.81	1.00	1.22	1.21	.82
237.30 CFS	.81	1.18	1.22	.96	.81	.61	.00	

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.68 WATERSHED INCHES; 1598 CFS-HRS; 132.0 ACRE-FEET.

*** WARNING - MAIN TIME INCREMENT (1.050) IS GREATER THAN 50% OF THE
TIME OF CONCENTRATION (.47) FOR SUBWATERSHED XSECTION 6.
THIS WILL REDUCE THE COMPUTED PEAK BY ABOUT -2.3%. ***

OPERATION REACH XSECTION 60

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
122.40	180.7	2.78
144.39	4.5	.11
151.78	3.7	.09
165.88	2.8	.07
182.19	2.1	.05
189.53	2.1	.05
213.87	1.6	.04
223.45	1.2	.03
228.53	1.2	.03
235.83	1.2	.03

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.67 WATERSHED INCHES; 1587 CFS-HRS; 131.1 ACRE-FEET.

*** WARNING - ROUTING COEFFICIENT (C) EQUALS 1.0,
CONSIDER SMALLER MAIN TIME INCREMENT FOR XSECTION 67. ***

OPERATION REACH XSECTION 67

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
122.40	180.7	1.83
144.39	4.5	.32
151.78	3.7	.26
165.88	2.8	.20
182.19	2.1	.14
189.53	2.1	.14
213.87	1.6	.11
223.45	1.2	.08
228.53	1.2	.09
235.83	1.2	.09

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.67 WATERSHED INCHES; 1587 CFS-HRS; 131.1 ACRE-FEET.

OPERATION ADDHYD XSECTION 64

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
122.07	1233.0	(NULL)
152.80	28.2	(NULL)
166.01	21.8	(NULL)
175.28	15.2	(NULL)
181.83	16.4	(NULL)
186.13	15.0	(NULL)
188.96	16.4	(NULL)
214.17	11.8	(NULL)
229.44	8.4	(NULL)
240.47	8.6	(NULL)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 1
MAIN TIME INCREMENT = 1.050 hr, DRAINAGE AREA = 12.31 SQ.MI.

HRS								
.00 CFS	.00	1.19	1.52	4.24	5.36	7.06	8.03	8.35
8.40 CFS	8.41	8.42	8.44	8.44	8.97	9.31	9.73	10.09
16.80 CFS	10.22	10.37	10.41	10.42	10.42	10.40	10.43	10.50
25.20 CFS	10.81	10.91	11.25	11.37	11.42	11.41	11.35	11.28
33.60 CFS	11.26	11.25	11.25	11.36	11.41	11.44	11.41	11.38
42.00 CFS	11.29	11.26	11.25	11.25	11.34	11.40	11.86	13.07
50.40 CFS	13.55	14.66	15.07	15.18	15.21	15.22	15.22	15.22
58.80 CFS	15.22	15.22	15.22	15.22	15.22	15.22	15.22	15.22
67.20 CFS	15.22	15.22	15.22	15.33	15.37	16.33	17.63	18.55
75.60 CFS	19.87	20.34	20.59	20.66	20.70	20.69	20.62	20.55
84.00 CFS	20.64	22.95	23.60	26.01	26.94	27.24	27.28	27.26
92.40 CFS	27.18	27.15	27.26	27.29	27.32	27.30	28.66	33.18
100.80 CFS	35.12	41.97	44.21	46.92	47.93	50.28	53.35	55.39
109.20 CFS	58	59	65	66	76	83	93	113
117.60 CFS	135	522	616	1054	1226	1171	987	829
126.00 CFS	485	371	218	166	117	96	82	69
134.40 CFS	64.59	54.13	50.80	45.72	43.80	41.49	38.84	37.13
142.80 CFS	35.67	35.07	32.51	31.73	28.48	27.06	26.98	27.86
151.20 CFS	28.23	28.08	28.10	27.06	26.65	25.93	25.09	24.32
159.60 CFS	22.33	21.67	20.46	20.03	20.75	21.32	21.82	21.49
168.00 CFS	21.23	19.13	18.45	16.18	15.24	14.69	14.92	15.19
176.40 CFS	14.84	14.79	14.95	14.91	15.92	16.36	16.15	15.16
184.80 CFS	14.78	15.01	14.94	15.97	16.38	15.91	15.08	14.52
193.20 CFS	13.67	13.35	12.08	11.71	11.49	11.65	11.91	11.54
201.60 CFS	11.39	11.69	11.62	11.62	11.56	11.28	11.61	11.86
210.00 CFS	11.51	11.47	11.63	11.61	11.77	11.59	10.91	10.25
218.40 CFS	9.99	8.71	8.38	8.27	8.28	8.53	8.28	8.00
226.80 CFS	8.31	8.34	8.25	8.26	7.27	6.81	7.02	7.97
235.20 CFS	8.35	8.24	8.24	8.22	8.27	8.57	8.29	7.54
243.60 CFS	4.48	3.46	1.16	.32				

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.66 WATERSHED INCHES; 13207 CFS-HRS; 1091.4 ACRE-FEET.

OPERATION RUNOFF XSECTION 5

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
78.28	8.1	(RUNOFF)
121.36	569.3	(RUNOFF)
138.08	16.9	(RUNOFF)
143.30	14.3	(RUNOFF)
150.60	11.7	(RUNOFF)
164.86	9.0	(RUNOFF)
174.64	6.5	(RUNOFF)
180.43	6.4	(RUNOFF)
188.48	6.5	(RUNOFF)
208.22	5.2	(RUNOFF)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 1
MAIN TIME INCREMENT = 1.050 hr, DRAINAGE AREA = 4.78 SQ.MI.

HRS								
.00	CFS	.00	1.28	1.28	2.92	3.21	3.27	3.34	3.32
8.40	CFS	3.21	3.21	3.33	3.34	3.76	3.98	3.98	3.98
16.80	CFS	3.98	4.11	4.11	4.00	3.98	4.04	4.11	4.14
25.20	CFS	4.37	4.37	4.48	4.49	4.41	4.37	4.37	4.37
33.60	CFS	4.37	4.37	4.37	4.47	4.49	4.43	4.37	4.37
42.00	CFS	4.37	4.37	4.37	4.37	4.46	4.49	4.87	5.91
50.40	CFS	5.91	5.91	5.91	5.91	5.91	5.91	5.91	5.91
58.80	CFS	5.91	5.91	5.91	5.91	5.91	5.91	5.91	5.91
67.20	CFS	5.91	5.91	5.91	6.01	6.03	6.91	7.96	7.96
75.60	CFS	7.96	7.96	8.08	8.09	8.00	7.96	7.96	7.96
84.00	CFS	8.07	10.47	10.53	10.64	10.66	10.60	10.53	10.53
92.40	CFS	10.53	10.53	10.65	10.66	10.57	10.53	12.17	16.18
100.80	CFS	16.22	18.72	18.75	18.75	18.75	20.91	23.24	23.24
109.20	CFS	23.24	23.31	28.33	28.63	34.05	36.85	41.93	55.47
117.60	CFS	62	448	448	537	552	373	187	174
126.00	CFS	73.19	72.66	42.18	39.80	32.11	28.25	26.69	21.83
134.40	CFS	21.61	16.69	16.69	16.69	16.69	14.82	12.84	13.01
142.80	CFS	14.12	14.10	10.56	10.27	10.27	10.27	10.59	11.56
151.20	CFS	11.48	10.28	10.27	10.27	10.27	9.67	8.99	8.82
159.60	CFS	7.70	7.70	7.70	7.70	8.62	8.99	8.63	7.70
168.00	CFS	7.63	6.44	6.42	5.35	5.14	5.72	6.42	6.27
176.40	CFS	5.14	5.14	6.36	6.42	6.42	6.42	6.04	5.14
184.80	CFS	5.20	6.39	6.42	6.42	6.42	5.83	5.14	5.14
193.20	CFS	5.14	5.14	3.89	3.85	4.72	5.14	4.76	3.85
201.60	CFS	3.89	5.11	5.14	4.05	3.85	4.46	5.14	4.97
210.00	CFS	3.85	3.86	5.08	5.14	4.29	3.85	3.85	3.85
218.40	CFS	3.85	2.57	2.57	3.66	3.85	3.23	2.57	2.73
226.80	CFS	3.85	3.83	2.65	2.57	2.57	2.57	2.90	3.85
235.20	CFS	3.81	2.57	2.57	3.65	3.85	3.22	2.57	2.25
243.60	CFS	.00							

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.67 WATERSHED INCHES; 5155 CFS-HRS; 426.0 ACRE-FEET.

*** WARNING - MAIN TIME INCREMENT (1.050) IS GREATER THAN 50% OF THE
TIME OF CONCENTRATION (.78) FOR SUBWATERSHED XSECTION 5.
THIS WILL REDUCE THE COMPUTED PEAK BY ABOUT -3.1%. ***

OPERATION RUNOFF XSECTION 7

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
121.49	403.1	(RUNOFF)
143.33	10.5	(RUNOFF)
150.66	8.4	(RUNOFF)
165.11	6.5	(RUNOFF)
174.73	4.7	(RUNOFF)
180.93	4.6	(RUNOFF)
188.48	4.7	(RUNOFF)
192.68	3.7	(RUNOFF)
208.35	3.8	(RUNOFF)
212.82	3.7	(RUNOFF)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 1
MAIN TIME INCREMENT = 1.050 hr, DRAINAGE AREA = 3.48 SQ.MI.

HRS								
.00 CFS	.00	.90	.93	1.92	2.32	2.35	2.41	2.40
8.40 CFS	2.32	2.32	2.40	2.41	2.65	2.87	2.87	2.87
16.80 CFS	2.88	2.96	2.97	2.90	2.87	2.90	2.97	2.98
25.20 CFS	3.15	3.15	3.23	3.25	3.20	3.15	3.15	3.15
33.60 CFS	3.15	3.15	3.15	3.22	3.25	3.22	3.15	3.15
42.00 CFS	3.15	3.15	3.15	3.15	3.20	3.25	3.39	4.27
50.40 CFS	4.27	4.27	4.27	4.27	4.27	4.27	4.27	4.27
58.80 CFS	4.27	4.27	4.27	4.27	4.27	4.27	4.27	4.27
67.20 CFS	4.27	4.27	4.27	4.33	4.36	4.79	5.75	5.75
75.60 CFS	5.75	5.75	5.83	5.84	5.79	5.75	5.75	5.75
84.00 CFS	5.79	7.52	7.60	7.67	7.70	7.67	7.60	7.60
92.40 CFS	7.60	7.60	7.69	7.70	7.65	7.60	8.19	11.68
100.80 CFS	11.70	13.48	13.54	13.54	13.54	14.58	16.78	16.78
109.20 CFS	16.78	16.78	20.14	20.68	23.74	26.61	28.86	40.03
117.60 CFS	43	311	324	377	399	317	135	130
126.00 CFS	53.45	52.79	32.22	28.75	24.51	20.40	19.64	15.76
134.40 CFS	15.69	12.24	12.05	12.05	12.05	11.18	9.27	9.32
142.80 CFS	10.19	10.20	7.75	7.42	7.42	7.42	7.55	8.35
151.20 CFS	8.33	7.45	7.42	7.42	7.42	7.12	6.49	6.44
159.60 CFS	5.57	5.56	5.56	5.56	6.04	6.49	6.34	5.57
168.00 CFS	5.56	4.67	4.64	3.97	3.71	4.00	4.64	4.57
176.40 CFS	3.72	3.71	4.50	4.64	4.64	4.64	4.48	3.71
184.80 CFS	3.73	4.59	4.64	4.64	4.64	4.35	3.71	3.71
193.20 CFS	3.71	3.71	2.89	2.78	3.25	3.71	3.58	2.78
201.60 CFS	2.80	3.68	3.71	3.06	2.78	3.08	3.71	3.66
210.00 CFS	2.79	2.78	3.60	3.71	3.23	2.78	2.78	2.78
218.40 CFS	2.78	1.88	1.85	2.52	2.78	2.49	1.85	1.92
226.80 CFS	2.77	2.78	1.99	1.85	1.85	1.85	2.01	2.78
235.20 CFS	2.77	1.90	1.85	2.51	2.78	2.50	1.85	1.76

243.60 CFS .00

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.68 WATERSHED INCHES; 3762 CFS-HRS; 310.9 ACRE-FEET.

*** WARNING - MAIN TIME INCREMENT (1.050) IS GREATER THAN 50% OF THE
TIME OF CONCENTRATION (1.01) FOR SUBWATERSHED XSECTION 7.
THIS WILL REDUCE THE COMPUTED PEAK BY ABOUT -1.1%. ***

OPERATION ADDHYD XSECTION 75

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
121.40	971.9	(NULL)
138.08	29.1	(NULL)
143.32	24.6	(NULL)
150.63	20.1	(NULL)
164.97	15.5	(NULL)
174.68	11.2	(NULL)
180.84	11.1	(NULL)
188.48	11.2	(NULL)
208.28	8.9	(NULL)
212.74	9.0	(NULL)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 1
MAIN TIME INCREMENT = 1.050 hr, DRAINAGE AREA = 8.26 SQ.MI.

HRS								
.00 CFS	.00	2.18	2.21	4.84	5.53	5.62	5.75	5.73
8.40 CFS	5.53	5.53	5.73	5.75	6.41	6.85	6.85	6.85
16.80 CFS	6.86	7.07	7.08	6.90	6.85	6.95	7.08	7.12
25.20 CFS	7.52	7.52	7.72	7.74	7.61	7.52	7.52	7.52
33.60 CFS	7.52	7.52	7.52	7.69	7.74	7.65	7.52	7.52
42.00 CFS	7.52	7.52	7.52	7.52	7.66	7.74	8.26	10.17
50.40 CFS	10.17	10.17	10.17	10.17	10.17	10.17	10.17	10.17
58.80 CFS	10.17	10.17	10.17	10.17	10.17	10.17	10.17	10.17
67.20 CFS	10.17	10.17	10.17	10.35	10.39	11.70	13.71	13.71
75.60 CFS	13.71	13.71	13.91	13.93	13.80	13.71	13.71	13.71
84.00 CFS	13.86	17.99	18.13	18.31	18.35	18.26	18.13	18.13
92.40 CFS	18.13	18.13	18.34	18.35	18.22	18.13	20.36	27.86
100.80 CFS	27.93	32.20	32.28	32.28	32.28	35.49	40.02	40.02
109.20 CFS	40.02	40.10	48.47	49.31	57.79	63.46	70.79	95.50
117.60 CFS	105	759	772	914	951	690	323	304
126.00 CFS	127	125	74	69	57	49	46	38
134.40 CFS	37.30	28.93	28.75	28.75	28.75	26.00	22.11	22.33
142.80 CFS	24.32	24.30	18.31	17.69	17.69	17.69	18.15	19.90
151.20 CFS	19.81	17.72	17.69	17.69	17.69	16.79	15.48	15.26
159.60 CFS	13.28	13.27	13.27	13.27	14.67	15.48	14.97	13.27
168.00 CFS	13.19	11.12	11.06	9.32	8.84	9.72	11.06	10.84
176.40 CFS	8.85	8.85	10.86	11.06	11.06	11.06	10.52	8.85
184.80 CFS	8.93	10.98	11.06	11.06	11.06	10.18	8.84	8.84
193.20 CFS	8.84	8.84	6.78	6.63	7.97	8.84	8.33	6.63
201.60 CFS	6.69	8.79	8.84	7.11	6.63	7.54	8.85	8.63

210.00 CFS	6.64	6.64	8.68	8.84	7.52	6.63	6.63	6.63
218.40 CFS	6.63	4.45	4.42	6.18	6.63	5.71	4.42	4.64
226.80 CFS	6.62	6.61	4.64	4.42	4.42	4.42	4.91	6.63
235.20 CFS	6.58	4.47	4.42	6.16	6.63	5.72	4.42	4.01
243.60 CFS	.00							

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.67 WATERSHED INCHES; 8917 CFS-HRS; 736.9 ACRE-FEET.

OPERATION ADDHYD XSECTION 76

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
121.69	2179.1	(NULL)
142.76	60.0	(NULL)
150.79	48.2	(NULL)
165.37	37.0	(NULL)
174.85	26.3	(NULL)
181.52	27.4	(NULL)
188.72	27.5	(NULL)
198.77	20.6	(NULL)
203.17	20.8	(NULL)
208.44	20.8	(NULL)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 1
MAIN TIME INCREMENT = 1.050 hr, DRAINAGE AREA = 20.57 SQ.MI.

HRS								
.00 CFS	.00	3.38	3.73	9.09	10.89	12.68	13.78	14.08
8.40 CFS	13.94	13.95	14.17	14.19	15.38	16.17	16.59	16.95
16.80 CFS	17.08	17.44	17.49	17.33	17.28	17.34	17.50	17.62
25.20 CFS	18.33	18.43	18.97	19.11	19.03	18.93	18.87	18.80
33.60 CFS	18.78	18.77	18.77	19.05	19.14	19.09	18.93	18.89
42.00 CFS	18.81	18.78	18.77	18.77	18.99	19.14	20.12	23.24
50.40 CFS	23.72	24.83	25.24	25.35	25.38	25.39	25.39	25.39
58.80 CFS	25.39	25.39	25.39	25.39	25.39	25.39	25.39	25.39
67.20 CFS	25.39	25.39	25.39	25.67	25.76	28.03	31.34	32.26
75.60 CFS	33.58	34.05	34.50	34.59	34.49	34.39	34.33	34.26
84.00 CFS	34.49	40.94	41.73	44.32	45.29	45.50	45.41	45.39
92.40 CFS	45.31	45.29	45.60	45.65	45.54	45.44	49.02	61.04
100.80 CFS	63.04	74.17	76.49	79.20	80.21	85.77	93.38	95.41
109.20 CFS	98	100	113	116	134	146	164	208
117.60 CFS	240	1281	1387	1968	2176	1861	1310	1133
126.00 CFS	612	496	293	234	174	144	129	107
134.40 CFS	102	83	80	74	73	67	61	59
142.80 CFS	59.99	59.37	50.82	49.42	46.17	44.75	45.13	47.77
151.20 CFS	48.04	45.80	45.79	44.75	44.34	42.72	40.57	39.58
159.60 CFS	35.61	34.94	33.73	33.30	35.42	36.80	36.79	34.76
168.00 CFS	34.42	30.24	29.51	25.50	24.08	24.42	25.98	26.03
176.40 CFS	23.70	23.63	25.80	25.97	26.98	27.42	26.68	24.01
184.80 CFS	23.71	25.99	26.00	27.02	27.44	26.09	23.93	23.37
193.20 CFS	22.51	22.19	18.86	18.35	19.46	20.50	20.24	18.17
201.60 CFS	18.08	20.48	20.46	18.73	18.19	18.82	20.45	20.49

210.00 CFS	18.16	18.12	20.31	20.45	19.28	18.22	17.55	16.88
218.40 CFS	16.62	13.16	12.80	14.45	14.92	14.25	12.70	12.65
226.80 CFS	14.93	14.96	12.89	12.68	11.69	11.23	11.94	14.61
235.20 CFS	14.93	12.71	12.66	14.39	14.90	14.29	12.71	11.55
243.60 CFS	4.48	3.46	1.16	.32				

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.67 WATERSHED INCHES; 22124 CFS-HRS; 1828.3 ACRE-FEET.

--- XSECTION 76, ALTERNATE 1, STORM 1, HYDROGRAPH ADDED TO READHD FILE ---

*** MESSAGE - STRUCTURE 1, USER ENTERED STARTING ELEVATION (1204.6 FEET) CAN ADD 1.174 INCHES OF RUNOFF TO THE OUTFLOW HYDROGRAPH VOLUME.***

*** MESSAGE - RESERVOIR ROUTING, STRUCTURE 1, TRUNCATED AT 400 POINTS WITH 1124.43 AC-FT (.08 WATERSHED INCHES) FLOOD STORAGE REMAINING IN RESERVOIR AT ELEV. 1203.69. ***

OPERATION RESVOR STRUCTURE 1

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
.00	50.5	1204.56
138.84	71.0	1208.85

*** WARNING - STRUCTURE 1, HYDROGRAPH VOLUME TRUNCATED AT 47 CFS
RESVOR (66. % OF MAX. HYDROGRAPH COORDINATE)
MAIN TIME INCREMENT TOO SMALL. ***

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 1
MAIN TIME INCREMENT = 1.050 hr, DRAINAGE AREA = 20.57 SQ.MI.

HRS								
.00 CFS	50.46	50.37	50.28	50.20	50.12	50.05	49.98	49.91
8.40 CFS	49.84	49.77	49.70	49.63	49.57	49.50	49.44	49.38
16.80 CFS	49.32	49.25	49.19	49.13	49.07	49.01	48.95	48.89
25.20 CFS	48.83	48.77	48.72	48.66	48.60	48.55	48.49	48.43
33.60 CFS	48.38	48.32	48.26	48.21	48.15	48.10	48.04	47.98
42.00 CFS	47.91	47.84	47.77	47.70	47.63	47.56	47.49	47.42
50.40 CFS	47.37	47.31	47.25	47.20	47.15	47.09	47.04	46.99
58.80 CFS	46.94	46.88	46.83	46.78	46.73	46.67	46.62	46.57
67.20 CFS	46.52	46.47	46.42	46.36	46.31	46.27	46.23	46.19
75.60 CFS	46.16	46.13	46.10	46.07	46.04	46.02	45.99	45.96
84.00 CFS	45.93	45.91	45.90	45.89	45.89	45.89	45.89	45.89
92.40 CFS	45.88	45.88	45.88	45.88	45.88	45.88	45.88	45.90
100.80 CFS	45.94	46.00	46.07	46.15	46.23	46.32	46.43	46.54
109.20 CFS	46.67	46.79	46.94	47.10	47.29	47.52	47.78	48.10
117.60 CFS	48.43	49.79	52.25	55.36	59.04	62.51	65.21	67.22
126.00 CFS	68.58	69.40	69.95	70.28	70.51	70.66	70.77	70.85
134.40 CFS	70.90	70.94	70.96	70.97	70.97	70.97	70.96	70.94
142.80 CFS	70.92	70.90	70.88	70.84	70.80	70.76	70.72	70.67
151.20 CFS	70.64	70.60	70.55	70.51	70.47	70.42	70.37	70.32
159.60 CFS	70.27	70.21	70.15	70.08	70.02	69.97	69.91	69.85

168.00 CFS	69.79	69.73	69.66	69.59	69.52	69.44	69.36	69.29
176.40 CFS	69.22	69.14	69.06	68.99	68.92	68.85	68.78	68.70
184.80 CFS	68.63	68.55	68.48	68.41	68.34	68.27	68.20	68.12
193.20 CFS	68.05	67.97	67.89	67.80	67.72	67.64	67.56	67.48
201.60 CFS	67.40	67.31	67.24	67.15	67.07	66.99	66.91	66.83
210.00 CFS	66.75	66.67	66.59	66.51	66.43	66.35	66.26	66.18
218.40 CFS	66.09	66.00	65.90	65.81	65.72	65.63	65.54	65.44
226.80 CFS	65.35	65.26	65.17	65.08	64.99	64.89	64.80	64.70
235.20 CFS	64.62	64.53	64.43	64.34	64.26	64.17	64.08	63.99
243.60 CFS	63.89	63.78	63.67	63.56	63.45	63.34	63.22	63.11
252.00 CFS	63.00	62.89	62.78	62.67	62.55	62.44	62.33	62.22
260.40 CFS	62.11	62.00	61.89	61.78	61.67	61.56	61.46	61.35
268.80 CFS	61.24	61.13	61.02	60.91	60.80	60.70	60.59	60.48
277.20 CFS	60.37	60.27	60.16	60.05	59.95	59.84	59.74	59.63
285.60 CFS	59.52	59.42	59.31	59.21	59.10	59.00	58.89	58.79
294.00 CFS	58.69	58.58	58.48	58.37	58.27	58.17	58.06	57.96
302.40 CFS	57.86	57.76	57.65	57.55	57.45	57.35	57.25	57.14
310.80 CFS	57.04	56.94	56.84	56.74	56.63	56.52	56.41	56.30
319.20 CFS	56.20	56.09	55.98	55.87	55.77	55.66	55.55	55.45
327.60 CFS	55.34	55.24	55.13	55.03	54.92	54.81	54.71	54.61
336.00 CFS	54.50	54.40	54.29	54.19	54.09	53.98	53.88	53.78
344.40 CFS	53.67	53.57	53.47	53.37	53.26	53.16	53.06	52.96
352.80 CFS	52.86	52.76	52.66	52.55	52.45	52.35	52.25	52.15
361.20 CFS	52.05	51.95	51.86	51.76	51.66	51.56	51.46	51.36
369.60 CFS	51.26	51.17	51.07	50.97	50.87	50.77	50.68	50.58
378.00 CFS	50.48	50.39	50.29	50.20	50.10	50.00	49.91	49.81
386.40 CFS	49.72	49.62	49.53	49.43	49.34	49.24	49.15	49.06
394.80 CFS	48.96	48.87	48.77	48.68	48.59	48.50	48.40	48.31
403.20 CFS	48.22	48.13	48.03	47.93	47.81	47.69	47.57	47.46
411.60 CFS	47.34	47.23	47.11	47.00	46.88	46.77	46.65	46.54

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.79 WATERSHED INCHES; 23762 CFS-HRS; 1963.7 ACRE-FEET.

--- STRUCTURE 1, ALTERNATE 1, STORM 1, HYDROGRAPH ADDED TO READHD FILE ---

EXECUTIVE CONTROL ENDCMP COMPUTATIONS COMPLETED FOR PASS 1

EXECUTIVE CONTROL COMPUT FROM XSECTION 1 TO STRUCTURE 1
STARTING TIME = .00 RAIN DEPTH = 1.00 RAIN DURATION = 1.00
ANT. RUNOFF COND. = 2 MAIN TIME INCREMENT = 1.050 HOURS
ALTERNATE NO. = 2 STORM NO. = 1 RAIN TABLE NO. = 1

OPERATION RUNOFF XSECTION 1

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
121.40	290.4	(RUNOFF)
138.08	8.7	(RUNOFF)
143.29	7.3	(RUNOFF)
150.61	6.0	(RUNOFF)
164.99	4.6	(RUNOFF)
174.63	3.3	(RUNOFF)
179.55	3.3 *	(RUNOFF)
187.64	3.3	(RUNOFF)
192.22	2.6	(RUNOFF)
208.25	2.7	(RUNOFF)

* FIRST POINT OF FLAT PEAK

HYDROGRAPH POINTS FOR ALTERNATE = 2, STORM = 1
MAIN TIME INCREMENT = 1.050 hr, DRAINAGE AREA = 2.46 SQ.MI.

HRS								
.00 CFS	.00	.66	.66	1.45	1.65	1.68	1.72	1.71
8.40 CFS	1.65	1.65	1.71	1.72	1.92	2.05	2.05	2.05
16.80 CFS	2.05	2.11	2.11	2.06	2.05	2.08	2.11	2.13
25.20 CFS	2.25	2.25	2.31	2.31	2.27	2.25	2.25	2.25
33.60 CFS	2.25	2.25	2.25	2.30	2.31	2.29	2.25	2.25
42.00 CFS	2.25	2.25	2.25	2.25	2.29	2.31	2.48	3.04
50.40 CFS	3.04	3.04	3.04	3.04	3.04	3.04	3.04	3.04
58.80 CFS	3.04	3.04	3.04	3.04	3.04	3.04	3.04	3.04
67.20 CFS	3.04	3.04	3.04	3.09	3.11	3.51	4.10	4.10
75.60 CFS	4.10	4.10	4.16	4.16	4.12	4.10	4.10	4.10
84.00 CFS	4.11	5.40	5.42	5.47	5.48	5.46	5.42	5.42
92.40 CFS	5.42	5.42	5.48	5.48	5.44	5.42	6.18	8.33
100.80 CFS	8.41	9.58	9.65	9.65	9.65	10.62	11.96	11.96
109.20 CFS	11.96	12.01	14.43	14.74	17.28	18.96	21.33	28.55
117.60 CFS	33.56	229.35	230.66	273.71	284.13	207.45	96.47	89.78
126.00 CFS	38.02	37.66	22.09	20.48	16.69	14.54	13.75	11.23
134.40 CFS	11.10	8.71	8.59	8.59	8.59	7.72	6.61	6.68
142.80 CFS	7.27	7.25	5.50	5.29	5.29	5.29	5.46	5.95
151.20 CFS	5.91	5.31	5.29	5.29	5.29	5.02	4.63	4.55
159.60 CFS	3.96	3.96	3.96	3.96	4.38	4.63	4.48	3.96
168.00 CFS	3.95	3.32	3.30	2.79	2.64	2.93	3.30	3.22
176.40 CFS	2.65	2.64	3.25	3.30	3.30	3.30	3.13	2.64
184.80 CFS	2.68	3.27	3.30	3.30	3.30	3.03	2.64	2.64
193.20 CFS	2.64	2.63	2.05	1.98	2.38	2.64	2.49	1.98
201.60 CFS	1.99	2.64	2.64	2.11	1.98	2.26	2.64	2.56
210.00 CFS	1.99	1.98	2.58	2.64	2.22	1.98	1.98	1.98
218.40 CFS	1.95	1.35	1.32	1.83	1.98	1.70	1.32	1.39
226.80 CFS	1.98	1.97	1.39	1.32	1.32	1.32	1.49	1.98
235.20 CFS	1.95	1.34	1.32	1.85	1.98	1.72	1.32	1.17
243.60 CFS	.00							

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.68 WATERSHED INCHES; 2671 CFS-HRS; 220.7 ACRE-FEET.

*** WARNING - MAIN TIME INCREMENT (1.050) IS GREATER THAN 50% OF THE
TIME OF CONCENTRATION (.85) FOR SUBWATERSHED XSECTION 1.
THIS WILL REDUCE THE COMPUTED PEAK BY ABOUT -2.1%. ***

OPERATION REACH XSECTION 5

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
122.55	283.3	2.23
144.42	7.4	.39
151.83	5.9	.36
166.22	4.6	.32
175.87	3.3	.23
182.21	3.3	.23
189.54	3.3	.23
214.00	2.6	.18
240.45	1.9	.14

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.62 WATERSHED INCHES; 2576 CFS-HRS; 212.9 ACRE-FEET.

OPERATION REACH XSECTION 10

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
123.70	277.3	3.72
145.52	7.3	.92
153.01	5.9	.88
167.44	4.5	.78
177.05	3.2	.56
183.33	3.3	.57
190.64	3.3	.57
215.18	2.6	.44
241.65	1.9	.33

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.66 WATERSHED INCHES; 2642 CFS-HRS; 218.3 ACRE-FEET.

OPERATION RUNOFF XSECTION 2

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
78.23	4.0	(RUNOFF)
121.33	285.1	(RUNOFF)
137.49	8.3	(RUNOFF)
143.33	7.3	(RUNOFF)
154.35	5.1	(RUNOFF)
164.80	4.5	(RUNOFF)
174.61	3.2	(RUNOFF)
181.13	3.2	(RUNOFF)
188.48	3.2	(RUNOFF)
192.69	2.6	(RUNOFF)

HYDROGRAPH POINTS FOR ALTERNATE = 2, STORM = 1
MAIN TIME INCREMENT = 1.050 hr, DRAINAGE AREA = 2.38 SQ.MI.

HRS								
.00 CFS	.00	.64	.64	1.49	1.60	1.63	1.66	1.65
8.40 CFS	1.60	1.60	1.66	1.66	1.90	1.98	1.98	1.98
16.80 CFS	1.99	2.05	2.05	1.99	1.98	2.01	2.05	2.06
25.20 CFS	2.17	2.17	2.23	2.24	2.19	2.17	2.17	2.17
33.60 CFS	2.17	2.17	2.17	2.23	2.24	2.20	2.17	2.17
42.00 CFS	2.17	2.17	2.17	2.17	2.22	2.24	2.46	2.94
50.40 CFS	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94
58.80 CFS	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94
67.20 CFS	2.94	2.94	2.94	3.00	3.00	3.49	3.96	3.96
75.60 CFS	3.96	3.96	4.03	4.03	3.98	3.96	3.96	3.96
84.00 CFS	4.03	5.24	5.24	5.30	5.31	5.27	5.24	5.24
92.40 CFS	5.24	5.24	5.30	5.31	5.26	5.24	5.96	8.06
100.80 CFS	8.11	9.32	9.33	9.33	9.33	10.46	11.57	11.57
109.20 CFS	11.57	11.57	14.21	14.26	17.19	18.35	21.32	27.62
117.60 CFS	36.73	223.11	223.11	269.22	274.90	177.77	93.34	85.77
126.00 CFS	36.44	36.28	20.57	19.82	15.53	14.06	13.20	10.87
134.40 CFS	10.74	8.33	8.31	8.31	8.31	7.35	6.39	6.48
142.80 CFS	7.03	7.03	5.17	5.11	5.11	5.11	5.32	5.75
151.20 CFS	5.73	5.11	5.11	5.11	5.11	4.77	4.48	4.39
159.60 CFS	3.84	3.84	3.84	3.84	4.32	4.48	4.29	3.84
168.00 CFS	3.80	3.20	3.20	2.63	2.56	2.88	3.20	3.12
176.40 CFS	2.56	2.56	3.17	3.20	3.20	3.20	2.99	2.56
184.80 CFS	2.57	3.20	3.20	3.20	3.20	2.85	2.56	2.56
193.20 CFS	2.56	2.55	1.94	1.92	2.41	2.56	2.37	1.92
201.60 CFS	1.96	2.56	2.56	2.00	1.92	2.24	2.56	2.47
210.00 CFS	1.92	1.92	2.53	2.56	2.10	1.92	1.92	1.92
218.40 CFS	1.91	1.28	1.28	1.85	1.92	1.58	1.28	1.37
226.80 CFS	1.92	1.91	1.29	1.28	1.28	1.28	1.48	1.92
235.20 CFS	1.88	1.28	1.28	1.84	1.92	1.59	1.28	1.10
243.60 CFS	.00							

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.67 WATERSHED INCHES; 2561 CFS-HRS; 211.6 ACRE-FEET.

*** WARNING - MAIN TIME INCREMENT (1.050) IS GREATER THAN 50% OF THE
TIME OF CONCENTRATION (.73) FOR SUBWATERSHED XSECTION 2.
THIS WILL REDUCE THE COMPUTED PEAK BY ABOUT -3.7%. ***

OPERATION ADDHYD XSECTION 12

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
121.80	488.3	(NULL)
145.48	12.4	(NULL)
150.94	11.1	(NULL)
153.00	11.0	(NULL)
165.72	8.5	(NULL)
178.68	6.0	(NULL)
181.69	6.4	(NULL)
186.07	6.0	(NULL)
188.84	6.4	(NULL)
212.28	4.7	(NULL)

HYDROGRAPH POINTS FOR ALTERNATE = 2, STORM = 1
MAIN TIME INCREMENT = 1.050 hr, DRAINAGE AREA = 4.84 SQ.MI.

HRS								
.00 CFS	.00	.64	.64	1.93	2.20	2.81	3.18	3.29
8.40 CFS	3.29	3.30	3.33	3.32	3.59	3.69	3.84	3.97
16.80 CFS	4.02	4.09	4.09	4.08	4.09	4.09	4.10	4.13
25.20 CFS	4.27	4.29	4.44	4.47	4.47	4.48	4.46	4.43
33.60 CFS	4.42	4.42	4.42	4.48	4.48	4.49	4.48	4.47
42.00 CFS	4.43	4.42	4.42	4.42	4.47	4.48	4.74	5.24
50.40 CFS	5.36	5.78	5.93	5.97	5.98	5.98	5.98	5.98
58.80 CFS	5.98	5.98	5.98	5.98	5.98	5.98	5.98	5.98
67.20 CFS	5.98	5.98	5.98	6.04	6.04	6.56	7.06	7.33
75.60 CFS	7.83	8.00	8.11	8.12	8.12	8.12	8.10	8.07
84.00 CFS	8.13	9.34	9.35	10.28	10.61	10.70	10.71	10.70
92.40 CFS	10.67	10.66	10.72	10.72	10.72	10.72	11.42	13.48
100.80 CFS	14.04	16.88	17.51	18.48	18.85	20.07	21.21	21.87
109.20 CFS	23.01	23.40	26.14	26.24	30.83	32.77	37.69	45.80
117.60 CFS	57	249	254	434	488	433	369	316
126.00 CFS	175	139	79	63	44	37	32	27
134.40 CFS	25.04	20.52	19.70	17.87	17.16	16.00	15.00	14.49
142.80 CFS	14.08	13.80	12.26	12.32	11.17	10.62	10.66	11.05
151.20 CFS	11.13	10.89	10.99	10.61	10.46	10.07	9.76	9.50
159.60 CFS	8.61	8.45	8.01	7.85	8.30	8.44	8.54	8.34
168.00 CFS	8.30	7.34	7.19	6.17	5.92	5.85	5.93	5.98
176.40 CFS	5.72	5.77	6.01	5.89	6.26	6.43	6.28	5.86
184.80 CFS	5.76	6.01	5.91	6.28	6.44	6.14	5.86	5.68
193.20 CFS	5.35	5.23	4.59	4.55	4.66	4.61	4.63	4.44
201.60 CFS	4.46	4.71	4.59	4.43	4.51	4.51	4.62	4.66
210.00 CFS	4.42	4.47	4.70	4.59	4.50	4.49	4.26	4.01
218.40 CFS	3.92	3.27	3.24	3.40	3.30	3.25	3.17	3.13
226.80 CFS	3.38	3.32	3.08	3.20	2.85	2.67	2.81	3.24
235.20 CFS	3.32	3.09	3.20	3.37	3.29	3.28	3.18	2.88

243.60 CFS 1.47 1.26 .40

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.67 WATERSHED INCHES; 5202 CFS-HRS; 429.9 ACRE-FEET.

OPERATION DIVERT XSECTION 12
OUTPUT #1 HYDROGRAPH

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
121.80	488.3	(DIVERT)
145.48	12.4	(DIVERT)
150.94	11.1	(DIVERT)
153.00	11.0	(DIVERT)
165.72	8.5	(DIVERT)
178.68	6.0	(DIVERT)
181.69	6.4	(DIVERT)
186.07	6.0	(DIVERT)
188.84	6.4	(DIVERT)
212.28	4.7	(DIVERT)

HYDROGRAPH POINTS FOR ALTERNATE = 2, STORM = 1
MAIN TIME INCREMENT = 1.050 hr, DRAINAGE AREA = 4.84 SQ.MI.

HRS								
.00 CFS	.00	.64	.64	1.93	2.20	2.81	3.18	3.29
8.40 CFS	3.29	3.30	3.33	3.32	3.59	3.69	3.84	3.97
16.80 CFS	4.02	4.09	4.09	4.08	4.09	4.09	4.10	4.13
25.20 CFS	4.27	4.29	4.44	4.47	4.47	4.48	4.46	4.43
33.60 CFS	4.42	4.42	4.42	4.48	4.48	4.49	4.48	4.47
42.00 CFS	4.43	4.42	4.42	4.42	4.47	4.48	4.74	5.24
50.40 CFS	5.36	5.78	5.93	5.97	5.98	5.98	5.98	5.98
58.80 CFS	5.98	5.98	5.98	5.98	5.98	5.98	5.98	5.98
67.20 CFS	5.98	5.98	5.98	6.04	6.04	6.56	7.06	7.33
75.60 CFS	7.83	8.00	8.11	8.12	8.12	8.12	8.10	8.07
84.00 CFS	8.13	9.34	9.35	10.28	10.61	10.70	10.71	10.70
92.40 CFS	10.67	10.66	10.72	10.72	10.72	10.72	11.42	13.48
100.80 CFS	14.04	16.88	17.51	18.48	18.85	20.07	21.21	21.87
109.20 CFS	23.01	23.40	26.14	26.24	30.83	32.77	37.69	45.80
117.60 CFS	57	249	254	434	488	433	369	316
126.00 CFS	175	139	79	63	44	37	32	27
134.40 CFS	25.04	20.52	19.70	17.87	17.16	16.00	15.00	14.49
142.80 CFS	14.08	13.80	12.26	12.32	11.17	10.62	10.66	11.05
151.20 CFS	11.13	10.89	10.99	10.61	10.46	10.07	9.76	9.50
159.60 CFS	8.61	8.45	8.01	7.85	8.30	8.44	8.54	8.34
168.00 CFS	8.30	7.34	7.19	6.17	5.92	5.85	5.93	5.98
176.40 CFS	5.72	5.77	6.01	5.89	6.26	6.43	6.28	5.86
184.80 CFS	5.76	6.01	5.91	6.28	6.44	6.14	5.86	5.68
193.20 CFS	5.35	5.23	4.59	4.55	4.66	4.61	4.63	4.44
201.60 CFS	4.46	4.71	4.59	4.43	4.51	4.51	4.62	4.66
210.00 CFS	4.42	4.47	4.70	4.59	4.50	4.49	4.26	4.01
218.40 CFS	3.92	3.27	3.24	3.40	3.30	3.25	3.17	3.13
226.80 CFS	3.38	3.32	3.08	3.20	2.85	2.67	2.81	3.24

235.20 CFS	3.32	3.09	3.20	3.37	3.29	3.28	3.18	2.88
243.60 CFS	1.47	1.26	.40					

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.67 WATERSHED INCHES; 5202 CFS-HRS; 429.9 ACRE-FEET.

OUTPUT #2 DIVERTED HYDROGRAPH (XSECTION 200)

*** MESSAGE - HYDROGRAPH CONTAINS NO FLOW ***

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
237 CFS-HRS; 429.9 ACRE-FEET.

*** WARNING - ROUTING COEFFICIENT (C) EQUALS 1.0,
CONSIDER SMALLER MAIN TIME INCREMENT FOR XSECTION 20. ***

OPERATION REACH XSECTION 20

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
121.80	488.3	2.45
145.48	12.4	.13
150.94	11.1	.11
153.00	11.0	.11
165.72	8.5	.09
178.68	6.0	.06
181.69	6.4	.06
186.07	6.0	.06
188.84	6.4	.07
212.28	4.7	.05

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.67 WATERSHED INCHES; 5202 CFS-HRS; 429.9 ACRE-FEET.

*** WARNING - ROUTING COEFFICIENT (C) EQUALS 1.0,
CONSIDER SMALLER MAIN TIME INCREMENT FOR XSECTION 25. ***

OPERATION REACH XSECTION 25

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
121.80	488.3	1.54
145.48	12.4	.08
150.94	11.1	.07
153.00	11.0	.07
165.72	8.5	.05
178.68	6.0	.04
181.69	6.4	.04
186.07	6.0	.04
188.84	6.4	.04
212.28	4.7	.03

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.67 WATERSHED INCHES; 5202 CFS-HRS; 429.9 ACRE-FEET.

OPERATION RUNOFF XSECTION 3

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
121.39	461.9	(RUNOFF)
126.52	63.0	(RUNOFF)
138.08	13.8	(RUNOFF)
143.32	11.7	(RUNOFF)
150.67	9.6	(RUNOFF)
154.88	8.5	(RUNOFF)
165.01	7.4	(RUNOFF)
174.70	5.3	(RUNOFF)
181.12	5.2	(RUNOFF)
186.90	5.2 *	(RUNOFF)

* FIRST POINT OF FLAT PEAK

HYDROGRAPH POINTS FOR ALTERNATE = 2, STORM = 1
MAIN TIME INCREMENT = 1.050 hr, DRAINAGE AREA = 3.94 SQ.MI.

HRS								
.00 CFS	.00	1.05	1.05	2.37	2.62	2.67	2.73	2.72
8.40 CFS	2.62	2.62	2.72	2.73	3.06	3.25	3.25	3.25
16.80 CFS	3.26	3.36	3.36	3.27	3.25	3.30	3.36	3.38
25.20 CFS	3.57	3.57	3.67	3.67	3.61	3.57	3.57	3.57
33.60 CFS	3.57	3.57	3.57	3.66	3.67	3.63	3.57	3.57
42.00 CFS	3.57	3.57	3.57	3.57	3.64	3.67	3.91	4.83
50.40 CFS	4.83	4.83	4.83	4.83	4.83	4.83	4.83	4.83
58.80 CFS	4.83	4.83	4.83	4.83	4.83	4.83	4.83	4.83
67.20 CFS	4.83	4.83	4.83	4.92	4.93	5.55	6.51	6.51
75.60 CFS	6.51	6.51	6.61	6.61	6.55	6.51	6.51	6.51
84.00 CFS	6.54	8.59	8.61	8.70	8.71	8.67	8.61	8.61
92.40 CFS	8.61	8.61	8.71	8.71	8.65	8.61	9.50	13.23
100.80 CFS	13.26	15.31	15.33	15.33	15.33	16.76	19.00	19.00
109.20 CFS	19.00	19.00	23.26	23.41	27.69	30.13	33.19	45.35
117.60 CFS	49	364	366	437	451	331	153	147
126.00 CFS	59.84	59.84	34.19	32.54	26.67	23.10	22.09	17.85

134.40 CFS	17.77	13.69	13.65	13.65	13.65	12.40	10.50	10.57
142.80 CFS	11.55	11.54	8.50	8.40	8.40	8.40	8.60	9.45
151.20 CFS	9.44	8.40	8.40	8.40	8.40	7.98	7.35	7.29
159.60 CFS	6.30	6.30	6.30	6.30	6.95	7.35	7.14	6.30
168.00 CFS	6.28	5.26	5.25	4.39	4.20	4.62	5.25	5.17
176.40 CFS	4.20	4.20	5.22	5.25	5.25	5.25	5.05	4.20
184.80 CFS	4.20	5.25	5.25	5.25	5.25	4.83	4.20	4.20
193.20 CFS	4.20	4.20	3.21	3.15	3.81	4.20	3.99	3.15
201.60 CFS	3.17	4.19	4.20	3.33	3.15	3.57	4.20	4.12
210.00 CFS	3.15	3.15	4.16	4.20	3.54	3.15	3.15	3.15
218.40 CFS	3.14	2.10	2.10	2.98	3.15	2.74	2.10	2.16
226.80 CFS	3.15	3.15	2.16	2.10	2.10	2.10	2.31	3.15
235.20 CFS	3.13	2.11	2.10	2.98	3.15	2.73	2.10	1.94
243.60 CFS	.00							

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.67 WATERSHED INCHES; 4251 CFS-HRS; 351.3 ACRE-FEET.

*** WARNING - MAIN TIME INCREMENT (1.050) IS GREATER THAN 50% OF THE
TIME OF CONCENTRATION (.88) FOR SUBWATERSHED XSECTION 3.
THIS WILL REDUCE THE COMPUTED PEAK BY ABOUT -2.3%. ***

OPERATION REACH XSECTION 30

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
122.60	444.1	2.56
144.45	11.7	.88
151.93	9.4	.85
166.33	7.2	.81
175.98	5.2	.77
182.27	5.3	.77
189.57	5.3	.77
204.49	4.2	.64
209.58	4.1	.64
214.02	4.1	.64

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.61 WATERSHED INCHES; 4102 CFS-HRS; 339.0 ACRE-FEET.

OPERATION REACH XSECTION 5

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
123.73	437.4	2.71
145.53	11.6	.45
153.06	9.4	.42
167.50	7.2	.38
177.12	5.2	.35
183.39	5.2	.35
190.65	5.3	.35
205.63	4.1	.29
210.71	4.1	.29
215.18	4.1	.29

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.65 WATERSHED INCHES; 4198 CFS-HRS; 347.0 ACRE-FEET.

*** WARNING - ROUTING COEFFICIENT (C) EQUALS 1.0,
CONSIDER SMALLER MAIN TIME INCREMENT FOR XSECTION 25. ***

OPERATION REACH XSECTION 25

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
123.73	437.4	1.44
145.53	11.6	.07
153.06	9.4	.06
167.50	7.2	.05
177.12	5.2	.03
183.39	5.2	.03
190.65	5.3	.03
205.63	4.1	.03
210.71	4.1	.03
215.18	4.1	.03

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.65 WATERSHED INCHES; 4198 CFS-HRS; 347.0 ACRE-FEET.

OPERATION RUNOFF XSECTION 4

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
121.36	245.1	(RUNOFF)
138.08	7.3	(RUNOFF)
143.27	6.1	(RUNOFF)
154.88	4.5	(RUNOFF)
164.96	3.9	(RUNOFF)
193.72	2.2	(RUNOFF)
198.49	2.2	(RUNOFF)
203.17	2.3	(RUNOFF)
208.22	2.2	(RUNOFF)
212.72	2.2	(RUNOFF)

HYDROGRAPH POINTS FOR ALTERNATE = 2, STORM = 1
MAIN TIME INCREMENT = 1.050 hr, DRAINAGE AREA = 2.06 SQ.MI.

HRS								
.00 CFS	.00	.55	.55	1.25	1.38	1.41	1.44	1.43
8.40 CFS	1.38	1.38	1.43	1.44	1.63	1.72	1.72	1.72
16.80 CFS	1.72	1.77	1.77	1.72	1.72	1.74	1.77	1.78
25.20 CFS	1.88	1.88	1.93	1.94	1.90	1.88	1.88	1.88
33.60 CFS	1.88	1.88	1.88	1.93	1.94	1.91	1.88	1.88
42.00 CFS	1.88	1.88	1.88	1.88	1.92	1.94	2.09	2.55
50.40 CFS	2.55	2.55	2.55	2.55	2.55	2.55	2.55	2.55
58.80 CFS	2.55	2.55	2.55	2.55	2.55	2.55	2.55	2.55
67.20 CFS	2.55	2.55	2.55	2.59	2.60	2.97	3.43	3.43
75.60 CFS	3.43	3.43	3.48	3.49	3.45	3.43	3.43	3.43
84.00 CFS	3.47	4.54	4.54	4.58	4.59	4.57	4.54	4.54
92.40 CFS	4.54	4.54	4.59	4.59	4.56	4.54	5.24	6.97
100.80 CFS	6.98	8.08	8.08	8.08	8.08	9.01	10.02	10.02
109.20 CFS	10.02	10.02	12.18	12.34	14.81	15.88	18.22	23.90
117.60 CFS	29.21	189.88	193.12	230.82	237.94	161.93	80.79	74.74
126.00 CFS	31.54	31.45	18.30	17.15	13.66	12.17	11.39	9.41
134.40 CFS	9.29	7.25	7.19	7.19	7.19	6.41	5.53	5.60
142.80 CFS	6.09	6.06	4.55	4.43	4.43	4.43	4.57	4.98
151.20 CFS	4.95	4.44	4.43	4.43	4.43	4.18	3.87	3.80
159.60 CFS	3.32	3.32	3.32	3.32	3.68	3.87	3.75	3.32
168.00 CFS	3.29	2.77	2.77	2.31	2.21	2.46	2.77	2.70
176.40 CFS	2.21	2.21	2.75	2.77	2.77	2.77	2.62	2.21
184.80 CFS	2.23	2.77	2.77	2.77	2.77	2.51	2.21	2.21
193.20 CFS	2.21	2.21	1.68	1.66	2.03	2.21	2.06	1.66
201.60 CFS	1.66	2.21	2.21	1.75	1.66	1.92	2.21	2.14
210.00 CFS	1.66	1.66	2.18	2.21	1.83	1.66	1.66	1.66
218.40 CFS	1.64	1.12	1.11	1.57	1.66	1.39	1.11	1.17
226.80 CFS	1.66	1.66	1.15	1.11	1.11	1.11	1.26	1.66
235.20 CFS	1.63	1.12	1.11	1.57	1.66	1.40	1.11	.97
243.60 CFS	.00							

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.67 WATERSHED INCHES; 2219 CFS-HRS; 183.4 ACRE-FEET.

*** WARNING - MAIN TIME INCREMENT (1.050) IS GREATER THAN 50% OF THE
TIME OF CONCENTRATION (.79) FOR SUBWATERSHED XSECTION 4.
THIS WILL REDUCE THE COMPUTED PEAK BY ABOUT -3.0%. ***

OPERATION ADDHYD XSECTION 34

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
80.58	10.0	(NULL)
122.26	578.6	(NULL)
145.46	16.1	(NULL)
153.05	13.8	(NULL)
166.39	10.5	(NULL)
189.08	7.9	(NULL)
214.94	5.8	(NULL)
229.70	4.2	(NULL)
237.42	4.1	(NULL)
241.03	4.1	(NULL)

HYDROGRAPH POINTS FOR ALTERNATE = 2, STORM = 1
MAIN TIME INCREMENT = 1.050 hr, DRAINAGE AREA = 6.00 SQ.MI.

HRS								
.00 CFS	.00	.55	.55	1.92	2.32	3.27	3.82	4.01
8.40 CFS	4.07	4.09	4.09	4.07	4.32	4.43	4.65	4.86
16.80 CFS	4.94	5.01	5.02	5.04	5.06	5.04	5.04	5.07
25.20 CFS	5.21	5.24	5.43	5.48	5.53	5.54	5.51	5.47
33.60 CFS	5.46	5.45	5.45	5.50	5.51	5.53	5.54	5.52
42.00 CFS	5.48	5.46	5.45	5.45	5.49	5.51	5.70	6.20
50.40 CFS	6.37	7.02	7.27	7.34	7.37	7.37	7.37	7.37
58.80 CFS	7.37	7.37	7.37	7.37	7.37	7.37	7.37	7.37
67.20 CFS	7.37	7.37	7.37	7.42	7.43	7.86	8.35	8.75
75.60 CFS	9.53	9.82	9.96	9.99	10.02	10.03	10.00	9.96
84.00 CFS	9.98	11.05	11.07	12.43	12.97	13.17	13.22	13.21
92.40 CFS	13.17	13.15	13.20	13.20	13.23	13.24	13.90	15.60
100.80 CFS	16.16	19.87	20.90	22.53	23.14	24.26	25.32	26.26
109.20 CFS	28.06	28.73	31.10	31.32	36.53	38.78	44.23	52.66
117.60 CFS	61	230	239	481	569	564	517	445
126.00 CFS	260	203	116	88	60	49	41	35
134.40 CFS	32.39	26.91	25.52	22.51	21.34	20.20	19.22	18.46
142.80 CFS	17.40	16.85	15.81	15.88	13.99	13.18	13.07	13.40
151.20 CFS	13.48	13.56	13.77	13.18	12.93	12.60	12.28	11.93
159.60 CFS	10.94	10.71	10.00	9.73	10.01	10.18	10.46	10.46
168.00 CFS	10.44	9.37	9.14	7.96	7.58	7.19	7.13	7.21
176.40 CFS	7.20	7.33	7.28	7.07	7.64	7.90	7.84	7.45
184.80 CFS	7.35	7.29	7.06	7.66	7.91	7.73	7.45	7.19
193.20 CFS	6.68	6.49	5.91	5.86	5.60	5.49	5.66	5.66
201.60 CFS	5.66	5.67	5.47	5.59	5.75	5.54	5.51	5.60
210.00 CFS	5.60	5.73	5.66	5.46	5.66	5.74	5.41	5.01
218.40 CFS	4.85	4.28	4.25	4.05	3.87	4.09	4.11	4.02
226.80 CFS	4.02	3.87	3.96	4.15	3.59	3.32	3.40	3.77
235.20 CFS	3.87	3.95	4.15	4.02	3.86	4.09	4.11	3.80

243.60 CFS 2.36 2.07 .73 .22

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.66 WATERSHED INCHES; 6418 CFS-HRS; 530.4 ACRE-FEET.

OPERATION ADDHYD XSECTION 35

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
122.01	1061.9	(NULL)
145.47	28.5	(NULL)
153.03	24.8	(NULL)
166.06	19.0	(NULL)
175.15	13.2	(NULL)
178.35	13.3	(NULL)
181.83	14.3	(NULL)
185.71	13.3	(NULL)
188.96	14.4	(NULL)
214.86	10.3	(NULL)

HYDROGRAPH POINTS FOR ALTERNATE = 2, STORM = 1
MAIN TIME INCREMENT = 1.050 hr, DRAINAGE AREA = 10.84 SQ.MI.

HRS								
.00 CFS	.00	1.19	1.19	3.85	4.52	6.08	7.00	7.30
8.40 CFS	7.36	7.40	7.42	7.39	7.91	8.12	8.49	8.83
16.80 CFS	8.96	9.10	9.12	9.12	9.15	9.13	9.14	9.20
25.20 CFS	9.49	9.54	9.87	9.96	10.00	10.02	9.96	9.90
33.60 CFS	9.88	9.87	9.87	9.97	9.99	10.02	10.02	9.99
42.00 CFS	9.91	9.88	9.87	9.87	9.95	9.99	10.44	11.44
50.40 CFS	11.73	12.80	13.20	13.31	13.34	13.35	13.35	13.35
58.80 CFS	13.35	13.35	13.35	13.35	13.35	13.35	13.35	13.35
67.20 CFS	13.35	13.35	13.35	13.45	13.47	14.42	15.41	16.09
75.60 CFS	17.36	17.82	18.07	18.11	18.14	18.15	18.09	18.03
84.00 CFS	18.11	20.38	20.42	22.71	23.58	23.86	23.93	23.92
92.40 CFS	23.84	23.82	23.92	23.92	23.94	23.95	25.32	29.08
100.80 CFS	30.20	36.75	38.41	41.00	41.99	44.34	46.53	48.13
109.20 CFS	51.07	52.13	57.24	57.56	67.36	71.55	81.92	98.45
117.60 CFS	118	479	494	915	1058	997	886	761
126.00 CFS	436	342	195	151	104	86	73	61
134.40 CFS	57.42	47.43	45.22	40.37	38.49	36.20	34.21	32.95
142.80 CFS	31.48	30.65	28.08	28.21	25.17	23.80	23.72	24.46
151.20 CFS	24.62	24.45	24.77	23.79	23.39	22.67	22.04	21.43
159.60 CFS	19.55	19.16	18.01	17.58	18.31	18.62	19.00	18.80
168.00 CFS	18.74	16.71	16.34	14.13	13.50	13.04	13.07	13.19
176.40 CFS	12.92	13.10	13.29	12.96	13.90	14.33	14.12	13.31
184.80 CFS	13.11	13.30	12.97	13.95	14.35	13.87	13.31	12.87
193.20 CFS	12.03	11.72	10.49	10.42	10.25	10.10	10.30	10.10
201.60 CFS	10.13	10.38	10.06	10.03	10.26	10.05	10.13	10.26
210.00 CFS	10.01	10.20	10.36	10.05	10.15	10.24	9.67	9.02
218.40 CFS	8.77	7.55	7.49	7.44	7.17	7.34	7.28	7.15
226.80 CFS	7.40	7.19	7.04	7.36	6.44	5.99	6.21	7.01
235.20 CFS	7.19	7.03	7.34	7.39	7.16	7.37	7.28	6.69

243.60 CFS 3.83 3.33 1.14 .32

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.66 WATERSHED INCHES; 11620 CFS-HRS; 960.3 ACRE-FEET.

OPERATION DIVERT XSECTION 35
OUTPUT #1 HYDROGRAPH

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
122.01	1061.9	(DIVERT)
145.47	28.5	(DIVERT)
153.03	24.8	(DIVERT)
166.06	19.0	(DIVERT)
175.15	13.2	(DIVERT)
178.35	13.3	(DIVERT)
181.83	14.3	(DIVERT)
185.71	13.3	(DIVERT)
188.96	14.4	(DIVERT)
214.86	10.3	(DIVERT)

HYDROGRAPH POINTS FOR ALTERNATE = 2, STORM = 1
MAIN TIME INCREMENT = 1.050 hr, DRAINAGE AREA = 10.84 SQ.MI.

HRS								
.00 CFS	.00	1.19	1.19	3.85	4.52	6.08	7.00	7.30
8.40 CFS	7.36	7.40	7.42	7.39	7.91	8.12	8.49	8.83
16.80 CFS	8.96	9.10	9.12	9.12	9.15	9.13	9.14	9.20
25.20 CFS	9.49	9.54	9.87	9.96	10.00	10.02	9.96	9.90
33.60 CFS	9.88	9.87	9.87	9.97	9.99	10.02	10.02	9.99
42.00 CFS	9.91	9.88	9.87	9.87	9.95	9.99	10.44	11.44
50.40 CFS	11.73	12.80	13.20	13.31	13.34	13.35	13.35	13.35
58.80 CFS	13.35	13.35	13.35	13.35	13.35	13.35	13.35	13.35
67.20 CFS	13.35	13.35	13.35	13.45	13.47	14.42	15.41	16.09
75.60 CFS	17.36	17.82	18.07	18.11	18.14	18.15	18.09	18.03
84.00 CFS	18.11	20.38	20.42	22.71	23.58	23.86	23.93	23.92
92.40 CFS	23.84	23.82	23.92	23.92	23.94	23.95	25.32	29.08
100.80 CFS	30.20	36.75	38.41	41.00	41.99	44.34	46.53	48.13
109.20 CFS	51.07	52.13	57.24	57.56	67.36	71.55	81.92	98.45
117.60 CFS	118	479	494	915	1058	997	886	761
126.00 CFS	436	342	195	151	104	86	73	61
134.40 CFS	57.42	47.43	45.22	40.37	38.49	36.20	34.21	32.95
142.80 CFS	31.48	30.65	28.08	28.21	25.17	23.80	23.72	24.46
151.20 CFS	24.62	24.45	24.77	23.79	23.39	22.67	22.04	21.43
159.60 CFS	19.55	19.16	18.01	17.58	18.31	18.62	19.00	18.80
168.00 CFS	18.74	16.71	16.34	14.13	13.50	13.04	13.07	13.19
176.40 CFS	12.92	13.10	13.29	12.96	13.90	14.33	14.12	13.31
184.80 CFS	13.11	13.30	12.97	13.95	14.35	13.87	13.31	12.87
193.20 CFS	12.03	11.72	10.49	10.42	10.25	10.10	10.30	10.10
201.60 CFS	10.13	10.38	10.06	10.03	10.26	10.05	10.13	10.26
210.00 CFS	10.01	10.20	10.36	10.05	10.15	10.24	9.67	9.02
218.40 CFS	8.77	7.55	7.49	7.44	7.17	7.34	7.28	7.15
226.80 CFS	7.40	7.19	7.04	7.36	6.44	5.99	6.21	7.01

235.20 CFS	7.19	7.03	7.34	7.39	7.16	7.37	7.28	6.69
243.60 CFS	3.83	3.33	1.14	.32				

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.66 WATERSHED INCHES; 11620 CFS-HRS; 960.3 ACRE-FEET.

OUTPUT #2 DIVERTED HYDROGRAPH (XSECTION 199)

*** MESSAGE - HYDROGRAPH CONTAINS NO FLOW ***

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
238 CFS-HRS; 960.3 ACRE-FEET.

*** WARNING - ROUTING COEFFICIENT (C) EQUALS 1.0,
CONSIDER SMALLER MAIN TIME INCREMENT FOR XSECTION 45. ***

OPERATION REACH XSECTION 45

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
122.01	1061.9	2.32
145.47	28.5	.17
153.03	24.8	.15
166.06	19.0	.11
175.15	13.2	.08
178.35	13.3	.08
181.83	14.3	.09
185.71	13.3	.08
188.96	14.4	.09
214.86	10.3	.06

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.66 WATERSHED INCHES; 11620 CFS-HRS; 960.3 ACRE-FEET.

OPERATION RUNOFF XSECTION 6

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
121.27	178.9	(RUNOFF)
143.18	4.5	(RUNOFF)
150.54	3.7	(RUNOFF)
169.58	2.1	(RUNOFF)
174.29	2.0	(RUNOFF)
181.13	2.1	(RUNOFF)
188.48	2.1	(RUNOFF)
212.62	1.7	(RUNOFF)
234.63	1.2	(RUNOFF)
239.03	1.2	(RUNOFF)

HYDROGRAPH POINTS FOR ALTERNATE = 2, STORM = 1
MAIN TIME INCREMENT = 1.050 hr, DRAINAGE AREA = 1.47 SQ.MI.

HRS									
2.10	CFS	.41	.95	1.02	1.04	1.06	1.05	1.02	1.02
10.50	CFS	1.06	1.06	1.22	1.26	1.26	1.26	1.27	1.30
18.90	CFS	1.30	1.26	1.26	1.29	1.30	1.33	1.38	1.39
27.30	CFS	1.42	1.42	1.39	1.38	1.38	1.38	1.38	1.38
35.70	CFS	1.39	1.42	1.42	1.39	1.38	1.38	1.38	1.38
44.10	CFS	1.38	1.38	1.42	1.42	1.68	1.87	1.87	1.87
52.50	CFS	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87
60.90	CFS	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87
69.30	CFS	1.87	1.91	1.91	2.31	2.52	2.52	2.52	2.52
77.70	CFS	2.56	2.56	2.53	2.52	2.52	2.52	2.57	3.34
86.10	CFS	3.34	3.37	3.38	3.35	3.34	3.34	3.34	3.34
94.50	CFS	3.38	3.38	3.34	3.34	4.29	5.13	5.29	5.94
102.90	CFS	5.94	5.94	5.94	7.05	7.37	7.37	7.37	7.58
111.30	CFS	9	9	12	12	15	18	49	142
119.70	CFS	144	175	175	82	59	45	23	22
128.10	CFS	12.62	12.62	9.38	8.96	7.83	6.92	6.58	5.29
136.50	CFS	5.29	5.29	5.29	4.46	4.07	4.20	4.48	4.43
144.90	CFS	3.29	3.26	3.26	3.26	3.45	3.66	3.63	3.26
153.30	CFS	3.26	3.26	3.26	3.00	2.85	2.75	2.44	2.44
161.70	CFS	2.44	2.44	2.76	2.85	2.66	2.44	2.40	2.04
170.10	CFS	2.04	1.66	1.63	1.91	2.04	1.90	1.63	1.66
178.50	CFS	2.04	2.04	2.04	2.04	1.81	1.63	1.72	2.04
186.90	CFS	2.04	2.04	2.04	1.71	1.63	1.63	1.63	1.57
195.30	CFS	1.22	1.22	1.63	1.63	1.39	1.22	1.32	1.63
203.70	CFS	1.61	1.22	1.22	1.53	1.63	1.47	1.22	1.26
212.10	CFS	1.63	1.63	1.28	1.22	1.22	1.22	1.15	.81
220.50	CFS	.81	1.19	1.22	.95	.81	.92	1.22	1.22
228.90	CFS	.83	.81	.81	.81	1.00	1.22	1.21	.82
237.30	CFS	.81	1.18	1.22	.96	.81	.61	.00	

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.68 WATERSHED INCHES; 1598 CFS-HRS; 132.0 ACRE-FEET.

*** WARNING - MAIN TIME INCREMENT (1.050) IS GREATER THAN 50% OF THE
TIME OF CONCENTRATION (.47) FOR SUBWATERSHED XSECTION 6.
THIS WILL REDUCE THE COMPUTED PEAK BY ABOUT -2.3%. ***

OPERATION REACH XSECTION 60

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
122.40	180.7	2.78
144.39	4.5	.11
151.78	3.7	.09
165.88	2.8	.07
182.19	2.1	.05
189.53	2.1	.05
213.87	1.6	.04
223.45	1.2	.03
228.53	1.2	.03
235.83	1.2	.03

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.67 WATERSHED INCHES; 1587 CFS-HRS; 131.1 ACRE-FEET.

*** WARNING - ROUTING COEFFICIENT (C) EQUALS 1.0,
CONSIDER SMALLER MAIN TIME INCREMENT FOR XSECTION 67. ***

OPERATION REACH XSECTION 67

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
122.40	180.7	1.83
144.39	4.5	.32
151.78	3.7	.26
165.88	2.8	.20
182.19	2.1	.14
189.53	2.1	.14
213.87	1.6	.11
223.45	1.2	.08
228.53	1.2	.09
235.83	1.2	.09

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.67 WATERSHED INCHES; 1587 CFS-HRS; 131.1 ACRE-FEET.

OPERATION ADDHYD XSECTION 64

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
122.07	1233.0	(NULL)
152.80	28.2	(NULL)
166.01	21.8	(NULL)
175.28	15.2	(NULL)
181.83	16.4	(NULL)
186.13	15.0	(NULL)
188.96	16.4	(NULL)
214.17	11.8	(NULL)
229.44	8.4	(NULL)
240.47	8.6	(NULL)

HYDROGRAPH POINTS FOR ALTERNATE = 2, STORM = 1
MAIN TIME INCREMENT = 1.050 hr, DRAINAGE AREA = 12.31 SQ.MI.

HRS								
.00	CFS	.00	1.19	1.52	4.24	5.36	7.06	8.03	8.35
8.40	CFS	8.41	8.42	8.44	8.44	8.97	9.31	9.73	10.09
16.80	CFS	10.22	10.37	10.41	10.42	10.42	10.40	10.43	10.50
25.20	CFS	10.81	10.91	11.25	11.37	11.42	11.41	11.35	11.28
33.60	CFS	11.26	11.25	11.25	11.36	11.41	11.44	11.41	11.38
42.00	CFS	11.29	11.26	11.25	11.25	11.34	11.40	11.86	13.07
50.40	CFS	13.55	14.66	15.07	15.18	15.21	15.22	15.22	15.22
58.80	CFS	15.22	15.22	15.22	15.22	15.22	15.22	15.22	15.22
67.20	CFS	15.22	15.22	15.22	15.33	15.37	16.33	17.63	18.55
75.60	CFS	19.87	20.34	20.59	20.66	20.70	20.69	20.62	20.55
84.00	CFS	20.64	22.95	23.60	26.01	26.94	27.24	27.28	27.26
92.40	CFS	27.18	27.15	27.26	27.29	27.32	27.30	28.66	33.18
100.80	CFS	35.12	41.97	44.21	46.92	47.93	50.28	53.35	55.39
109.20	CFS	58	59	65	66	76	83	93	113
117.60	CFS	135	522	616	1054	1226	1171	987	829
126.00	CFS	485	371	218	166	117	96	82	69
134.40	CFS	64.59	54.13	50.80	45.72	43.80	41.49	38.84	37.13
142.80	CFS	35.67	35.07	32.51	31.73	28.48	27.06	26.98	27.86
151.20	CFS	28.23	28.08	28.10	27.06	26.65	25.93	25.09	24.32
159.60	CFS	22.33	21.67	20.46	20.03	20.75	21.32	21.82	21.49
168.00	CFS	21.23	19.13	18.45	16.18	15.24	14.69	14.92	15.19
176.40	CFS	14.84	14.79	14.95	14.91	15.92	16.36	16.15	15.16
184.80	CFS	14.78	15.01	14.94	15.97	16.38	15.91	15.08	14.52
193.20	CFS	13.67	13.35	12.08	11.71	11.49	11.65	11.91	11.54
201.60	CFS	11.39	11.69	11.62	11.62	11.56	11.28	11.61	11.86
210.00	CFS	11.51	11.47	11.63	11.61	11.77	11.59	10.91	10.25
218.40	CFS	9.99	8.71	8.38	8.27	8.28	8.53	8.28	8.00
226.80	CFS	8.31	8.34	8.25	8.26	7.27	6.81	7.02	7.97
235.20	CFS	8.35	8.24	8.24	8.22	8.27	8.57	8.29	7.54
243.60	CFS	4.48	3.46	1.16	.32				

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.66 WATERSHED INCHES; 13207 CFS-HRS; 1091.4 ACRE-FEET.

OPERATION RUNOFF XSECTION 5

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
78.28	8.1	(RUNOFF)
121.36	569.3	(RUNOFF)
138.08	16.9	(RUNOFF)
143.30	14.3	(RUNOFF)
150.60	11.7	(RUNOFF)
164.86	9.0	(RUNOFF)
174.64	6.5	(RUNOFF)
180.43	6.4	(RUNOFF)
188.48	6.5	(RUNOFF)
208.22	5.2	(RUNOFF)

HYDROGRAPH POINTS FOR ALTERNATE = 2, STORM = 1
MAIN TIME INCREMENT = 1.050 hr, DRAINAGE AREA = 4.78 SQ.MI.

HRS								
.00 CFS	.00	1.28	1.28	2.92	3.21	3.27	3.34	3.32
8.40 CFS	3.21	3.21	3.33	3.34	3.76	3.98	3.98	3.98
16.80 CFS	3.98	4.11	4.11	4.00	3.98	4.04	4.11	4.14
25.20 CFS	4.37	4.37	4.48	4.49	4.41	4.37	4.37	4.37
33.60 CFS	4.37	4.37	4.37	4.47	4.49	4.43	4.37	4.37
42.00 CFS	4.37	4.37	4.37	4.37	4.46	4.49	4.87	5.91
50.40 CFS	5.91	5.91	5.91	5.91	5.91	5.91	5.91	5.91
58.80 CFS	5.91	5.91	5.91	5.91	5.91	5.91	5.91	5.91
67.20 CFS	5.91	5.91	5.91	6.01	6.03	6.91	7.96	7.96
75.60 CFS	7.96	7.96	8.08	8.09	8.00	7.96	7.96	7.96
84.00 CFS	8.07	10.47	10.53	10.64	10.66	10.60	10.53	10.53
92.40 CFS	10.53	10.53	10.65	10.66	10.57	10.53	12.17	16.18
100.80 CFS	16.22	18.72	18.75	18.75	18.75	20.91	23.24	23.24
109.20 CFS	23.24	23.31	28.33	28.63	34.05	36.85	41.93	55.47
117.60 CFS	62	448	448	537	552	373	187	174
126.00 CFS	73.19	72.66	42.18	39.80	32.11	28.25	26.69	21.83
134.40 CFS	21.61	16.69	16.69	16.69	16.69	14.82	12.84	13.01
142.80 CFS	14.12	14.10	10.56	10.27	10.27	10.27	10.59	11.56
151.20 CFS	11.48	10.28	10.27	10.27	10.27	9.67	8.99	8.82
159.60 CFS	7.70	7.70	7.70	7.70	8.62	8.99	8.63	7.70
168.00 CFS	7.63	6.44	6.42	5.35	5.14	5.72	6.42	6.27
176.40 CFS	5.14	5.14	6.36	6.42	6.42	6.42	6.04	5.14
184.80 CFS	5.20	6.39	6.42	6.42	6.42	5.83	5.14	5.14
193.20 CFS	5.14	5.14	3.89	3.85	4.72	5.14	4.76	3.85
201.60 CFS	3.89	5.11	5.14	4.05	3.85	4.46	5.14	4.97
210.00 CFS	3.85	3.86	5.08	5.14	4.29	3.85	3.85	3.85
218.40 CFS	3.85	2.57	2.57	3.66	3.85	3.23	2.57	2.73
226.80 CFS	3.85	3.83	2.65	2.57	2.57	2.57	2.90	3.85
235.20 CFS	3.81	2.57	2.57	3.65	3.85	3.22	2.57	2.25
243.60 CFS	.00							

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.67 WATERSHED INCHES; 5155 CFS-HRS; 426.0 ACRE-FEET.

*** WARNING - MAIN TIME INCREMENT (1.050) IS GREATER THAN 50% OF THE
TIME OF CONCENTRATION (.78) FOR SUBWATERSHED XSECTION 5.
THIS WILL REDUCE THE COMPUTED PEAK BY ABOUT -3.1%. ***

OPERATION RUNOFF XSECTION 7

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
121.49	403.1	(RUNOFF)
143.33	10.5	(RUNOFF)
150.66	8.4	(RUNOFF)
165.11	6.5	(RUNOFF)
174.73	4.7	(RUNOFF)
180.93	4.6	(RUNOFF)
188.48	4.7	(RUNOFF)
192.68	3.7	(RUNOFF)
208.35	3.8	(RUNOFF)
212.82	3.7	(RUNOFF)

HYDROGRAPH POINTS FOR ALTERNATE = 2, STORM = 1
MAIN TIME INCREMENT = 1.050 hr, DRAINAGE AREA = 3.48 SQ.MI.

HRS								
.00 CFS	.00	.90	.93	1.92	2.32	2.35	2.41	2.40
8.40 CFS	2.32	2.32	2.40	2.41	2.65	2.87	2.87	2.87
16.80 CFS	2.88	2.96	2.97	2.90	2.87	2.90	2.97	2.98
25.20 CFS	3.15	3.15	3.23	3.25	3.20	3.15	3.15	3.15
33.60 CFS	3.15	3.15	3.15	3.22	3.25	3.22	3.15	3.15
42.00 CFS	3.15	3.15	3.15	3.15	3.20	3.25	3.39	4.27
50.40 CFS	4.27	4.27	4.27	4.27	4.27	4.27	4.27	4.27
58.80 CFS	4.27	4.27	4.27	4.27	4.27	4.27	4.27	4.27
67.20 CFS	4.27	4.27	4.27	4.33	4.36	4.79	5.75	5.75
75.60 CFS	5.75	5.75	5.83	5.84	5.79	5.75	5.75	5.75
84.00 CFS	5.79	7.52	7.60	7.67	7.70	7.67	7.60	7.60
92.40 CFS	7.60	7.60	7.69	7.70	7.65	7.60	8.19	11.68
100.80 CFS	11.70	13.48	13.54	13.54	13.54	14.58	16.78	16.78
109.20 CFS	16.78	16.78	20.14	20.68	23.74	26.61	28.86	40.03
117.60 CFS	43	311	324	377	399	317	135	130
126.00 CFS	53.45	52.79	32.22	28.75	24.51	20.40	19.64	15.76
134.40 CFS	15.69	12.24	12.05	12.05	12.05	11.18	9.27	9.32
142.80 CFS	10.19	10.20	7.75	7.42	7.42	7.42	7.55	8.35
151.20 CFS	8.33	7.45	7.42	7.42	7.42	7.12	6.49	6.44
159.60 CFS	5.57	5.56	5.56	5.56	6.04	6.49	6.34	5.57
168.00 CFS	5.56	4.67	4.64	3.97	3.71	4.00	4.64	4.57
176.40 CFS	3.72	3.71	4.50	4.64	4.64	4.64	4.48	3.71
184.80 CFS	3.73	4.59	4.64	4.64	4.64	4.35	3.71	3.71
193.20 CFS	3.71	3.71	2.89	2.78	3.25	3.71	3.58	2.78
201.60 CFS	2.80	3.68	3.71	3.06	2.78	3.08	3.71	3.66
210.00 CFS	2.79	2.78	3.60	3.71	3.23	2.78	2.78	2.78
218.40 CFS	2.78	1.88	1.85	2.52	2.78	2.49	1.85	1.92
226.80 CFS	2.77	2.78	1.99	1.85	1.85	1.85	2.01	2.78
235.20 CFS	2.77	1.90	1.85	2.51	2.78	2.50	1.85	1.76

243.60 CFS .00

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.68 WATERSHED INCHES; 3762 CFS-HRS; 310.9 ACRE-FEET.

*** WARNING - MAIN TIME INCREMENT (1.050) IS GREATER THAN 50% OF THE
TIME OF CONCENTRATION (1.01) FOR SUBWATERSHED XSECTION 7.
THIS WILL REDUCE THE COMPUTED PEAK BY ABOUT -1.1%. ***

OPERATION ADDHYD XSECTION 75

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
121.40	971.9	(NULL)
138.08	29.1	(NULL)
143.32	24.6	(NULL)
150.63	20.1	(NULL)
164.97	15.5	(NULL)
174.68	11.2	(NULL)
180.84	11.1	(NULL)
188.48	11.2	(NULL)
208.28	8.9	(NULL)
212.74	9.0	(NULL)

HYDROGRAPH POINTS FOR ALTERNATE = 2, STORM = 1
MAIN TIME INCREMENT = 1.050 hr, DRAINAGE AREA = 8.26 SQ.MI.

HRS								
.00 CFS	.00	2.18	2.21	4.84	5.53	5.62	5.75	5.73
8.40 CFS	5.53	5.53	5.73	5.75	6.41	6.85	6.85	6.85
16.80 CFS	6.86	7.07	7.08	6.90	6.85	6.95	7.08	7.12
25.20 CFS	7.52	7.52	7.72	7.74	7.61	7.52	7.52	7.52
33.60 CFS	7.52	7.52	7.52	7.69	7.74	7.65	7.52	7.52
42.00 CFS	7.52	7.52	7.52	7.52	7.66	7.74	8.26	10.17
50.40 CFS	10.17	10.17	10.17	10.17	10.17	10.17	10.17	10.17
58.80 CFS	10.17	10.17	10.17	10.17	10.17	10.17	10.17	10.17
67.20 CFS	10.17	10.17	10.17	10.35	10.39	11.70	13.71	13.71
75.60 CFS	13.71	13.71	13.91	13.93	13.80	13.71	13.71	13.71
84.00 CFS	13.86	17.99	18.13	18.31	18.35	18.26	18.13	18.13
92.40 CFS	18.13	18.13	18.34	18.35	18.22	18.13	20.36	27.86
100.80 CFS	27.93	32.20	32.28	32.28	32.28	35.49	40.02	40.02
109.20 CFS	40.02	40.10	48.47	49.31	57.79	63.46	70.79	95.50
117.60 CFS	105	759	772	914	951	690	323	304
126.00 CFS	127	125	74	69	57	49	46	38
134.40 CFS	37.30	28.93	28.75	28.75	28.75	26.00	22.11	22.33
142.80 CFS	24.32	24.30	18.31	17.69	17.69	17.69	18.15	19.90
151.20 CFS	19.81	17.72	17.69	17.69	17.69	16.79	15.48	15.26
159.60 CFS	13.28	13.27	13.27	13.27	14.67	15.48	14.97	13.27
168.00 CFS	13.19	11.12	11.06	9.32	8.84	9.72	11.06	10.84
176.40 CFS	8.85	8.85	10.86	11.06	11.06	11.06	10.52	8.85
184.80 CFS	8.93	10.98	11.06	11.06	11.06	10.18	8.84	8.84
193.20 CFS	8.84	8.84	6.78	6.63	7.97	8.84	8.33	6.63
201.60 CFS	6.69	8.79	8.84	7.11	6.63	7.54	8.85	8.63

210.00 CFS	6.64	6.64	8.68	8.84	7.52	6.63	6.63	6.63
218.40 CFS	6.63	4.45	4.42	6.18	6.63	5.71	4.42	4.64
226.80 CFS	6.62	6.61	4.64	4.42	4.42	4.42	4.91	6.63
235.20 CFS	6.58	4.47	4.42	6.16	6.63	5.72	4.42	4.01
243.60 CFS	.00							

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.67 WATERSHED INCHES; 8917 CFS-HRS; 736.9 ACRE-FEET.

OPERATION ADDHYD XSECTION 76

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
121.69	2179.1	(NULL)
142.76	60.0	(NULL)
150.79	48.2	(NULL)
165.37	37.0	(NULL)
174.85	26.3	(NULL)
181.52	27.4	(NULL)
188.72	27.5	(NULL)
198.77	20.6	(NULL)
203.17	20.8	(NULL)
208.44	20.8	(NULL)

HYDROGRAPH POINTS FOR ALTERNATE = 2, STORM = 1
MAIN TIME INCREMENT = 1.050 hr, DRAINAGE AREA = 20.57 SQ.MI.

HRS								
.00 CFS	.00	3.38	3.73	9.09	10.89	12.68	13.78	14.08
8.40 CFS	13.94	13.95	14.17	14.19	15.38	16.17	16.59	16.95
16.80 CFS	17.08	17.44	17.49	17.33	17.28	17.34	17.50	17.62
25.20 CFS	18.33	18.43	18.97	19.11	19.03	18.93	18.87	18.80
33.60 CFS	18.78	18.77	18.77	19.05	19.14	19.09	18.93	18.89
42.00 CFS	18.81	18.78	18.77	18.77	18.99	19.14	20.12	23.24
50.40 CFS	23.72	24.83	25.24	25.35	25.38	25.39	25.39	25.39
58.80 CFS	25.39	25.39	25.39	25.39	25.39	25.39	25.39	25.39
67.20 CFS	25.39	25.39	25.39	25.67	25.76	28.03	31.34	32.26
75.60 CFS	33.58	34.05	34.50	34.59	34.49	34.39	34.33	34.26
84.00 CFS	34.49	40.94	41.73	44.32	45.29	45.50	45.41	45.39
92.40 CFS	45.31	45.29	45.60	45.65	45.54	45.44	49.02	61.04
100.80 CFS	63.04	74.17	76.49	79.20	80.21	85.77	93.38	95.41
109.20 CFS	98	100	113	116	134	146	164	208
117.60 CFS	240	1281	1387	1968	2176	1861	1310	1133
126.00 CFS	612	496	293	234	174	144	129	107
134.40 CFS	102	83	80	74	73	67	61	59
142.80 CFS	59.99	59.37	50.82	49.42	46.17	44.75	45.13	47.77
151.20 CFS	48.04	45.80	45.79	44.75	44.34	42.72	40.57	39.58
159.60 CFS	35.61	34.94	33.73	33.30	35.42	36.80	36.79	34.76
168.00 CFS	34.42	30.24	29.51	25.50	24.08	24.42	25.98	26.03
176.40 CFS	23.70	23.63	25.80	25.97	26.98	27.42	26.68	24.01
184.80 CFS	23.71	25.99	26.00	27.02	27.44	26.09	23.93	23.37
193.20 CFS	22.51	22.19	18.86	18.35	19.46	20.50	20.24	18.17
201.60 CFS	18.08	20.48	20.46	18.73	18.19	18.82	20.45	20.49

210.00 CFS	18.16	18.12	20.31	20.45	19.28	18.22	17.55	16.88
218.40 CFS	16.62	13.16	12.80	14.45	14.92	14.25	12.70	12.65
226.80 CFS	14.93	14.96	12.89	12.68	11.69	11.23	11.94	14.61
235.20 CFS	14.93	12.71	12.66	14.39	14.90	14.29	12.71	11.55
243.60 CFS	4.48	3.46	1.16	.32				

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.67 WATERSHED INCHES; 22124 CFS-HRS; 1828.3 ACRE-FEET.

--- XSECTION 76, ALTERNATE 2, STORM 1, HYDROGRAPH ADDED TO READHD FILE ---

*** MESSAGE - STRUCTURE 1, USER ENTERED STARTING ELEVATION (1204.6 FEET) CAN ADD 1.174 INCHES OF RUNOFF TO THE OUTFLOW HYDROGRAPH VOLUME.***

*** MESSAGE - RESERVOIR ROUTING, STRUCTURE 1, TRUNCATED AT 400 POINTS WITH 1124.43 AC-FT (.08 WATERSHED INCHES) FLOOD STORAGE REMAINING IN RESERVOIR AT ELEV. 1203.69. ***

OPERATION RESVOR STRUCTURE 1

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
.00	50.5	1204.56
138.84	71.0	1208.85

*** WARNING - STRUCTURE 1, HYDROGRAPH VOLUME TRUNCATED AT 47 CFS
RESVOR (66. % OF MAX. HYDROGRAPH COORDINATE)
MAIN TIME INCREMENT TOO SMALL. ***

HYDROGRAPH POINTS FOR ALTERNATE = 2, STORM = 1
MAIN TIME INCREMENT = 1.050 hr, DRAINAGE AREA = 20.57 SQ.MI.

HRS								
.00 CFS	50.46	50.37	50.28	50.20	50.12	50.05	49.98	49.91
8.40 CFS	49.84	49.77	49.70	49.63	49.57	49.50	49.44	49.38
16.80 CFS	49.32	49.25	49.19	49.13	49.07	49.01	48.95	48.89
25.20 CFS	48.83	48.77	48.72	48.66	48.60	48.55	48.49	48.43
33.60 CFS	48.38	48.32	48.26	48.21	48.15	48.10	48.04	47.98
42.00 CFS	47.91	47.84	47.77	47.70	47.63	47.56	47.49	47.42
50.40 CFS	47.37	47.31	47.25	47.20	47.15	47.09	47.04	46.99
58.80 CFS	46.94	46.88	46.83	46.78	46.73	46.67	46.62	46.57
67.20 CFS	46.52	46.47	46.42	46.36	46.31	46.27	46.23	46.19
75.60 CFS	46.16	46.13	46.10	46.07	46.04	46.02	45.99	45.96
84.00 CFS	45.93	45.91	45.90	45.89	45.89	45.89	45.89	45.89
92.40 CFS	45.88	45.88	45.88	45.88	45.88	45.88	45.88	45.90
100.80 CFS	45.94	46.00	46.07	46.15	46.23	46.32	46.43	46.54
109.20 CFS	46.67	46.79	46.94	47.10	47.29	47.52	47.78	48.10
117.60 CFS	48.43	49.79	52.25	55.36	59.04	62.51	65.21	67.22
126.00 CFS	68.58	69.40	69.95	70.28	70.51	70.66	70.77	70.85
134.40 CFS	70.90	70.94	70.96	70.97	70.97	70.97	70.96	70.94
142.80 CFS	70.92	70.90	70.88	70.84	70.80	70.76	70.72	70.67
151.20 CFS	70.64	70.60	70.55	70.51	70.47	70.42	70.37	70.32
159.60 CFS	70.27	70.21	70.15	70.08	70.02	69.97	69.91	69.85

168.00 CFS	69.79	69.73	69.66	69.59	69.52	69.44	69.36	69.29
176.40 CFS	69.22	69.14	69.06	68.99	68.92	68.85	68.78	68.70
184.80 CFS	68.63	68.55	68.48	68.41	68.34	68.27	68.20	68.12
193.20 CFS	68.05	67.97	67.89	67.80	67.72	67.64	67.56	67.48
201.60 CFS	67.40	67.31	67.24	67.15	67.07	66.99	66.91	66.83
210.00 CFS	66.75	66.67	66.59	66.51	66.43	66.35	66.26	66.18
218.40 CFS	66.09	66.00	65.90	65.81	65.72	65.63	65.54	65.44
226.80 CFS	65.35	65.26	65.17	65.08	64.99	64.89	64.80	64.70
235.20 CFS	64.62	64.53	64.43	64.34	64.26	64.17	64.08	63.99
243.60 CFS	63.89	63.78	63.67	63.56	63.45	63.34	63.22	63.11
252.00 CFS	63.00	62.89	62.78	62.67	62.55	62.44	62.33	62.22
260.40 CFS	62.11	62.00	61.89	61.78	61.67	61.56	61.46	61.35
268.80 CFS	61.24	61.13	61.02	60.91	60.80	60.70	60.59	60.48
277.20 CFS	60.37	60.27	60.16	60.05	59.95	59.84	59.74	59.63
285.60 CFS	59.52	59.42	59.31	59.21	59.10	59.00	58.89	58.79
294.00 CFS	58.69	58.58	58.48	58.37	58.27	58.17	58.06	57.96
302.40 CFS	57.86	57.76	57.65	57.55	57.45	57.35	57.25	57.14
310.80 CFS	57.04	56.94	56.84	56.74	56.63	56.52	56.41	56.30
319.20 CFS	56.20	56.09	55.98	55.87	55.77	55.66	55.55	55.45
327.60 CFS	55.34	55.24	55.13	55.03	54.92	54.81	54.71	54.61
336.00 CFS	54.50	54.40	54.29	54.19	54.09	53.98	53.88	53.78
344.40 CFS	53.67	53.57	53.47	53.37	53.26	53.16	53.06	52.96
352.80 CFS	52.86	52.76	52.66	52.55	52.45	52.35	52.25	52.15
361.20 CFS	52.05	51.95	51.86	51.76	51.66	51.56	51.46	51.36
369.60 CFS	51.26	51.17	51.07	50.97	50.87	50.77	50.68	50.58
378.00 CFS	50.48	50.39	50.29	50.20	50.10	50.00	49.91	49.81
386.40 CFS	49.72	49.62	49.53	49.43	49.34	49.24	49.15	49.06
394.80 CFS	48.96	48.87	48.77	48.68	48.59	48.50	48.40	48.31
403.20 CFS	48.22	48.13	48.03	47.93	47.81	47.69	47.57	47.46
411.60 CFS	47.34	47.23	47.11	47.00	46.88	46.77	46.65	46.54

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.79 WATERSHED INCHES; 23762 CFS-HRS; 1963.7 ACRE-FEET.

--- STRUCTURE 1, ALTERNATE 2, STORM 1, HYDROGRAPH ADDED TO READHD FILE ---

EXECUTIVE CONTROL ENDCMP COMPUTATIONS COMPLETED FOR PASS 2

SUMMARY TABLE 1

SELECTED RESULTS OF STANDARD AND EXECUTIVE CONTROL IN ORDER PERFORMED.
A CHARACTER FOLLOWING THE PEAK DISCHARGE TIME AND RATE (CFS) INDICATES:
F-FLAT TOP HYDROGRAPH T-TRUNCATED HYDROGRAPH R-RISING TRUNCATED HYDROGRAPH

RAINFALL OF 1.64 inches AND 242.40 hr DURATION, BEGINS AT .0 hrs.
RAINTABLE NUMBER 1, ARC 2
MAIN TIME INCREMENT 1.050 HOURS

ALTERNATE 1 STORM 1

XSECTION/ STRUCTURE ID		STANDARD CONTROL OPERATION	DRAINAGE AREA (SQ MI)	RUNOFF AMOUNT (IN)	PEAK DISCHARGE ELEVATION (FT)	TIME (HR)	RATE (CFS)	RATE (CSM)
XSECTION	1	RUNOFF	2.46	1.68	---	121.40	290	117.9
XSECTION	5	REACH	2.46	1.62	2.23	122.55	283	115.0
XSECTION	10	REACH	2.46	1.66	3.72	123.70	277	112.6
XSECTION	2	RUNOFF	2.38	1.67	---	121.33	285	119.7
XSECTION	12	ADDHYD	4.84	1.67	---	121.80	488	100.8
XSECTION	12	DIVERT	4.84	1.67	---	121.80	488	100.8
XSECTION	200	DIVERT	.00	1.67	---	.00	0	********
XSECTION	20	REACH	4.84	1.67	2.45	121.80	488	100.8
XSECTION	25	REACH	4.84	1.67	1.54	121.80	488	100.8
XSECTION	3	RUNOFF	3.94	1.67	---	121.39	462	117.3
XSECTION	30	REACH	3.94	1.61	2.56	122.60	444	112.7
XSECTION	5	REACH	3.94	1.65	2.71	123.73	437	110.9
XSECTION	25	REACH	3.94	1.65	1.44	123.73	437	110.9
XSECTION	4	RUNOFF	2.06	1.67	---	121.36	245	118.9
XSECTION	34	ADDHYD	6.00	1.66	---	122.26	579	96.5
XSECTION	35	ADDHYD	10.84	1.66	---	122.01	1062	98.0
XSECTION	35	DIVERT	10.84	1.66	---	122.01	1062	98.0
XSECTION	199	DIVERT	.00	1.66	---	.00	0	********
XSECTION	45	REACH	10.84	1.66	2.32	122.01	1062	98.0
XSECTION	6	RUNOFF	1.47	1.68	---	121.27	179	121.8
XSECTION	60	REACH	1.47	1.67	2.78	122.40	181	123.1
XSECTION	67	REACH	1.47	1.67	1.83	122.40	181	123.1
XSECTION	64	ADDHYD	12.31	1.66	---	122.07	1233	100.2
XSECTION	5	RUNOFF	4.78	1.67	---	121.36	569	119.0
XSECTION	7	RUNOFF	3.48	1.68	---	121.49	403	115.8
XSECTION	75	ADDHYD	8.26	1.67	---	121.40	972	117.7
XSECTION	76	ADDHYD	20.57	1.67	---	121.69	2179	105.9
STRUCTURE	1	RESVOR	20.57	1.79	1208.85	138.84T	71T	3.5

SUMMARY TABLE 1

SELECTED RESULTS OF STANDARD AND EXECUTIVE CONTROL IN ORDER PERFORMED.
A CHARACTER FOLLOWING THE PEAK DISCHARGE TIME AND RATE (CFS) INDICATES:
F-FLAT TOP HYDROGRAPH T-TRUNCATED HYDROGRAPH R-RISING TRUNCATED HYDROGRAPH

XSECTION/ STRUCTURE ID	STANDARD CONTROL OPERATION	DRAINAGE AREA (SQ MI)	RUNOFF AMOUNT (IN)	PEAK DISCHARGE ELEVATION (FT)	TIME (HR)	RATE (CFS)	RATE (CSM)
ALTERNATE 2 STORM 1							
XSECTION 1	RUNOFF	2.46	1.68	---	121.40	290	117.9
XSECTION 5	REACH	2.46	1.62	2.23	122.55	283	115.0
XSECTION 10	REACH	2.46	1.66	3.72	123.70	277	112.6
XSECTION 2	RUNOFF	2.38	1.67	---	121.33	285	119.7
XSECTION 12	ADDHYD	4.84	1.67	---	121.80	488	100.8
XSECTION 12	DIVERT	4.84	1.67	---	121.80	488	100.8
XSECTION 200	DIVERT	.00	1.67	---	.00	0	********
XSECTION 20	REACH	4.84	1.67	2.45	121.80	488	100.8
XSECTION 25	REACH	4.84	1.67	1.54	121.80	488	100.8
XSECTION 3	RUNOFF	3.94	1.67	---	121.39	462	117.3
XSECTION 30	REACH	3.94	1.61	2.56	122.60	444	112.7
XSECTION 5	REACH	3.94	1.65	2.71	123.73	437	110.9
XSECTION 25	REACH	3.94	1.65	1.44	123.73	437	110.9
XSECTION 4	RUNOFF	2.06	1.67	---	121.36	245	118.9
XSECTION 34	ADDHYD	6.00	1.66	---	122.26	579	96.5
XSECTION 35	ADDHYD	10.84	1.66	---	122.01	1062	98.0
XSECTION 35	DIVERT	10.84	1.66	---	122.01	1062	98.0
XSECTION 199	DIVERT	.00	1.66	---	.00	0	********
XSECTION 45	REACH	10.84	1.66	2.32	122.01	1062	98.0
XSECTION 6	RUNOFF	1.47	1.68	---	121.27	179	121.8
XSECTION 60	REACH	1.47	1.67	2.78	122.40	181	123.1
XSECTION 67	REACH	1.47	1.67	1.83	122.40	181	123.1
XSECTION 64	ADDHYD	12.31	1.66	---	122.07	1233	100.2
XSECTION 5	RUNOFF	4.78	1.67	---	121.36	569	119.0
XSECTION 7	RUNOFF	3.48	1.68	---	121.49	403	115.8
XSECTION 75	ADDHYD	8.26	1.67	---	121.40	972	117.7
XSECTION 76	ADDHYD	20.57	1.67	---	121.69	2179	105.9

SUMMARY TABLE 1

SELECTED RESULTS OF STANDARD AND EXECUTIVE CONTROL IN ORDER PERFORMED.
A CHARACTER FOLLOWING THE PEAK DISCHARGE TIME AND RATE (CFS) INDICATES:
F-FLAT TOP HYDROGRAPH T-TRUNCATED HYDROGRAPH R-RISING TRUNCATED HYDROGRAPH

XSECTION/ STRUCTURE ID	STANDARD CONTROL OPERATION	DRAINAGE AREA (SQ MI)	RUNOFF AMOUNT (IN)	PEAK DISCHARGE ELEVATION (FT)	TIME (HR)	RATE (CFS)	RATE (CSM)
ALTERNATE 2 STORM 1							
STRUCTURE 1	RESVOR	20.57	1.79	1208.85	138.84T	71T	3.5

SUMMARY TABLE 2

MODIFIED ATT-KIN REACH ROUTING IN ORDER PERFORMED.
QUESTION MARK (?) AFTER: OUTFLOW PEAK - MAX. NUMBER ROUTING ITERATIONS USED;
LENGTH FACTOR - VALUE k* GREATER THAN 1.0;
ATT-KIN COEFF - VALUE C GREATER THAN 0.667.

			HYDROGRAPH INFORMATION				ROUTING PARAMETERS				
			INFLOW		OUTFLOW		Q-A EQ.				
XSEC ID	REACH LENGTH (FT)	FLOOD PLAIN LENGTH (FT)	PEAK (CFS)	TIME (HR)	PEAK (CFS)	TIME (HR)	COEFF (X)	POWER (M)	LENGTH FACTOR (k*)	PEAK RATIO Q/I (Q*)	ATT-KIN COEFF (C)
BASEFLOW IS .0 CFS											
ALTERNATE 1 STORM 1											
5	9100		284	121.8	280	122.8	.52	1.33	.053	.986	.81?
10	9100		280	122.8	276	123.9	.88	1.25	.057	.985	.83?
20	3332		488	121.8	488	121.8	.10	1.69	.002	1.000	1.00?
25	1950		488	121.8	488	121.8	.046	1.75	.001	1.000	1.00?
30	8865		451	121.8	441	122.8	.79	1.20	.075	.977	.73?
5	8865		441	122.8	436	123.9	.53	1.32	.045	.989	.87?
25	1950		436	123.9	436	123.9	.047	1.75	.002	1.000	1.00?
45	4200		1058	121.8	1058	121.8	.045	1.73	.003	1.000	1.00?
60	7540		175	120.8	174	122.8	1.40	1.12	.074	.992	.80?
67	5140		174	122.8	174	122.8	.53	1.32	.031	1.000	1.00?
ALTERNATE 2 STORM 1											
5	9100		284	121.8	280	122.8	.52	1.33	.053	.986	.81?
10	9100		280	122.8	276	123.9	.88	1.25	.057	.985	.83?
20	3332		488	121.8	488	121.8	.10	1.69	.002	1.000	1.00?
25	1950		488	121.8	488	121.8	.046	1.75	.001	1.000	1.00?
30	8865		451	121.8	441	122.8	.79	1.20	.075	.977	.73?
5	8865		441	122.8	436	123.9	.53	1.32	.045	.989	.87?
25	1950		436	123.9	436	123.9	.047	1.75	.002	1.000	1.00?
45	4200		1058	121.8	1058	121.8	.045	1.73	.003	1.000	1.00?
60	7540		175	120.8	174	122.8	1.40	1.12	.074	.992	.80?
67	5140		174	122.8	174	122.8	.53	1.32	.031	1.000	1.00?

SUMMARY TABLE 3

STORM DISCHARGES (CFS) AT XSECTIONS AND STRUCTURES FOR ALL ALTERNATES
QUESTION MARK (?) AFTER: OUTFLOW PEAK - RISING TRUNCATED HYDROGRAPH.

XSECTION/ STRUCTURE ID	DRAINAGE AREA (SQ MI)	STORM NUMBERS..... 1
STRUCTURE 1	20.57	
ALTERNATE 1		71
ALTERNATE 2		71
XSECTION 1	2.46	
ALTERNATE 1		290
ALTERNATE 2		290
XSECTION 2	2.38	
ALTERNATE 1		285
ALTERNATE 2		285
XSECTION 3	3.94	
ALTERNATE 1		462
ALTERNATE 2		462
XSECTION 4	2.06	
ALTERNATE 1		245
ALTERNATE 2		245
XSECTION 5	4.78	
ALTERNATE 1		569
ALTERNATE 2		569
XSECTION 6	1.47	
ALTERNATE 1		179
ALTERNATE 2		179
XSECTION 7	3.48	
ALTERNATE 1		403
ALTERNATE 2		403
XSECTION 10	2.46	
ALTERNATE 1		277
ALTERNATE 2		277
XSECTION 12	4.84	
ALTERNATE 1		488
ALTERNATE 2		488

SUMMARY TABLE 3

STORM DISCHARGES (CFS) AT XSECTIONS AND STRUCTURES FOR ALL ALTERNATES
QUESTION MARK (?) AFTER: OUTFLOW PEAK - RISING TRUNCATED HYDROGRAPH.

XSECTION/ STRUCTURE ID	DRAINAGE AREA (SQ MI)	STORM NUMBERS..... 1
XSECTION 20	4.84	
ALTERNATE 1		488
ALTERNATE 2		488
XSECTION 25	3.94	
ALTERNATE 1		437
ALTERNATE 2		437
XSECTION 30	3.94	
ALTERNATE 1		444
ALTERNATE 2		444
XSECTION 34	6.00	
ALTERNATE 1		579
ALTERNATE 2		579
XSECTION 35	10.84	
ALTERNATE 1		1062
ALTERNATE 2		1062
XSECTION 45	10.84	
ALTERNATE 1		1062
ALTERNATE 2		1062
XSECTION 60	1.47	
ALTERNATE 1		181
ALTERNATE 2		181
XSECTION 64	12.31	
ALTERNATE 1		1233
ALTERNATE 2		1233
XSECTION 67	1.47	
ALTERNATE 1		181
ALTERNATE 2		181
XSECTION 75	8.26	
ALTERNATE 1		972
ALTERNATE 2		972

SUMMARY TABLE 3

STORM DISCHARGES (CFS) AT XSECTIONS AND STRUCTURES FOR ALL ALTERNATES
QUESTION MARK (?) AFTER: OUTFLOW PEAK - RISING TRUNCATED HYDROGRAPH.

XSECTION/ STRUCTURE ID	DRAINAGE AREA (SQ MI)	STORM NUMBERS..... 1
XSECTION 76	20.57	
ALTERNATE 1		2179
ALTERNATE 2		2179
XSECTION 199	.00	
ALTERNATE 1		0
ALTERNATE 2		0
XSECTION 200	.00	
ALTERNATE 1		0
ALTERNATE 2		0

```
TR20 ------------------------------------------------------------------------ SCS -
WHTANK3       WHITE TANK FRS #3, WATERSHED DIVIDED INTO 7 SUB-BASINS      VERSION
09/07/**  100-YR 10-DAY RUNOFF & DIST IN TABLE 1, 100-YR SED IN RESVOIR 2.04TEST


END OF  1 JOBS IN THIS RUN


                    SCS  TR-20,  VERSION 2.04TEST
                          WHTANK3   FILES

     INPUT  = 2ND10D.DAT                                , GIVEN DATA FILE
     OUTPUT = 2NDOUT.OUT                                , DATED 09/07/**,16:13:43

              FILES GENERATED - DATED 09/07/**,16:13:43

    FILE 111.TRD CONTAINS READHD INFORMATION


          TOTAL NUMBER OF WARNINGS =  26,  MESSAGES =   8

                       JOB ENDED AT 16:13:43
                   *** TR-20 RUN COMPLETED ***
```

URS

CALCULATION PACKAGE NO. D-10

EXHIBIT 4.7-2

CALCULATION COVER SHEET

Client: Flood Control District of Maricopa County (FCDMC)

Project Name: White Tank FRS No. 3 Design

Project/Calculation Number: 23443748

Title: **RESERVOIR ROUTING OF AN EMERGENCY SPILLWAY HYDROGRAPH (ESH) FOR INTERIM CONDITION USING TR-20 MODEL**

Total Number of Pages (including cover sheet): _____

Total Number of Computer Runs: 1

Prepared by: Hammad Hussain Date: 09/07/04

Checked by: [signature] Date: 9/7/04

Description and Purpose:

See Page 2

Design Basis /Assumptions

See Page 2

Remarks/Conclusions/Results:

See Pages 4 and 5.

Calculation Approved by: Todd Ringsmuth 9/7/04
Project Manager/Date

Revision No.:	Description of Revision:	Approved by:

Project Manager/Date

RESERVOIR ROUTING OF AN EMERGENCY SPILLWAY HYDROGRAPH (ESH) FOR INTERIM CONDITION USING TR-20 MODEL

(WHITE TANK FLOOD RETARDING STRUCTURE (FRS) NO. 3)
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY (FCDMC)
23443748

PROBLEM STATEMENT

The aim of this calculation package is to perform the reservoir routing of an Emergency Spillway Hydrograph (ESH) for the interim condition through the White Tank FRS No. 3 reservoir and to determine the peak outflow and corresponding water surface elevation.

DESIGN BASIS/ASSUMPTIONS/REFERENCES

INTERIM CONDITION

The Interim Condition represents the time period following construction of the facilities included in the Remediation Project and the installation of the downstream conveyance channel. Since this time period is anticipated to be short (less than 10 years), it is assumed that no additional sediment has accumulated in the reservoir. The principal spillway is closed and does not convey flow out of the reservoir. Under this condition the only outflow from the reservoir occurs through infiltration and flow through the emergency spillway. The detailed calculations involved in estimating the infiltration rates for the Interim condition are provided in a separate calculation package.

Given that the Interim Condition was assumed a short period following construction of the dam and prior to construction of a dedicated downstream conveyance, the routing for the Interim Condition was performed based on the current topographic condition in the reservoir (i.e., no additional sediment). Therefore, the Antecedent Reservoir Condition (ARC) for the reservoir routing under the interim condition is the invert elevation of the proposed gated outlet or at elevation 1193.0 ft (NAVD 88).

EMERGENCY SPILLWAY HYDROGRAPH

URS was provided by Flood District the electronic version of TR-20 hydrologic model of an Emergency Spillway Hydrograph (ESH). This model was developed by Natural Resources Conservation Services (NRCS) and documented in a report titled as "*Hydrologic Analysis of the White Tank Mountains on Flood Retarding Structure # 3*" (NRCS, August 1998). The ESH hydrograph was based on a hyetograph that was combination of the 100-year, 6-hour and 6-hour Local PMP. It was based on the following relationship as described on page 10 of NRCS 1998 report:

ESH = (100-yr 6-hr Precipitation)+ [0.26* (6-hr Local PMP – 100-yr 6-hr)]

ESH = (2.69) + [0.26*(12.7-2.69)]

ESH = 5.29 inches

The existing ESH model provided by NRCS was updated for future conditions by incorporating new curve numbers in anticipation of future urban growth. A new elevation-storage curve for the White Tank FRS No. 3 was developed using the 2003 topographic map in combination with the modified 1998 topographic map, both of which were provided by the District. The new elevation-storage curve was based on 500 ac-ft of sediment storage for the 100-year sediment pool level. The infiltration rates were also estimated based on 500 ac-ft of sediment storage. An elevation-spillway rating curve for the White Tank FRS No. 3 emergency spillway was also developed. The procedure and calculations involved in establishing new curve numbers, new elevation-spillway discharge rating curve, new infiltration numbers and new elevation-storage curve are provided in separate calculation packages.

Please also note that the URS's modifications to the NRCS's existing ESH model is consisted of revising the runoff curve numbers only and incorporating new elevation-spillway discharge curve and new elevation-storage curve. URS did not modify the lag times (times of concentrations) as well as antecedent moisture condition (AMC) for developed areas due to unknowns involved. In addition, URS used the same rainfall amount as well as the rainfall distribution used by NRCS for ESH hydrograph routing.

DIVERSIONS

The TR-20 models developed by NRCS included two diversions from the watershed. The diversions occur along the eastern edge of the watershed at Olive Avenue and Northern Avenue where a stormwater channel is restricted by culverts at the road crossings. The effect of the diversions is to reduce the peak flow and volume reaching the reservoir from the northern half of the watershed. In general, 100-year, 24-hour flows are allowed the reach the reservoir, but flows exceeding the restrictions are diverted out of the watershed.

At Olive Avenue, flows greater than 4,100 cfs are diverted out of the watershed. At Northern Avenue, flows greater than 11,000 cfs are diverted out of the watershed. The base hydraulic calculations for these diversion estimates were not presented in the NRCS hydrologic report (NRCS 1998), nor were the flows out of the reservoir watershed quantified.

RESULTS

URS routed the updated ESH hydrograph through the White Tank reservoir using the TR-20 model for the interim condition starting at 1193.0 ft (NAVD). The reservoir routing results indicated that the White Tank FRS No.3 reservoir could not hold the ESH below the emergency spillway under interim condition. Reservoir routing results i.e. peak inflow, peak outflow, antecedent reservoir condition (ARC) and reservoir stage for ESH hydrograph are provided in Table 1 on Page 4. The input file and the detailed output results for ESH hydrograph routing under interim condition are attached with this calculation package.

TABLE 1
RESERVOIR ROUTING RESULTS FOR EMERGENCY SPILLWAY HYDROGRAPH
(INTERIM CONDITON)

Storm Event	Inflow to White Tank FRS No.3		Outflow from White Tank FRS No.3		
	Precipitation (inches)	Peak Inflow (cfs)	Antecedent Reservoir Condition (ARC)	Peak Outflow[1] (cfs)	Maximum Reservoir Elevation (NAVD 88) (ft)
ESH	5.29	23,556	1193.0	2,106	1212.8

```
******************80-80 LIST OF INPUT DATA FOR TR-20 HYDROLOGY******************

JOB TR-20 WT3ESH    ECON                PASS=001  SUMMARY
TITLE     WHITE TANK FRS #3, WATERSHED DIVIDED INTO 7 SUB-BASINS
TITLE     ESH HYDROGRAPH, 100-YR SEDIMENT
 5 RAINFL 1     1       2.4                                                10-DAY
 8          .0000       .0024       .0048       .0073       .0097
 8          .0121       .0148       .0174       .0201       .0228
 8          .0254       .0284       .0314       .0344       .0374
 8          .0404       .0437       .0471       .0505       .0539
 8          .0572       .0612       .0651       .0690       .0729
 8          .0768       .0815       .0862       .0909       .0955
 8          .1002       .1061       .1120       .1179       .1238
 8          .1297       .1377       .1458       .1538       .1618
 8          .1699       .1832       .1966       .2099       .2232
 8          .2366       .2548       .2778       .3093       .3614
 8          1.092       1.174       1.213       1.240       1.260
 8          1.276       1.286       1.296       1.306       1.316
 8          1.326       1.333       1.340       1.347       1.354
 8          1.360       1.365       1.371       1.376       1.381
 8          1.386       1.391       1.395       1.399       1.403
 8          1.408       1.411       1.415       1.418       1.422
 8          1.426       1.429       1.432       1.435       1.438
 8          1.442       1.444       1.447       1.450       1.453
 8          1.456       1.458       1.461       1.463       1.466
 8          1.468       1.471       1.473       1.475       1.477
 8          1.48        1.48        1.48        1.48        1.48
 9 ENDTBL
 5 RAINFL 2             0.1                                                6HRLOCAL
 8          .0000       .003        .006        .009        .013
 8          .016        .020        .025        .030        .035
 8          .039        .046        .052        .058        .065
 8          .071        .080        .090        .099        .109
 8          .118        .283        .449        .567        .622
 8          .669        .701        .732        .756        .780
 8          .795        .809        .824        .838        .852
 8          .866        .876        .885        .894        .904
 8          .913        .920        .926        .932        .939
 8          .945        .950        .954        .959        .964
 8          .969        .972        .976        .980        .984
 8          .988        .991        .993        .995        .998
 8          1.          1.          1.          1.          1.
 9 ENDTBL
 5 RAINFL 3             .1                                                 6HR GEN
 8          .000        .005        .013        .020        .028
 8          .038        .045        .053        .060        .070
 8          .080        .085        .095        .108        .120
 8          .138        .150        .165        .190        .210
 8          .238        .280        .350        .440        .550
 8          .590        .620        .645        .668        .685
 8          .700        .720        .735        .753        .765
 8          .775        .790        .800        .810        .820
 8          .835        .843        .850        .863        .870
 8          .880        .890        .898        .908        .915
 8          .925        .930        .940        .945        .955
 8          .963        .970        .978        .985        .990
 8          1.00        1.00        1.00        1.00        1.00
 9 ENDTBL
```

```
4 DIMHYD                .0556                                           WT3
8          0.0          .03          .10          .19          .31
8          .47          .66          .82          .93          .99
8          1.0          .99          .93          .82          .66
8          .47          .31          .03          .00          .00
9 ENDTBL
2 XSECTN   005          1.0          8.77                              BOSSCS#5
8                       0.           0.0          0.0
8                       0.35         5.           5.56
8                       1.03         50.          30.95
8                       1.39         100.         52.16
8                       1.94         200.         88.72
8                       2.63         400.         148.61
8                       3.51         800.         260.63
8                       4.62         1600.        459.66
8                       6.04         3200.        929.36
8                       7.38         6400.        1811.51
8                       8.77         12800.       3374.20
8                       10.17        25600.       6398.87
8                       11.89        51200.       10982.51
9 ENDTBL
2 XSECTN   010          1.0          10.41                             BOSSCS#4
8                       0.           0.0          0.0
8                       0.86         5.           4.39
8                       2.01         50.          24.22
8                       2.58         100.         40.12
8                       3.46         200.         80.99
8                       4.14         400.         129.44
8                       5.16         800.         214.74
8                       6.39         1600.        441.84
8                       7.80         3200.        980.75
8                       9.16         6400.        1891.44
8                       10.41        12800.       3516.14
8                       11.75        25600.       6548.98
8                       13.26        51200.       11081.19
9 ENDTBL
2 XSECTN   020          1.0          7.3                               REACHC
8                       0.           0.0          0.0
8                       1.01         100.         57.78
8                       1.49         200.         86.81
8                       1.88         300.         110.25
8                       2.49         500.         149.47
8                       3.68         1000.        226.31
8                       5.40         2000.        346.26
8                       7.85         4000.        533.39
8                       9.64         6000.        688.07
8                       11.16        8000.        838.10
8                       12.46        10000.       985.31
8                       13.61        12000.       1122.03
8                       14.56        14000.       1236.94
8                       15.43        16000.       1345.18
8                       16.31        18000.       1456.68
9 ENDTBL
2 XSECTN   025          1.0          7.3                               REACHB
8                       0.           0.0          0.0
8                       0.63         100.         80.89
```

```
8                       0.93        200.        120.32
8                       1.17        300.        151.77
8                       1.56        500.        203.28
8                       2.30        1000.       302.00
8                       3.38        2000.       449.24
8                       4.97        4000.       673.73
8                       6.23        6000.       855.96
8                       7.31        8000.       1016.35
8                       8.24        10000.      1158.51
8                       9.09        12000.      1293.31
8                       9.90        14000.      1425.57
8                       10.64       16000.      1549.17
8                       11.36       18000.      1673.11
9 ENDTBL
2 XSECTN    030         1.0         9.45                                BOSSCS#6
8                       0.          0.0         0.0
8                       0.77        5.          4.67
8                       1.54        50.         32.06
8                       1.78        100.        56.64
8                       2.10        200.        100.59
8                       2.50        400.        179.97
8                       3.01        800.        320.25
8                       3.63        1600.       589.66
8                       4.35        3200.       1110.72
8                       5.21        6400.       2084.48
8                       6.03        12800.      4119.83
8                       6.99        25600.      6856.75
8                       8.28        51200.      11085.87
9 ENDTBL
2 XSECTN    045         1.0         4.87                                REACHA
8                       0.          0.0         0.0
8                       0.60        100.        85.69
8                       0.90        200.        127.94
8                       1.13        300.        161.93
8                       1.52        500.        217.27
8                       2.25        1000.       324.03
8                       3.31        2000.       483.02
8                       4.87        4000.       722.17
8                       6.09        6000.       914.99
8                       7.15        8000.       1084.61
8                       8.05        10000.      1234.17
8                       8.87        12000.      1373.80
8                       9.64        14000.      1507.84
8                       10.34       16000.      1633.45
8                       11.00       18000.      1753.12
9 ENDTBL
2 XSECTN    060         1.0         4.7                                 2CP6CP7
8                       0.          0.0         0.0
8                       2.36        100.        45.12
8                       2.88        200.        83.75
8                       3.18        300.        114.33
8                       3.64        500.        172.72
8                       4.42        1000.       289.04
8                       5.40        2000.       470.72
8                       6.87        4000.       782.74
8                       7.91        6000.       1020.12
```

```
8                       8.79        8000.       1231.25
8                       9.60        10000.      1435.05
8                       10.26       12000.      1618.34
8                       10.94       14000.      1812.58
8                       11.47       16000.      1983.46
8                       11.96       18000.      2150.12
9 ENDTBL
2 XSECTN   067          1.0         8.77                                BOSSCS#5
8                       0.          0.0         0.0
8                       0.35        5.          5.56
8                       1.03        50.         30.95
8                       1.39        100.        52.16
8                       1.94        200.        88.72
8                       2.63        400.        148.61
8                       3.51        800.        260.63
8                       4.62        1600.       459.66
8                       6.04        3200.       929.36
8                       7.38        6400.       1811.51
8                       8.77        12800.      3374.20
8                       10.17       25600.      6398.87
8                       11.89       51200.      10982.51
9 ENDTBL
3 STRUCT      01                                                        95/11/6
8                       1178.0      0.00        0.0
8                       1188.0      2.71        44.8
8                       1193.0      7.29        129.0
8                       1199.2      26.75       500.0
8                       1202.0      38.68       845.55
8                       1204.0      48.00       1176.28
8                       1206.0      56.80       1575.25
8                       1208.0      66.40       2044.97
8                       1210.0      77.10       2593.40
8                       1212.0      85.95       3218.00
8                       1213.0      2685.00     3556.67
8                       1214.0      8231.00     3916.02
8                       1215.0      15545.0     4294.13
8                       1216.0      24272.0     4692.68
8                       1217.0      34212.0     5113.19
8                       1218.0      45232.0     5556.01
8                       1219.0      57233.0     6021.50
8                       1220.0      70142.0     6509.75
9 ENDTBL
6 RUNOFF 1 001        1 2.46        87.2        0.85        1 1
6 REACH  3 005   1    7 9100.                               1           BOSS#6
6 REACH  3 010   7    2 9100.                               1           BOSS#4
6 RUNOFF 1 002        3 2.38        79.9        0.73        1 1
6 ADDHYD 4 012   2 3 1                                       1 1
6 DIVERT 6 012   1 4  7 4100.       1.00        200.        1 1         OLIVE
6 REACH  3 020   4    7 3332.                               1           REACH C
6 REACH  3 025   7    5 1950.                               1           REACH B
6 RUNOFF 1 003        6 3.94        87.2        0.88        1 1
6 REACH  3 030   6    7 8865.                               1           BOSS#6
6 REACH  3 005   7    1 8865.                               1           BOSS#5
6 REACH  3 025   1    7 1950.                               1           REACH B
6 RUNOFF 1 004        1 2.06        77.3        0.79        1 1
6 ADDHYD 4 034   7 1 2                                       1 1
```

```
**********************80-80 LIST OF INPUT DATA (CONTINUED)**********************

 6 ADDHYD 4 035   5 2 3                                    1 1
 6 DIVERT 6 035   3 4 7 11000.      1.00        199.       1 1          NORTHERN
 6 REACH  3 045   4   5 4200.                              1            REACH A
 6 RUNOFF 1 006       2 1.47        87.7        0.47       1 1
 6 REACH  3 060   2   3 7540.                              1            CP6CP7
 6 REACH  3 067   3   4 5140.                              1            BOSS#5
 6 ADDHYD 4 064   5 4 3                                    1 1
 6 RUNOFF 1 005       6 4.78        78.8        0.78       1 1
 6 RUNOFF 1 007       7 3.48        81.7        1.01       1 1
 6 ADDHYD 4 075   6 7 1                                    1 1
 6 ADDHYD 4 076   1 3 2                                    1 1     1
 6 RESVOR 2    01 2   1 1193.0                             1 1     1
 ENDATA
 7 LIST                 1.0                     1.
 7 INCREM 6             0.05
 7 COMPUT 7 001      01 0.          5.29        1.0        2 2  01  01
   ENDCMP 1
   ENDJOB 2

*********************************END OF 80-80 LIST*******************************
```

RUNOFF OPTION USED WITH RAINTABLE NO. 1, RUNOFF CURVE NO. = 100.

COMPUTED DIMHYD PEAK RATE FACTOR = 664.607

```
EXECUTIVE CONTROL  LIST ,          1.          0.          1.

          LISTING OF CURRENT DATA


                      COMPUTED TIME INCREMENT
DIMHYD                          .0556

                   .0000       .0300       .1000       .1900       .3100
                   .4700       .6600       .8200       .9300       .9900
                  1.0000       .9900       .9300       .8200       .6600
                   .4700       .3100       .0300       .0000       .0000
ENDTBL

   COMPUTED PEAK RATE FACTOR =  664.607
```

TABLE NO.	TIME INCREMENT
RAINFL 1	2.4000

.0000	.0024	.0048	.0073	.0097
.0121	.0148	.0174	.0201	.0228
.0254	.0284	.0314	.0344	.0374
.0404	.0437	.0471	.0505	.0539
.0572	.0612	.0651	.0690	.0729
.0768	.0815	.0862	.0909	.0955
.1002	.1061	.1120	.1179	.1238
.1297	.1377	.1458	.1538	.1618
.1699	.1832	.1966	.2099	.2232
.2366	.2548	.2778	.3093	.3614
1.0920	1.1740	1.2130	1.2400	1.2600
1.2760	1.2860	1.2960	1.3060	1.3160
1.3260	1.3330	1.3400	1.3470	1.3540
1.3600	1.3650	1.3710	1.3760	1.3810
1.3860	1.3910	1.3950	1.3990	1.4030
1.4080	1.4110	1.4150	1.4180	1.4220
1.4260	1.4290	1.4320	1.4350	1.4380
1.4420	1.4440	1.4470	1.4500	1.4530
1.4560	1.4580	1.4610	1.4630	1.4660
1.4680	1.4710	1.4730	1.4750	1.4770
1.4800	1.4800	1.4800	1.4800	1.4800

ENDTBL

STANDARD CONTROL INSTRUCTIONS

```
RUNOFF      1       1      2.4600     87.2000      .85001 1 0 0 0 1
REACH       5   1   7   9100.0000       .0000      .00001 0 0 0 0 1
REACH      10   7   2   9100.0000       .0000      .00001 0 0 0 0 1
RUNOFF      2       3      2.3800     79.9000      .73001 1 0 0 0 1
ADDHYD     12   2 3 1                                   1 1 0 0 0 1
DIVERT     12   1 4 7   4100.0000      1.0000   200.00001 1 0 0 0 1
REACH      20   4   7   3332.0000       .0000      .00001 0 0 0 0 1
REACH      25   7   5   1950.0000       .0000      .00001 0 0 0 0 1
RUNOFF      3       6      3.9400     87.2000      .88001 1 0 0 0 1
REACH      30   6   7   8865.0000       .0000      .00001 0 0 0 0 1
REACH       5   7   1   8865.0000       .0000      .00001 0 0 0 0 1
REACH      25   1   7   1950.0000       .0000      .00001 0 0 0 0 1
RUNOFF      4       1      2.0600     77.3000      .79001 1 0 0 0 1
ADDHYD     34   7 1 2                                   1 1 0 0 0 1
ADDHYD     35   5 2 3                                   1 1 0 0 0 1
DIVERT     35   3 4 7  11000.0000      1.0000   199.00001 1 0 0 0 1
REACH      45   4   5   4200.0000       .0000      .00001 0 0 0 0 1
RUNOFF      6       2      1.4700     87.7000      .47001 1 0 0 0 1
REACH      60   2   3   7540.0000       .0000      .00001 0 0 0 0 1
REACH      67   3   4   5140.0000       .0000      .00001 0 0 0 0 1
ADDHYD     64   5 4 3                                   1 1 0 0 0 1
RUNOFF      5       6      4.7800     78.8000      .78001 1 0 0 0 1
RUNOFF      7       7      3.4800     81.7000     1.01001 1 0 0 0 1
ADDHYD     75   6 7 1                                   1 1 0 0 0 1
ADDHYD     76   1 3 2                                   1 1 0 0 1 1
RESVOR        1 2   1   1193.0000                       1 1 0 0 1 1
ENDATA
```

END OF LISTING

EXECUTIVE CONTROL INCREM MAIN TIME INCREMENT = .050 HOURS

EXECUTIVE CONTROL COMPUT FROM XSECTION 1 TO STRUCTURE 1
STARTING TIME = .00 RAIN DEPTH = 5.29 RAIN DURATION = 1.00
ANT. RUNOFF COND. = 2 MAIN TIME INCREMENT = .050 HOURS
ALTERNATE NO. = 1 STORM NO. = 1 RAIN TABLE NO. = 2

OPERATION RUNOFF XSECTION 1

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
2.73	6068.9	(RUNOFF)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 1
MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = 2.46 SQ.MI.

HRS								
1.40 CFS	.38	.90	1.80	3.34	5.79	9.44	14.57	21.39
1.80 CFS	30	41	54	68	89	133	220	376
2.20 CFS	625	989	1482	2095	2794	3532	4250	4896
2.60 CFS	5428	5813	6029	6057	5897	5550	5028	4418
3.00 CFS	3813	3267	2823	2479	2223	2026	1855	1705
3.40 CFS	1580	1474	1380	1298	1230	1176	1129	1090
3.80 CFS	1059	1030	997	962	925	888	852	817
4.20 CFS	783	751	720	693	669	647	624	602
4.60 CFS	579	556	533	512	493	476	462	449
5.00 CFS	437	425	413	401	389	377	367	359
5.40 CFS	352	345	340	334	327	319	311	304
5.80 CFS	296	288	279	269	258	244	230	215
6.20 CFS	200	183	165	147	129	111	93	76
6.60 CFS	58.82	42.28	27.32	15.12	6.80	2.04	.17	

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
3.86 WATERSHED INCHES; 6135 CFS-HRS; 507.0 ACRE-FEET.

OPERATION REACH XSECTION 5

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
3.43	3247.9	6.06

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
3.86 WATERSHED INCHES; 6135 CFS-HRS; 507.0 ACRE-FEET.

OPERATION REACH XSECTION 10

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
4.17	2219.6	6.94

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
3.86 WATERSHED INCHES; 6135 CFS-HRS; 507.0 ACRE-FEET.

OPERATION RUNOFF XSECTION 2

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
2.67	4870.2	(RUNOFF)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 1
MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = 2.38 SQ.MI.

HRS								
1.85 CFS	0	1	2	6	29	91	221	448
2.25 CFS	797	1277	1868	2526	3192	3807	4315	4673
2.65 CFS	4852	4840	4630	4251	3777	3278	2827	2462
3.05 CFS	2183	1978	1811	1661	1529	1415	1313	1223
3.45 CFS	1147	1086	1038	1000	974	955	933	906
3.85 CFS	874	838	802	767	733	702	675	650
4.25 CFS	629	610	591	570	548	524	502	481
4.65 CFS	462	446	433	421	410	398	385	373
5.05 CFS	361	350	341	333	327	321	314	308
5.45 CFS	301	294	287	281	276	271	267	261
5.85 CFS	252	240	227	213	200	187	173	159
6.25 CFS	144	129	112	95	77	59	41	25
6.65 CFS	12.65	4.83	1.01	.08				

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
3.14 WATERSHED INCHES; 4819 CFS-HRS; 398.3 ACRE-FEET.

OPERATION ADDHYD XSECTION 12

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
2.67	4885.5	(NULL)
3.93	2955.2	(NULL)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 1
MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = 4.84 SQ.MI.

HRS								
1.85 CFS	0	1	2	6	29	92	221	448
2.25 CFS	798	1278	1869	2528	3195	3811	4321	4681
2.65 CFS	4865	4859	4660	4297	3847	3383	2979	2675
3.05 CFS	2472	2359	2297	2267	2265	2289	2330	2383
3.45 CFS	2447	2520	2596	2672	2749	2820	2877	2918
3.85 CFS	2943	2954	2955	2948	2934	2916	2894	2869
4.25 CFS	2841	2811	2777	2736	2691	2642	2591	2540
4.65 CFS	2489	2439	2389	2340	2290	2239	2187	2135
5.05 CFS	2082	2030	1980	1932	1885	1839	1792	1746
5.45 CFS	1700	1654	1609	1566	1524	1484	1444	1403
5.85 CFS	1361	1316	1270	1226	1182	1139	1097	1055
6.25 CFS	1014	972	930	889	847	805	765	727
6.65 CFS	693	665	640	620	600	581	562	543
7.05 CFS	524	506	488	470	452	435	417	400
7.45 CFS	383	367	351	336	320	306	292	278

7.85 CFS	265	252	240	228	217	206	195	185
8.25 CFS	176	167	158	150	142	134	127	120
8.65 CFS	114	108	102	96	91	86	81	76
9.05 CFS	72.20	68.13	64.28	60.63	57.17	53.90	50.81	47.88
9.45 CFS	45.12	42.50	40.03	37.70	35.50	33.42	31.45	29.60
9.85 CFS	27.85	26.21	24.65	23.19	21.80	20.50	19.27	18.12
10.25 CFS	17.03	16.00	15.04	14.13	13.27	12.47	11.71	11.00
10.65 CFS	10.33	9.70	9.10	8.55	8.02	7.53	7.06	6.63
11.05 CFS	6.22	5.83	5.47	5.13	4.81	4.51	4.23	3.97
11.45 CFS	3.72	3.49	3.27	3.06	2.87	2.69	2.52	2.36
11.85 CFS	2.21	2.07	1.94	1.82	1.70	1.60	1.49	1.40
12.25 CFS	1.31	1.23	1.15	1.07	1.00	.94	.88	.82
12.65 CFS	.77	.72	.67	.63	.58	.55	.51	.48

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
3.51 WATERSHED INCHES; 10955 CFS-HRS; 905.3 ACRE-FEET.

OPERATION DIVERT XSECTION 12
OUTPUT #1 HYDROGRAPH

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
2.55	4100.0 *	(DIVERT)
3.93	2955.2	(DIVERT)

* FIRST POINT OF FLAT PEAK

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 1
MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = 4.84 SQ.MI.

HRS								
1.85 CFS	0	1	2	6	29	92	221	448
2.25 CFS	798	1278	1869	2528	3195	3811	4100	4100
2.65 CFS	4100	4100	4100	4100	3847	3383	2979	2675
3.05 CFS	2472	2359	2297	2267	2265	2289	2330	2383
3.45 CFS	2447	2520	2596	2672	2749	2820	2877	2918
3.85 CFS	2943	2954	2955	2948	2934	2916	2894	2869
4.25 CFS	2841	2811	2777	2736	2691	2642	2591	2540
4.65 CFS	2489	2439	2389	2340	2290	2239	2187	2135
5.05 CFS	2082	2030	1980	1932	1885	1839	1792	1746
5.45 CFS	1700	1654	1609	1566	1524	1484	1444	1403
5.85 CFS	1361	1316	1270	1226	1182	1139	1097	1055
6.25 CFS	1014	972	930	889	847	805	765	727
6.65 CFS	693	665	640	620	600	581	562	543
7.05 CFS	524	506	488	470	452	435	417	400
7.45 CFS	383	367	351	336	320	306	292	278
7.85 CFS	265	252	240	228	217	206	195	185
8.25 CFS	176	167	158	150	142	134	127	120
8.65 CFS	114	108	102	96	91	86	81	76
9.05 CFS	72.20	68.13	64.28	60.63	57.17	53.90	50.81	47.88
9.45 CFS	45.12	42.50	40.03	37.70	35.50	33.42	31.45	29.60
9.85 CFS	27.85	26.21	24.65	23.19	21.80	20.50	19.27	18.12
10.25 CFS	17.03	16.00	15.04	14.13	13.27	12.47	11.71	11.00

10.65 CFS	10.33	9.70	9.10	8.55	8.02	7.53	7.06	6.63
11.05 CFS	6.22	5.83	5.47	5.13	4.81	4.51	4.23	3.97
11.45 CFS	3.72	3.49	3.27	3.06	2.87	2.69	2.52	2.36
11.85 CFS	2.21	2.07	1.94	1.82	1.70	1.60	1.49	1.40
12.25 CFS	1.31	1.23	1.15	1.07	1.00	.94	.88	.82
12.65 CFS	.77	.72	.67	.63	.58	.55	.51	.48

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
3.46 WATERSHED INCHES; 10800 CFS-HRS; 892.5 ACRE-FEET.

OUTPUT #2 DIVERTED HYDROGRAPH (XSECTION 200)

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
2.67	785.5	(DIVERT)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 1
MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = .00 SQ.MI.

HRS							
2.50 CFS	.00	221.36	581.09	764.64	758.73	559.77	197.17	.00

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
154 CFS-HRS; 12.8 ACRE-FEET.

OPERATION REACH XSECTION 20

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
2.83	4096.1	7.94
4.04	2944.7	6.56

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
3.46 WATERSHED INCHES; 10800 CFS-HRS; 892.6 ACRE-FEET.

OPERATION REACH XSECTION 25

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
2.89	4072.1	5.02
4.12	2940.8	4.13

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
3.46 WATERSHED INCHES; 10800 CFS-HRS; 892.5 ACRE-FEET.

OPERATION RUNOFF XSECTION 3

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
2.75	9534.2	(RUNOFF)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 1
MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = 3.94 SQ.MI.

HRS								
1.35 CFS	.17	.54	1.29	2.58	4.79	8.33	13.66	21.20
1.75 CFS	31	44	60	80	102	129	189	316

2.15 CFS	543	907	1438	2165	3078	4133	5262	6382
2.55 CFS	7406	8277	8942	9371	9533	9411	9018	8352
2.95 CFS	7462	6517	5606	4823	4199	3718	3366	3077
3.35 CFS	2824	2608	2430	2274	2136	2018	1922	1841
3.75 CFS	1771	1712	1662	1613	1559	1503	1444	1386
4.15 CFS	1330	1276	1223	1172	1125	1083	1047	1012
4.55 CFS	977	941	905	869	834	801	772	747
4.95 CFS	726	706	688	669	650	631	612	594
5.35 CFS	579	567	556	547	538	528	516	503
5.75 CFS	491	478	464	450	435	418	398	377
6.15 CFS	353	328	302	274	244	215	187	159
6.55 CFS	132	105	79	55	34	18	7	2
6.95 CFS	.15							

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
3.86 WATERSHED INCHES; 9821 CFS-HRS; 811.6 ACRE-FEET.

OPERATION REACH XSECTION 30

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
3.52	4905.6	4.81

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
3.86 WATERSHED INCHES; 9821 CFS-HRS; 811.6 ACRE-FEET.

OPERATION REACH XSECTION 5

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
4.20	3529.7	6.18

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
3.86 WATERSHED INCHES; 9821 CFS-HRS; 811.6 ACRE-FEET.

OPERATION REACH XSECTION 25

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
4.28	3524.8	4.59

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
3.86 WATERSHED INCHES; 9821 CFS-HRS; 811.6 ACRE-FEET.

OPERATION RUNOFF XSECTION 4

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
2.73	3682.2	(RUNOFF)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 1
MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = 2.06 SQ.MI.

HRS								
2.00 CFS	0	9	39	106	232	434	727	1107
2.40 CFS	1556	2039	2512	2941	3286	3533	3665	3669
2.80 CFS	3550	3281	2962	2585	2243	1967	1739	1589
3.20 CFS	1456	1339	1232	1146	1069	1000	940	894
3.60 CFS	855	824	799	783	764	741	715	687
4.00 CFS	658	631	605	580	558	536	517	501
4.40 CFS	485	468	451	433	415	398	383	369
4.80 CFS	357	347	338	328	319	310	301	291
5.20 CFS	283	276	270	265	260	256	251	245
5.60 CFS	240	234	230	225	219	214	207	197
6.00 CFS	186	176	165	153	141	129	115	102
6.40 CFS	88.30	74.72	60.71	46.48	32.85	20.33	10.56	4.37
6.80 CFS	.83	.05						

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
2.89 WATERSHED INCHES; 3849 CFS-HRS; 318.0 ACRE-FEET.

OPERATION ADDHYD XSECTION 34

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
2.73	3701.1	(NULL)
4.17	4072.2	(NULL)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 1
MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = 6.00 SQ.MI.

HRS								
2.00 CFS	0	9	39	106	232	434	728	1108
2.40 CFS	1558	2041	2516	2946	3293	3543	3680	3692
2.80 CFS	3585	3336	3046	2710	2428	2229	2100	2073
3.20 CFS	2085	2135	2214	2331	2468	2620	2782	2954
3.60 CFS	3124	3287	3441	3587	3712	3815	3898	3961
4.00 CFS	4009	4042	4063	4071	4070	4060	4041	4017
4.40 CFS	3985	3945	3899	3846	3789	3728	3665	3601
4.80 CFS	3535	3469	3401	3332	3262	3190	3118	3044
5.20 CFS	2972	2901	2831	2761	2693	2625	2557	2489
5.60 CFS	2422	2357	2292	2229	2167	2105	2043	1980
6.00 CFS	1917	1855	1794	1734	1675	1617	1559	1503
6.40 CFS	1447	1393	1340	1287	1237	1188	1143	1103
6.80 CFS	1066	1032	1000	968	937	907	877	847
7.20 CFS	817	788	759	731	703	675	648	621
7.60 CFS	595	569	544	520	496	474	452	430
8.00 CFS	410	390	371	353	335	319	303	287
8.40 CFS	273	258	245	232	220	208	197	187
8.80 CFS	177	167	158	149	141	133	126	119
9.20 CFS	112	106	100	95	89	84	79	75
9.60 CFS	70.57	66.52	62.69	59.08	55.66	52.43	49.38	46.50
10.00 CFS	43.78	41.22	38.80	36.52	34.37	32.34	30.42	28.62
10.40 CFS	26.92	25.32	23.81	22.39	21.05	19.79	18.60	17.48
10.80 CFS	16.43	15.44	14.50	13.63	12.80	12.02	11.29	10.61
11.20 CFS	9.96	9.35	8.78	8.24	7.74	7.26	6.82	6.40

11.60 CFS	6.01	5.64	5.29	4.96	4.65	4.36	4.09	3.84
12.00 CFS	3.60	3.38	3.17	2.97	2.78	2.61	2.45	2.29
12.40 CFS	2.15	2.02	1.89	1.77	1.66	1.55	1.46	1.36
12.80 CFS	1.28	1.20	1.12	1.05	.98	.92	.86	.81
13.20 CFS	.75	.71	.66	.62	.58	.54	.50	.47

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
3.53 WATERSHED INCHES; 13670 CFS-HRS; 1129.6 ACRE-FEET.

OPERATION ADDHYD XSECTION 35

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
2.77	7598.9	(NULL)
4.15	7011.1	(NULL)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 1
MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = 10.84 SQ.MI.

HRS								
2.00 CFS	0	10	42	117	271	536	953	1540
2.40 CFS	2300	3202	4192	5205	6156	6913	7375	7575
2.80 CFS	7572	7377	7116	6713	6218	5720	5275	4964
3.20 CFS	4754	4644	4617	4670	4780	4933	5118	5330
3.60 CFS	5553	5780	6003	6221	6419	6590	6731	6840
4.00 CFS	6920	6973	7002	7011	7002	6978	6941	6895
4.40 CFS	6837	6769	6689	6598	6499	6393	6281	6167
4.80 CFS	6051	5936	5818	5699	5579	5456	5332	5207
5.20 CFS	5083	4961	4840	4722	4605	4490	4376	4261
5.60 CFS	4148	4037	3927	3821	3715	3612	3509	3404
6.00 CFS	3299	3193	3089	2985	2882	2781	2680	2582
6.40 CFS	2484	2388	2293	2199	2106	2016	1931	1853
6.80 CFS	1782	1718	1659	1603	1551	1499	1450	1401
7.20 CFS	1352	1305	1257	1211	1165	1119	1075	1031
7.60 CFS	988	945	904	864	826	788	752	716
8.00 CFS	682	650	618	588	559	531	504	479
8.40 CFS	454	431	408	387	367	347	329	311
8.80 CFS	295	279	263	249	235	222	210	198
9.20 CFS	187	177	167	157	149	140	132	125
9.60 CFS	117	111	104	98	93	87	82	77
10.00 CFS	72.74	68.46	64.43	60.63	57.04	53.66	50.47	47.47
10.40 CFS	44.64	41.97	39.46	37.09	34.86	32.76	30.79	28.93
10.80 CFS	27.18	25.53	23.98	22.52	21.15	19.86	18.65	17.51
11.20 CFS	16.44	15.43	14.48	13.59	12.75	11.97	11.23	10.53
11.60 CFS	9.88	9.27	8.69	8.15	7.65	7.17	6.72	6.30
12.00 CFS	5.91	5.54	5.19	4.86	4.56	4.27	4.00	3.75
12.40 CFS	3.51	3.29	3.08	2.89	2.70	2.53	2.37	2.22
12.80 CFS	2.08	1.94	1.82	1.70	1.59	1.49	1.39	1.30
13.20 CFS	1.22	1.14	1.07	1.00	.93	.87	.81	.76
13.60 CFS	.71	.66	.62	.58	.54	.50	.47	

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
3.50 WATERSHED INCHES; 24470 CFS-HRS; 2022.2 ACRE-FEET.

OPERATION DIVERT XSECTION 35
OUTPUT #1 HYDROGRAPH

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
2.77	7598.9	(DIVERT)
4.15	7011.1	(DIVERT)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 1
MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = 10.84 SQ.MI.

HRS								
2.00 CFS	0	10	42	117	271	536	953	1540
2.40 CFS	2300	3202	4192	5205	6156	6913	7375	7575
2.80 CFS	7572	7377	7116	6713	6218	5720	5275	4964
3.20 CFS	4754	4644	4617	4670	4780	4933	5118	5330
3.60 CFS	5553	5780	6003	6221	6419	6590	6731	6840
4.00 CFS	6920	6973	7002	7011	7002	6978	6941	6895
4.40 CFS	6837	6769	6689	6598	6499	6393	6281	6167
4.80 CFS	6051	5936	5818	5699	5579	5456	5332	5207
5.20 CFS	5083	4961	4840	4722	4605	4490	4376	4261
5.60 CFS	4148	4037	3927	3821	3715	3612	3509	3404
6.00 CFS	3299	3193	3089	2985	2882	2781	2680	2582
6.40 CFS	2484	2388	2293	2199	2106	2016	1931	1853
6.80 CFS	1782	1718	1659	1603	1551	1499	1450	1401
7.20 CFS	1352	1305	1257	1211	1165	1119	1075	1031
7.60 CFS	988	945	904	864	826	788	752	716
8.00 CFS	682	650	618	588	559	531	504	479
8.40 CFS	454	431	408	387	367	347	329	311
8.80 CFS	295	279	263	249	235	222	210	198
9.20 CFS	187	177	167	157	149	140	132	125
9.60 CFS	117	111	104	98	93	87	82	77
10.00 CFS	72.74	68.46	64.43	60.63	57.04	53.66	50.47	47.47
10.40 CFS	44.64	41.97	39.46	37.09	34.86	32.76	30.79	28.93
10.80 CFS	27.18	25.53	23.98	22.52	21.15	19.86	18.65	17.51
11.20 CFS	16.44	15.43	14.48	13.59	12.75	11.97	11.23	10.53
11.60 CFS	9.88	9.27	8.69	8.15	7.65	7.17	6.72	6.30
12.00 CFS	5.91	5.54	5.19	4.86	4.56	4.27	4.00	3.75
12.40 CFS	3.51	3.29	3.08	2.89	2.70	2.53	2.37	2.22
12.80 CFS	2.08	1.94	1.82	1.70	1.59	1.49	1.39	1.30
13.20 CFS	1.22	1.14	1.07	1.00	.93	.87	.81	.76
13.60 CFS	.71	.66	.62	.58	.54	.50	.47	

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
3.50 WATERSHED INCHES; 24470 CFS-HRS; 2022.2 ACRE-FEET.

OUTPUT #2 DIVERTED HYDROGRAPH (XSECTION 199)

*** MESSAGE - HYDROGRAPH CONTAINS NO FLOW ***

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
290 CFS-HRS; 2022.2 ACRE-FEET.

OPERATION REACH XSECTION 45

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
2.90	7266.0	6.76
4.28	6977.0	6.61

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
3.50 WATERSHED INCHES; 24470 CFS-HRS; 2022.2 ACRE-FEET.

OPERATION RUNOFF XSECTION 6

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
2.46	4856.9	(RUNOFF)
5.09	226.3	(RUNOFF)
5.57	187.7	(RUNOFF)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 1
MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = 1.47 SQ.MI.

HRS								
1.30 CFS	.24	.82	2.05	4.20	7.48	12.11	18.24	26.19
1.70 CFS	36	48	60	74	87	101	127	210
2.10 CFS	411	805	1429	2243	3142	3979	4594	4853
2.50 CFS	4707	4245	3630	3001	2459	2052	1779	1595
2.90 CFS	1449	1327	1229	1139	1044	949	865	793
3.30 CFS	734	694	677	671	668	662	651	632
3.70 CFS	606	574	537	501	471	450	440	437
4.10 CFS	434	426	411	390	365	340	320	306
4.50 CFS	300	298	296	292	283	269	253	239
4.90 CFS	229	224	223	225	226	224	215	204
5.30 CFS	195	187	182	181	184	187	187	183
5.70 CFS	175	164	151	137	124	116	111	109
6.10 CFS	105	97	84	67	47	28	13	5
6.50 CFS	.79	.00						

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
3.90 WATERSHED INCHES; 3697 CFS-HRS; 305.5 ACRE-FEET.

OPERATION REACH XSECTION 60

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
2.76	3219.0	6.30

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
3.90 WATERSHED INCHES; 3697 CFS-HRS; 305.5 ACRE-FEET.

OPERATION REACH XSECTION 67

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
3.09	2291.6	5.23

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
3.90 WATERSHED INCHES; 3697 CFS-HRS; 305.5 ACRE-FEET.

OPERATION ADDHYD XSECTION 64

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
2.94	9381.6	(NULL)
4.16	7845.9	(NULL)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 1
MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = 12.31 SQ.MI.

HRS								
1.70 CFS	.48	.93	1.63	2.68	4.18	6.23	8.94	12.46
2.10 CFS	21	41	88	184	361	657	1109	1744
2.50 CFS	2568	3560	4675	5844	6957	7902	8618	9094
2.90 CFS	9328	9377	9243	8953	8563	8130	7723	7369
3.30 CFS	7085	6874	6737	6667	6652	6685	6756	6858
3.70 CFS	6981	7116	7258	7398	7527	7638	7726	7790
4.10 CFS	7829	7845	7840	7817	7778	7726	7663	7590
4.50 CFS	7507	7413	7310	7198	7078	6952	6822	6691
4.90 CFS	6558	6425	6290	6155	6019	5881	5743	5606
5.30 CFS	5470	5336	5205	5075	4948	4822	4698	4575
5.70 CFS	4453	4334	4218	4104	3992	3881	3771	3659
6.10 CFS	3548	3436	3324	3214	3104	2996	2888	2782
6.50 CFS	2676	2571	2467	2363	2261	2162	2068	1980
6.90 CFS	1899	1824	1755	1690	1629	1570	1514	1459
7.30 CFS	1406	1354	1303	1253	1204	1156	1109	1063
7.70 CFS	1018	974	931	890	850	811	773	737
8.10 CFS	702	668	635	604	574	546	518	492
8.50 CFS	467	443	420	398	377	357	338	320
8.90 CFS	303	286	271	256	242	229	216	204
9.30 CFS	193	182	172	162	153	144	136	128
9.70 CFS	121	114	107	101	95	90	85	80
10.10 CFS	74.92	70.52	66.37	62.46	58.77	55.28	52.01	48.91
10.50 CFS	46.00	43.26	40.67	38.23	35.94	33.78	31.74	29.83
10.90 CFS	28.02	26.33	24.73	23.23	21.82	20.49	19.24	18.06
11.30 CFS	16.96	15.92	14.94	14.02	13.16	12.35	11.59	10.87
11.70 CFS	10.20	9.57	8.97	8.42	7.89	7.40	6.94	6.51
12.10 CFS	6.10	5.72	5.36	5.02	4.71	4.41	4.13	3.87
12.50 CFS	3.63	3.40	3.18	2.98	2.79	2.61	2.45	2.29
12.90 CFS	2.15	2.01	1.88	1.76	1.64	1.54	1.44	1.35
13.30 CFS	1.26	1.18	1.10	1.03	.96	.90	.84	.78
13.70 CFS	.73	.68	.64	.60	.56	.52	.48	

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
3.55 WATERSHED INCHES; 28167 CFS-HRS; 2327.7 ACRE-FEET.

OPERATION RUNOFF XSECTION 5

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET) (RUNOFF)
2.71	9115.0	

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 1
MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = 4.78 SQ.MI.

HRS								
1.90 CFS	0	1	3	31	119	307	649	1190
2.30 CFS	1963	2948	4089	5296	6462	7496	8309	8858
2.70 CFS	9104	9027	8618	7898	7043	6122	5308	4646
3.10 CFS	4133	3764	3449	3167	2921	2713	2529	2365
3.50 CFS	2228	2117	2028	1954	1900	1858	1811	1756
3.90 CFS	1692	1624	1557	1492	1430	1371	1318	1268
4.30 CFS	1225	1186	1147	1107	1065	1022	980	939
4.70 CFS	903	872	845	821	798	776	754	731
5.10 CFS	709	687	668	653	639	627	615	605
5.50 CFS	593	579	565	553	542	531	519	506
5.90 CFS	487	463	438	412	386	359	331	301
6.30 CFS	270	238	206	173	139	106	73	44
6.70 CFS	22.37	8.57	1.72	.11				

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
3.03 WATERSHED INCHES; 9358 CFS-HRS; 773.3 ACRE-FEET.

OPERATION RUNOFF XSECTION 7

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET) (RUNOFF)
2.87	6426.6	

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 1
MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = 3.48 SQ.MI.

HRS								
1.75 CFS	.23	.62	1.37	2.66	4.70	10.12	30.46	80.52
2.15 CFS	178	340	584	923	1365	1908	2533	3209
2.55 CFS	3895	4547	5132	5626	6013	6281	6414	6401
2.95 CFS	6242	5940	5483	4945	4368	3819	3353	2969
3.35 CFS	2679	2455	2265	2101	1964	1847	1743	1650
3.75 CFS	1571	1503	1443	1388	1342	1302	1261	1219
4.15 CFS	1176	1131	1087	1044	1000	959	920	884
4.55 CFS	853	825	799	772	744	716	687	660
4.95 CFS	636	615	597	581	567	553	538	523
5.35 CFS	507	492	479	469	460	453	445	437
5.75 CFS	427	416	404	391	378	365	353	339
6.15 CFS	323	305	285	263	240	216	191	167
6.55 CFS	144	123	102	83	64	47	31	18
6.95 CFS	8.82	3.09	.53	.07				

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
3.31 WATERSHED INCHES; 7431 CFS-HRS; 614.1 ACRE-FEET.

OPERATION ADDHYD XSECTION 75

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
2.76	15047.8	(NULL)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 1
MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = 8.26 SQ.MI.

HRS								
1.75 CFS	0	1	1	3	5	13	62	199
2.15 CFS	485	989	1774	2886	4313	5997	7829	9671
2.55 CFS	11390	12855	13990	14730	15040	14899	14312	13444
2.95 CFS	12364	11248	10129	9079	8132	7268	6520	5890
3.35 CFS	5392	4984	4630	4329	4081	3875	3697	3551
3.75 CFS	3429	3315	3198	3081	2967	2859	2753	2649
4.15 CFS	2547	2449	2356	2268	2187	2106	2027	1948
4.55 CFS	1875	1805	1738	1675	1616	1560	1508	1458
4.95 CFS	1412	1368	1328	1290	1254	1221	1191	1162
5.35 CFS	1134	1107	1084	1062	1039	1018	999	980
5.75 CFS	959	934	909	879	842	803	765	725
6.15 CFS	683	636	586	533	478	422	364	306
6.55 CFS	250	196	146	105	73	49	31	18
6.95 CFS	8.82	3.09	.53	.07				

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
3.15 WATERSHED INCHES; 16789 CFS-HRS; 1387.5 ACRE-FEET.

OPERATION ADDHYD XSECTION 76

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
2.82	23556.0	(NULL)
3.91	10608.3	(NULL)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 1
MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = 20.57 SQ.MI.

HRS								
1.65 CFS	.24	.55	1.16	2.24	4.10	7.08	11.68	22.22
2.05 CFS	74	220	526	1077	1958	3246	4970	7106
2.45 CFS	9573	12239	14950	17530	19834	21687	22941	23517
2.85 CFS	23405	22772	21741	20491	19082	17642	16262	14990
3.25 CFS	13888	12975	12266	11722	11296	10981	10766	10631
3.65 CFS	10556	10531	10545	10573	10597	10608	10605	10585
4.05 CFS	10543	10478	10392	10289	10172	10046	9912	9769
4.45 CFS	9617	9455	9288	9115	8936	8752	8568	8383
4.85 CFS	8199	8016	7836	7659	7483	7309	7135	6964
5.25 CFS	6797	6632	6470	6312	6159	6010	5861	5716
5.65 CFS	5573	5433	5293	5152	5013	4870	4723	4574
6.05 CFS	4424	4273	4118	3961	3800	3637	3474	3310
6.45 CFS	3146	2982	2821	2662	2509	2366	2235	2117
6.85 CFS	2011	1917	1833	1758	1690	1629	1570	1514

7.25 CFS	1459	1406	1354	1303	1253	1204	1156	1109
7.65 CFS	1063	1018	974	931	890	850	811	773
8.05 CFS	737	702	668	635	604	574	546	518
8.45 CFS	492	467	443	420	398	377	357	338
8.85 CFS	320	303	286	271	256	242	229	216
9.25 CFS	204	193	182	172	162	153	144	136
9.65 CFS	128	121	114	107	101	95	90	85
10.05 CFS	79.58	74.92	70.52	66.37	62.46	58.77	55.28	52.01
10.45 CFS	48.91	46.00	43.26	40.67	38.23	35.94	33.78	31.74
10.85 CFS	29.83	28.02	26.33	24.73	23.23	21.82	20.49	19.24
11.25 CFS	18.06	16.96	15.92	14.94	14.02	13.16	12.35	11.59
11.65 CFS	10.87	10.20	9.57	8.97	8.42	7.89	7.40	6.94
12.05 CFS	6.51	6.10	5.72	5.36	5.02	4.71	4.41	4.13
12.45 CFS	3.87	3.63	3.40	3.18	2.98	2.79	2.61	2.45
12.85 CFS	2.29	2.15	2.01	1.88	1.76	1.64	1.54	1.44
13.25 CFS	1.35	1.26	1.18	1.10	1.03	.96	.90	.84
13.65 CFS	.78	.73	.68	.64	.60	.56	.52	.48

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
3.39 WATERSHED INCHES; 44956 CFS-HRS; 3715.2 ACRE-FEET.

--- XSECTION 76, ALTERNATE 1, STORM 1, HYDROGRAPH ADDED TO READHD FILE ---

*** MESSAGE - STRUCTURE 1, USER ENTERED STARTING ELEVATION (1193.0 FEET) CAN ADD .118 INCHES OF RUNOFF TO THE OUTFLOW HYDROGRAPH VOLUME.***

*** MESSAGE - RESERVOIR ROUTING, STRUCTURE 1, TRUNCATED AT 400 POINTS WITH 3162.32 AC-FT (.24 WATERSHED INCHES) FLOOD STORAGE REMAINING IN RESERVOIR AT ELEV. 1211.82. ***

OPERATION RESVOR STRUCTURE 1

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.81	2106.3	1212.78

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 1
MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = 20.57 SQ.MI.

HRS								
1.30 CFS	7.29	7.29	7.29	7.29	7.28	7.28	7.28	7.28
1.70 CFS	7.28	7.28	7.27	7.27	7.27	7.27	7.28	7.28
2.10 CFS	7.32	7.39	7.57	7.89	8.46	9.34	10.65	12.46
2.50 CFS	14.82	17.76	21.28	25.32	28.77	31.95	35.26	38.60
2.90 CFS	41.30	43.88	46.34	48.50	50.17	51.71	53.13	54.44
3.30 CFS	55.66	56.80	57.81	58.78	59.71	60.63	61.52	62.41
3.70 CFS	63.30	64.18	65.07	65.96	66.83	67.68	68.53	69.37
4.10 CFS	70.21	71.05	71.88	72.70	73.51	74.30	75.09	75.87
4.50 CFS	76.63	77.30	77.84	78.36	78.87	79.38	79.87	80.35
4.90 CFS	80.82	81.28	81.73	82.16	82.59	83.01	83.42	83.82
5.30 CFS	84	85	85	85	86	116	293	460
5.70 CFS	618	766	905	1035	1157	1271	1376	1474
6.10 CFS	1564	1646	1720	1788	1848	1901	1948	1988

6.50 CFS	2022	2049	2071	2087	2098	2104	2106	2105
6.90 CFS	2101	2094	2084	2073	2060	2046	2030	2013
7.30 CFS	1995	1976	1955	1934	1912	1889	1866	1841
7.70 CFS	1816	1791	1765	1738	1711	1683	1655	1627
8.10 CFS	1599	1570	1542	1513	1484	1455	1427	1398
8.50 CFS	1369	1341	1312	1284	1256	1228	1201	1174
8.90 CFS	1147	1120	1094	1068	1042	1017	992	968
9.30 CFS	944	920	897	874	852	830	808	787
9.70 CFS	767	746	726	707	688	669	651	633
10.10 CFS	616	599	583	566	551	535	520	506
10.50 CFS	491	477	464	450	438	425	413	401
10.90 CFS	389	378	367	356	346	336	326	316
11.30 CFS	307	298	289	280	272	264	256	248
11.70 CFS	241	234	227	220	213	207	201	195
12.10 CFS	189	183	178	172	167	162	157	152
12.50 CFS	148	143	139	134	130	126	123	119
12.90 CFS	115	112	108	105	102	99	95	93
13.30 CFS	89.69	86.93	85.95	85.94	85.94	85.93	85.93	85.92
13.70 CFS	85.92	85.91	85.91	85.90	85.90	85.89	85.89	85.88
14.10 CFS	85.88	85.87	85.87	85.86	85.86	85.85	85.85	85.84
14.50 CFS	85.84	85.83	85.83	85.82	85.82	85.81	85.81	85.80
14.90 CFS	85.80	85.79	85.79	85.78	85.78	85.77	85.77	85.76
15.30 CFS	85.76	85.75	85.75	85.74	85.74	85.73	85.73	85.72
15.70 CFS	85.72	85.71	85.71	85.70	85.70	85.69	85.69	85.68
16.10 CFS	85.68	85.67	85.67	85.66	85.66	85.65	85.65	85.64
16.50 CFS	85.64	85.63	85.63	85.62	85.62	85.61	85.61	85.60
16.90 CFS	85.60	85.59	85.59	85.58	85.58	85.57	85.57	85.56
17.30 CFS	85.56	85.55	85.55	85.54	85.54	85.53	85.53	85.52
17.70 CFS	85.52	85.51	85.51	85.50	85.50	85.49	85.49	85.48
18.10 CFS	85.48	85.47	85.47	85.46	85.46	85.45	85.45	85.44
18.50 CFS	85.44	85.43	85.43	85.42	85.42	85.41	85.41	85.40
18.90 CFS	85.40	85.39	85.39	85.38	85.38	85.37	85.37	85.36
19.30 CFS	85.36	85.35	85.35	85.34	85.34	85.33	85.33	85.32
19.70 CFS	85.32	85.31	85.31	85.30	85.30	85.29	85.29	85.28
20.10 CFS	85.28	85.27	85.27	85.26	85.26	85.25	85.25	85.24
20.50 CFS	85.24	85.23	85.23	85.22	85.22	85.21	85.21	85.20
20.90 CFS	85.20	85.19	85.19	85.18	85.18	85.17	85.17	85.16

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
.62 WATERSHED INCHES; 8253 CFS-HRS; 682.0 ACRE-FEET.

--- STRUCTURE 1, ALTERNATE 1, STORM 1, HYDROGRAPH ADDED TO READHD FILE ---

EXECUTIVE CONTROL ENDCMP COMPUTATIONS COMPLETED FOR PASS 1

SUMMARY TABLE 1

SELECTED RESULTS OF STANDARD AND EXECUTIVE CONTROL IN ORDER PERFORMED.
A CHARACTER FOLLOWING THE PEAK DISCHARGE TIME AND RATE (CFS) INDICATES:
F-FLAT TOP HYDROGRAPH T-TRUNCATED HYDROGRAPH R-RISING TRUNCATED HYDROGRAPH

RAINFALL OF 5.29 inches AND 6.00 hr DURATION, BEGINS AT .0 hrs.
RAINTABLE NUMBER 2, ARC 2
MAIN TIME INCREMENT .050 HOURS

ALTERNATE 1 STORM 1

XSECTION/ STRUCTURE ID	STANDARD CONTROL OPERATION	DRAINAGE AREA (SQ MI)	RUNOFF AMOUNT (IN)	PEAK DISCHARGE ELEVATION (FT)	TIME (HR)	RATE (CFS)	RATE (CSM)
XSECTION 1	RUNOFF	2.46	3.86	---	2.73	6069	2467.1
XSECTION 5	REACH	2.46	3.86	6.06	3.43	3248	1320.3
XSECTION 10	REACH	2.46	3.86	6.94	4.17	2220	902.4
XSECTION 2	RUNOFF	2.38	3.14	---	2.67	4870	2046.2
XSECTION 12	ADDHYD	4.84	3.51	---	2.67	4885	1009.3
XSECTION 12	DIVERT	4.84	3.46	---	2.55F	4100F	847.1
XSECTION 200	DIVERT	.00	3.46	---	2.67	785	********
XSECTION 20	REACH	4.84	3.46	7.94	2.83	4096	846.3
XSECTION 25	REACH	4.84	3.46	5.02	2.89	4072	841.3
XSECTION 3	RUNOFF	3.94	3.86	---	2.75	9534	2419.8
XSECTION 30	REACH	3.94	3.86	4.81	3.52	4906	1245.2
XSECTION 5	REACH	3.94	3.86	6.18	4.20	3530	895.9
XSECTION 25	REACH	3.94	3.86	4.59	4.28	3525	894.7
XSECTION 4	RUNOFF	2.06	2.89	---	2.73	3682	1787.4
XSECTION 34	ADDHYD	6.00	3.53	---	4.17	4072	678.7
XSECTION 35	ADDHYD	10.84	3.50	---	2.77	7599	701.0
XSECTION 35	DIVERT	10.84	3.50	---	2.77	7599	701.0
XSECTION 199	DIVERT	.00	3.50	---	.00	0	********
XSECTION 45	REACH	10.84	3.50	6.76	2.90	7266	670.3
XSECTION 6	RUNOFF	1.47	3.90	---	2.46	4857	3304.1
XSECTION 60	REACH	1.47	3.90	6.30	2.76	3219	2189.8
XSECTION 67	REACH	1.47	3.90	5.23	3.09	2292	1559.2
XSECTION 64	ADDHYD	12.31	3.55	---	2.94	9382	762.1
XSECTION 5	RUNOFF	4.78	3.03	---	2.71	9115	1906.9
XSECTION 7	RUNOFF	3.48	3.31	---	2.87	6427	1846.8
XSECTION 75	ADDHYD	8.26	3.15	---	2.76	15048	1821.8
XSECTION 76	ADDHYD	20.57	3.39	---	2.82	23556	1145.2
STRUCTURE 1	RESVOR	20.57	.62	1212.78	6.81	2106	102.4

SUMMARY TABLE 2

MODIFIED ATT-KIN REACH ROUTING IN ORDER PERFORMED.
QUESTION MARK (?) AFTER: OUTFLOW PEAK - MAX. NUMBER ROUTING ITERATIONS USED;
LENGTH FACTOR - VALUE k* GREATER THAN 1.0;
ATT-KIN COEFF - VALUE C GREATER THAN 0.667.

BASEFLOW IS .0 CFS

ALTERNATE 1 STORM 1

XSEC ID	REACH LENGTH (FT)	FLOOD PLAIN LENGTH (FT)	HYDROGRAPH INFORMATION INFLOW PEAK (CFS)	INFLOW TIME (HR)	OUTFLOW PEAK (CFS)	OUTFLOW TIME (HR)	ROUTING PARAMETERS Q-A EQ. COEFF (X)	Q-A EQ. POWER (M)	LENGTH FACTOR (k*)	PEAK RATIO Q/I (Q*)	ATT-KIN COEFF (C)
5	9100		6057	2.8	3245	3.5	1.92	1.08	.688	.536	.07
10	9100		3245	3.5	2219	4.2	2.40	1.05	.372	.684	.07
20	3332		4100	2.5	4086	2.8	.14	1.63	.007	.997	.50
25	1950		4086	2.8	4070	2.9	.052	1.73	.003	.996	.65
30	8865		9533	2.8	4901	3.5	1.53	1.09	.756	.514	.07
5	8865		4901	3.5	3530	4.2	1.77	1.09	.318	.720	.07
25	1950		3530	4.2	3524	4.3	.051	1.73	.003	.998	.62
45	4200		7575	2.8	7266	2.9	.049	1.72	.006	.959	.42
60	7540		4853	2.5	3217	2.8	.41	1.38	.387	.663	.17
67	5140		3217	2.8	2291	3.1	1.26	1.15	.298	.712	.13

SUMMARY TABLE 3

STORM DISCHARGES (CFS) AT XSECTIONS AND STRUCTURES FOR ALL ALTERNATES
QUESTION MARK (?) AFTER: OUTFLOW PEAK - RISING TRUNCATED HYDROGRAPH.

XSECTION/ STRUCTURE ID	DRAINAGE AREA (SQ MI)	STORM NUMBERS..... 1
STRUCTURE 1	20.57	
ALTERNATE 1		2106
XSECTION 1	2.46	
ALTERNATE 1		6069
XSECTION 2	2.38	
ALTERNATE 1		4870
XSECTION 3	3.94	
ALTERNATE 1		9534
XSECTION 4	2.06	
ALTERNATE 1		3682
XSECTION 5	4.78	
ALTERNATE 1		9115
XSECTION 6	1.47	
ALTERNATE 1		4857
XSECTION 7	3.48	
ALTERNATE 1		6427
XSECTION 10	2.46	
ALTERNATE 1		2220
XSECTION 12	4.84	
ALTERNATE 1		4100
XSECTION 20	4.84	
ALTERNATE 1		4096
XSECTION 25	3.94	
ALTERNATE 1		3525
XSECTION 30	3.94	
ALTERNATE 1		4906
XSECTION 34	6.00	

SUMMARY TABLE 3

STORM DISCHARGES (CFS) AT XSECTIONS AND STRUCTURES FOR ALL ALTERNATES
QUESTION MARK (?) AFTER: OUTFLOW PEAK - RISING TRUNCATED HYDROGRAPH.

XSECTION/ STRUCTURE ID	DRAINAGE AREA (SQ MI)	STORM NUMBERS..... 1
XSECTION 34	6.00	
ALTERNATE 1		4072
XSECTION 35	10.84	
ALTERNATE 1		7599
XSECTION 45	10.84	
ALTERNATE 1		7266
XSECTION 60	1.47	
ALTERNATE 1		3219
XSECTION 64	12.31	
ALTERNATE 1		9382
XSECTION 67	1.47	
ALTERNATE 1		2292
XSECTION 75	8.26	
ALTERNATE 1		15048
XSECTION 76	20.57	
ALTERNATE 1		23556
XSECTION 199	.00	
ALTERNATE 1		0
XSECTION 200	.00	
ALTERNATE 1		785

ECON2 DATA FILE

```
ECON2
TITLE        WHITE TANK FRS #3, WATERSHED DIVIDED INTO 7 SUB-BASINS
TITLE                   ESH HYDROGRAPH, 100-YR SEDIMENT
FLOW-FREQ    -1          2106.                                      ALT  1   1
FLOW-FREQ     1          6069.                                      ALT  1   2
FLOW-FREQ     2          4870.                                      ALT  1   3
FLOW-FREQ     3          9534.                                      ALT  1   4
FLOW-FREQ     4          3682.                                      ALT  1   5
FLOW-FREQ     5          9115.                                      ALT  1   6
FLOW-FREQ     6          4857.                                      ALT  1   7
FLOW-FREQ     7          6427.                                      ALT  1   8
FLOW-FREQ    10          2220.                                      ALT  1   9
FLOW-FREQ    12          4100.                                      ALT  1  10
FLOW-FREQ    20          4096.                                      ALT  1  11
FLOW-FREQ    25          3525.                                      ALT  1  12
FLOW-FREQ    30          4906.                                      ALT  1  13
FLOW-FREQ    34          4072.                                      ALT  1  14
FLOW-FREQ    35          7599.                                      ALT  1  15
FLOW-FREQ    45          7266.                                      ALT  1  16
FLOW-FREQ    60          3219.                                      ALT  1  17
FLOW-FREQ    64          9382.                                      ALT  1  18
FLOW-FREQ    67          2292.                                      ALT  1  19
FLOW-FREQ    75         15048.                                      ALT  1  20
FLOW-FREQ    76         23556.                                      ALT  1  21
FLOW-FREQ   200           785.                                      ALT  1  22
```

```
TR20 ------------------------------------------------------------------ SCS -
WT3ESH       WHITE TANK FRS #3, WATERSHED DIVIDED INTO 7 SUB-BASINS      VERSION
09/07/**                ESH HYDROGRAPH, 100-YR SEDIMENT                 2.04TEST


END OF  1 JOBS IN THIS RUN


                    SCS  TR-20,  VERSION 2.04TEST
                          WT3ESH    FILES

     INPUT  = ESH.DAT                                  , GIVEN DATA FILE
     OUTPUT = OUT.OUT                                  , DATED 09/07/**,13:04:17

              FILES GENERATED - DATED 09/07/**,13:04:17

    FILE 111.TEC CONTAINS ECON2 INFORMATION

    FILE 111.TRD CONTAINS READHD INFORMATION


          TOTAL NUMBER OF WARNINGS =    0,  MESSAGES =    3

                       JOB ENDED AT 13:04:17
                   *** TR-20 RUN COMPLETED ***
```

URS

CALCULATION PACKAGE NO. D-12

EXHIBIT 4.7-2

CALCULATION COVER SHEET

Client: Flood Control District of Maricopa County (FCDMC)

Project Name: White Tank FRS No. 3 Design

Project/Calculation Number: 23443748

Title:

RESERVOIR ROUTING OF AN EMERGENCY SPILLWAY HYDROGRAPH (ESH) FOR FUTURE CONDITION (PRINCIPAL SPILLWAY OPEN) USING TR-20 MODEL

Total Number of Pages (including cover sheet): _____

Total Number of Computer Runs: 1

Prepared by: Hammad Hussain Date: 09/07/04

Checked by: Todd Ringsmuth Date: 9/7/04

Description and Purpose:

See Page 2

Design Basis /Assumptions

See Page 2

Remarks/Conclusions/Results:

See Pages 4 and 5.

Calculation Approved by: Todd Ringsmuth 9/7/04
Project Manager/Date

Revision No.:	Description of Revision:	Approved by:

Project Manager/Date

RESERVOIR ROUTING OF AN EMERGENCY SPILLWAY HYDROGRAPH (ESH) FOR FUTURE CONDITION (PRINCIPAL SPILLWAY OPEN) USING TR-20 MODEL

(WHITE TANK FLOOD RETARDING STRUCTURE (FRS) NO. 3)
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY (FCDMC)
23443748

PROBLEM STATEMENT

The aim of this calculation package is to perform the reservoir routing of an Emergency Spillway Hydrograph (ESH) for the future condition (Pricnipal Spillway Open) through the White Tank FRS No. 3 reservoir and to determine the peak outflow and corresponding water surface elevation.

DESIGN BASIS/ASSUMPTIONS/REFERENCES

FUTRE CONDITION (Principal Spillway Open)

The Future Condition (Principal Spillway Open) represents the time period following construction of the downstream conveyance channel and the principal spillway is opened. The inlet to the principal spillway is set at elevation 1,200 feet (NAVD 88). It is assumed that the 100-year sediment volume (500 ac-ft) has accumulated in the reservoir. Under this condition outflow from the reservoir occurs through infiltration, flow through the principal spillway, and flow through the emergency spillway.

For the Future Condition (Principal Spillway Open), the antecedent reservoir condition (ARC) for the routing of an emergency spillway hydrograph (ESH) will be based on the inlet elevation of the principal spillway or at elevation 1200.0 ft (NAVD 88).

EMERGENCY SPILLWAY HYDROGRAPH

URS was provided by Flood District the electronic version of TR-20 hydrologic model of an Emergency Spillway Hydrograph (ESH). This model was developed by Natural Resources Conservation Services (NRCS) and documented in a report titled as "*Hydrologic Analysis of the White Tank Mountains on Flood Retarding Structure # 3*" (NRCS, August 1998). The ESH hydrograph was based on a hyetograph that was combination of the 100-year, 6-hour and 6-hour Local PMP. It was based on the following relationship as described on page 10 of NRCS 1998 report:

ESH = (100-yr 6-hr Precipitation)+ [0.26* (6-hr Local PMP – 100-yr 6-hr)]

ESH = (2.69) + [0.26*(12.7-2.69)]

ESH = 5.29 inches

The existing ESH model provided by NRCS was updated for future conditions by incorporating new curve numbers in anticipation of future urban growth. A new elevation-storage curve for the White Tank FRS No. 3 was developed using the 2003 topographic map in combination with the modified 1998 topographic map, both of which were provided by the District. The new elevation-storage curve was based on 500 ac-ft of sediment storage for the 100-year sediment pool level. The infiltration rates were also estimated based on 500 ac-ft of sediment storage. An elevation-spillway rating curve for the White Tank FRS No. 3 emergency spillway was also developed. The procedure and calculations involved in establishing new curve numbers, new elevation-spillway discharge rating curve, new infiltration numbers and new elevation-storage curve are provided in separate calculation packages.

Please also note that the URS's modifications to the NRCS's existing ESH model is consisted of revising the runoff curve numbers only and incorporating new elevation-spillway discharge curve and new elevation-storage curve. URS did not modify the lag times (times of concentrations) as well as antecedent moisture condition (AMC) for developed areas due to unknowns involved. In addition, URS used the same rainfall amount as well as the rainfall distribution used by NRCS for ESH hydrograph routing.

DIVERSIONS

The TR-20 models developed by NRCS included two diversions from the watershed. The diversions occur along the eastern edge of the watershed at Olive Avenue and Northern Avenue where a stormwater channel is restricted by culverts at the road crossings. The effect of the diversions is to reduce the peak flow and volume reaching the reservoir from the northern half of the watershed. In general, 100-year, 24-hour flows are allowed the reach the reservoir, but flows exceeding the restrictions are diverted out of the watershed.

At Olive Avenue, flows greater than 4,100 cfs are diverted out of the watershed. At Northern Avenue, flows greater than 11,000 cfs are diverted out of the watershed. The base hydraulic calculations for these diversion estimates were not presented in the NRCS hydrologic report (NRCS 1998), nor were the flows out of the reservoir watershed quantified.

RESULTS

URS routed the updated ESH hydrograph through the White Tank reservoir under Future Condition (principal spillway open) using the TR-20 model starting at the inlet elevation of the principal spillway or at elvation1200.0 ft (NAVD 88). The reservoir routing results indicated that the White Tank FRS No.3

reservoir could not hold the ESH below the emergency spillway under Future Condition (principal spillway open). Reservoir routing results i.e. peak inflow, peak outflow, antecedent reservoir condition (ARC) and reservoir stage for ESH hydrograph are provided in Table 1 on Page 4. The input file and the detailed output results for ESH hydrograph routing for Future Condition (principal spillway open)are attached with this calculation package.

TABLE 1
RESERVOIR ROUTING RESULTS FOR EMERGENCY SPILLWAY HYDROGRAPH
(FUTURE CONDITON – PRINCIPAL SPILLWAY OPEN)

Storm Event	Inflow to White Tank FRS No.3		Outflow from White Tank FRS No.3		
	Precipitation (inches)	Peak Inflow (cfs)	Antecedent Reservoir Condition (ARC)	Peak Outflow[1] (cfs)	Maximum Reservoir Elevation (NAVD 88) (ft)
ESH	5.29	23,556	1200.0	3,912	1213.2

```
******************80-80 LIST OF INPUT DATA FOR TR-20 HYDROLOGY******************

JOB TR-20 WT3ESH    ECON                PASS=001  SUMMARY
TITLE     WHITE TANK FRS #3, WATERSHED DIVIDED INTO 7 SUB-BASINS
TITLE     ESH HYDROGRAPH, 100-YR SEDIMENT
 5 RAINFL 1     1       2.4                                                10-DAY
 8          .0000       .0024       .0048       .0073       .0097
 8          .0121       .0148       .0174       .0201       .0228
 8          .0254       .0284       .0314       .0344       .0374
 8          .0404       .0437       .0471       .0505       .0539
 8          .0572       .0612       .0651       .0690       .0729
 8          .0768       .0815       .0862       .0909       .0955
 8          .1002       .1061       .1120       .1179       .1238
 8          .1297       .1377       .1458       .1538       .1618
 8          .1699       .1832       .1966       .2099       .2232
 8          .2366       .2548       .2778       .3093       .3614
 8          1.092       1.174       1.213       1.240       1.260
 8          1.276       1.286       1.296       1.306       1.316
 8          1.326       1.333       1.340       1.347       1.354
 8          1.360       1.365       1.371       1.376       1.381
 8          1.386       1.391       1.395       1.399       1.403
 8          1.408       1.411       1.415       1.418       1.422
 8          1.426       1.429       1.432       1.435       1.438
 8          1.442       1.444       1.447       1.450       1.453
 8          1.456       1.458       1.461       1.463       1.466
 8          1.468       1.471       1.473       1.475       1.477
 8          1.48        1.48        1.48        1.48        1.48
 9 ENDTBL
 5 RAINFL 2             0.1                                                6HRLOCAL
 8          .0000       .003        .006        .009        .013
 8          .016        .020        .025        .030        .035
 8          .039        .046        .052        .058        .065
 8          .071        .080        .090        .099        .109
 8          .118        .283        .449        .567        .622
 8          .669        .701        .732        .756        .780
 8          .795        .809        .824        .838        .852
 8          .866        .876        .885        .894        .904
 8          .913        .920        .926        .932        .939
 8          .945        .950        .954        .959        .964
 8          .969        .972        .976        .980        .984
 8          .988        .991        .993        .995        .998
 8          1.          1.          1.          1.          1.
 9 ENDTBL
 5 RAINFL 3             .1                                                 6HR GEN
 8          .000        .005        .013        .020        .028
 8          .038        .045        .053        .060        .070
 8          .080        .085        .095        .108        .120
 8          .138        .150        .165        .190        .210
 8          .238        .280        .350        .440        .550
 8          .590        .620        .645        .668        .685
 8          .700        .720        .735        .753        .765
 8          .775        .790        .800        .810        .820
 8          .835        .843        .850        .863        .870
 8          .880        .890        .898        .908        .915
 8          .925        .930        .940        .945        .955
 8          .963        .970        .978        .985        .990
 8          1.00        1.00        1.00        1.00        1.00
 9 ENDTBL
```

```
**********************80-80 LIST OF INPUT DATA (CONTINUED)**********************

 4 DIMHYD                .0556                                          WT3
 8          0.0          .03          .10          .19          .31
 8          .47          .66          .82          .93          .99
 8          1.0          .99          .93          .82          .66
 8          .47          .31          .03          .00          .00
 9 ENDTBL
 2 XSECTN   005          1.0          8.77                            BOSSCS#5
 8                       0.           0.0          0.0
 8                       0.35         5.           5.56
 8                       1.03         50.          30.95
 8                       1.39         100.         52.16
 8                       1.94         200.         88.72
 8                       2.63         400.         148.61
 8                       3.51         800.         260.63
 8                       4.62         1600.        459.66
 8                       6.04         3200.        929.36
 8                       7.38         6400.        1811.51
 8                       8.77         12800.       3374.20
 8                       10.17        25600.       6398.87
 8                       11.89        51200.       10982.51
 9 ENDTBL
 2 XSECTN   010          1.0          10.41                           BOSSCS#4
 8                       0.           0.0          0.0
 8                       0.86         5.           4.39
 8                       2.01         50.          24.22
 8                       2.58         100.         40.12
 8                       3.46         200.         80.99
 8                       4.14         400.         129.44
 8                       5.16         800.         214.74
 8                       6.39         1600.        441.84
 8                       7.80         3200.        980.75
 8                       9.16         6400.        1891.44
 8                       10.41        12800.       3516.14
 8                       11.75        25600.       6548.98
 8                       13.26        51200.       11081.19
 9 ENDTBL
 2 XSECTN   020          1.0          7.3                             REACHC
 8                       0.           0.0          0.0
 8                       1.01         100.         57.78
 8                       1.49         200.         86.81
 8                       1.88         300.         110.25
 8                       2.49         500.         149.47
 8                       3.68         1000.        226.31
 8                       5.40         2000.        346.26
 8                       7.85         4000.        533.39
 8                       9.64         6000.        688.07
 8                       11.16        8000.        838.10
 8                       12.46        10000.       985.31
 8                       13.61        12000.       1122.03
 8                       14.56        14000.       1236.94
 8                       15.43        16000.       1345.18
 8                       16.31        18000.       1456.68
 9 ENDTBL
 2 XSECTN   025          1.0          7.3                             REACHB
 8                       0.           0.0          0.0
 8                       0.63         100.         80.89
```

```
8                       0.93        200.        120.32
8                       1.17        300.        151.77
8                       1.56        500.        203.28
8                       2.30        1000.       302.00
8                       3.38        2000.       449.24
8                       4.97        4000.       673.73
8                       6.23        6000.       855.96
8                       7.31        8000.       1016.35
8                       8.24        10000.      1158.51
8                       9.09        12000.      1293.31
8                       9.90        14000.      1425.57
8                       10.64       16000.      1549.17
8                       11.36       18000.      1673.11
9 ENDTBL
2 XSECTN   030          1.0         9.45                                BOSSCS#6
8                       0.          0.0         0.0
8                       0.77        5.          4.67
8                       1.54        50.         32.06
8                       1.78        100.        56.64
8                       2.10        200.        100.59
8                       2.50        400.        179.97
8                       3.01        800.        320.25
8                       3.63        1600.       589.66
8                       4.35        3200.       1110.72
8                       5.21        6400.       2084.48
8                       6.03        12800.      4119.83
8                       6.99        25600.      6856.75
8                       8.28        51200.      11085.87
9 ENDTBL
2 XSECTN   045          1.0         4.87                                REACHA
8                       0.          0.0         0.0
8                       0.60        100.        85.69
8                       0.90        200.        127.94
8                       1.13        300.        161.93
8                       1.52        500.        217.27
8                       2.25        1000.       324.03
8                       3.31        2000.       483.02
8                       4.87        4000.       722.17
8                       6.09        6000.       914.99
8                       7.15        8000.       1084.61
8                       8.05        10000.      1234.17
8                       8.87        12000.      1373.80
8                       9.64        14000.      1507.84
8                       10.34       16000.      1633.45
8                       11.00       18000.      1753.12
9 ENDTBL
2 XSECTN   060          1.0         4.7                                 2CP6CP7
8                       0.          0.0         0.0
8                       2.36        100.        45.12
8                       2.88        200.        83.75
8                       3.18        300.        114.33
8                       3.64        500.        172.72
8                       4.42        1000.       289.04
8                       5.40        2000.       470.72
8                       6.87        4000.       782.74
8                       7.91        6000.       1020.12
```

```
8                       8.79        8000.       1231.25
8                       9.60        10000.      1435.05
8                       10.26       12000.      1618.34
8                       10.94       14000.      1812.58
8                       11.47       16000.      1983.46
8                       11.96       18000.      2150.12
9 ENDTBL
2 XSECTN   067          1.0         8.77                                BOSSCS#5
8                       0.          0.0         0.0
8                       0.35        5.          5.56
8                       1.03        50.         30.95
8                       1.39        100.        52.16
8                       1.94        200.        88.72
8                       2.63        400.        148.61
8                       3.51        800.        260.63
8                       4.62        1600.       459.66
8                       6.04        3200.       929.36
8                       7.38        6400.       1811.51
8                       8.77        12800.      3374.20
8                       10.17       25600.      6398.87
8                       11.89       51200.      10982.51
9 ENDTBL
3 STRUCT      01                                                        95/11/6
8                       1178.0      0.0         0.
8                       1188.0      0.02        44.8
8                       1196.8      0.13        300.
8                       1199.2      0.21        500.
8                       1202.0      159.0       845.55
8                       1204.0      187.75      1176.28
8                       1206.0      214.9       1575.25
8                       1208.0      240.3       2044.97
8                       1210.0      265.4       2593.40
8                       1212.0      330.00      3218.00
8                       1213.0      2936.00     3556.67
8                       1214.0      8488.00     3916.02
8                       1215.0      15810.0     4294.13
8                       1216.0      24545.0     4692.68
8                       1217.0      34492.0     5113.19
8                       1218.0      45517.0     5556.01
8                       1219.0      57524.0     6021.50
8                       1220.0      70439.0     6509.75
9 ENDTBL
6 RUNOFF 1 001        1 2.46        87.2        0.85        1 1
6 REACH  3 005   1    7 9100.                               1           BOSS#6
6 REACH  3 010   7    2 9100.                               1           BOSS#4
6 RUNOFF 1 002        3 2.38        79.9        0.73        1 1
6 ADDHYD 4 012   2 3 1                                      1 1
6 DIVERT 6 012   1 4  7 4100.       1.00        200.        1 1         OLIVE
6 REACH  3 020   4    7 3332.                               1           REACH C
6 REACH  3 025   7    5 1950.                               1           REACH B
6 RUNOFF 1 003        6 3.94        87.2        0.88        1 1
6 REACH  3 030   6    7 8865.                               1           BOSS#6
6 REACH  3 005   7    1 8865.                               1           BOSS#5
6 REACH  3 025   1    7 1950.                               1           REACH B
6 RUNOFF 1 004        1 2.06        77.3        0.79        1 1
6 ADDHYD 4 034   7 1 2                                      1 1
```

```
**********************80-80 LIST OF INPUT DATA (CONTINUED)**********************

 6 ADDHYD 4 035   5 2 3                                    1 1
 6 DIVERT 6 035   3 4 7 11000.      1.00        199.       1 1          NORTHERN
 6 REACH  3 045   4   5 4200.                              1            REACH A
 6 RUNOFF 1 006       2 1.47        87.7        0.47       1 1
 6 REACH  3 060   2   3 7540.                              1            CP6CP7
 6 REACH  3 067   3   4 5140.                              1            BOSS#5
 6 ADDHYD 4 064   5 4 3                                    1 1
 6 RUNOFF 1 005       6 4.78        78.8        0.78       1 1
 6 RUNOFF 1 007       7 3.48        81.7        1.01       1 1
 6 ADDHYD 4 075   6 7 1                                    1 1
 6 ADDHYD 4 076   1 3 2                                    1 1      1
 6 RESVOR 2    01 2   1 1200.0                             1 1      1
 ENDATA
 7 LIST                 1.0                     1.
 7 INCREM 6             0.05
 7 COMPUT 7 001      01 0.          5.29        1.0        2 2  01  01
   ENDCMP 1
   ENDJOB 2

*********************************END OF 80-80 LIST*********************************
```

RUNOFF OPTION USED WITH RAINTABLE NO. 1, RUNOFF CURVE NO. = 100.

COMPUTED DIMHYD PEAK RATE FACTOR = 664.607

```
EXECUTIVE CONTROL  LIST ,          1.          0.          1.

          LISTING OF CURRENT DATA


                     COMPUTED TIME INCREMENT
DIMHYD                         .0556

                  .0000       .0300       .1000       .1900       .3100
                  .4700       .6600       .8200       .9300       .9900
                 1.0000       .9900       .9300       .8200       .6600
                  .4700       .3100       .0300       .0000       .0000
ENDTBL

   COMPUTED PEAK RATE FACTOR =  664.607
```

TABLE NO.	TIME INCREMENT
RAINFL 1	2.4000

.0000	.0024	.0048	.0073	.0097
.0121	.0148	.0174	.0201	.0228
.0254	.0284	.0314	.0344	.0374
.0404	.0437	.0471	.0505	.0539
.0572	.0612	.0651	.0690	.0729
.0768	.0815	.0862	.0909	.0955
.1002	.1061	.1120	.1179	.1238
.1297	.1377	.1458	.1538	.1618
.1699	.1832	.1966	.2099	.2232
.2366	.2548	.2778	.3093	.3614
1.0920	1.1740	1.2130	1.2400	1.2600
1.2760	1.2860	1.2960	1.3060	1.3160
1.3260	1.3330	1.3400	1.3470	1.3540
1.3600	1.3650	1.3710	1.3760	1.3810
1.3860	1.3910	1.3950	1.3990	1.4030
1.4080	1.4110	1.4150	1.4180	1.4220
1.4260	1.4290	1.4320	1.4350	1.4380
1.4420	1.4440	1.4470	1.4500	1.4530
1.4560	1.4580	1.4610	1.4630	1.4660
1.4680	1.4710	1.4730	1.4750	1.4770
1.4800	1.4800	1.4800	1.4800	1.4800

ENDTBL

STANDARD CONTROL INSTRUCTIONS

```
RUNOFF      1       1      2.4600     87.2000      .85001 1 0 0 0 1
REACH       5   1   7   9100.0000       .0000      .00001 0 0 0 0 1
REACH      10   7   2   9100.0000       .0000      .00001 0 0 0 0 1
RUNOFF      2       3      2.3800     79.9000      .73001 1 0 0 0 1
ADDHYD     12   2 3 1                                   1 1 0 0 0 1
DIVERT     12   1 4 7   4100.0000      1.0000   200.00001 1 0 0 0 1
REACH      20   4   7   3332.0000       .0000      .00001 0 0 0 0 1
REACH      25   7   5   1950.0000       .0000      .00001 0 0 0 0 1
RUNOFF      3       6      3.9400     87.2000      .88001 1 0 0 0 1
REACH      30   6   7   8865.0000       .0000      .00001 0 0 0 0 1
REACH       5   7   1   8865.0000       .0000      .00001 0 0 0 0 1
REACH      25   1   7   1950.0000       .0000      .00001 0 0 0 0 1
RUNOFF      4       1      2.0600     77.3000      .79001 1 0 0 0 1
ADDHYD     34   7 1 2                                   1 1 0 0 0 1
ADDHYD     35   5 2 3                                   1 1 0 0 0 1
DIVERT     35   3 4 7  11000.0000      1.0000   199.00001 1 0 0 0 1
REACH      45   4   5   4200.0000       .0000      .00001 0 0 0 0 1
RUNOFF      6       2      1.4700     87.7000      .47001 1 0 0 0 1
REACH      60   2   3   7540.0000       .0000      .00001 0 0 0 0 1
REACH      67   3   4   5140.0000       .0000      .00001 0 0 0 0 1
ADDHYD     64   5 4 3                                   1 1 0 0 0 1
RUNOFF      5       6      4.7800     78.8000      .78001 1 0 0 0 1
RUNOFF      7       7      3.4800     81.7000     1.01001 1 0 0 0 1
ADDHYD     75   6 7 1                                   1 1 0 0 0 1
ADDHYD     76   1 3 2                                   1 1 0 0 1 1
RESVOR        1 2   1   1200.0000                       1 1 0 0 1 1
ENDATA
```

END OF LISTING

EXECUTIVE CONTROL INCREM MAIN TIME INCREMENT = .050 HOURS

EXECUTIVE CONTROL COMPUT FROM XSECTION 1 TO STRUCTURE 1
STARTING TIME = .00 RAIN DEPTH = 5.29 RAIN DURATION = 1.00
ANT. RUNOFF COND. = 2 MAIN TIME INCREMENT = .050 HOURS
ALTERNATE NO. = 1 STORM NO. = 1 RAIN TABLE NO. = 2

OPERATION RUNOFF XSECTION 1

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
2.73	6068.9	(RUNOFF)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 1
MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = 2.46 SQ.MI.

HRS								
1.40 CFS	.38	.90	1.80	3.34	5.79	9.44	14.57	21.39
1.80 CFS	30	41	54	68	89	133	220	376
2.20 CFS	625	989	1482	2095	2794	3532	4250	4896
2.60 CFS	5428	5813	6029	6057	5897	5550	5028	4418
3.00 CFS	3813	3267	2823	2479	2223	2026	1855	1705
3.40 CFS	1580	1474	1380	1298	1230	1176	1129	1090
3.80 CFS	1059	1030	997	962	925	888	852	817
4.20 CFS	783	751	720	693	669	647	624	602
4.60 CFS	579	556	533	512	493	476	462	449
5.00 CFS	437	425	413	401	389	377	367	359
5.40 CFS	352	345	340	334	327	319	311	304
5.80 CFS	296	288	279	269	258	244	230	215
6.20 CFS	200	183	165	147	129	111	93	76
6.60 CFS	58.82	42.28	27.32	15.12	6.80	2.04	.17	

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
3.86 WATERSHED INCHES; 6135 CFS-HRS; 507.0 ACRE-FEET.

OPERATION REACH XSECTION 5

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
3.43	3247.9	6.06

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
3.86 WATERSHED INCHES; 6135 CFS-HRS; 507.0 ACRE-FEET.

OPERATION REACH XSECTION 10

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
4.17	2219.6	6.94

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
3.86 WATERSHED INCHES; 6135 CFS-HRS; 507.0 ACRE-FEET.

OPERATION RUNOFF XSECTION 2

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
2.67	4870.2	(RUNOFF)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 1
MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = 2.38 SQ.MI.

HRS								
1.85 CFS	0	1	2	6	29	91	221	448
2.25 CFS	797	1277	1868	2526	3192	3807	4315	4673
2.65 CFS	4852	4840	4630	4251	3777	3278	2827	2462
3.05 CFS	2183	1978	1811	1661	1529	1415	1313	1223
3.45 CFS	1147	1086	1038	1000	974	955	933	906
3.85 CFS	874	838	802	767	733	702	675	650
4.25 CFS	629	610	591	570	548	524	502	481
4.65 CFS	462	446	433	421	410	398	385	373
5.05 CFS	361	350	341	333	327	321	314	308
5.45 CFS	301	294	287	281	276	271	267	261
5.85 CFS	252	240	227	213	200	187	173	159
6.25 CFS	144	129	112	95	77	59	41	25
6.65 CFS	12.65	4.83	1.01	.08				

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
3.14 WATERSHED INCHES; 4819 CFS-HRS; 398.3 ACRE-FEET.

OPERATION ADDHYD XSECTION 12

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
2.67	4885.5	(NULL)
3.93	2955.2	(NULL)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 1
MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = 4.84 SQ.MI.

HRS								
1.85 CFS	0	1	2	6	29	92	221	448
2.25 CFS	798	1278	1869	2528	3195	3811	4321	4681
2.65 CFS	4865	4859	4660	4297	3847	3383	2979	2675
3.05 CFS	2472	2359	2297	2267	2265	2289	2330	2383
3.45 CFS	2447	2520	2596	2672	2749	2820	2877	2918
3.85 CFS	2943	2954	2955	2948	2934	2916	2894	2869
4.25 CFS	2841	2811	2777	2736	2691	2642	2591	2540
4.65 CFS	2489	2439	2389	2340	2290	2239	2187	2135
5.05 CFS	2082	2030	1980	1932	1885	1839	1792	1746
5.45 CFS	1700	1654	1609	1566	1524	1484	1444	1403
5.85 CFS	1361	1316	1270	1226	1182	1139	1097	1055
6.25 CFS	1014	972	930	889	847	805	765	727
6.65 CFS	693	665	640	620	600	581	562	543
7.05 CFS	524	506	488	470	452	435	417	400
7.45 CFS	383	367	351	336	320	306	292	278

7.85 CFS	265	252	240	228	217	206	195	185
8.25 CFS	176	167	158	150	142	134	127	120
8.65 CFS	114	108	102	96	91	86	81	76
9.05 CFS	72.20	68.13	64.28	60.63	57.17	53.90	50.81	47.88
9.45 CFS	45.12	42.50	40.03	37.70	35.50	33.42	31.45	29.60
9.85 CFS	27.85	26.21	24.65	23.19	21.80	20.50	19.27	18.12
10.25 CFS	17.03	16.00	15.04	14.13	13.27	12.47	11.71	11.00
10.65 CFS	10.33	9.70	9.10	8.55	8.02	7.53	7.06	6.63
11.05 CFS	6.22	5.83	5.47	5.13	4.81	4.51	4.23	3.97
11.45 CFS	3.72	3.49	3.27	3.06	2.87	2.69	2.52	2.36
11.85 CFS	2.21	2.07	1.94	1.82	1.70	1.60	1.49	1.40
12.25 CFS	1.31	1.23	1.15	1.07	1.00	.94	.88	.82
12.65 CFS	.77	.72	.67	.63	.58	.55	.51	.48

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
3.51 WATERSHED INCHES; 10955 CFS-HRS; 905.3 ACRE-FEET.

OPERATION DIVERT XSECTION 12
OUTPUT #1 HYDROGRAPH

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
2.55	4100.0 *	(DIVERT)
3.93	2955.2	(DIVERT)

* FIRST POINT OF FLAT PEAK

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 1
MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = 4.84 SQ.MI.

HRS								
1.85 CFS	0	1	2	6	29	92	221	448
2.25 CFS	798	1278	1869	2528	3195	3811	4100	4100
2.65 CFS	4100	4100	4100	4100	3847	3383	2979	2675
3.05 CFS	2472	2359	2297	2267	2265	2289	2330	2383
3.45 CFS	2447	2520	2596	2672	2749	2820	2877	2918
3.85 CFS	2943	2954	2955	2948	2934	2916	2894	2869
4.25 CFS	2841	2811	2777	2736	2691	2642	2591	2540
4.65 CFS	2489	2439	2389	2340	2290	2239	2187	2135
5.05 CFS	2082	2030	1980	1932	1885	1839	1792	1746
5.45 CFS	1700	1654	1609	1566	1524	1484	1444	1403
5.85 CFS	1361	1316	1270	1226	1182	1139	1097	1055
6.25 CFS	1014	972	930	889	847	805	765	727
6.65 CFS	693	665	640	620	600	581	562	543
7.05 CFS	524	506	488	470	452	435	417	400
7.45 CFS	383	367	351	336	320	306	292	278
7.85 CFS	265	252	240	228	217	206	195	185
8.25 CFS	176	167	158	150	142	134	127	120
8.65 CFS	114	108	102	96	91	86	81	76
9.05 CFS	72.20	68.13	64.28	60.63	57.17	53.90	50.81	47.88
9.45 CFS	45.12	42.50	40.03	37.70	35.50	33.42	31.45	29.60
9.85 CFS	27.85	26.21	24.65	23.19	21.80	20.50	19.27	18.12
10.25 CFS	17.03	16.00	15.04	14.13	13.27	12.47	11.71	11.00

10.65 CFS	10.33	9.70	9.10	8.55	8.02	7.53	7.06	6.63
11.05 CFS	6.22	5.83	5.47	5.13	4.81	4.51	4.23	3.97
11.45 CFS	3.72	3.49	3.27	3.06	2.87	2.69	2.52	2.36
11.85 CFS	2.21	2.07	1.94	1.82	1.70	1.60	1.49	1.40
12.25 CFS	1.31	1.23	1.15	1.07	1.00	.94	.88	.82
12.65 CFS	.77	.72	.67	.63	.58	.55	.51	.48

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
3.46 WATERSHED INCHES; 10800 CFS-HRS; 892.5 ACRE-FEET.

OUTPUT #2 DIVERTED HYDROGRAPH (XSECTION 200)

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
2.67	785.5	(DIVERT)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 1
MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = .00 SQ.MI.

HRS							
2.50 CFS	.00	221.36	581.09	764.64	758.73	559.77	197.17	.00

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
154 CFS-HRS; 12.8 ACRE-FEET.

OPERATION REACH XSECTION 20

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
2.83	4096.1	7.94
4.04	2944.7	6.56

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
3.46 WATERSHED INCHES; 10800 CFS-HRS; 892.6 ACRE-FEET.

OPERATION REACH XSECTION 25

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
2.89	4072.1	5.02
4.12	2940.8	4.13

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
3.46 WATERSHED INCHES; 10800 CFS-HRS; 892.5 ACRE-FEET.

OPERATION RUNOFF XSECTION 3

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
2.75	9534.2	(RUNOFF)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 1
MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = 3.94 SQ.MI.

HRS								
1.35 CFS	.17	.54	1.29	2.58	4.79	8.33	13.66	21.20
1.75 CFS	31	44	60	80	102	129	189	316

2.15 CFS	543	907	1438	2165	3078	4133	5262	6382
2.55 CFS	7406	8277	8942	9371	9533	9411	9018	8352
2.95 CFS	7462	6517	5606	4823	4199	3718	3366	3077
3.35 CFS	2824	2608	2430	2274	2136	2018	1922	1841
3.75 CFS	1771	1712	1662	1613	1559	1503	1444	1386
4.15 CFS	1330	1276	1223	1172	1125	1083	1047	1012
4.55 CFS	977	941	905	869	834	801	772	747
4.95 CFS	726	706	688	669	650	631	612	594
5.35 CFS	579	567	556	547	538	528	516	503
5.75 CFS	491	478	464	450	435	418	398	377
6.15 CFS	353	328	302	274	244	215	187	159
6.55 CFS	132	105	79	55	34	18	7	2
6.95 CFS	.15							

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
3.86 WATERSHED INCHES; 9821 CFS-HRS; 811.6 ACRE-FEET.

OPERATION REACH XSECTION 30

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
3.52	4905.6	4.81

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
3.86 WATERSHED INCHES; 9821 CFS-HRS; 811.6 ACRE-FEET.

OPERATION REACH XSECTION 5

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
4.20	3529.7	6.18

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
3.86 WATERSHED INCHES; 9821 CFS-HRS; 811.6 ACRE-FEET.

OPERATION REACH XSECTION 25

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
4.28	3524.8	4.59

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
3.86 WATERSHED INCHES; 9821 CFS-HRS; 811.6 ACRE-FEET.

OPERATION RUNOFF XSECTION 4

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
2.73	3682.2	(RUNOFF)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 1
MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = 2.06 SQ.MI.

HRS								
2.00 CFS	0	9	39	106	232	434	727	1107
2.40 CFS	1556	2039	2512	2941	3286	3533	3665	3669
2.80 CFS	3550	3281	2962	2585	2243	1967	1739	1589
3.20 CFS	1456	1339	1232	1146	1069	1000	940	894
3.60 CFS	855	824	799	783	764	741	715	687
4.00 CFS	658	631	605	580	558	536	517	501
4.40 CFS	485	468	451	433	415	398	383	369
4.80 CFS	357	347	338	328	319	310	301	291
5.20 CFS	283	276	270	265	260	256	251	245
5.60 CFS	240	234	230	225	219	214	207	197
6.00 CFS	186	176	165	153	141	129	115	102
6.40 CFS	88.30	74.72	60.71	46.48	32.85	20.33	10.56	4.37
6.80 CFS	.83	.05						

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
2.89 WATERSHED INCHES; 3849 CFS-HRS; 318.0 ACRE-FEET.

OPERATION ADDHYD XSECTION 34

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
2.73	3701.1	(NULL)
4.17	4072.2	(NULL)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 1
MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = 6.00 SQ.MI.

HRS								
2.00 CFS	0	9	39	106	232	434	728	1108
2.40 CFS	1558	2041	2516	2946	3293	3543	3680	3692
2.80 CFS	3585	3336	3046	2710	2428	2229	2100	2073
3.20 CFS	2085	2135	2214	2331	2468	2620	2782	2954
3.60 CFS	3124	3287	3441	3587	3712	3815	3898	3961
4.00 CFS	4009	4042	4063	4071	4070	4060	4041	4017
4.40 CFS	3985	3945	3899	3846	3789	3728	3665	3601
4.80 CFS	3535	3469	3401	3332	3262	3190	3118	3044
5.20 CFS	2972	2901	2831	2761	2693	2625	2557	2489
5.60 CFS	2422	2357	2292	2229	2167	2105	2043	1980
6.00 CFS	1917	1855	1794	1734	1675	1617	1559	1503
6.40 CFS	1447	1393	1340	1287	1237	1188	1143	1103
6.80 CFS	1066	1032	1000	968	937	907	877	847
7.20 CFS	817	788	759	731	703	675	648	621
7.60 CFS	595	569	544	520	496	474	452	430
8.00 CFS	410	390	371	353	335	319	303	287
8.40 CFS	273	258	245	232	220	208	197	187
8.80 CFS	177	167	158	149	141	133	126	119
9.20 CFS	112	106	100	95	89	84	79	75
9.60 CFS	70.57	66.52	62.69	59.08	55.66	52.43	49.38	46.50
10.00 CFS	43.78	41.22	38.80	36.52	34.37	32.34	30.42	28.62
10.40 CFS	26.92	25.32	23.81	22.39	21.05	19.79	18.60	17.48
10.80 CFS	16.43	15.44	14.50	13.63	12.80	12.02	11.29	10.61
11.20 CFS	9.96	9.35	8.78	8.24	7.74	7.26	6.82	6.40

11.60 CFS	6.01	5.64	5.29	4.96	4.65	4.36	4.09	3.84
12.00 CFS	3.60	3.38	3.17	2.97	2.78	2.61	2.45	2.29
12.40 CFS	2.15	2.02	1.89	1.77	1.66	1.55	1.46	1.36
12.80 CFS	1.28	1.20	1.12	1.05	.98	.92	.86	.81
13.20 CFS	.75	.71	.66	.62	.58	.54	.50	.47

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
3.53 WATERSHED INCHES; 13670 CFS-HRS; 1129.6 ACRE-FEET.

OPERATION ADDHYD XSECTION 35

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
2.77	7598.9	(NULL)
4.15	7011.1	(NULL)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 1
MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = 10.84 SQ.MI.

HRS								
2.00 CFS	0	10	42	117	271	536	953	1540
2.40 CFS	2300	3202	4192	5205	6156	6913	7375	7575
2.80 CFS	7572	7377	7116	6713	6218	5720	5275	4964
3.20 CFS	4754	4644	4617	4670	4780	4933	5118	5330
3.60 CFS	5553	5780	6003	6221	6419	6590	6731	6840
4.00 CFS	6920	6973	7002	7011	7002	6978	6941	6895
4.40 CFS	6837	6769	6689	6598	6499	6393	6281	6167
4.80 CFS	6051	5936	5818	5699	5579	5456	5332	5207
5.20 CFS	5083	4961	4840	4722	4605	4490	4376	4261
5.60 CFS	4148	4037	3927	3821	3715	3612	3509	3404
6.00 CFS	3299	3193	3089	2985	2882	2781	2680	2582
6.40 CFS	2484	2388	2293	2199	2106	2016	1931	1853
6.80 CFS	1782	1718	1659	1603	1551	1499	1450	1401
7.20 CFS	1352	1305	1257	1211	1165	1119	1075	1031
7.60 CFS	988	945	904	864	826	788	752	716
8.00 CFS	682	650	618	588	559	531	504	479
8.40 CFS	454	431	408	387	367	347	329	311
8.80 CFS	295	279	263	249	235	222	210	198
9.20 CFS	187	177	167	157	149	140	132	125
9.60 CFS	117	111	104	98	93	87	82	77
10.00 CFS	72.74	68.46	64.43	60.63	57.04	53.66	50.47	47.47
10.40 CFS	44.64	41.97	39.46	37.09	34.86	32.76	30.79	28.93
10.80 CFS	27.18	25.53	23.98	22.52	21.15	19.86	18.65	17.51
11.20 CFS	16.44	15.43	14.48	13.59	12.75	11.97	11.23	10.53
11.60 CFS	9.88	9.27	8.69	8.15	7.65	7.17	6.72	6.30
12.00 CFS	5.91	5.54	5.19	4.86	4.56	4.27	4.00	3.75
12.40 CFS	3.51	3.29	3.08	2.89	2.70	2.53	2.37	2.22
12.80 CFS	2.08	1.94	1.82	1.70	1.59	1.49	1.39	1.30
13.20 CFS	1.22	1.14	1.07	1.00	.93	.87	.81	.76
13.60 CFS	.71	.66	.62	.58	.54	.50	.47	

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
3.50 WATERSHED INCHES; 24470 CFS-HRS; 2022.2 ACRE-FEET.

OPERATION DIVERT XSECTION 35
OUTPUT #1 HYDROGRAPH

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
2.77	7598.9	(DIVERT)
4.15	7011.1	(DIVERT)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 1
MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = 10.84 SQ.MI.

HRS								
2.00 CFS	0	10	42	117	271	536	953	1540
2.40 CFS	2300	3202	4192	5205	6156	6913	7375	7575
2.80 CFS	7572	7377	7116	6713	6218	5720	5275	4964
3.20 CFS	4754	4644	4617	4670	4780	4933	5118	5330
3.60 CFS	5553	5780	6003	6221	6419	6590	6731	6840
4.00 CFS	6920	6973	7002	7011	7002	6978	6941	6895
4.40 CFS	6837	6769	6689	6598	6499	6393	6281	6167
4.80 CFS	6051	5936	5818	5699	5579	5456	5332	5207
5.20 CFS	5083	4961	4840	4722	4605	4490	4376	4261
5.60 CFS	4148	4037	3927	3821	3715	3612	3509	3404
6.00 CFS	3299	3193	3089	2985	2882	2781	2680	2582
6.40 CFS	2484	2388	2293	2199	2106	2016	1931	1853
6.80 CFS	1782	1718	1659	1603	1551	1499	1450	1401
7.20 CFS	1352	1305	1257	1211	1165	1119	1075	1031
7.60 CFS	988	945	904	864	826	788	752	716
8.00 CFS	682	650	618	588	559	531	504	479
8.40 CFS	454	431	408	387	367	347	329	311
8.80 CFS	295	279	263	249	235	222	210	198
9.20 CFS	187	177	167	157	149	140	132	125
9.60 CFS	117	111	104	98	93	87	82	77
10.00 CFS	72.74	68.46	64.43	60.63	57.04	53.66	50.47	47.47
10.40 CFS	44.64	41.97	39.46	37.09	34.86	32.76	30.79	28.93
10.80 CFS	27.18	25.53	23.98	22.52	21.15	19.86	18.65	17.51
11.20 CFS	16.44	15.43	14.48	13.59	12.75	11.97	11.23	10.53
11.60 CFS	9.88	9.27	8.69	8.15	7.65	7.17	6.72	6.30
12.00 CFS	5.91	5.54	5.19	4.86	4.56	4.27	4.00	3.75
12.40 CFS	3.51	3.29	3.08	2.89	2.70	2.53	2.37	2.22
12.80 CFS	2.08	1.94	1.82	1.70	1.59	1.49	1.39	1.30
13.20 CFS	1.22	1.14	1.07	1.00	.93	.87	.81	.76
13.60 CFS	.71	.66	.62	.58	.54	.50	.47	

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
3.50 WATERSHED INCHES; 24470 CFS-HRS; 2022.2 ACRE-FEET.

OUTPUT #2 DIVERTED HYDROGRAPH (XSECTION 199)

*** MESSAGE - HYDROGRAPH CONTAINS NO FLOW ***

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
290 CFS-HRS; 2022.2 ACRE-FEET.

OPERATION REACH XSECTION 45

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
2.90	7266.0	6.76
4.28	6977.0	6.61

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
3.50 WATERSHED INCHES; 24470 CFS-HRS; 2022.2 ACRE-FEET.

OPERATION RUNOFF XSECTION 6

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
2.46	4856.9	(RUNOFF)
5.09	226.3	(RUNOFF)
5.57	187.7	(RUNOFF)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 1
MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = 1.47 SQ.MI.

HRS								
1.30 CFS	.24	.82	2.05	4.20	7.48	12.11	18.24	26.19
1.70 CFS	36	48	60	74	87	101	127	210
2.10 CFS	411	805	1429	2243	3142	3979	4594	4853
2.50 CFS	4707	4245	3630	3001	2459	2052	1779	1595
2.90 CFS	1449	1327	1229	1139	1044	949	865	793
3.30 CFS	734	694	677	671	668	662	651	632
3.70 CFS	606	574	537	501	471	450	440	437
4.10 CFS	434	426	411	390	365	340	320	306
4.50 CFS	300	298	296	292	283	269	253	239
4.90 CFS	229	224	223	225	226	224	215	204
5.30 CFS	195	187	182	181	184	187	187	183
5.70 CFS	175	164	151	137	124	116	111	109
6.10 CFS	105	97	84	67	47	28	13	5
6.50 CFS	.79	.00						

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
3.90 WATERSHED INCHES; 3697 CFS-HRS; 305.5 ACRE-FEET.

OPERATION REACH XSECTION 60

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
2.76	3219.0	6.30

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
3.90 WATERSHED INCHES; 3697 CFS-HRS; 305.5 ACRE-FEET.

OPERATION REACH XSECTION 67

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
3.09	2291.6	5.23

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
3.90 WATERSHED INCHES; 3697 CFS-HRS; 305.5 ACRE-FEET.

OPERATION ADDHYD XSECTION 64

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
2.94	9381.6	(NULL)
4.16	7845.9	(NULL)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 1
MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = 12.31 SQ.MI.

HRS								
1.70 CFS	.48	.93	1.63	2.68	4.18	6.23	8.94	12.46
2.10 CFS	21	41	88	184	361	657	1109	1744
2.50 CFS	2568	3560	4675	5844	6957	7902	8618	9094
2.90 CFS	9328	9377	9243	8953	8563	8130	7723	7369
3.30 CFS	7085	6874	6737	6667	6652	6685	6756	6858
3.70 CFS	6981	7116	7258	7398	7527	7638	7726	7790
4.10 CFS	7829	7845	7840	7817	7778	7726	7663	7590
4.50 CFS	7507	7413	7310	7198	7078	6952	6822	6691
4.90 CFS	6558	6425	6290	6155	6019	5881	5743	5606
5.30 CFS	5470	5336	5205	5075	4948	4822	4698	4575
5.70 CFS	4453	4334	4218	4104	3992	3881	3771	3659
6.10 CFS	3548	3436	3324	3214	3104	2996	2888	2782
6.50 CFS	2676	2571	2467	2363	2261	2162	2068	1980
6.90 CFS	1899	1824	1755	1690	1629	1570	1514	1459
7.30 CFS	1406	1354	1303	1253	1204	1156	1109	1063
7.70 CFS	1018	974	931	890	850	811	773	737
8.10 CFS	702	668	635	604	574	546	518	492
8.50 CFS	467	443	420	398	377	357	338	320
8.90 CFS	303	286	271	256	242	229	216	204
9.30 CFS	193	182	172	162	153	144	136	128
9.70 CFS	121	114	107	101	95	90	85	80
10.10 CFS	74.92	70.52	66.37	62.46	58.77	55.28	52.01	48.91
10.50 CFS	46.00	43.26	40.67	38.23	35.94	33.78	31.74	29.83
10.90 CFS	28.02	26.33	24.73	23.23	21.82	20.49	19.24	18.06
11.30 CFS	16.96	15.92	14.94	14.02	13.16	12.35	11.59	10.87
11.70 CFS	10.20	9.57	8.97	8.42	7.89	7.40	6.94	6.51
12.10 CFS	6.10	5.72	5.36	5.02	4.71	4.41	4.13	3.87
12.50 CFS	3.63	3.40	3.18	2.98	2.79	2.61	2.45	2.29
12.90 CFS	2.15	2.01	1.88	1.76	1.64	1.54	1.44	1.35
13.30 CFS	1.26	1.18	1.10	1.03	.96	.90	.84	.78
13.70 CFS	.73	.68	.64	.60	.56	.52	.48	

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
3.55 WATERSHED INCHES; 28167 CFS-HRS; 2327.7 ACRE-FEET.

OPERATION RUNOFF XSECTION 5

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
2.71	9115.0	(RUNOFF)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 1
MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = 4.78 SQ.MI.

HRS								
1.90 CFS	0	1	3	31	119	307	649	1190
2.30 CFS	1963	2948	4089	5296	6462	7496	8309	8858
2.70 CFS	9104	9027	8618	7898	7043	6122	5308	4646
3.10 CFS	4133	3764	3449	3167	2921	2713	2529	2365
3.50 CFS	2228	2117	2028	1954	1900	1858	1811	1756
3.90 CFS	1692	1624	1557	1492	1430	1371	1318	1268
4.30 CFS	1225	1186	1147	1107	1065	1022	980	939
4.70 CFS	903	872	845	821	798	776	754	731
5.10 CFS	709	687	668	653	639	627	615	605
5.50 CFS	593	579	565	553	542	531	519	506
5.90 CFS	487	463	438	412	386	359	331	301
6.30 CFS	270	238	206	173	139	106	73	44
6.70 CFS	22.37	8.57	1.72	.11				

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
3.03 WATERSHED INCHES; 9358 CFS-HRS; 773.3 ACRE-FEET.

OPERATION RUNOFF XSECTION 7

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
2.87	6426.6	(RUNOFF)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 1
MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = 3.48 SQ.MI.

HRS								
1.75 CFS	.23	.62	1.37	2.66	4.70	10.12	30.46	80.52
2.15 CFS	178	340	584	923	1365	1908	2533	3209
2.55 CFS	3895	4547	5132	5626	6013	6281	6414	6401
2.95 CFS	6242	5940	5483	4945	4368	3819	3353	2969
3.35 CFS	2679	2455	2265	2101	1964	1847	1743	1650
3.75 CFS	1571	1503	1443	1388	1342	1302	1261	1219
4.15 CFS	1176	1131	1087	1044	1000	959	920	884
4.55 CFS	853	825	799	772	744	716	687	660
4.95 CFS	636	615	597	581	567	553	538	523
5.35 CFS	507	492	479	469	460	453	445	437
5.75 CFS	427	416	404	391	378	365	353	339
6.15 CFS	323	305	285	263	240	216	191	167
6.55 CFS	144	123	102	83	64	47	31	18
6.95 CFS	8.82	3.09	.53	.07				

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
3.31 WATERSHED INCHES; 7431 CFS-HRS; 614.1 ACRE-FEET.

OPERATION ADDHYD XSECTION 75

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
2.76	15047.8	(NULL)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 1
MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = 8.26 SQ.MI.

HRS								
1.75 CFS	0	1	1	3	5	13	62	199
2.15 CFS	485	989	1774	2886	4313	5997	7829	9671
2.55 CFS	11390	12855	13990	14730	15040	14899	14312	13444
2.95 CFS	12364	11248	10129	9079	8132	7268	6520	5890
3.35 CFS	5392	4984	4630	4329	4081	3875	3697	3551
3.75 CFS	3429	3315	3198	3081	2967	2859	2753	2649
4.15 CFS	2547	2449	2356	2268	2187	2106	2027	1948
4.55 CFS	1875	1805	1738	1675	1616	1560	1508	1458
4.95 CFS	1412	1368	1328	1290	1254	1221	1191	1162
5.35 CFS	1134	1107	1084	1062	1039	1018	999	980
5.75 CFS	959	934	909	879	842	803	765	725
6.15 CFS	683	636	586	533	478	422	364	306
6.55 CFS	250	196	146	105	73	49	31	18
6.95 CFS	8.82	3.09	.53	.07				

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
3.15 WATERSHED INCHES; 16789 CFS-HRS; 1387.5 ACRE-FEET.

OPERATION ADDHYD XSECTION 76

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
2.82	23556.0	(NULL)
3.91	10608.3	(NULL)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 1
MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = 20.57 SQ.MI.

HRS								
1.65 CFS	.24	.55	1.16	2.24	4.10	7.08	11.68	22.22
2.05 CFS	74	220	526	1077	1958	3246	4970	7106
2.45 CFS	9573	12239	14950	17530	19834	21687	22941	23517
2.85 CFS	23405	22772	21741	20491	19082	17642	16262	14990
3.25 CFS	13888	12975	12266	11722	11296	10981	10766	10631
3.65 CFS	10556	10531	10545	10573	10597	10608	10605	10585
4.05 CFS	10543	10478	10392	10289	10172	10046	9912	9769
4.45 CFS	9617	9455	9288	9115	8936	8752	8568	8383
4.85 CFS	8199	8016	7836	7659	7483	7309	7135	6964
5.25 CFS	6797	6632	6470	6312	6159	6010	5861	5716
5.65 CFS	5573	5433	5293	5152	5013	4870	4723	4574
6.05 CFS	4424	4273	4118	3961	3800	3637	3474	3310
6.45 CFS	3146	2982	2821	2662	2509	2366	2235	2117
6.85 CFS	2011	1917	1833	1758	1690	1629	1570	1514

7.25 CFS	1459	1406	1354	1303	1253	1204	1156	1109
7.65 CFS	1063	1018	974	931	890	850	811	773
8.05 CFS	737	702	668	635	604	574	546	518
8.45 CFS	492	467	443	420	398	377	357	338
8.85 CFS	320	303	286	271	256	242	229	216
9.25 CFS	204	193	182	172	162	153	144	136
9.65 CFS	128	121	114	107	101	95	90	85
10.05 CFS	79.58	74.92	70.52	66.37	62.46	58.77	55.28	52.01
10.45 CFS	48.91	46.00	43.26	40.67	38.23	35.94	33.78	31.74
10.85 CFS	29.83	28.02	26.33	24.73	23.23	21.82	20.49	19.24
11.25 CFS	18.06	16.96	15.92	14.94	14.02	13.16	12.35	11.59
11.65 CFS	10.87	10.20	9.57	8.97	8.42	7.89	7.40	6.94
12.05 CFS	6.51	6.10	5.72	5.36	5.02	4.71	4.41	4.13
12.45 CFS	3.87	3.63	3.40	3.18	2.98	2.79	2.61	2.45
12.85 CFS	2.29	2.15	2.01	1.88	1.76	1.64	1.54	1.44
13.25 CFS	1.35	1.26	1.18	1.10	1.03	.96	.90	.84
13.65 CFS	.78	.73	.68	.64	.60	.56	.52	.48

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
3.39 WATERSHED INCHES; 44956 CFS-HRS; 3715.2 ACRE-FEET.

--- XSECTION 76, ALTERNATE 1, STORM 1, HYDROGRAPH ADDED TO READHD FILE ---

*** MESSAGE - STRUCTURE 1, USER ENTERED STARTING ELEVATION (1200.0 FEET) CAN ADD .546 INCHES OF RUNOFF TO THE OUTFLOW HYDROGRAPH VOLUME.***

*** MESSAGE - RESERVOIR ROUTING, STRUCTURE 1, TRUNCATED AT 400 POINTS WITH 2960.46 AC-FT (.22 WATERSHED INCHES) FLOOD STORAGE REMAINING IN RESERVOIR AT ELEV. 1211.18. ***

OPERATION RESVOR STRUCTURE 1

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
1.30	45.6	1200.00
6.22	3912.0	1213.18

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 1
MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = 20.57 SQ.MI.

HRS								
1.30 CFS	45.58	45.49	45.41	45.32	45.24	45.15	45.06	44.98
1.70 CFS	44.89	44.81	44.73	44.65	44.58	44.51	44.46	44.46
2.10 CFS	44.66	45.28	46.72	49.51	54.35	62.04	73.38	89.06
2.50 CFS	110	135	160	167	174	182	190	196
2.90 CFS	203	209	215	219	223	227	231	234
3.30 CFS	237	239	242	244	246	248	250	252
3.70 CFS	254	256	258	260	262	264	266	270
4.10 CFS	275	279	283	288	292	296	300	304
4.50 CFS	308	312	316	319	323	327	330	579
4.90 CFS	815	1037	1247	1445	1632	1807	1971	2124
5.30 CFS	2268	2402	2527	2643	2751	2850	2949	3115
5.70 CFS	3263	3393	3506	3604	3686	3755	3810	3853

6.10 CFS	3884	3903	3911	3910	3898	3877	3847	3808
6.50 CFS	3762	3709	3649	3583	3512	3438	3359	3279
6.90 CFS	3198	3116	3034	2953	2904	2863	2822	2780
7.30 CFS	2738	2696	2653	2610	2566	2523	2480	2436
7.70 CFS	2392	2349	2305	2261	2218	2174	2131	2088
8.10 CFS	2045	2002	1960	1918	1877	1835	1795	1754
8.50 CFS	1714	1675	1636	1598	1560	1522	1486	1449
8.90 CFS	1414	1379	1344	1311	1277	1245	1213	1181
9.30 CFS	1151	1120	1091	1062	1034	1006	979	952
9.70 CFS	926	901	876	852	829	806	783	761
10.10 CFS	740	719	698	679	659	640	622	604
10.50 CFS	587	570	553	537	522	506	491	477
10.90 CFS	463	449	436	423	411	398	387	375
11.30 CFS	364	353	342	332	330	330	330	329
11.70 CFS	329	329	329	329	329	329	329	328
12.10 CFS	328	328	328	328	328	328	327	327
12.50 CFS	327	327	327	327	327	326	326	326
12.90 CFS	326	326	326	326	325	325	325	325
13.30 CFS	325	325	325	325	324	324	324	324
13.70 CFS	324	324	324	323	323	323	323	323
14.10 CFS	323	323	322	322	322	322	322	322
14.50 CFS	322	321	321	321	321	321	321	321
14.90 CFS	321	320	320	320	320	320	320	320
15.30 CFS	319	319	319	319	319	319	319	318
15.70 CFS	318	318	318	318	318	318	318	317
16.10 CFS	317	317	317	317	317	317	316	316
16.50 CFS	316	316	316	316	316	316	315	315
16.90 CFS	315	315	315	315	315	314	314	314
17.30 CFS	314	314	314	314	313	313	313	313
17.70 CFS	313	313	313	313	312	312	312	312
18.10 CFS	312	312	312	311	311	311	311	311
18.50 CFS	311	311	311	310	310	310	310	310
18.90 CFS	310	310	309	309	309	309	309	309
19.30 CFS	309	309	308	308	308	308	308	308
19.70 CFS	308	308	307	307	307	307	307	307
20.10 CFS	307	306	306	306	306	306	306	306
20.50 CFS	306	305	305	305	305	305	305	305
20.90 CFS	305	304	304	304	304	304	304	304

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
1.23 WATERSHED INCHES; 16354 CFS-HRS; 1351.5 ACRE-FEET.

--- STRUCTURE 1, ALTERNATE 1, STORM 1, HYDROGRAPH ADDED TO READHD FILE ---

EXECUTIVE CONTROL ENDCMP COMPUTATIONS COMPLETED FOR PASS 1

SUMMARY TABLE 1

SELECTED RESULTS OF STANDARD AND EXECUTIVE CONTROL IN ORDER PERFORMED.
A CHARACTER FOLLOWING THE PEAK DISCHARGE TIME AND RATE (CFS) INDICATES:
F-FLAT TOP HYDROGRAPH T-TRUNCATED HYDROGRAPH R-RISING TRUNCATED HYDROGRAPH

RAINFALL OF 5.29 inches AND 6.00 hr DURATION, BEGINS AT .0 hrs.
RAINTABLE NUMBER 2, ARC 2'
MAIN TIME INCREMENT .050 HOURS

ALTERNATE 1 STORM 1

XSECTION/ STRUCTURE ID	STANDARD CONTROL OPERATION	DRAINAGE AREA (SQ MI)	RUNOFF AMOUNT (IN)	PEAK DISCHARGE ELEVATION (FT)	TIME (HR)	RATE (CFS)	RATE (CSM)
XSECTION 1	RUNOFF	2.46	3.86	---	2.73	6069	2467.1
XSECTION 5	REACH	2.46	3.86	6.06	3.43	3248	1320.3
XSECTION 10	REACH	2.46	3.86	6.94	4.17	2220	902.4
XSECTION 2	RUNOFF	2.38	3.14	---	2.67	4870	2046.2
XSECTION 12	ADDHYD	4.84	3.51	---	2.67	4885	1009.3
XSECTION 12	DIVERT	4.84	3.46	---	2.55F	4100F	847.1
XSECTION 200	DIVERT	.00	3.46	---	2.67	785	********
XSECTION 20	REACH	4.84	3.46	7.94	2.83	4096	846.3
XSECTION 25	REACH	4.84	3.46	5.02	2.89	4072	841.3
XSECTION 3	RUNOFF	3.94	3.86	---	2.75	9534	2419.8
XSECTION 30	REACH	3.94	3.86	4.81	3.52	4906	1245.2
XSECTION 5	REACH	3.94	3.86	6.18	4.20	3530	895.9
XSECTION 25	REACH	3.94	3.86	4.59	4.28	3525	894.7
XSECTION 4	RUNOFF	2.06	2.89	---	2.73	3682	1787.4
XSECTION 34	ADDHYD	6.00	3.53	---	4.17	4072	678.7
XSECTION 35	ADDHYD	10.84	3.50	---	2.77	7599	701.0
XSECTION 35	DIVERT	10.84	3.50	---	2.77	7599	701.0
XSECTION 199	DIVERT	.00	3.50	---	.00	0	********
XSECTION 45	REACH	10.84	3.50	6.76	2.90	7266	670.3
XSECTION 6	RUNOFF	1.47	3.90	---	2.46	4857	3304.1
XSECTION 60	REACH	1.47	3.90	6.30	2.76	3219	2189.8
XSECTION 67	REACH	1.47	3.90	5.23	3.09	2292	1559.2
XSECTION 64	ADDHYD	12.31	3.55	---	2.94	9382	762.1
XSECTION 5	RUNOFF	4.78	3.03	---	2.71	9115	1906.9
XSECTION 7	RUNOFF	3.48	3.31	---	2.87	6427	1846.8
XSECTION 75	ADDHYD	8.26	3.15	---	2.76	15048	1821.8
XSECTION 76	ADDHYD	20.57	3.39	---	2.82	23556	1145.2
STRUCTURE 1	RESVOR	20.57	1.23	1213.18	6.22	3912	190.2

SUMMARY TABLE 2

MODIFIED ATT-KIN REACH ROUTING IN ORDER PERFORMED.
QUESTION MARK (?) AFTER: OUTFLOW PEAK - MAX. NUMBER ROUTING ITERATIONS USED;
LENGTH FACTOR - VALUE k* GREATER THAN 1.0;
ATT-KIN COEFF - VALUE C GREATER THAN 0.667.

			HYDROGRAPH INFORMATION				ROUTING PARAMETERS				
		FLOOD	INFLOW		OUTFLOW		Q-A EQ.			PEAK	ATT-
XSEC ID	REACH LENGTH (FT)	PLAIN LENGTH (FT)	PEAK (CFS)	TIME (HR)	PEAK (CFS)	TIME (HR)	COEFF (X)	POWER (M)	LENGTH FACTOR (k*)	RATIO Q/I (Q*)	KIN COEFF (C)
BASEFLOW IS .0 CFS											
ALTERNATE 1 STORM 1											
5	9100		6057	2.8	3245	3.5	1.92	1.08	.688	.536	.07
10	9100		3245	3.5	2219	4.2	2.40	1.05	.372	.684	.07
20	3332		4100	2.5	4086	2.8	.14	1.63	.007	.997	.50
25	1950		4086	2.8	4070	2.9	.052	1.73	.003	.996	.65
30	8865		9533	2.8	4901	3.5	1.53	1.09	.756	.514	.07
5	8865		4901	3.5	3530	4.2	1.77	1.09	.318	.720	.07
25	1950		3530	4.2	3524	4.3	.051	1.73	.003	.998	.62
45	4200		7575	2.8	7266	2.9	.049	1.72	.006	.959	.42
60	7540		4853	2.5	3217	2.8	.41	1.38	.387	.663	.17
67	5140		3217	2.8	2291	3.1	1.26	1.15	.298	.712	.13

SUMMARY TABLE 3

STORM DISCHARGES (CFS) AT XSECTIONS AND STRUCTURES FOR ALL ALTERNATES
QUESTION MARK (?) AFTER: OUTFLOW PEAK - RISING TRUNCATED HYDROGRAPH.

XSECTION/ STRUCTURE ID	DRAINAGE AREA (SQ MI)	STORM NUMBERS..... 1
STRUCTURE 1	20.57	
ALTERNATE 1		3912
XSECTION 1	2.46	
ALTERNATE 1		6069
XSECTION 2	2.38	
ALTERNATE 1		4870
XSECTION 3	3.94	
ALTERNATE 1		9534
XSECTION 4	2.06	
ALTERNATE 1		3682
XSECTION 5	4.78	
ALTERNATE 1		9115
XSECTION 6	1.47	
ALTERNATE 1		4857
XSECTION 7	3.48	
ALTERNATE 1		6427
XSECTION 10	2.46	
ALTERNATE 1		2220
XSECTION 12	4.84	
ALTERNATE 1		4100
XSECTION 20	4.84	
ALTERNATE 1		4096
XSECTION 25	3.94	
ALTERNATE 1		3525
XSECTION 30	3.94	
ALTERNATE 1		4906
XSECTION 34	6.00	

SUMMARY TABLE 3

STORM DISCHARGES (CFS) AT XSECTIONS AND STRUCTURES FOR ALL ALTERNATES
QUESTION MARK (?) AFTER: OUTFLOW PEAK - RISING TRUNCATED HYDROGRAPH.

XSECTION/ STRUCTURE ID	DRAINAGE AREA (SQ MI)	STORM NUMBERS..... 1
XSECTION 34	6.00	
ALTERNATE 1		4072
XSECTION 35	10.84	
ALTERNATE 1		7599
XSECTION 45	10.84	
ALTERNATE 1		7266
XSECTION 60	1.47	
ALTERNATE 1		3219
XSECTION 64	12.31	
ALTERNATE 1		9382
XSECTION 67	1.47	
ALTERNATE 1		2292
XSECTION 75	8.26	
ALTERNATE 1		15048
XSECTION 76	20.57	
ALTERNATE 1		23556
XSECTION 199	.00	
ALTERNATE 1		0
XSECTION 200	.00	
ALTERNATE 1		785

ECON2 DATA FILE

```
ECON2
TITLE        WHITE TANK FRS #3, WATERSHED DIVIDED INTO 7 SUB-BASINS
TITLE                   ESH HYDROGRAPH, 100-YR SEDIMENT
FLOW-FREQ    -1          3912.                                    ALT  1   1
FLOW-FREQ     1          6069.                                    ALT  1   2
FLOW-FREQ     2          4870.                                    ALT  1   3
FLOW-FREQ     3          9534.                                    ALT  1   4
FLOW-FREQ     4          3682.                                    ALT  1   5
FLOW-FREQ     5          9115.                                    ALT  1   6
FLOW-FREQ     6          4857.                                    ALT  1   7
FLOW-FREQ     7          6427.                                    ALT  1   8
FLOW-FREQ    10          2220.                                    ALT  1   9
FLOW-FREQ    12          4100.                                    ALT  1  10
FLOW-FREQ    20          4096.                                    ALT  1  11
FLOW-FREQ    25          3525.                                    ALT  1  12
FLOW-FREQ    30          4906.                                    ALT  1  13
FLOW-FREQ    34          4072.                                    ALT  1  14
FLOW-FREQ    35          7599.                                    ALT  1  15
FLOW-FREQ    45          7266.                                    ALT  1  16
FLOW-FREQ    60          3219.                                    ALT  1  17
FLOW-FREQ    64          9382.                                    ALT  1  18
FLOW-FREQ    67          2292.                                    ALT  1  19
FLOW-FREQ    75         15048.                                    ALT  1  20
FLOW-FREQ    76         23556.                                    ALT  1  21
FLOW-FREQ   200           785.                                    ALT  1  22
```

```
TR20 ------------------------------------------------------------------ SCS -
WT3ESH       WHITE TANK FRS #3, WATERSHED DIVIDED INTO 7 SUB-BASINS      VERSION
09/07/**                ESH HYDROGRAPH, 100-YR SEDIMENT                 2.04TEST


END OF  1 JOBS IN THIS RUN


                    SCS  TR-20,  VERSION 2.04TEST
                          WT3ESH    FILES

     INPUT  = ESH.DAT                                  , GIVEN DATA FILE
     OUTPUT = OUTT.OUT                                 , DATED 09/07/**,13:45:50

              FILES GENERATED - DATED 09/07/**,13:45:50

    FILE 111.TEC CONTAINS ECON2 INFORMATION

    FILE 111.TRD CONTAINS READHD INFORMATION


          TOTAL NUMBER OF WARNINGS =   0,  MESSAGES =   3

                       JOB ENDED AT 13:45:50
                  *** TR-20 RUN COMPLETED ***
```

APPENDIX E

CALCULATION PACKAGES – HYDROLOGY AND HYDRAULICS: ADWR CRITERIA

Note to Reviewers: The hydrology and hydraulics calculation packages were previously submitted on August 20, 2004 for review. The calculation packages have not been included with the 90 Percent Design Report.

APPENDIX F

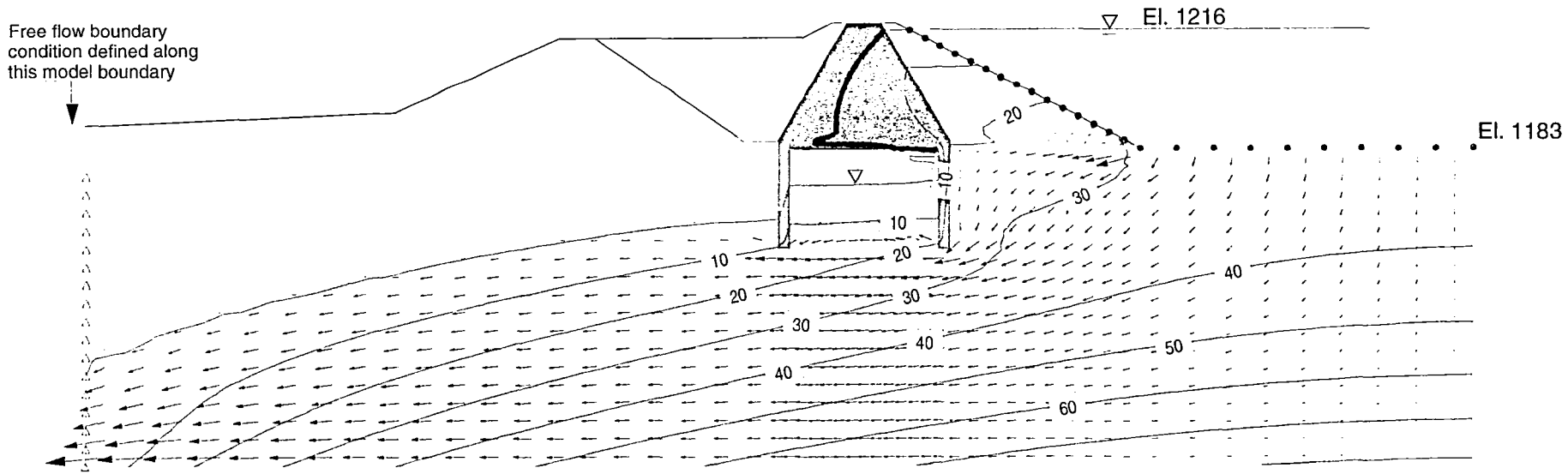
FISSURE EROSION MODELING

The Fissure Erosion Modeling Report is not included with this submittal. It will be included with the 100 Percent Design Report.

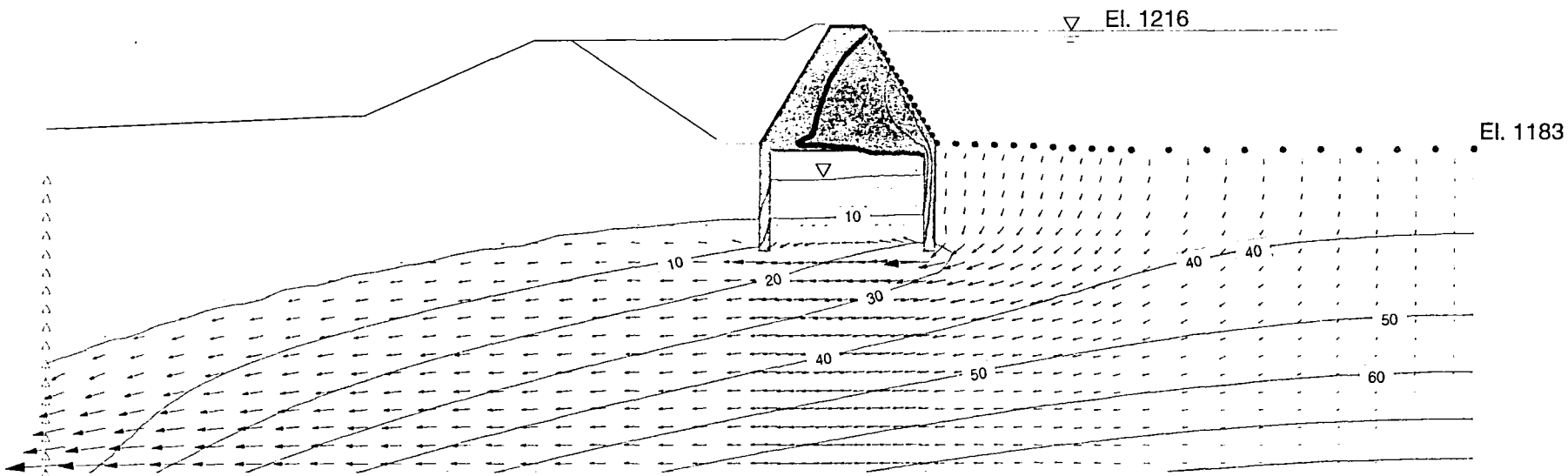
APPENDIX G

CALCULATION PACKAGES – GEOTECHNICAL DESIGN

Appendix G.1
Seepage Analysis



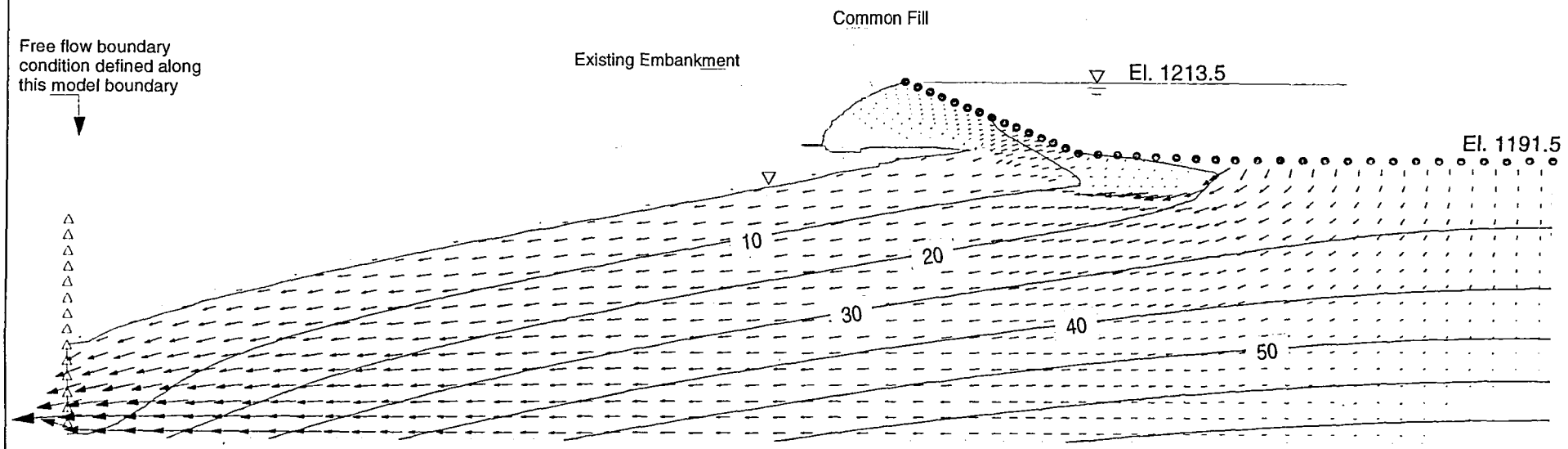
Contours of Pore Pressure (psf), With Upstream Common Fill



Contours of Pore Pressure (psf), Without Upstream Common Fill

Project No. 23443748	White Tanks FRS No.3 Arizona	Seepage Analysis Results Maximum Height Soil-Cement Section	Figure G.1-1
	URS		

White_4.GRF with /8/26/04/ <initials>



Contours of Pore Pressure (psf)

Project No. 23443748	White Tanks FRS No.3 Arizona	Seepage Analysis Results Transition Section	Figure G.1-2
	URS		

Trans_2.GRF with /8/26/04/ <initials>

URS

EXHIBIT 4.7-2

CALCULATION COVER SHEET

Client: FLOOD CONTROL DISTRICT OF MARICOPA COUNTY, ARIZONA Project Name: 23443748

Project/Calculation Number: FLOOD RETENTION SYSTEM No 3.

Title: SEEPAGE ANALYSES FOR FRS No. 3.

Total Number of Pages (including cover sheet): _____

Total Number of Computer Runs: _____

Prepared by: ISG Date: 8-26-04

Checked by: Ed Villano Date: 8-27-04

Description and Purpose:

PERFORM SEEPAGE ANALYSES FOR MAX. HEIGHT SOIL-CEMENT SECTION AND TRANSITION SECTION OF THE DAM.

Design Basis/References/Assumptions

SEE WRITEUP IN THE DESIGN REPORT.

Remarks/Conclusions/Results:

COMPUTED PHREATIC SURFACES FOR BOTH STUDY SECTIONS SEEM QUITE RESONABLE AND AS EXPECTED. SEE DETAILED DISCUSSION OF THE SEEPAGE RESULTS IN THE DESIGN REPORT.

Calculation Approved by: Ed Villano 8/27/04

Project Manager/Date

Revision No.:	Description of Revision:	Approved by:

Project Manager/Date

SEEP/W Input and Output Files

Maximum Height Soil-Cement Section

```
FILEINFO
SEEPW 4.22
TITLE



/19/2004
34:36 PM
ALYSIS
    1     1 +6.2400e+001     1     0
CONVERGE
  200 +1.0000e-004 +1.0000e+000 +1.1000e+000 +1.0000e-004
TIME          10 +0.0000e+000 +1.0000e+000 +0.0000e+000 +1.5000e+000    10
1     1
    1 +1.0000e-002 +1.0000e-002     1
    2 +5.0000e-002 +6.0000e-002     1
    3 +2.2500e+000 +2.3100e+000     1
    4 +3.3750e+000 +5.6850e+000     1
    5 +5.0625e+000 +1.0748e+001     1
    6 +7.5938e+000 +1.8341e+001     1
    7 +1.1391e+001 +2.9732e+001     1
    8 +1.7086e+001 +4.6818e+001     1
    9 +2.5629e+001 +7.2447e+001     1
   10 +3.8443e+001 +1.1089e+002     1
MATERIAL      4
    1     7     1 +1.0000e+000 +0.0000e+000
    2     5     2 +1.0000e-001 +0.0000e+000
    3     4     3 +1.0000e-001 +0.0000e+000
    4     7     0 +1.0000e+000 +0.0000e+000
KFUNCTION      7
    1     3 +0.0000e+000 +1.5300e+000    13 -2.0000e+003 +4.0000e+002     0
1e-1 cm/sec
-1.0000e+000 +2.8341e+000
+0.0000e+000 +2.8341e+002
+1.0000e+001 +2.8341e+002
    2     3 +0.0000e+000 +1.5300e+000    13 -2.0000e+003 +4.0000e+002     0
1e-2
-1.0000e+000 +2.8340e-002
+0.0000e+000 +2.8340e+001
+1.0000e+001 +2.8340e+001
    4     3 +0.0000e+000 +1.5300e+000    13 -2.0000e+003 +4.0000e+002     0
1e-4
-1.0000e+000 +2.8339e-003
+0.0000e+000 +2.8339e-001
+1.0000e+001 +2.8339e-001
    5     3 +0.0000e+000 +1.5300e+000    13 -2.0000e+003 +4.0000e+002     0
1e-5cm/sec
-1.0000e+000 +2.8340e-004
+0.0000e+000 +2.8340e-002
+1.0000e+001 +2.8340e-002
    6     3 +0.0000e+000 +1.5300e+000    13 -2.0000e+003 +4.0000e+002     0
1e-6
-1.0000e+000 +2.8340e-005
+0.0000e+000 +2.8341e-003
+1.0000e+001 +2.8341e-003
    7     3 +0.0000e+000 +1.5300e+000    13 -2.0000e+003 +4.0000e+002     0
1e-7cm/sec
1.0000e+000 +2.8340e-006
.0000e+000 +2.8340e-004
```



```
+1.0000e+001 +2.8340e-004
SFUNCTION      3
    1     4 +0.0000e+000 +1.5300e+000
Fissure
-2.0000e+000 +1.0000e-001
-1.0000e+000 +1.0000e-001
+0.0000e+000 +1.0000e-001
+1.0000e+001 +1.0000e-001
    2     2 +0.0000e+000 +1.5300e+000

+0.0000e+000 +1.0000e-003
+1.0000e+001 +1.0000e-003
    3     2 +0.0000e+000 +1.5300e+000
Common Fill
+0.0000e+000 +3.0000e-001
+1.0000e+001 +3.0000e-001
BFUNCTION      0
MFUNCTION      0
NODE        1280
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    2 -7.4742e+001 +9.9883e+001 +0.0000e+000 +0.0000e+000 200200 +0.0000e+000
    3 -7.4742e+001 +1.0491e+002 +0.0000e+000 +0.0000e+000 200200 +0.0000e+000
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   85 -3.1716e+001 +1.3509e+002 +0.0000e+000 +0.0000e+000 000000 +0.0000e+000
   86 -3.1716e+001 +1.4012e+002 +0.0000e+000 +0.0000e+000 000000 +0.0000e+000
   87 -3.1716e+001 +1.4514e+002 +0.0000e+000 +0.0000e+000 000000 +0.0000e+000
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  114 -2.0960e+001 +1.8534e+002 +0.0000e+000 +0.0000e+000 000000 +0.0000e+000
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  125 -1.0203e+001 +1.4515e+002 +0.0000e+000 +0.0000e+000 000000 +0.0000e+000
  126 -1.0203e+001 +1.5017e+002 +0.0000e+000 +0.0000e+000 000000 +0.0000e+000
  127 -1.0203e+001 +1.5519e+002 +0.0000e+000 +0.0000e+000 000000 +0.0000e+000
  128 -1.0203e+001 +1.6021e+002 +0.0000e+000 +0.0000e+000 000000 +0.0000e+000
  129 -1.0203e+001 +1.6524e+002 +0.0000e+000 +0.0000e+000 000000 +0.0000e+000
  130 -1.0203e+001 +1.7026e+002 +0.0000e+000 +0.0000e+000 000000 +0.0000e+000
  131 -1.0203e+001 +1.7528e+002 +0.0000e+000 +0.0000e+000 000000 +0.0000e+000
  132 -1.0203e+001 +1.8031e+002 +0.0000e+000 +0.0000e+000 000000 +0.0000e+000
  133 -1.0203e+001 +1.8533e+002 +0.0000e+000 +0.0000e+000 000000 +0.0000e+000
  134 -7.8174e-001 +9.4919e+001 +0.0000e+000 +0.0000e+000 000000 +0.0000e+000
  135 -7.8168e-001 +9.9941e+001 +0.0000e+000 +0.0000e+000 000000 +0.0000e+000
  136 -7.8163e-001 +1.0496e+002 +0.0000e+000 +0.0000e+000 000000 +0.0000e+000
  137 -7.8157e-001 +1.0999e+002 +0.0000e+000 +0.0000e+000 000000 +0.0000e+000
  138 -7.8151e-001 +1.1501e+002 +0.0000e+000 +0.0000e+000 000000 +0.0000e+000
  139 -7.8146e-001 +1.2003e+002 +0.0000e+000 +0.0000e+000 000000 +0.0000e+000
  140 -7.8140e-001 +1.2505e+002 +0.0000e+000 +0.0000e+000 000000 +0.0000e+000
  141 -7.8135e-001 +1.3007e+002 +0.0000e+000 +0.0000e+000 000000 +0.0000e+000
  142 -7.8129e-001 +1.3510e+002 +0.0000e+000 +0.0000e+000 000000 +0.0000e+000
  143 -7.8124e-001 +1.4012e+002 +0.0000e+000 +0.0000e+000 000000 +0.0000e+000
  144 -7.8118e-001 +1.4514e+002 +0.0000e+000 +0.0000e+000 000000 +0.0000e+000
  145 -7.8113e-001 +1.5016e+002 +0.0000e+000 +0.0000e+000 000000 +0.0000e+000
  146 -7.8107e-001 +1.5518e+002 +0.0000e+000 +0.0000e+000 000000 +0.0000e+000
  147 -7.8101e-001 +1.6021e+002 +0.0000e+000 +0.0000e+000 000000 +0.0000e+000
  148 -7.8096e-001 +1.6523e+002 +0.0000e+000 +0.0000e+000 000000 +0.0000e+000
  149 -7.8090e-001 +1.7025e+002 +0.0000e+000 +0.0000e+000 000000 +0.0000e+000
  150 -7.8085e-001 +1.7527e+002 +0.0000e+000 +0.0000e+000 000000 +0.0000e+000
  151 -7.8079e-001 +1.8029e+002 +0.0000e+000 +0.0000e+000 000000 +0.0000e+000
  152 -7.8074e-001 +1.8532e+002 +0.0000e+000 +0.0000e+000 000000 +0.0000e+000
  153 +8.6399e+000 +9.4925e+001 +0.0000e+000 +0.0000e+000 000000 +0.0000e+000
  154 +8.6400e+000 +9.9946e+001 +0.0000e+000 +0.0000e+000 000000 +0.0000e+000
  155 +8.6402e+000 +1.0497e+002 +0.0000e+000 +0.0000e+000 000000 +0.0000e+000
  156 +8.6403e+000 +1.0999e+002 +0.0000e+000 +0.0000e+000 000000 +0.0000e+000
  157 +8.6404e+000 +1.1501e+002 +0.0000e+000 +0.0000e+000 000000 +0.0000e+000
  158 +8.6405e+000 +1.2003e+002 +0.0000e+000 +0.0000e+000 000000 +0.0000e+000
  159 +8.6406e+000 +1.2505e+002 +0.0000e+000 +0.0000e+000 000000 +0.0000e+000
```

```
40 -5.3229e+001 +9.9901e+001 +0.0000e+000 +0.0000e+000 000000 +0.0000e+000
41 -5.3229e+001 +1.0493e+002 +0.0000e+000 +0.0000e+000 000000 +0.0000e+000
```

```
160 +0.6407e+000 +1.3007e+002 +0.0000e+000 +0.0000e+000 000000 +0.0000e+000
161 +0.6408e+000 +1.3509e+002 +0.0000e+000 +0.0000e+000 000000 +0.0000e+000
```

162	+8.6409e+000	+1.4911e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
163	+8.6410e+000	+1.4513e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
164	+8.6412e+000	+1.5016e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
165	+8.6413e+000	+1.5518e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
166	+8.6414e+000	+1.6020e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
167	+8.6415e+000	+1.6522e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
168	+8.6416e+000	+1.7024e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
169	+8.6417e+000	+1.7526e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
170	+8.6418e+000	+1.8028e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
171	+8.6419e+000	+1.8530e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
172	+1.8062e+001	+9.4932e+001	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
173	+1.8062e+001	+9.9951e+001	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
174	+1.8062e+001	+1.0497e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
175	+1.8062e+001	+1.0999e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
176	+1.8062e+001	+1.1501e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
177	+1.8062e+001	+1.2003e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
178	+1.8063e+001	+1.2505e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
179	+1.8063e+001	+1.3007e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
180	+1.8063e+001	+1.3509e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
181	+1.8063e+001	+1.4011e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
182	+1.8063e+001	+1.4513e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
183	+1.8063e+001	+1.5015e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
184	+1.8064e+001	+1.5517e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
185	+1.8064e+001	+1.6019e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
186	+1.8064e+001	+1.6521e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
187	+1.8064e+001	+1.7023e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
188	+1.8064e+001	+1.7525e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
189	+1.8064e+001	+1.8027e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
190	+1.8065e+001	+1.8529e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
191	+2.7483e+001	+9.4938e+001	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
192	+2.7483e+001	+9.9956e+001	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
193	+2.7484e+001	+1.0497e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
194	+2.7484e+001	+1.0999e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
195	+2.7484e+001	+1.1501e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
196	+2.7484e+001	+1.2003e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
197	+2.7485e+001	+1.2505e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
198	+2.7485e+001	+1.3007e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
199	+2.7485e+001	+1.3509e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
200	+2.7485e+001	+1.4011e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
201	+2.7486e+001	+1.4512e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
202	+2.7486e+001	+1.5014e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
203	+2.7486e+001	+1.5516e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
204	+2.7486e+001	+1.6018e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
205	+2.7486e+001	+1.6520e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
206	+2.7487e+001	+1.7022e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
207	+2.7487e+001	+1.7524e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
208	+2.7487e+001	+1.8026e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
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210	+3.6905e+001	+9.4944e+001	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
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212	+3.6905e+001	+1.0498e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
213	+3.6906e+001	+1.1000e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
214	+3.6906e+001	+1.1501e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
215	+3.6906e+001	+1.2003e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
216	+3.6907e+001	+1.2505e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
217	+3.6907e+001	+1.3007e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
218	+3.6907e+001	+1.3508e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
219	+3.6907e+001	+1.4010e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
220	+3.6908e+001	+1.4512e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
221	+3.6908e+001	+1.5014e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000

222	+3.6908e+001	+1.5515e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
223	+3.6909e+001	+1.6017e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
224	+3.6909e+001	+1.6519e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
225	+3.6909e+001	+1.7021e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
226	+3.6909e+001	+1.7522e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
227	+3.6910e+001	+1.8024e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
228	+3.6910e+001	+1.8526e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
229	+4.6327e+001	+9.4950e+001	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
230	+4.6327e+001	+9.9967e+001	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
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232	+4.6328e+001	+1.1000e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
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234	+4.6328e+001	+1.2003e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
235	+4.6329e+001	+1.2505e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
236	+4.6329e+001	+1.3006e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
237	+4.6329e+001	+1.3508e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
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241	+4.6331e+001	+1.5515e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
242	+4.6331e+001	+1.6016e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
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244	+4.6332e+001	+1.7020e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
245	+4.6332e+001	+1.7521e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
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251	+5.5750e+001	+1.1000e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
252	+5.5750e+001	+1.1502e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
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254	+5.5751e+001	+1.2505e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
255	+5.5751e+001	+1.3006e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
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257	+5.5752e+001	+1.4009e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
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259	+5.5753e+001	+1.5012e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
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263	+5.5754e+001	+1.7018e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
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270	+6.5171e+001	+1.1000e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
271	+6.5172e+001	+1.1502e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
272	+6.5172e+001	+1.2003e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
273	+6.5173e+001	+1.2505e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
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278	+6.5175e+001	+1.5012e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
279	+6.5175e+001	+1.5513e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
280	+6.5176e+001	+1.6015e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
281	+6.5176e+001	+1.6516e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000

282	+6.5177e+001	+1.7017e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
283	+6.5177e+001	+1.7519e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
284	+6.5177e+001	+1.8020e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
285	+6.5178e+001	+1.8522e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
286	+7.4592e+001	+9.4969e+001	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
287	+7.4592e+001	+9.9982e+001	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
288	+7.4593e+001	+1.0500e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
289	+7.4593e+001	+1.1001e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
290	+7.4594e+001	+1.1502e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
291	+7.4594e+001	+1.2003e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
292	+7.4595e+001	+1.2505e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
293	+7.4595e+001	+1.3006e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
294	+7.4596e+001	+1.3507e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
295	+7.4596e+001	+1.4009e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
296	+7.4597e+001	+1.4510e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
297	+7.4597e+001	+1.5011e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
298	+7.4598e+001	+1.5512e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
299	+7.4598e+001	+1.6014e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
300	+7.4599e+001	+1.6515e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
301	+7.4599e+001	+1.7016e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
302	+7.4600e+001	+1.7518e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
303	+7.4600e+001	+1.8019e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
304	+7.4601e+001	+1.8520e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
305	+8.4013e+001	+9.4975e+001	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
306	+8.4014e+001	+9.9987e+001	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
307	+8.4014e+001	+1.0500e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
308	+8.4015e+001	+1.1001e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
309	+8.4016e+001	+1.1502e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
310	+8.4016e+001	+1.2003e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
311	+8.4017e+001	+1.2505e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
312	+8.4017e+001	+1.3006e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
313	+8.4018e+001	+1.3507e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
314	+8.4018e+001	+1.4008e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
315	+8.4019e+001	+1.4509e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
316	+8.4019e+001	+1.5010e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
317	+8.4020e+001	+1.5512e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
318	+8.4021e+001	+1.6013e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
319	+8.4021e+001	+1.6514e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
320	+8.4022e+001	+1.7015e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
321	+8.4022e+001	+1.7516e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
322	+8.4023e+001	+1.8018e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
323	+8.4023e+001	+1.8519e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
324	+9.3435e+001	+9.4981e+001	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
325	+9.3436e+001	+9.9992e+001	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
326	+9.3436e+001	+1.0500e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
327	+9.3437e+001	+1.1001e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
328	+9.3437e+001	+1.1502e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
329	+9.3438e+001	+1.2004e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
330	+9.3439e+001	+1.2504e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
331	+9.3439e+001	+1.3006e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
332	+9.3440e+001	+1.3507e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
333	+9.3440e+001	+1.4008e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
334	+9.3441e+001	+1.4509e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
335	+9.3442e+001	+1.5010e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
336	+9.3442e+001	+1.5511e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
337	+9.3443e+001	+1.6012e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
338	+9.3443e+001	+1.6513e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
339	+9.3444e+001	+1.7014e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
340	+9.3445e+001	+1.7515e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
341	+9.3445e+001	+1.8016e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000

342	+9.3446e+001	+1.8517e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
343	+1.0286e+002	+9.4988e+001	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
344	+1.0286e+002	+9.9997e+001	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
345	+1.0286e+002	+1.0501e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
346	+1.0286e+002	+1.1002e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
347	+1.0286e+002	+1.1503e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
348	+1.0286e+002	+1.2004e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
349	+1.0286e+002	+1.2504e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
350	+1.0286e+002	+1.3005e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
351	+1.0286e+002	+1.3506e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
352	+1.0286e+002	+1.4007e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
353	+1.0286e+002	+1.4508e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
354	+1.0286e+002	+1.5009e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
355	+1.0286e+002	+1.5510e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
356	+1.0286e+002	+1.6011e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
357	+1.0287e+002	+1.6512e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
358	+1.0287e+002	+1.7013e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
359	+1.0287e+002	+1.7514e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
360	+1.0287e+002	+1.8015e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
361	+1.0287e+002	+1.8516e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
362	+1.1170e+002	+1.8500e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
363	+1.1228e+002	+9.4994e+001	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
364	+1.1228e+002	+1.0000e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
365	+1.1228e+002	+1.0501e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
366	+1.1228e+002	+1.1002e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
367	+1.1228e+002	+1.1503e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
368	+1.1228e+002	+1.2004e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
369	+1.1228e+002	+1.2504e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
370	+1.1228e+002	+1.3005e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
371	+1.1228e+002	+1.3506e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
372	+1.1229e+002	+1.4007e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
373	+1.1229e+002	+1.4508e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
374	+1.1229e+002	+1.5009e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
375	+1.1229e+002	+1.5509e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
376	+1.1229e+002	+1.6010e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
377	+1.1229e+002	+1.6511e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
378	+1.1229e+002	+1.7012e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
379	+1.1229e+002	+1.7513e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
380	+1.1229e+002	+1.8014e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
381	+1.1688e+002	+1.8511e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
382	+1.2170e+002	+9.5000e+001	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
383	+1.2170e+002	+1.0001e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
384	+1.2170e+002	+1.0501e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
385	+1.2170e+002	+1.1002e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
386	+1.2170e+002	+1.1503e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
387	+1.2170e+002	+1.2004e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
388	+1.2171e+002	+1.2504e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
389	+1.2171e+002	+1.3005e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
390	+1.2171e+002	+1.3506e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
391	+1.2171e+002	+1.4007e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
392	+1.2171e+002	+1.4507e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
393	+1.2171e+002	+1.5008e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
394	+1.2171e+002	+1.5509e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
395	+1.2171e+002	+1.6009e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
396	+1.2171e+002	+1.6510e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
397	+1.2171e+002	+1.7011e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
398	+1.2171e+002	+1.7512e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
399	+1.2171e+002	+1.8012e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
400	+1.2171e+002	+1.8513e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
401	+1.2235e+002	+1.8718e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000

402	+1.2419e+002	+1.8924e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
403	+1.2524e+002	+9.5000e+001	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
404	+1.2524e+002	+1.0001e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
405	+1.2524e+002	+1.0501e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
406	+1.2524e+002	+1.1002e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
407	+1.2525e+002	+1.1503e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
408	+1.2525e+002	+1.2004e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
409	+1.2525e+002	+1.2504e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
410	+1.2525e+002	+1.3005e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
411	+1.2525e+002	+1.3506e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
412	+1.2525e+002	+1.4007e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
413	+1.2525e+002	+1.4507e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
414	+1.2525e+002	+1.5008e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
415	+1.2525e+002	+1.5509e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
416	+1.2525e+002	+1.6009e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
417	+1.2525e+002	+1.6510e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
418	+1.2525e+002	+1.7011e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
419	+1.2525e+002	+1.7512e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
420	+1.2525e+002	+1.8012e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
421	+1.2525e+002	+1.8296e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
422	+1.2525e+002	+1.8513e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
423	+1.2543e+002	+1.9129e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
424	+1.2631e+002	+1.8718e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
425	+1.2666e+002	+1.9335e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
426	+1.2737e+002	+1.8924e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
427	+1.2790e+002	+1.9540e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
428	+1.2843e+002	+1.9129e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
429	+1.2879e+002	+9.5000e+001	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
430	+1.2879e+002	+1.0001e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
431	+1.2879e+002	+1.0501e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
432	+1.2879e+002	+1.1002e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
433	+1.2879e+002	+1.1503e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
434	+1.2879e+002	+1.2004e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
435	+1.2879e+002	+1.2504e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
436	+1.2879e+002	+1.3005e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
437	+1.2879e+002	+1.3506e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
438	+1.2879e+002	+1.4007e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
439	+1.2879e+002	+1.4507e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
440	+1.2879e+002	+1.5008e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
441	+1.2879e+002	+1.5509e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
442	+1.2879e+002	+1.6009e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
443	+1.2879e+002	+1.6510e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
444	+1.2879e+002	+1.7011e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
445	+1.2879e+002	+1.7512e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
446	+1.2879e+002	+1.8012e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
447	+1.2879e+002	+1.8296e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
448	+1.2879e+002	+1.8513e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
449	+1.2914e+002	+1.9746e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
450	+1.2950e+002	+1.9335e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
451	+1.2968e+002	+1.8718e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
452	+1.3038e+002	+1.9951e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
453	+1.3056e+002	+1.8924e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
454	+1.3056e+002	+1.9540e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
455	+1.3145e+002	+1.9129e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
456	+1.3161e+002	+2.0157e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
457	+1.3162e+002	+1.9746e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
458	+1.3232e+002	+1.8296e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
459	+1.3233e+002	+9.5000e+001	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
460	+1.3233e+002	+1.0001e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
461	+1.3233e+002	+1.0501e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000

462	+1.3233e+002	+1.1002e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
463	+1.3233e+002	+1.1503e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
464	+1.3233e+002	+1.2004e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
465	+1.3233e+002	+1.2504e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
466	+1.3233e+002	+1.3005e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
467	+1.3233e+002	+1.3506e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
468	+1.3233e+002	+1.4007e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
469	+1.3233e+002	+1.4507e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
470	+1.3233e+002	+1.5008e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
471	+1.3233e+002	+1.5509e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
472	+1.3233e+002	+1.6009e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
473	+1.3233e+002	+1.6510e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
474	+1.3233e+002	+1.7011e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
475	+1.3233e+002	+1.7512e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
476	+1.3233e+002	+1.8012e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
477	+1.3233e+002	+1.8513e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
478	+1.3233e+002	+1.9335e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
479	+1.3268e+002	+1.9951e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
480	+1.3285e+002	+2.0362e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
481	+1.3304e+002	+1.8718e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
482	+1.3321e+002	+1.9540e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
483	+1.3374e+002	+2.0157e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
484	+1.3375e+002	+1.8924e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
485	+1.3409e+002	+2.0568e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
486	+1.3410e+002	+1.9746e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
487	+1.3445e+002	+1.9129e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
488	+1.3480e+002	+2.0362e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
489	+1.3498e+002	+1.9951e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
490	+1.3516e+002	+1.9335e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
491	+1.3532e+002	+2.0773e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
492	+1.3585e+002	+1.8296e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
493	+1.3586e+002	+2.0568e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
494	+1.3587e+002	+9.5000e+001	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
495	+1.3587e+002	+1.0001e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
496	+1.3587e+002	+1.0501e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
497	+1.3587e+002	+1.1002e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
498	+1.3587e+002	+1.1503e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
499	+1.3587e+002	+1.2004e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
500	+1.3587e+002	+1.2504e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
501	+1.3587e+002	+1.3005e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
502	+1.3587e+002	+1.3506e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
503	+1.3587e+002	+1.4007e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
504	+1.3587e+002	+1.4507e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
505	+1.3587e+002	+1.5008e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
506	+1.3587e+002	+1.5509e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
507	+1.3587e+002	+1.6009e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
508	+1.3587e+002	+1.6510e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
509	+1.3587e+002	+1.7011e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
510	+1.3587e+002	+1.7512e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
511	+1.3587e+002	+1.8012e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
512	+1.3587e+002	+1.8513e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
513	+1.3587e+002	+1.9540e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
514	+1.3587e+002	+2.0157e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
515	+1.3640e+002	+1.8718e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
516	+1.3656e+002	+2.0979e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
517	+1.3658e+002	+1.9746e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
518	+1.3675e+002	+2.0362e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
519	+1.3692e+002	+2.0773e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
520	+1.3693e+002	+1.8924e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
521	+1.3729e+002	+1.9951e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000

522	+1.3746e+002	+1.9129e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
523	+1.3764e+002	+2.0568e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
524	+1.3780e+002	+2.1184e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
525	+1.3798e+002	+2.0979e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
526	+1.3799e+002	+1.9335e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
527	+1.3799e+002	+2.0157e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
528	+1.3852e+002	+2.0773e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
529	+1.3853e+002	+1.9540e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
530	+1.3870e+002	+2.0362e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
531	+1.3904e+002	+2.1184e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
532	+1.3904e+002	+2.1389e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
533	+1.3906e+002	+1.9746e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
534	+1.3938e+002	+1.8296e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
535	+1.3940e+002	+2.0979e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
536	+1.3941e+002	+9.5000e+001	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
537	+1.3941e+002	+1.0001e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
538	+1.3941e+002	+1.0501e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
539	+1.3941e+002	+1.1002e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
540	+1.3941e+002	+1.1503e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
541	+1.3941e+002	+1.2004e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
542	+1.3941e+002	+1.2504e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
543	+1.3941e+002	+1.3005e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
544	+1.3941e+002	+1.3506e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
545	+1.3941e+002	+1.4007e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
546	+1.3941e+002	+1.4507e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
547	+1.3941e+002	+1.5008e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
548	+1.3941e+002	+1.5509e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
549	+1.3941e+002	+1.6009e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
550	+1.3941e+002	+1.6510e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
551	+1.3941e+002	+1.7011e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
552	+1.3941e+002	+1.7512e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
553	+1.3941e+002	+1.8012e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
554	+1.3941e+002	+1.8513e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
555	+1.3941e+002	+2.0568e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
556	+1.3959e+002	+1.9951e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
557	+1.3976e+002	+1.8718e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
558	+1.4018e+002	+2.1389e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
559	+1.4012e+002	+1.8924e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
560	+1.4012e+002	+2.0157e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
561	+1.4012e+002	+2.0773e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
562	+1.4027e+002	+2.1595e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
563	+1.4029e+002	+2.1184e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
564	+1.4047e+002	+1.9129e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
565	+1.4065e+002	+2.0362e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
566	+1.4082e+002	+2.0979e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
567	+1.4083e+002	+1.9335e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
568	+1.4117e+002	+2.1389e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
569	+1.4117e+002	+2.1595e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
570	+1.4118e+002	+1.9540e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
571	+1.4118e+002	+2.0568e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
572	+1.4151e+002	+2.1800e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
573	+1.4153e+002	+2.1184e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
574	+1.4154e+002	+1.9746e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
575	+1.4171e+002	+2.0773e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
576	+1.4189e+002	+1.9951e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
577	+1.4206e+002	+2.1595e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
578	+1.4223e+002	+2.1800e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
579	+1.4224e+002	+2.1389e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
580	+1.4225e+002	+2.0157e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
581	+1.4225e+002	+2.0979e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000

582	+1.4260e+002	+2.0362e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
583	+1.4278e+002	+2.1184e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
584	+1.4291e+002	+1.8296e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
585	+1.4294e+002	+2.1800e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
586	+1.4295e+002	+1.1503e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
587	+1.4295e+002	+1.2004e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
588	+1.4295e+002	+1.2504e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
589	+1.4295e+002	+1.3005e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
590	+1.4295e+002	+1.3506e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
591	+1.4295e+002	+1.4007e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
592	+1.4295e+002	+1.4507e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
593	+1.4295e+002	+1.5008e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
594	+1.4295e+002	+1.5509e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
595	+1.4295e+002	+1.6009e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
596	+1.4295e+002	+1.6510e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
597	+1.4295e+002	+1.7011e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
598	+1.4295e+002	+1.7512e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
599	+1.4295e+002	+1.8012e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
600	+1.4295e+002	+1.8513e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
601	+1.4295e+002	+2.1595e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
602	+1.4296e+002	+9.5000e+001	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
603	+1.4296e+002	+1.0001e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
604	+1.4296e+002	+1.0501e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
605	+1.4296e+002	+1.1002e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
606	+1.4296e+002	+2.0568e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
607	+1.4312e+002	+1.8718e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
608	+1.4330e+002	+1.8924e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
609	+1.4331e+002	+2.0773e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
610	+1.4331e+002	+2.1389e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
611	+1.4348e+002	+1.9129e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
612	+1.4366e+002	+1.9335e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
613	+1.4366e+002	+2.1800e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
614	+1.4367e+002	+2.0979e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
615	+1.4384e+002	+1.9540e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
616	+1.4384e+002	+2.1595e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
617	+1.4402e+002	+1.9746e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
618	+1.4402e+002	+2.1184e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
619	+1.4420e+002	+1.9951e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
620	+1.4437e+002	+2.0157e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
621	+1.4437e+002	+2.1800e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
622	+1.4438e+002	+2.1389e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
623	+1.4455e+002	+2.0362e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
624	+1.4473e+002	+2.0568e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
625	+1.4473e+002	+2.1595e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
626	+1.4491e+002	+2.0773e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
627	+1.4509e+002	+2.0979e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
628	+1.4509e+002	+2.1800e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
629	+1.4527e+002	+2.1184e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
630	+1.4544e+002	+2.1389e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
631	+1.4562e+002	+2.1595e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
632	+1.4580e+002	+2.1800e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
633	+1.4644e+002	+1.8296e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
634	+1.4648e+002	+1.8012e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
635	+1.4648e+002	+1.8513e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
636	+1.4649e+002	+1.2504e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
637	+1.4649e+002	+1.3005e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
638	+1.4649e+002	+1.3506e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
639	+1.4649e+002	+1.4007e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
640	+1.4649e+002	+1.4507e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
641	+1.4649e+002	+1.5008e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000

642	+1.4649e+002	+1.5509e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
643	+1.4649e+002	+1.6009e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
644	+1.4649e+002	+1.6510e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
645	+1.4649e+002	+1.7011e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
646	+1.4649e+002	+1.7512e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
647	+1.4649e+002	+1.8718e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
648	+1.4649e+002	+1.8924e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
649	+1.4649e+002	+1.9129e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
650	+1.4649e+002	+1.9335e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
651	+1.4649e+002	+1.9540e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
652	+1.4650e+002	+9.5000e+001	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
653	+1.4650e+002	+1.0001e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
654	+1.4650e+002	+1.0501e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
655	+1.4650e+002	+1.1002e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
656	+1.4650e+002	+1.1503e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
657	+1.4650e+002	+1.2004e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
658	+1.4650e+002	+1.9746e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
659	+1.4650e+002	+1.9951e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
660	+1.4650e+002	+2.0157e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
661	+1.4650e+002	+2.0362e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
662	+1.4650e+002	+2.0568e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
663	+1.4651e+002	+2.0773e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
664	+1.4651e+002	+2.0979e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
665	+1.4651e+002	+2.1184e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
666	+1.4651e+002	+2.1389e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
667	+1.4651e+002	+2.1595e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
668	+1.4652e+002	+2.1800e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
669	+1.4723e+002	+2.1800e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
670	+1.4741e+002	+2.1595e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
671	+1.4758e+002	+2.1389e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
672	+1.4775e+002	+2.1184e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
673	+1.4793e+002	+2.0979e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
674	+1.4795e+002	+2.1800e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
675	+1.4810e+002	+2.0773e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
676	+1.4828e+002	+2.0568e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
677	+1.4830e+002	+2.1595e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
678	+1.4845e+002	+2.0362e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
679	+1.4863e+002	+2.0157e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
680	+1.4865e+002	+2.1389e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
681	+1.4866e+002	+2.1800e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
682	+1.4880e+002	+1.9951e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
683	+1.4898e+002	+1.9746e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
684	+1.4900e+002	+2.1184e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
685	+1.4915e+002	+1.9540e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
686	+1.4919e+002	+2.1595e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
687	+1.4932e+002	+1.9335e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
688	+1.4935e+002	+2.0979e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
689	+1.4938e+002	+2.1800e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
690	+1.4950e+002	+1.9129e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
691	+1.4967e+002	+1.8924e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
692	+1.4970e+002	+2.0773e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
693	+1.4972e+002	+2.1389e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
694	+1.4985e+002	+1.8718e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
695	+1.4998e+002	+1.8296e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
696	+1.5002e+002	+1.7011e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
697	+1.5002e+002	+1.7512e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
698	+1.5002e+002	+1.8012e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
699	+1.5002e+002	+1.8513e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
700	+1.5003e+002	+1.3506e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
701	+1.5003e+002	+1.4007e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000

702	+1.5003e+002	+1.4507e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
703	+1.5003e+002	+1.5008e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
704	+1.5003e+002	+1.5509e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
705	+1.5003e+002	+1.6009e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
706	+1.5003e+002	+1.6510e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
707	+1.5004e+002	+9.5000e+001	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
708	+1.5004e+002	+1.0001e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
709	+1.5004e+002	+1.0501e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
710	+1.5004e+002	+1.1002e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
711	+1.5004e+002	+1.1503e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
712	+1.5004e+002	+1.2004e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
713	+1.5004e+002	+1.2504e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
714	+1.5004e+002	+1.3005e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
715	+1.5005e+002	+2.0568e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
716	+1.5008e+002	+2.1595e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
717	+1.5009e+002	+2.1800e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
718	+1.5024e+002	+2.1184e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
719	+1.5040e+002	+2.0362e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
720	+1.5075e+002	+2.0157e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
721	+1.5077e+002	+2.0979e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
722	+1.5078e+002	+2.1389e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
723	+1.5080e+002	+2.1800e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
724	+1.5097e+002	+2.1595e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
725	+1.5110e+002	+1.9951e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
726	+1.5130e+002	+2.0773e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
727	+1.5146e+002	+1.9746e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
728	+1.5149e+002	+2.1184e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
729	+1.5152e+002	+2.1800e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
730	+1.5181e+002	+1.9540e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
731	+1.5182e+002	+2.0568e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
732	+1.5185e+002	+2.1389e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
733	+1.5186e+002	+2.1595e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
734	+1.5216e+002	+1.9335e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
735	+1.5219e+002	+2.0979e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
736	+1.5235e+002	+2.0362e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
737	+1.5251e+002	+1.9129e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
738	+1.5273e+002	+2.1184e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
739	+1.5275e+002	+2.1595e+002	+0.0000e+000	+2.1600e+002	100000	+0.0000e+000
740	+1.5286e+002	+1.8924e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
741	+1.5288e+002	+2.0157e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
742	+1.5290e+002	+2.0773e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
743	+1.5292e+002	+2.1389e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
744	+1.5321e+002	+1.8718e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
745	+1.5341e+002	+1.9951e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
746	+1.5351e+002	+1.8296e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
747	+1.5356e+002	+1.7512e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
748	+1.5356e+002	+1.8012e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
749	+1.5356e+002	+1.8513e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
750	+1.5357e+002	+1.3506e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
751	+1.5357e+002	+1.4007e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
752	+1.5357e+002	+1.4507e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
753	+1.5357e+002	+1.5008e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
754	+1.5357e+002	+1.5509e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
755	+1.5357e+002	+1.6009e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
756	+1.5357e+002	+1.6510e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
757	+1.5357e+002	+1.7011e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
758	+1.5358e+002	+1.0001e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
759	+1.5358e+002	+1.0501e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
760	+1.5358e+002	+1.1002e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
761	+1.5358e+002	+1.1503e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000

762	+1.5358e+002	+1.2004e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
763	+1.5358e+002	+1.2504e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
764	+1.5358e+002	+1.3005e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
765	+1.5359e+002	+9.5000e+001	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
766	+1.5360e+002	+2.0568e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
767	+1.5361e+002	+2.0979e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
768	+1.5393e+002	+1.9746e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
769	+1.5398e+002	+2.1184e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
770	+1.5399e+002	+2.1389e+002	+0.0000e+000	+2.1600e+002	100000	+0.0000e+000
771	+1.5430e+002	+2.0362e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
772	+1.5446e+002	+1.9540e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
773	+1.5449e+002	+2.0773e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
774	+1.5499e+002	+1.9335e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
775	+1.5501e+002	+2.0157e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
776	+1.5503e+002	+2.0979e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
777	+1.5522e+002	+2.1184e+002	+0.0000e+000	+2.1600e+002	100000	+0.0000e+000
778	+1.5537e+002	+2.0568e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
779	+1.5552e+002	+1.9129e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
780	+1.5571e+002	+1.9951e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
781	+1.5604e+002	+1.8924e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
782	+1.5609e+002	+2.0773e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
783	+1.5625e+002	+2.0362e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
784	+1.5641e+002	+1.9746e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
785	+1.5645e+002	+2.0979e+002	+0.0000e+000	+2.1600e+002	100000	+0.0000e+000
786	+1.5657e+002	+1.8718e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
787	+1.5704e+002	+1.8296e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
788	+1.5710e+002	+1.6510e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
789	+1.5710e+002	+1.7011e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
790	+1.5710e+002	+1.7512e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
791	+1.5710e+002	+1.8012e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
792	+1.5710e+002	+1.8513e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
793	+1.5711e+002	+1.4007e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
794	+1.5711e+002	+1.4507e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
795	+1.5711e+002	+1.5008e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
796	+1.5711e+002	+1.5509e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
797	+1.5711e+002	+1.6009e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
798	+1.5712e+002	+1.1002e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
799	+1.5712e+002	+1.1503e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
800	+1.5712e+002	+1.2004e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
801	+1.5712e+002	+1.2504e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
802	+1.5712e+002	+1.3005e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
803	+1.5712e+002	+1.3506e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
804	+1.5712e+002	+1.9540e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
805	+1.5713e+002	+9.5000e+001	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
806	+1.5713e+002	+1.0001e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
807	+1.5713e+002	+1.0501e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
808	+1.5713e+002	+2.0157e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
809	+1.5715e+002	+2.0568e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
810	+1.5769e+002	+2.0773e+002	+0.0000e+000	+2.1600e+002	100000	+0.0000e+000
811	+1.5782e+002	+1.9335e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
812	+1.5801e+002	+1.9951e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
813	+1.5820e+002	+2.0362e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
814	+1.5853e+002	+1.9129e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
815	+1.5889e+002	+1.9746e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
816	+1.5892e+002	+2.0568e+002	+0.0000e+000	+2.1600e+002	100000	+0.0000e+000
817	+1.5923e+002	+1.8924e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
818	+1.5926e+002	+2.0157e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
819	+1.5977e+002	+1.9540e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
820	+1.5993e+002	+1.8718e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
821	+1.6015e+002	+2.0362e+002	+0.0000e+000	+2.1600e+002	100000	+0.0000e+000

822	+1.6032e+002	+1.9951e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
823	+1.6057e+002	+1.8296e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
824	+1.6064e+002	+1.7011e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
825	+1.6064e+002	+1.7512e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
826	+1.6064e+002	+1.8012e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
827	+1.6064e+002	+1.8513e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
828	+1.6065e+002	+1.4007e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
829	+1.6065e+002	+1.4507e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
830	+1.6065e+002	+1.5008e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
831	+1.6065e+002	+1.5509e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
832	+1.6065e+002	+1.6009e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
833	+1.6065e+002	+1.6510e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
834	+1.6065e+002	+1.9335e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
835	+1.6066e+002	+1.1503e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
836	+1.6066e+002	+1.2004e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
837	+1.6066e+002	+1.2504e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
838	+1.6066e+002	+1.3005e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
839	+1.6066e+002	+1.3506e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
840	+1.6067e+002	+9.5000e+001	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
841	+1.6067e+002	+1.0001e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
842	+1.6067e+002	+1.0501e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
843	+1.6067e+002	+1.1002e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
844	+1.6137e+002	+1.9746e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
845	+1.6139e+002	+2.0157e+002	+0.0000e+000	+2.1600e+002	100000	+0.0000e+000
846	+1.6154e+002	+1.9129e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
847	+1.6242e+002	+1.8924e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
848	+1.6243e+002	+1.9540e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
849	+1.6262e+002	+1.9951e+002	+0.0000e+000	+2.1600e+002	100000	+0.0000e+000
850	+1.6330e+002	+1.8718e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
851	+1.6349e+002	+1.9335e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
852	+1.6385e+002	+1.9746e+002	+0.0000e+000	+2.1600e+002	100000	+0.0000e+000
853	+1.6410e+002	+1.8296e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
854	+1.6418e+002	+1.6510e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
855	+1.6418e+002	+1.7011e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
856	+1.6418e+002	+1.7512e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
857	+1.6418e+002	+1.8012e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
858	+1.6418e+002	+1.8513e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
859	+1.6419e+002	+1.4507e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
860	+1.6419e+002	+1.5008e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
861	+1.6419e+002	+1.5509e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
862	+1.6419e+002	+1.6009e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
863	+1.6420e+002	+1.2004e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
864	+1.6420e+002	+1.2504e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
865	+1.6420e+002	+1.3005e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
866	+1.6420e+002	+1.3506e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
867	+1.6420e+002	+1.4007e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
868	+1.6421e+002	+9.5000e+001	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
869	+1.6421e+002	+1.0001e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
870	+1.6421e+002	+1.0501e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
871	+1.6421e+002	+1.1002e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
872	+1.6421e+002	+1.1503e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
873	+1.6454e+002	+1.9129e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
874	+1.6589e+002	+1.9540e+002	+0.0000e+000	+2.1600e+002	100000	+0.0000e+000
875	+1.6560e+002	+1.8924e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
876	+1.6632e+002	+1.9335e+002	+0.0000e+000	+2.1600e+002	100000	+0.0000e+000
877	+1.6666e+002	+1.8718e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
878	+1.6755e+002	+1.9129e+002	+0.0000e+000	+2.1600e+002	100000	+0.0000e+000
879	+1.6763e+002	+1.8296e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
880	+1.6771e+002	+1.8513e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
881	+1.6772e+002	+1.6510e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000

882	+1.6772e+002	+1.7011e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
883	+1.6772e+002	+1.7512e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
884	+1.6772e+002	+1.8012e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
885	+1.6773e+002	+1.4507e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
886	+1.6773e+002	+1.5008e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
887	+1.6773e+002	+1.5509e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
888	+1.6773e+002	+1.6009e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
889	+1.6774e+002	+1.2004e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
890	+1.6774e+002	+1.2504e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
891	+1.6774e+002	+1.3005e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
892	+1.6774e+002	+1.3506e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
893	+1.6774e+002	+1.4007e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
894	+1.6775e+002	+1.0501e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
895	+1.6775e+002	+1.1002e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
896	+1.6775e+002	+1.1503e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
897	+1.6776e+002	+9.5000e+001	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
898	+1.6776e+002	+1.0001e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
899	+1.6879e+002	+1.8924e+002	+0.0000e+000	+2.1600e+002	100000	+0.0000e+000
900	+1.7002e+002	+1.8718e+002	+0.0000e+000	+2.1600e+002	100000	+0.0000e+000
901	+1.7125e+002	+1.8513e+002	+0.0000e+000	+2.1600e+002	100000	+0.0000e+000
902	+1.7126e+002	+1.6510e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
903	+1.7126e+002	+1.7011e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
904	+1.7126e+002	+1.7512e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
905	+1.7126e+002	+1.8012e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
906	+1.7127e+002	+1.4507e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
907	+1.7127e+002	+1.5008e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
908	+1.7127e+002	+1.5509e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
909	+1.7127e+002	+1.6009e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
910	+1.7128e+002	+1.2504e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
911	+1.7128e+002	+1.3005e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
912	+1.7128e+002	+1.3506e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
913	+1.7128e+002	+1.4007e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
914	+1.7129e+002	+1.0501e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
915	+1.7129e+002	+1.1002e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
916	+1.7129e+002	+1.1503e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
917	+1.7129e+002	+1.2004e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
918	+1.7130e+002	+9.5000e+001	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
919	+1.7130e+002	+1.0001e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
920	+1.7668e+002	+1.6993e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
921	+1.7668e+002	+1.7493e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
922	+1.7668e+002	+1.7993e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
923	+1.7668e+002	+1.8492e+002	+0.0000e+000	+2.1600e+002	100000	+0.0000e+000
924	+1.7669e+002	+1.5495e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
925	+1.7669e+002	+1.5994e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
926	+1.7669e+002	+1.6494e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
927	+1.7670e+002	+1.3496e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
928	+1.7670e+002	+1.3996e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
929	+1.7670e+002	+1.4495e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
930	+1.7670e+002	+1.4995e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
931	+1.7671e+002	+1.1497e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
932	+1.7671e+002	+1.1997e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
933	+1.7671e+002	+1.2497e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
934	+1.7671e+002	+1.2996e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
935	+1.7672e+002	+9.9987e+001	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
936	+1.7672e+002	+1.0498e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
937	+1.7672e+002	+1.0998e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
938	+1.7673e+002	+9.4991e+001	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
939	+1.8210e+002	+1.7474e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
940	+1.8210e+002	+1.7973e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
941	+1.8210e+002	+1.8471e+002	+0.0000e+000	+2.1600e+002	100000	+0.0000e+000

942	+1.8211e+002	+1.5979e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
943	+1.8211e+002	+1.6477e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
944	+1.8211e+002	+1.6976e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
945	+1.8212e+002	+1.4483e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
946	+1.8212e+002	+1.4982e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
947	+1.8212e+002	+1.5480e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
948	+1.8213e+002	+1.2489e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
949	+1.8213e+002	+1.2988e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
950	+1.8213e+002	+1.3486e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
951	+1.8213e+002	+1.3985e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
952	+1.8214e+002	+1.0994e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
953	+1.8214e+002	+1.1492e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
954	+1.8214e+002	+1.1991e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
955	+1.8215e+002	+9.4981e+001	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
956	+1.8215e+002	+9.9966e+001	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
957	+1.8215e+002	+1.0495e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
958	+1.8752e+002	+1.7953e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
959	+1.8752e+002	+1.8451e+002	+0.0000e+000	+2.1600e+002	100000	+0.0000e+000
960	+1.8753e+002	+1.6461e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
961	+1.8753e+002	+1.6959e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
962	+1.8753e+002	+1.7456e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
963	+1.8754e+002	+1.4969e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
964	+1.8754e+002	+1.5466e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
965	+1.8754e+002	+1.5964e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
966	+1.8755e+002	+1.2979e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
967	+1.8755e+002	+1.3476e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
968	+1.8755e+002	+1.3974e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
969	+1.8755e+002	+1.4471e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
970	+1.8756e+002	+1.1984e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
971	+1.8756e+002	+1.2482e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
972	+1.8757e+002	+9.9946e+001	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
973	+1.8757e+002	+1.0492e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
974	+1.8757e+002	+1.0989e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
975	+1.8757e+002	+1.1487e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
976	+1.8758e+002	+9.4972e+001	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
977	+1.9295e+002	+1.7437e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
978	+1.9295e+002	+1.7934e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
979	+1.9295e+002	+1.8430e+002	+0.0000e+000	+2.1600e+002	100000	+0.0000e+000
980	+1.9296e+002	+1.5452e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
981	+1.9296e+002	+1.5948e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
982	+1.9296e+002	+1.6445e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
983	+1.9296e+002	+1.6941e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
984	+1.9297e+002	+1.3963e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
985	+1.9297e+002	+1.4459e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
986	+1.9297e+002	+1.4956e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
987	+1.9298e+002	+1.2474e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
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989	+1.9298e+002	+1.3467e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
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991	+1.9299e+002	+1.1482e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
992	+1.9299e+002	+1.1978e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
993	+1.9300e+002	+9.4963e+001	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
994	+1.9300e+002	+9.9926e+001	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
995	+1.9300e+002	+1.0489e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
996	+1.9837e+002	+1.7419e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
997	+1.9837e+002	+1.7914e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
998	+1.9837e+002	+1.8409e+002	+0.0000e+000	+2.1600e+002	100000	+0.0000e+000
999	+1.9838e+002	+1.5933e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1000	+1.9838e+002	+1.6428e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1001	+1.9838e+002	+1.6924e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000

1002	+1.9839e+002	+1.4448e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1003	+1.9839e+002	+1.4943e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
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1005	+1.9840e+002	+1.2962e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1006	+1.9840e+002	+1.3457e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
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1017	+2.0380e+002	+1.6412e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
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1176 +2.6717e+002 +1.2431e+002 +0.0000e+000 +0.0000e+000 000000 +0.0000e+000
1177 +2.6717e+002 +1.2921e+002 +0.0000e+000 +0.0000e+000 000000 +0.0000e+000
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1180 +2.6718e+002 +1.0963e+002 +0.0000e+000 +0.0000e+000 000000 +0.0000e+000
1181 +2.6718e+002 +1.1452e+002 +0.0000e+000 +0.0000e+000 000000 +0.0000e+000
```



```
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```



```
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1280 +3.1924e+002 +1.0477e+002 +0.0000e+000 +0.0000e+000 000000 +0.0000e+000
ELEMENT     1194
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  0   0
    2   21   22    3    2    0    0    0    0    3    4 +1.0000e+000
  0   0
    3   22   23    4    3    0    0    0    0    3    4 +1.0000e+000
  0   0
    4   23   24    5    4    0    0    0    0    3    4 +1.0000e+000
  0   0
    5   24   25    6    5    0    0    0    0    3    4 +1.0000e+000
  0   0
    6   25   26    7    6    0    0    0    0    3    4 +1.0000e+000
  0   0
    7   26   27    8    7    0    0    0    0    3    4 +1.0000e+000
  0   0
    8   27   28    9    8    0    0    0    0    3    4 +1.0000e+000
  0   0
    9   28   29   10    9    0    0    0    0    3    4 +1.0000e+000
  0   0
   10   29   30   11   10    0    0    0    0    3    4 +1.0000e+000
  0   0
```



```
   11   30   31   12   11    0    0    0    0    3    4 +1.0000e+000
  0   0
   12   31   32   13   12    0    0    0    0    3    4 +1.0000e+000
  0   0
   13   32   33   14   13    0    0    0    0    3    4 +1.0000e+000
  0   0
   14   33   34   15   14    0    0    0    0    3    4 +1.0000e+000
  0   0
   15   34   35   16   15    0    0    0    0    3    4 +1.0000e+000
  0   0
   16   35   36   17   16    0    0    0    0    3    4 +1.0000e+000
  0   0
   17   36   37   18   17    0    0    0    0    3    4 +1.0000e+000
  0   0
   18   37   38   19   18    0    0    0    0    3    4 +1.0000e+000
  0   0
   19   39   40   21   20    0    0    0    0    3    4 +1.0000e+000
  0   0
   20   40   41   22   21    0    0    0    0    3    4 +1.0000e+000
  0   0
   21   41   42   23   22    0    0    0    0    3    4 +1.0000e+000
  0   0
   22   42   43   24   23    0    0    0    0    3    4 +1.0000e+000
  0   0
   23   43   44   25   24    0    0    0    0    3    4 +1.0000e+000
  0   0
   24   44   45   26   25    0    0    0    0    3    4 +1.0000e+000
  0   0
   25   45   46   27   26    0    0    0    0    3    4 +1.0000e+000
  0   0
   26   46   47   28   27    0    0    0    0    3    4 +1.0000e+000
  0   0
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  0   0
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  0   0
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  0   0
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  0   0
   31   51   52   33   32    0    0    0    0    3    4 +1.0000e+000
  0   0
   32   52   53   34   33    0    0    0    0    3    4 +1.0000e+000
  0   0
   33   53   54   35   34    0    0    0    0    3    4 +1.0000e+000
  0   0
   34   54   55   36   35    0    0    0    0    3    4 +1.0000e+000
  0   0
   35   55   56   37   36    0    0    0    0    3    4 +1.0000e+000
  0   0
   36   56   57   38   37    0    0    0    0    3    4 +1.0000e+000
  0   0
   37   58   59   40   39    0    0    0    0    3    4 +1.0000e+000
  0   0
   38   59   60   41   40    0    0    0    0    3    4 +1.0000e+000
  0   0
   39   60   61   42   41    0    0    0    0    3    4 +1.0000e+000
  0   0
   40   61   62   43   42    0    0    0    0    3    4 +1.0000e+000
  0   0
```

41	62	63	44	43	0	0	0	0	3	4	+1.0000e+000	0	0
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43	64	65	46	45	0	0	0	0	3	4	+1.0000e+000	0	0
44	65	66	47	46	0	0	0	0	3	4	+1.0000e+000	0	0
45	66	67	48	47	0	0	0	0	3	4	+1.0000e+000	0	0
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63	85	86	67	66	0	0	0	0	3	4	+1.0000e+000	0	0
64	86	87	68	67	0	0	0	0	3	4	+1.0000e+000	0	0
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66	88	89	70	69	0	0	0	0	3	4	+1.0000e+000	0	0
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71	93	94	75	74	0	0	0	0	3	4	+1.0000e+000	0	0
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77	100	101	82	81	0	0	0	0	3	4	+1.0000e+000	0	0
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79	102	103	84	83	0	0	0	0	3	4	+1.0000e+000	0	0
80	103	104	85	84	0	0	0	0	3	4	+1.0000e+000	0	0
81	104	105	86	85	0	0	0	0	3	4	+1.0000e+000	0	0
82	105	106	87	86	0	0	0	0	3	4	+1.0000e+000	0	0
83	106	107	88	87	0	0	0	0	3	4	+1.0000e+000	0	0
84	107	108	89	88	0	0	0	0	3	4	+1.0000e+000	0	0
85	108	109	90	89	0	0	0	0	3	4	+1.0000e+000	0	0
86	109	110	91	90	0	0	0	0	3	4	+1.0000e+000	0	0
87	110	111	92	91	0	0	0	0	3	4	+1.0000e+000	0	0
88	111	112	93	92	0	0	0	0	3	4	+1.0000e+000	0	0
89	112	113	94	93	0	0	0	0	3	4	+1.0000e+000	0	0
90	113	114	95	94	0	0	0	0	3	4	+1.0000e+000	0	0
91	115	116	97	96	0	0	0	0	3	4	+1.0000e+000	0	0
92	116	117	98	97	0	0	0	0	3	4	+1.0000e+000	0	0
93	117	118	99	98	0	0	0	0	3	4	+1.0000e+000	0	0
94	118	119	100	99	0	0	0	0	3	4	+1.0000e+000	0	0
95	119	120	101	100	0	0	0	0	3	4	+1.0000e+000	0	0
96	120	121	102	101	0	0	0	0	3	4	+1.0000e+000	0	0
97	121	122	103	102	0	0	0	0	3	4	+1.0000e+000	0	0
98	122	123	104	103	0	0	0	0	3	4	+1.0000e+000	0	0
99	123	124	105	104	0	0	0	0	3	4	+1.0000e+000	0	0
100	124	125	106	105	0	0	0	0	3	4	+1.0000e+000	0	0

101	125	126	107	106	0	0	0	0	3	4	+1.0000e+000	0	0
102	126	127	108	107	0	0	0	0	3	4	+1.0000e+000	0	0
103	127	128	109	108	0	0	0	0	3	4	+1.0000e+000	0	0
104	128	129	110	109	0	0	0	0	3	4	+1.0000e+000	0	0
105	129	130	111	110	0	0	0	0	3	4	+1.0000e+000	0	0
106	130	131	112	111	0	0	0	0	3	4	+1.0000e+0[illegible]	0	0
107	131	132	113	112	0	0	0	0	3	4	+1.0000e+00[illegible]	0	0
108	132	133	114	113	0	0	0	0	3	4	+1.0000e+000	0	0
109	134	135	116	115	0	0	0	0	3	4	+1.0000e+000	0	0
110	135	136	117	116	0	0	0	0	3	4	+1.0000e+000	0	0
111	136	137	118	117	0	0	0	0	3	4	+1.0000e+000	0	0
112	137	138	119	118	0	0	0	0	3	4	+1.0000e+000	0	0
113	138	139	120	119	0	0	0	0	3	4	+1.0000e+000	0	0
114	139	140	121	120	0	0	0	0	3	4	+1.0000e+000	0	0
115	140	141	122	121	0	0	0	0	3	4	+1.0000e+000	0	0
116	141	142	123	122	0	0	0	0	3	4	+1.0000e+000	0	0
117	142	143	124	123	0	0	0	0	3	4	+1.0000e+000	0	0
118	143	144	125	124	0	0	0	0	3	4	+1.0000e+000	0	0
119	144	145	126	125	0	0	0	0	3	4	+1.0000e+000	0	0
120	145	146	127	126	0	0	0	0	3	4	+1.0000e+000	0	0
121	146	147	128	127	0	0	0	0	3	4	+1.0000e+000	0	0
122	147	148	129	128	0	0	0	0	3	4	+1.0000e+000	0	0
123	148	149	130	129	0	0	0	0	3	4	+1.0000e+000	0	0
124	149	150	131	130	0	0	0	0	3	4	+1.0000e+000	0	0
125	150	151	132	131	0	0	0	0	3	4	+1.0000e+000	0	0
126	151	152	133	132	0	0	0	0	3	4	+1.0000e+000	0	0
127	153	154	135	134	0	0	0	0	3	4	+1.0000e+000	0	0
128	154	155	136	135	0	0	0	0	3	4	+1.0000e+000	0	0
129	155	156	137	136	0	0	0	0	3	4	+1.0000e+000	0	0
130	156	157	138	137	0	0	0	0	3	4	+1.0000e+000	0	0

131	157	158	139	138	0	0	0	0	3	4	+1.0000e+0[illegible]	0	0
132	158	159	140	139	0	0	0	0	3	4	+1.0000e+000	0	0
133	159	160	141	140	0	0	0	0	3	4	+1.0000e+000	0	0
134	160	161	142	141	0	0	0	0	3	4	+1.0000e+000	0	0
135	161	162	143	142	0	0	0	0	3	4	+1.0000e+000	0	0
136	162	163	144	143	0	0	0	0	3	4	+1.0000e+000	0	0
137	163	164	145	144	0	0	0	0	3	4	+1.0000e+000	0	0
138	164	165	146	145	0	0	0	0	3	4	+1.0000e+000	0	0
139	165	166	147	146	0	0	0	0	3	4	+1.0000e+000	0	0
140	166	167	148	147	0	0	0	0	3	4	+1.0000e+000	0	0
141	167	168	149	148	0	0	0	0	3	4	+1.0000e+000	0	0
142	168	169	150	149	0	0	0	0	3	4	+1.0000e+000	0	0
143	169	170	151	150	0	0	0	0	3	4	+1.0000e+000	0	0
144	170	171	152	151	0	0	0	0	3	4	+1.0000e+000	0	0
145	172	173	154	153	0	0	0	0	3	4	+1.0000e+000	0	0
146	173	174	155	154	0	0	0	0	3	4	+1.0000e+000	0	0
147	174	175	156	155	0	0	0	0	3	4	+1.0000e+000	0	0
148	175	176	157	156	0	0	0	0	3	4	+1.0000e+000	0	0
149	176	177	158	157	0	0	0	0	3	4	+1.0000e+000	0	0
150	177	178	159	158	0	0	0	0	3	4	+1.0000e+000	0	0
151	178	179	160	159	0	0	0	0	3	4	+1.0000e+000	0	0
152	179	180	161	160	0	0	0	0	3	4	+1.0000e+000	0	0
153	180	181	162	161	0	0	0	0	3	4	+1.0000e+000	0	0
154	181	182	163	162	0	0	0	0	3	4	+1.0000e+000	0	0
155	182	183	164	163	0	0	0	0	3	4	+1.0000e+00[illegible]	0	0
156	183	184	165	164	0	0	0	0	3	4	+1.0000e+0[illegible]	0	0
157	184	185	166	165	0	0	0	0	3	4	+1.0000e+000	0	0
158	185	186	167	166	0	0	0	0	3	4	+1.0000e+000	0	0
159	186	187	168	167	0	0	0	0	3	4	+1.0000e+000	0	0
160	187	188	169	168	0	0	0	0	3	4	+1.0000e+000	0	0

161	188	189	170	169	0	0	0	0	3	4	+1.0000e+000	0	0
162	189	190	171	170	0	0	0	0	3	4	+1.0000e+000	0	0
163	191	192	173	172	0	0	0	0	3	4	+1.0000e+000	0	0
164	192	193	174	173	0	0	0	0	3	4	+1.0000e+000	0	0
165	193	194	175	174	0	0	0	0	3	4	+1.0000e+000	0	0
166	194	195	176	175	0	0	0	0	3	4	+1.0000e+000	0	0
167	195	196	177	176	0	0	0	0	3	4	+1.0000e+000	0	0
168	196	197	178	177	0	0	0	0	3	4	+1.0000e+000	0	0
169	197	198	179	178	0	0	0	0	3	4	+1.0000e+000	0	0
170	198	199	180	179	0	0	0	0	3	4	+1.0000e+000	0	0
171	199	200	181	180	0	0	0	0	3	4	+1.0000e+000	0	0
172	200	201	182	181	0	0	0	0	3	4	+1.0000e+000	0	0
173	201	202	183	182	0	0	0	0	3	4	+1.0000e+000	0	0
174	202	203	184	183	0	0	0	0	3	4	+1.0000e+000	0	0
175	203	204	185	184	0	0	0	0	3	4	+1.0000e+000	0	0
176	204	205	186	185	0	0	0	0	3	4	+1.0000e+000	0	0
177	205	206	187	186	0	0	0	0	3	4	+1.0000e+000	0	0
178	206	207	188	187	0	0	0	0	3	4	+1.0000e+000	0	0
179	207	208	189	188	0	0	0	0	3	4	+1.0000e+000	0	0
180	208	209	190	189	0	0	0	0	3	4	+1.0000e+000	0	0
181	210	211	192	191	0	0	0	0	3	4	+1.0000e+000	0	0
182	211	212	193	192	0	0	0	0	3	4	+1.0000e+000	0	0
183	212	213	194	193	0	0	0	0	3	4	+1.0000e+000	0	0
184	213	214	195	194	0	0	0	0	3	4	+1.0000e+000	0	0
185	214	215	196	195	0	0	0	0	3	4	+1.0000e+000	0	0
186	215	216	197	196	0	0	0	0	3	4	+1.0000e+000	0	0
187	216	217	198	197	0	0	0	0	3	4	+1.0000e+000	0	0
188	217	218	199	198	0	0	0	0	3	4	+1.0000e+000	0	0
189	218	219	200	199	0	0	0	0	3	4	+1.0000e+000	0	0
190	219	220	201	200	0	0	0	0	3	4	+1.0000e+000	0	0

191	220	221	202	201	0	0	0	0	3	4	+1.0000e+000	0	0
192	221	222	203	202	0	0	0	0	3	4	+1.0000e+000	0	0
193	222	223	204	203	0	0	0	0	3	4	+1.0000e+000	0	0
194	223	224	205	204	0	0	0	0	3	4	+1.0000e+000	0	0
195	224	225	206	205	0	0	0	0	3	4	+1.0000e+000	0	0
196	225	226	207	206	0	0	0	0	3	4	+1.0000e+000	0	0
197	226	227	208	207	0	0	0	0	3	4	+1.0000e+000	0	0
198	227	228	209	208	0	0	0	0	3	4	+1.0000e+000	0	0
199	229	230	211	210	0	0	0	0	3	4	+1.0000e+000	0	0
200	230	231	212	211	0	0	0	0	3	4	+1.0000e+000	0	0
201	231	232	213	212	0	0	0	0	3	4	+1.0000e+000	0	0
202	232	233	214	213	0	0	0	0	3	4	+1.0000e+000	0	0
203	233	234	215	214	0	0	0	0	3	4	+1.0000e+000	0	0
204	234	235	216	215	0	0	0	0	3	4	+1.0000e+000	0	0
205	235	236	217	216	0	0	0	0	3	4	+1.0000e+000	0	0
206	236	237	218	217	0	0	0	0	3	4	+1.0000e+000	0	0
207	237	238	219	218	0	0	0	0	3	4	+1.0000e+000	0	0
208	238	239	220	219	0	0	0	0	3	4	+1.0000e+000	0	0
209	239	240	221	220	0	0	0	0	3	4	+1.0000e+000	0	0
210	240	241	222	221	0	0	0	0	3	4	+1.0000e+000	0	0
211	241	242	223	222	0	0	0	0	3	4	+1.0000e+000	0	0
212	242	243	224	223	0	0	0	0	3	4	+1.0000e+000	0	0
213	243	244	225	224	0	0	0	0	3	4	+1.0000e+000	0	0
214	244	245	226	225	0	0	0	0	3	4	+1.0000e+000	0	0
215	245	246	227	226	0	0	0	0	3	4	+1.0000e+000	0	0
216	246	247	228	227	0	0	0	0	3	4	+1.0000e+000	0	0
217	248	249	230	229	0	0	0	0	3	4	+1.0000e+000	0	0
218	249	250	231	230	0	0	0	0	3	4	+1.0000e+000	0	0
219	250	251	232	231	0	0	0	0	3	4	+1.0000e+000	0	0
220	251	252	233	232	0	0	0	0	3	4	+1.0000e+000	0	0

221	252	253	234	233	0	0	0	0	3	4	+1.0000e+000	0	0
222	253	254	235	234	0	0	0	0	3	4	+1.0000e+000	0	0
223	254	255	236	235	0	0	0	0	3	4	+1.0000e+000	0	0
224	255	256	237	236	0	0	0	0	3	4	+1.0000e+000	0	0
225	256	257	238	237	0	0	0	0	3	4	+1.0000e+000	0	0
226	257	258	239	238	0	0	0	0	3	4	+1.0000e+000	0	0
227	258	259	240	239	0	0	0	0	3	4	+1.0000e+000	0	0
228	259	260	241	240	0	0	0	0	3	4	+1.0000e+000	0	0
229	260	261	242	241	0	0	0	0	3	4	+1.0000e+000	0	0
230	261	262	243	242	0	0	0	0	3	4	+1.0000e+000	0	0
231	262	263	244	243	0	0	0	0	3	4	+1.0000e+000	0	0
232	263	264	245	244	0	0	0	0	3	4	+1.0000e+000	0	0
233	264	265	246	245	0	0	0	0	3	4	+1.0000e+000	0	0
234	265	266	247	246	0	0	0	0	3	4	+1.0000e+000	0	0
235	267	268	249	248	0	0	0	0	3	4	+1.0000e+000	0	0
236	268	269	250	249	0	0	0	0	3	4	+1.0000e+000	0	0
237	269	270	251	250	0	0	0	0	3	4	+1.0000e+000	0	0
238	270	271	252	251	0	0	0	0	3	4	+1.0000e+000	0	0
239	271	272	253	252	0	0	0	0	3	4	+1.0000e+000	0	0
240	272	273	254	253	0	0	0	0	3	4	+1.0000e+000	0	0
241	273	274	255	254	0	0	0	0	3	4	+1.0000e+000	0	0
242	274	275	256	255	0	0	0	0	3	4	+1.0000e+000	0	0
243	275	276	257	256	0	0	0	0	3	4	+1.0000e+000	0	0
244	276	277	258	257	0	0	0	0	3	4	+1.0000e+000	0	0
245	277	278	259	258	0	0	0	0	3	4	+1.0000e+000	0	0
246	278	279	260	259	0	0	0	0	3	4	+1.0000e+000	0	0
247	279	280	261	260	0	0	0	0	3	4	+1.0000e+000	0	0
248	280	281	262	261	0	0	0	0	3	4	+1.0000e+000	0	0
249	281	282	263	262	0	0	0	0	3	4	+1.0000e+000	0	0
250	282	283	264	263	0	0	0	0	3	4	+1.0000e+000	0	0

251	283	284	265	264	0	0	0	0	3	4	+1.0000e+000	0	0
252	284	285	266	265	0	0	0	0	3	4	+1.0000e+000	0	0
253	286	287	268	267	0	0	0	0	3	4	+1.0000e+000	0	0
254	287	288	269	268	0	0	0	0	3	4	+1.0000e+000	0	0
255	288	289	270	269	0	0	0	0	3	4	+1.0000e+000	0	0
256	289	290	271	270	0	0	0	0	3	4	+1.0000e+000	0	0
257	290	291	272	271	0	0	0	0	3	4	+1.0000e+000	0	0
258	291	292	273	272	0	0	0	0	3	4	+1.0000e+000	0	0
259	292	293	274	273	0	0	0	0	3	4	+1.0000e+000	0	0
260	293	294	275	274	0	0	0	0	3	4	+1.0000e+000	0	0
261	294	295	276	275	0	0	0	0	3	4	+1.0000e+000	0	0
262	295	296	277	276	0	0	0	0	3	4	+1.0000e+000	0	0
263	296	297	278	277	0	0	0	0	3	4	+1.0000e+000	0	0
264	297	298	279	278	0	0	0	0	3	4	+1.0000e+000	0	0
265	298	299	280	279	0	0	0	0	3	4	+1.0000e+000	0	0
266	299	300	281	280	0	0	0	0	3	4	+1.0000e+000	0	0
267	300	301	282	281	0	0	0	0	3	4	+1.0000e+000	0	0
268	301	302	283	282	0	0	0	0	3	4	+1.0000e+000	0	0
269	302	303	284	283	0	0	0	0	3	4	+1.0000e+000	0	0
270	303	304	285	284	0	0	0	0	3	4	+1.0000e+000	0	0
271	305	306	287	286	0	0	0	0	3	4	+1.0000e+000	0	0
272	306	307	288	287	0	0	0	0	3	4	+1.0000e+000	0	0
273	307	308	289	288	0	0	0	0	3	4	+1.0000e+000	0	0
274	308	309	290	289	0	0	0	0	3	4	+1.0000e+000	0	0
275	309	310	291	290	0	0	0	0	3	4	+1.0000e+000	0	0
276	310	311	292	291	0	0	0	0	3	4	+1.0000e+000	0	0
277	311	312	293	292	0	0	0	0	3	4	+1.0000e+000	0	0
278	312	313	294	293	0	0	0	0	3	4	+1.0000e+000	0	0
279	313	314	295	294	0	0	0	0	3	4	+1.0000e+000	0	0
280	314	315	296	295	0	0	0	0	3	4	+1.0000e+000	0	0

281	315	316	297	296	0	0	0	0	3	4	+1.0000e+000	0 0
282	316	317	298	297	0	0	0	0	3	4	+1.0000e+000	0 0
283	317	318	299	298	0	0	0	0	3	4	+1.0000e+000	0 0
284	318	319	300	299	0	0	0	0	3	4	+1.0000e+000	0 0
285	319	320	301	300	0	0	0	0	3	4	+1.0000e+000	0 0
286	320	321	302	301	0	0	0	0	3	4	+1.0000e+000	0 0
287	321	322	303	302	0	0	0	0	3	4	+1.0000e+000	0 0
288	322	323	304	303	0	0	0	0	3	4	+1.0000e+000	0 0
289	324	325	306	305	0	0	0	0	3	4	+1.0000e+000	0 0
290	325	326	307	306	0	0	0	0	3	4	+1.0000e+000	0 0
291	326	327	308	307	0	0	0	0	3	4	+1.0000e+000	0 0
292	327	328	309	308	0	0	0	0	3	4	+1.0000e+000	0 0
293	328	329	310	309	0	0	0	0	3	4	+1.0000e+000	0 0
294	329	330	311	310	0	0	0	0	3	4	+1.0000e+000	0 0
295	330	331	312	311	0	0	0	0	3	4	+1.0000e+000	0 0
296	331	332	313	312	0	0	0	0	3	4	+1.0000e+000	0 0
297	332	333	314	313	0	0	0	0	3	4	+1.0000e+000	0 0
298	333	334	315	314	0	0	0	0	3	4	+1.0000e+000	0 0
299	334	335	316	315	0	0	0	0	3	4	+1.0000e+000	0 0
300	335	336	317	316	0	0	0	0	3	4	+1.0000e+000	0 0
301	336	337	318	317	0	0	0	0	3	4	+1.0000e+000	0 0
302	337	338	319	318	0	0	0	0	3	4	+1.0000e+000	0 0
303	338	339	320	319	0	0	0	0	3	4	+1.0000e+000	0 0
304	339	340	321	320	0	0	0	0	3	4	+1.0000e+000	0 0
305	340	341	322	321	0	0	0	0	3	4	+1.0000e+000	0 0
306	341	342	323	322	0	0	0	0	3	4	+1.0000e+000	0 0
307	343	344	325	324	0	0	0	0	3	4	+1.0000e+000	0 0
308	344	345	326	325	0	0	0	0	3	4	+1.0000e+000	0 0
309	345	346	327	326	0	0	0	0	3	4	+1.0000e+000	0 0
310	346	347	328	327	0	0	0	0	3	4	+1.0000e+000	0 0

311	347	348	329	328	0	0	0	0	3	4	+1.0000e+000	0 0
312	348	349	330	329	0	0	0	0	3	4	+1.0000e+000	0 0
313	349	350	331	330	0	0	0	0	3	4	+1.0000e+000	0 0
314	350	351	332	331	0	0	0	0	3	4	+1.0000e+000	0 0
315	351	352	333	332	0	0	0	0	3	4	+1.0000e+000	0 0
316	352	353	334	333	0	0	0	0	3	4	+1.0000e+000	0 0
317	353	354	335	334	0	0	0	0	3	4	+1.0000e+000	0 0
318	354	355	336	335	0	0	0	0	3	4	+1.0000e+000	0 0
319	355	356	337	336	0	0	0	0	3	4	+1.0000e+000	0 0
320	356	357	338	337	0	0	0	0	3	4	+1.0000e+000	0 0
321	357	358	339	338	0	0	0	0	3	4	+1.0000e+000	0 0
322	358	359	340	339	0	0	0	0	3	4	+1.0000e+000	0 0
323	359	360	341	340	0	0	0	0	3	4	+1.0000e+000	0 0
324	360	361	342	341	0	0	0	0	3	4	+1.0000e+000	0 0
325	363	364	344	343	0	0	0	0	3	4	+1.0000e+000	0 0
326	364	365	345	344	0	0	0	0	3	4	+1.0000e+000	0 0
327	365	366	346	345	0	0	0	0	3	4	+1.0000e+000	0 0
328	366	367	347	346	0	0	0	0	3	4	+1.0000e+000	0 0
329	367	368	348	347	0	0	0	0	3	4	+1.0000e+000	0 0
330	368	369	349	348	0	0	0	0	3	4	+1.0000e+000	0 0
331	369	370	350	349	0	0	0	0	3	4	+1.0000e+000	0 0
332	370	371	351	350	0	0	0	0	3	4	+1.0000e+000	0 0
333	371	372	352	351	0	0	0	0	3	4	+1.0000e+000	0 0
334	372	373	353	352	0	0	0	0	3	4	+1.0000e+000	0 0
335	373	374	354	353	0	0	0	0	3	4	+1.0000e+000	0 0
336	374	375	355	354	0	0	0	0	3	4	+1.0000e+000	0 0
337	375	376	356	355	0	0	0	0	3	4	+1.0000e+000	0 0
338	376	377	357	356	0	0	0	0	3	4	+1.0000e+000	0 0
339	377	378	358	357	0	0	0	0	3	4	+1.0000e+000	0 0
340	378	379	359	358	0	0	0	0	3	4	+1.0000e+000	0 0

341	379	380	360	359	0	0	0	0	3	4	+1.0000e+000	0 0
342	361	360	380	362	0	0	0	0	3	4	+1.0000e+000	0 0
343	362	380	381	0	0	0	0	0	3	3	+1.0000e+000	0 0
344	382	383	364	363	0	0	0	0	3	4	+1.0000e+000	0 0
345	383	384	365	364	0	0	0	0	3	4	+1.0000e+000	0 0
346	384	385	366	365	0	0	0	0	3	4	+1.0000e+0[illegible]	0 0
347	385	386	367	366	0	0	0	0	3	4	+1.0000e+00[illegible]	0 0
348	386	387	368	367	0	0	0	0	3	4	+1.0000e+000	0 0
349	387	388	369	368	0	0	0	0	3	4	+1.0000e+000	0 0
350	388	389	370	369	0	0	0	0	3	4	+1.0000e+000	0 0
351	389	390	371	370	0	0	0	0	3	4	+1.0000e+000	0 0
352	390	391	372	371	0	0	0	0	3	4	+1.0000e+000	0 0
353	391	392	373	372	0	0	0	0	3	4	+1.0000e+000	0 0
354	392	393	374	373	0	0	0	0	3	4	+1.0000e+000	0 0
355	393	394	375	374	0	0	0	0	3	4	+1.0000e+000	0 0
356	394	395	376	375	0	0	0	0	3	4	+1.0000e+000	0 0
357	395	396	377	376	0	0	0	0	3	4	+1.0000e+000	0 0
358	396	397	378	377	0	0	0	0	3	4	+1.0000e+000	0 0
359	397	398	379	378	0	0	0	0	3	4	+1.0000e+000	0 0
360	398	399	380	379	0	0	0	0	3	4	+1.0000e+000	0 0
361	381	380	399	0	0	0	0	0	3	3	+1.0000e+000	0 0
362	381	399	400	0	0	0	0	0	3	3	+1.0000e+000	0 0
363	383	382	403	404	0	0	0	0	3	4	+1.0000e+000	0 0
364	384	383	404	405	0	0	0	0	3	4	+1.0000e+000	0 0
365	385	384	405	406	0	0	0	0	3	4	+1.0000e+000	0 0
366	386	385	406	407	0	0	0	0	3	4	+1.0000e+000	0 0
367	387	386	407	408	0	0	0	0	3	4	+1.0000e+000	0 0
368	388	387	408	409	0	0	0	0	3	4	+1.0000e+000	0 0
369	389	388	409	410	0	0	0	0	3	4	+1.0000e+000	0 0
370	390	389	410	411	0	0	0	0	3	4	+1.0000e+000	0 0

371	391	390	411	412	0	0	0	0	3	4	+1.0000e+00[illegible]	0 0
372	392	391	412	413	0	0	0	0	3	4	+1.0000e+000	0 0
373	393	392	413	414	0	0	0	0	3	4	+1.0000e+000	0 0
374	394	393	414	415	0	0	0	0	3	4	+1.0000e+000	0 0
375	395	394	415	416	0	0	0	0	4	4	+1.0000e+000	0 0
376	396	395	416	417	0	0	0	0	4	4	+1.0000e+000	0 0
377	397	396	417	418	0	0	0	0	4	4	+1.0000e+000	0 0
378	398	397	418	419	0	0	0	0	4	4	+1.0000e+000	0 0
379	399	398	419	420	0	0	0	0	4	4	+1.0000e+000	0 0
380	399	420	421	0	0	0	0	0	4	3	+1.0000e+000	0 0
381	400	399	421	422	0	0	0	0	4	9	+1.0000e+000	0 0
382	401	400	422	424	0	0	0	0	1	9	+1.0000e+000	0 0
383	402	401	424	426	0	0	0	0	1	9	+1.0000e+000	0 0
384	423	402	426	428	0	0	0	0	1	9	+1.0000e+000	0 0
385	404	403	429	430	0	0	0	0	3	4	+1.0000e+000	0 0
386	405	404	430	431	0	0	0	0	3	4	+1.0000e+000	0 0
387	406	405	431	432	0	0	0	0	3	4	+1.0000e+000	0 0
388	407	406	432	433	0	0	0	0	3	4	+1.0000e+000	0 0
389	408	407	433	434	0	0	0	0	3	4	+1.0000e+000	0 0
390	409	408	434	435	0	0	0	0	3	4	+1.0000e+000	0 0
391	410	409	435	436	0	0	0	0	3	4	+1.0000e+000	0 0
392	411	410	436	437	0	0	0	0	3	4	+1.0000e+000	0 0
393	412	411	437	438	0	0	0	0	3	4	+1.0000e+000	0 0
394	413	412	438	439	0	0	0	0	3	4	+1.0000e+000	0 0
395	414	413	439	440	0	0	0	0	3	4	+1.0000e+00[illegible]	0 0
396	415	414	440	441	0	0	0	0	3	4	+1.0000e+0[illegible]	0 0
397	416	415	441	442	0	0	0	0	3	4	+1.0000e+000	0 0
398	417	416	442	443	0	0	0	0	3	4	+1.0000e+000	0 0
399	418	417	443	444	0	0	0	0	3	4	+1.0000e+000	0 0
400	419	418	444	445	0	0	0	0	3	4	+1.0000e+000	0 0

401	420	419	445	446	0	0	0	0	3	4	+1.0000e+000	0 0
402	421	420	446	447	0	0	0	0	3	4	+1.0000e+000	0 0
403	422	421	447	448	0	0	0	0	1	4	+1.0000e+000	0 0
404	424	422	449	451	0	0	0	0	1	9	+1.0000e+000	0 0
405	425	423	428	450	0	0	0	0	1	9	+1.0000e+000	0 0
406	426	424	451	453	0	0	0	0	1	9	+1.0000e+000	0 0
407	427	425	450	454	0	0	0	0	1	9	+1.0000e+000	0 0
408	428	426	453	455	0	0	0	0	1	9	+1.0000e+000	0 0
409	449	427	454	457	0	0	0	0	1	9	+1.0000e+000	0 0
410	450	428	455	458	0	0	0	0	1	9	+1.0000e+000	0 0
411	430	429	459	460	0	0	0	0	3	4	+1.0000e+000	0 0
412	431	430	460	461	0	0	0	0	3	4	+1.0000e+000	0 0
413	432	431	461	462	0	0	0	0	3	4	+1.0000e+000	0 0
414	433	432	462	463	0	0	0	0	3	4	+1.0000e+000	0 0
415	434	433	463	464	0	0	0	0	3	4	+1.0000e+000	0 0
416	435	434	464	465	0	0	0	0	3	4	+1.0000e+000	0 0
417	436	435	465	466	0	0	0	0	3	4	+1.0000e+000	0 0
418	437	436	466	467	0	0	0	0	3	4	+1.0000e+000	0 0
419	438	437	467	468	0	0	0	0	3	4	+1.0000e+000	0 0
420	439	438	468	469	0	0	0	0	3	4	+1.0000e+000	0 0
421	440	439	469	470	0	0	0	0	3	4	+1.0000e+000	0 0
422	441	440	470	471	0	0	0	0	3	4	+1.0000e+000	0 0
423	442	441	471	472	0	0	0	0	3	4	+1.0000e+000	0 0
424	443	442	472	473	0	0	0	0	3	4	+1.0000e+000	0 0
425	444	443	473	474	0	0	0	0	3	4	+1.0000e+000	0 0
426	445	444	474	475	0	0	0	0	3	4	+1.0000e+000	0 0
427	446	445	475	476	0	0	0	0	3	4	+1.0000e+000	0 0
428	447	446	476	450	0	0	0	0	3	4	+1.0000e+000	0 0
429	448	447	458	477	0	0	0	0	1	4	+1.0000e+000	0 0
430	452	449	457	479	0	0	0	0	1	9	+1.0000e+000	0 0

431	451	448	477	481	0	0	0	0	1	9	+1.0000e+000	0 0
432	454	450	478	482	0	0	0	0	1	9	+1.0000e+000	0 0
433	453	451	481	484	0	0	0	0	1	9	+1.0000e+000	0 0
434	456	452	479	483	0	0	0	0	1	9	+1.0000e+000	0 0
435	457	454	482	486	0	0	0	0	1	9	+1.0000e+000	0 0
436	455	453	484	487	0	0	0	0	1	9	+1.0000e+000	0 0
437	480	456	483	488	0	0	0	0	1	9	+1.0000e+000	0 0
438	479	457	486	489	0	0	0	0	1	9	+1.0000e+000	0 0
439	478	455	487	490	0	0	0	0	1	9	+1.0000e+000	0 0
440	458	476	511	492	0	0	0	0	3	4	+1.0000e+000	0 0
441	477	458	492	512	0	0	0	0	1	4	+1.0000e+000	0 0
442	460	459	494	495	0	0	0	0	3	4	+1.0000e+000	0 0
443	461	460	495	496	0	0	0	0	3	4	+1.0000e+000	0 0
444	462	461	496	497	0	0	0	0	3	4	+1.0000e+000	0 0
445	463	462	497	498	0	0	0	0	3	4	+1.0000e+000	0 0
446	464	463	498	499	0	0	0	0	3	4	+1.0000e+000	0 0
447	465	464	499	500	0	0	0	0	3	4	+1.0000e+000	0 0
448	466	465	500	501	0	0	0	0	3	4	+1.0000e+000	0 0
449	467	466	501	502	0	0	0	0	3	4	+1.0000e+000	0 0
450	468	467	502	503	0	0	0	0	3	4	+1.0000e+000	0 0
451	469	468	503	504	0	0	0	0	3	4	+1.0000e+000	0 0
452	470	469	504	505	0	0	0	0	3	4	+1.0000e+000	0 0
453	471	470	505	506	0	0	0	0	3	4	+1.0000e+000	0 0
454	472	471	506	507	0	0	0	0	3	4	+1.0000e+000	0 0
455	473	472	507	508	0	0	0	0	3	4	+1.0000e+000	0 0
456	474	473	508	509	0	0	0	0	3	4	+1.0000e+000	0 0
457	475	474	509	510	0	0	0	0	3	4	+1.0000e+000	0 0
458	476	475	510	511	0	0	0	0	3	4	+1.0000e+000	0 0
459	482	478	490	513	0	0	0	0	1	9	+1.0000e+000	0 0
460	483	479	489	514	0	0	0	0	1	9	+1.0000e+000	0 0

461	485	480	488	493	0	0	0	0	1	9	+1.0000e+000	0 0
462	481	477	512	515	0	0	0	0	1	9	+1.0000e+000	0 0
463	486	482	513	517	0	0	0	0	1	9	+1.0000e+000	0 0
464	484	481	515	520	0	0	0	0	1	9	+1.0000e+000	0 0
465	488	483	514	518	0	0	0	0	1	9	+1.0000e+000	0 0
466	491	485	493	519	0	0	0	0	1	9	+1.0000e+000	0 0
467	487	484	520	522	0	0	0	0	1	9	+1.0000e+000	0 0
468	489	486	517	521	0	0	0	0	1	9	+1.0000e+000	0 0
469	490	487	522	526	0	0	0	0	1	9	+1.0000e+000	0 0
470	493	488	518	523	0	0	0	0	1	9	+1.0000e+000	0 0
471	514	489	521	527	0	0	0	0	1	9	+1.0000e+000	0 0
472	516	491	519	525	0	0	0	0	1	9	+1.0000e+000	0 0
473	513	490	526	529	0	0	0	0	1	9	+1.0000e+000	0 0
474	519	493	523	528	0	0	0	0	1	9	+1.0000e+000	0 0
475	518	514	527	530	0	0	0	0	1	9	+1.0000e+000	0 0
476	517	513	529	533	0	0	0	0	1	9	+1.0000e+000	0 0
477	492	511	553	534	0	0	0	0	3	4	+1.0000e+000	0 0
478	512	492	534	554	0	0	0	0	1	4	+1.0000e+000	0 0
479	495	494	536	537	0	0	0	0	3	4	+1.0000e+000	0 0
480	496	495	537	538	0	0	0	0	3	4	+1.0000e+000	0 0
481	497	496	538	539	0	0	0	0	3	4	+1.0000e+000	0 0
482	498	497	539	540	0	0	0	0	3	4	+1.0000e+000	0 0
483	499	498	540	541	0	0	0	0	3	4	+1.0000e+000	0 0
484	500	499	541	542	0	0	0	0	3	4	+1.0000e+000	0 0
485	501	500	542	543	0	0	0	0	3	4	+1.0000e+000	0 0
486	502	501	543	544	0	0	0	0	3	4	+1.0000e+000	0 0
487	503	502	544	545	0	0	0	0	3	4	+1.0000e+000	0 0
488	504	503	545	546	0	0	0	0	3	4	+1.0000e+000	0 0
489	505	504	546	547	0	0	0	0	3	4	+1.0000e+000	0 0
490	506	505	547	548	0	0	0	0	3	4	+1.0000e+000	0 0

491	507	506	548	549	0	0	0	0	3	4	+1.0000e+000	0 0
492	508	507	549	550	0	0	0	0	3	4	+1.0000e+000	0 0
493	509	508	550	551	0	0	0	0	3	4	+1.0000e+000	0 0
494	510	509	551	552	0	0	0	0	3	4	+1.0000e+000	0 0
495	511	510	552	553	0	0	0	0	3	4	+1.0000e+000	0 0
496	524	516	525	531	0	0	0	0	1	9	+1.0000e+000	0 0
497	515	512	554	557	0	0	0	0	1	9	+1.0000e+000	0 0
498	523	518	530	555	0	0	0	0	1	9	+1.0000e+000	0 0
499	521	517	533	556	0	0	0	0	1	9	+1.0000e+000	0 0
500	525	519	528	535	0	0	0	0	1	9	+1.0000e+000	0 0
501	520	515	557	559	0	0	0	0	1	9	+1.0000e+000	0 0
502	522	520	559	564	0	0	0	0	1	9	+1.0000e+000	0 0
503	527	521	556	560	0	0	0	0	1	9	+1.0000e+000	0 0
504	528	523	555	561	0	0	0	0	1	9	+1.0000e+000	0 0
505	532	524	531	558	0	0	0	0	1	9	+1.0000e+000	0 0
506	531	525	535	563	0	0	0	0	1	9	+1.0000e+000	0 0
507	526	522	564	567	0	0	0	0	1	9	+1.0000e+000	0 0
508	530	527	560	565	0	0	0	0	1	9	+1.0000e+000	0 0
509	529	526	567	570	0	0	0	0	1	9	+1.0000e+000	0 0
510	535	528	561	566	0	0	0	0	1	9	+1.0000e+000	0 0
511	555	530	565	571	0	0	0	0	1	9	+1.0000e+000	0 0
512	533	529	570	574	0	0	0	0	1	9	+1.0000e+000	0 0
513	558	531	563	568	0	0	0	0	1	9	+1.0000e+000	0 0
514	562	532	558	569	0	0	0	0	1	9	+1.0000e+000	0 0
515	563	535	566	573	0	0	0	0	1	9	+1.0000e+000	0 0
516	556	533	574	576	0	0	0	0	1	9	+1.0000e+000	0 0
517	561	555	571	575	0	0	0	0	1	9	+1.0000e+000	0 0
518	560	556	576	580	0	0	0	0	1	9	+1.0000e+000	0 0
519	569	558	568	577	0	0	0	0	1	9	+1.0000e+000	0 0
520	534	553	599	584	0	0	0	0	3	4	+1.0000e+000	0 0

521	554	534	584	600	0	0	0	0	1	4	+1.0000e+000	0	0
522	541	540	586	587	0	0	0	0	3	4	+1.0000e+000	0	0
523	542	541	587	588	0	0	0	0	3	4	+1.0000e+000	0	0
524	543	542	588	589	0	0	0	0	3	4	+1.0000e+000	0	0
525	544	543	589	590	0	0	0	0	3	4	+1.0000e+000	0	0
526	545	544	590	591	0	0	0	0	3	4	+1.0000e+000	0	0
527	546	545	591	592	0	0	0	0	3	4	+1.0000e+000	0	0
528	547	546	592	593	0	0	0	0	3	4	+1.0000e+000	0	0
529	548	547	593	594	0	0	0	0	3	4	+1.0000e+000	0	0
530	549	548	594	595	0	0	0	0	3	4	+1.0000e+000	0	0
531	550	549	595	596	0	0	0	0	3	4	+1.0000e+000	0	0
532	551	550	596	597	0	0	0	0	3	4	+1.0000e+000	0	0
533	552	551	597	598	0	0	0	0	3	4	+1.0000e+000	0	0
534	553	552	598	599	0	0	0	0	3	4	+1.0000e+000	0	0
535	566	561	575	581	0	0	0	0	1	9	+1.0000e+000	0	0
536	537	536	602	603	0	0	0	0	3	4	+1.0000e+000	0	0
537	538	537	603	604	0	0	0	0	3	4	+1.0000e+000	0	0
538	539	538	604	605	0	0	0	0	3	4	+1.0000e+000	0	0
539	540	539	605	586	0	0	0	0	3	4	+1.0000e+000	0	0
540	572	562	569	578	0	0	0	0	1	9	+1.0000e+000	0	0
541	557	554	600	607	0	0	0	0	1	9	+1.0000e+000	0	0
542	568	563	573	579	0	0	0	0	1	9	+1.0000e+000	0	0
543	565	560	580	582	0	0	0	0	1	9	+1.0000e+000	0	0
544	559	557	607	608	0	0	0	0	1	9	+1.0000e+000	0	0
545	564	559	608	611	0	0	0	0	1	9	+1.0000e+000	0	0
546	573	566	581	583	0	0	0	0	1	9	+1.0000e+000	0	0
547	571	565	582	606	0	0	0	0	1	9	+1.0000e+000	0	0
548	578	569	577	585	0	0	0	0	1	9	+1.0000e+000	0	0
549	577	568	579	601	0	0	0	0	1	9	+1.0000e+000	0	0
550	567	564	611	612	0	0	0	0	1	9	+1.0000e+000	0	0

551	575	571	606	609	0	0	0	0	1	9	+1.0000e+000	0	0
552	570	567	612	615	0	0	0	0	1	9	+1.0000e+000	0	0
553	579	573	583	610	0	0	0	0	1	9	+1.0000e+000	0	0
554	574	570	615	617	0	0	0	0	1	9	+1.0000e+000	0	0
555	581	575	609	614	0	0	0	0	1	9	+1.0000e+000	0	0
556	585	577	601	613	0	0	0	0	1	9	+1.0000e+000	0	0
557	576	574	617	619	0	0	0	0	1	9	+1.0000e+000	0	0
558	601	579	610	616	0	0	0	0	1	9	+1.0000e+000	0	0
559	580	576	619	620	0	0	0	0	1	9	+1.0000e+000	0	0
560	583	581	614	618	0	0	0	0	1	9	+1.0000e+000	0	0
561	582	580	620	623	0	0	0	0	1	9	+1.0000e+000	0	0
562	610	583	618	622	0	0	0	0	1	9	+1.0000e+000	0	0
563	613	601	616	621	0	0	0	0	1	9	+1.0000e+000	0	0
564	606	582	623	624	0	0	0	0	1	9	+1.0000e+000	0	0
565	609	606	624	626	0	0	0	0	1	9	+1.0000e+000	0	0
566	616	610	622	625	0	0	0	0	1	9	+1.0000e+000	0	0
567	614	609	626	627	0	0	0	0	1	9	+1.0000e+000	0	0
568	621	616	625	628	0	0	0	0	1	9	+1.0000e+000	0	0
569	618	614	627	629	0	0	0	0	1	9	+1.0000e+000	0	0
570	584	599	634	633	0	0	0	0	3	4	+1.0000e+000	0	0
571	600	584	633	635	0	0	0	0	1	4	+1.0000e+000	0	0
572	589	588	636	637	0	0	0	0	3	4	+1.0000e+000	0	0
573	590	589	637	638	0	0	0	0	3	4	+1.0000e+000	0	0
574	591	590	638	639	0	0	0	0	3	4	+1.0000e+000	0	0
575	592	591	639	640	0	0	0	0	3	4	+1.0000e+000	0	0
576	593	592	640	641	0	0	0	0	3	4	+1.0000e+000	0	0
577	594	593	641	642	0	0	0	0	3	4	+1.0000e+000	0	0
578	595	594	642	643	0	0	0	0	3	4	+1.0000e+000	0	0
579	596	595	643	644	0	0	0	0	3	4	+1.0000e+000	0	0
580	597	596	644	645	0	0	0	0	3	4	+1.0000e+000	0	0

581	598	597	645	646	0	0	0	0	3	4	+1.0000e+000	0	0
582	599	598	646	634	0	0	0	0	3	4	+1.0000e+000	0	0
583	607	600	635	647	0	0	0	0	1	9	+1.0000e+000	0	0
584	586	605	655	656	0	0	0	0	3	4	+1.0000e+000	0	0
585	587	586	656	657	0	0	0	0	3	4	+1.0000e+000	0	0
586	588	587	657	636	0	0	0	0	3	4	+1.0000e+0	0	0
587	603	602	652	653	0	0	0	0	3	4	+1.0000e+000	0	0
588	604	603	653	654	0	0	0	0	3	4	+1.0000e+000	0	0
589	605	604	654	655	0	0	0	0	3	4	+1.0000e+000	0	0
590	622	618	629	630	0	0	0	0	1	9	+1.0000e+000	0	0
591	608	607	647	648	0	0	0	0	1	9	+1.0000e+000	0	0
592	611	608	648	649	0	0	0	0	1	9	+1.0000e+000	0	0
593	612	611	649	650	0	0	0	0	1	9	+1.0000e+000	0	0
594	625	622	630	631	0	0	0	0	1	9	+1.0000e+000	0	0
595	615	612	650	651	0	0	0	0	1	9	+1.0000e+000	0	0
596	617	615	651	658	0	0	0	0	1	9	+1.0000e+000	0	0
597	619	617	658	659	0	0	0	0	1	9	+1.0000e+000	0	0
598	628	625	631	632	0	0	0	0	1	9	+1.0000e+000	0	0
599	620	619	659	660	0	0	0	0	1	9	+1.0000e+000	0	0
600	623	620	660	661	0	0	0	0	1	9	+1.0000e+000	0	0
601	624	623	661	662	0	0	0	0	1	9	+1.0000e+000	0	0
602	626	624	662	663	0	0	0	0	1	9	+1.0000e+000	0	0
603	627	626	663	664	0	0	0	0	1	9	+1.0000e+000	0	0
604	629	627	664	665	0	0	0	0	1	9	+1.0000e+000	0	0
605	630	629	665	666	0	0	0	0	1	9	+1.0000e+000	0	0
606	631	630	666	667	0	0	0	0	1	9	+1.0000e+000	0	0
607	632	631	667	668	0	0	0	0	1	9	+1.0000e+000	0	0
608	668	667	670	669	0	0	0	0	1	9	+1.0000e+000	0	0
609	667	666	671	670	0	0	0	0	1	9	+1.0000e+000	0	0
610	666	665	672	671	0	0	0	0	1	9	+1.0000e+000	0	0

611	665	664	673	672	0	0	0	0	1	9	+1.0000e+00	0	0
612	664	663	675	673	0	0	0	0	1	9	+1.0000e+000	0	0
613	663	662	676	675	0	0	0	0	1	9	+1.0000e+000	0	0
614	662	661	678	676	0	0	0	0	1	9	+1.0000e+000	0	0
615	661	660	679	678	0	0	0	0	1	9	+1.0000e+000	0	0
616	660	659	682	679	0	0	0	0	1	9	+1.0000e+000	0	0
617	659	658	683	682	0	0	0	0	1	9	+1.0000e+000	0	0
618	669	670	677	674	0	0	0	0	1	9	+1.0000e+000	0	0
619	658	651	685	683	0	0	0	0	1	9	+1.0000e+000	0	0
620	651	650	687	685	0	0	0	0	1	9	+1.0000e+000	0	0
621	650	649	690	687	0	0	0	0	1	9	+1.0000e+000	0	0
622	670	671	680	677	0	0	0	0	1	9	+1.0000e+000	0	0
623	649	648	691	690	0	0	0	0	1	9	+1.0000e+000	0	0
624	648	647	694	691	0	0	0	0	1	9	+1.0000e+000	0	0
625	633	634	698	695	0	0	0	0	3	4	+1.0000e+000	0	0
626	635	633	695	699	0	0	0	0	1	4	+1.0000e+000	0	0
627	634	646	697	698	0	0	0	0	3	4	+1.0000e+000	0	0
628	647	635	699	694	0	0	0	0	1	9	+1.0000e+000	0	0
629	646	645	696	697	0	0	0	0	3	4	+1.0000e+000	0	0
630	639	638	700	701	0	0	0	0	3	4	+1.0000e+000	0	0
631	640	639	701	702	0	0	0	0	3	4	+1.0000e+000	0	0
632	641	640	702	703	0	0	0	0	3	4	+1.0000e+000	0	0
633	642	641	703	704	0	0	0	0	3	4	+1.0000e+000	0	0
634	643	642	704	705	0	0	0	0	3	4	+1.0000e+000	0	0
635	644	643	705	706	0	0	0	0	3	4	+1.0000e+00	0	0
636	645	644	706	696	0	0	0	0	3	4	+1.0000e+00	0	0
637	636	657	712	713	0	0	0	0	3	4	+1.0000e+000	0	0
638	637	636	713	714	0	0	0	0	3	4	+1.0000e+000	0	0
639	638	637	714	700	0	0	0	0	3	4	+1.0000e+000	0	0
640	653	652	707	708	0	0	0	0	3	4	+1.0000e+000	0	0

641	654	653	708	709	0	0	0	0	3	4	+1.0000e+000	0	0
642	655	654	709	710	0	0	0	0	3	4	+1.0000e+000	0	0
643	656	655	710	711	0	0	0	0	3	4	+1.0000e+000	0	0
644	657	656	711	712	0	0	0	0	3	4	+1.0000e+000	0	0
645	671	672	684	680	0	0	0	0	1	9	+1.0000e+000	0	0
646	672	673	688	684	0	0	0	0	1	9	+1.0000e+000	0	0
647	674	677	686	681	0	0	0	0	1	9	+1.0000e+000	0	0
648	673	675	692	688	0	0	0	0	1	9	+1.0000e+000	0	0
649	677	680	693	686	0	0	0	0	1	9	+1.0000e+000	0	0
650	675	676	715	692	0	0	0	0	1	9	+1.0000e+000	0	0
651	676	678	719	715	0	0	0	0	1	9	+1.0000e+000	0	0
652	681	686	716	689	0	0	0	0	1	9	+1.0000e+000	0	0
653	680	684	718	693	0	0	0	0	1	9	+1.0000e+000	0	0
654	678	679	720	719	0	0	0	0	1	9	+1.0000e+000	0	0
655	679	682	725	720	0	0	0	0	1	9	+1.0000e+000	0	0
656	684	688	721	718	0	0	0	0	1	9	+1.0000e+000	0	0
657	686	693	722	716	0	0	0	0	1	9	+1.0000e+000	0	0
658	682	683	727	725	0	0	0	0	1	9	+1.0000e+000	0	0
659	689	716	724	717	0	0	0	0	1	9	+1.0000e+000	0	0
660	688	692	726	721	0	0	0	0	1	9	+1.0000e+000	0	0
661	683	685	730	727	0	0	0	0	1	9	+1.0000e+000	0	0
662	693	718	728	722	0	0	0	0	1	9	+1.0000e+000	0	0
663	685	687	734	730	0	0	0	0	1	9	+1.0000e+000	0	0
664	692	715	731	726	0	0	0	0	1	9	+1.0000e+000	0	0
665	687	698	737	734	0	0	0	0	1	9	+1.0000e+000	0	0
666	716	722	732	724	0	0	0	0	1	9	+1.0000e+000	0	0
667	717	724	733	723	0	0	0	0	1	9	+1.0000e+000	0	0
668	690	691	740	737	0	0	0	0	1	9	+1.0000e+000	0	0
669	715	719	736	731	0	0	0	0	1	9	+1.0000e+000	0	0
670	718	721	735	728	0	0	0	0	1	9	+1.0000e+000	0	0

671	691	694	744	740	0	0	0	0	1	9	+1.0000e+000	0	0
672	719	720	741	736	0	0	0	0	1	9	+1.0000e+000	0	0
673	694	699	749	744	0	0	0	0	1	9	+1.0000e+000	0	0
674	722	728	738	732	0	0	0	0	1	9	+1.0000e+000	0	0
675	695	698	748	746	0	0	0	0	3	4	+1.0000e+000	0	0
676	699	695	746	749	0	0	0	0	1	4	+1.0000e+000	0	0
677	723	733	739	729	0	0	0	0	1	9	+1.0000e+000	0	0
678	698	697	747	748	0	0	0	0	3	4	+1.0000e+000	0	0
679	696	706	756	757	0	0	0	0	3	4	+1.0000e+000	0	0
680	697	696	757	747	0	0	0	0	3	4	+1.0000e+000	0	0
681	701	700	750	751	0	0	0	0	3	4	+1.0000e+000	0	0
682	702	701	751	752	0	0	0	0	3	4	+1.0000e+000	0	0
683	703	702	752	753	0	0	0	0	3	4	+1.0000e+000	0	0
684	704	703	753	754	0	0	0	0	3	4	+1.0000e+000	0	0
685	705	704	754	755	0	0	0	0	3	4	+1.0000e+000	0	0
686	706	705	755	756	0	0	0	0	3	4	+1.0000e+000	0	0
687	700	714	764	750	0	0	0	0	3	4	+1.0000e+000	0	0
688	709	708	758	759	0	0	0	0	3	4	+1.0000e+000	0	0
689	710	709	759	760	0	0	0	0	3	4	+1.0000e+000	0	0
690	711	710	760	761	0	0	0	0	3	4	+1.0000e+000	0	0
691	712	711	761	762	0	0	0	0	3	4	+1.0000e+000	0	0
692	713	712	762	763	0	0	0	0	3	4	+1.0000e+000	0	0
693	714	713	763	764	0	0	0	0	3	4	+1.0000e+000	0	0
694	708	707	765	758	0	0	0	0	3	4	+1.0000e+000	0	0
695	721	726	742	735	0	0	0	0	1	9	+1.0000e+000	0	0
696	724	732	743	733	0	0	0	0	1	9	+1.0000e+000	0	0
697	720	725	745	741	0	0	0	0	1	9	+1.0000e+000	0	0
698	726	731	766	742	0	0	0	0	1	9	+1.0000e+000	0	0
699	725	727	768	745	0	0	0	0	1	9	+1.0000e+000	0	0
700	728	735	767	738	0	0	0	0	1	9	+1.0000e+000	0	0

701	732	738	769	743	0	0	0	0	1	9	+1.0000e+000	0	0
702	733	743	770	739	0	0	0	0	1	9	+1.0000e+000	0	0
703	727	730	772	768	0	0	0	0	1	9	+1.0000e+000	0	0
704	731	736	771	766	0	0	0	0	1	9	+1.0000e+000	0	0
705	735	742	773	767	0	0	0	0	1	9	+1.0000e+000	0	0
706	730	734	774	772	0	0	0	0	1	9	+1.0000e+000	0	0
707	736	741	775	771	0	0	0	0	1	9	+1.0000e+000	0	0
708	734	737	779	774	0	0	0	0	1	9	+1.0000e+000	0	0
709	738	767	776	769	0	0	0	0	1	9	+1.0000e+000	0	0
710	743	769	777	770	0	0	0	0	1	9	+1.0000e+000	0	0
711	742	766	778	773	0	0	0	0	1	9	+1.0000e+000	0	0
712	737	740	781	779	0	0	0	0	1	9	+1.0000e+000	0	0
713	741	745	780	775	0	0	0	0	1	9	+1.0000e+000	0	0
714	740	744	786	781	0	0	0	0	1	9	+1.0000e+000	0	0
715	767	773	782	776	0	0	0	0	1	9	+1.0000e+000	0	0
716	745	768	784	780	0	0	0	0	1	9	+1.0000e+000	0	0
717	766	771	783	778	0	0	0	0	1	9	+1.0000e+000	0	0
718	744	749	792	786	0	0	0	0	1	9	+1.0000e+000	0	0
719	769	776	785	777	0	0	0	0	1	9	+1.0000e+000	0	0
720	746	748	791	787	0	0	0	0	3	4	+1.0000e+000	0	0
721	749	746	787	792	0	0	0	0	1	4	+1.0000e+000	0	0
722	747	757	789	790	0	0	0	0	3	4	+1.0000e+000	0	0
723	748	747	790	791	0	0	0	0	3	4	+1.0000e+000	0	0
724	757	756	788	789	0	0	0	0	3	4	+1.0000e+000	0	0
725	752	751	793	794	0	0	0	0	3	4	+1.0000e+000	0	0
726	753	752	794	795	0	0	0	0	3	4	+1.0000e+000	0	0
727	754	753	795	796	0	0	0	0	3	4	+1.0000e+000	0	0
728	755	754	796	797	0	0	0	0	3	4	+1.0000e+000	0	0
729	756	755	797	788	0	0	0	0	3	4	+1.0000e+000	0	0
730	750	764	802	803	0	0	0	0	3	4	+1.0000e+000	0	0

731	751	750	803	793	0	0	0	0	3	4	+1.0000e+000	0	0
732	761	760	798	799	0	0	0	0	3	4	+1.0000e+000	0	0
733	762	761	799	800	0	0	0	0	3	4	+1.0000e+000	0	0
734	763	762	800	801	0	0	0	0	3	4	+1.0000e+000	0	0
735	764	763	801	802	0	0	0	0	3	4	+1.0000e+000	0	0
736	758	765	805	806	0	0	0	0	3	4	+1.0000e+000	0	0
737	759	758	806	807	0	0	0	0	3	4	+1.0000e+000	0	0
738	760	759	807	798	0	0	0	0	3	4	+1.0000e+000	0	0
739	768	772	804	784	0	0	0	0	1	9	+1.0000e+000	0	0
740	771	775	808	783	0	0	0	0	1	9	+1.0000e+000	0	0
741	773	778	809	782	0	0	0	0	1	9	+1.0000e+000	0	0
742	772	774	811	804	0	0	0	0	1	9	+1.0000e+000	0	0
743	776	782	810	785	0	0	0	0	1	9	+1.0000e+000	0	0
744	775	780	812	808	0	0	0	0	1	9	+1.0000e+000	0	0
745	774	779	814	811	0	0	0	0	1	9	+1.0000e+000	0	0
746	778	783	813	809	0	0	0	0	1	9	+1.0000e+000	0	0
747	780	784	815	812	0	0	0	0	1	9	+1.0000e+000	0	0
748	779	781	817	814	0	0	0	0	1	9	+1.0000e+000	0	0
749	782	809	816	810	0	0	0	0	1	9	+1.0000e+000	0	0
750	783	808	818	813	0	0	0	0	1	9	+1.0000e+000	0	0
751	781	786	820	817	0	0	0	0	1	9	+1.0000e+000	0	0
752	784	804	819	815	0	0	0	0	1	9	+1.0000e+000	0	0
753	786	792	827	820	0	0	0	0	1	9	+1.0000e+000	0	0
754	809	813	821	816	0	0	0	0	1	9	+1.0000e+000	0	0
755	808	812	822	818	0	0	0	0	1	9	+1.0000e+000	0	0
756	787	791	826	823	0	0	0	0	3	4	+1.0000e+000	0	0
757	792	787	823	827	0	0	0	0	1	4	+1.0000e+000	0	0
758	790	789	824	825	0	0	0	0	3	4	+1.0000e+000	0	0
759	791	790	825	826	0	0	0	0	3	4	+1.0000e+000	0	0
760	788	797	832	833	0	0	0	0	3	4	+1.0000e+000	0	0

761	789	788	833	824	0	0	0	0	3	4	+1.0000e+000	0	0
762	794	793	828	829	0	0	0	0	3	4	+1.0000e+000	0	0
763	795	794	829	830	0	0	0	0	3	4	+1.0000e+000	0	0
764	796	795	830	831	0	0	0	0	3	4	+1.0000e+000	0	0
765	797	796	831	832	0	0	0	0	3	4	+1.0000e+000	0	0
766	804	811	834	819	0	0	0	0	1	9	+1.0000e+000	0	0
767	793	803	839	828	0	0	0	0	3	4	+1.0000e+000	0	0
768	800	799	835	836	0	0	0	0	3	4	+1.0000e+000	0	0
769	801	800	836	837	0	0	0	0	3	4	+1.0000e+000	0	0
770	802	801	837	838	0	0	0	0	3	4	+1.0000e+000	0	0
771	803	802	838	839	0	0	0	0	3	4	+1.0000e+000	0	0
772	798	807	842	843	0	0	0	0	3	4	+1.0000e+000	0	0
773	799	798	843	835	0	0	0	0	3	4	+1.0000e+000	0	0
774	806	805	840	841	0	0	0	0	3	4	+1.0000e+000	0	0
775	807	806	841	842	0	0	0	0	3	4	+1.0000e+000	0	0
776	811	814	846	834	0	0	0	0	1	9	+1.0000e+000	0	0
777	812	815	844	822	0	0	0	0	1	9	+1.0000e+000	0	0
778	813	818	845	821	0	0	0	0	1	9	+1.0000e+000	0	0
779	814	817	847	846	0	0	0	0	1	9	+1.0000e+000	0	0
780	815	819	848	844	0	0	0	0	1	9	+1.0000e+000	0	0
781	818	822	849	845	0	0	0	0	1	9	+1.0000e+000	0	0
782	817	820	850	847	0	0	0	0	1	9	+1.0000e+000	0	0
783	819	834	851	848	0	0	0	0	1	9	+1.0000e+000	0	0
784	820	827	858	850	0	0	0	0	1	9	+1.0000e+000	0	0
785	822	844	852	849	0	0	0	0	1	9	+1.0000e+000	0	0
786	823	826	857	853	0	0	0	0	3	4	+1.0000e+000	0	0
787	827	823	853	858	0	0	0	0	1	4	+1.0000e+000	0	0
788	824	833	854	855	0	0	0	0	3	4	+1.0000e+000	0	0
789	825	824	855	856	0	0	0	0	3	4	+1.0000e+000	0	0
790	826	825	856	857	0	0	0	0	3	4	+1.0000e+000	0	0

791	830	829	859	860	0	0	0	0	3	4	+1.0000e+000	0	0
792	831	830	860	861	0	0	0	0	3	4	+1.0000e+000	0	0
793	832	831	861	862	0	0	0	0	3	4	+1.0000e+000	0	0
794	833	832	862	854	0	0	0	0	3	4	+1.0000e+000	0	0
795	828	839	866	867	0	0	0	0	3	4	+1.0000e+000	0	0
796	829	828	867	859	0	0	0	0	3	4	+1.0000e+000	0	0
797	837	836	863	864	0	0	0	0	3	4	+1.0000e+000	0	0
798	838	837	864	865	0	0	0	0	3	4	+1.0000e+000	0	0
799	839	838	865	866	0	0	0	0	3	4	+1.0000e+000	0	0
800	835	843	871	872	0	0	0	0	3	4	+1.0000e+000	0	0
801	836	835	872	863	0	0	0	0	3	4	+1.0000e+000	0	0
802	841	840	868	869	0	0	0	0	3	4	+1.0000e+000	0	0
803	842	841	869	870	0	0	0	0	3	4	+1.0000e+000	0	0
804	843	842	870	871	0	0	0	0	3	4	+1.0000e+000	0	0
805	834	846	873	851	0	0	0	0	1	9	+1.0000e+000	0	0
806	844	848	874	852	0	0	0	0	1	9	+1.0000e+000	0	0
807	846	847	875	873	0	0	0	0	1	9	+1.0000e+000	0	0
808	848	851	876	874	0	0	0	0	1	9	+1.0000e+000	0	0
809	847	850	877	875	0	0	0	0	1	9	+1.0000e+000	0	0
810	850	858	880	877	0	0	0	0	1	9	+1.0000e+000	0	0
811	851	873	878	876	0	0	0	0	1	9	+1.0000e+000	0	0
812	858	853	879	880	0	0	0	0	1	4	+1.0000e+000	0	0
813	853	857	884	879	0	0	0	0	3	4	+1.0000e+000	0	0
814	855	854	881	882	0	0	0	0	3	4	+1.0000e+000	0	0
815	856	855	882	883	0	0	0	0	3	4	+1.0000e+000	0	0
816	857	856	883	884	0	0	0	0	3	4	+1.0000e+000	0	0
817	854	862	888	881	0	0	0	0	3	4	+1.0000e+000	0	0
818	860	859	885	886	0	0	0	0	3	4	+1.0000e+000	0	0
819	861	860	886	887	0	0	0	0	3	4	+1.0000e+000	0	0
820	862	861	887	888	0	0	0	0	3	4	+1.0000e+000	0	0

821	859	867	893	885	0	0	0	0	3	4	+1.0000e+000	0	0
822	864	863	889	890	0	0	0	0	3	4	+1.0000e+000	0	0
823	865	864	890	891	0	0	0	0	3	4	+1.0000e+000	0	0
824	866	865	891	892	0	0	0	0	3	4	+1.0000e+000	0	0
825	867	866	892	893	0	0	0	0	3	4	+1.0000e+000	0	0
826	863	872	896	889	0	0	0	0	3	4	+1.0000e+000	0	0
827	871	870	894	895	0	0	0	0	3	4	+1.0000e+000	0	0
828	872	871	895	896	0	0	0	0	3	4	+1.0000e+000	0	0
829	869	868	897	898	0	0	0	0	3	4	+1.0000e+000	0	0
830	870	869	898	894	0	0	0	0	3	4	+1.0000e+000	0	0
831	873	875	899	878	0	0	0	0	1	9	+1.0000e+000	0	0
832	875	877	900	899	0	0	0	0	1	9	+1.0000e+000	0	0
833	877	880	901	900	0	0	0	0	1	9	+1.0000e+000	0	0
834	879	884	905	0	0	0	0	0	4	3	+1.0000e+000	0	0
835	880	879	905	901	0	0	0	0	4	9	+1.0000e+000	0	0
836	882	881	902	903	0	0	0	0	4	4	+1.0000e+000	0	0
837	883	882	903	904	0	0	0	0	4	4	+1.0000e+000	0	0
838	884	883	904	905	0	0	0	0	4	4	+1.0000e+000	0	0
839	881	888	909	902	0	0	0	0	4	4	+1.0000e+000	0	0
840	886	885	906	907	0	0	0	0	3	4	+1.0000e+000	0	0
841	887	886	907	908	0	0	0	0	3	4	+1.0000e+000	0	0
842	888	887	908	909	0	0	0	0	4	4	+1.0000e+000	0	0
843	885	893	913	906	0	0	0	0	3	4	+1.0000e+000	0	0
844	891	890	910	911	0	0	0	0	3	4	+1.0000e+000	0	0
845	892	891	911	912	0	0	0	0	3	4	+1.0000e+000	0	0
846	893	892	912	913	0	0	0	0	3	4	+1.0000e+000	0	0
847	889	896	916	917	0	0	0	0	3	4	+1.0000e+000	0	0
848	890	889	917	910	0	0	0	0	3	4	+1.0000e+000	0	0
849	895	894	914	915	0	0	0	0	3	4	+1.0000e+000	0	0
850	896	895	915	916	0	0	0	0	3	4	+1.0000e+000	0	0

851	894	898	919	914	0	0	0	0	3	4	+1.0000e+000	0	0
852	898	897	918	919	0	0	0	0	3	4	+1.0000e+000	0	0
853	901	905	922	923	0	0	0	0	3	4	+1.0000e+000	0	0
854	904	903	920	921	0	0	0	0	3	4	+1.0000e+000	0	0
855	905	904	921	922	0	0	0	0	3	4	+1.0000e+000	0	0
856	902	909	925	926	0	0	0	0	3	4	+1.0000e+000	0	0
857	903	902	926	920	0	0	0	0	3	4	+1.0000e+000	0	0
858	909	908	924	925	0	0	0	0	3	4	+1.0000e+000	0	0
859	906	913	928	929	0	0	0	0	3	4	+1.0000e+000	0	0
860	907	906	929	930	0	0	0	0	3	4	+1.0000e+000	0	0
861	908	907	930	924	0	0	0	0	3	4	+1.0000e+000	0	0
862	913	912	927	928	0	0	0	0	3	4	+1.0000e+000	0	0
863	910	917	932	933	0	0	0	0	3	4	+1.0000e+000	0	0
864	911	910	933	934	0	0	0	0	3	4	+1.0000e+000	0	0
865	912	911	934	927	0	0	0	0	3	4	+1.0000e+000	0	0
866	917	916	931	932	0	0	0	0	3	4	+1.0000e+000	0	0
867	914	919	935	936	0	0	0	0	3	4	+1.0000e+000	0	0
868	915	914	936	937	0	0	0	0	3	4	+1.0000e+000	0	0
869	916	915	937	931	0	0	0	0	3	4	+1.0000e+000	0	0
870	919	918	938	935	0	0	0	0	3	4	+1.0000e+000	0	0
871	922	921	939	940	0	0	0	0	3	4	+1.0000e+000	0	0
872	923	922	940	941	0	0	0	0	3	4	+1.0000e+000	0	0
873	920	926	943	944	0	0	0	0	3	4	+1.0000e+000	0	0
874	921	920	944	939	0	0	0	0	3	4	+1.0000e+000	0	0
875	926	925	942	943	0	0	0	0	3	4	+1.0000e+000	0	0
876	924	930	946	947	0	0	0	0	3	4	+1.0000e+000	0	0
877	925	924	947	942	0	0	0	0	3	4	+1.0000e+000	0	0
878	930	929	945	946	0	0	0	0	3	4	+1.0000e+000	0	0
879	927	934	949	950	0	0	0	0	3	4	+1.0000e+000	0	0
880	928	927	950	951	0	0	0	0	3	4	+1.0000e+000	0	0

881	929	928	951	945	0	0	0	0	3	4	+1.0000e+000	0 0
882	934	933	948	949	0	0	0	0	3	4	+1.0000e+000	0 0
883	931	937	952	953	0	0	0	0	3	4	+1.0000e+000	0 0
884	932	931	953	954	0	0	0	0	3	4	+1.0000e+000	0 0
885	933	932	954	948	0	0	0	0	3	4	+1.0000e+000	0 0
886	935	938	955	956	0	0	0	0	3	4	+1.0000e+000	0 0
887	936	935	956	957	0	0	0	0	3	4	+1.0000e+000	0 0
888	937	936	957	952	0	0	0	0	3	4	+1.0000e+000	0 0
889	941	940	958	959	0	0	0	0	3	4	+1.0000e+000	0 0
890	939	944	961	962	0	0	0	0	3	4	+1.0000e+000	0 0
891	940	939	962	958	0	0	0	0	3	4	+1.0000e+000	0 0
892	944	943	960	961	0	0	0	0	3	4	+1.0000e+000	0 0
893	942	947	964	965	0	0	0	0	3	4	+1.0000e+000	0 0
894	943	942	965	960	0	0	0	0	3	4	+1.0000e+000	0 0
895	947	946	963	964	0	0	0	0	3	4	+1.0000e+000	0 0
896	945	951	968	969	0	0	0	0	3	4	+1.0000e+000	0 0
897	946	945	969	963	0	0	0	0	3	4	+1.0000e+000	0 0
898	950	949	966	967	0	0	0	0	3	4	+1.0000e+000	0 0
899	951	950	967	968	0	0	0	0	3	4	+1.0000e+000	0 0
900	948	954	970	971	0	0	0	0	3	4	+1.0000e+000	0 0
901	949	948	971	966	0	0	0	0	3	4	+1.0000e+000	0 0
902	952	957	973	974	0	0	0	0	3	4	+1.0000e+000	0 0
903	953	952	974	975	0	0	0	0	3	4	+1.0000e+000	0 0
904	954	953	975	970	0	0	0	0	3	4	+1.0000e+000	0 0
905	957	956	972	973	0	0	0	0	3	4	+1.0000e+000	0 0
906	956	955	976	972	0	0	0	0	3	4	+1.0000e+000	0 0
907	958	962	977	978	0	0	0	0	3	4	+1.0000e+000	0 0
908	959	958	978	979	0	0	0	0	3	4	+1.0000e+000	0 0
909	960	965	981	982	0	0	0	0	3	4	+1.0000e+000	0 0
910	961	960	982	983	0	0	0	0	3	4	+1.0000e+000	0 0

911	962	961	983	977	0	0	0	0	3	4	+1.0000e+000	0 0
912	965	964	980	981	0	0	0	0	3	4	+1.0000e+000	0 0
913	963	969	985	986	0	0	0	0	3	4	+1.0000e+000	0 0
914	964	963	986	980	0	0	0	0	3	4	+1.0000e+000	0 0
915	969	968	984	985	0	0	0	0	3	4	+1.0000e+000	0 0
916	966	971	987	988	0	0	0	0	3	4	+1.0000e+000	0 0
917	967	966	988	989	0	0	0	0	3	4	+1.0000e+000	0 0
918	968	967	989	984	0	0	0	0	3	4	+1.0000e+000	0 0
919	970	975	991	992	0	0	0	0	3	4	+1.0000e+000	0 0
920	971	970	992	987	0	0	0	0	3	4	+1.0000e+000	0 0
921	975	974	990	991	0	0	0	0	3	4	+1.0000e+000	0 0
922	972	976	993	994	0	0	0	0	3	4	+1.0000e+000	0 0
923	973	972	994	995	0	0	0	0	3	4	+1.0000e+000	0 0
924	974	973	995	990	0	0	0	0	3	4	+1.0000e+000	0 0
925	978	977	996	997	0	0	0	0	3	4	+1.0000e+000	0 0
926	979	978	997	998	0	0	0	0	3	4	+1.0000e+000	0 0
927	977	983	1001	996	0	0	0	0	3	4	+1.0000e+000	0 0
928	982	981	999	1000	0	0	0	0	3	4	+1.0000e+000	0 0
929	983	982	1000	1001	0	0	0	0	3	4	+1.0000e+000	0 0
930	980	986	1003	1004	0	0	0	0	3	4	+1.0000e+000	0 0
931	981	980	1004	999	0	0	0	0	3	4	+1.0000e+000	0 0
932	986	985	1002	1003	0	0	0	0	3	4	+1.0000e+000	0 0
933	984	989	1006	1007	0	0	0	0	3	4	+1.0000e+000	0 0
934	985	984	1007	1002	0	0	0	0	3	4	+1.0000e+000	0 0
935	989	988	1005	1006	0	0	0	0	3	4	+1.0000e+000	0 0
936	987	992	1009	1010	0	0	0	0	3	4	+1.0000e+000	0 0
937	988	987	1010	1005	0	0	0	0	3	4	+1.0000e+000	0 0
938	992	991	1008	1009	0	0	0	0	3	4	+1.0000e+000	0 0
939	990	995	1011	1012	0	0	0	0	3	4	+1.0000e+000	0 0
940	991	990	1012	1008	0	0	0	0	3	4	+1.0000e+000	0 0

941	994	993	1013	1014	0	0	0	0	3	4	+1.0000e+000	0 0
942	995	994	1014	1011	0	0	0	0	3	4	+1.0000e+000	0 0
943	998	997	1015	1016	0	0	0	0	3	4	+1.0000e+000	0 0
944	996	1001	1018	1019	0	0	0	0	3	4	+1.0000e+000	0 0
945	997	996	1019	1015	0	0	0	0	3	4	+1.0000e+000	0 0
946	1001	1000	1017	1018	0	0	0	0	3	4	+1.0000e+000	0 0
947	999	1004	1020	1021	0	0	0	0	3	4	+1.0000e+000	0 0
948	1000	999	1021	1017	0	0	0	0	3	4	+1.0000e+000	0 0
949	1002	1007	1023	1024	0	0	0	0	3	4	+1.0000e+000	0 0
950	1003	1002	1024	1025	0	0	0	0	3	4	+1.0000e+000	0 0
951	1004	1003	1025	1020	0	0	0	0	3	4	+1.0000e+000	0 0
952	1007	1006	1022	1023	0	0	0	0	3	4	+1.0000e+000	0 0
953	1005	1010	1026	1027	0	0	0	0	3	4	+1.0000e+000	0 0
954	1006	1005	1027	1022	0	0	0	0	3	4	+1.0000e+000	0 0
955	1008	1012	1028	1029	0	0	0	0	3	4	+1.0000e+000	0 0
956	1009	1008	1029	1030	0	0	0	0	3	4	+1.0000e+000	0 0
957	1010	1009	1030	1026	0	0	0	0	3	4	+1.0000e+000	0 0
958	1011	1014	1032	1033	0	0	0	0	3	4	+1.0000e+000	0 0
959	1012	1011	1033	1028	0	0	0	0	3	4	+1.0000e+000	0 0
960	1014	1013	1031	1032	0	0	0	0	3	4	+1.0000e+000	0 0
961	1015	1019	1036	1037	0	0	0	0	3	4	+1.0000e+000	0 0
962	1016	1015	1037	1034	0	0	0	0	3	4	+1.0000e+000	0 0
963	1019	1018	1035	1036	0	0	0	0	3	4	+1.0000e+000	0 0
964	1017	1021	1038	1039	0	0	0	0	3	4	+1.0000e+000	0 0
965	1018	1017	1039	1035	0	0	0	0	3	4	+1.0000e+000	0 0
966	1020	1025	1041	1042	0	0	0	0	3	4	+1.0000e+000	0 0
967	1021	1020	1042	1038	0	0	0	0	3	4	+1.0000e+000	0 0
968	1025	1024	1040	1041	0	0	0	0	3	4	+1.0000e+000	0 0
969	1022	1027	1043	1044	0	0	0	0	3	4	+1.0000e+000	0 0
970	1023	1022	1044	1045	0	0	0	0	3	4	+1.0000e+000	0 0

971	1024	1023	1045	1040	0	0	0	0	3	4	+1.0000e+000	0 0
972	1026	1030	1047	1048	0	0	0	0	3	4	+1.0000e+000	0 0
973	1027	1026	1048	1043	0	0	0	0	3	4	+1.0000e+000	0 0
974	1030	1029	1046	1047	0	0	0	0	3	4	+1.0000e+000	0 0
975	1028	1033	1049	1050	0	0	0	0	3	4	+1.0000e+000	0 0
976	1029	1028	1050	1046	0	0	0	0	3	4	+1.0000e+000	0 0
977	1032	1031	1051	1052	0	0	0	0	3	4	+1.0000e+000	0 0
978	1033	1032	1052	1049	0	0	0	0	3	4	+1.0000e+000	0 0
979	1034	1037	1054	1055	0	0	0	0	3	4	+1.0000e+000	0 0
980	1037	1036	1053	1054	0	0	0	0	3	4	+1.0000e+000	0 0
981	1035	1039	1057	1058	0	0	0	0	3	4	+1.0000e+000	0 0
982	1036	1035	1058	1053	0	0	0	0	3	4	+1.0000e+000	0 0
983	1039	1038	1056	1057	0	0	0	0	3	4	+1.0000e+000	0 0
984	1038	1042	1060	1056	0	0	0	0	3	4	+1.0000e+000	0 0
985	1042	1041	1059	1060	0	0	0	0	3	4	+1.0000e+000	0 0
986	1040	1045	1062	1063	0	0	0	0	3	4	+1.0000e+000	0 0
987	1041	1040	1063	1059	0	0	0	0	3	4	+1.0000e+000	0 0
988	1045	1044	1061	1062	0	0	0	0	3	4	+1.0000e+000	0 0
989	1043	1048	1064	1065	0	0	0	0	3	4	+1.0000e+000	0 0
990	1044	1043	1065	1061	0	0	0	0	3	4	+1.0000e+000	0 0
991	1046	1050	1066	1067	0	0	0	0	3	4	+1.0000e+000	0 0
992	1047	1046	1067	1068	0	0	0	0	3	4	+1.0000e+000	0 0
993	1048	1047	1068	1064	0	0	0	0	3	4	+1.0000e+000	0 0
994	1049	1052	1069	1070	0	0	0	0	3	4	+1.0000e+000	0 0
995	1050	1049	1070	1066	0	0	0	0	3	4	+1.0000e+000	0 0
996	1052	1051	1071	1069	0	0	0	0	3	4	+1.0000e+000	0 0
997	1055	1054	1072	1073	0	0	0	0	3	4	+1.0000e+000	0 0
998	1053	1058	1075	1076	0	0	0	0	3	4	+1.0000e+000	0 0
999	1054	1053	1076	1072	0	0	0	0	3	4	+1.0000e+000	0 0
1000	1058	1057	1074	1075	0	0	0	0	3	4	+1.0000e+000	0 0

1001	1056	1060	1077	1078	0	0	0	0	3	4	+1.0000e+000	0 0
1002	1057	1056	1078	1074	0	0	0	0	3	4	+1.0000e+000	0 0
1003	1059	1063	1079	1080	0	0	0	0	3	4	+1.0000e+000	0 0
1004	1060	1059	1080	1077	0	0	0	0	3	4	+1.0000e+000	0 0
1005	1061	1065	1081	1082	0	0	0	0	3	4	+1.0000e+000	0 0
1006	1062	1061	1082	1083	0	0	0	0	3	4	+1.0000e+000	0 0
1007	1063	1062	1083	1079	0	0	0	0	3	4	+1.0000e+000	0 0
1008	1064	1068	1084	1085	0	0	0	0	3	4	+1.0000e+000	0 0
1009	1065	1064	1085	1081	0	0	0	0	3	4	+1.0000e+000	0 0
1010	1066	1070	1086	1087	0	0	0	0	3	4	+1.0000e+000	0 0
1011	1067	1066	1087	1088	0	0	0	0	3	4	+1.0000e+000	0 0
1012	1068	1067	1088	1084	0	0	0	0	3	4	+1.0000e+000	0 0
1013	1069	1071	1089	1090	0	0	0	0	3	4	+1.0000e+000	0 0
1014	1070	1069	1090	1086	0	0	0	0	3	4	+1.0000e+000	0 0
1015	1072	1076	1093	1094	0	0	0	0	3	4	+1.0000e+000	0 0
1016	1073	1072	1094	1091	0	0	0	0	3	4	+1.0000e+000	0 0
1017	1076	1075	1092	1093	0	0	0	0	3	4	+1.0000e+000	0 0
1018	1074	1078	1095	1096	0	0	0	0	3	4	+1.0000e+000	0 0
1019	1075	1074	1096	1092	0	0	0	0	3	4	+1.0000e+000	0 0
1020	1077	1080	1098	1099	0	0	0	0	3	4	+1.0000e+000	0 0
1021	1078	1077	1099	1095	0	0	0	0	3	4	+1.0000e+000	0 0
1022	1080	1079	1097	1098	0	0	0	0	3	4	+1.0000e+000	0 0
1023	1079	1083	1101	1097	0	0	0	0	3	4	+1.0000e+000	0 0
1024	1083	1082	1100	1101	0	0	0	0	3	4	+1.0000e+000	0 0
1025	1081	1085	1102	1103	0	0	0	0	3	4	+1.0000e+000	0 0
1026	1082	1081	1103	1100	0	0	0	0	3	4	+1.0000e+000	0 0
1027	1084	1088	1105	1106	0	0	0	0	3	4	+1.0000e+000	0 0
1028	1085	1084	1106	1102	0	0	0	0	3	4	+1.0000e+000	0 0
1029	1088	1087	1104	1105	0	0	0	0	3	4	+1.0000e+000	0 0
1030	1086	1090	1107	1108	0	0	0	0	3	4	+1.0000e+000	0 0

1031	1087	1086	1108	1104	0	0	0	0	3	4	+1.0000e+000	0 0
1032	1090	1089	1109	1107	0	0	0	0	3	4	+1.0000e+000	0 0
1033	1091	1094	1111	1112	0	0	0	0	3	4	+1.0000e+000	0 0
1034	1094	1093	1110	1111	0	0	0	0	3	4	+1.0000e+000	0 0
1035	1092	1096	1113	1114	0	0	0	0	3	4	+1.0000e+000	0 0
1036	1093	1092	1114	1110	0	0	0	0	3	4	+1.0000e+000	0 0
1037	1095	1099	1116	1117	0	0	0	0	3	4	+1.0000e+000	0 0
1038	1096	1095	1117	1113	0	0	0	0	3	4	+1.0000e+000	0 0
1039	1099	1098	1115	1116	0	0	0	0	3	4	+1.0000e+000	0 0
1040	1097	1101	1119	1120	0	0	0	0	3	4	+1.0000e+000	0 0
1041	1098	1097	1120	1115	0	0	0	0	3	4	+1.0000e+000	0 0
1042	1101	1100	1118	1119	0	0	0	0	3	4	+1.0000e+000	0 0
1043	1100	1103	1122	1118	0	0	0	0	3	4	+1.0000e+000	0 0
1044	1103	1102	1121	1122	0	0	0	0	3	4	+1.0000e+000	0 0
1045	1102	1106	1125	1121	0	0	0	0	3	4	+1.0000e+000	0 0
1046	1105	1104	1123	1124	0	0	0	0	3	4	+1.0000e+000	0 0
1047	1106	1105	1124	1125	0	0	0	0	3	4	+1.0000e+000	0 0
1048	1104	1108	1128	1123	0	0	0	0	3	4	+1.0000e+000	0 0
1049	1107	1109	1126	1127	0	0	0	0	3	4	+1.0000e+000	0 0
1050	1108	1107	1127	1128	0	0	0	0	3	4	+1.0000e+000	0 0
1051	1110	1114	1130	1131	0	0	0	0	3	4	+1.0000e+000	0 0
1052	1111	1110	1131	1132	0	0	0	0	3	4	+1.0000e+000	0 0
1053	1112	1111	1132	1129	0	0	0	0	3	4	+1.0000e+000	0 0
1054	1113	1117	1134	1135	0	0	0	0	3	4	+1.0000e+000	0 0
1055	1114	1113	1135	1130	0	0	0	0	3	4	+1.0000e+000	0 0
1056	1117	1116	1133	1134	0	0	0	0	3	4	+1.0000e+000	0 0
1057	1115	1120	1137	1138	0	0	0	0	3	4	+1.0000e+000	0 0
1058	1116	1115	1138	1133	0	0	0	0	3	4	+1.0000e+000	0 0
1059	1120	1119	1136	1137	0	0	0	0	3	4	+1.0000e+000	0 0
1060	1118	1122	1140	1141	0	0	0	0	3	4	+1.0000e+000	0 0

1061	1119	1118	1141	1136	0	0	0	0	3	4	+1.0000e+000	0 0
1062	1122	1121	1139	1140	0	0	0	0	3	4	+1.0000e+000	0 0
1063	1121	1125	1144	1139	0	0	0	0	3	4	+1.0000e+000	0 0
1064	1124	1123	1142	1143	0	0	0	0	3	4	+1.0000e+000	0 0
1065	1125	1124	1143	1144	0	0	0	0	3	4	+1.0000e+000	0 0
1066	1123	1128	1147	1142	0	0	0	0	3	4	+1.0000e+0[illegible]	0 0
1067	1127	1126	1145	1146	0	0	0	0	3	4	+1.0000e+00[illegible]	0 0
1068	1128	1127	1146	1147	0	0	0	0	3	4	+1.0000e+000	0 0
1069	1129	1132	1150	1151	0	0	0	0	3	4	+1.0000e+000	0 0
1070	1131	1130	1148	1149	0	0	0	0	3	4	+1.0000e+000	0 0
1071	1132	1131	1149	1150	0	0	0	0	3	4	+1.0000e+000	0 0
1072	1130	1135	1154	1148	0	0	0	0	3	4	+1.0000e+000	0 0
1073	1134	1133	1152	1153	0	0	0	0	3	4	+1.0000e+000	0 0
1074	1135	1134	1153	1154	0	0	0	0	3	4	+1.0000e+000	0 0
1075	1133	1138	1156	1152	0	0	0	0	3	4	+1.0000e+000	0 0
1076	1138	1137	1155	1156	0	0	0	0	3	4	+1.0000e+000	0 0
1077	1136	1141	1159	1160	0	0	0	0	3	4	+1.0000e+000	0 0
1078	1137	1136	1160	1155	0	0	0	0	3	4	+1.0000e+000	0 0
1079	1140	1139	1157	1158	0	0	0	0	3	4	+1.0000e+000	0 0
1080	1141	1140	1158	1159	0	0	0	0	3	4	+1.0000e+000	0 0
1081	1139	1144	1163	1157	0	0	0	0	3	4	+1.0000e+000	0 0
1082	1143	1142	1161	1162	0	0	0	0	3	4	+1.0000e+000	0 0
1083	1144	1143	1162	1163	0	0	0	0	3	4	+1.0000e+000	0 0
1084	1142	1147	1166	1161	0	0	0	0	3	4	+1.0000e+000	0 0
1085	1146	1145	1164	1165	0	0	0	0	3	4	+1.0000e+000	0 0
1086	1147	1146	1165	1166	0	0	0	0	3	4	+1.0000e+000	0 0
1087	1151	1150	1167	1168	0	0	0	0	3	4	+1.0000e+000	0 0
1088	1148	1154	1170	1171	0	0	0	0	3	4	+1.0000e+000	0 0
1089	1149	1148	1171	1172	0	0	0	0	3	4	+1.0000e+000	0 0
1090	1150	1149	1172	1167	0	0	0	0	3	4	+1.0000e+000	0 0

1091	1154	1153	1169	1170	0	0	0	0	3	4	+1.0000e+0[illegible]	0 0
1092	1152	1156	1174	1175	0	0	0	0	3	4	+1.0000e+000	0 0
1093	1153	1152	1175	1169	0	0	0	0	3	4	+1.0000e+000	0 0
1094	1156	1155	1173	1174	0	0	0	0	3	4	+1.0000e+000	0 0
1095	1155	1160	1179	1173	0	0	0	0	3	4	+1.0000e+000	0 0
1096	1158	1157	1176	1177	0	0	0	0	3	4	+1.0000e+000	0 0
1097	1159	1158	1177	1178	0	0	0	0	3	4	+1.0000e+000	0 0
1098	1160	1159	1178	1179	0	0	0	0	3	4	+1.0000e+000	0 0
1099	1157	1163	1182	1176	0	0	0	0	3	4	+1.0000e+000	0 0
1100	1162	1161	1180	1181	0	0	0	0	3	4	+1.0000e+000	0 0
1101	1163	1162	1181	1182	0	0	0	0	3	4	+1.0000e+000	0 0
1102	1161	1166	1185	1180	0	0	0	0	3	4	+1.0000e+000	0 0
1103	1165	1164	1183	1184	0	0	0	0	3	4	+1.0000e+000	0 0
1104	1166	1165	1184	1185	0	0	0	0	3	4	+1.0000e+000	0 0
1105	1167	1172	1188	1189	0	0	0	0	3	4	+1.0000e+000	0 0
1106	1168	1167	1189	1186	0	0	0	0	3	4	+1.0000e+000	0 0
1107	1172	1171	1187	1188	0	0	0	0	3	4	+1.0000e+000	0 0
1108	1169	1175	1191	1192	0	0	0	0	3	4	+1.0000e+000	0 0
1109	1170	1169	1192	1193	0	0	0	0	3	4	+1.0000e+000	0 0
1110	1171	1170	1193	1187	0	0	0	0	3	4	+1.0000e+000	0 0
1111	1175	1174	1190	1191	0	0	0	0	3	4	+1.0000e+000	0 0
1112	1173	1179	1196	1197	0	0	0	0	3	4	+1.0000e+000	0 0
1113	1174	1173	1197	1190	0	0	0	0	3	4	+1.0000e+000	0 0
1114	1178	1177	1194	1195	0	0	0	0	3	4	+1.0000e+000	0 0
1115	1179	1178	1195	1196	0	0	0	0	3	4	+1.0000e+00[illegible]	0 0
1116	1176	1182	1200	1201	0	0	0	0	3	4	+1.0000e+0[illegible]	0 0
1117	1177	1176	1201	1194	0	0	0	0	3	4	+1.0000e+000	0 0
1118	1181	1180	1198	1199	0	0	0	0	3	4	+1.0000e+000	0 0
1119	1182	1181	1199	1200	0	0	0	0	3	4	+1.0000e+000	0 0
1120	1180	1185	1204	1198	0	0	0	0	3	4	+1.0000e+000	0 0

```
1121  1184  1183  1202  1203    0    0    0    0    3    4 +1.0000e+000
0   0
1122  1185  1184  1203  1204    0    0    0    0    3    4 +1.0000e+000
0   0
1123  1186  1189  1206  1207    0    0    0    0    3    4 +1.0000e+000
0   0
1124  1189  1188  1205  1206    0    0    0    0    3    4 +1.0000e+000
0   0
1125  1187  1193  1210  1211    0    0    0    0    3    4 +1.0000e+000
0   0
1126  1188  1187  1211  1205    0    0    0    0    3    4 +1.0000e+000
0   0
1127  1192  1191  1208  1209    0    0    0    0    3    4 +1.0000e+000
0   0
1128  1193  1192  1209  1210    0    0    0    0    3    4 +1.0000e+000
0   0
1129  1190  1197  1215  1216    0    0    0    0    3    4 +1.0000e+000
0   0
1130  1191  1190  1216  1208    0    0    0    0    3    4 +1.0000e+000
0   0
1131  1195  1194  1212  1213    0    0    0    0    3    4 +1.0000e+000
0   0
1132  1196  1195  1213  1214    0    0    0    0    3    4 +1.0000e+000
0   0
1133  1197  1196  1214  1215    0    0    0    0    3    4 +1.0000e+000
0   0
1134  1194  1201  1220  1212    0    0    0    0    3    4 +1.0000e+000
0   0
1135  1199  1198  1217  1218    0    0    0    0    3    4 +1.0000e+000
0   0
1136  1200  1199  1218  1219    0    0    0    0    3    4 +1.0000e+000
0   0
1137  1201  1200  1219  1220    0    0    0    0    3    4 +1.0000e+000
0   0
1138  1198  1204  1223  1217    0    0    0    0    3    4 +1.0000e+000
0   0
1139  1203  1202  1221  1222    0    0    0    0    3    4 +1.0000e+000
0   0
1140  1204  1203  1222  1223    0    0    0    0    3    4 +1.0000e+000
0   0
1141  1205  1211  1227  1228    0    0    0    0    3    4 +1.0000e+000
0   0
1142  1206  1205  1228  1229    0    0    0    0    3    4 +1.0000e+000
0   0
1143  1207  1206  1229  1224    0    0    0    0    3    4 +1.0000e+000
0   0
1144  1210  1209  1225  1226    0    0    0    0    3    4 +1.0000e+000
0   0
1145  1211  1210  1226  1227    0    0    0    0    3    4 +1.0000e+000
0   0
1146  1208  1216  1233  1234    0    0    0    0    3    4 +1.0000e+000
0   0
1147  1209  1208  1234  1225    0    0    0    0    3    4 +1.0000e+000
0   0
1148  1214  1213  1230  1231    0    0    0    0    3    4 +1.0000e+000
0   0
1149  1215  1214  1231  1232    0    0    0    0    3    4 +1.0000e+000
0   0
1150  1216  1215  1232  1233    0    0    0    0    3    4 +1.0000e+000
0   0
```



```
1151  1212  1220  1237  1238    0    0    0    0    3    4 +1.0000e+000
0   0
1152  1213  1212  1238  1230    0    0    0    0    3    4 +1.0000e+000
0   0
1153  1219  1218  1235  1236    0    0    0    0    3    4 +1.0000e+000
0   0
1154  1220  1219  1236  1237    0    0    0    0    3    4 +1.0000e+000
0   0
1155  1217  1223  1241  1242    0    0    0    0    3    4 +1.0000e+000
0   0
1156  1218  1217  1242  1235    0    0    0    0    3    4 +1.0000e+000
0   0
1157  1222  1221  1239  1240    0    0    0    0    3    4 +1.0000e+000
0   0
1158  1223  1222  1240  1241    0    0    0    0    3    4 +1.0000e+000
0   0
1159  1224  1229  1246  1247    0    0    0    0    3    4 +1.0000e+000
0   0
1160  1227  1226  1243  1244    0    0    0    0    3    4 +1.0000e+000
0   0
1161  1228  1227  1244  1245    0    0    0    0    3    4 +1.0000e+000
0   0
1162  1229  1228  1245  1246    0    0    0    0    3    4 +1.0000e+000
0   0
1163  1225  1234  1251  1252    0    0    0    0    3    4 +1.0000e+000
0   0
1164  1226  1225  1252  1243    0    0    0    0    3    4 +1.0000e+000
0   0
1165  1232  1231  1248  1249    0    0    0    0    3    4 +1.0000e+000
0   0
1166  1233  1232  1249  1250    0    0    0    0    3    4 +1.0000e+000
0   0
1167  1234  1233  1250  1251    0    0    0    0    3    4 +1.0000e+000
0   0
1168  1230  1238  1256  1257    0    0    0    0    3    4 +1.0000e+000
0   0
1169  1231  1230  1257  1248    0    0    0    0    3    4 +1.0000e+000
0   0
1170  1236  1235  1253  1254    0    0    0    0    3    4 +1.0000e+000
0   0
1171  1237  1236  1254  1255    0    0    0    0    3    4 +1.0000e+000
0   0
1172  1238  1237  1255  1256    0    0    0    0    3    4 +1.0000e+000
0   0
1173  1235  1242  1261  1253    0    0    0    0    3    4 +1.0000e+000
0   0
1174  1240  1239  1258  1259    0    0    0    0    3    4 +1.0000e+000
0   0
1175  1241  1240  1259  1260    0    0    0    0    3    4 +1.0000e+000
0   0
1176  1242  1241  1260  1261    0    0    0    0    3    4 +1.0000e+000
0   0
1177  1247  1246  1262  1263    0    0    0    0    3    4 +1.0000e+000
0   0
1178  1243  1252  1266  1267    0    0    0    0    3    4 +1.0000e+000
0   0
1179  1244  1243  1267  1268    0    0    0    0    3    4 +1.0000e+000
0   0
1180  1245  1244  1268  1269    0    0    0    0    3    4 +1.0000e+000
0   0
```



```
1181  1246  1245  1269  1262    0    0    0    0    3    4 +1.0000e+000
0   0
1182  1251  1250  1264  1265    0    0    0    0    3    4 +1.0000e+000
0   0
1183  1252  1251  1265  1266    0    0    0    0    3    4 +1.0000e+000
0   0
1184  1248  1257  1275  1276    0    0    0    0    3    4 +1.0000e+000
0   0
1185  1249  1248  1276  1277    0    0    0    0    3    4 +1.0000e+000
0   0
1186  1250  1249  1277  1264    0    0    0    0    3    4 +1.0000e+000
0   0
1187  1253  1261  1270  1271    0    0    0    0    3    4 +1.0000e+000
0   0
1188  1254  1253  1271  1272    0    0    0    0    3    4 +1.0000e+000
0   0
1189  1255  1254  1272  1273    0    0    0    0    3    4 +1.0000e+000
0   0
1190  1256  1255  1273  1274    0    0    0    0    3    4 +1.0000e+000
0   0
1191  1257  1256  1274  1275    0    0    0    0    3    4 +1.0000e+000
0   0
1192  1259  1258  1278  1279    0    0    0    0    3    4 +1.0000e+000
0   0
1193  1260  1259  1279  1280    0    0    0    0    3    4 +1.0000e+000
0   0
1194  1261  1260  1280  1270    0    0    0    0    3    4 +1.0000e+000
0   0
POLE            0
FLUX            0
DENSITY
+1.0000e+000 +1.0000e+000
WATERTABLE      0
qBOUNDARY       0
MATLCOLOR       4
    1    0   255   255
    2  255   255     0
    3  128   255   128
    4  255     0     0
```

8/19/2004
4:34:36 PM
0 +0.0000E+000 = Step Number, Elapsed time

Node#	Head	Flux(O)	Sum_Volume
1	+9.485500E+001	-6.634703E-001	+0.000000E+000
2	+9.988300E+001	-8.656779E-001	+0.000000E+000
3	+1.049100E+002	-6.427109E-001	+0.000000E+000
4	+1.099400E+002	-5.141342E-001	+0.000000E+000
5	+1.149700E+002	-4.098928E-001	+0.000000E+000
6	+1.200000E+002	-3.015659E-001	+0.000000E+000
7	+1.250300E+002	-1.298543E-002	+0.000000E+000
8	+1.284040E+002	+0.000000E+000	+0.000000E+000
9	+1.334078E+002	+0.000000E+000	+0.000000E+000
10	+1.369856E+002	+0.000000E+000	+0.000000E+000
11	+1.402166E+002	+0.000000E+000	+0.000000E+000
12	+1.429531E+002	+0.000000E+000	+0.000000E+000
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14	+1.469674E+002	+0.000000E+000	+0.000000E+000
15	+1.483438E+002	+0.000000E+000	+0.000000E+000
16	+1.493711E+002	+0.000000E+000	+0.000000E+000
17	+1.500881E+002	+0.000000E+000	+0.000000E+000
18	+1.504955E+002	+0.000000E+000	+0.000000E+000
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287	+1.589514E+002	+0.000000E+000	+0.000000E+000
288	+1.512755E+002	+0.000000E+000	+0.000000E+000
289	+1.517931E+002	+0.000000E+000	+0.000000E+000
290	+1.524815E+002	+0.000000E+000	+0.000000E+000
291	+1.533100E+002	+0.000000E+000	+0.000000E+000
292	+1.542454E+002	+0.000000E+000	+0.000000E+000

293	+1.552437E+002	+0.000000E+000	+0.000000E+000
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295	+1.572622E+002	+0.000000E+000	+0.000000E+000
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297	+1.590886E+002	+0.000000E+000	+0.000000E+000
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299	+1.604898E+002	+0.000000E+000	+0.000000E+000
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568	+2.088140E+002	+0.000000E+000	+0.000000E+000
569	+2.095362E+002	+0.000000E+000	+0.000000E+000
570	+1.961288E+002	+0.000000E+000	+0.000000E+000
571	+2.044159E+002	+0.000000E+000	+0.000000E+000
572	+2.100879E+002	+0.000000E+000	+0.000000E+000
573	+2.080644E+002	+0.000000E+000	+0.000000E+000
574	+1.980995E+002	+0.000000E+000	+0.000000E+000
575	+2.059183E+002	+0.000000E+000	+0.000000E+000
576	+2.080721E+002	+0.000000E+000	+0.000000E+000
577	+2.097882E+002	+0.000000E+000	+0.000000E+000
578	+2.101333E+002	+0.000000E+000	+0.000000E+000
579	+2.092392E+002	+0.000000E+000	+0.000000E+000
580	+2.020722E+002	+0.000000E+000	+0.000000E+000
581	+2.073508E+002	+0.000000E+000	+0.000000E+000
582	+2.037752E+002	+0.000000E+000	+0.000000E+000
583	+2.086840E+002	+0.000000E+000	+0.000000E+000
584	+1.815181E+002	+0.000000E+000	+0.000000E+000
585	+2.183318E+002	+0.000000E+000	+0.000000E+000
586	+1.650197E+002	+0.000000E+000	+0.000000E+000
587	+1.658148E+002	+0.000000E+000	+0.000000E+000
588	+1.667538E+002	+0.000000E+000	+0.000000E+000
589	+1.678203E+002	+0.000000E+000	+0.000000E+000
590	+1.689850E+002	+0.000000E+000	+0.000000E+000
591	+1.702066E+002	+0.000000E+000	+0.000000E+000
592	+1.714105E+002	+0.000000E+000	+0.000000E+000

593	+1.725062E+002	+0.000000E+000	+0.000000E+000
594	+1.734694E+002	+0.000000E+000	+0.000000E+000
595	+1.742674E+002	+0.000000E+000	+0.000000E+000
596	+1.747453E+002	+0.000000E+000	+0.000000E+000
597	+1.750200E+002	+0.000000E+000	+0.000000E+000
598	+1.751495E+002	+0.000000E+000	+0.000000E+000
599	+1.788592E+002	+0.000000E+000	+0.000000E+000
600	+1.861461E+002	+0.000000E+000	+0.000000E+000
601	+2.101002E+002	+0.000000E+000	+0.000000E+000
602	+1.635534E+002	+0.000000E+000	+0.000000E+000
603	+1.636473E+002	+0.000000E+000	+0.000000E+000
604	+1.639267E+002	+0.000000E+000	+0.000000E+000
605	+1.643876E+002	+0.000000E+000	+0.000000E+000
606	+2.055683E+002	+0.000000E+000	+0.000000E+000
607	+1.883995E+002	+0.000000E+000	+0.000000E+000
608	+1.906134E+002	+0.000000E+000	+0.000000E+000
609	+2.065217E+002	+0.000000E+000	+0.000000E+000
610	+2.097233E+002	+0.000000E+000	+0.000000E+000
611	+1.927858E+002	+0.000000E+000	+0.000000E+000
612	+1.949481E+002	+0.000000E+000	+0.000000E+000
613	+2.105922E+002	+0.000000E+000	+0.000000E+000
614	+2.082020E+002	+0.000000E+000	+0.000000E+000
615	+1.970413E+002	+0.000000E+000	+0.000000E+000
616	+2.104713E+002	+0.000000E+000	+0.000000E+000
617	+1.998826E+002	+0.000000E+000	+0.000000E+000
618	+2.093761E+002	+0.000000E+000	+0.000000E+000
619	+2.010370E+002	+0.000000E+000	+0.000000E+000
620	+2.028883E+002	+0.000000E+000	+0.000000E+000
621	+2.108970E+002	+0.000000E+000	+0.000000E+000
622	+2.102703E+002	+0.000000E+000	+0.000000E+000
623	+2.046342E+002	+0.000000E+000	+0.000000E+000
624	+2.062188E+002	+0.000000E+000	+0.000000E+000
625	+2.108968E+002	+0.000000E+000	+0.000000E+000
626	+2.077297E+002	+0.000000E+000	+0.000000E+000
627	+2.092112E+002	+0.000000E+000	+0.000000E+000
628	+2.112491E+002	+0.000000E+000	+0.000000E+000
629	+2.101442E+002	+0.000000E+000	+0.000000E+000
630	+2.108759E+002	+0.000000E+000	+0.000000E+000
631	+2.113681E+002	+0.000000E+000	+0.000000E+000
632	+2.116393E+002	+0.000000E+000	+0.000000E+000
633	+1.820840E+002	+0.000000E+000	+0.000000E+000
634	+1.799956E+002	+0.000000E+000	+0.000000E+000
635	+1.868016E+002	+0.000000E+000	+0.000000E+000
636	+1.673536E+002	+0.000000E+000	+0.000000E+000
637	+1.684431E+002	+0.000000E+000	+0.000000E+000
638	+1.696417E+002	+0.000000E+000	+0.000000E+000
639	+1.709131E+002	+0.000000E+000	+0.000000E+000
640	+1.721895E+002	+0.000000E+000	+0.000000E+000
641	+1.733371E+002	+0.000000E+000	+0.000000E+000
642	+1.741452E+002	+0.000000E+000	+0.000000E+000
643	+1.745721E+002	+0.000000E+000	+0.000000E+000
644	+1.748439E+002	+0.000000E+000	+0.000000E+000
645	+1.750760E+002	+0.000000E+000	+0.000000E+000
646	+1.752092E+002	+0.000000E+000	+0.000000E+000
647	+1.890417E+002	+0.000000E+000	+0.000000E+000
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664	+2.097527E+002	+0.000000E+000	+0.000000E+000
665	+2.112366E+002	+0.000000E+000	+0.000000E+000
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669	+2.125056E+002	+0.000000E+000	+0.000000E+000
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671	+2.120472E+002	+0.000000E+000	+0.000000E+000
672	+2.110858E+002	+0.000000E+000	+0.000000E+000
673	+2.105505E+002	+0.000000E+000	+0.000000E+000
674	+2.129915E+002	+0.000000E+000	+0.000000E+000
675	+2.093352E+002	+0.000000E+000	+0.000000E+000
676	+2.080388E+002	+0.000000E+000	+0.000000E+000
677	+2.131533E+002	+0.000000E+000	+0.000000E+000
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681	+2.133881E+002	+0.000000E+000	+0.000000E+000
682	+2.033129E+002	+0.000000E+000	+0.000000E+000
683	+2.014450E+002	+0.000000E+000	+0.000000E+000
684	+2.122846E+002	+0.000000E+000	+0.000000E+000
685	+1.993982E+002	+0.000000E+000	+0.000000E+000
686	+2.140255E+002	+0.000000E+000	+0.000000E+000
687	+1.971956E+002	+0.000000E+000	+0.000000E+000
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716	+2.146084E+002	+0.000000E+000	+0.000000E+000
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718	+2.129416E+002	+0.000000E+000	+0.000000E+000
719	+2.077753E+002	+0.000000E+000	+0.000000E+000
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721	+2.121282E+002	+0.000000E+000	+0.000000E+000
722	+2.141997E+002	+0.000000E+000	+0.000000E+000
723	+2.146184E+002	+0.000000E+000	+0.000000E+000
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726	+2.112232E+002	+0.000000E+000	+0.000000E+000
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738	+2.143669E+002	+0.000000E+000	+0.000000E+000
739	+2.160000E+002	+2.345896E-004	+0.000000E+000
740	+1.934644E+002	+0.000000E+000	+0.000000E+000
741	+2.078206E+002	+0.000000E+000	+0.000000E+000
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743	+2.153592E+002	+0.000000E+000	+0.000000E+000
744	+1.904056E+002	+0.000000E+000	+0.000000E+000
745	+2.063697E+002	+0.000000E+000	+0.000000E+000
746	+1.833006E+002	+0.000000E+000	+0.000000E+000
747	+1.753712E+002	+0.000000E+000	+0.000000E+000
748	+1.798184E+002	+0.000000E+000	+0.000000E+000
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753	+1.750661E+002	+0.000000E+000	+0.000000E+000
754	+1.755847E+002	+0.000000E+000	+0.000000E+000
755	+1.751819E+002	+0.000000E+000	+0.000000E+000
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757	+1.751973E+002	+0.000000E+000	+0.000000E+000
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759	+1.655942E+002	+0.000000E+000	+0.000000E+000
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765	+1.652155E+002	+0.000000E+000	+0.000000E+000
766	+2.114774E+002	+0.000000E+000	+0.000000E+000
767	+2.139269E+002	+0.000000E+000	+0.000000E+000
768	+2.047131E+002	+0.000000E+000	+0.000000E+000
769	+2.151616E+002	+0.000000E+000	+0.000000E+000
770	+2.160000E+002	+4.853271E-004	+0.000000E+000
771	+2.105541E+002	+0.000000E+000	+0.000000E+000
772	+2.028057E+002	+0.000000E+000	+0.000000E+000

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775	+2.095086E+002	+0.000000E+000	+0.000000E+000
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778	+2.128518E+002	+0.000000E+000	+0.000000E+000
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781	+1.951205E+002	+0.000000E+000	+0.000000E+000
782	+2.146628E+002	+0.000000E+000	+0.000000E+000
783	+2.121861E+002	+0.000000E+000	+0.000000E+000
784	+2.068392E+002	+0.000000E+000	+0.000000E+000
785	+2.160000E+002	+6.199615E-004	+0.000000E+000
786	+1.917348E+002	+0.000000E+000	+0.000000E+000
787	+1.836227E+002	+0.000000E+000	+0.000000E+000
788	+1.751120E+002	+0.000000E+000	+0.000000E+000
789	+1.752548E+002	+0.000000E+000	+0.000000E+000
790	+1.754842E+002	+0.000000E+000	+0.000000E+000
791	+1.785744E+002	+0.000000E+000	+0.000000E+000
792	+1.879712E+002	+0.000000E+000	+0.000000E+000
793	+1.738211E+002	+0.000000E+000	+0.000000E+000
794	+1.745503E+002	+0.000000E+000	+0.000000E+000
795	+1.759874E+002	+0.000000E+000	+0.000000E+000
796	+1.763946E+002	+0.000000E+000	+0.000000E+000
797	+1.754467E+002	+0.000000E+000	+0.000000E+000
798	+1.666084E+002	+0.000000E+000	+0.000000E+000
799	+1.672696E+002	+0.000000E+000	+0.000000E+000
800	+1.681080E+002	+0.000000E+000	+0.000000E+000
801	+1.691127E+002	+0.000000E+000	+0.000000E+000
802	+1.702774E+002	+0.000000E+000	+0.000000E+000
803	+1.715878E+002	+0.000000E+000	+0.000000E+000
804	+2.051321E+002	+0.000000E+000	+0.000000E+000
805	+1.657500E+002	+0.000000E+000	+0.000000E+000
806	+1.658458E+002	+0.000000E+000	+0.000000E+000
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810	+2.160000E+002	+6.888065E-004	+0.000000E+000
811	+2.030853E+002	+0.000000E+000	+0.000000E+000
812	+2.104893E+002	+0.000000E+000	+0.000000E+000
813	+2.139973E+002	+0.000000E+000	+0.000000E+000
814	+2.005956E+002	+0.000000E+000	+0.000000E+000
815	+2.093838E+002	+0.000000E+000	+0.000000E+000
816	+2.160000E+002	+7.635777E-004	+0.000000E+000
817	+1.975562E+002	+0.000000E+000	+0.000000E+000
818	+2.135779E+002	+0.000000E+000	+0.000000E+000
819	+2.080158E+002	+0.000000E+000	+0.000000E+000
820	+1.938106E+002	+0.000000E+000	+0.000000E+000
821	+2.160000E+002	+8.547876E-004	+0.000000E+000
822	+2.138599E+002	+0.000000E+000	+0.000000E+000
823	+1.836400E+002	+0.000000E+000	+0.000000E+000
824	+1.753015E+002	+0.000000E+000	+0.000000E+000
825	+1.756273E+002	+0.000000E+000	+0.000000E+000
826	+1.780322E+002	+0.000000E+000	+0.000000E+000
827	+1.893264E+002	+0.000000E+000	+0.000000E+000
828	+1.737162E+002	+0.000000E+000	+0.000000E+000
829	+1.753336E+002	+0.000000E+000	+0.000000E+000
830	+1.769595E+002	+0.000000E+000	+0.000000E+000
831	+1.773148E+002	+0.000000E+000	+0.000000E+000
832	+1.756384E+002	+0.000000E+000	+0.000000E+000

833	+1.751761E+002	+0.000000E+000	+0.000000E+000
834	+2.063145E+002	+0.000000E+000	+0.000000E+000
835	+1.678180E+002	+0.000000E+000	+0.000000E+000
836	+1.686605E+002	+0.000000E+000	+0.000000E+000
837	+1.696833E+002	+0.000000E+000	+0.000000E+000
838	+1.708745E+002	+0.000000E+000	+0.000000E+000
839	+1.722242E+002	+0.000000E+000	+0.000000E+000
840	+1.662750E+002	+0.000000E+000	+0.000000E+000
841	+1.663712E+002	+0.000000E+000	+0.000000E+000
842	+1.666606E+002	+0.000000E+000	+0.000000E+000
843	+1.671424E+002	+0.000000E+000	+0.000000E+000
844	+2.124179E+002	+0.000000E+000	+0.000000E+000
845	+2.160000E+002	+9.531035E-004	+0.000000E+000
846	+2.041336E+002	+0.000000E+000	+0.000000E+000
847	+2.012650E+002	+0.000000E+000	+0.000000E+000
848	+2.116046E+002	+0.000000E+000	+0.000000E+000
849	+2.160000E+002	+1.088516E-003	+0.000000E+000
850	+1.973237E+002	+0.000000E+000	+0.000000E+000
851	+2.105556E+002	+0.000000E+000	+0.000000E+000
852	+2.160000E+002	+1.238645E-003	+0.000000E+000
853	+1.838245E+002	+0.000000E+000	+0.000000E+000
854	+1.752399E+002	+0.000000E+000	+0.000000E+000
855	+1.753227E+002	+0.000000E+000	+0.000000E+000
856	+1.758078E+002	+0.000000E+000	+0.000000E+000
857	+1.774085E+002	+0.000000E+000	+0.000000E+000
858	+1.916311E+002	+0.000000E+000	+0.000000E+000
859	+1.761034E+002	+0.000000E+000	+0.000000E+000
860	+1.779842E+002	+0.000000E+000	+0.000000E+000
861	+1.784156E+002	+0.000000E+000	+0.000000E+000
862	+1.756878E+002	+0.000000E+000	+0.000000E+000
863	+1.692043E+002	+0.000000E+000	+0.000000E+000
864	+1.702454E+002	+0.000000E+000	+0.000000E+000
865	+1.714637E+002	+0.000000E+000	+0.000000E+000
866	+1.728528E+002	+0.000000E+000	+0.000000E+000
867	+1.744092E+002	+0.000000E+000	+0.000000E+000
868	+1.667903E+002	+0.000000E+000	+0.000000E+000
869	+1.668869E+002	+0.000000E+000	+0.000000E+000
870	+1.671787E+002	+0.000000E+000	+0.000000E+000
871	+1.676655E+002	+0.000000E+000	+0.000000E+000
872	+1.683427E+002	+0.000000E+000	+0.000000E+000
873	+2.091001E+002	+0.000000E+000	+0.000000E+000
874	+2.160000E+002	+1.438431E-003	+0.000000E+000
875	+2.078573E+002	+0.000000E+000	+0.000000E+000
876	+2.160000E+002	+1.707149E-003	+0.000000E+000
877	+2.041289E+002	+0.000000E+000	+0.000000E+000
878	+2.160000E+002	+2.096685E-003	+0.000000E+000
879	+1.837363E+002	+0.000000E+000	+0.000000E+000
880	+1.997909E+002	+0.000000E+000	+0.000000E+000
881	+1.753277E+002	+0.000000E+000	+0.000000E+000
882	+1.753680E+002	+0.000000E+000	+0.000000E+000
883	+1.757605E+002	+0.000000E+000	+0.000000E+000
884	+1.782406E+002	+0.000000E+000	+0.000000E+000
885	+1.768502E+002	+0.000000E+000	+0.000000E+000
886	+1.798444E+002	+0.000000E+000	+0.000000E+000
887	+1.798212E+002	+0.000000E+000	+0.000000E+000
888	+1.754732E+002	+0.000000E+000	+0.000000E+000
889	+1.697391E+002	+0.000000E+000	+0.000000E+000
890	+1.707987E+002	+0.000000E+000	+0.000000E+000
891	+1.720449E+002	+0.000000E+000	+0.000000E+000
892	+1.734712E+002	+0.000000E+000	+0.000000E+000

893	+1.750982E+002	+0.000000E+000	+0.000000E+000
894	+1.676871E+002	+0.000000E+000	+0.000000E+000
895	+1.681791E+002	+0.000000E+000	+0.000000E+000
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897	+1.672976E+002	+0.000000E+000	+0.000000E+000
898	+1.673941E+002	+0.000000E+000	+0.000000E+000
899	+2.160000E+002	+2.633754E-003	+0.000000E+000
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903	+2.031664E+002	+0.000000E+000	+0.000000E+000
904	+2.077168E+002	+0.000000E+000	+0.000000E+000
905	+2.120639E+002	+0.000000E+000	+0.000000E+000
906	+1.776934E+002	+0.000000E+000	+0.000000E+000
907	+1.796573E+002	+0.000000E+000	+0.000000E+000
908	+1.831961E+002	+0.000000E+000	+0.000000E+000
909	+1.928990E+002	+0.000000E+000	+0.000000E+000
910	+1.713432E+002	+0.000000E+000	+0.000000E+000
911	+1.726155E+002	+0.000000E+000	+0.000000E+000
912	+1.749866E+002	+0.000000E+000	+0.000000E+000
913	+1.757520E+002	+0.000000E+000	+0.000000E+000
914	+1.681857E+002	+0.000000E+000	+0.000000E+000
915	+1.686830E+002	+0.000000E+000	+0.000000E+000
916	+1.693773E+002	+0.000000E+000	+0.000000E+000
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923	+2.160000E+002	+1.235121E-001	+0.000000E+000
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925	+1.924495E+002	+0.000000E+000	+0.000000E+000
926	+1.981795E+002	+0.000000E+000	+0.000000E+000
927	+1.749678E+002	+0.000000E+000	+0.000000E+000
928	+1.767242E+002	+0.000000E+000	+0.000000E+000
929	+1.787586E+002	+0.000000E+000	+0.000000E+000
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931	+1.701336E+002	+0.000000E+000	+0.000000E+000
932	+1.718378E+002	+0.000000E+000	+0.000000E+000
933	+1.721425E+002	+0.000000E+000	+0.000000E+000
934	+1.734483E+002	+0.000000E+000	+0.000000E+000
935	+1.686284E+002	+0.000000E+000	+0.000000E+000
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938	+1.685354E+002	+0.000000E+000	+0.000000E+000
939	+2.075308E+002	+0.000000E+000	+0.000000E+000
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941	+2.160000E+002	+1.279265E-001	+0.000000E+000
942	+1.925670E+002	+0.000000E+000	+0.000000E+000
943	+1.981234E+002	+0.000000E+000	+0.000000E+000
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945	+1.797960E+002	+0.000000E+000	+0.000000E+000
946	+1.824708E+002	+0.000000E+000	+0.000000E+000
947	+1.865824E+002	+0.000000E+000	+0.000000E+000
948	+1.729131E+002	+0.000000E+000	+0.000000E+000
949	+1.742552E+002	+0.000000E+000	+0.000000E+000
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953	+1.708690E+002	+0.000000E+000	+0.000000E+000
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961	+2.029631E+002	+0.000000E+000	+0.000000E+000
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1019	+2.074246E+002	+0.000000E+000	+0.000000E+000
1020	+1.839229E+002	+0.000000E+000	+0.000000E+000
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1099	+1.919743E+002	+0.000000E+000	+0.000000E+000
1100	+1.813675E+002	+0.000000E+000	+0.000000E+000
1101	+1.834653E+002	+0.000000E+000	+0.000000E+000
1102	+1.780710E+002	+0.000000E+000	+0.000000E+000
1103	+1.795828E+002	+0.000000E+000	+0.000000E+000
1104	+1.750279E+002	+0.000000E+000	+0.000000E+000
1105	+1.758071E+002	+0.000000E+000	+0.000000E+000
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1107	+1.741491E+002	+0.000000E+000	+0.000000E+000
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1109	+1.740423E+002	+0.000000E+000	+0.000000E+000
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1113	+2.000116E+002	+0.000000E+000	+0.000000E+000
1114	+2.038484E+002	+0.000000E+000	+0.000000E+000
1115	+1.897622E+002	+0.000000E+000	+0.000000E+000
1116	+1.928986E+002	+0.000000E+000	+0.000000E+000
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1118	+1.824129E+002	+0.000000E+000	+0.000000E+000
1119	+1.845271E+002	+0.000000E+000	+0.000000E+000
1120	+1.869718E+002	+0.000000E+000	+0.000000E+000
1121	+1.790557E+002	+0.000000E+000	+0.000000E+000
1122	+1.805958E+002	+0.000000E+000	+0.000000E+000
1123	+1.759505E+002	+0.000000E+000	+0.000000E+000
1124	+1.767448E+002	+0.000000E+000	+0.000000E+000
1125	+1.777786E+002	+0.000000E+000	+0.000000E+000
1126	+1.749368E+002	+0.000000E+000	+0.000000E+000
1127	+1.750504E+002	+0.000000E+000	+0.000000E+000
1128	+1.753870E+002	+0.000000E+000	+0.000000E+000
1129	+2.160000E+002	+2.416445E-001	+0.000000E+000
1130	+2.042439E+002	+0.000000E+000	+0.000000E+000
1131	+2.080818E+002	+0.000000E+000	+0.000000E+000
1132	+2.120863E+002	+0.000000E+000	+0.000000E+000

1133	+1.936707E+002	+0.000000E+000	+0.000000E+000
1134	+1.969889E+002	+0.000000E+000	+0.000000E+000
1135	+2.005368E+002	+0.000000E+000	+0.000000E+000
1136	+1.854455E+002	+0.000000E+000	+0.000000E+000
1137	+1.878733E+002	+0.000000E+000	+0.000000E+000
1138	+1.906197E+002	+0.000000E+000	+0.000000E+000
1139	+1.799263E+002	+0.000000E+000	+0.000000E+000
1140	+1.814877E+002	+0.000000E+000	+0.000000E+000
1141	+1.833197E+002	+0.000000E+000	+0.000000E+000
1142	+1.767673E+002	+0.000000E+000	+0.000000E+000
1143	+1.775774E+002	+0.000000E+000	+0.000000E+000
1144	+1.786265E+002	+0.000000E+000	+0.000000E+000
1145	+1.757343E+002	+0.000000E+000	+0.000000E+000
1146	+1.758584E+002	+0.000000E+000	+0.000000E+000
1147	+1.761944E+002	+0.000000E+000	+0.000000E+000
1148	+2.045870E+002	+0.000000E+000	+0.000000E+000
1149	+2.083188E+002	+0.000000E+000	+0.000000E+000
1150	+2.121312E+002	+0.000000E+000	+0.000000E+000
1151	+2.160000E+002	+2.338826E-001	+0.000000E+000
1152	+1.943183E+002	+0.000000E+000	+0.000000E+000
1153	+1.975446E+002	+0.000000E+000	+0.000000E+000
1154	+2.009870E+002	+0.000000E+000	+0.000000E+000
1155	+1.886361E+002	+0.000000E+000	+0.000000E+000
1156	+1.913361E+002	+0.000000E+000	+0.000000E+000
1157	+1.806799E+002	+0.000000E+000	+0.000000E+000
1158	+1.822524E+002	+0.000000E+000	+0.000000E+000
1159	+1.840984E+002	+0.000000E+000	+0.000000E+000
1160	+1.862210E+002	+0.000000E+000	+0.000000E+000
1161	+1.774793E+002	+0.000000E+000	+0.000000E+000
1162	+1.783012E+002	+0.000000E+000	+0.000000E+000
1163	+1.793644E+002	+0.000000E+000	+0.000000E+000
1164	+1.764300E+002	+0.000000E+000	+0.000000E+000
1165	+1.765479E+002	+0.000000E+000	+0.000000E+000
1166	+1.768965E+002	+0.000000E+000	+0.000000E+000
1167	+2.122323E+002	+0.000000E+000	+0.000000E+000
1168	+2.160000E+002	+2.274889E-001	+0.000000E+000
1169	+1.980049E+002	+0.000000E+000	+0.000000E+000
1170	+2.013634E+002	+0.000000E+000	+0.000000E+000
1171	+2.048751E+002	+0.000000E+000	+0.000000E+000
1172	+2.085157E+002	+0.000000E+000	+0.000000E+000
1173	+1.892615E+002	+0.000000E+000	+0.000000E+000
1174	+1.919389E+002	+0.000000E+000	+0.000000E+000
1175	+1.948521E+002	+0.000000E+000	+0.000000E+000
1176	+1.813133E+002	+0.000000E+000	+0.000000E+000
1177	+1.828986E+002	+0.000000E+000	+0.000000E+000
1178	+1.847458E+002	+0.000000E+000	+0.000000E+000
1179	+1.868688E+002	+0.000000E+000	+0.000000E+000
1180	+1.780841E+002	+0.000000E+000	+0.000000E+000
1181	+1.789133E+002	+0.000000E+000	+0.000000E+000
1182	+1.799894E+002	+0.000000E+000	+0.000000E+000
1183	+1.770219E+002	+0.000000E+000	+0.000000E+000
1184	+1.771489E+002	+0.000000E+000	+0.000000E+000
1185	+1.774940E+002	+0.000000E+000	+0.000000E+000
1186	+2.160000E+002	+2.226547E-001	+0.000000E+000
1187	+2.051153E+002	+0.000000E+000	+0.000000E+000
1188	+2.086743E+002	+0.000000E+000	+0.000000E+000
1189	+2.123133E+002	+0.000000E+000	+0.000000E+000
1190	+1.924023E+002	+0.000000E+000	+0.000000E+000
1191	+1.952789E+002	+0.000000E+000	+0.000000E+000
1192	+1.983817E+002	+0.000000E+000	+0.000000E+000

1193	+2.816677E+002	+0.000000E+000	+0.000000E+000
1194	+1.834213E+002	+0.000000E+000	+0.000000E+000
1195	+1.852740E+002	+0.000000E+000	+0.000000E+000
1196	+1.873871E+002	+0.000000E+000	+0.000000E+000
1197	+1.897635E+002	+0.000000E+000	+0.000000E+000
1198	+1.785803E+002	+0.000000E+000	+0.000000E+000
1199	+1.794168E+002	+0.000000E+000	+0.000000E+000
1200	+1.804986E+002	+0.000000E+000	+0.000000E+000
1201	+1.818336E+002	+0.000000E+000	+0.000000E+000
1202	+1.775083E+002	+0.000000E+000	+0.000000E+000
1203	+1.776282E+002	+0.000000E+000	+0.000000E+000
1204	+1.779846E+002	+0.000000E+000	+0.000000E+000
1205	+2.087962E+002	+0.000000E+000	+0.000000E+000
1206	+2.123762E+002	+0.000000E+000	+0.000000E+000
1207	+2.160000E+002	+2.186380E-001	+0.000000E+000
1208	+1.956054E+002	+0.000000E+000	+0.000000E+000
1209	+1.986652E+002	+0.000000E+000	+0.000000E+000
1210	+2.019814E+002	+0.000000E+000	+0.000000E+000
1211	+2.052948E+002	+0.000000E+000	+0.000000E+000
1212	+1.838292E+002	+0.000000E+000	+0.000000E+000
1213	+1.856783E+002	+0.000000E+000	+0.000000E+000
1214	+1.877852E+002	+0.000000E+000	+0.000000E+000
1215	+1.901527E+002	+0.000000E+000	+0.000000E+000
1216	+1.927638E+002	+0.000000E+000	+0.000000E+000
1217	+1.789659E+002	+0.000000E+000	+0.000000E+000
1218	+1.798091E+002	+0.000000E+000	+0.000000E+000
1219	+1.808978E+002	+0.000000E+000	+0.000000E+000
1220	+1.822345E+002	+0.000000E+000	+0.000000E+000
1221	+1.778880E+002	+0.000000E+000	+0.000000E+000
1222	+1.780084E+002	+0.000000E+000	+0.000000E+000
1223	+1.783675E+002	+0.000000E+000	+0.000000E+000
1224	+2.160000E+002	+2.168760E-001	+0.000000E+000
1225	+1.986655E+002	+0.000000E+000	+0.000000E+000
1226	+2.020668E+002	+0.000000E+000	+0.000000E+000
1227	+2.054218E+002	+0.000000E+000	+0.000000E+000
1228	+2.088828E+002	+0.000000E+000	+0.000000E+000
1229	+2.124203E+002	+0.000000E+000	+0.000000E+000
1230	+1.859691E+002	+0.000000E+000	+0.000000E+000
1231	+1.880717E+002	+0.000000E+000	+0.000000E+000
1232	+1.904240E+002	+0.000000E+000	+0.000000E+000
1233	+1.930171E+002	+0.000000E+000	+0.000000E+000
1234	+1.958419E+002	+0.000000E+000	+0.000000E+000
1235	+1.808882E+002	+0.000000E+000	+0.000000E+000
1236	+1.811819E+002	+0.000000E+000	+0.000000E+000
1237	+1.825233E+002	+0.000000E+000	+0.000000E+000
1238	+1.841171E+002	+0.000000E+000	+0.000000E+000
1239	+1.781602E+002	+0.000000E+000	+0.000000E+000
1240	+1.782880E+002	+0.000000E+000	+0.000000E+000
1241	+1.786417E+002	+0.000000E+000	+0.000000E+000
1242	+1.792435E+002	+0.000000E+000	+0.000000E+000
1243	+2.021655E+002	+0.000000E+000	+0.000000E+000
1244	+2.054975E+002	+0.000000E+000	+0.000000E+000
1245	+2.089341E+002	+0.000000E+000	+0.000000E+000
1246	+2.124472E+002	+0.000000E+000	+0.000000E+000
1247	+2.160000E+002	+2.150405E-001	+0.000000E+000
1248	+1.882398E+002	+0.000000E+000	+0.000000E+000
1249	+1.905854E+002	+0.000000E+000	+0.000000E+000
1250	+1.931737E+002	+0.000000E+000	+0.000000E+000
1251	+1.959798E+002	+0.000000E+000	+0.000000E+000
1252	+1.989849E+002	+0.000000E+000	+0.000000E+000

1253	+1.802577E+002	+0.000000E+000	+0.000000E+000
1254	+1.813515E+002	+0.000000E+000	+0.000000E+000
1255	+1.826945E+002	+0.000000E+000	+0.000000E+000
1256	+1.842927E+002	+0.000000E+000	+0.000000E+000
1257	+1.861407E+002	+0.000000E+000	+0.000000E+000
1258	+1.783239E+002	+0.000000E+000	+0.000000E+000
1259	+1.784447E+002	+0.000000E+000	+0.000000E+000
1260	+1.788058E+002	+0.000000E+000	+0.000000E+000
1261	+1.794183E+002	+0.000000E+000	+0.000000E+000
1262	+2.124554E+002	+0.000000E+000	+0.000000E+000
1263	+2.160000E+002	+1.071870E-001	+0.000000E+000
1264	+1.932235E+002	+0.000000E+000	+0.000000E+000
1265	+1.960245E+002	+0.000000E+000	+0.000000E+000
1266	+1.990246E+002	+0.000000E+000	+0.000000E+000
1267	+2.021983E+002	+0.000000E+000	+0.000000E+000
1268	+2.055228E+002	+0.000000E+000	+0.000000E+000
1269	+2.089507E+002	+0.000000E+000	+0.000000E+000
1270	+1.794668E+002	+0.000000E+000	+0.000000E+000
1271	+1.803155E+002	+0.000000E+000	+0.000000E+000
1272	+1.814184E+002	+0.000000E+000	+0.000000E+000
1273	+1.827546E+002	+0.000000E+000	+0.000000E+000
1274	+1.843588E+002	+0.000000E+000	+0.000000E+000
1275	+1.861975E+002	+0.000000E+000	+0.000000E+000
1276	+1.883002E+002	+0.000000E+000	+0.000000E+000
1277	+1.906438E+002	+0.000000E+000	+0.000000E+000
1278	+1.783788E+002	+0.000000E+000	+0.000000E+000
1279	+1.784997E+002	+0.000000E+000	+0.000000E+000
1280	+1.788615E+002	+0.000000E+000	+0.000000E+000

8/19/2004
4:34:36 PM
0 +0.0000E+000 = Step Number, Elapsed time

Elem#	Pnt#	Velocity X	Velocity Y	Gradient X	Gradient Y
1	1	-2.272070E-001	-1.391417E-002	-8.017468E-001	-4.989911E-001
1	2	-1.778493E-001	-1.391417E-002	-6.275779E-001	-4.989911E-001
1	3	-1.777587E-001	-2.447432E-002	-6.272585E-001	-8.636270E-001
1	4	-2.271108E-001	-2.447434E-002	-8.014086E-001	-8.636275E-001
2	1	-1.524452E-001	-2.253645E-002	-5.379341E-001	-7.952447E-001
2	2	-1.325946E-001	-2.253645E-002	-4.678869E-001	-7.952447E-001
2	3	-1.325555E-001	-2.678405E-002	-4.677494E-001	-9.451305E-001
2	4	-1.524085E-001	-2.678406E-002	-5.378058E-001	-9.451309E-001
3	1	-1.202061E-001	-2.426369E-002	-4.241732E-001	-8.561941E-001
3	2	-1.062560E-001	-2.426369E-002	-3.749468E-001	-8.561941E-001
3	3	-1.062283E-001	-2.724706E-002	-3.748489E-001	-9.614666E-001
3	4	-1.201785E-001	-2.724702E-002	-4.240750E-001	-9.614668E-001
4	1	-9.695777E-002	-2.499854E-002	-3.421341E-001	-8.821244E-001
4	2	-8.552317E-002	-2.499854E-002	-3.017863E-001	-8.821244E-001
4	3	-8.551830E-002	-2.744495E-002	-3.017607E-001	-9.684529E-001
4	4	-9.694019E-002	-2.744496E-002	-3.420731E-001	-9.684513E-001
5	1	-7.728407E-002	-2.510347E-002	-2.727125E-001	-8.858275E-001
5	2	-6.620820E-002	-2.510347E-002	-2.336293E-001	-8.858275E-001
5	3	-6.620816E-002	-2.747204E-002	-2.336293E-001	-9.694077E-001
5	4	-7.728383E-002	-2.747204E-002	-2.727115E-001	-9.694079E-001
6	1	-5.618562E-002	-2.357518E-002	-1.982623E-001	-8.318980E-001
6	2	-3.987847E-002	-2.357518E-002	-1.407184E-001	-8.318980E-001
6	3	-3.987853E-002	-2.706255E-002	-1.407200E-001	-9.549582E-001
6	4	-5.618565E-002	-2.706261E-002	-1.982625E-001	-9.549583E-001
7	1	-3.368668E-002	-1.886855E-002	-1.188696E-001	-6.658158E-001
7	2	-3.307646E-004	-1.886852E-004	-1.167168E-001	-6.658158E-001
7	3	-3.307495E-004	-1.899930E-004	-1.167119E-001	-6.704279E-001
7	4	-3.368645E-004	-1.899930E-004	-1.188696E-001	-6.704280E-001
8	1	-2.587074E-004	-2.264695E-004	-9.129106E-002	-7.991458E-001
8	2	-6.892562E-005	-2.264695E-004	-2.432134E-002	-7.991458E-001
8	3	-6.854907E-005	-2.670564E-004	-2.418802E-002	-9.423655E-001
8	4	-2.583342E-004	-2.670569E-004	-9.115681E-002	-9.423655E-001
9	1	-5.256718E-006	-2.060483E-004	-1.854660E-003	-7.270842E-001
9	2	-2.056379E-005	-2.060483E-004	-7.257239E-003	-7.270842E-001
9	3	-2.057165E-005	-2.027719E-004	-7.259216E-003	-7.155241E-001
9	4	-5.277421E-006	-2.027723E-004	-1.862316E-003	-7.155240E-001
10	1	-2.710707E-005	-1.828445E-004	-9.594575E-003	-6.452044E-001
10	2	-2.996422E-005	-1.828445E-004	-1.057272E-002	-6.452044E-001
10	3	-2.996458E-005	-1.822506E-004	-1.057206E-002	-6.431088E-001
10	4	-2.710723E-005	-1.822505E-004	-9.593018E-003	-6.431087E-001
11	1	-3.095987E-005	-1.541536E-004	-1.092520E-002	-5.439646E-001
11	2	-3.089884E-005	-1.541536E-004	-1.090267E-002	-5.439646E-001
11	3	-3.090055E-005	-1.541668E-004	-1.090297E-002	-5.440096E-001
11	4	-3.095889E-005	-1.541672E-004	-1.092428E-002	-5.440094E-001
12	1	-3.022279E-005	-1.254519E-004	-1.066346E-002	-4.426847E-001
12	2	-2.843326E-005	-1.254519E-004	-1.003236E-002	-4.426847E-001
12	3	-2.843256E-005	-1.258352E-004	-1.003230E-002	-4.440354E-001
12	4	-3.022260E-005	-1.258352E-004	-1.066487E-002	-4.440351E-001
13	1	-2.693989E-005	-9.952655E-005	-9.507110E-003	-3.512089E-001
13	2	-2.465761E-005	-9.952655E-005	-8.700457E-003	-3.512089E-001
13	3	-2.466247E-005	-1.000153E-004	-8.702294E-003	-3.529259E-001
13	4	-2.694302E-005	-1.000157E-004	-9.507536E-003	-3.529256E-001

14	1	-2.309343E-005	-7.728263E-005	-8.149018E-003	-2.727074E-001
14	2	-2.166801E-005	-7.728263E-005	-7.644861E-003	-2.727074E-001
14	3	-2.166351E-005	-7.758898E-005	-7.644372E-003	-2.737881E-001
14	4	-2.309285E-005	-7.758891E-005	-8.149984E-003	-2.737878E-001
15	1	-2.868984E-005	-5.751590E-005	-7.301828E-003	-2.029569E-001
15	2	-1.945987E-005	-5.751590E-005	-6.866976E-003	-2.029569E-001
15	3	-1.946592E-005	-5.777871E-005	-6.867397E-003	-2.038843E-001
15	4	-2.869208E-005	-5.777864E-005	-7.301329E-003	-2.038840E-001
16	1	-1.859594E-005	-3.969774E-005	-6.598345E-003	-1.400807E-001
16	2	-1.784297E-005	-3.969774E-005	-6.295192E-003	-1.400807E-001
16	3	-1.783762E-005	-3.988076E-005	-6.294837E-003	-1.407297E-001
16	4	-1.878090E-005	-3.988161E-005	-6.599614E-003	-1.407294E-001
17	1	-1.736209E-005	-2.326650E-005	-6.126362E-003	-8.210179E-002
17	2	-1.698157E-005	-2.326650E-005	-5.965180E-003	-8.210179E-002
17	3	-1.698312E-005	-2.336442E-005	-5.964422E-003	-8.244467E-002
17	4	-1.736388E-005	-2.336434E-005	-6.126900E-003	-8.244434E-002
18	1	-1.654691E-005	-7.651478E-006	-5.838325E-003	-2.700898E-002
18	2	-1.642112E-005	-7.651478E-006	-5.794699E-003	-2.700898E-002
18	3	-1.642153E-005	-7.678527E-006	-5.794897E-003	-2.709574E-002
18	4	-1.654583E-005	-7.678445E-006	-5.838245E-003	-2.709548E-002
19	1	-1.667666E-001	-6.740629E-003	-5.884710E-001	-2.378576E-001
19	2	-1.554499E-001	-6.740632E-003	-5.485364E-001	-2.378577E-001
19	3	-1.554297E-001	-9.162018E-003	-5.484664E-001	-3.232999E-001
19	4	-1.667464E-001	-9.162018E-003	-5.883983E-001	-3.232999E-001
20	1	-1.448305E-001	-1.587203E-002	-5.118648E-001	-5.680773E-001
20	2	-1.273442E-001	-1.587204E-002	-4.493605E-001	-5.680774E-001
20	3	-1.273104E-001	-1.961264E-002	-4.492414E-001	-6.920728E-001
20	4	-1.447983E-001	-1.961264E-002	-5.189510E-001	-6.920728E-001
21	1	-1.163693E-001	-1.954804E-002	-4.186333E-001	-6.897931E-001
21	2	-1.039634E-001	-1.954804E-002	-3.668570E-001	-6.897931E-001
21	3	-1.039584E-001	-2.220186E-002	-3.668389E-001	-7.834386E-001
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22	2	-8.495231E-002	-2.100126E-002	-2.997722E-001	-7.410722E-001
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67	1	-1.875435E-004	-8.834251E-005	-6.617829E-002	-3.117355E-001
67	2	-1.679931E-004	-8.834268E-005	-5.927975E-002	-3.117353E-001
67	3	-1.679904E-004	-9.252240E-005	-5.927963E-002	-3.264844E-001
67	4	-1.875401E-004	-9.252200E-005	-6.617831E-002	-3.264847E-001
68	1	-1.571245E-004	-6.935927E-005	-5.544483E-002	-2.447489E-001
68	2	-1.469936E-004	-6.935935E-005	-5.186992E-002	-2.447487E-001
68	3	-1.470068E-004	-7.152688E-005	-5.187466E-002	-2.523949E-001
68	4	-1.571294E-004	-7.152568E-005	-5.544594E-002	-2.523933E-001
69	1	-1.482862E-004	-5.162621E-005	-4.947443E-002	-1.821744E-001
69	2	-1.322477E-004	-5.162604E-005	-4.666547E-002	-1.821742E-001
69	3	-1.322526E-004	-5.332957E-005	-4.666780E-002	-1.881853E-001
69	4	-1.482182E-004	-5.332918E-005	-4.947931E-002	-1.881837E-001
70	1	-1.272186E-004	-3.550246E-005	-4.488938E-002	-1.252778E-001
70	2	-1.214195E-004	-3.550266E-005	-4.284609E-002	-1.252781E-001
70	3	-1.214300E-004	-3.674120E-005	-4.284873E-002	-1.296499E-001
70	4	-1.272123E-004	-3.674182E-005	-4.489135E-002	-1.296484E-001
71	1	-1.178922E-004	-2.074291E-005	-4.159979E-002	-7.319555E-002
71	2	-1.144102E-004	-2.074287E-005	-4.037206E-002	-7.319538E-002
71	3	-1.144139E-004	-2.148652E-005	-4.037371E-002	-7.582113E-002
71	4	-1.178952E-004	-2.148660E-005	-4.160051E-002	-7.582147E-002
72	1	-1.126959E-004	-6.782457E-006	-3.976513E-002	-2.393378E-002
72	2	-1.114658E-004	-6.782415E-006	-3.933296E-002	-2.393401E-002
72	3	-1.114682E-004	-7.843155E-006	-3.933396E-002	-2.485360E-002
72	4	-1.126904E-004	-7.843788E-006	-3.976394E-002	-2.485394E-002
73	1	-1.086254E-001	-2.471235E-003	-3.833070E-001	-8.720179E-002
73	2	-1.068380E-001	-2.471236E-003	-3.770001E-001	-8.720181E-002
73	3	-1.068352E-001	-2.853767E-003	-3.769898E-001	-1.007004E-001
73	4	-1.086220E-001	-2.853767E-003	-3.832939E-001	-1.007004E-001

74	1	-1.044771E-001	-6.789945E-003	-3.686694E-001	-2.395971E-001
74	2	-9.990279E-002	-6.789945E-003	-3.525282E-001	-2.395971E-001
74	3	-9.989413E-002	-7.769858E-003	-3.524967E-001	-2.741740E-001
74	4	-1.044700E-001	-7.769858E-003	-3.686438E-001	-2.741740E-001
75	1	-9.602331E-002	-1.005612E-002	-3.388376E-001	-3.548513E-001
75	2	-9.808123E-002	-1.005612E-002	-3.178702E-001	-3.548514E-001
75	3	-9.807879E-002	-1.132731E-002	-3.178618E-001	-3.997080E-001
75	4	-9.601416E-002	-1.132731E-002	-3.388059E-001	-3.997080E-001
76	1	-8.566263E-002	-1.212382E-002	-3.022788E-001	-4.278132E-001
76	2	-7.953445E-002	-1.212382E-002	-2.806532E-001	-4.278132E-001
76	3	-7.952487E-002	-1.343644E-002	-2.806198E-001	-4.741310E-001
76	4	-8.566074E-002	-1.343638E-002	-3.022696E-001	-4.741310E-001
77	1	-7.520771E-002	-1.313927E-002	-2.653861E-001	-4.636476E-001
77	2	-6.954210E-002	-1.313928E-002	-2.453943E-001	-4.636476E-001
77	3	-6.953969E-002	-1.435136E-002	-2.453859E-001	-5.064171E-001
77	4	-7.519898E-002	-1.435136E-002	-2.653545E-001	-5.064171E-001
78	1	-6.575943E-002	-1.334404E-002	-2.320461E-001	-4.708701E-001
78	2	-6.189044E-002	-1.334404E-002	-2.155702E-001	-4.708701E-001
78	3	-6.188310E-002	-1.434399E-002	-2.155442E-001	-5.061573E-001
78	4	-6.575724E-002	-1.434399E-002	-2.320385E-001	-5.061573E-001
79	1	-5.791686E-002	-1.302728E-002	-2.043714E-001	-4.596938E-001
79	2	-5.390752E-002	-1.302726E-002	-1.982242E-001	-4.596938E-001
79	3	-5.390608E-002	-1.388493E-002	-1.982179E-001	-4.899598E-001
79	4	-5.791860E-002	-1.388493E-002	-2.043491E-001	-4.899598E-001
80	1	-5.182633E-002	-1.243663E-002	-1.828808E-001	-4.388520E-001
80	2	-5.014967E-002	-1.243663E-002	-1.769633E-001	-4.388520E-001
80	3	-5.014717E-002	-1.279577E-002	-1.769539E-001	-4.515249E-001
80	4	-5.182595E-002	-1.279577E-002	-1.828793E-001	-4.515249E-001
81	1	-4.710896E-002	-1.212578E-002	-1.662048E-001	-4.278845E-001
81	2	-4.044109E-002	-1.212581E-002	-1.427057E-001	-4.278845E-001
81	3	-4.043869E-002	-1.355047E-002	-1.426969E-001	-4.781549E-001
81	4	-4.709055E-002	-1.355047E-002	-1.661688E-001	-4.781549E-001
82	1	-2.107516E-002	-6.348583E-003	-9.486881E-002	-2.857788E-001
82	2	+3.492433E-005	-8.098664E-005	+1.232445E-002	-2.857787E-001
82	3	+3.492433E-005	-1.460744E-004	+1.232445E-002	-5.154530E-001
82	4	-2.108474E-004	-1.460744E-004	-9.486881E-002	-5.154538E-001
83	1	+4.130189E-005	-1.953509E-004	+1.457333E-002	-6.893358E-001
83	2	-2.450648E-004	-1.953509E-004	-8.647597E-002	-6.893362E-001
83	3	-2.450661E-004	-1.341156E-004	-8.647741E-002	-4.732540E-001
83	4	+4.129393E-005	-1.341156E-004	+1.457263E-002	-4.732540E-001
84	1	-3.251646E-004	-9.973454E-005	-1.147415E-001	-3.519351E-001
84	2	-2.576375E-004	-9.973475E-005	-9.091323E-002	-3.519350E-001
84	3	-2.576365E-004	-1.142033E-004	-9.091296E-002	-4.029909E-001
84	4	-3.251657E-004	-1.142033E-004	-1.147422E-001	-4.029909E-001
85	1	-2.261058E-004	-8.137181E-005	-7.978692E-002	-2.871370E-001
85	2	-2.074826E-004	-8.137191E-005	-7.321350E-002	-2.871369E-001
85	3	-2.074806E-004	-8.535444E-005	-7.321426E-002	-3.011989E-001
85	4	-2.261059E-004	-8.535444E-005	-7.978591E-002	-3.011989E-001
86	1	-1.966267E-004	-6.534003E-005	-6.938449E-002	-2.305658E-001
86	2	-1.856140E-004	-6.533999E-005	-6.549760E-002	-2.305657E-001
86	3	-1.856186E-004	-6.770045E-005	-6.549855E-002	-2.388947E-001
86	4	-1.966331E-004	-6.770045E-005	-6.938540E-002	-2.388947E-001
87	1	-1.776688E-004	-4.787948E-005	-6.269418E-002	-1.689535E-001
87	2	-1.669789E-004	-4.787958E-005	-5.891986E-002	-1.689534E-001
87	3	-1.669902E-004	-5.816696E-005	-5.892600E-002	-1.770251E-001
87	4	-1.776708E-004	-5.816696E-005	-6.269521E-002	-1.770251E-001
88	1	-1.602369E-004	-3.290275E-005	-5.654431E-002	-1.161051E-001
88	2	-1.529093E-004	-3.290273E-005	-5.395748E-002	-1.161050E-001
88	3	-1.529113E-004	-3.447241E-005	-5.395900E-002	-1.216422E-001
88	4	-1.602535E-004	-3.447241E-005	-5.654733E-002	-1.216422E-001

89	1	-1.485764E-004	-1.914909E-005	-5.242713E-002	-6.757076E-002
89	2	-1.440467E-004	-1.914907E-005	-5.083058E-002	-6.757115E-002
89	3	-1.440538E-004	-2.011693E-005	-5.083260E-002	-7.098799E-002
89	4	-1.485766E-004	-2.011693E-005	-5.242789E-002	-7.098799E-002
90	1	-1.417212E-004	-6.242376E-006	-5.000810E-002	-2.202691E-002
90	2	-1.401985E-004	-6.242216E-006	-4.947204E-002	-2.202682E-002
90	3	-1.401991E-004	-6.567210E-006	-4.947192E-002	-2.317470E-002
90	4	-1.417230E-004	-6.567210E-006	-5.000868E-002	-2.317470E-002
91	1	-9.877074E-002	-1.968231E-003	-3.485327E-001	-6.945201E-002
91	2	-9.752981E-002	-1.968216E-003	-3.441544E-001	-6.945200E-002
91	3	-9.752740E-002	-2.233945E-003	-3.441451E-001	-7.882851E-002
91	4	-9.876828E-002	-2.233945E-003	-3.485235E-001	-7.882851E-002
92	1	-9.584837E-002	-5.473994E-003	-3.382207E-001	-1.931605E-001
92	2	-9.257536E-002	-5.473994E-003	-3.266713E-001	-1.931605E-001
92	3	-9.256934E-002	-6.174867E-003	-3.266502E-001	-2.178924E-001
92	4	-9.584259E-002	-6.174867E-003	-3.382007E-001	-2.178924E-001
93	1	-8.971314E-002	-8.280008E-003	-3.165712E-001	-2.921753E-001
93	2	-8.523777E-002	-8.280007E-003	-3.007784E-001	-2.921753E-001
93	3	-8.522892E-002	-9.239960E-003	-3.007472E-001	-3.268192E-001
93	4	-8.970416E-002	-9.239960E-003	-3.165405E-001	-3.268192E-001
94	1	-8.179562E-002	-1.021886E-002	-2.886328E-001	-3.605928E-001
94	2	-7.691663E-002	-1.021886E-002	-2.714168E-001	-3.605928E-001
94	3	-7.690704E-002	-1.126218E-002	-2.713030E-001	-3.974106E-001
94	4	-8.178544E-002	-1.126218E-002	-2.885968E-001	-3.974106E-001
95	1	-7.341614E-002	-1.133150E-002	-2.590630E-001	-3.998570E-001
95	2	-6.875824E-002	-1.133151E-002	-2.426277E-001	-3.998570E-001
95	3	-6.874888E-002	-1.232959E-002	-2.425951E-001	-4.350754E-001
95	4	-7.340637E-002	-1.232959E-002	-2.590307E-001	-4.350754E-001
96	1	-6.553694E-002	-1.177158E-002	-2.312610E-001	-4.153834E-001
96	2	-6.148517E-002	-1.177159E-002	-2.166824E-001	-4.153834E-001
96	3	-6.140360E-002	-1.265552E-002	-2.166742E-001	-4.465772E-001
96	4	-6.553032E-002	-1.265552E-002	-2.312368E-001	-4.465772E-001
97	1	-5.866673E-002	-1.173232E-002	-2.070182E-001	-4.139992E-001
97	2	-5.531717E-002	-1.173232E-002	-1.951976E-001	-4.139992E-001
97	3	-5.531712E-002	-1.245011E-002	-1.951981E-001	-4.393289E-001
97	4	-5.866669E-002	-1.245011E-002	-2.070181E-001	-4.393289E-001
98	1	-5.303961E-002	-1.146577E-002	-1.871681E-001	-4.045933E-001
98	2	-5.016506E-002	-1.146577E-002	-1.770180E-001	-4.045934E-001
98	3	-5.016511E-002	-1.208044E-002	-1.770179E-001	-4.262828E-001
98	4	-5.303997E-002	-1.208044E-002	-1.871588E-001	-4.262828E-001
99	1	-4.798708E-002	-1.063911E-002	-1.690499E-001	-3.754234E-001
99	2	-4.461275E-002	-1.063911E-002	-1.574258E-001	-3.754235E-001
99	3	-4.461288E-002	-1.134509E-002	-1.574259E-001	-4.003353E-001
99	4	-4.798743E-002	-1.134509E-002	-1.690511E-001	-4.003353E-001
100	1	-5.029671E-002	-1.122572E-002	-1.774830E-001	-3.961248E-001
100	2	-1.128154E-002	-1.832269E-003	-2.438983E-001	-3.961248E-001
100	3	-6.914813E-004	-7.194246E-005	-2.440033E-001	-2.538632E-001
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101	1	-6.915063E-004	-1.634136E-004	-2.440126E-001	-5.766390E-001
101	2	-5.054583E-004	-1.634136E-004	-1.783614E-001	-5.766391E-001
101	3	-5.053781E-004	-2.032182E-004	-1.783329E-001	-7.170975E-001
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102	1	-3.931339E-004	-5.907087E-005	-1.387249E-001	-2.084436E-001
102	2	-2.723094E-004	-5.907102E-005	-9.608953E-002	-2.084437E-001
102	3	-2.723094E-004	-8.496215E-005	-9.608953E-002	-2.998055E-001
102	4	-3.931369E-004	-8.496215E-005	-1.387265E-001	-2.998055E-001
103	1	-2.330058E-004	-8.384065E-005	-8.222030E-002	-2.958488E-001
103	2	-2.464453E-004	-8.384043E-005	-8.696323E-002	-2.958489E-001
103	3	-2.464304E-004	-8.896509E-005	-8.695714E-002	-2.857011E-001
103	4	-2.329971E-004	-8.896509E-005	-8.221747E-002	-2.857011E-001

104	1	-2.435905E-004	-5.844597E-005	-8.595581E-002	-2.062388E-001
104	2	-2.229908E-004	-5.844599E-005	-7.868636E-002	-2.062388E-001
104	3	-2.230014E-004	-6.285855E-005	-7.868953E-002	-2.218898E-001
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105	1	-2.110703E-004	-4.353786E-005	-7.448087E-002	-1.536312E-001
105	2	-1.991037E-004	-4.353789E-005	-7.025807E-002	-1.536312E-001
105	3	-1.991013E-004	-4.610214E-005	-7.025792E-002	-1.626817E-001
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106	1	-1.913836E-004	-2.966310E-005	-6.753410E-002	-1.046743E-001
106	2	-1.822568E-004	-2.966313E-005	-6.431320E-002	-1.046739E-001
106	3	-1.822712E-004	-3.161587E-005	-6.431838E-002	-1.115636E-001
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107	1	-1.767991E-004	-1.718739E-005	-6.238678E-002	-6.064867E-002
107	2	-1.713072E-004	-1.718741E-005	-6.044901E-002	-6.064875E-002
107	3	-1.713076E-004	-1.836290E-005	-6.044930E-002	-6.479809E-002
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108	1	-1.685379E-004	-5.514446E-006	-5.947892E-002	-1.945910E-002
108	2	-1.664458E-004	-5.514468E-006	-5.873478E-002	-1.945919E-002
108	3	-1.664529E-004	-5.960379E-006	-5.873634E-002	-2.103354E-002
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109	1	-9.134980E-002	-1.634399E-003	-3.223453E-001	-5.767563E-002
109	2	-9.042627E-002	-1.634464E-003	-3.198882E-001	-5.767530E-002
109	3	-9.042529E-002	-1.807523E-003	-3.198843E-001	-6.378388E-002
109	4	-9.134828E-002	-1.807525E-003	-3.223404E-001	-6.378397E-002
110	1	-8.916946E-002	-4.585327E-003	-3.146544E-001	-1.618036E-001
110	2	-8.670162E-002	-4.585344E-003	-3.059451E-001	-1.618041E-001
110	3	-8.670085E-002	-5.048179E-003	-3.059423E-001	-1.781359E-001
110	4	-8.916760E-002	-5.048182E-003	-3.146449E-001	-1.781359E-001
111	1	-8.452129E-002	-7.034674E-003	-2.982521E-001	-2.482346E-001
111	2	-8.103339E-002	-7.034763E-003	-2.859435E-001	-2.482348E-001
111	3	-8.102811E-002	-7.689883E-003	-2.859248E-001	-2.713245E-001
111	4	-8.452020E-002	-7.689890E-003	-2.982471E-001	-2.713247E-001
112	1	-7.829899E-002	-8.831060E-003	-2.762939E-001	-3.116213E-001
112	2	-7.436750E-002	-8.831821E-003	-2.624204E-001	-3.116219E-001
112	3	-7.436586E-002	-9.567762E-003	-2.624149E-001	-3.376167E-001
112	4	-7.829384E-002	-9.567775E-003	-2.762724E-001	-3.376172E-001
113	1	-7.149866E-002	-9.964996E-003	-2.522977E-001	-3.516349E-001
113	2	-6.759354E-002	-9.964972E-003	-2.385170E-001	-3.516353E-001
113	3	-6.759304E-002	-1.069793E-002	-2.385171E-001	-3.774979E-001
113	4	-7.149841E-002	-1.069795E-002	-2.522967E-001	-3.774986E-001
114	1	-6.485792E-002	-1.053285E-002	-2.288648E-001	-3.716740E-001
114	2	-6.129854E-002	-1.053294E-002	-2.162763E-001	-3.716743E-001
114	3	-6.129854E-002	-1.120250E-002	-2.162763E-001	-3.953016E-001
114	4	-6.485788E-002	-1.120253E-002	-2.288637E-001	-3.953027E-001
115	1	-5.885779E-002	-1.868041E-002	-2.076923E-001	-3.768807E-001
115	2	-5.577956E-002	-1.868039E-002	-1.968297E-001	-3.768792E-001
115	3	-5.577945E-002	-1.125814E-002	-1.968291E-001	-3.972667E-001
115	4	-5.885796E-002	-1.125817E-002	-2.076929E-001	-3.972659E-001
116	1	-5.361748E-002	-1.051748E-002	-1.892019E-001	-3.711296E-001
116	2	-5.079088E-002	-1.051739E-002	-1.792255E-001	-3.711280E-001
116	3	-5.079047E-002	-1.104696E-002	-1.792259E-001	-3.898154E-001
116	4	-5.361811E-002	-1.104695E-002	-1.892016E-001	-3.898152E-001
117	1	-4.957172E-002	-1.025193E-002	-1.749251E-001	-3.617594E-001
117	2	-4.906947E-002	-1.025192E-002	-1.731516E-001	-3.617598E-001
117	3	-4.906961E-002	-1.034624E-002	-1.731520E-001	-3.650871E-001
117	4	-4.957188E-002	-1.034623E-002	-1.749248E-001	-3.650870E-001
118	1	-4.613622E-002	-1.077747E-002	-1.628023E-001	-3.803057E-001
118	2	-3.862686E-002	-1.077749E-002	-1.363015E-001	-3.803062E-001
118	3	-3.863826E-002	-1.218480E-002	-1.363430E-001	-4.299660E-001
118	4	-4.613967E-002	-1.218474E-002	-1.628126E-001	-4.299644E-001

119	1	-2.292948E-002	-5.595360E-003	-7.892427E-002	-1.925925E-001
119	2	+1.439190E-004	-5.457937E-005	+5.078557E-002	-1.925943E-001
119	3	+1.431899E-004	-1.235697E-004	+5.052716E-002	-4.360405E-001
119	4	-2.243910E-004	-1.235690E-004	-7.910257E-002	-4.360390E-001
120	1	+1.360485E-004	-1.486481E-004	+4.800877E-002	-5.245359E-001
120	2	-2.502950E-004	-1.486484E-004	-8.832129E-002	-5.245350E-001
120	3	-2.495250E-004	-7.613590E-005	-8.804891E-002	-2.686611E-001
120	4	+1.368197E-004	-7.613577E-005	+4.828005E-002	-2.686622E-001
121	1	-3.656236E-004	-6.723269E-005	-1.290170E-001	-2.372451E-001
121	2	-2.967344E-004	-6.723339E-005	-1.047080E-001	-2.372437E-001
121	3	-2.967608E-004	-8.015712E-005	-1.047187E-001	-2.828523E-001
121	4	-3.657358E-004	-8.015747E-005	-1.290572E-001	-2.828515E-001
122	1	-2.667247E-004	-5.348699E-005	-9.412896E-002	-1.887393E-001
122	2	-2.536554E-004	-5.348721E-005	-8.950599E-002	-1.887400E-001
122	3	-2.536730E-004	-5.593737E-005	-8.951411E-002	-1.973873E-001
122	4	-2.667390E-004	-5.593778E-005	-9.412187E-002	-1.973884E-001
123	1	-2.428892E-004	-3.852171E-005	-8.570548E-002	-1.359314E-001
123	2	-2.269821E-004	-3.852142E-005	-8.009420E-002	-1.359328E-001
123	3	-2.270135E-004	-4.150679E-005	-8.010613E-002	-1.464655E-001
123	4	-2.429174E-004	-4.150640E-005	-8.571747E-002	-1.464651E-001
124	1	-2.173371E-004	-2.636358E-005	-7.669201E-002	-9.302805E-002
124	2	-2.072616E-004	-2.636356E-005	-7.313562E-002	-9.302986E-002
124	3	-2.072808E-004	-2.825550E-005	-7.314323E-002	-9.970479E-002
124	4	-2.173586E-004	-2.825498E-005	-7.670064E-002	-9.970418E-002
125	1	-2.010571E-004	-1.508269E-005	-7.094677E-002	-5.322408E-002
125	2	-1.945865E-004	-1.508277E-005	-6.863670E-002	-5.322288E-002
125	3	-1.945369E-004	-1.630951E-005	-6.864607E-002	-5.755083E-002
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126	1	-1.910355E-004	-4.750264E-006	-6.740962E-002	-1.676283E-002
126	2	-1.886959E-004	-4.750136E-006	-6.658535E-002	-1.676233E-002
126	3	-1.886987E-004	-5.189408E-006	-6.658615E-002	-1.831240E-002
126	4	-1.910438E-004	-5.190009E-006	-6.741332E-002	-1.831190E-002
127	1	-8.557171E-002	-1.392589E-003	-3.019572E-001	-4.914148E-002
127	2	-8.487553E-002	-1.392623E-003	-2.994997E-001	-4.914171E-002
127	3	-8.487397E-002	-1.523277E-003	-2.994962E-001	-5.375146E-002
127	4	-8.557102E-002	-1.523304E-003	-3.019545E-001	-5.375259E-002
128	1	-8.398501E-002	-3.924802E-003	-2.960764E-001	-1.384675E-001
128	2	-8.198707E-002	-3.924000E-003	-2.893076E-001	-1.384671E-001
128	3	-8.198309E-002	-4.283903E-003	-2.892950E-001	-1.511650E-001
128	4	-8.398218E-002	-4.283893E-003	-2.960666E-001	-1.511651E-001
129	1	-8.024091E-002	-6.081895E-003	-2.831473E-001	-2.146125E-001
129	2	-7.745177E-002	-6.081910E-003	-2.733049E-001	-2.146121E-001
129	3	-7.745078E-002	-6.604494E-003	-2.733020E-001	-2.330539E-001
129	4	-8.023706E-002	-6.604546E-003	-2.831318E-001	-2.330540E-001
130	1	-7.524782E-002	-7.732191E-003	-2.655286E-001	-2.728464E-001
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130	3	-7.201556E-002	-8.338936E-003	-2.541216E-001	-2.942546E-001
130	4	-7.524758E-002	-8.338834E-003	-2.655267E-001	-2.942557E-001
131	1	-6.962349E-002	-8.850143E-003	-2.456812E-001	-3.122959E-001
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133	1	-5.868856E-002	-9.746298E-003	-2.870941E-001	-3.439194E-001
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134	1	-5.397920E-002	-9.723491E-003	-1.904777E-001	-3.431141E-001
134	2	-5.163512E-002	-9.723502E-003	-1.822048E-001	-3.431132E-001
134	3	-5.163886E-002	-1.016302E-002	-1.822179E-001	-3.586244E-001
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135	1	-4.999906E-002	-9.673193E-003	-1.764325E-001	-3.413397E-001
135	2	-4.787660E-002	-9.673235E-003	-1.689424E-001	-3.413396E-001
135	3	-4.788112E-002	-1.007160E-002	-1.689574E-001	-3.553980E-001
135	4	-5.000331E-002	-1.007162E-002	-1.764461E-001	-3.553975E-001
136	1	-4.535673E-002	-9.045329E-003	-1.600512E-001	-3.191816E-001
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136	4	-4.536621E-002	-9.935619E-003	-1.600835E-001	-3.506017E-001
137	1	-4.733580E-002	-8.859390E-003	-1.670334E-001	-3.126202E-001
137	2	-7.045125E-004	-8.859236E-005	-2.486012E-001	-3.126170E-001
137	3	-7.044115E-004	-4.522510E-005	-2.485666E-001	-1.595853E-001
137	4	-4.729937E-002	-4.522558E-003	-1.669861E-001	-1.595880E-001
138	1	-6.887158E-004	-1.048573E-004	-2.430271E-001	-3.700112E-001
138	2	-4.144092E-004	-1.048576E-004	-1.462332E-001	-3.700121E-001
138	3	-4.144119E-004	-1.563440E-004	-1.462332E-001	-5.516922E-001
138	4	-6.887149E-004	-1.563438E-004	-2.430278E-001	-5.516908E-001
139	1	-3.173298E-004	-6.483169E-005	-1.119768E-001	-2.287724E-001
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139	3	-3.263922E-004	-6.313046E-005	-1.151757E-001	-2.227700E-001
139	4	-3.173298E-004	-6.313060E-005	-1.119749E-001	-2.227715E-001
140	1	-3.162567E-004	-4.331046E-005	-1.115964E-001	-1.528291E-001
140	2	-2.880684E-004	-4.331008E-005	-9.882711E-002	-1.528301E-001
140	3	-2.881410E-004	-5.010242E-005	-9.885289E-002	-1.767978E-001
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141	1	-2.623017E-004	-3.433185E-005	-9.255942E-002	-1.211482E-001
141	2	-2.502241E-004	-3.433170E-005	-8.829628E-002	-1.211475E-001
141	3	-2.502524E-004	-3.659818E-005	-8.830637E-002	-1.291445E-001
141	4	-2.623275E-004	-3.659825E-005	-9.256811E-002	-1.291455E-001
142	1	-2.410133E-004	-2.240260E-005	-8.504587E-002	-7.985079E-002
142	2	-2.282620E-004	-2.240174E-005	-8.054738E-002	-7.985017E-002
142	3	-2.282916E-004	-2.479515E-005	-8.055773E-002	-8.749381E-002
142	4	-2.410391E-004	-2.479522E-005	-8.505598E-002	-8.749497E-002
143	1	-2.207973E-004	-1.273972E-005	-7.791281E-002	-4.495560E-002
143	2	-2.134115E-004	-1.274004E-005	-7.530555E-002	-4.495564E-002
143	3	-2.134239E-004	-1.412676E-005	-7.531179E-002	-4.984945E-002
143	4	-2.208087E-004	-1.412663E-005	-7.791687E-002	-4.984937E-002
144	1	-2.096347E-004	-3.984631E-006	-7.397266E-002	-1.377759E-002
144	2	-2.069592E-004	-3.985071E-006	-7.302937E-002	-1.377810E-002
144	3	-2.069689E-004	-4.406783E-006	-7.303380E-002	-1.554874E-002
144	4	-2.096429E-004	-4.406535E-006	-7.397705E-002	-1.555043E-002
145	1	-8.067596E-002	-1.204926E-003	-2.846827E-001	-4.251681E-002
145	2	-8.013064E-002	-1.204892E-003	-2.827581E-001	-4.251798E-002
145	3	-8.012972E-002	-1.307296E-003	-2.827555E-001	-4.613006E-002
145	4	-8.067569E-002	-1.307292E-003	-2.846808E-001	-4.613052E-002
146	1	-7.936069E-002	-3.401380E-003	-2.800409E-001	-1.280248E-001
146	2	-7.783457E-002	-3.401341E-003	-2.746544E-001	-1.280229E-001
146	3	-7.783388E-002	-3.687660E-003	-2.746544E-001	-1.301284E-001
146	4	-7.935975E-002	-3.687668E-003	-2.800359E-001	-1.301280E-001
147	1	-7.645202E-002	-5.313238E-003	-2.697761E-001	-1.874879E-001
147	2	-7.420091E-002	-5.313244E-003	-2.618341E-001	-1.874893E-001
147	3	-7.420091E-002	-5.735695E-003	-2.618334E-001	-2.023977E-001
147	4	-7.645184E-002	-5.735720E-003	-2.697763E-001	-2.023972E-001
148	1	-7.240220E-002	-6.827388E-003	-2.554864E-001	-2.409175E-001
148	2	-6.973992E-002	-6.827356E-003	-2.460912E-001	-2.409167E-001
148	3	-6.973924E-002	-7.327117E-003	-2.460897E-001	-2.585530E-001
148	4	-7.240271E-002	-7.327107E-003	-2.554884E-001	-2.585534E-001

149	1	-6.774323E-002	-7.907775E-003	-2.390471E-001	-2.790439E-001
149	2	-6.495235E-002	-7.907792E-003	-2.291996E-001	-2.790428E-001
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150	1	-6.239902E-002	-8.580502E-003	-2.220929E-001	-3.027809E-001
150	2	-6.022800E-002	-8.580544E-003	-2.125279E-001	-3.027814E-001
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151	3	-5.580785E-002	-9.388314E-003	-1.969300E-001	-3.310039E-001
151	4	-5.831736E-002	-9.388366E-003	-2.057849E-001	-3.310029E-001
152	1	-5.408057E-002	-8.995486E-003	-1.908340E-001	-3.174256E-001
152	2	-5.186928E-002	-8.995547E-003	-1.830313E-001	-3.174253E-001
152	3	-5.186930E-002	-9.418543E-003	-1.830312E-001	-3.320679E-001
152	4	-5.408010E-002	-9.418521E-003	-1.908320E-001	-3.320685E-001
153	1	-5.013232E-002	-8.877886E-003	-1.769033E-001	-3.132753E-001
153	2	-4.759955E-002	-8.877874E-003	-1.679643E-001	-3.132745E-001
153	3	-4.759946E-002	-9.353311E-003	-1.679639E-001	-3.300522E-001
153	4	-5.013243E-002	-9.353401E-003	-1.769027E-001	-3.300527E-001
154	1	-4.661373E-002	-8.678514E-003	-1.644870E-001	-3.062377E-001
154	2	-4.645407E-002	-8.678428E-003	-1.639232E-001	-3.062384E-001
154	3	-4.645399E-002	-8.708369E-003	-1.639234E-001	-3.072940E-001
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155	2	-3.368639E-002	-8.063711E-003	-1.188694E-001	-2.845426E-001
155	3	-3.370102E-002	-9.807213E-003	-1.189200E-001	-3.460680E-001
155	4	-4.299426E-002	-9.807275E-003	-1.517141E-001	-3.460677E-001
156	1	-3.670845E-004	-1.306619E-004	-1.295329E-001	-4.610683E-001
156	2	-5.412277E-004	-1.306597E-004	-1.909836E-001	-4.610686E-001
156	3	-5.408802E-004	-9.797518E-005	-1.908602E-001	-3.457265E-001
156	4	-3.667373E-004	-9.797673E-005	-1.294116E-001	-3.457300E-001
157	1	-5.351687E-004	-1.740494E-005	-1.888461E-001	-6.141752E-002
157	2	-3.477647E-004	-1.740475E-005	-1.227161E-001	-6.141679E-002
157	3	-3.481374E-004	-5.258045E-005	-1.228485E-001	-1.855400E-001
157	4	-5.355351E-004	-5.258010E-005	-1.889771E-001	-1.855390E-001
158	1	-2.849802E-004	-4.463862E-005	-1.005361E-001	-1.575164E-001
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158	3	-2.997524E-004	-4.184679E-005	-1.057752E-001	-1.476646E-001
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159	1	-2.963037E-004	-2.737379E-005	-1.045553E-001	-9.659174E-002
159	2	-2.724004E-004	-2.737361E-005	-9.612236E-002	-9.659251E-002
159	3	-2.724412E-004	-3.185982E-005	-9.613762E-002	-1.124253E-001
159	4	-2.963497E-004	-3.185999E-005	-1.045706E-001	-1.124242E-001
160	1	-2.589360E-004	-1.829239E-005	-9.137014E-002	-6.454878E-002
160	2	-2.463224E-004	-1.829285E-005	-8.691952E-002	-6.454930E-002
160	3	-2.463459E-004	-2.066806E-005	-8.692905E-002	-7.298375E-002
160	4	-2.589653E-004	-2.065991E-005	-9.138077E-002	-7.298319E-002
161	1	-2.383678E-004	-9.956240E-006	-8.411333E-002	-3.513162E-002
161	2	-2.294890E-004	-9.955947E-006	-8.097868E-002	-3.513205E-002
161	3	-2.295056E-004	-1.162263E-005	-8.098522E-002	-4.181307E-002
161	4	-2.383867E-004	-1.162259E-005	-8.411998E-002	-4.181286E-002
162	1	-2.250638E-004	-2.953434E-006	-7.941842E-002	-1.042163E-002
162	2	-2.220714E-004	-2.952639E-006	-7.836117E-002	-1.041921E-002
162	3	-2.220754E-004	-3.515353E-006	-7.836475E-002	-1.240351E-002
162	4	-2.250801E-004	-3.514925E-006	-7.942326E-002	-1.240228E-002
163	1	-7.645246E-002	-1.054980E-003	-2.697788E-001	-3.722749E-002
163	2	-7.601407E-002	-1.055037E-003	-2.682319E-001	-3.722739E-002
163	3	-7.601389E-002	-1.137287E-003	-2.682303E-001	-4.013288E-002
163	4	-7.645217E-002	-1.137287E-003	-2.697786E-001	-4.013288E-002

164	1	-7.539782E-002	-2.984136E-003	-2.660568E-001	-1.053809E-001
164	2	-7.417975E-002	-2.984123E-003	-2.617584E-001	-1.053030E-001
164	3	-7.417941E-002	-3.212924E-003	-2.617560E-001	-1.133732E-001
164	4	-7.539789E-002	-3.212894E-003	-2.660536E-001	-1.133726E-001
165	1	-7.306648E-002	-4.690922E-003	-2.578291E-001	-1.655273E-001
165	2	-7.124184E-002	-4.690924E-003	-2.513917E-001	-1.655273E-001
165	3	-7.124159E-002	-5.033287E-003	-2.513912E-001	-1.776108E-001
165	4	-7.306629E-002	-5.033287E-003	-2.578284E-001	-1.776108E-001
166	1	-6.976898E-002	-6.088625E-003	-2.461940E-001	-2.145679E-001
166	2	-6.757810E-002	-6.088626E-003	-2.384346E-001	-2.145684E-001
166	3	-6.757021E-002	-6.493373E-003	-2.384352E-001	-2.291317E-001
166	4	-6.976924E-002	-6.493373E-003	-2.461950E-001	-2.291317E-001
167	1	-6.590319E-002	-7.112302E-003	-2.325531E-001	-2.509716E-001
167	2	-6.354764E-002	-7.112304E-003	-2.242422E-001	-2.509722E-001
167	3	-6.354786E-002	-7.554273E-003	-2.242422E-001	-2.665689E-001
167	4	-6.590319E-002	-7.554273E-003	-2.325540E-001	-2.665689E-001
168	1	-6.182719E-002	-7.792915E-003	-2.181699E-001	-2.749869E-001
168	2	-5.948135E-002	-7.792875E-003	-2.098921E-001	-2.749880E-001
168	3	-5.948135E-002	-8.233178E-003	-2.098921E-001	-2.905245E-001
168	4	-6.182783E-002	-8.233186E-003	-2.181715E-001	-2.905240E-001
169	1	-5.780911E-002	-8.167253E-003	-2.039907E-001	-2.881978E-001
169	2	-5.558712E-002	-8.167210E-003	-1.961512E-001	-2.881984E-001
169	3	-5.558725E-002	-8.584262E-003	-1.961507E-001	-3.029131E-001
169	4	-5.780951E-002	-8.584254E-003	-2.039923E-001	-3.029129E-001
170	1	-5.399039E-002	-8.294836E-003	-1.905163E-001	-2.926991E-001
170	2	-5.184945E-002	-8.294838E-003	-1.829621E-001	-2.926997E-001
170	3	-5.185029E-002	-8.696522E-003	-1.829629E-001	-3.068747E-001
170	4	-5.399019E-002	-8.696513E-003	-1.905154E-001	-3.068744E-001
171	1	-5.840473E-002	-8.240071E-003	-1.778620E-001	-2.987684E-001
171	2	-4.859539E-002	-8.240071E-003	-1.714791E-001	-2.987666E-001
171	3	-4.859552E-002	-8.579559E-003	-1.714787E-001	-3.027476E-001
171	4	-5.840456E-002	-8.579550E-003	-1.778614E-001	-3.027474E-001
172	1	-4.702187E-002	-8.029059E-003	-1.659263E-001	-2.833191E-001
172	2	-4.453204E-002	-8.029027E-003	-1.571393E-001	-2.833211E-001
172	3	-4.453552E-002	-8.496650E-003	-1.571531E-001	-2.998204E-001
172	4	-4.702265E-002	-8.496640E-003	-1.659284E-001	-2.998191E-001
173	1	-4.415493E-002	-7.800888E-003	-1.558117E-001	-2.752689E-001
173	2	-4.562266E-002	-7.800888E-003	-1.609893E-001	-2.752689E-001
173	3	-4.562009E-002	-7.525366E-003	-1.609798E-001	-2.655475E-001
173	4	-4.415241E-002	-7.525426E-003	-1.558006E-001	-2.655471E-001
174	1	-3.484278E-002	-6.345174E-003	-1.229489E-001	-2.239024E-001
174	2	-3.962369E-005	-6.345317E-005	-1.398159E-002	-2.239085E-001
174	3	-4.024102E-005	-1.214165E-004	-1.420000E-002	-4.284430E-001
174	4	-8.615558E-003	-2.996894E-003	-1.231657E-001	-4.284261E-001
175	1	-3.002384E-005	-7.688647E-005	-1.059687E-002	-2.713104E-001
175	2	-3.122396E-004	-7.688647E-005	-1.101883E-001	-2.713104E-001
175	3	-3.116812E-004	-2.391788E-005	-1.099825E-001	-8.439937E-002
175	4	-2.946588E-005	-2.391788E-005	-1.039732E-002	-8.439937E-002
176	1	-3.926388E-004	-2.996875E-005	-1.385507E-001	-1.057517E-001
176	2	-3.314346E-004	-2.996875E-005	-1.169552E-001	-1.057517E-001
176	3	-3.315573E-004	-4.145613E-005	-1.169963E-001	-1.462855E-001
176	4	-3.927583E-004	-4.145613E-005	-1.385938E-001	-1.462855E-001
177	1	-3.838534E-004	-2.216096E-005	-1.072196E-001	-7.819884E-002
177	2	-2.899267E-004	-2.216093E-005	-1.023064E-001	-7.820063E-002
177	3	-2.899565E-004	-2.477458E-005	-1.023175E-001	-8.742339E-002
177	4	-3.838849E-004	-2.477437E-005	-1.072309E-001	-8.742322E-002
178	1	-2.785810E-004	-1.311935E-005	-9.838306E-002	-4.629399E-002
178	2	-2.617902E-004	-1.311968E-005	-9.237982E-002	-4.629342E-002
178	3	-2.618244E-004	-1.627224E-005	-9.239834E-002	-5.741977E-002
178	4	-2.786182E-004	-1.627224E-005	-9.831654E-002	-5.741977E-002

179	1	-2.519703E-004	-6.818036E-006	-8.891098E-002	-2.405900E-002
179	2	-2.421091E-004	-6.818220E-006	-8.543285E-002	-2.405898E-002
179	3	-2.421308E-004	-8.668579E-006	-8.544101E-002	-3.058889E-002
179	4	-2.519830E-004	-8.668579E-006	-8.891798E-002	-3.058889E-002
180	1	-2.371239E-004	-1.816588E-006	-8.367363E-002	-6.410646E-003
180	2	-2.334959E-004	-1.816156E-006	-8.239513E-002	-6.410981E-003
180	3	-2.335063E-004	-2.498229E-006	-8.239801E-002	-8.815262E-003
180	4	-2.371282E-004	-2.498599E-006	-8.367478E-002	-8.815363E-003
181	1	-7.274585E-002	-9.356755E-004	-2.566959E-001	-3.301701E-002
181	2	-7.239667E-002	-9.356578E-004	-2.554674E-001	-3.301692E-002
181	3	-7.239652E-002	-1.000945E-003	-2.554664E-001	-3.532045E-002
181	4	-7.274467E-002	-1.000891E-003	-2.566951E-001	-3.531871E-002
182	1	-7.190227E-002	-2.650572E-003	-2.537229E-001	-9.353085E-002
182	2	-7.092907E-002	-2.650595E-003	-2.502877E-001	-9.353203E-002
182	3	-7.092723E-002	-2.833523E-003	-2.502814E-001	-9.998752E-002
182	4	-7.190170E-002	-2.833498E-003	-2.537193E-001	-9.998591E-002
183	1	-7.001702E-002	-4.187922E-003	-2.470699E-001	-1.477803E-001
183	2	-6.854455E-002	-4.187963E-003	-2.418738E-001	-1.477820E-001
183	3	-6.854150E-002	-4.464451E-003	-2.418631E-001	-1.575366E-001
183	4	-7.001420E-002	-4.464410E-003	-2.470593E-001	-1.575364E-001
184	1	-6.732911E-002	-5.465345E-003	-2.375837E-001	-1.928537E-001
184	2	-6.551771E-002	-5.465281E-003	-2.311933E-001	-1.928535E-001
184	3	-6.551709E-002	-5.805322E-003	-2.311908E-001	-2.848514E-001
184	4	-6.732638E-002	-5.805328E-003	-2.375734E-001	-2.848516E-001
185	1	-6.412935E-002	-6.442274E-003	-2.262949E-001	-2.273289E-001
185	2	-6.214675E-002	-6.442286E-003	-2.192991E-001	-2.273282E-001
185	3	-6.214738E-002	-6.814353E-003	-2.192990E-001	-2.404577E-001
185	4	-6.412935E-002	-6.814301E-003	-2.262939E-001	-2.404579E-001
186	1	-6.868516E-002	-7.115841E-003	-2.141388E-001	-2.510977E-001
186	2	-5.867317E-002	-7.115823E-003	-2.070399E-001	-2.510980E-001
186	3	-5.867323E-002	-7.493494E-003	-2.070411E-001	-2.644228E-001
186	4	-6.868531E-002	-7.493448E-003	-2.141404E-001	-2.644199E-001
187	1	-5.721500E-002	-7.508906E-003	-2.018950E-001	-2.649671E-001
187	2	-5.524297E-002	-7.508906E-003	-1.949362E-001	-2.649671E-001
187	3	-5.524263E-002	-7.879035E-003	-1.949358E-001	-2.780269E-001
187	4	-5.721490E-002	-7.879035E-003	-2.018955E-001	-2.780269E-001
188	1	-5.383146E-002	-7.664838E-003	-1.899564E-001	-2.704709E-001
188	2	-5.194756E-002	-7.664895E-003	-1.833089E-001	-2.704704E-001
188	3	-5.195134E-002	-8.018460E-003	-1.833201E-001	-2.829487E-001
188	4	-5.383238E-002	-8.018460E-003	-1.899582E-001	-2.829487E-001
189	1	-5.056673E-002	-7.631546E-003	-1.784373E-001	-2.692952E-001
189	2	-4.867896E-002	-7.631574E-003	-1.717732E-001	-2.692965E-001
189	3	-4.868298E-002	-7.985991E-003	-1.717875E-001	-2.818019E-001
189	4	-5.057126E-002	-7.985991E-003	-1.784504E-001	-2.818019E-001
190	1	-4.745218E-002	-7.483186E-003	-1.674460E-001	-2.640576E-001
190	2	-4.599435E-002	-7.483163E-003	-1.623015E-001	-2.640576E-001
190	3	-4.599512E-002	-7.757192E-003	-1.623036E-001	-2.737288E-001
190	4	-4.745469E-002	-7.757200E-003	-1.674545E-001	-2.737267E-001
191	1	-4.457333E-002	-7.280070E-003	-1.572857E-001	-2.568954E-001
191	2	-4.214942E-002	-7.280138E-003	-1.487327E-001	-2.568957E-001
191	3	-4.214953E-002	-7.735171E-003	-1.487334E-001	-2.729521E-001
191	4	-4.457368E-002	-7.735171E-003	-1.572854E-001	-2.729521E-001
192	1	-4.606421E-002	-7.587421E-003	-1.625460E-001	-2.677372E-001
192	2	-1.270897E-002	-1.629291E-003	-2.088421E-001	-2.677375E-001
192	3	-5.916291E-004	-5.123940E-005	-2.087686E-001	-1.888093E-001
192	4	-4.605842E-002	-5.123947E-003	-1.625274E-001	-1.888093E-001
193	1	-5.778116E-004	-5.298403E-005	-2.038938E-001	-1.869640E-001
193	2	-4.089827E-004	-5.298640E-005	-1.443186E-001	-1.869751E-001
193	3	-4.093203E-004	-8.467586E-005	-1.444362E-001	-2.987934E-001
193	4	-5.781518E-004	-8.467492E-005	-2.040118E-001	-2.987926E-001

194	1	-3.472688E-004	-2.681718E-005	-1.225482E-001	-9.180660E-002
194	2	-3.482545E-004	-2.681711E-005	-1.228875E-001	-9.180640E-002
194	3	-3.482518E-004	-2.583210E-005	-1.228886E-001	-9.115361E-002
194	4	-3.472584E-004	-2.583210E-005	-1.225382E-001	-9.115361E-002
195	1	-3.371904E-004	-1.329352E-005	-1.189837E-001	-4.690970E-002
195	2	-3.063400E-004	-1.329361E-005	-1.080992E-001	-4.691019E-002
195	3	-3.063991E-004	-1.908404E-005	-1.081207E-001	-6.734275E-002
195	4	-3.372587E-004	-1.908411E-005	-1.190068E-001	-6.733956E-002
196	1	-2.893613E-004	-8.821455E-006	-1.021061E-001	-2.838569E-002
196	2	-2.739780E-004	-8.821308E-006	-9.667961E-002	-2.838590E-002
196	3	-2.740300E-004	-1.091002E-005	-9.669738E-002	-3.849823E-002
196	4	-2.893978E-004	-1.090992E-005	-1.021198E-001	-3.849782E-002
197	1	-2.635635E-004	-2.863220E-006	-9.300198E-002	-1.010412E-002
197	2	-2.507753E-004	-2.863295E-006	-8.849113E-002	-1.010442E-002
197	3	-2.508276E-004	-5.262290E-006	-8.850954E-002	-1.856978E-002
197	4	-2.636107E-004	-5.262234E-006	-9.301995E-002	-1.856996E-002
198	1	-2.446096E-004	-5.573735E-007	-8.631711E-002	-1.966276E-003
198	2	-2.406783E-004	-5.573485E-007	-8.492865E-002	-1.966173E-003
198	3	-2.406877E-004	-1.296525E-006	-8.493086E-002	-4.574875E-003
198	4	-2.446208E-004	-1.295859E-006	-8.631902E-002	-4.574464E-003
199	1	-6.946147E-002	-8.407535E-004	-2.451105E-001	-2.966743E-002
199	2	-6.910512E-002	-8.406972E-004	-2.441331E-001	-2.966001E-002
199	3	-6.910523E-002	-8.927475E-004	-2.441328E-001	-3.150234E-002
199	4	-6.946114E-002	-8.927475E-004	-2.451074E-001	-3.150234E-002
200	1	-6.878661E-002	-2.381178E-003	-2.427280E-001	-8.402480E-002
200	2	-6.799743E-002	-2.381196E-003	-2.399432E-001	-8.402491E-002
200	3	-6.799729E-002	-2.529463E-003	-2.399411E-001	-8.925699E-002
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201	1	-6.726623E-002	-3.777058E-003	-2.373612E-001	-1.332821E-001
201	2	-6.605785E-002	-3.777114E-003	-2.330994E-001	-1.332833E-001
201	3	-6.605827E-002	-4.003903E-003	-2.331007E-001	-1.412849E-001
201	4	-6.726664E-002	-4.003877E-003	-2.373637E-001	-1.412855E-001
202	1	-6.507187E-002	-4.958730E-003	-2.296195E-001	-1.749775E-001
202	2	-6.358556E-002	-4.958736E-003	-2.243738E-001	-1.749777E-001
202	3	-6.358361E-002	-5.238170E-003	-2.243665E-001	-1.848391E-001
202	4	-6.507087E-002	-5.238162E-003	-2.296174E-001	-1.848389E-001
203	1	-6.242798E-002	-5.883129E-003	-2.202888E-001	-2.075961E-001
203	2	-6.077772E-002	-5.883120E-003	-2.144677E-001	-2.075957E-001
203	3	-6.077725E-002	-6.192868E-003	-2.144658E-001	-2.185296E-001
203	4	-6.242582E-002	-6.192820E-003	-2.202796E-001	-2.185293E-001
204	1	-5.954744E-002	-6.538441E-003	-2.181268E-001	-2.307216E-001
204	2	-5.783438E-002	-6.538423E-003	-2.040817E-001	-2.307239E-001
204	3	-5.783438E-002	-6.860032E-003	-2.040808E-001	-2.420704E-001
204	4	-5.954684E-002	-6.859972E-003	-2.181236E-001	-2.420695E-001
205	1	-5.658219E-002	-6.935370E-003	-1.996622E-001	-2.447388E-001
205	2	-5.487391E-002	-6.935365E-003	-1.936334E-001	-2.447382E-001
205	3	-5.487659E-002	-7.256124E-003	-1.936428E-001	-2.560480E-001
205	4	-5.658324E-002	-7.256133E-003	-1.996657E-001	-2.560464E-001
206	1	-5.362944E-002	-7.099410E-003	-1.892415E-001	-2.505171E-001
206	2	-5.193301E-002	-7.099398E-003	-1.832550E-001	-2.505169E-001
206	3	-5.193387E-002	-7.418203E-003	-1.832598E-001	-2.617688E-001
206	4	-5.363217E-002	-7.418272E-003	-1.892520E-001	-2.617692E-001
207	1	-5.070225E-002	-7.074756E-003	-1.789123E-001	-2.496459E-001
207	2	-4.903592E-002	-7.074684E-003	-1.730358E-001	-2.496464E-001
207	3	-4.903597E-002	-7.387430E-003	-1.730335E-001	-2.606805E-001
207	4	-5.070221E-002	-7.387397E-003	-1.789131E-001	-2.606788E-001
208	1	-4.777477E-002	-6.926410E-003	-1.685829E-001	-2.444145E-001
208	2	-4.599454E-002	-6.926489E-003	-1.623015E-001	-2.444145E-001
208	3	-4.599742E-002	-7.260759E-003	-1.623112E-001	-2.562102E-001
208	4	-4.777548E-002	-7.260758E-003	-1.685864E-001	-2.562114E-001

209	1	-4.492354E-002	-6.820374E-003	-1.585207E-001	-2.406740E-001
209	2	-4.377979E-002	-6.820388E-003	-1.544861E-001	-2.406741E-001
209	3	-4.378195E-002	-7.035098E-003	-1.544932E-001	-2.482472E-001
209	4	-4.492570E-002	-7.035087E-003	-1.585274E-001	-2.482487E-001
210	1	-4.159172E-002	-7.245710E-003	-1.467658E-001	-2.556805E-001
210	2	-3.674661E-002	-7.245775E-003	-1.296694E-001	-2.556814E-001
210	3	-3.674902E-002	-8.156545E-003	-1.296757E-001	-2.878214E-001
210	4	-4.159947E-002	-8.156549E-003	-1.467919E-001	-2.878210E-001
211	1	-3.887480E-004	-6.871882E-005	-1.371777E-001	-2.424873E-001
211	2	-4.953439E-004	-6.871764E-005	-1.747925E-001	-2.424865E-001
211	3	-4.951733E-004	-4.870183E-005	-1.747334E-001	-1.718546E-001
211	4	-3.887028E-004	-4.870320E-005	-1.371619E-001	-1.718606E-001
212	1	-4.866343E-004	+6.783711E-006	-1.717191E-001	+2.393934E-002
212	2	-3.584364E-004	+6.783903E-006	-1.264812E-001	+2.393764E-002
212	3	-3.586929E-004	-1.727784E-005	-1.265716E-001	-6.096924E-002
212	4	-4.868932E-004	-1.727784E-005	-1.718104E-001	-6.096924E-002
213	1	-3.140985E-004	-1.283829E-005	-1.108347E-001	-4.530194E-002
213	2	-3.205871E-004	-1.283854E-005	-1.131263E-001	-4.530254E-002
213	3	-3.205766E-004	-1.161998E-005	-1.131220E-001	-4.100422E-002
213	4	-3.140868E-004	-1.162044E-005	-1.108316E-001	-4.100396E-002
214	1	-3.122336E-004	+4.693300E-007	-1.101787E-001	+1.656851E-003
214	2	-2.833108E-004	+4.696279E-007	-9.997163E-002	+1.656641E-003
214	3	-2.833675E-004	-4.970903E-006	-9.999237E-002	-1.754196E-002
214	4	-3.122957E-004	-4.971369E-006	-1.101999E-001	-1.754196E-002
215	1	-2.677739E-004	+1.473585E-006	-9.448834E-002	+5.199529E-003
215	2	-2.542871E-004	+1.473273E-006	-8.972892E-002	+5.199885E-003
215	3	-2.543072E-004	-1.058395E-006	-8.973946E-002	-3.736392E-003
215	4	-2.678015E-004	-1.057942E-006	-9.450007E-002	-3.734493E-003
216	1	-2.476136E-004	+9.259467E-007	-8.737824E-002	+3.267494E-003
216	2	-2.428906E-004	+9.251889E-007	-8.570800E-002	+3.264293E-003
216	3	-2.429043E-004	+3.814893E-008	-8.571372E-002	+1.335416E-004
216	4	-2.476274E-004	+3.778932E-008	-8.737986E-002	+1.343691E-004
217	1	-6.651393E-002	-7.651566E-004	-2.347101E-001	-2.780160E-002
217	2	-6.629387E-002	-7.651849E-004	-2.339326E-001	-2.780251E-002
217	3	-6.629418E-002	-8.065971E-004	-2.339322E-001	-2.846303E-002
217	4	-6.651379E-002	-8.066080E-004	-2.347085E-001	-2.846348E-002
218	1	-6.597595E-002	-2.165374E-003	-2.328090E-001	-7.641017E-002
218	2	-6.534648E-002	-2.165387E-003	-2.305889E-001	-7.641011E-002
218	3	-6.534588E-002	-2.283554E-003	-2.305864E-001	-8.857918E-002
218	4	-6.597546E-002	-2.283562E-003	-2.328080E-001	-8.857942E-002
219	1	-6.474807E-002	-3.445421E-003	-2.284765E-001	-1.215767E-001
219	2	-6.377743E-002	-3.445385E-003	-2.250521E-001	-1.215785E-001
219	3	-6.377672E-002	-3.627538E-003	-2.250496E-001	-1.280069E-001
219	4	-6.474661E-002	-3.627559E-003	-2.284714E-001	-1.280061E-001
220	1	-6.297571E-002	-4.543818E-003	-2.222234E-001	-1.603384E-001
220	2	-6.175582E-002	-4.543839E-003	-2.179184E-001	-1.603386E-001
220	3	-6.175559E-002	-4.772776E-003	-2.179171E-001	-1.684168E-001
220	4	-6.297578E-002	-4.772768E-003	-2.222226E-001	-1.684165E-001
221	1	-6.081110E-002	-5.419921E-003	-2.145837E-001	-1.912524E-001
221	2	-5.945063E-002	-5.419918E-003	-2.097822E-001	-1.912526E-001
221	3	-5.945017E-002	-5.675912E-003	-2.097823E-001	-2.002836E-001
221	4	-6.081127E-002	-5.675843E-003	-2.145843E-001	-2.002833E-001
222	1	-5.842823E-002	-6.053954E-003	-2.061775E-001	-2.136266E-001
222	2	-5.699731E-002	-6.054000E-003	-2.011263E-001	-2.136288E-001
222	3	-5.699738E-002	-6.322557E-003	-2.011266E-001	-2.231047E-001
222	4	-5.842808E-002	-6.322507E-003	-2.061761E-001	-2.231023E-001
223	1	-5.594876E-002	-6.444457E-003	-1.973988E-001	-2.274041E-001
223	2	-5.448759E-002	-6.444389E-003	-1.922712E-001	-2.274033E-001
223	3	-5.448760E-002	-6.717712E-003	-1.922711E-001	-2.370485E-001
223	4	-5.594112E-002	-6.717831E-003	-1.974012E-001	-2.370501E-001

224	1	-5.341432E-002	-6.604001E-003	-1.884854E-001	-2.330362E-001
224	2	-5.193724E-002	-6.603993E-003	-1.832716E-001	-2.330354E-001
224	3	-5.193721E-002	-6.881353E-003	-1.832698E-001	-2.428224E-001
224	4	-5.341504E-002	-6.881342E-003	-1.884853E-001	-2.428221E-001
225	1	-5.082817E-002	-6.562384E-003	-1.793570E-001	-2.315693E-001
225	2	-4.927673E-002	-6.562494E-003	-1.738834E-001	-2.315694E-001
225	3	-4.927914E-002	-6.853832E-003	-1.738915E-001	-2.418530E-001
225	4	-5.082895E-002	-6.853917E-003	-1.793601E-001	-2.418514E-001
226	1	-4.811898E-002	-6.385785E-003	-1.697704E-001	-2.253348E-001
226	2	-4.648383E-002	-6.385797E-003	-1.640276E-001	-2.253347E-001
226	3	-4.648406E-002	-6.691717E-003	-1.640281E-001	-2.361331E-001
226	4	-4.811396E-002	-6.691729E-003	-1.697789E-001	-2.361334E-001
227	1	-4.512623E-002	-6.208463E-003	-1.592367E-001	-2.190779E-001
227	2	-4.304632E-002	-6.208473E-003	-1.518983E-001	-2.190792E-001
227	3	-4.304941E-002	-6.599064E-003	-1.519090E-001	-2.328623E-001
227	4	-4.512754E-002	-6.599097E-003	-1.592408E-001	-2.328618E-001
228	1	-4.888504E-002	-5.934810E-003	-1.442702E-001	-2.093939E-001
228	2	-3.706777E-002	-5.934878E-003	-1.307997E-001	-2.093949E-001
228	3	-3.707496E-002	-6.650588E-003	-1.308267E-001	-2.346784E-001
228	4	-4.889233E-002	-6.650466E-003	-1.442963E-001	-2.346781E-001
229	1	-2.731255E-002	-1.771167E-003	-9.637833E-002	-6.249887E-002
229	2	-4.602128E-005	-1.771143E-005	-1.623862E-002	-6.249929E-002
229	3	-4.647071E-005	-6.842331E-005	-1.639833E-002	-2.132155E-001
229	4	-2.735826E-002	-6.842333E-003	-9.653985E-002	-2.132151E-001
230	1	-6.588794E-005	-5.627296E-005	-2.325193E-002	-1.985692E-001
230	2	-3.461599E-004	-5.626822E-005	-1.221506E-001	-1.985538E-001
230	3	-3.456832E-004	-3.663609E-006	-1.219534E-001	-1.292707E-002
230	4	-6.533435E-005	-3.664671E-006	-2.305498E-002	-1.293063E-002
231	1	-4.209762E-004	+5.704966E-006	-1.485492E-001	+2.013177E-002
231	2	-3.469134E-004	+5.705279E-006	-1.224163E-001	+2.013381E-002
231	3	-3.471741E-004	-8.202151E-006	-1.225083E-001	-2.894175E-002
231	4	-4.211529E-004	-8.201108E-006	-1.486126E-001	-2.893867E-002
232	1	-3.103921E-004	+9.016273E-006	-1.095279E-001	+3.181570E-002
232	2	-2.848807E-004	+9.015583E-006	-1.005267E-001	+3.181421E-002
232	3	-2.849432E-004	+4.219727E-006	-1.005493E-001	+1.488868E-002
232	4	-3.104841E-004	+4.219626E-006	-1.095617E-001	+1.488984E-002
233	1	-2.691936E-004	+6.866794E-006	-9.499006E-002	+2.423028E-002
233	2	-2.517762E-004	+6.866598E-006	-8.884406E-002	+2.422959E-002
233	3	-2.518357E-004	+3.596103E-006	-8.886501E-002	+1.268897E-002
233	4	-2.692325E-004	+3.595996E-006	-9.500422E-002	+1.268854E-002
234	1	-2.439983E-004	+2.300865E-006	-8.610073E-002	+8.118185E-003
234	2	-2.399086E-004	+2.300698E-006	-8.465776E-002	+8.118746E-003
234	3	-2.399204E-004	+1.533409E-006	-8.466261E-002	+5.410382E-003
234	4	-2.440171E-004	+1.533367E-006	-8.610598E-002	+5.409682E-003
235	1	-6.384696E-002	-7.045857E-004	-2.252978E-001	-2.486552E-002
235	2	-6.366941E-002	-7.046408E-004	-2.246722E-001	-2.486515E-002
235	3	-6.366965E-002	-7.378751E-004	-2.246722E-001	-2.603816E-002
235	4	-6.384699E-002	-7.378348E-004	-2.252972E-001	-2.603858E-002
236	1	-6.341293E-002	-1.992181E-003	-2.237657E-001	-7.829913E-002
236	2	-6.290626E-002	-1.992172E-003	-2.219774E-001	-7.829723E-002
236	3	-6.290609E-002	-2.087329E-003	-2.219768E-001	-7.365656E-002
236	4	-6.341224E-002	-2.087350E-003	-2.237650E-001	-7.365600E-002
237	1	-6.243571E-002	-3.178285E-003	-2.203174E-001	-1.121522E-001
237	2	-6.165561E-002	-3.178295E-003	-2.175649E-001	-1.121532E-001
237	3	-6.165607E-002	-3.324900E-003	-2.175660E-001	-1.173283E-001
237	4	-6.243554E-002	-3.324966E-003	-2.203167E-001	-1.173285E-001
238	1	-6.101181E-002	-4.200897E-003	-2.152931E-001	-1.485204E-001
238	2	-6.003254E-002	-4.209013E-003	-2.118370E-001	-1.485236E-001
238	3	-6.003260E-002	-4.392756E-003	-2.118368E-001	-1.550082E-001
238	4	-6.101184E-002	-4.392711E-003	-2.152923E-001	-1.550077E-001

239	1	-5.927130E-002	-5.043558E-003	-2.091516E-001	-1.779732E-001
239	2	-5.817877E-002	-5.043536E-003	-2.052663E-001	-1.779729E-001
239	3	-5.817873E-002	-5.250468E-003	-2.052664E-001	-1.852744E-001
239	4	-5.927118E-002	-5.250478E-003	-2.091582E-001	-1.852747E-001
240	1	-5.734076E-002	-5.656453E-003	-2.023387E-001	-1.995985E-001
240	2	-5.617380E-002	-5.656386E-003	-1.982206E-001	-1.995991E-001
240	3	-5.617386E-002	-5.875477E-003	-1.982209E-001	-2.073286E-001
240	4	-5.734088E-002	-5.875468E-003	-2.023391E-001	-2.073279E-001
241	1	-5.530840E-002	-6.036223E-003	-1.951665E-001	-2.130813E-001
241	2	-5.410888E-002	-6.036214E-003	-1.909349E-001	-2.130814E-001
241	3	-5.410857E-002	-6.261772E-003	-1.909350E-001	-2.209606E-001
241	4	-5.530771E-002	-6.261881E-003	-1.951639E-001	-2.209599E-001
242	1	-5.321169E-002	-6.181406E-003	-1.877679E-001	-2.181225E-001
242	2	-5.195910E-002	-6.181435E-003	-1.833489E-001	-2.181230E-001
242	3	-5.196154E-002	-6.416504E-003	-1.833564E-001	-2.264207E-001
242	4	-5.321204E-002	-6.416496E-003	-1.877704E-001	-2.264204E-001
243	1	-5.100103E-002	-6.104913E-003	-1.799684E-001	-2.154253E-001
243	2	-4.963538E-002	-6.104915E-003	-1.751477E-001	-2.154252E-001
243	3	-4.963610E-002	-6.361620E-003	-1.751504E-001	-2.244017E-001
243	4	-5.100292E-002	-6.361614E-003	-1.799731E-001	-2.244027E-001
244	1	-4.852918E-002	-5.849267E-003	-1.712458E-001	-2.064038E-001
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244	3	-4.687555E-002	-6.160311E-003	-1.654120E-001	-2.173779E-001
244	4	-4.853030E-002	-6.160311E-003	-1.712497E-001	-2.173779E-001
245	1	-4.550836E-002	-5.535141E-003	-1.605849E-001	-1.953193E-001
245	2	-4.344492E-002	-5.535180E-003	-1.533043E-001	-1.953212E-001
245	3	-4.344583E-002	-5.923172E-003	-1.533072E-001	-2.090093E-001
245	4	-4.551128E-002	-5.923032E-003	-1.605963E-001	-2.090092E-001
246	1	-4.161602E-002	-4.920644E-003	-1.468545E-001	-1.736340E-001
246	2	-3.868739E-002	-4.920627E-003	-1.365186E-001	-1.736349E-001
246	3	-3.869235E-002	-5.470706E-003	-1.365349E-001	-1.930441E-001
246	4	-4.161843E-002	-5.470659E-003	-1.468581E-001	-1.930445E-001
247	1	-4.618461E-002	-6.212512E-003	-1.629716E-001	-2.192214E-001
247	2	-6.955597E-004	-6.212204E-005	-2.454431E-001	-2.192079E-001
247	3	-6.954605E-004	-1.818502E-005	-2.454883E-001	-6.417041E-002
247	4	-4.614797E-002	-1.818626E-003	-1.628417E-001	-6.417399E-002
248	1	-6.996101E-004	-1.843220E-005	-2.468719E-001	-6.504152E-002
248	2	-4.769733E-004	-1.843284E-005	-1.683098E-001	-6.504595E-002
248	3	-4.773288E-004	-6.824055E-005	-1.684340E-001	-2.125722E-001
248	4	-6.997064E-004	-6.823688E-005	-2.469054E-001	-2.125596E-001
249	1	-3.854565E-004	+1.756855E-005	-1.360155E-001	+6.199424E-002
249	2	-3.591268E-004	+1.756790E-005	-1.267250E-001	+6.199229E-002
249	3	-3.591789E-004	+1.261589E-005	-1.267431E-001	+4.451771E-002
249	4	-3.855093E-004	+1.261602E-005	-1.360356E-001	+4.451955E-002
250	1	-3.298980E-004	+2.444144E-005	-1.164124E-001	+8.624182E-002
250	2	-2.765725E-004	+2.444140E-005	-9.759489E-002	+8.624625E-002
250	3	-2.766794E-004	+1.443213E-005	-9.763194E-002	+5.092779E-002
250	4	-3.300067E-004	+1.443314E-005	-1.164490E-001	+5.092938E-002
251	1	-2.532498E-004	+1.884074E-005	-8.936261E-002	+3.825339E-002
251	2	-2.424437E-004	+1.884057E-005	-8.555143E-002	+3.825328E-002
251	3	-2.424663E-004	+8.809320E-006	-8.555908E-002	+3.100714E-002
251	4	-2.532660E-004	+8.809676E-006	-8.936971E-002	+3.100669E-002
252	1	-2.363658E-004	+4.119585E-006	-8.340740E-002	+1.453602E-002
252	2	-2.303673E-004	+4.119527E-006	-8.129801E-002	+1.453695E-002
252	3	-2.303797E-004	+2.994055E-006	-8.129290E-002	+1.056509E-002
252	4	-2.363775E-004	+2.993992E-006	-8.341067E-002	+1.056401E-002
253	1	-6.139441E-002	-6.551212E-004	-2.166417E-001	-2.311773E-002
253	2	-6.124924E-002	-6.551212E-004	-2.161311E-001	-2.311773E-002
253	3	-6.124885E-002	-6.824711E-004	-2.161308E-001	-2.408218E-002
253	4	-6.139428E-002	-6.824711E-004	-2.166410E-001	-2.408218E-002

254	1	-6.104589E-002	-1.856183E-003	-2.154097E-001	-6.558001E-002
254	2	-6.065071E-002	-1.856185E-003	-2.140208E-001	-6.549922E-002
254	3	-6.065050E-002	-1.930229E-003	-2.140171E-001	-6.811482E-002
254	4	-6.104473E-002	-1.930273E-003	-2.154092E-001	-6.811322E-002
255	1	-6.027421E-002	-2.969354E-003	-2.126891E-001	-1.047828E-001
255	2	-5.966978E-002	-2.969438E-003	-2.105503E-001	-1.047818E-001
255	3	-5.966841E-002	-3.083026E-003	-2.105523E-001	-1.087920E-001
255	4	-6.027289E-002	-3.083046E-003	-2.126853E-001	-1.087907E-001
256	1	-5.915837E-002	-3.945469E-003	-2.087514E-001	-1.392228E-001
256	2	-5.839295E-002	-3.945457E-003	-2.060514E-001	-1.392248E-001
256	3	-5.839273E-002	-4.089217E-003	-2.060499E-001	-1.442959E-001
256	4	-5.915699E-002	-4.089125E-003	-2.087475E-001	-1.442951E-001
257	1	-5.779658E-002	-4.746131E-003	-2.039495E-001	-1.674763E-001
257	2	-5.693355E-002	-4.746108E-003	-2.009017E-001	-1.674760E-001
257	3	-5.693363E-002	-4.908489E-003	-2.009017E-001	-1.732043E-001
257	4	-5.779713E-002	-4.908399E-003	-2.039491E-001	-1.732040E-001
258	1	-5.628365E-002	-5.342178E-003	-1.986070E-001	-1.885067E-001
258	2	-5.536974E-002	-5.342071E-003	-1.953840E-001	-1.885072E-001
258	3	-5.536974E-002	-5.513525E-003	-1.953840E-001	-1.945553E-001
258	4	-5.628300E-002	-5.513513E-003	-1.986064E-001	-1.945548E-001
259	1	-5.469875E-002	-5.711882E-003	-1.929880E-001	-2.015558E-001
259	2	-5.374940E-002	-5.711826E-003	-1.896654E-001	-2.015564E-001
259	3	-5.374907E-002	-5.888913E-003	-1.896651E-001	-2.078035E-001
259	4	-5.469801E-002	-5.888984E-003	-1.929882E-001	-2.078039E-001
260	1	-5.304011E-002	-5.839387E-003	-1.871633E-001	-2.060530E-001
260	2	-5.204428E-002	-5.839391E-003	-1.836491E-001	-2.060545E-001
260	3	-5.204457E-002	-6.026658E-003	-1.836501E-001	-2.126637E-001
260	4	-5.304059E-002	-6.026612E-003	-1.871633E-001	-2.126629E-001
261	1	-5.125554E-002	-5.713879E-003	-1.808657E-001	-2.016252E-001
261	2	-5.009573E-002	-5.713850E-003	-1.767737E-001	-2.016243E-001
261	3	-5.009636E-002	-5.931496E-003	-1.767759E-001	-2.093058E-001
261	4	-5.125546E-002	-5.931496E-003	-1.808671E-001	-2.093058E-001
262	1	-4.912580E-002	-5.352088E-003	-1.733501E-001	-1.888594E-001
262	2	-4.763381E-002	-5.352044E-003	-1.680858E-001	-1.888586E-001
262	3	-4.763386E-002	-5.632568E-003	-1.680867E-001	-1.987581E-001
262	4	-4.912591E-002	-5.632547E-003	-1.733502E-001	-1.987583E-001
263	1	-4.622682E-002	-4.790020E-003	-1.631204E-001	-1.690269E-001
263	2	-4.387375E-002	-4.790007E-003	-1.548173E-001	-1.690271E-001
263	3	-4.387686E-002	-5.232015E-003	-1.548292E-001	-1.846213E-001
263	4	-4.622725E-002	-5.232017E-003	-1.631247E-001	-1.846203E-001
264	1	-4.272152E-002	-4.516695E-003	-1.507513E-001	-1.593823E-001
264	2	-4.193310E-002	-4.516764E-003	-1.479695E-001	-1.593807E-001
264	3	-4.193463E-002	-4.664793E-003	-1.479748E-001	-1.646067E-001
264	4	-4.272235E-002	-4.664750E-003	-1.507565E-001	-1.646066E-001
265	1	-3.724444E-002	-4.733923E-003	-1.314247E-001	-1.670482E-001
265	2	-2.521445E-002	-4.734031E-003	-8.897568E-002	-1.670496E-001
265	3	-2.523867E-002	-6.992153E-003	-8.905947E-002	-2.467327E-001
265	4	-3.726866E-002	-6.991901E-003	-1.315100E-001	-2.467232E-001
266	1	-3.245477E-004	-8.455186E-005	-1.145240E-001	-2.983597E-001
266	2	-6.415558E-004	-8.454720E-005	-2.263864E-001	-2.983416E-001
266	3	-6.409237E-004	-2.492089E-005	-2.261629E-001	-8.796515E-002
266	4	-3.239187E-004	-2.492990E-005	-1.143006E-001	-8.796939E-002
267	1	-6.449250E-004	+9.711186E-005	-2.275720E-001	+3.426806E-001
267	2	-3.423728E-004	+9.711090E-005	-1.208117E-001	+3.426763E-001
267	3	-3.429771E-004	+4.020838E-005	-1.210266E-001	+1.418829E-001
267	4	-6.455235E-004	+4.021262E-005	-2.277886E-001	+1.418901E-001
268	1	-2.374286E-004	+2.457897E-005	-8.378164E-002	+8.673181E-002
268	2	-2.511817E-004	+2.457877E-005	-8.863448E-002	+8.673032E-002
268	3	-2.511544E-004	+2.716048E-005	-8.862420E-002	+9.584022E-002
268	4	-2.374024E-004	+2.715991E-005	-8.377845E-002	+9.584147E-002

269	1	-2.487184E-004	+1.690648E-005	-8.776612E-002	+5.965686E-002
269	2	-2.280010E-004	+1.690648E-005	-8.045433E-002	+5.965686E-002
269	3	-2.280415E-004	+1.300989E-005	-8.046902E-002	+4.590861E-002
269	4	-2.487581E-004	+1.300989E-005	-8.777908E-002	+4.590861E-002
270	1	-2.192431E-004	+5.438882E-006	-7.736635E-002	+1.919310E-002
270	2	-2.157038E-004	+5.438865E-006	-7.611535E-002	+1.919358E-002
270	3	-2.157173E-004	+4.774363E-006	-7.612173E-002	+1.684734E-002
270	4	-2.192533E-004	+4.773701E-006	-7.736970E-002	+1.684618E-002
271	1	-5.989789E-002	-6.173779E-004	-2.085402E-001	-2.178654E-002
271	2	-5.899809E-002	-6.174765E-004	-2.081578E-001	-2.178636E-002
271	3	-5.898962E-002	-6.377355E-004	-2.081593E-001	-2.259174E-002
271	4	-5.989834E-002	-6.376979E-004	-2.085391E-001	-2.259216E-002
272	1	-5.883284E-002	-1.750927E-003	-2.076047E-001	-6.178511E-002
272	2	-5.852768E-002	-1.750923E-003	-2.065282E-001	-6.178655E-002
272	3	-5.852806E-002	-1.808214E-003	-2.065279E-001	-6.380630E-002
272	4	-5.883247E-002	-1.808229E-003	-2.076035E-001	-6.380633E-002
273	1	-5.824543E-002	-2.808078E-003	-2.055335E-001	-9.989832E-002
273	2	-5.777979E-002	-2.808125E-003	-2.038881E-001	-9.989894E-002
273	3	-5.777957E-002	-2.895732E-003	-2.038856E-001	-1.021820E-001
273	4	-5.824584E-002	-2.895716E-003	-2.055312E-001	-1.021813E-001
274	1	-5.739683E-002	-3.744228E-003	-2.025383E-001	-1.321227E-001
274	2	-5.681828E-002	-3.744238E-003	-2.004959E-001	-1.321222E-001
274	3	-5.681870E-002	-3.853043E-003	-2.004965E-001	-1.359598E-001
274	4	-5.739663E-002	-3.852942E-003	-2.025375E-001	-1.359610E-001
275	1	-5.637138E-002	-4.521642E-003	-1.989192E-001	-1.595545E-001
275	2	-5.572981E-002	-4.521573E-003	-1.966505E-001	-1.595534E-001
275	3	-5.572896E-002	-4.642493E-003	-1.966505E-001	-1.638189E-001
275	4	-5.637152E-002	-4.642444E-003	-1.989179E-001	-1.638197E-001
276	1	-5.524975E-002	-5.108153E-003	-1.949600E-001	-1.802506E-001
276	2	-5.458160E-002	-5.108142E-003	-1.926024E-001	-1.802501E-001
276	3	-5.458167E-002	-5.233382E-003	-1.926027E-001	-1.846696E-001
276	4	-5.524908E-002	-5.233401E-003	-1.949592E-001	-1.846702E-001
277	1	-5.408913E-002	-5.473430E-003	-1.908642E-001	-1.931388E-001
277	2	-5.341344E-002	-5.473359E-003	-1.884797E-001	-1.931397E-001
277	3	-5.341321E-002	-5.600524E-003	-1.884798E-001	-1.976257E-001
277	4	-5.408954E-002	-5.600524E-003	-1.908655E-001	-1.976257E-001
278	1	-5.290380E-002	-5.587157E-003	-1.866832E-001	-1.971528E-001
278	2	-5.218821E-002	-5.587198E-003	-1.841579E-001	-1.971538E-001
278	3	-5.218906E-002	-5.721547E-003	-1.841589E-001	-2.018979E-001
278	4	-5.290387E-002	-5.721588E-003	-1.866833E-001	-2.018974E-001
279	1	-5.161460E-002	-5.415227E-003	-1.821322E-001	-1.910856E-001
279	2	-5.075991E-002	-5.415143E-003	-1.791173E-001	-1.910869E-001
279	3	-5.076134E-002	-5.575554E-003	-1.791215E-001	-1.967469E-001
279	4	-5.161531E-002	-5.575567E-003	-1.821334E-001	-1.967473E-001
280	1	-4.996201E-002	-4.912234E-003	-1.763085E-001	-1.733367E-001
280	2	-4.865005E-002	-4.912254E-003	-1.716784E-001	-1.733380E-001
280	3	-4.865240E-002	-5.159033E-003	-1.716807E-001	-1.820470E-001
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281	1	-4.745270E-002	-4.130906E-003	-1.674468E-001	-1.457687E-001
281	2	-4.551774E-002	-4.130917E-003	-1.606170E-001	-1.457673E-001
281	3	-4.552162E-002	-4.494873E-003	-1.606315E-001	-1.586120E-001
281	4	-4.745665E-002	-4.494919E-003	-1.674619E-001	-1.586115E-001
282	1	-4.328153E-002	-3.395682E-003	-1.527278E-001	-1.198238E-001
282	2	-3.912895E-002	-3.395737E-003	-1.380753E-001	-1.198271E-001
282	3	-3.913091E-002	-4.176376E-003	-1.380821E-001	-1.473709E-001
282	4	-4.328816E-002	-4.176286E-003	-1.527521E-001	-1.473608E-001
283	1	-3.675014E-002	-3.305989E-003	-1.296807E-001	-1.166544E-001
283	2	-3.440381E-002	-3.305924E-003	-1.214016E-001	-1.166552E-001
283	3	-3.440729E-002	-3.746461E-003	-1.214141E-001	-1.322017E-001
283	4	-3.675163E-002	-3.746491E-003	-1.296843E-001	-1.322026E-001

284	1	-2.296641E-002	-3.212821E-003	-8.104137E-002	-1.133729E-001
284	2	+5.934520E-005	-3.212946E-005	+2.894075E-002	-1.133769E-001
284	3	+5.877520E-005	-8.648738E-005	+2.873963E-002	-3.051879E-001
284	4	-2.302428E-004	-8.648290E-005	-8.124613E-002	-3.051725E-001
285	1	+6.645963E-005	+4.807679E-005	+2.345115E-002	+1.696469E-001
285	2	-2.054666E-004	+4.808107E-005	-7.258293E-002	+1.696629E-001
285	3	-2.049197E-004	+9.921991E-005	-7.231262E-002	+3.501181E-001
285	4	+6.699653E-005	+9.921932E-005	+2.364168E-002	+3.501148E-001
286	1	-2.861285E-004	+3.692978E-005	-1.809676E-001	+1.303142E-001
286	2	-2.342712E-004	+3.692984E-005	-8.266761E-002	+1.303141E-001
286	3	-2.344519E-004	+2.719222E-005	-8.273176E-002	+9.595323E-002
286	4	-2.862539E-004	+2.719331E-005	-1.810103E-001	+9.595622E-002
287	1	-2.129790E-004	+2.020195E-005	-7.515526E-002	+7.128791E-002
287	2	-2.057024E-004	+2.020211E-005	-7.258666E-002	+7.128759E-002
287	3	-2.057209E-004	+1.883361E-005	-7.259352E-002	+6.645791E-002
287	4	-2.130061E-004	+1.883371E-005	-7.516220E-002	+6.645826E-002
288	1	-2.008185E-004	+7.335681E-006	-7.086322E-002	+2.588486E-002
288	2	-1.943851E-004	+7.335203E-006	-6.859356E-002	+2.588619E-002
288	3	-1.944032E-004	+6.125181E-006	-6.859808E-002	+2.161378E-002
288	4	-2.008389E-004	+6.125035E-006	-7.086879E-002	+2.161438E-002
289	1	-5.693077E-002	-5.983246E-004	-2.008917E-001	-2.083044E-002
289	2	-5.605397E-002	-5.982989E-004	-2.006218E-001	-2.082978E-002
289	3	-5.605415E-002	-6.047839E-004	-2.006209E-001	-2.134066E-002
289	4	-5.693050E-002	-6.047940E-004	-2.008913E-001	-2.134047E-002
290	1	-5.673798E-002	-1.672328E-003	-2.002106E-001	-5.980886E-002
290	2	-5.651322E-002	-1.672281E-003	-1.994187E-001	-5.980974E-002
290	3	-5.651312E-002	-1.714533E-003	-1.994183E-001	-6.049807E-002
290	4	-5.673756E-002	-1.714522E-003	-2.002093E-001	-6.049858E-002
291	1	-5.630736E-002	-2.689188E-003	-1.986924E-001	-9.489685E-002
291	2	-5.596960E-002	-2.689315E-003	-1.975001E-001	-9.489640E-002
291	3	-5.597022E-002	-2.752723E-003	-1.975006E-001	-9.713674E-002
291	4	-5.630726E-002	-2.752734E-003	-1.986929E-001	-9.713704E-002
292	1	-5.569648E-002	-3.599396E-003	-1.965360E-001	-1.270105E-001
292	2	-5.528697E-002	-3.599400E-003	-1.950933E-001	-1.270102E-001
292	3	-5.528737E-002	-3.676299E-003	-1.950917E-001	-1.297236E-001
292	4	-5.569677E-002	-3.676233E-003	-1.965353E-001	-1.297239E-001
293	1	-5.497863E-002	-4.365845E-003	-1.940040E-001	-1.540566E-001
293	2	-5.454449E-002	-4.365809E-003	-1.924720E-001	-1.540574E-001
293	3	-5.454333E-002	-4.447417E-003	-1.924688E-001	-1.569362E-001
293	4	-5.497831E-002	-4.447342E-003	-1.940033E-001	-1.569348E-001
294	1	-5.422217E-002	-4.952317E-003	-1.913344E-001	-1.747546E-001
294	2	-5.379407E-002	-4.952389E-003	-1.898228E-001	-1.747546E-001
294	3	-5.379485E-002	-5.032811E-003	-1.898251E-001	-1.775934E-001
294	4	-5.422185E-002	-5.032704E-003	-1.913341E-001	-1.775925E-001
295	1	-5.349251E-002	-5.322721E-003	-1.887593E-001	-1.878211E-001
295	2	-5.308744E-002	-5.322638E-003	-1.873296E-001	-1.878220E-001
295	3	-5.308713E-002	-5.398896E-003	-1.873297E-001	-1.905113E-001
295	4	-5.349367E-002	-5.398942E-003	-1.887641E-001	-1.905124E-001
296	1	-5.279292E-002	-5.435332E-003	-1.862982E-001	-1.917958E-001
296	2	-5.239365E-002	-5.435344E-003	-1.848823E-001	-1.917954E-001
296	3	-5.239335E-002	-5.510348E-003	-1.848800E-001	-1.944464E-001
296	4	-5.279253E-002	-5.510372E-003	-1.862904E-001	-1.944457E-001
297	1	-5.206983E-002	-5.231809E-003	-1.837352E-001	-1.846157E-001
297	2	-5.158449E-002	-5.231777E-003	-1.820279E-001	-1.846153E-001
297	3	-5.158464E-002	-5.323017E-003	-1.820280E-001	-1.878350E-001
297	4	-5.206968E-002	-5.323100E-003	-1.837308E-001	-1.878355E-001
298	1	-5.110469E-002	-4.609384E-003	-1.803334E-001	-1.626513E-001
298	2	-5.027637E-002	-4.609389E-003	-1.774124E-001	-1.626512E-001
298	3	-5.027712E-002	-4.764971E-003	-1.774132E-001	-1.681393E-001
298	4	-5.110448E-002	-4.764977E-003	-1.803330E-001	-1.681402E-001

299	1	-4.920467E-002	-3.457897E-003	-1.736286E-001	-1.220202E-001
299	2	-4.710345E-002	-3.457950E-003	-1.662153E-001	-1.220215E-001
299	3	-4.710375E-002	-3.853014E-003	-1.662159E-001	-1.359627E-001
299	4	-4.920526E-002	-3.853028E-003	-1.736305E-001	-1.359631E-001
300	1	-4.488991E-002	-2.098368E-003	-1.584030E-001	-7.404494E-002
300	2	-4.894317E-002	-2.098377E-003	-1.444763E-001	-7.404640E-002
300	3	-4.894973E-002	-2.839594E-003	-1.444993E-001	-1.001996E-001
300	4	-4.489199E-002	-2.839551E-003	-1.584109E-001	-1.001986E-001
301	1	-3.688550E-002	-1.316226E-003	-1.301576E-001	-4.644417E-002
301	2	-2.976913E-002	-1.316275E-003	-1.050464E-001	-4.644956E-002
301	3	-2.978358E-002	-2.654610E-003	-1.050972E-001	-9.367298E-002
301	4	-3.689982E-002	-2.654454E-003	-1.302086E-001	-9.366775E-002
302	1	-2.587696E-002	-3.271522E-004	-9.131313E-002	-1.154451E-002
302	2	-2.238829E-004	-3.271772E-006	-7.900258E-002	-1.154492E-002
302	3	-2.239507E-004	-9.832465E-006	-7.902489E-002	-3.469540E-002
302	4	-2.588391E-002	-9.831754E-004	-9.133563E-002	-3.469490E-002
303	1	-2.066519E-004	+3.223027E-005	-7.292188E-002	+1.137289E-001
303	2	-1.954862E-004	+3.222961E-005	-6.898329E-002	+1.137281E-001
303	3	-1.955129E-004	+3.013128E-005	-6.899076E-002	+1.063238E-001
303	4	-2.066809E-004	+3.013127E-005	-7.293110E-002	+1.063255E-001
304	1	-1.945758E-004	+3.822645E-005	-6.866163E-002	+1.348897E-001
304	2	-2.034291E-004	+3.822700E-005	-7.178469E-002	+1.348906E-001
304	3	-2.034096E-004	+3.988989E-005	-7.177701E-002	+1.407609E-001
304	4	-1.945639E-004	+3.989000E-005	-6.865610E-002	+1.407614E-001
305	1	-1.997944E-004	+2.560952E-005	-7.850355E-002	+9.836663E-002
305	2	-1.886535E-004	+2.560949E-005	-6.374662E-002	+9.836624E-002
305	3	-1.887245E-004	+2.201459E-005	-6.377149E-002	+7.768329E-002
305	4	-1.998492E-004	+2.201533E-005	-7.851864E-002	+7.768482E-002
306	1	-1.720314E-004	+9.162353E-006	-6.870417E-002	+3.233122E-002
306	2	-1.666374E-004	+9.162660E-006	-5.888154E-002	+3.233309E-002
306	3	-1.666602E-004	+8.149758E-006	-5.888856E-002	+2.875626E-002
306	4	-1.720469E-004	+8.149951E-006	-6.871195E-002	+2.875666E-002
307	1	-5.486826E-002	-5.698539E-004	-1.936132E-001	-2.010843E-002
307	2	-5.488846E-002	-5.698206E-004	-1.934051E-001	-2.010853E-002
307	3	-5.480982E-002	-5.810997E-004	-1.934055E-001	-2.050151E-002
307	4	-5.486849E-002	-5.810310E-004	-1.936130E-001	-2.050260E-002
308	1	-5.472638E-002	-1.617995E-003	-1.931146E-001	-5.709039E-002
308	2	-5.457484E-002	-1.617961E-003	-1.925786E-001	-5.709025E-002
308	3	-5.457451E-002	-1.646266E-003	-1.925780E-001	-5.809334E-002
308	4	-5.472582E-002	-1.646363E-003	-1.931119E-001	-5.809454E-002
309	1	-5.442943E-002	-2.610161E-003	-1.920663E-001	-9.210516E-002
309	2	-5.421250E-002	-2.610141E-003	-1.912993E-001	-9.210511E-002
309	3	-5.421166E-002	-2.651008E-003	-1.912978E-001	-9.354746E-002
309	4	-5.442870E-002	-2.651035E-003	-1.920644E-001	-9.354586E-002
310	1	-5.403269E-002	-3.507401E-003	-1.906639E-001	-1.237662E-001
310	2	-5.378313E-002	-3.507395E-003	-1.897862E-001	-1.237660E-001
310	3	-5.378283E-002	-3.554092E-003	-1.897837E-001	-1.254137E-001
310	4	-5.403177E-002	-3.554118E-003	-1.906633E-001	-1.254126E-001
311	1	-5.359590E-002	-4.273647E-003	-1.891231E-001	-1.508030E-001
311	2	-5.335185E-002	-4.273589E-003	-1.882636E-001	-1.508033E-001
311	3	-5.335173E-002	-4.319225E-003	-1.882635E-001	-1.524160E-001
311	4	-5.359454E-002	-4.319296E-003	-1.891213E-001	-1.524148E-001
312	1	-5.319073E-002	-4.871922E-003	-1.876953E-001	-1.719159E-001
312	2	-5.293310E-002	-4.871983E-003	-1.869973E-001	-1.719180E-001
312	3	-5.293295E-002	-4.909155E-003	-1.869967E-001	-1.732318E-001
312	4	-5.319081E-002	-4.909205E-003	-1.876937E-001	-1.732326E-001
313	1	-5.287448E-002	-5.262488E-003	-1.865792E-001	-1.856993E-001
313	2	-5.274927E-002	-5.262560E-003	-1.861347E-001	-1.856991E-001
313	3	-5.274945E-002	-5.286146E-003	-1.861372E-001	-1.865327E-001
313	4	-5.287436E-002	-5.286206E-003	-1.865792E-001	-1.865323E-001

314	1	-5.268277E-002	-5.392350E-003	-1.858997E-001	-1.902888E-001
314	2	-5.262230E-002	-5.392340E-003	-1.856883E-001	-1.902799E-001
314	3	-5.262238E-002	-5.403670E-003	-1.856893E-001	-1.906797E-001
314	4	-5.268259E-002	-5.403668E-003	-1.859904E-001	-1.906802E-001
315	1	-5.258356E-002	-5.188238E-003	-1.855525E-001	-1.830783E-001
315	2	-5.254428E-002	-5.188234E-003	-1.854115E-001	-1.830782E-001
315	3	-5.254389E-002	-5.195657E-003	-1.854120E-001	-1.833417E-001
315	4	-5.258341E-002	-5.195701E-003	-1.855525E-001	-1.833412E-001
316	1	-5.247261E-002	-4.517567E-003	-1.851592E-001	-1.594110E-001
316	2	-5.233751E-002	-4.517538E-003	-1.846852E-001	-1.594117E-001
316	3	-5.233742E-002	-4.542901E-003	-1.846848E-001	-1.603077E-001
316	4	-5.247264E-002	-4.543018E-003	-1.851600E-001	-1.603082E-001
317	1	-5.177936E-002	-2.967574E-003	-1.827132E-001	-1.047184E-001
317	2	-5.843272E-002	-2.967612E-003	-1.779618E-001	-1.047187E-001
317	3	-5.843575E-002	-3.220678E-003	-1.779714E-001	-1.136476E-001
317	4	-5.178129E-002	-3.220627E-003	-1.827213E-001	-1.136453E-001
318	1	-4.880291E-002	-4.858762E-004	-1.693864E-001	-1.714456E-002
318	2	-4.278058E-002	-4.859051E-004	-1.509606E-001	-1.714465E-002
318	3	-4.279145E-002	-1.467461E-003	-1.509979E-001	-5.178212E-002
318	4	-4.881320E-002	-1.467505E-003	-1.694240E-001	-5.178352E-002
319	1	-3.827944E-002	+9.801815E-004	-1.350771E-001	+3.458663E-002
319	2	-3.124438E-002	+9.801586E-004	-1.182516E-001	+3.458516E-002
319	3	-3.125788E-002	-3.424128E-004	-1.182995E-001	-1.208243E-002
319	4	-3.829293E-002	-3.422567E-004	-1.351248E-001	-1.207815E-002
320	1	-2.775028E-002	+5.604097E-004	-9.792171E-002	+1.977683E-002
320	2	-2.523128E-004	+5.599696E-006	-8.983426E-002	+1.975838E-002
320	3	-2.523625E-004	+8.638617E-007	-8.985045E-002	+3.847731E-003
320	4	-2.775600E-002	+8.651123E-005	-9.794075E-002	+3.851914E-003
321	1	-2.358334E-004	+3.841522E-005	-8.293677E-002	+1.355558E-001
321	2	-2.139613E-004	+3.841495E-005	-7.550206E-002	+1.355550E-001
321	3	-2.140050E-004	+3.444367E-005	-7.551556E-002	+1.215643E-001
321	4	-2.358837E-004	+3.445068E-005	-8.295235E-002	+1.215648E-001
322	1	-2.000703E-004	+4.193236E-005	-7.060803E-002	+1.479651E-001
322	2	-1.832826E-004	+4.193198E-005	-6.467565E-002	+1.479649E-001
322	3	-1.833191E-004	+3.877391E-005	-6.468794E-002	+1.368227E-001
322	4	-2.001018E-004	+3.877456E-005	-7.061037E-002	+1.368221E-001
323	1	-1.697229E-004	+3.220283E-005	-5.989815E-002	+1.136335E-001
323	2	-1.491948E-004	+3.220249E-005	-5.264638E-002	+1.136338E-001
323	3	-1.492356E-004	+2.834088E-005	-5.266140E-002	+1.000034E-001
323	4	-1.697681E-004	+2.834020E-005	-5.990544E-002	+1.000039E-001
324	1	-1.388420E-004	+1.167792E-005	-4.899330E-002	+4.120987E-002
324	2	-1.304914E-004	+1.167798E-005	-4.604718E-002	+4.120932E-002
324	3	-1.305086E-004	+1.010803E-005	-4.605241E-002	+3.566734E-002
324	4	-1.388632E-004	+1.010725E-005	-4.899859E-002	+3.566731E-002
325	1	-5.287370E-002	-5.541406E-004	-1.865757E-001	-1.955289E-002
325	2	-5.282848E-002	-5.540331E-004	-1.864161E-001	-1.955194E-002
325	3	-5.282867E-002	-5.626529E-004	-1.864159E-001	-1.985491E-002
325	4	-5.287378E-002	-5.626592E-004	-1.865756E-001	-1.985640E-002
326	1	-5.277244E-002	-1.582620E-003	-1.862197E-001	-5.584782E-002
326	2	-5.267597E-002	-1.582662E-003	-1.858786E-001	-5.584687E-002
326	3	-5.267602E-002	-1.600967E-003	-1.858779E-001	-5.649019E-002
326	4	-5.277215E-002	-1.600894E-003	-1.862194E-001	-5.648977E-002
327	1	-5.259586E-002	-2.563865E-003	-1.855949E-001	-9.047138E-002
327	2	-5.247372E-002	-2.563803E-003	-1.851641E-001	-9.047044E-002
327	3	-5.247358E-002	-2.586913E-003	-1.851620E-001	-9.128213E-002
327	4	-5.259555E-002	-2.586840E-003	-1.855946E-001	-9.128170E-002
328	1	-5.238596E-002	-3.460664E-003	-1.848562E-001	-1.221167E-001
328	2	-5.227149E-002	-3.460617E-003	-1.844508E-001	-1.221153E-001
328	3	-5.227114E-002	-3.482348E-003	-1.844499E-001	-1.228812E-001
328	4	-5.238686E-002	-3.482407E-003	-1.848560E-001	-1.228808E-001

329	1	-5.220431E-002	-4.239761E-003	-1.842144E-001	-1.496882E-001
329	2	-5.213761E-002	-4.239714E-003	-1.839781E-001	-1.496873E-001
329	3	-5.213805E-002	-4.252296E-003	-1.839787E-001	-1.500523E-001
329	4	-5.220473E-002	-4.252282E-003	-1.842151E-001	-1.500519E-001
330	1	-5.212208E-002	-4.864596E-003	-1.839246E-001	-1.716592E-001
330	2	-5.214689E-002	-4.864684E-003	-1.840122E-001	-1.716602E-001
330	3	-5.214733E-002	-4.860023E-003	-1.840189E-001	-1.714958E-001
330	4	-5.212214E-002	-4.860008E-003	-1.839248E-001	-1.714973E-001
331	1	-5.221031E-002	-5.292201E-003	-1.842361E-001	-1.867465E-001
331	2	-5.235963E-002	-5.292231E-003	-1.847615E-001	-1.867457E-001
331	3	-5.235926E-002	-5.264228E-003	-1.847607E-001	-1.857587E-001
331	4	-5.221055E-002	-5.264213E-003	-1.842362E-001	-1.857582E-001
332	1	-5.252824E-002	-5.468425E-003	-1.853570E-001	-1.929630E-001
332	2	-5.203995E-002	-5.468321E-003	-1.864570E-001	-1.929617E-001
332	3	-5.203977E-002	-5.409819E-003	-1.864564E-001	-1.908934E-001
332	4	-5.252817E-002	-5.409744E-003	-1.853558E-001	-1.908949E-001
333	1	-5.310121E-002	-5.288795E-003	-1.873739E-001	-1.866284E-001
333	2	-5.350387E-002	-5.288769E-003	-1.887996E-001	-1.866243E-001
333	3	-5.350347E-002	-5.213203E-003	-1.887986E-001	-1.839568E-001
333	4	-5.310162E-002	-5.213150E-003	-1.873800E-001	-1.839577E-001
334	1	-5.390324E-002	-4.685491E-003	-1.920896E-001	-1.653401E-001
334	2	-5.459220E-002	-4.685523E-003	-1.926406E-001	-1.653412E-001
334	3	-5.459246E-002	-4.555799E-003	-1.926414E-001	-1.607618E-001
334	4	-5.390285E-002	-4.555842E-003	-1.920263E-001	-1.607613E-001
335	1	-5.513124E-002	-3.876425E-003	-1.945414E-001	-1.085573E-001
335	2	-5.591457E-002	-3.876398E-003	-1.973070E-001	-1.085566E-001
335	3	-5.591464E-002	-2.928964E-003	-1.973073E-001	-1.033543E-001
335	4	-5.513158E-002	-2.928948E-003	-1.945433E-001	-1.033537E-001
336	1	-5.404465E-002	+1.388720E-003	-1.987064E-001	+4.980347E-002
336	2	-4.815076E-002	+1.388762E-003	-1.699114E-001	+4.980418E-002
336	3	-4.816082E-002	+2.789792E-004	-1.699450E-001	+9.844602E-003
336	4	-5.404714E-002	+2.789196E-004	-1.987158E-001	+9.845134E-003
337	1	-4.117263E-002	+4.825270E-003	-1.452865E-001	+1.702714E-001
337	2	-2.818049E-002	+4.825296E-003	-9.915888E-002	+1.702721E-001
337	3	-2.812658E-002	+2.364747E-003	-9.925105E-002	+8.344517E-002
337	4	-4.119895E-002	+2.364687E-003	-1.453787E-001	+8.344571E-002
338	1	-2.317775E-002	+8.598536E-004	-8.178997E-002	+3.831345E-002
338	2	-2.268719E-004	+8.590044E-006	-8.895727E-002	+3.831304E-002
338	3	-2.268852E-004	+7.665925E-006	-8.896150E-002	+2.705867E-002
338	4	-2.317862E-002	+7.667799E-004	-8.179288E-002	+2.705672E-002
339	1	-2.268566E-004	+3.839178E-005	-8.005203E-002	+1.354753E-001
339	2	-2.325980E-004	+3.839213E-005	-8.207815E-002	+1.354740E-001
339	3	-2.325877E-004	+3.947140E-005	-8.207402E-002	+1.392829E-001
339	4	-2.268525E-004	+3.947107E-005	-8.004836E-002	+1.392815E-001
340	1	-2.173372E-004	+5.514491E-005	-7.669297E-002	+1.945882E-001
340	2	-1.784012E-004	+5.514407E-005	-6.012991E-002	+1.945888E-001
340	3	-1.784895E-004	+4.631788E-005	-6.016155E-002	+1.634423E-001
340	4	-2.174311E-004	+4.631792E-005	-7.672505E-002	+1.634428E-001
341	1	-1.405744E-004	+4.258222E-005	-4.960541E-002	+1.502620E-001
341	2	-1.056695E-004	+4.258247E-005	-3.728714E-002	+1.502607E-001
341	3	-1.057363E-004	+3.601882E-005	-3.731150E-002	+1.271804E-001
341	4	-1.406474E-004	+3.601894E-005	-4.963037E-002	+1.271809E-001
342	1	-9.227554E-005	+1.229991E-005	-3.256276E-002	+4.340289E-002
342	2	-9.297278E-005	+1.229897E-005	-3.288655E-002	+4.339889E-002
342	3	-9.296479E-005	+1.242612E-005	-3.288525E-002	+4.384812E-002
342	4	-9.226315E-005	+1.243163E-005	-3.255694E-002	+4.384818E-002
343	1	-5.791898E-005	+1.289743E-005	-2.843826E-002	+4.551342E-002
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344	1	-5.892243E-002	-5.406680E-004	-1.796905E-001	-1.907788E-002

344	2	-5.888222E-002	-5.405837E-004	-1.795484E-001	-1.907629E-002
344	3	-5.888198E-002	-5.482218E-004	-1.795489E-001	-1.934369E-002
344	4	-5.892266E-002	-5.482351E-004	-1.796912E-001	-1.934414E-002
345	1	-5.884167E-002	-1.565442E-003	-1.794063E-001	-5.524178E-002
345	2	-5.888078E-002	-1.565432E-003	-1.792611E-001	-5.524099E-002
345	3	-5.888158E-002	-1.573202E-003	-1.792626E-001	-5.551375E-002
345	4	-5.884212E-002	-1.573216E-003	-1.794055E-001	-5.551229E-002
346	1	-5.077428E-002	-2.546835E-003	-1.791676E-001	-8.986818E-002
346	2	-5.073990E-002	-2.546765E-003	-1.790478E-001	-8.986738E-002
346	3	-5.074078E-002	-2.553098E-003	-1.790487E-001	-9.009217E-002
346	4	-5.077403E-002	-2.553105E-003	-1.791654E-001	-9.009264E-002
347	1	-5.073109E-002	-3.454998E-003	-1.790159E-001	-1.219162E-001
347	2	-5.074035E-002	-3.454972E-003	-1.790480E-001	-1.219178E-001
347	3	-5.074058E-002	-3.453285E-003	-1.790483E-001	-1.218586E-001
347	4	-5.073127E-002	-3.453299E-003	-1.790147E-001	-1.218590E-001
348	1	-5.077845E-002	-4.259613E-003	-1.791815E-001	-1.503081E-001
348	2	-5.087397E-002	-4.259588E-003	-1.795285E-001	-1.503078E-001
348	3	-5.087405E-002	-4.241757E-003	-1.795180E-001	-1.496778E-001
348	4	-5.077863E-002	-4.241638E-003	-1.791842E-001	-1.496783E-001
349	1	-5.099236E-002	-4.925224E-003	-1.799377E-001	-1.737973E-001
349	2	-5.122096E-002	-4.925174E-003	-1.807451E-001	-1.737935E-001
349	3	-5.122081E-002	-4.882059E-003	-1.807425E-001	-1.722741E-001
349	4	-5.099194E-002	-4.882075E-003	-1.799360E-001	-1.722748E-001
350	1	-5.146138E-002	-5.412308E-003	-1.815926E-001	-1.909851E-001
350	2	-5.188075E-002	-5.412344E-003	-1.830991E-001	-1.909866E-001
350	3	-5.188078E-002	-5.331923E-003	-1.830996E-001	-1.881483E-001
350	4	-5.146101E-002	-5.331939E-003	-1.815894E-001	-1.881488E-001
351	1	-5.227649E-002	-5.652517E-003	-1.844693E-001	-1.994605E-001
351	2	-5.290965E-002	-5.652444E-003	-1.867016E-001	-1.994681E-001
351	3	-5.290985E-002	-5.533406E-003	-1.867040E-001	-1.952591E-001
351	4	-5.227706E-002	-5.533422E-003	-1.844700E-001	-1.952596E-001
352	1	-5.353598E-002	-5.593981E-003	-1.889128E-001	-1.973948E-001
352	2	-5.461672E-002	-5.593892E-003	-1.927256E-001	-1.973919E-001
352	3	-5.461663E-002	-5.396660E-003	-1.927262E-001	-1.902201E-001
352	4	-5.353565E-002	-5.396796E-003	-1.889132E-001	-1.902245E-001
353	1	-5.526613E-002	-4.911036E-003	-1.950160E-001	-1.732956E-001
353	2	-5.595905E-002	-4.911000E-003	-1.974622E-001	-1.732964E-001
353	3	-5.595788E-002	-4.780788E-003	-1.974584E-001	-1.686987E-001
353	4	-5.526568E-002	-4.780685E-003	-1.950167E-001	-1.686979E-001
354	1	-5.803876E-002	-4.415401E-003	-2.048012E-001	-1.558063E-001
354	2	-6.304196E-002	-4.415364E-003	-2.224546E-001	-1.558071E-001
354	3	-6.303208E-002	-3.474743E-003	-2.224207E-001	-1.226123E-001
354	4	-5.802832E-002	-3.474641E-003	-2.047662E-001	-1.226115E-001
355	1	-6.479278E-002	+1.805356E-003	-2.286365E-001	+6.378501E-002
355	2	-6.475474E-002	+1.805328E-003	-2.285012E-001	+6.378508E-002
355	3	-6.475486E-002	+1.798077E-003	-2.285006E-001	+6.345171E-002
355	4	-6.479310E-002	+1.798179E-003	-2.286355E-001	+6.345059E-002
356	1	-5.148450E-002	+1.502817E-002	-1.816755E-001	+5.302988E-001
356	2	-1.526815E-002	+1.502813E-002	-5.387553E-002	+5.302981E-001
356	3	-1.532472E-002	+8.215504E-003	-5.407656E-002	+2.899034E-001
356	4	-5.150000E-002	+8.215605E-003	-1.817279E-001	+2.899023E-001
357	1	-2.359127E-003	+7.549958E-004	-8.325231E-003	+2.664184E-002
357	2	-2.939054E-003	+7.664318E-004	-1.021599E-002	+2.664251E-002
357	3	-3.056946E-003	+9.039142E-004	-1.021410E-002	+3.020014E-002
357	4	-2.357679E-003	+8.550163E-004	-8.320787E-003	+3.019907E-002
358	1	-1.149519E-004	-2.076132E-005	-4.054213E-002	-7.326075E-002
358	2	-3.437218E-004	-2.076089E-005	-1.212896E-001	-7.326151E-002
358	3	-3.432664E-004	+2.225194E-005	-1.211298E-001	+7.852181E-002
358	4	-1.144975E-004	+2.225215E-005	-4.049395E-002	+7.852184E-002
359	1	-3.464453E-004	+1.142197E-004	-1.222503E-001	+4.830493E-001

359	2	-1.290136E-004	+1.142199E-004	-4.552471E-002	+4.030485E-001
359	3	-1.294403E-004	+7.333817E-005	-4.567854E-002	+2.587085E-001
359	4	-3.468721E-004	+7.333778E-005	-1.224024E-001	+2.587074E-001
360	1	-4.851739E-005	+4.612874E-005	-1.712047E-002	+1.627765E-001
360	2	-4.406325E-005	+4.612878E-005	-1.554777E-002	+1.627753E-001
360	3	-4.407891E-005	+4.529824E-005	-1.555481E-002	+1.598161E-001
360	4	-4.853895E-005	+4.529845E-005	-1.712445E-002	+1.598170E-001
361	1	-4.316343E-005	+1.153583E-005	-1.523242E-002	+4.070947E-002
361	2	-4.316343E-005	+1.153583E-005	-1.523242E-002	+4.070947E-002
361	3	-4.316343E-005	+1.153583E-005	-1.523242E-002	+4.070947E-002
362	1	-3.314010E-005	+1.250756E-005	-1.169167E-002	+4.413521E-002
362	2	-3.314010E-005	+1.250756E-005	-1.169167E-002	+4.413521E-002
362	3	-3.314010E-005	+1.250756E-005	-1.169167E-002	+4.413521E-002
363	1	-4.953852E-002	-5.366121E-004	-1.748097E-001	-1.893626E-002
363	2	-4.958671E-002	-5.365877E-004	-1.749775E-001	-1.893654E-002
363	3	-4.958767E-002	-5.333215E-004	-1.749769E-001	-1.882188E-002
363	4	-4.953949E-002	-5.333379E-004	-1.748150E-001	-1.882050E-002
364	1	-4.951072E-002	-1.562383E-003	-1.747138E-001	-5.513205E-002
364	2	-4.951942E-002	-1.562491E-003	-1.747389E-001	-5.513230E-002
364	3	-4.951973E-002	-1.561849E-003	-1.747398E-001	-5.511200E-002
364	4	-4.951241E-002	-1.561807E-003	-1.747111E-001	-5.511254E-002
365	1	-4.953666E-002	-2.544939E-003	-1.748039E-001	-8.980470E-002
365	2	-4.951560E-002	-2.544927E-003	-1.747292E-001	-8.980348E-002
365	3	-4.951653E-002	-2.546456E-003	-1.747289E-001	-8.985823E-002
365	4	-4.953857E-002	-2.546534E-003	-1.748015E-001	-8.985698E-002
366	1	-4.966469E-002	-3.457912E-003	-1.752503E-001	-1.220187E-001
366	2	-4.957706E-002	-3.457864E-003	-1.749416E-001	-1.220203E-001
366	3	-4.957737E-002	-3.464109E-003	-1.749423E-001	-1.222373E-001
366	4	-4.966634E-002	-3.464071E-003	-1.752531E-001	-1.222392E-001
367	1	-4.996160E-002	-4.271230E-003	-1.763041E-001	-1.507195E-001
367	2	-4.976766E-002	-4.271315E-003	-1.756157E-001	-1.507182E-001
367	3	-4.976736E-002	-4.284975E-003	-1.756173E-001	-1.512040E-001
367	4	-4.996394E-002	-4.284957E-003	-1.763059E-001	-1.512052E-001
368	1	-5.053864E-002	-4.950699E-003	-1.783364E-001	-1.746970E-001
368	2	-5.016958E-002	-4.950684E-003	-1.770389E-001	-1.746957E-001
368	3	-5.016930E-002	-4.976912E-003	-1.770317E-001	-1.756207E-001
368	4	-5.053758E-002	-4.976881E-003	-1.783332E-001	-1.756200E-001
369	1	-5.144512E-002	-5.456482E-003	-1.815359E-001	-1.925404E-001
369	2	-5.088042E-002	-5.456427E-003	-1.795426E-001	-1.925403E-001
369	3	-5.087988E-002	-5.496332E-003	-1.795423E-001	-1.939479E-001
369	4	-5.144634E-002	-5.496316E-003	-1.815343E-001	-1.939493E-001
370	1	-5.307852E-002	-5.723090E-003	-1.872976E-001	-2.019503E-001
370	2	-5.203484E-002	-5.723093E-003	-1.836150E-001	-2.019502E-001
370	3	-5.203321E-002	-5.796786E-003	-1.836124E-001	-2.045522E-001
370	4	-5.307841E-002	-5.796772E-003	-1.872985E-001	-2.045518E-001
371	1	-5.439917E-002	-5.686015E-003	-1.919539E-001	-2.006433E-001
371	2	-5.371279E-002	-5.686008E-003	-1.895321E-001	-2.006430E-001
371	3	-5.371080E-002	-5.734534E-003	-1.895303E-001	-2.023561E-001
371	4	-5.439910E-002	-5.734565E-003	-1.919538E-001	-2.023558E-001
372	1	-6.067558E-002	-5.073145E-003	-2.141089E-001	-1.790149E-001
372	2	-5.626436E-002	-5.073098E-003	-1.985419E-001	-1.790150E-001
372	3	-5.626574E-002	-5.305519E-003	-1.985442E-001	-1.900400E-001
372	4	-6.067742E-002	-5.305529E-003	-2.141099E-001	-1.900403E-001
373	1	-4.964228E-002	-4.520233E-003	-1.751769E-001	-1.595045E-001
373	2	-5.090223E-002	-4.520234E-003	-2.078460E-001	-1.595061E-001
373	3	-5.090139E-002	-3.865878E-003	-2.078502E-001	-1.364166E-001
373	4	-4.964213E-002	-3.865852E-003	-1.751713E-001	-1.364164E-001
374	1	-1.467533E-001	-9.476372E-005	-5.178491E-001	-3.344963E-003
374	2	-7.318154E-002	-9.475672E-005	-2.582340E-001	-3.344429E-003
374	3	-7.318096E-002	-5.293167E-003	-2.582340E-001	-1.867798E-001

374	4	-1.467522E-001	-5.293145E-003	-5.178406E-001	-1.867797E-001
375	1	-6.263158E-004	+8.939588E-005	-2.210005E+000	+3.154404E-001
375	2	-2.949685E-004	+8.939581E-005	-1.040821E+000	+3.154413E-001
375	3	-2.949684E-004	-1.451987E-004	-1.040818E+000	-5.123445E-001
375	4	-6.263163E-004	-1.451986E-004	-2.210011E+000	-5.123454E-001
376	1	-8.036495E-004	-3.430666E-006	-2.835741E+000	-1.210582E-002
376	2	-7.626155E-004	-3.431421E-006	-2.698950E+000	-1.210579E-002
376	3	-7.626146E-004	-3.242330E-005	-2.698949E+000	-1.144089E-001
376	4	-8.036494E-004	-3.242355E-005	-2.835733E+000	-1.144073E-001
377	1	-8.070502E-006	-3.430737E-007	-2.847740E+000	-1.210563E-001
377	2	-8.155533E-004	-3.430746E-005	-2.877745E+000	-1.210567E-001
377	3	-8.155533E-004	-2.829781E-005	-2.877744E+000	-9.985194E-002
377	4	-8.070509E-004	-2.829761E-005	-2.847741E+000	-9.985232E-002
378	1	-9.570155E-006	+1.002068E-006	-3.376908E+000	+3.535840E-001
378	2	-8.449538E-006	+1.002054E-006	-2.981488E+000	+3.535841E-001
378	3	-8.449533E-004	+2.102492E-005	-2.981488E+000	+7.418912E-002
378	4	-9.570148E-006	+2.102497E-007	-3.376904E+000	+7.418873E-002
379	1	-1.224593E-005	+3.457013E-008	-4.321081E+000	+1.219840E-002
379	2	-1.058737E-005	+3.457195E-008	-3.735846E+000	+1.220017E-002
379	3	-1.058739E-005	-1.139674E-006	-3.735843E+000	-4.021445E-001
379	4	-1.224593E-005	-1.139674E-006	-4.321081E+000	-4.021440E-001
380	1	-1.285300E-005	-5.736523E-007	-4.535285E+000	-2.024185E-001
380	2	-1.285300E-005	-5.736523E-007	-4.535285E+000	-2.024185E-001
380	3	-1.285300E-005	-5.736523E-007	-4.535285E+000	-2.024185E-001
381	1	-1.185133E-005	+2.761548E-007	-4.181839E+000	+9.744382E-002
381	2	-1.332096E-005	+2.761638E-007	-4.708480E+000	+9.744400E-002
381	3	-1.480821E-005	+2.365442E-006	-5.225203E+000	+8.346666E-001
381	4	-1.204022E-005	+2.365459E-006	-4.248493E+000	+8.346670E-001
381	5	-1.258615E-005	+2.761554E-007	-4.441125E+000	+9.744343E-002
381	6	-1.383673E-005	+1.000741E-006	-4.882486E+000	+3.531193E-001
381	7	-1.342422E-005	+2.365453E-006	-4.736843E+000	+8.346694E-001
381	8	-1.191604E-005	+1.000741E-006	-4.204957E+000	+3.531193E-001
381	9	-1.287679E-005	+1.000741E-006	-4.543684E+000	+3.531193E-001
382	1	-5.369758E-006	-1.169739E-005	-1.894758E+000	-4.127517E+000
382	2	-1.087292E-005	-8.423101E-006	-3.836598E+000	-9.272162E+000
382	3	-1.087292E-005	+6.512658E-007	-3.836600E+000	+2.298121E-001
382	4	-5.369724E-006	-2.240742E-006	-1.894752E+000	-7.934914E-001
382	5	-8.176928E-006	-1.002715E-005	-2.885297E+000	-3.538168E+000
382	6	-1.087290E-005	-3.885926E-006	-3.836600E+000	-1.371180E+000
382	7	-8.176928E-006	-7.694428E-007	-2.885297E+000	-2.715015E-001
382	8	-5.369736E-006	-6.973091E-006	-1.894758E+000	-2.460511E+000
382	9	-8.176928E-006	-5.398311E-006	-2.885297E+000	-1.904835E+000
383	1	-3.076222E-006	-5.459475E-006	-1.085475E+000	-1.926420E+000
383	2	-4.353897E-006	-4.702967E-006	-1.536307E+000	-1.659480E+000
383	3	-4.353891E-006	-2.710075E-006	-1.536302E+000	-9.590921E-001
383	4	-3.076219E-006	-3.388068E-006	-1.085468E+000	-1.195512E+000
383	5	-3.728679E-006	-5.073134E-006	-1.315691E+000	-1.790100E+000
383	6	-4.353904E-006	-3.710505E-006	-1.536309E+000	-1.309283E+000
383	7	-3.728684E-006	-3.045905E-006	-1.315693E+000	-1.074778E+000
383	8	-3.076231E-006	-4.423751E-006	-1.085472E+000	-1.560964E+000
383	9	-3.728677E-006	-4.059546E-006	-1.315692E+000	-1.432440E+000
384	1	-2.269763E-006	-3.892911E-006	-8.009870E-001	-1.373645E+000
384	2	-2.806790E-006	-3.573396E-006	-9.983940E-001	-1.260900E+000
384	3	-2.806783E-006	-2.702197E-006	-9.983961E-001	-9.817191E-001
384	4	-2.269754E-006	-3.065163E-006	-8.009887E-001	-1.081569E+000
384	5	-2.544330E-006	-3.729569E-006	-8.977805E-001	-1.316011E+000
384	6	-2.806793E-006	-3.177785E-006	-9.983955E-001	-1.121308E+000
384	7	-2.544330E-006	-2.920476E-006	-8.977885E-001	-1.030513E+000
384	8	-2.269759E-006	-3.479846E-006	-8.009840E-001	-1.227609E+000
384	9	-2.544330E-006	-3.325013E-006	-8.977885E-001	-1.173260E+000

385	1	-4.880454E-002	-5.316047E-004	-1.722204E-001	-1.875939E-002
385	2	-4.882807E-002	-5.316265E-004	-1.722996E-001	-1.875843E-002
385	3	-4.882807E-002	-5.299191E-004	-1.722991E-001	-1.869825E-002
385	4	-4.880553E-002	-5.299322E-004	-1.722219E-001	-1.869867E-002
386	1	-4.880194E-002	-1.561839E-003	-1.722086E-001	-5.511039E-002
386	2	-4.879791E-002	-1.561802E-003	-1.721937E-001	-5.510946E-002
386	3	-4.879823E-002	-1.562118E-003	-1.721938E-001	-5.512153E-002
386	4	-4.880364E-002	-1.562131E-003	-1.722130E-001	-5.512194E-002
387	1	-4.887420E-002	-2.548421E-003	-1.724628E-001	-8.992524E-002
387	2	-4.882434E-002	-2.548366E-003	-1.722843E-001	-8.992435E-002
387	3	-4.882283E-002	-2.551947E-003	-1.722844E-001	-9.005092E-002
387	4	-4.887516E-002	-2.552034E-003	-1.724705E-001	-9.005131E-002
388	1	-4.906436E-002	-3.469619E-003	-1.731343E-001	-1.224339E-001
388	2	-4.893776E-002	-3.469715E-003	-1.726900E-001	-1.224363E-001
388	3	-4.893808E-002	-3.478535E-003	-1.726901E-001	-1.227463E-001
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462	1	-1.111458E-006	+3.747391E-007	-3.921899E-001	+1.322281E-001
462	2	-1.610835E-005	+5.445837E-006	-1.720369E-001	+5.816166E-002
462	3	-4.875437E-005	-8.639675E-005	-1.720352E-001	-3.048576E-001
462	4	-1.111482E-006	-6.965014E-007	-3.921886E-001	-2.457621E-001
462	5	-7.932022E-007	+2.676036E-007	-2.798899E-001	+9.444696E-002
462	6	-4.875468E-005	-3.495716E-005	-1.720366E-001	-1.233485E-001
462	7	-6.654385E-005	-6.559661E-005	-2.798899E-001	-2.758997E-001
462	8	-1.111468E-006	-1.608744E-007	-3.921901E-001	-5.676598E-002
462	9	-7.932022E-007	-2.571297E-007	-2.798899E-001	-9.072604E-002
463	1	-1.695685E-006	-2.415237E-006	-5.983347E-001	-8.522390E-001
463	2	-1.740899E-006	-2.396153E-006	-6.142908E-001	-8.454998E-001
463	3	-1.740895E-006	-2.341278E-006	-6.142894E-001	-8.261413E-001

463	4	-1.695684E-006	-2.357298E-006	-5.983491E-001	-8.317913E-001
463	5	-1.718899E-006	-2.405447E-006	-6.065280E-001	-8.487784E-001
463	6	-1.740911E-006	-2.368707E-006	-6.142945E-001	-8.358179E-001
463	7	-1.718905E-006	-2.349053E-006	-6.065323E-001	-8.288817E-001
463	8	-1.695703E-006	-2.386268E-006	-5.983410E-001	-8.420182E-001
463	9	-1.718900E-006	-2.377259E-006	-6.065316E-001	-8.388358E-001
464	1	-1.724160E-006	-1.911575E-006	-6.083790E-001	-6.745145E-001
464	2	-1.269558E-006	-2.063799E-006	-4.479756E-001	-7.282227E-001
464	3	-1.269549E-006	-2.770087E-006	-4.479737E-001	-9.774165E-001
464	4	-1.724155E-006	-2.640567E-006	-6.083846E-001	-9.345757E-001
464	5	-1.491992E-006	-1.989280E-006	-5.264636E-001	-7.019373E-001
464	6	-1.269553E-006	-2.416913E-006	-4.479679E-001	-8.528247E-001
464	7	-1.492008E-006	-2.710608E-006	-5.264661E-001	-9.564552E-001
464	8	-1.724145E-006	-2.280063E-006	-6.083836E-001	-8.045385E-001
464	9	-1.492005E-006	-2.349957E-006	-5.264648E-001	-8.291957E-001
465	1	-1.483968E-006	-2.233931E-006	-5.236296E-001	-7.882484E-001
465	2	-1.529339E-006	-2.210878E-006	-5.396394E-001	-7.801261E-001
465	3	-1.529353E-006	-2.167263E-006	-5.396342E-001	-7.647374E-001
465	4	-1.483974E-006	-2.187202E-006	-5.236251E-001	-7.717706E-001
465	5	-1.507430E-006	-2.222016E-006	-5.319057E-001	-7.840524E-001
465	6	-1.529305E-006	-2.189868E-006	-5.396329E-001	-7.724333E-001
465	7	-1.507430E-006	-2.176897E-006	-5.319057E-001	-7.681459E-001
465	8	-1.483971E-006	-2.210551E-006	-5.236189E-001	-7.800180E-001
465	9	-1.507430E-006	-2.199455E-006	-5.319057E-001	-7.760981E-001
466	1	-1.243889E-006	-2.078956E-006	-4.389168E-001	-7.335982E-001
466	2	-1.316379E-006	-2.036146E-006	-4.644972E-001	-7.184661E-001
466	3	-1.316430E-006	-1.978870E-006	-4.645129E-001	-6.982628E-001
466	4	-1.243889E-006	-2.017039E-006	-4.389244E-001	-7.117266E-001
466	5	-1.281554E-006	-2.056744E-006	-4.522066E-001	-7.257419E-001
466	6	-1.316404E-006	-2.007496E-006	-4.644958E-001	-7.083628E-001
466	7	-1.281563E-006	-1.997213E-006	-4.522064E-001	-7.047272E-001
466	8	-1.243889E-006	-2.048009E-006	-4.389244E-001	-7.226555E-001
466	9	-1.281545E-006	-2.026984E-006	-4.522054E-001	-7.152432E-001
467	1	-1.669505E-006	-2.288002E-006	-5.890991E-001	-8.073331E-001
467	2	-1.778528E-006	-2.251797E-006	-6.275694E-001	-7.945663E-001
467	3	-1.778516E-006	-2.098714E-006	-6.275629E-001	-7.377311E-001
467	4	-1.669513E-006	-2.119918E-006	-5.891013E-001	-7.480332E-001
467	5	-1.725171E-006	-2.269477E-006	-6.087414E-001	-8.008098E-001
467	6	-1.778497E-006	-2.171241E-006	-6.275623E-001	-7.661434E-001
467	7	-1.725171E-006	-2.104990E-006	-6.087414E-001	-7.427685E-001
467	8	-1.669498E-006	-2.203942E-006	-5.890992E-001	-7.776797E-001
467	9	-1.725171E-006	-2.187251E-006	-6.087414E-001	-7.717868E-001
468	1	-1.666255E-006	-2.339898E-006	-5.879511E-001	-8.256488E-001
468	2	-1.686012E-006	-2.331562E-006	-5.949189E-001	-8.227139E-001
468	3	-1.685994E-006	-2.309189E-006	-5.949152E-001	-8.147857E-001
468	4	-1.666229E-006	-2.316146E-006	-5.879479E-001	-8.172739E-001
468	5	-1.676379E-006	-2.335595E-006	-5.915315E-001	-8.241441E-001
468	6	-1.685992E-006	-2.320344E-006	-5.949176E-001	-8.187498E-001
468	7	-1.676379E-006	-2.312537E-006	-5.915315E-001	-8.159963E-001
468	8	-1.666224E-006	-2.328012E-006	-5.879486E-001	-8.214563E-001
468	9	-1.676379E-006	-2.324071E-006	-5.915315E-001	-8.200654E-001
469	1	-1.747884E-006	-2.347555E-006	-6.167499E-001	-8.283566E-001
469	2	-1.664340E-006	-2.375525E-006	-5.872889E-001	-8.382304E-001
469	3	-1.664353E-006	-2.491094E-006	-5.872824E-001	-8.790858E-001
469	4	-1.747893E-006	-2.468793E-006	-6.167580E-001	-8.711292E-001
469	5	-1.705136E-006	-2.361981E-006	-6.016780E-001	-8.334136E-001
469	6	-1.664352E-006	-2.433333E-006	-5.872818E-001	-8.586183E-001
469	7	-1.705133E-006	-2.480216E-006	-6.016713E-001	-8.751691E-001
469	8	-1.747918E-006	-2.408196E-006	-6.167597E-001	-8.497463E-001
469	9	-1.705120E-006	-2.421060E-006	-6.016688E-001	-8.542885E-001

470	1	-1.408974E-006	-2.106987E-006	-4.971627E-001	-7.434745E-001
470	2	-1.468771E-006	-2.076031E-006	-5.182671E-001	-7.328185E-001
470	3	-1.468762E-006	-2.024561E-006	-5.182686E-001	-7.143824E-001
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470	5	-1.439917E-006	-2.091372E-006	-5.080928E-001	-7.379538E-001
470	6	-1.468763E-006	-2.050675E-006	-5.182668E-001	-7.235963E-001
470	7	-1.439917E-006	-2.037277E-006	-5.080928E-001	-7.188715E-001
470	8	-1.408949E-006	-2.079003E-006	-4.971656E-001	-7.335941E-001
470	9	-1.439917E-006	-2.064334E-006	-5.080928E-001	-7.284217E-001
471	1	-1.599183E-006	-2.258422E-006	-5.642748E-001	-7.969028E-001
471	2	-1.655559E-006	-2.234657E-006	-5.841795E-001	-7.885185E-001
471	3	-1.655530E-006	-2.176039E-006	-5.841718E-001	-7.678309E-001
471	4	-1.599154E-006	-2.195775E-006	-5.642838E-001	-7.747996E-001
471	5	-1.628388E-006	-2.246114E-006	-5.745589E-001	-7.925597E-001
471	6	-1.655585E-006	-2.205319E-006	-5.841812E-001	-7.781727E-001
471	7	-1.628324E-006	-2.185592E-006	-5.745590E-001	-7.712830E-001
471	8	-1.599176E-006	-2.227885E-006	-5.642793E-001	-7.858522E-001
471	9	-1.628316E-006	-2.215853E-006	-5.745632E-001	-7.818826E-001
472	1	-1.148102E-006	-1.920487E-006	-4.051165E-001	-6.776263E-001
472	2	-1.222579E-006	-1.876297E-006	-4.313979E-001	-6.620648E-001
472	3	-1.222580E-006	-1.824203E-006	-4.313950E-001	-6.436933E-001
472	4	-1.148103E-006	-1.863292E-006	-4.051277E-001	-6.574762E-001
472	5	-1.187061E-006	-1.897357E-006	-4.188714E-001	-6.694958E-001
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472	8	-1.148102E-006	-1.891802E-006	-4.051259E-001	-6.675487E-001
472	9	-1.187061E-006	-1.870899E-006	-4.188714E-001	-6.598788E-001
473	1	-1.814614E-006	-2.385292E-006	-6.403050E-001	-8.416727E-001
473	2	-1.767245E-006	-2.401276E-006	-6.235879E-001	-8.473052E-001
473	3	-1.767243E-006	-2.463173E-006	-6.235828E-001	-8.691490E-001
473	4	-1.814630E-006	-2.450235E-006	-6.402954E-001	-8.645866E-001
473	5	-1.790367E-006	-2.393479E-006	-6.317456E-001	-8.445541E-001
473	6	-1.767240E-006	-2.432229E-006	-6.235819E-001	-8.582259E-001
473	7	-1.790367E-006	-2.456868E-006	-6.317456E-001	-8.669230E-001
473	8	-1.814607E-006	-2.417772E-006	-6.402997E-001	-8.531246E-001
473	9	-1.790367E-006	-2.425169E-006	-6.317456E-001	-8.557376E-001
474	1	-1.302394E-006	-1.967030E-006	-4.595591E-001	-6.940914E-001
474	2	-1.388137E-006	-1.923586E-006	-4.898253E-001	-6.787492E-001
474	3	-1.388190E-006	-1.855784E-006	-4.898335E-001	-6.548265E-001
474	4	-1.302423E-006	-1.893428E-006	-4.595744E-001	-6.681148E-001
474	5	-1.347064E-006	-1.944413E-006	-4.753221E-001	-6.861848E-001
474	6	-1.388162E-006	-1.889668E-006	-4.898230E-001	-6.667858E-001
474	7	-1.347052E-006	-1.873832E-006	-4.753206E-001	-6.612011E-001
474	8	-1.302394E-006	-1.930257E-006	-4.595515E-001	-6.811024E-001
474	9	-1.347033E-006	-1.909130E-006	-4.753148E-001	-6.736488E-001
475	1	-1.610331E-006	-2.126393E-006	-5.710380E-001	-7.503213E-001
475	2	-1.593666E-006	-2.136755E-006	-5.623349E-001	-7.539743E-001
475	3	-1.593641E-006	-2.160489E-006	-5.623357E-001	-7.623470E-001
475	4	-1.610335E-006	-2.151695E-006	-5.710503E-001	-7.592491E-001
475	5	-1.605569E-006	-2.131716E-006	-5.665428E-001	-7.522804E-001
475	6	-1.593652E-006	-2.148611E-006	-5.623348E-001	-7.581534E-001
475	7	-1.605569E-006	-2.156230E-006	-5.665428E-001	-7.608380E-001
475	8	-1.610336E-006	-2.139052E-006	-5.710374E-001	-7.547818E-001
475	9	-1.605569E-006	-2.143987E-006	-5.665428E-001	-7.565238E-001
476	1	-1.880394E-006	-2.293345E-006	-6.663294E-001	-8.092303E-001
476	2	-1.829890E-006	-2.312941E-006	-6.456898E-001	-8.161456E-001
476	3	-1.829883E-006	-2.383917E-006	-6.456875E-001	-8.411825E-001
476	4	-1.880346E-006	-2.368284E-006	-6.663197E-001	-8.356704E-001
476	5	-1.858333E-006	-2.303429E-006	-6.557273E-001	-8.127831E-001
476	6	-1.829886E-006	-2.348427E-006	-6.456922E-001	-8.286642E-001

476	7	-1.858344E-006	-2.376322E-006	-6.557385E-001	-8.385085E-001
476	8	-1.880301E-006	-2.330835E-006	-6.663275E-001	-8.224536E-001
476	9	-1.858342E-006	-2.339875E-006	-6.557308E-001	-8.256444E-001
477	1	-7.164518E-004	-1.528606E-004	-2.528191E-001	-5.394004E-001
477	2	-3.492303E-004	-1.525743E-004	-1.232318E-001	-5.383835E-001
477	3	-3.492095E-004	-1.982474E-004	-1.232305E-001	-6.995540E-001
477	4	-7.164514E-004	-1.986085E-004	-2.528193E-001	-7.008311E-001
478	1	-2.215059E-007	-2.323792E-004	-2.703286E-003	-2.835068E+000
478	2	-6.248156E-007	-8.020284E-006	-2.204702E-001	-2.832840E+000
478	3	-6.248226E-007	-7.022107E-006	-2.204725E-001	-2.477888E+000
478	4	-4.393668E-007	-4.031679E-004	-2.703964E-003	-2.480600E+000
479	1	-4.658722E-002	-5.285311E-004	-1.643907E-001	-1.865122E-002
479	2	-4.657842E-002	-5.285408E-004	-1.643628E-001	-1.864975E-002
479	3	-4.657875E-002	-5.291039E-004	-1.643629E-001	-1.867244E-002
479	4	-4.658922E-002	-5.291203E-004	-1.643962E-001	-1.867296E-002
480	1	-4.666011E-002	-1.570572E-003	-1.646522E-001	-5.542035E-002
480	2	-4.661001E-002	-1.570582E-003	-1.644709E-001	-5.541888E-002
480	3	-4.661012E-002	-1.574108E-003	-1.644701E-001	-5.554686E-002
480	4	-4.666030E-002	-1.574064E-003	-1.646529E-001	-5.554659E-002
481	1	-4.684623E-002	-2.578003E-003	-1.653036E-001	-9.097052E-002
481	2	-4.672486E-002	-2.577998E-003	-1.648757E-001	-9.096955E-002
481	3	-4.672464E-002	-2.586680E-003	-1.648759E-001	-9.127506E-002
481	4	-4.684814E-002	-2.586697E-003	-1.653112E-001	-9.127640E-002
482	1	-4.720297E-002	-3.531568E-003	-1.665621E-001	-1.246105E-001
482	2	-4.697435E-002	-3.531519E-003	-1.657602E-001	-1.246190E-001
482	3	-4.697438E-002	-3.547581E-003	-1.657575E-001	-1.251836E-001
482	4	-4.720052E-002	-3.547598E-003	-1.665610E-001	-1.251822E-001
483	1	-4.780951E-002	-4.408510E-003	-1.687027E-001	-1.555639E-001
483	2	-4.742482E-002	-4.408454E-003	-1.673507E-001	-1.555625E-001
483	3	-4.742420E-002	-4.435685E-003	-1.673450E-001	-1.565219E-001
483	4	-4.780896E-002	-4.435703E-003	-1.687029E-001	-1.565225E-001
484	1	-4.877929E-002	-5.182445E-003	-1.721307E-001	-1.828763E-001
484	2	-4.817193E-002	-5.182456E-003	-1.699868E-001	-1.828749E-001
484	3	-4.817182E-002	-5.225462E-003	-1.699848E-001	-1.843933E-001
484	4	-4.878034E-002	-5.225480E-003	-1.721234E-001	-1.843920E-001
485	1	-5.027066E-002	-5.820797E-003	-1.773908E-001	-2.053980E-001
485	2	-4.934303E-002	-5.820794E-003	-1.741145E-001	-2.053986E-001
485	3	-4.934163E-002	-5.886447E-003	-1.741143E-001	-2.077152E-001
485	4	-5.027039E-002	-5.886387E-003	-1.773921E-001	-2.077158E-001
486	1	-5.250547E-002	-6.272491E-003	-1.852748E-001	-2.213388E-001
486	2	-5.111799E-002	-6.272445E-003	-1.803821E-001	-2.213386E-001
486	3	-5.111772E-002	-6.370536E-003	-1.803819E-001	-2.247963E-001
486	4	-5.250542E-002	-6.370417E-003	-1.852759E-001	-2.247949E-001
487	1	-5.571581E-002	-6.456398E-003	-1.966034E-001	-2.270289E-001
487	2	-5.373580E-002	-6.456457E-003	-1.896199E-001	-2.270299E-001
487	3	-5.373621E-002	-6.596292E-003	-1.896216E-001	-2.327641E-001
487	4	-5.571697E-002	-6.596311E-003	-1.966080E-001	-2.327647E-001
488	1	-6.019299E-002	-6.182561E-003	-2.124034E-001	-2.181658E-001
488	2	-5.744562E-002	-6.182576E-003	-2.027893E-001	-2.181638E-001
488	3	-5.744561E-002	-6.377015E-003	-2.027899E-001	-2.250296E-001
488	4	-6.019490E-002	-6.377035E-003	-2.124046E-001	-2.250283E-001
489	1	-6.516427E-002	-5.627668E-003	-2.299446E-001	-1.985812E-001
489	2	-6.226133E-002	-5.627618E-003	-2.197027E-001	-1.985819E-001
489	3	-6.226152E-002	-5.832718E-003	-2.197025E-001	-2.058175E-001
489	4	-6.516529E-002	-5.832679E-003	-2.299436E-001	-2.058182E-001
490	1	-5.731528E-002	-6.942442E-003	-2.022486E-001	-2.449816E-001
490	2	-6.383683E-002	-6.942493E-003	-2.252658E-001	-2.449823E-001
490	3	-6.383793E-002	-6.481629E-003	-2.252680E-001	-2.287164E-001
490	4	-5.731380E-002	-6.481658E-003	-2.022466E-001	-2.287170E-001
491	1	-2.699261E-002	-8.695771E-003	-9.524822E-002	-3.068451E-001

491	2	-4.744246E-002	-8.695714E-003	-1.674892E-001	-3.068458E-001
491	3	-4.744181E-002	-7.247906E-003	-1.674873E-001	-2.557575E-001
491	4	-2.699410E-002	-7.247927E-003	-9.525418E-002	-2.557563E-001
492	1	-8.893894E-003	-4.546686E-003	-3.138161E-002	-1.604400E-001
492	2	-1.666366E-002	-4.546768E-003	-5.879859E-002	-1.604407E-001
492	3	-1.666484E-002	-3.997592E-003	-5.880094E-002	-1.410670E-001
492	4	-8.893806E-003	-3.997614E-003	-3.138126E-002	-1.410658E-001
493	1	-3.982229E-003	-1.926706E-003	-1.405552E-002	-6.799801E-002
493	2	-5.495850E-003	-1.926804E-003	-1.939071E-002	-6.798965E-002
493	3	-5.496540E-003	-1.819818E-003	-1.939295E-002	-6.421776E-002
493	4	-3.983628E-003	-1.819840E-003	-1.405289E-002	-6.421846E-002
494	1	-3.111570E-003	-7.644460E-004	-1.097970E-002	-2.697655E-002
494	2	-3.343384E-003	-7.645440E-004	-1.180046E-002	-2.697730E-002
494	3	-3.343369E-003	-7.480290E-004	-1.179856E-002	-2.639748E-002
494	4	-3.111273E-003	-7.480510E-004	-1.097992E-002	-2.639810E-002
495	1	-1.760586E-004	-1.862105E-004	-6.212073E-002	-6.578088E-001
495	2	-6.932746E-005	-1.862101E-004	-2.446392E-002	-6.570798E-001
495	3	-6.932594E-005	-1.937647E-004	-2.446467E-002	-6.837397E-001
495	4	-1.760388E-004	-1.937644E-004	-6.211753E-002	-6.837404E-001
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496	2	-1.125791E-006	-1.705689E-006	-3.972364E-001	-6.018697E-001
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496	4	-1.046073E-006	-1.698723E-006	-3.691203E-001	-5.994033E-001
496	5	-1.088054E-006	-1.728123E-006	-3.839172E-001	-6.097860E-001
496	6	-1.125757E-006	-1.681288E-006	-3.972418E-001	-5.932217E-001
496	7	-1.088042E-006	-1.676612E-006	-3.839193E-001	-5.916033E-001
496	8	-1.046870E-006	-1.725874E-006	-3.691281E-001	-6.089918E-001
496	9	-1.088044E-006	-1.702380E-006	-3.839228E-001	-6.006918E-001
497	1	-3.582149E-006	-5.962467E-006	-2.459355E-001	-4.093655E-001
497	2	+1.861630E-005	-1.359820E-004	+3.745621E-002	-4.798292E-001
497	3	+1.861558E-005	-2.684137E-004	+3.745732E-002	-9.471186E-001
497	4	-6.369745E-005	-2.539068E-004	-2.459292E-001	-8.959314E-001
497	5	-2.916209E-005	-1.280999E-004	-1.013762E-001	-4.453057E-001
497	6	+1.861590E-005	-2.021984E-004	+3.745783E-002	-7.134700E-001
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498	1	-1.468274E-006	-1.998688E-006	-5.180769E-001	-7.052611E-001
498	2	-1.604864E-006	-1.941352E-006	-5.660077E-001	-6.850188E-001
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499	1	-1.379870E-006	-2.332484E-006	-4.866259E-001	-8.230354E-001
499	2	-1.835323E-006	-2.179014E-006	-6.476119E-001	-7.688749E-001
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499	4	-1.379896E-006	-1.785084E-006	-4.866289E-001	-6.298829E-001
499	5	-1.613865E-006	-2.253505E-006	-5.694636E-001	-7.951759E-001
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500	1	-1.210924E-006	-1.814939E-006	-4.272951E-001	-6.404158E-001
500	2	-1.279698E-006	-1.780290E-006	-4.515552E-001	-6.281914E-001
500	3	-1.279668E-006	-1.732261E-006	-4.515365E-001	-6.112456E-001
500	4	-1.210984E-006	-1.762282E-006	-4.273174E-001	-6.218380E-001
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500	6	-1.279650E-006	-1.756295E-006	-4.515371E-001	-6.197153E-001
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500	8	-1.210960E-006	-1.788585E-006	-4.273001E-001	-6.311226E-001
500	9	-1.246895E-006	-1.771691E-006	-4.399876E-001	-6.251638E-001
501	1	-5.110068E-005	-2.628987E-004	-2.057879E-001	-1.058734E+000
501	2	-1.521500E-006	-5.675626E-006	-2.789538E-001	-1.040584E+000
501	3	-7.905742E-005	-2.625976E-004	-2.789598E-001	-9.265994E-001
501	4	-5.832099E-005	-2.664133E-004	-2.057875E-001	-9.400595E-001
501	5	-4.568678E-006	-1.972286E-005	-2.431069E-001	-1.049466E+000
501	6	-8.353285E-005	-2.945270E-004	-2.789600E-001	-9.835857E-001
501	7	-6.889626E-005	-2.644668E-004	-2.431078E-001	-9.331909E-001
501	8	-5.832219E-005	-2.832288E-004	-2.057887E-001	-9.993882E-001
501	9	-7.190664E-005	-2.932147E-004	-2.431078E-001	-9.913346E-001
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502	5	-2.232869E-005	-7.768645E-005	-2.431180E-001	-8.458595E-001
502	6	-5.818958E-005	-2.585696E-004	-2.053264E-001	-9.123859E-001
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503	2	-1.395914E-006	-2.353793E-006	-4.925613E-001	-8.305440E-001
503	3	-1.395911E-006	-3.027569E-006	-4.925562E-001	-1.068318E+000
503	4	-2.841793E-006	-2.855399E-006	-7.204559E-001	-1.087555E+000
503	5	-1.709266E-006	-2.250233E-006	-6.031274E-001	-7.940088E-001
503	6	-1.395914E-006	-2.690658E-006	-4.925549E-001	-9.494234E-001
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503	8	-2.841799E-006	-2.497832E-006	-7.204586E-001	-8.813804E-001
503	9	-1.709251E-006	-2.597123E-006	-6.031298E-001	-9.164140E-001
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504	5	-1.396822E-006	-1.832539E-006	-4.928762E-001	-6.466159E-001
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504	7	-1.396835E-006	-1.765815E-006	-4.928771E-001	-6.230814E-001
504	8	-1.354631E-006	-1.815534E-006	-4.779824E-001	-6.406207E-001
504	9	-1.396818E-006	-1.799152E-006	-4.928797E-001	-6.348378E-001
505	1	-9.096136E-007	-1.550806E-006	-3.209795E-001	-5.472151E-001
505	2	-1.019185E-006	-1.485693E-006	-3.596239E-001	-5.242362E-001
505	3	-1.019172E-006	-1.427979E-006	-3.596280E-001	-5.038763E-001
505	4	-9.096818E-007	-1.485657E-006	-3.209859E-001	-5.242244E-001
505	5	-9.677008E-007	-1.516267E-006	-3.414694E-001	-5.350294E-001
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505	8	-9.096967E-007	-1.518245E-006	-3.209841E-001	-5.357301E-001
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506	6	-1.191423E-006	-1.589802E-006	-4.203981E-001	-5.609665E-001
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507	1	-1.923366E-005	-6.202382E-005	-2.977898E-001	-9.600443E-001
507	2	-2.564203E-005	-8.354308E-005	-2.948763E-001	-9.607391E-001

507	3	-8.356716E-005	-2.733853E-004	-2.948778E-001	-9.646640E-001
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507	5	-1.905520E-005	-6.177150E-005	-2.962629E-001	-9.604004E-001
507	6	-8.792726E-005	-2.870638E-004	-2.948767E-001	-9.626979E-001
507	7	-8.396098E-005	-2.733113E-004	-2.962621E-001	-9.644045E-001
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508	3	-2.089552E-006	-1.559719E-006	-7.373109E-001	-5.583631E-001
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509	2	-2.029297E-005	-6.515865E-005	-2.985003E-001	-9.584513E-001
509	3	-8.459216E-005	-2.725936E-004	-2.984971E-001	-9.618672E-001
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511	5	-1.550188E-006	-1.806649E-006	-5.469983E-001	-6.374861E-001
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512	1	-7.935243E-007	-2.650962E-006	-2.799983E-001	-9.354056E-001
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512	3	-8.471475E-005	-2.572539E-004	-2.989224E-001	-9.077446E-001
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513	1	-1.003480E-006	-1.419803E-006	-3.540033E-001	-5.807066E-001
513	2	-1.103523E-006	-1.368183E-006	-3.893925E-001	-4.827739E-001
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513	5	-1.056584E-006	-1.392033E-006	-3.727982E-001	-4.911808E-001
513	6	-1.103531E-006	-1.341593E-006	-3.893973E-001	-4.733934E-001
513	7	-1.056537E-006	-1.335596E-006	-3.727951E-001	-4.712791E-001
513	8	-1.003465E-006	-1.388911E-006	-3.540668E-001	-4.900953E-001

513	9	-1.056535E-006	-1.363819E-006	-3.728081E-001	-4.812346E-001
514	1	-6.657325E-007	-1.276441E-006	-2.348921E-001	-4.503988E-001
514	2	-8.668747E-007	-1.158531E-006	-3.055964E-001	-4.087961E-001
514	3	-8.668745E-007	-1.069247E-006	-3.055947E-001	-3.772856E-001
514	4	-6.656796E-007	-1.175069E-006	-2.349060E-001	-4.146297E-001
514	5	-7.722065E-007	-1.213744E-006	-2.724885E-001	-4.282782E-001
514	6	-8.660680E-007	-1.113869E-006	-3.055947E-001	-3.938347E-001
514	7	-7.722065E-007	-1.118785E-006	-2.724885E-001	-3.947771E-001
514	8	-6.656426E-007	-1.225712E-006	-2.348838E-001	-4.325186E-001
514	9	-7.722065E-007	-1.166274E-006	-2.724885E-001	-4.115278E-001
515	1	-1.237145E-006	-1.540530E-006	-4.365424E-001	-5.435748E-001
515	2	-1.273851E-006	-1.524885E-006	-4.494985E-001	-5.380687E-001
515	3	-1.273856E-006	-1.502277E-006	-4.494904E-001	-5.300921E-001
515	4	-1.237210E-006	-1.515382E-006	-4.365375E-001	-5.347192E-001
515	5	-1.256510E-006	-1.532305E-006	-4.433602E-001	-5.406774E-001
515	6	-1.273869E-006	-1.513579E-006	-4.494867E-001	-5.340829E-001
515	7	-1.256490E-006	-1.508515E-006	-4.433647E-001	-5.322063E-001
515	8	-1.237163E-006	-1.527973E-006	-4.365233E-001	-5.391471E-001
515	9	-1.256497E-006	-1.520384E-006	-4.433579E-001	-5.364779E-001
516	1	-1.360533E-006	-1.798656E-006	-4.800810E-001	-6.346626E-001
516	2	-8.541863E-007	-1.924549E-006	-3.013981E-001	-6.790856E-001
516	3	-8.541741E-005	-2.497688E-004	-3.014008E-001	-8.813303E-001
516	4	-1.360539E-004	-2.406242E-004	-4.800834E-001	-8.490545E-001
516	5	-1.099975E-006	-1.863422E-006	-3.881349E-001	-6.575206E-001
516	6	-8.541605E-005	-2.211106E-004	-3.014019E-001	-7.802095E-001
516	7	-1.099978E-004	-2.453281E-004	-3.881349E-001	-8.656641E-001
516	8	-3.734884E-005	-5.771444E-005	-4.800784E-001	-7.418637E-001
516	9	-1.162432E-004	-2.280918E-004	-3.881349E-001	-7.615945E-001
517	1	-1.494847E-006	-1.747611E-006	-4.957021E-001	-6.166627E-001
517	2	-1.450773E-006	-1.732160E-006	-5.119126E-001	-6.111968E-001
517	3	-1.450766E-006	-1.696006E-006	-5.119131E-001	-5.984586E-001
517	4	-1.494880E-006	-1.708374E-006	-4.956975E-001	-6.028119E-001
517	5	-1.428735E-006	-1.739566E-006	-5.041492E-001	-6.138267E-001
517	6	-1.450795E-006	-1.714112E-006	-5.119308E-001	-6.048345E-001
517	7	-1.428778E-006	-1.701971E-006	-5.041426E-001	-6.005523E-001
517	8	-1.494880E-006	-1.728008E-006	-4.956975E-001	-6.097361E-001
517	9	-1.428735E-006	-1.720757E-006	-5.041459E-001	-6.071838E-001
518	1	-9.168326E-007	-3.174775E-006	-3.235224E-001	-1.120238E+000
518	2	-1.376829E-006	-3.060705E-006	-4.858186E-001	-1.079990E+000
518	3	-1.376807E-004	-2.580864E-004	-4.858235E-001	-9.186799E-001
518	4	-9.168763E-005	-2.665534E-004	-3.235252E-001	-9.405523E-001
518	5	-1.153697E-006	-3.116060E-006	-4.870906E-001	-1.099518E+000
518	6	-3.779531E-005	-7.743336E-005	-4.858208E-001	-9.953346E-001
518	7	-1.153712E-004	-2.621890E-004	-4.870870E-001	-9.251674E-001
518	8	-2.040057E-006	-6.497450E-006	-3.235276E-001	-1.030401E+000
518	9	-2.341492E-005	-5.822855E-005	-4.070896E-001	-1.012344E+000
519	1	-8.269078E-007	-1.066004E-006	-2.918074E-001	-3.761508E-001
519	2	-9.691386E-007	-9.935687E-007	-3.419702E-001	-3.505925E-001
519	3	-9.690795E-007	-9.307560E-007	-3.419664E-001	-3.284372E-001
519	4	-8.270404E-007	-9.935666E-007	-2.918089E-001	-3.505842E-001
519	5	-9.831196E-007	-1.027186E-006	-3.186695E-001	-3.624604E-001
519	6	-9.690878E-007	-9.621705E-007	-3.419704E-001	-3.395147E-001
519	7	-9.831196E-007	-9.599312E-007	-3.186695E-001	-3.387186E-001
519	8	-8.270032E-007	-1.029880E-006	-2.917992E-001	-3.633763E-001
519	9	-9.831196E-007	-9.935573E-007	-3.186695E-001	-3.505874E-001
520	1	-5.497879E-004	-2.257709E-004	-1.940061E-001	-7.966750E-001
520	2	-3.175155E-004	-2.255876E-004	-1.120382E-001	-7.957484E-001
520	3	-3.175161E-004	-2.543981E-004	-1.120387E-001	-8.976955E-001
520	4	-5.497873E-004	-2.547069E-004	-1.940062E-001	-8.987920E-001
521	1	-3.570440E-005	-6.866151E-004	-1.197982E-001	-2.303788E+000

521	2	-5.557221E-007	-6.525761E-006	-1.960807E-001	-2.302662E+000
521	3	-5.557082E-007	-6.173230E-006	-1.960875E-001	-2.178279E+000
521	4	-3.395065E-005	-6.177001E-004	-1.197999E-001	-2.179607E+000
522	1	-4.722083E-002	-4.456552E-003	-1.666568E-001	-1.572595E-001
522	2	-4.680533E-002	-4.456510E-003	-1.651577E-001	-1.572587E-001
522	3	-4.680495E-002	-4.486525E-003	-1.651507E-001	-1.583158E-001
522	4	-4.722636E-002	-4.486547E-003	-1.666532E-001	-1.583151E-001
523	1	-4.828196E-002	-5.258323E-003	-1.703742E-001	-1.855503E-001
523	2	-4.762315E-002	-5.258281E-003	-1.680488E-001	-1.855496E-001
523	3	-4.762343E-002	-5.304938E-003	-1.680512E-001	-1.871968E-001
523	4	-4.828205E-002	-5.304963E-003	-1.703771E-001	-1.871982E-001
524	1	-4.988578E-002	-5.936316E-003	-1.760309E-001	-2.094736E-001
524	2	-4.888856E-002	-5.936294E-003	-1.725159E-001	-2.094729E-001
524	3	-4.888901E-002	-6.006746E-003	-1.725157E-001	-2.119621E-001
524	4	-4.988640E-002	-6.006715E-003	-1.760357E-001	-2.119617E-001
525	1	-5.227863E-002	-6.444721E-003	-1.844727E-001	-2.274144E-001
525	2	-5.079441E-002	-6.444658E-003	-1.792411E-001	-2.274156E-001
525	3	-5.079442E-002	-6.549601E-003	-1.792376E-001	-2.311160E-001
525	4	-5.227733E-002	-6.549575E-003	-1.844738E-001	-2.311177E-001
526	1	-5.574827E-002	-6.702874E-003	-1.967258E-001	-2.365265E-001
526	2	-5.360588E-002	-6.702913E-003	-1.891605E-001	-2.365258E-001
526	3	-5.360577E-002	-6.854509E-003	-1.891614E-001	-2.418728E-001
526	4	-5.575076E-002	-6.854488E-003	-1.967231E-001	-2.418727E-001
527	1	-6.071828E-002	-6.527680E-003	-2.142524E-001	-2.303415E-001
527	2	-5.765554E-002	-6.527676E-003	-2.034528E-001	-2.303409E-001
527	3	-5.765571E-002	-6.744465E-003	-2.034511E-001	-2.379929E-001
527	4	-6.071702E-002	-6.744448E-003	-2.142576E-001	-2.379930E-001
528	1	-6.507549E-002	-5.969018E-003	-2.296339E-001	-2.106288E-001
528	2	-6.278462E-002	-5.968999E-003	-2.212664E-001	-2.106282E-001
528	3	-6.278501E-002	-6.136553E-003	-2.212667E-001	-2.165396E-001
528	4	-6.507371E-002	-6.136421E-003	-2.296357E-001	-2.165380E-001
529	1	-5.629016E-002	-6.130079E-003	-1.986292E-001	-2.163152E-001
529	2	-6.335530E-002	-6.130159E-003	-2.235645E-001	-2.163146E-001
529	3	-6.335724E-002	-5.630974E-003	-2.235640E-001	-1.986986E-001
529	4	-5.628958E-002	-5.630965E-003	-1.986295E-001	-1.986989E-001
530	1	-2.925022E-002	-6.254091E-003	-1.832198E-001	-2.206884E-001
530	2	-4.715303E-002	-6.254089E-003	-1.663882E-001	-2.206878E-001
530	3	-4.715318E-002	-4.986818E-003	-1.663858E-001	-1.759686E-001
530	4	-2.925170E-002	-4.986752E-003	-1.832220E-001	-1.759672E-001
531	1	-1.849423E-002	-3.565503E-003	-3.703482E-002	-1.258221E-001
531	2	-1.942918E-002	-3.565604E-003	-6.856079E-002	-1.258215E-001
531	3	-1.942916E-002	-2.934382E-003	-6.855865E-002	-1.035479E-001
531	4	-1.849509E-002	-2.934378E-003	-3.702943E-002	-1.035466E-001
532	1	-4.692463E-003	-1.732757E-003	-1.655736E-002	-6.114652E-002
532	2	-6.546107E-003	-1.732799E-003	-2.309931E-002	-6.114596E-002
532	3	-6.546555E-003	-1.601777E-003	-2.310059E-002	-5.652422E-002
532	4	-4.692560E-003	-1.601774E-003	-1.656156E-002	-5.652401E-002
533	1	-3.987546E-003	-7.400480E-004	-1.379051E-002	-2.611586E-002
533	2	-3.985136E-003	-7.400700E-004	-1.406327E-002	-2.611531E-002
533	3	-3.984961E-003	-7.346331E-004	-1.406041E-002	-2.592224E-002
533	4	-3.986894E-003	-7.345703E-004	-1.379071E-002	-2.592284E-002
534	1	-1.916917E-004	-1.994307E-004	-6.764477E-002	-7.037335E-001
534	2	-7.977284E-005	-1.994317E-004	-2.814932E-002	-7.037330E-001
534	3	-7.978064E-005	-2.073562E-004	-2.815008E-002	-7.316984E-001
534	4	-1.916975E-004	-2.073562E-004	-6.764165E-002	-7.316976E-001
535	1	-1.370898E-006	-1.642770E-006	-4.837307E-001	-5.796685E-001
535	2	-1.394360E-006	-1.635043E-006	-4.920058E-001	-5.769330E-001
535	3	-1.394348E-006	-1.618558E-006	-4.920135E-001	-5.711201E-001
535	4	-1.370874E-006	-1.624910E-006	-4.837311E-001	-5.733658E-001
535	5	-1.383104E-006	-1.630781E-006	-4.880473E-001	-5.702496E-001

535	6	-1.394367E-006	-1.626798E-006	-4.920164E-001	-5.740317E-001
535	7	-1.383104E-006	-1.621608E-006	-4.880473E-001	-5.721914E-001
535	8	-1.370953E-006	-1.633842E-006	-4.837333E-001	-5.765147E-001
535	9	-1.383104E-006	-1.630171E-006	-4.880473E-001	-5.752220E-001
536	1	-4.584403E-002	-5.298203E-004	-1.617668E-001	-1.869516E-002
536	2	-4.582984E-002	-5.298411E-004	-1.617211E-001	-1.869596E-002
536	3	-4.582987E-002	-5.307370E-004	-1.617206E-001	-1.872727E-002
536	4	-4.584413E-002	-5.307469E-004	-1.617700E-001	-1.872759E-002
537	1	-4.593489E-002	-1.577145E-003	-1.620904E-001	-5.565202E-002
537	2	-4.587201E-002	-1.577166E-003	-1.618655E-001	-5.565315E-002
537	3	-4.587198E-002	-1.581644E-003	-1.618658E-001	-5.580967E-002
537	4	-4.593447E-002	-1.581653E-003	-1.620925E-001	-5.580997E-002
538	1	-4.615546E-002	-2.593608E-003	-1.628638E-001	-9.152085E-002
538	2	-4.601160E-002	-2.593618E-003	-1.623578E-001	-9.152167E-002
538	3	-4.601139E-002	-2.603726E-003	-1.623578E-001	-9.187687E-002
538	4	-4.615546E-002	-2.603752E-003	-1.628676E-001	-9.187715E-002
539	1	-4.655568E-002	-3.560052E-003	-1.642834E-001	-1.256247E-001
539	2	-4.630059E-002	-3.560027E-003	-1.633790E-001	-1.256241E-001
539	3	-4.629968E-002	-3.578174E-003	-1.633791E-001	-1.262635E-001
539	4	-4.655513E-002	-3.578203E-003	-1.642823E-001	-1.262634E-001
540	1	-5.126599E-007	-6.128826E-007	-1.809024E-001	-2.162594E-001
540	2	-6.191241E-007	-5.494907E-007	-2.184670E-001	-1.938839E-001
540	3	-6.191950E-007	-5.110078E-007	-2.184967E-001	-1.803095E-001
540	4	-5.126250E-007	-5.671670E-007	-1.808801E-001	-2.001170E-001
540	5	-5.705032E-007	-5.784265E-007	-2.013082E-001	-2.041043E-001
540	6	-6.192664E-007	-5.301898E-007	-2.184955E-001	-1.870933E-001
540	7	-5.705452E-007	-5.366431E-007	-2.013109E-001	-1.893609E-001
540	8	-5.126902E-007	-5.980072E-007	-1.809010E-001	-2.081882E-001
540	9	-5.705335E-007	-5.575336E-007	-2.012916E-001	-1.967231E-001
541	1	-4.109217E-005	-2.821507E-004	-1.449941E-001	-9.955962E-001
541	2	-2.788926E-005	-2.842723E-004	-9.848747E-002	-1.003079E+000
541	3	-2.788975E-005	-3.060471E-004	-9.848976E-002	-1.079989E+000
541	4	-4.109199E-005	-3.048204E-004	-1.450014E-001	-1.075583E+000
541	5	-3.435653E-005	-2.832314E-004	-1.212322E-001	-9.994042E-001
541	6	-2.788904E-005	-2.951589E-004	-9.840696E-002	-1.041496E+000
541	7	-3.435653E-005	-3.054460E-004	-1.212322E-001	-1.077792E+000
541	8	-4.109279E-005	-2.934042E-004	-1.450007E-001	-1.035585E+000
541	9	-3.435653E-005	-2.943390E-004	-1.212322E-001	-1.038597E+000
542	1	-1.139648E-006	-1.284657E-006	-4.021413E-001	-4.533178E-001
542	2	-1.220751E-006	-1.250630E-006	-4.307564E-001	-4.413000E-001
542	3	-1.220766E-006	-1.207533E-006	-4.307457E-001	-4.260902E-001
542	4	-1.139667E-006	-1.236406E-006	-4.021318E-001	-4.362634E-001
542	5	-1.182466E-006	-1.266691E-006	-4.172454E-001	-4.469739E-001
542	6	-1.220770E-006	-1.229092E-006	-4.307569E-001	-4.336962E-001
542	7	-1.182473E-006	-1.221132E-006	-4.172411E-001	-4.308853E-001
542	8	-1.139585E-006	-1.260559E-006	-4.021275E-001	-4.447936E-001
542	9	-1.182496E-006	-1.243923E-006	-4.172547E-001	-4.389241E-001
543	1	-1.199170E-006	-1.781717E-006	-4.231377E-001	-6.286957E-001
543	2	-8.872098E-007	-1.859293E-006	-3.130597E-001	-6.560626E-001
543	3	-8.872168E-005	-2.159136E-004	-3.130630E-001	-7.618734E-001
543	4	-3.108836E-005	-5.451413E-005	-4.231377E-001	-7.419072E-001
543	5	-1.037872E-006	-1.821029E-006	-3.662147E-001	-6.428452E-001
543	6	-1.341389E-006	-3.037739E-006	-3.130609E-001	-7.089655E-001
543	7	-1.847023E-004	-2.150757E-004	-3.662147E-001	-7.522679E-001
543	8	-1.199202E-006	-1.942242E-006	-4.231446E-001	-6.853319E-001
543	9	-1.037872E-006	-1.976869E-006	-3.662147E-001	-6.975502E-001
544	1	-6.401701E-005	-2.640582E-004	-2.258919E-001	-9.345785E-001
544	2	-4.565037E-005	-2.678898E-004	-1.618797E-001	-9.452673E-001
544	3	-4.564921E-005	-2.964244E-004	-1.618020E-001	-1.045958E+000
544	4	-6.401866E-005	-2.946388E-004	-2.258928E-001	-1.039652E+000

544	5	-5.463731E-005	-2.664051E-004	-1.927964E-001	-9.400367E-001
544	6	-4.564918E-005	-2.821578E-004	-1.610762E-001	-9.956118E-001
544	7	-5.463720E-005	-2.955523E-004	-1.927939E-001	-1.042881E+000
544	8	-6.401945E-005	-2.797473E-004	-2.259000E-001	-9.871198E-001
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599	2	-1.305584E-004	-2.443476E-004	-4.606908E-001	-8.622062E-001
599	3	-1.305585E-004	-2.472808E-004	-4.606884E-001	-8.725463E-001
599	4	-1.333642E-004	-2.472517E-004	-4.705873E-001	-8.724520E-001
599	5	-1.319236E-004	-2.442476E-004	-4.654965E-001	-8.618478E-001
599	6	-1.305587E-004	-2.458109E-004	-4.606872E-001	-8.673707E-001
599	7	-1.319216E-004	-2.472645E-004	-4.654953E-001	-8.724926E-001
599	8	-1.333635E-004	-2.456981E-004	-4.705968E-001	-8.669652E-001
599	9	-1.319212E-004	-2.457576E-004	-4.654959E-001	-8.671751E-001
600	1	-1.333491E-004	-2.295872E-004	-4.705257E-001	-8.101228E-001
600	2	-1.337497E-004	-2.295580E-004	-4.719480E-001	-8.100079E-001
600	3	-1.337500E-004	-2.291712E-004	-4.719494E-001	-8.086553E-001
600	4	-1.333520E-004	-2.291740E-004	-4.705283E-001	-8.086639E-001
600	5	-1.335550E-004	-2.295703E-004	-4.712607E-001	-8.100612E-001
600	6	-1.337491E-004	-2.293642E-004	-4.719487E-001	-8.093272E-001
600	7	-1.335550E-004	-2.291767E-004	-4.712607E-001	-8.086673E-001
600	8	-1.333511E-004	-2.293817E-004	-4.705262E-001	-8.093937E-001
600	9	-1.335550E-004	-2.293731E-004	-4.712607E-001	-8.093598E-001
601	1	-1.384863E-004	-2.065207E-004	-4.886626E-001	-7.287213E-001
601	2	-1.338992E-004	-2.068745E-004	-4.724674E-001	-7.299736E-001
601	3	-1.338994E-004	-2.108605E-004	-4.724689E-001	-7.440363E-001
601	4	-1.384848E-004	-2.108157E-004	-4.886551E-001	-7.438794E-001
601	5	-1.361891E-004	-2.067038E-004	-4.802637E-001	-7.293614E-001
601	6	-1.338995E-004	-2.088682E-004	-4.724684E-001	-7.370065E-001

601	7	-1.361891E-004	-2.108383E-004	-4.802637E-001	-7.439556E-001
601	8	-1.384874E-004	-2.086678E-004	-4.886783E-001	-7.362959E-001
601	9	-1.361891E-004	-2.087711E-004	-4.802637E-001	-7.366644E-001
602	1	-1.466743E-004	-2.069964E-004	-4.917898E-001	-6.939415E-001
602	2	-1.392304E-004	-1.966710E-004	-4.912912E-001	-6.939697E-001
602	3	-1.392281E-004	-1.967646E-004	-4.912880E-001	-6.943109E-001
602	4	-1.393471E-004	-1.967641E-004	-4.917898E-001	-6.942988E-001
602	5	-1.392908E-004	-1.966672E-004	-4.914921E-001	-6.939600E-001
602	6	-1.392270E-004	-1.967185E-004	-4.912805E-001	-6.941393E-001
602	7	-1.392903E-004	-1.967636E-004	-4.914907E-001	-6.943015E-001
602	8	-1.393508E-004	-1.967129E-004	-4.917898E-001	-6.941215E-001
602	9	-1.392894E-004	-1.967165E-004	-4.914940E-001	-6.941293E-001
603	1	-1.119786E-006	-1.913264E-006	-3.951348E-001	-6.751109E-001
603	2	-2.165400E-006	-3.012032E-006	-4.805813E-001	-6.684870E-001
603	3	-1.361982E-004	-1.725158E-004	-4.805922E-001	-6.887310E-001
603	4	-5.901334E-005	-9.103792E-005	-3.951295E-001	-6.895763E-001
603	5	-1.246510E-006	-1.903436E-006	-4.398302E-001	-6.716465E-001
603	6	-1.362016E-004	-1.808824E-004	-4.805929E-001	-6.886888E-001
603	7	-1.246493E-004	-1.726261E-004	-4.398302E-001	-6.831327E-001
603	8	-1.119797E-006	-1.820422E-006	-3.951183E-001	-6.423427E-001
603	9	-1.861353E-004	-1.545296E-004	-4.398302E-001	-6.403911E-001
604	1	-2.316856E-006	-1.195113E-006	-8.175215E-001	-4.217815E-001
604	2	-1.222008E-006	-1.280489E-006	-4.311968E-001	-4.517980E-001
604	3	-1.221979E-006	-1.953494E-006	-4.311892E-001	-6.893008E-001
604	4	-2.316042E-006	-1.942653E-006	-8.175241E-001	-6.854818E-001
604	5	-1.740605E-006	-1.240009E-006	-6.142315E-001	-4.375440E-001
604	6	-1.222023E-006	-1.616940E-006	-4.311846E-001	-5.705481E-001
604	7	-1.740739E-006	-1.948340E-006	-6.142356E-001	-6.874915E-001
604	8	-2.316863E-006	-1.568884E-006	-8.175291E-001	-5.535910E-001
604	9	-1.740727E-006	-1.594149E-006	-6.142253E-001	-5.625111E-001
605	1	-1.642230E-006	-8.096975E-007	-5.794992E-001	-2.857027E-001
605	2	-2.399889E-006	-7.539107E-007	-8.468244E-001	-2.660283E-001
605	3	-2.399894E-006	-3.514120E-007	-8.468318E-001	-1.240000E-001
605	4	-1.642234E-006	-3.585010E-007	-5.794852E-001	-1.264946E-001
605	5	-2.042706E-006	-7.802307E-007	-7.207670E-001	-2.753128E-001
605	6	-2.399891E-006	-5.526742E-007	-8.468286E-001	-1.950152E-001
605	7	-2.042726E-006	-3.547650E-007	-7.207645E-001	-1.251744E-001
605	8	-1.642299E-006	-5.841023E-007	-5.794998E-001	-2.061023E-001
605	9	-2.042646E-006	-5.674825E-007	-7.207734E-001	-2.002452E-001
606	1	-1.698673E-006	-5.408311E-007	-5.965785E-001	-1.908604E-001
606	2	-1.535620E-006	-5.529196E-007	-5.418779E-001	-1.951063E-001
606	3	-1.535677E-006	-6.214358E-007	-5.418774E-001	-2.192813E-001
606	4	-1.698739E-006	-6.199180E-007	-5.965933E-001	-2.187416E-001
606	5	-1.607696E-006	-5.473452E-007	-5.672894E-001	-1.931319E-001
606	6	-1.535623E-006	-5.871863E-007	-5.418767E-001	-2.071937E-001
606	7	-1.607696E-006	-6.207289E-007	-5.672894E-001	-2.190292E-001
606	8	-1.698701E-006	-5.804116E-007	-5.965707E-001	-2.048007E-001
606	9	-1.607696E-006	-5.840417E-007	-5.672894E-001	-2.060818E-001
607	1	-1.686243E-006	-2.252461E-007	-5.949888E-001	-7.946939E-002
607	2	-1.713949E-006	-2.230685E-007	-6.047764E-001	-7.871061E-002
607	3	-1.713948E-006	-2.138774E-007	-6.047806E-001	-7.517864E-002
607	4	-1.686181E-006	-2.134578E-007	-5.949818E-001	-7.531898E-002
607	5	-1.701165E-006	-2.240756E-007	-6.002840E-001	-7.906321E-002
607	6	-1.714024E-006	-2.180904E-007	-6.047985E-001	-7.694414E-002
607	7	-1.701195E-006	-2.132194E-007	-6.002943E-001	-7.524034E-002
607	8	-1.686178E-006	-2.193342E-007	-5.949885E-001	-7.739085E-002
607	9	-1.701212E-006	-2.186417E-007	-6.002739E-001	-7.715368E-002
608	1	-1.783090E-006	-2.807262E-007	-6.291581E-001	-7.882161E-002
608	2	-1.952321E-006	-2.816536E-007	-6.889047E-001	-7.115862E-002
608	3	-1.952329E-006	-1.412954E-007	-6.888726E-001	-4.985123E-002

608	4	-1.783013E-006	-1.281587E-007	-6.291395E-001	-4.521799E-002
608	5	-1.875425E-006	-2.012174E-007	-6.617665E-001	-7.100435E-002
608	6	-1.952352E-006	-1.714509E-007	-6.889033E-001	-6.050471E-002
608	7	-1.875454E-006	-1.353169E-007	-6.617607E-001	-4.774445E-002
608	8	-1.782979E-006	-1.644393E-007	-6.291361E-001	-5.802879E-002
608	9	-1.875415E-006	-1.682603E-007	-6.617420E-001	-5.937484E-002
609	1	-1.921700E-006	-6.535294E-007	-6.780581E-001	-2.306099E-001
609	2	-1.623082E-006	-6.507820E-007	-5.727255E-001	-2.296339E-001
609	3	-1.623079E-006	-7.839727E-007	-5.727375E-001	-2.766281E-001
609	4	-1.921650E-006	-8.058404E-007	-6.780858E-001	-2.843538E-001
609	5	-1.762447E-006	-6.520831E-007	-6.218754E-001	-2.300916E-001
609	6	-1.623135E-006	-7.173724E-007	-5.727389E-001	-2.531318E-001
609	7	-1.762447E-006	-7.941622E-007	-6.218754E-001	-2.802335E-001
609	8	-1.921660E-006	-7.297866E-007	-6.780757E-001	-2.574807E-001
609	9	-1.762447E-006	-7.231263E-007	-6.218754E-001	-2.551614E-001
610	1	-1.549249E-006	-3.119390E-007	-5.466646E-001	-1.100648E-001
610	2	-1.329092E-006	-3.098762E-007	-4.689808E-001	-1.093375E-001
610	3	-1.329130E-006	-4.268558E-007	-4.689863E-001	-1.506091E-001
610	4	-1.549291E-006	-4.430008E-007	-5.466681E-001	-1.563321E-001
610	5	-1.432898E-006	-3.108298E-007	-5.056058E-001	-1.096823E-001
610	6	-1.329129E-006	-3.683631E-007	-4.689807E-001	-1.299781E-001
610	7	-1.432889E-006	-4.345055E-007	-5.056098E-001	-1.533120E-001
610	8	-1.549212E-006	-3.774985E-007	-5.466651E-001	-1.332017E-001
610	9	-1.432894E-006	-3.726626E-007	-5.056105E-001	-1.314947E-001
611	1	-1.337950E-006	-2.829038E-006	-4.721046E-001	-7.159650E-001
611	2	-2.090016E-005	-2.715993E-005	-5.515624E-001	-7.167610E-001
611	3	-1.563163E-004	-1.892815E-004	-5.515710E-001	-6.679009E-001
611	4	-1.337960E-006	-1.875235E-006	-4.721058E-001	-6.617029E-001
611	5	-1.456489E-006	-2.830227E-006	-5.139264E-001	-7.163830E-001
611	6	-1.563166E-004	-1.962847E-004	-5.515821E-001	-6.923226E-001
611	7	-1.456457E-004	-1.884518E-004	-5.139318E-001	-6.649626E-001
611	8	-1.337955E-006	-1.952184E-006	-4.720989E-001	-6.888403E-001
611	9	-2.896018E-006	-3.892035E-006	-5.139208E-001	-6.906729E-001
612	1	-1.626816E-004	-1.767572E-004	-5.559750E-001	-6.040763E-001
612	2	-1.472622E-004	-1.711016E-004	-5.196383E-001	-6.037401E-001
612	3	-1.472664E-004	-1.782947E-004	-5.196483E-001	-6.291284E-001
612	4	-1.575661E-004	-1.790505E-004	-5.559855E-001	-6.317995E-001
612	5	-1.521914E-004	-1.711451E-004	-5.370135E-001	-6.039804E-001
612	6	-1.472630E-004	-1.746993E-004	-5.196373E-001	-6.164359E-001
612	7	-1.521914E-004	-1.786540E-004	-5.370135E-001	-6.303991E-001
612	8	-1.575670E-004	-1.751223E-004	-5.568017E-001	-6.179342E-001
612	9	-1.521914E-004	-1.749008E-004	-5.370135E-001	-6.171529E-001
613	1	-1.465862E-004	-1.962185E-004	-5.172454E-001	-6.923777E-001
613	2	-1.507949E-004	-1.962429E-004	-5.320878E-001	-6.924619E-001
613	3	-1.507895E-004	-1.929380E-004	-5.320788E-001	-6.807923E-001
613	4	-1.465883E-004	-1.926131E-004	-5.172433E-001	-6.796492E-001
613	5	-1.487815E-004	-1.962291E-004	-5.249910E-001	-6.924151E-001
613	6	-1.507928E-004	-1.945908E-004	-5.320814E-001	-6.866271E-001
613	7	-1.487814E-004	-1.927823E-004	-5.249882E-001	-6.802481E-001
613	8	-1.465876E-004	-1.944154E-004	-5.172481E-001	-6.860119E-001
613	9	-1.487788E-004	-1.945878E-004	-5.249884E-001	-6.863315E-001
614	1	-1.514862E-004	-2.113237E-004	-5.345250E-001	-7.456696E-001
614	2	-1.523606E-004	-2.113297E-004	-5.376098E-001	-7.456951E-001
614	3	-1.523603E-004	-2.105647E-004	-5.376110E-001	-7.430027E-001
614	4	-1.514843E-004	-2.105016E-004	-5.345316E-001	-7.427775E-001
614	5	-1.519371E-004	-2.113241E-004	-5.361227E-001	-7.456823E-001
614	6	-1.523539E-004	-2.109491E-004	-5.376030E-001	-7.443510E-001
614	7	-1.519371E-004	-2.105365E-004	-5.361227E-001	-7.428966E-001
614	8	-1.514853E-004	-2.109145E-004	-5.345244E-001	-7.442261E-001
614	9	-1.519371E-004	-2.109314E-004	-5.361227E-001	-7.442898E-001

615	1	-1.524468E-004	-2.291441E-004	-5.379300E-001	-8.085437E-001
615	2	-1.522569E-004	-2.291425E-004	-5.372499E-001	-8.085454E-001
615	3	-1.522571E-004	-2.293244E-004	-5.372517E-001	-8.091958E-001
615	4	-1.524472E-004	-2.293398E-004	-5.379189E-001	-8.092464E-001
615	5	-1.523504E-004	-2.291429E-004	-5.375738E-001	-8.085448E-001
615	6	-1.522562E-004	-2.292321E-004	-5.372512E-001	-8.088651E-001
615	7	-1.523504E-004	-2.293389E-004	-5.375738E-001	-8.092119E-001
615	8	-1.524461E-004	-2.292407E-004	-5.379237E-001	-8.088948E-001
615	9	-1.523504E-004	-2.292363E-004	-5.375738E-001	-8.088772E-001
616	1	-1.519945E-004	-2.479519E-004	-5.363259E-001	-8.749162E-001
616	2	-1.504593E-004	-2.479353E-004	-5.305863E-001	-8.748575E-001
616	3	-1.504604E-004	-2.495355E-004	-5.309104E-001	-8.805112E-001
616	4	-1.519912E-004	-2.496478E-004	-5.363169E-001	-8.809027E-001
616	5	-1.512871E-004	-2.479414E-004	-5.335406E-001	-8.748772E-001
616	6	-1.504591E-004	-2.487374E-004	-5.309079E-001	-8.776894E-001
616	7	-1.512837E-004	-2.495899E-004	-5.335371E-001	-8.806990E-001
616	8	-1.519938E-004	-2.487995E-004	-5.363245E-001	-8.779899E-001
616	9	-1.512849E-004	-2.487664E-004	-5.335370E-001	-8.777977E-001
617	1	-1.496233E-004	-2.658172E-004	-5.279568E-001	-9.379616E-001
617	2	-1.455931E-004	-2.657795E-004	-5.137367E-001	-9.378179E-001
617	3	-1.455945E-004	-2.703404E-004	-5.137389E-001	-9.539161E-001
617	4	-1.496259E-004	-2.706548E-004	-5.279586E-001	-9.550257E-001
617	5	-1.475505E-004	-2.658007E-004	-5.206489E-001	-9.378989E-001
617	6	-1.455934E-004	-2.680614E-004	-5.137408E-001	-9.458709E-001
617	7	-1.475505E-004	-2.704931E-004	-5.206489E-001	-9.544635E-001
617	8	-1.496259E-004	-2.682375E-004	-5.279676E-001	-9.464988E-001
617	9	-1.475505E-004	-2.681464E-004	-5.206489E-001	-9.461757E-001
618	1	-1.920921E-006	-1.268597E-007	-6.777989E-001	-4.475981E-002
618	2	-1.967128E-006	-1.313433E-007	-6.941864E-001	-4.634520E-002
618	3	-1.967217E-006	-1.146207E-007	-6.941391E-001	-4.044193E-002
618	4	-1.920918E-006	-1.071462E-007	-6.778027E-001	-3.781189E-002
618	5	-1.945863E-006	-1.292638E-007	-6.866103E-001	-4.562072E-002
618	6	-1.967086E-006	-1.229978E-007	-6.941164E-001	-4.339716E-002
618	7	-1.945898E-006	-1.112200E-007	-6.866369E-001	-3.923758E-002
618	8	-1.920920E-006	-1.170088E-007	-6.778237E-001	-4.129842E-002
618	9	-1.945876E-006	-1.202457E-007	-6.866146E-001	-4.243217E-002
619	1	-1.439422E-004	-2.830250E-004	-5.079243E-001	-9.986736E-001
619	2	-1.368299E-004	-2.829899E-004	-4.828135E-001	-9.985490E-001
619	3	-1.368296E-004	-2.916218E-004	-4.828176E-001	-1.029012E+000
619	4	-1.439429E-004	-2.921396E-004	-5.079132E-001	-1.030830E+000
619	5	-1.402898E-004	-2.830065E-004	-4.950222E-001	-9.986164E-001
619	6	-1.368293E-004	-2.873842E-004	-4.828164E-001	-1.013777E+000
619	7	-1.402892E-004	-2.918736E-004	-4.950284E-001	-1.029980E+000
619	8	-1.439444E-004	-2.875804E-004	-5.079226E-001	-1.014755E+000
619	9	-1.402903E-004	-2.874392E-004	-4.950272E-001	-1.014256E+000
620	1	-1.342560E-004	-2.992561E-004	-4.737374E-001	-1.055945E+000
620	2	-1.238324E-004	-2.991591E-004	-4.369576E-001	-1.055610E+000
620	3	-1.238348E-004	-3.127810E-004	-4.369602E-001	-1.103676E+000
620	4	-1.342561E-004	-3.135484E-004	-4.737389E-001	-1.106384E+000
620	5	-1.289202E-004	-2.992047E-004	-4.549006E-001	-1.055774E+000
620	6	-1.238339E-004	-3.059694E-004	-4.369595E-001	-1.079645E+000
620	7	-1.289202E-004	-3.131564E-004	-4.549006E-001	-1.104993E+000
620	8	-1.342560E-004	-3.064031E-004	-4.737333E-001	-1.081167E+000
620	9	-1.289202E-004	-3.061814E-004	-4.549006E-001	-1.080388E+000
621	1	-1.202801E-004	-3.134628E-004	-4.241316E-001	-1.106077E+000
621	2	-1.058831E-004	-3.133213E-004	-3.736235E-001	-1.105575E+000
621	3	-1.058848E-004	-3.331270E-004	-3.736246E-001	-1.175453E+000
621	4	-1.202815E-004	-3.342347E-004	-4.241372E-001	-1.179383E+000
621	5	-1.128721E-004	-3.133913E-004	-3.982795E-001	-1.105815E+000
621	6	-1.058848E-004	-3.232230E-004	-3.736196E-001	-1.140516E+000

621	7	-1.128720E-004	-3.336685E-004	-3.982772E-001	-1.177372E+000
621	8	-1.201989E-004	-3.238494E-004	-4.241287E-001	-1.142729E+000
621	9	-1.120712E-004	-3.235290E-004	-3.982803E-001	-1.141597E+000
622	1	-2.101740E-006	-7.871315E-007	-7.415934E-001	-2.777459E-001
622	2	-2.853147E-006	-8.565456E-007	-1.006739E+000	-3.022426E-001
622	3	-2.853150E-006	-5.244646E-007	-1.006753E+000	-1.858636E-001
622	4	-2.101691E-006	-4.042216E-007	-7.415987E-001	-1.426267E-001
622	5	-2.504136E-006	-8.243177E-007	-8.836102E-001	-2.908671E-001
622	6	-2.853156E-006	-6.905127E-007	-1.006754E+000	-2.436489E-001
622	7	-2.504136E-006	-4.686258E-007	-8.836102E-001	-1.653572E-001
622	8	-2.101672E-006	-5.956633E-007	-7.416036E-001	-2.101853E-001
622	9	-2.504136E-006	-6.464658E-007	-8.836102E-001	-2.281084E-001
623	1	-1.011167E-004	-3.248683E-004	-3.567967E-001	-1.146318E+000
623	2	-8.280958E-005	-3.246939E-004	-2.922043E-001	-1.145708E+000
623	3	-8.280962E-005	-3.517441E-004	-2.922037E-001	-1.241168E+000
623	4	-1.011188E-004	-3.530902E-004	-3.567998E-001	-1.245906E+000
623	5	-9.177020E-005	-3.247775E-004	-3.238159E-001	-1.146010E+000
623	6	-8.280980E-005	-3.382196E-004	-2.922029E-001	-1.193433E+000
623	7	-9.177020E-005	-3.524038E-004	-3.238159E-001	-1.243489E+000
623	8	-1.011152E-004	-3.389777E-004	-3.567963E-001	-1.196112E+000
623	9	-9.177020E-005	-3.385904E-004	-3.238159E-001	-1.194744E+000
624	1	-7.659016E-005	-3.296419E-004	-2.702534E-001	-1.163177E+000
624	2	-5.247811E-005	-3.294073E-004	-1.851681E-001	-1.162336E+000
624	3	-5.247883E-005	-3.668635E-004	-1.851732E-001	-1.294507E+000
624	4	-7.658871E-005	-3.687308E-004	-2.702513E-001	-1.301100E+000
624	5	-6.427504E-005	-3.295237E-004	-2.268012E-001	-1.162743E+000
624	6	-5.247815E-005	-3.481355E-004	-1.851735E-001	-1.228419E+000
624	7	-6.427527E-005	-3.677797E-004	-2.268038E-001	-1.297740E+000
624	8	-7.659107E-005	-3.491898E-004	-2.702533E-001	-1.232143E+000
624	9	-6.427554E-005	-3.486501E-004	-2.268039E-001	-1.230242E+000
625	1	-4.331138E-004	-3.113051E-004	-1.528351E-001	-1.098506E+000
625	2	-1.591727E-004	-3.109286E-004	-5.617145E-002	-1.097150E+000
625	3	-1.591800E-004	-3.450665E-004	-5.616935E-002	-1.217636E+000
625	4	-4.331202E-004	-3.454502E-004	-1.528352E-001	-1.218994E+000
626	1	-1.299321E-005	-5.982294E-004	-4.584391E-002	-2.110900E+000
626	2	-4.252809E-007	-5.976848E-006	-1.500664E-001	-2.108981E+000
626	3	-7.473564E-007	-9.656485E-006	-1.500652E-001	-1.938960E+000
626	4	-1.299271E-005	-5.500439E-004	-4.584185E-002	-1.940881E+000
627	1	-5.876971E-005	-2.203001E-004	-2.073929E-002	-7.773736E-001
627	2	-5.834958E-005	-2.202984E-004	-2.059173E-002	-7.773707E-001
627	3	-5.835748E-005	-2.203284E-004	-2.059249E-002	-7.774748E-001
627	4	-5.877565E-005	-2.203282E-004	-2.074005E-002	-7.774731E-001
628	1	-4.359464E-005	-3.185637E-004	-1.538278E-001	-1.124078E+000
628	2	-7.231462E-006	-3.183807E-004	-2.551731E-002	-1.123432E+000
628	3	-7.232877E-006	-3.783408E-004	-2.551962E-002	-1.335085E+000
628	4	-4.359471E-005	-3.809952E-004	-1.538226E-001	-1.344370E+000
628	5	-2.504576E-005	-3.184661E-004	-8.837533E-002	-1.123740E+000
628	6	-7.232402E-006	-3.483591E-004	-2.551775E-002	-1.229212E+000
628	7	-2.504576E-005	-3.796401E-004	-8.837533E-002	-1.339593E+000
628	8	-4.359723E-005	-3.497798E-004	-1.538309E-001	-1.234224E+000
628	9	-2.504576E-005	-3.490552E-004	-8.837533E-002	-1.231669E+000
629	1	-5.686257E-003	-7.680083E-004	-1.978165E-002	-2.710078E-002
629	2	-5.019583E-003	-7.680251E-004	-1.770991E-002	-2.710119E-002
629	3	-5.018842E-003	-8.893796E-004	-1.770512E-002	-2.856194E-002
629	4	-5.685947E-003	-8.894016E-004	-1.978182E-002	-2.856264E-002
630	1	-5.558578E-002	-7.253984E-003	-1.961428E-001	-2.559732E-001
630	2	-5.315897E-002	-7.253947E-003	-1.875829E-001	-2.559724E-001
630	3	-5.315895E-002	-7.425551E-003	-1.875812E-001	-2.620258E-001
630	4	-5.558524E-002	-7.425530E-003	-1.961444E-001	-2.620243E-001
631	1	-6.145581E-002	-7.329164E-003	-2.168623E-001	-2.586261E-001

631	2	-5.788034E-002	-7.329246E-003	-2.039903E-001	-2.586268E-001
631	3	-5.788038E-002	-7.587556E-003	-2.039895E-001	-2.677411E-001
631	4	-6.145682E-002	-7.587535E-003	-2.168637E-001	-2.677404E-001
632	1	-6.689456E-002	-6.568839E-003	-2.360488E-001	-2.317949E-001
632	2	-6.389090E-002	-6.568856E-003	-2.254544E-001	-2.317938E-001
632	3	-6.389096E-002	-6.781138E-003	-2.254538E-001	-2.392868E-001
632	4	-6.689514E-002	-6.781117E-003	-2.360510E-001	-2.392861E-001
633	1	-5.847150E-002	-4.391205E-003	-2.063305E-001	-1.549517E-001
633	2	-6.544314E-002	-4.391188E-003	-2.309334E-001	-1.549526E-001
633	3	-6.544263E-002	-3.898721E-003	-2.309289E-001	-1.375736E-001
633	4	-5.847209E-002	-3.898699E-003	-2.063304E-001	-1.375736E-001
634	1	-3.141763E-002	-1.954332E-003	-1.108706E-001	-6.896488E-002
634	2	-4.935687E-002	-1.954361E-003	-1.741596E-001	-6.896392E-002
634	3	-4.935622E-002	-6.844592E-004	-1.741650E-001	-2.415183E-002
634	4	-3.141989E-002	-6.844374E-004	-1.108688E-001	-2.415304E-002
635	1	-1.150264E-002	-1.284592E-003	-4.058645E-002	-4.532869E-002
635	2	-2.127571E-002	-1.284507E-003	-7.507593E-002	-4.533012E-002
635	3	-2.127568E-002	-5.940644E-004	-7.507469E-002	-2.096060E-002
635	4	-1.150254E-002	-5.939829E-004	-4.058606E-002	-2.095990E-002
636	1	-5.463502E-003	-1.266729E-003	-1.928291E-002	-4.469897E-002
636	2	-7.265944E-003	-1.266822E-003	-2.563778E-002	-4.470141E-002
636	3	-7.265430E-003	-1.139739E-003	-2.563984E-002	-4.021890E-002
636	4	-5.463953E-003	-1.139487E-003	-1.928332E-002	-4.021183E-002
637	1	-4.720342E-002	-5.427769E-003	-1.665701E-001	-1.915324E-001
637	2	-4.646084E-002	-5.427783E-003	-1.639421E-001	-1.915303E-001
637	3	-4.645978E-002	-5.488621E-003	-1.639430E-001	-1.933948E-001
637	4	-4.720413E-002	-5.488595E-003	-1.665703E-001	-1.933937E-001
638	1	-4.980103E-002	-6.191438E-003	-1.729895E-001	-2.184751E-001
638	2	-4.788417E-002	-6.191412E-003	-1.689718E-001	-2.184747E-001
638	3	-4.788470E-002	-6.270508E-003	-1.689717E-001	-2.212667E-001
638	4	-4.980151E-002	-6.270431E-003	-1.729100E-001	-2.212601E-001
639	1	-5.166381E-002	-6.822927E-003	-1.823086E-001	-2.407635E-001
639	2	-5.001177E-002	-6.822881E-003	-1.764791E-001	-2.407608E-001
639	3	-5.001258E-002	-6.939685E-003	-1.764791E-001	-2.448830E-001
639	4	-5.166475E-002	-6.939961E-003	-1.823099E-001	-2.448899E-001
640	1	-4.434177E-002	-5.341679E-004	-1.564672E-001	-1.884728E-002
640	2	-4.432165E-002	-5.340959E-004	-1.563966E-001	-1.884750E-002
640	3	-4.432050E-002	-5.356931E-004	-1.563968E-001	-1.890066E-002
640	4	-4.434191E-002	-5.356842E-004	-1.564730E-001	-1.890037E-002
641	1	-4.446036E-002	-1.594713E-003	-1.569169E-001	-5.627807E-002
641	2	-4.438167E-002	-1.594652E-003	-1.566104E-001	-5.627031E-002
641	3	-4.438205E-002	-1.600874E-003	-1.566107E-001	-5.648771E-002
641	4	-4.446919E-002	-1.600864E-003	-1.569178E-001	-5.648932E-002
642	1	-4.474228E-002	-2.631740E-003	-1.578784E-001	-9.286750E-002
642	2	-4.456463E-002	-2.631074E-003	-1.572588E-001	-9.286825E-002
642	3	-4.456445E-002	-2.644260E-003	-1.572591E-001	-9.331121E-002
642	4	-4.474229E-002	-2.644387E-003	-1.578836E-001	-9.331089E-002
643	1	-4.522717E-002	-3.627298E-003	-1.595938E-001	-1.279978E-001
643	2	-4.492035E-002	-3.627284E-003	-1.585079E-001	-1.279982E-001
643	3	-4.491951E-002	-3.649173E-003	-1.585001E-001	-1.287682E-001
643	4	-4.522880E-002	-3.649102E-003	-1.595927E-001	-1.287678E-001
644	1	-4.600754E-002	-4.566206E-003	-1.623460E-001	-1.611275E-001
644	2	-4.551885E-002	-4.566153E-003	-1.606229E-001	-1.611278E-001
644	3	-4.551823E-002	-4.600754E-003	-1.606249E-001	-1.623456E-001
644	4	-4.600791E-002	-4.600682E-003	-1.623437E-001	-1.623452E-001
645	1	-2.705871E-006	-6.835073E-007	-9.547527E-001	-2.411853E-001
645	2	-1.268041E-006	-5.500396E-007	-4.474298E-001	-1.940894E-001
645	3	-1.267981E-004	-1.314714E-004	-4.474228E-001	-4.639108E-001
645	4	-2.705784E-006	-1.545976E-006	-9.547528E-001	-5.455113E-001
645	5	-1.943692E-006	-6.127732E-007	-6.858416E-001	-2.162213E-001

645	6	-1.309127E-004	-9.626470E-005	-4.474169E-001	-3.290032E-001
645	7	-1.943698E-006	-1.423417E-006	-6.858497E-001	-5.822578E-001
645	8	-2.705745E-006	-1.114730E-006	-9.547527E-001	-3.933525E-001
645	9	-1.943707E-006	-1.018891E-006	-6.858457E-001	-3.592397E-001
646	1	-3.982664E-005	-6.265326E-005	-4.037584E-001	-6.351814E-001
646	2	-1.584268E-004	-1.835067E-004	-5.308031E-001	-6.475233E-001
646	3	-1.584270E-004	-1.612187E-004	-5.307972E-001	-5.688651E-001
646	4	-1.144212E-004	-1.554059E-004	-4.037657E-001	-5.483553E-001
646	5	-1.333157E-004	-1.818457E-004	-4.704205E-001	-6.416585E-001
646	6	-1.584297E-004	-1.723619E-004	-5.307931E-001	-6.081926E-001
646	7	-1.333194E-004	-1.584552E-004	-4.704130E-001	-5.591158E-001
646	8	-1.144239E-004	-1.677096E-004	-4.037568E-001	-5.917693E-001
646	9	-1.333148E-004	-1.701493E-004	-4.704168E-001	-6.003895E-001
647	1	-1.746957E-006	-1.780231E-008	-6.164339E-001	-6.281612E-003
647	2	-2.667632E-006	-1.841139E-007	-9.412968E-001	-6.496276E-002
647	3	-2.667631E-006	+1.438888E-007	-9.412083E-001	+5.077458E-002
647	4	-1.746997E-006	+3.727536E-007	-6.164443E-001	+1.315463E-001
647	5	-2.247412E-006	-1.882208E-007	-7.930113E-001	-3.818398E-002
647	6	-2.667596E-006	-2.013763E-008	-9.412989E-001	-7.097729E-003
647	7	-2.247427E-006	+2.483774E-007	-7.930090E-001	+8.763833E-002
647	8	-1.747006E-006	+1.774621E-007	-6.164392E-001	+6.261764E-002
647	9	-2.247437E-006	+7.806489E-008	-7.930343E-001	+2.472508E-002
648	1	-1.558448E-004	-1.795419E-004	-5.499263E-001	-6.335359E-001
648	2	-1.603788E-004	-1.799614E-004	-5.659125E-001	-6.350167E-001
648	3	-1.603751E-004	-1.767946E-004	-5.659106E-001	-6.238344E-001
648	4	-1.558469E-004	-1.760705E-004	-5.499249E-001	-6.212751E-001
648	5	-1.582171E-004	-1.797623E-004	-5.582014E-001	-6.343078E-001
648	6	-1.603777E-004	-1.783751E-004	-5.658941E-001	-6.294174E-001
648	7	-1.582171E-004	-1.764494E-004	-5.582014E-001	-6.226122E-001
648	8	-1.558440E-004	-1.778047E-004	-5.498950E-001	-6.274002E-001
648	9	-1.582171E-004	-1.781063E-004	-5.582014E-001	-6.284580E-001
649	1	-2.600854E-006	-5.896145E-007	-9.177456E-001	-1.798297E-001
649	2	-1.571151E-006	-3.245447E-007	-5.543846E-001	-1.145134E-001
649	3	-1.571157E-006	-7.795562E-007	-5.543855E-001	-2.750771E-001
649	4	-2.600886E-006	-1.834329E-006	-9.177281E-001	-3.649732E-001
649	5	-2.049368E-006	-4.105184E-007	-7.231395E-001	-1.448586E-001
649	6	-1.571151E-006	-5.520381E-007	-5.543842E-001	-1.947958E-001
649	7	-2.049368E-006	-8.978739E-007	-7.231395E-001	-3.168253E-001
649	8	-2.600844E-006	-7.719880E-007	-9.177254E-001	-2.724028E-001
649	9	-2.049368E-006	-6.542181E-007	-7.231395E-001	-2.308378E-001
650	1	-1.616013E-004	-1.929122E-004	-5.702266E-001	-6.807026E-001
650	2	-1.655645E-004	-1.932976E-004	-5.842143E-001	-6.820631E-001
650	3	-1.655693E-004	-1.901666E-004	-5.842385E-001	-6.710198E-001
650	4	-1.616013E-004	-1.895238E-004	-5.702342E-001	-6.687497E-001
650	5	-1.636612E-004	-1.931121E-004	-5.774998E-001	-6.814134E-001
650	6	-1.655654E-004	-1.917322E-004	-5.842212E-001	-6.765381E-001
650	7	-1.636606E-004	-1.898585E-004	-5.774944E-001	-6.699289E-001
650	8	-1.616013E-004	-1.912165E-004	-5.702342E-001	-6.747283E-001
650	9	-1.636620E-004	-1.914843E-004	-5.774955E-001	-6.756705E-001
651	1	-1.666673E-004	-2.111457E-004	-5.880944E-001	-7.450471E-001
651	2	-1.702596E-004	-2.114808E-004	-6.007850E-001	-7.462264E-001
651	3	-1.702613E-004	-2.083538E-004	-6.007866E-001	-7.351893E-001
651	4	-1.666658E-004	-2.077747E-004	-5.880921E-001	-7.331497E-001
651	5	-1.685287E-004	-2.113204E-004	-5.946732E-001	-7.456540E-001
651	6	-1.702614E-004	-2.099160E-004	-6.007868E-001	-7.407039E-001
651	7	-1.685287E-004	-2.080777E-004	-5.946732E-001	-7.342207E-001
651	8	-1.666643E-004	-2.094611E-004	-5.881009E-001	-7.390997E-001
651	9	-1.685287E-004	-2.096972E-004	-5.946732E-001	-7.399338E-001
652	1	-1.919902E-006	+3.813738E-007	-6.774620E-001	+1.345699E-001
652	2	-1.862804E-006	+3.967223E-007	-6.573223E-001	+1.399787E-001

652	3	-1.862740E-006	+3.760498E-007	-6.572839E-001	+1.326977E-001
652	4	-1.919967E-006	+3.570765E-007	-6.774539E-001	+1.259898E-001
652	5	-1.889041E-006	+3.896378E-007	-6.665539E-001	+1.374820E-001
652	6	-1.862774E-006	+3.863825E-007	-6.572910E-001	+1.363393E-001
652	7	-1.889009E-006	+3.673491E-007	-6.665560E-001	+1.296308E-001
652	8	-1.919905E-006	+3.692273E-007	-6.774732E-001	+1.302771E-001
652	9	-1.889010E-006	+3.785109E-007	-6.665328E-001	+1.335529E-001
653	1	-1.451065E-006	-1.453342E-006	-5.120336E-001	-5.128319E-001
653	2	-1.495772E-004	-1.461395E-004	-5.277930E-001	-5.156679E-001
653	3	-1.495822E-004	-1.437629E-004	-5.278104E-001	-5.072855E-001
653	4	-1.451161E-006	-1.426723E-006	-5.120358E-001	-5.034313E-001
653	5	-1.977105E-006	-1.954129E-006	-5.203786E-001	-5.143381E-001
653	6	-1.495761E-004	-1.449538E-004	-5.277952E-001	-5.114744E-001
653	7	-1.474743E-004	-1.432554E-004	-5.203696E-001	-5.054764E-001
653	8	-1.451113E-006	-1.440036E-006	-5.120335E-001	-5.081272E-001
653	9	-1.493481E-004	-1.463459E-004	-5.203587E-001	-5.058999E-001
654	1	-1.710887E-004	-2.386785E-004	-6.836885E-001	-8.139653E-001
654	2	-1.732572E-004	-2.388889E-004	-6.113493E-001	-8.147143E-001
654	3	-1.732571E-004	-2.288008E-004	-6.113512E-001	-8.073446E-001
654	4	-1.710889E-004	-2.284517E-004	-6.836929E-001	-8.061082E-001
654	5	-1.722868E-004	-2.307893E-004	-6.076396E-001	-8.143589E-001
654	6	-1.732564E-004	-2.298443E-004	-6.113504E-001	-8.110245E-001
654	7	-1.722868E-004	-2.286327E-004	-6.076396E-001	-8.067582E-001
654	8	-1.710864E-004	-2.295668E-004	-6.836907E-001	-8.100417E-001
654	9	-1.722868E-004	-2.297089E-004	-6.076396E-001	-8.105528E-001
655	1	-1.735863E-004	-2.516482E-004	-6.125113E-001	-8.879381E-001
655	2	-1.738113E-004	-2.516634E-004	-6.133084E-001	-8.880150E-001
655	3	-1.738128E-004	-2.514278E-004	-6.133125E-001	-8.871773E-001
655	4	-1.735866E-004	-2.513897E-004	-6.125169E-001	-8.870547E-001
655	5	-1.737853E-004	-2.516527E-004	-6.129325E-001	-8.879703E-001
655	6	-1.738118E-004	-2.515424E-004	-6.133094E-001	-8.875927E-001
655	7	-1.737833E-004	-2.514090E-004	-6.129308E-001	-8.871246E-001
655	8	-1.735875E-004	-2.515140E-004	-6.125103E-001	-8.874874E-001
655	9	-1.737037E-004	-2.515301E-004	-6.129305E-001	-8.875465E-001
656	1	-1.513757E-004	-1.573968E-004	-5.341349E-001	-5.553835E-001
656	2	-1.588023E-004	-1.587402E-004	-5.603585E-001	-5.601278E-001
656	3	-1.588064E-004	-1.541698E-004	-5.603541E-001	-5.440061E-001
656	4	-1.513685E-004	-1.523208E-004	-5.341333E-001	-5.374799E-001
656	5	-1.552844E-004	-1.581051E-004	-5.479379E-001	-5.578824E-001
656	6	-1.588027E-004	-1.564537E-004	-5.603487E-001	-5.520600E-001
656	7	-1.552844E-004	-1.532937E-004	-5.479230E-001	-5.409243E-001
656	8	-1.513721E-004	-1.548595E-004	-5.341278E-001	-5.464379E-001
656	9	-1.552836E-004	-1.557002E-004	-5.479349E-001	-5.493972E-001
657	1	-1.782742E-006	-9.318037E-007	-6.296689E-001	-3.287874E-001
657	2	-1.353140E-006	-8.173013E-007	-4.774703E-001	-2.883844E-001
657	3	-1.431385E-004	-1.065072E-004	-4.774675E-001	-3.552867E-001
657	4	-1.782753E-006	-1.148841E-006	-6.296693E-001	-4.053737E-001
657	5	-1.553458E-006	-8.706798E-007	-5.481622E-001	-3.072340E-001
657	6	-1.353147E-006	-9.120866E-007	-4.774697E-001	-3.218356E-001
657	7	-1.553458E-006	-1.073060E-006	-5.481622E-001	-3.786449E-001
657	8	-1.782772E-006	-1.040346E-006	-6.296615E-001	-3.671089E-001
657	9	-1.553458E-006	-9.718724E-007	-5.481622E-001	-3.429346E-001
658	1	-1.735010E-004	-2.738384E-004	-6.122133E-001	-9.662632E-001
658	2	-1.713008E-004	-2.736238E-004	-6.044509E-001	-9.655839E-001
658	3	-1.713008E-004	-2.761151E-004	-6.044449E-001	-9.742891E-001
658	4	-1.735010E-004	-2.764800E-004	-6.122133E-001	-9.755812E-001
658	5	-1.723690E-004	-2.737269E-004	-6.082188E-001	-9.658754E-001
658	6	-1.712997E-004	-2.748702E-004	-6.044469E-001	-9.698998E-001
658	7	-1.723690E-004	-2.762928E-004	-6.082188E-001	-9.749202E-001
658	8	-1.735055E-004	-2.751598E-004	-6.122164E-001	-9.709237E-001

658	9	-1.723698E-004	-2.750111E-004	-6.082188E-001	-9.704808E-001
659	1	-1.581711E-006	+4.848391E-007	-5.581279E-001	+1.710989E-001
659	2	-1.838346E-006	+3.946913E-007	-6.486716E-001	+1.392673E-001
659	3	-1.838402E-006	+4.861299E-007	-6.487066E-001	+1.715389E-001
659	4	-1.581653E-006	+5.937857E-007	-5.581164E-001	+2.095397E-001
659	5	-1.721217E-006	+4.358847E-007	-6.073207E-001	+1.538046E-001
659	6	-1.838369E-006	+4.404023E-007	-6.486812E-001	+1.553950E-001
659	7	-1.721208E-006	+5.352557E-007	-6.073523E-001	+1.888765E-001
659	8	-1.581706E-006	+5.393892E-007	-5.581044E-001	+1.902975E-001
659	9	-1.721208E-006	+4.855811E-007	-6.073276E-001	+1.713356E-001
660	1	-1.614799E-004	-1.753381E-004	-5.697932E-001	-6.186947E-001
660	2	-1.720586E-004	-1.772404E-004	-6.071233E-001	-6.254050E-001
660	3	-1.720593E-004	-1.698411E-004	-6.071208E-001	-5.993000E-001
660	4	-1.614747E-004	-1.672226E-004	-5.697924E-001	-5.900546E-001
660	5	-1.670889E-004	-1.763317E-004	-5.893070E-001	-6.221976E-001
660	6	-1.720591E-004	-1.735419E-004	-6.071214E-001	-6.123515E-001
660	7	-1.670889E-004	-1.685958E-004	-5.893070E-001	-5.948963E-001
660	8	-1.614791E-004	-1.712812E-004	-5.697928E-001	-6.043790E-001
660	9	-1.670889E-004	-1.724625E-004	-5.893070E-001	-6.085480E-001
661	1	-1.701104E-004	-2.966946E-004	-6.002476E-001	-1.046921E+000
661	2	-1.643658E-004	-2.961660E-004	-5.799783E-001	-1.045045E+000
661	3	-1.643634E-004	-3.031385E-004	-5.799697E-001	-1.069650E+000
661	4	-1.701089E-004	-3.040685E-004	-6.002429E-001	-1.072893E+000
661	5	-1.671601E-004	-2.964278E-004	-5.898368E-001	-1.045960E+000
661	6	-1.643642E-004	-2.996533E-004	-5.799673E-001	-1.057349E+000
661	7	-1.671596E-004	-3.035857E-004	-5.898366E-001	-1.071226E+000
661	8	-1.701106E-004	-3.003770E-004	-6.002529E-001	-1.059906E+000
661	9	-1.671592E-004	-3.080051E-004	-5.898363E-001	-1.058594E+000
662	1	-1.363889E-004	-1.403402E-004	-4.714615E-001	-4.851094E-001
662	2	-1.552834E-004	-1.432002E-004	-5.479331E-001	-5.052983E-001
662	3	-1.552791E-004	-1.317699E-004	-5.479262E-001	-4.649564E-001
662	4	-1.336151E-004	-1.244897E-004	-4.714482E-001	-4.392688E-001
662	5	-1.451480E-004	-1.405209E-004	-5.121295E-001	-4.958420E-001
662	6	-1.552791E-004	-1.374861E-004	-5.479212E-001	-4.851279E-001
662	7	-1.451331E-004	-1.283612E-004	-5.121362E-001	-4.529287E-001
662	8	-1.336072E-004	-1.309860E-004	-4.714485E-001	-4.621995E-001
662	9	-1.451372E-004	-1.344436E-004	-5.121246E-001	-4.743951E-001
663	1	-1.620452E-004	-3.199217E-004	-5.717941E-001	-1.128873E+000
663	2	-1.520946E-004	-3.189987E-004	-5.366762E-001	-1.125609E+000
663	3	-1.520956E-004	-3.320880E-004	-5.366807E-001	-1.171516E+000
663	4	-1.620457E-004	-3.336087E-004	-5.717898E-001	-1.177165E+000
663	5	-1.569440E-004	-3.194456E-004	-5.537918E-001	-1.127198E+000
663	6	-1.520939E-004	-3.255030E-004	-5.366788E-001	-1.148565E+000
663	7	-1.569440E-004	-3.327861E-004	-5.537918E-001	-1.174262E+000
663	8	-1.620455E-004	-3.267647E-004	-5.717907E-001	-1.153010E+000
663	9	-1.569440E-004	-3.261175E-004	-5.537918E-001	-1.150729E+000
664	1	-1.745868E-004	-1.903625E-004	-6.160437E-001	-6.717036E-001
664	2	-1.817289E-004	-1.916485E-004	-6.412421E-001	-6.762440E-001
664	3	-1.817302E-004	-1.868017E-004	-6.412437E-001	-6.563215E-001
664	4	-1.745800E-004	-1.842550E-004	-6.160159E-001	-6.501638E-001
664	5	-1.782978E-004	-1.910296E-004	-6.291320E-001	-6.740686E-001
664	6	-1.817332E-004	-1.888240E-004	-6.412602E-001	-6.662825E-001
664	7	-1.782959E-004	-1.851619E-004	-6.291295E-001	-6.533586E-001
664	8	-1.745837E-004	-1.873077E-004	-6.160159E-001	-6.609331E-001
664	9	-1.782953E-004	-1.880962E-004	-6.291338E-001	-6.637106E-001
665	1	-1.484130E-004	-3.429141E-004	-5.236968E-001	-1.218001E+000
665	2	-1.333021E-004	-3.414536E-004	-4.703713E-001	-1.204847E+000
665	3	-1.333009E-004	-3.624273E-004	-4.703726E-001	-1.278847E+000
665	4	-1.484147E-004	-3.648524E-004	-5.236916E-001	-1.287414E+000
665	5	-1.408696E-004	-3.421686E-004	-4.964325E-001	-1.207368E+000

665	6	-1.333043E-004	-3.519393E-004	-4.703756E-001	-1.241847E+000
665	7	-1.408805E-004	-3.636098E-004	-4.964334E-001	-1.283037E+000
665	8	-1.484124E-004	-3.538833E-004	-5.236883E-001	-1.248705E+000
665	9	-1.408903E-004	-3.528898E-004	-4.964357E-001	-1.245202E+000
666	1	-1.828168E-006	-1.213488E-006	-6.450739E-001	-4.281912E-001
666	2	-1.590546E-004	-1.130432E-004	-5.612292E-001	-3.988709E-001
666	3	-1.590557E-004	-1.235426E-004	-5.612426E-001	-4.359351E-001
666	4	-1.828180E-006	-1.334540E-006	-6.450899E-001	-4.709322E-001
666	5	-1.700948E-006	-1.168977E-006	-6.001939E-001	-4.124897E-001
666	6	-1.590569E-004	-1.182924E-004	-5.612432E-001	-4.174077E-001
666	7	-1.816606E-004	-7.659118E-005	-6.001939E-001	-4.521930E-001
666	8	-1.828257E-006	-1.274055E-006	-6.450971E-001	-4.495665E-001
666	9	-1.700948E-006	-1.225259E-006	-6.001939E-001	-4.323367E-001
667	1	-1.357345E-006	+6.960079E-007	-4.789610E-001	+2.456010E-001
667	2	-1.196754E-006	+7.665627E-007	-4.222747E-001	+2.704882E-001
667	3	-1.196686E-006	+7.093258E-007	-4.222502E-001	+2.502901E-001
667	4	-1.357349E-006	+6.278898E-007	-4.789507E-001	+2.215537E-001
667	5	-1.269974E-006	+7.343020E-007	-4.481205E-001	+2.591248E-001
667	6	-1.196669E-006	+7.379417E-007	-4.222558E-001	+2.603892E-001
667	7	-1.269974E-006	+6.722016E-007	-4.481383E-001	+2.371829E-001
667	8	-1.357361E-006	+6.618968E-007	-4.789736E-001	+2.335754E-001
667	9	-1.269948E-006	+7.032574E-007	-4.481306E-001	+2.481418E-001
668	1	-1.279503E-004	-3.642172E-004	-4.514742E-001	-1.285174E+000
668	2	-1.066265E-004	-3.622398E-004	-3.762428E-001	-1.278191E+000
668	3	-1.066278E-004	-3.937517E-004	-3.762415E-001	-1.389389E+000
668	4	-1.279500E-004	-3.971832E-004	-4.514790E-001	-1.401495E+000
668	5	-1.170481E-004	-3.632055E-004	-4.130122E-001	-1.281613E+000
668	6	-1.066263E-004	-3.779968E-004	-3.762437E-001	-1.333792E+000
668	7	-1.170481E-004	-3.954304E-004	-4.130122E-001	-1.395306E+000
668	8	-1.279469E-004	-3.887012E-004	-4.514737E-001	-1.343334E+000
668	9	-1.170481E-004	-3.793194E-004	-4.130122E-001	-1.338455E+000
669	1	-1.836809E-004	-2.093165E-004	-6.481493E-001	-7.385900E-001
669	2	-1.900070E-004	-2.104560E-004	-6.704615E-001	-7.426060E-001
669	3	-1.900107E-004	-2.043575E-004	-6.704626E-001	-7.232117E-001
669	4	-1.836845E-004	-2.033947E-004	-6.481470E-001	-7.176933E-001
669	5	-1.869666E-004	-2.099076E-004	-6.597273E-001	-7.406771E-001
669	6	-1.900068E-004	-2.077063E-004	-6.704615E-001	-7.329087E-001
669	7	-1.869666E-004	-2.042053E-004	-6.597273E-001	-7.205500E-001
669	8	-1.836833E-004	-2.063566E-004	-6.481398E-001	-7.281381E-001
669	9	-1.869666E-004	-2.070565E-004	-6.597273E-001	-7.306156E-001
670	1	-1.598786E-004	-1.526475E-004	-5.641453E-001	-5.386263E-001
670	2	-1.713263E-004	-1.557095E-004	-6.045324E-001	-5.494381E-001
670	3	-1.713268E-004	-1.486228E-004	-6.045268E-001	-5.244325E-001
670	4	-1.598710E-004	-1.448193E-004	-5.641420E-001	-5.110230E-001
670	5	-1.658817E-004	-1.542554E-004	-5.853423E-001	-5.443035E-001
670	6	-1.713266E-004	-1.521677E-004	-6.045372E-001	-5.369359E-001
670	7	-1.658863E-004	-1.468197E-004	-5.853379E-001	-5.180683E-001
670	8	-1.598754E-004	-1.487364E-004	-5.641372E-001	-5.248242E-001
670	9	-1.658831E-004	-1.505373E-004	-5.853401E-001	-5.311829E-001
671	1	-9.922287E-005	-3.833032E-004	-3.501124E-001	-1.352523E+000
671	2	-6.996880E-005	-3.804744E-004	-2.468581E-001	-1.342535E+000
671	3	-6.995979E-005	-4.260558E-004	-2.468574E-001	-1.503370E+000
671	4	-9.922304E-005	-4.307551E-004	-3.501133E-001	-1.519958E+000
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731	4	-5.503815E-002	-8.050652E-003	-1.942150E-001	-2.840831E-001
732	1	-4.384311E-002	-3.706504E-003	-1.547061E-001	-1.307914E-001
732	2	-4.349566E-002	-3.706512E-003	-1.534824E-001	-1.307919E-001
732	3	-4.349476E-002	-3.731049E-003	-1.534798E-001	-1.316575E-001
732	4	-4.384281E-002	-3.731008E-003	-1.547088E-001	-1.316568E-001
733	1	-4.470764E-002	-4.690303E-003	-1.577571E-001	-1.655072E-001
733	2	-4.416823E-002	-4.690309E-003	-1.558578E-001	-1.655075E-001
733	3	-4.416761E-002	-4.728429E-003	-1.558520E-001	-1.668518E-001
733	4	-4.470880E-002	-4.728406E-003	-1.577585E-001	-1.668511E-001
734	1	-4.601060E-002	-5.616568E-003	-1.623590E-001	-1.981924E-001
734	2	-4.520053E-002	-5.616572E-003	-1.595028E-001	-1.981927E-001
734	3	-4.519965E-002	-5.673826E-003	-1.595009E-001	-2.002141E-001
734	4	-4.600960E-002	-5.673805E-003	-1.623591E-001	-2.002134E-001
735	1	-4.794080E-002	-6.472527E-003	-1.691709E-001	-2.283976E-001
735	2	-4.674396E-002	-6.472543E-003	-1.649497E-001	-2.283973E-001
735	3	-4.674475E-002	-6.557108E-003	-1.649497E-001	-2.313806E-001
735	4	-4.794052E-002	-6.557068E-003	-1.691711E-001	-2.313800E-001
736	1	-4.282290E-002	-5.395320E-004	-1.511049E-001	-1.904037E-002
736	2	-4.279701E-002	-5.396151E-004	-1.510195E-001	-1.904084E-002
736	3	-4.279736E-002	-5.413507E-004	-1.510187E-001	-1.910364E-002
736	4	-4.282279E-002	-5.414222E-004	-1.511045E-001	-1.910619E-002
737	1	-4.296970E-002	-1.617239E-003	-1.516263E-001	-5.706926E-002
737	2	-4.286889E-002	-1.617228E-003	-1.512702E-001	-5.706874E-002
737	3	-4.286825E-002	-1.624421E-003	-1.512706E-001	-5.732211E-002
737	4	-4.296932E-002	-1.624426E-003	-1.516286E-001	-5.732036E-002
738	1	-4.329189E-002	-2.677894E-003	-1.527592E-001	-9.449347E-002
738	2	-4.388247E-002	-2.677869E-003	-1.520255E-001	-9.449320E-002
738	3	-4.388207E-002	-2.692567E-003	-1.520293E-001	-9.501249E-002
738	4	-4.329064E-002	-2.692583E-003	-1.527606E-001	-9.501437E-002
739	1	-2.435381E-004	-3.243610E-004	-8.593439E-001	-1.144536E+000
739	2	-2.473435E-004	-3.253800E-004	-8.727713E-001	-1.148138E+000
739	3	-2.473435E-004	-3.287579E-004	-8.727697E-001	-1.131824E+000
739	4	-2.435410E-004	-3.194829E-004	-8.593577E-001	-1.127327E+000
739	5	-2.454941E-004	-3.248857E-004	-8.662421E-001	-1.146377E+000
739	6	-2.473446E-004	-3.230686E-004	-8.727742E-001	-1.139981E+000
739	7	-2.454942E-004	-3.201372E-004	-8.662488E-001	-1.129635E+000
739	8	-2.435394E-004	-3.219253E-004	-8.593463E-001	-1.135935E+000
739	9	-2.454926E-004	-3.225124E-004	-8.662432E-001	-1.138018E+000

740	1	-2.393246E-004	-2.253869E-004	-8.444778E-001	-7.952879E-001
740	2	-2.529512E-004	-2.302298E-004	-8.925591E-001	-8.123815E-001
740	3	-2.529518E-004	-2.171464E-004	-8.925606E-001	-7.662152E-001
740	4	-2.393229E-004	-2.114219E-004	-8.444749E-001	-7.468271E-001
740	5	-2.463598E-004	-2.278892E-004	-8.692971E-001	-8.041255E-001
740	6	-2.529505E-004	-2.236886E-004	-8.925607E-001	-7.893063E-001
740	7	-2.463598E-004	-2.143798E-004	-8.692971E-001	-7.564442E-001
740	8	-2.393244E-004	-2.184055E-004	-8.444833E-001	-7.706581E-001
740	9	-2.463598E-004	-2.211320E-004	-8.692971E-001	-7.802834E-001
741	1	-2.223822E-004	-1.722493E-004	-7.847010E-001	-6.077889E-001
741	2	-2.385285E-004	-1.793342E-004	-8.416561E-001	-6.327973E-001
741	3	-2.385302E-004	-1.665763E-004	-8.416600E-001	-5.877734E-001
741	4	-2.223791E-004	-1.583862E-004	-7.846882E-001	-5.580803E-001
741	5	-2.307856E-004	-1.759367E-004	-8.143464E-001	-6.288029E-001
741	6	-2.385293E-004	-1.729566E-004	-8.416757E-001	-6.182855E-001
741	7	-2.307864E-004	-1.626502E-004	-8.143529E-001	-5.739237E-001
741	8	-2.223822E-004	-1.653183E-004	-7.847010E-001	-5.833343E-001
741	9	-2.307871E-004	-1.692939E-004	-8.143541E-001	-5.973686E-001
742	1	-2.478019E-004	-3.669802E-004	-8.743866E-001	-1.294644E+000
742	2	-2.473703E-004	-3.667865E-004	-8.728663E-001	-1.294229E+000
742	3	-2.473693E-004	-3.673477E-004	-8.728639E-001	-1.296221E+000
742	4	-2.478016E-004	-3.674922E-004	-8.743854E-001	-1.296721E+000
742	5	-2.475804E-004	-3.668414E-004	-8.736078E-001	-1.294428E+000
742	6	-2.473679E-004	-3.670679E-004	-8.728623E-001	-1.295224E+000
742	7	-2.475804E-004	-3.674166E-004	-8.736078E-001	-1.296465E+000
742	8	-2.478027E-004	-3.671958E-004	-8.743929E-001	-1.295683E+000
742	9	-2.475804E-004	-3.671298E-004	-8.736078E-001	-1.295448E+000
743	1	-2.169166E-004	-1.460616E-004	-7.654047E-001	-5.153961E-001
743	2	-2.345532E-004	-1.553100E-004	-8.276349E-001	-5.480171E-001
743	3	-2.345509E-004	-1.429811E-004	-8.276176E-001	-5.045161E-001
743	4	-2.169159E-004	-1.325371E-004	-7.653913E-001	-4.676652E-001
743	5	-2.261396E-004	-1.509027E-004	-7.979548E-001	-5.324681E-001
743	6	-2.345502E-004	-1.491428E-004	-8.276188E-001	-5.262666E-001
743	7	-2.261396E-004	-1.379993E-004	-7.979548E-001	-4.869485E-001
743	8	-2.169088E-004	-1.392998E-004	-7.653751E-001	-4.915233E-001
743	9	-2.261396E-004	-1.444516E-004	-7.979548E-001	-5.097032E-001
744	1	-2.569693E-004	-2.546744E-004	-9.067224E-001	-8.986327E-001
744	2	-2.708472E-004	-2.595246E-004	-9.557060E-001	-9.157565E-001
744	3	-2.708474E-004	-2.451842E-004	-9.557045E-001	-8.648682E-001
744	4	-2.569671E-004	-2.393107E-004	-9.067250E-001	-8.444237E-001
744	5	-2.641238E-004	-2.571760E-004	-9.319853E-001	-9.074664E-001
744	6	-2.708474E-004	-2.523159E-004	-9.557019E-001	-8.903185E-001
744	7	-2.641253E-004	-2.422975E-004	-9.319827E-001	-8.549707E-001
744	8	-2.569657E-004	-2.469912E-004	-9.067244E-001	-8.715301E-001
744	9	-2.641256E-004	-2.497374E-004	-9.319865E-001	-8.812181E-001
745	1	-2.462585E-004	-4.158965E-004	-8.689144E-001	-1.467521E+000
745	2	-2.393385E-004	-4.140497E-004	-8.444993E-001	-1.461010E+000
745	3	-2.393292E-004	-4.236204E-004	-8.444999E-001	-1.494775E+000
745	4	-2.462489E-004	-4.259351E-004	-8.689180E-001	-1.502941E+000
745	5	-2.427088E-004	-4.149519E-004	-8.564162E-001	-1.464189E+000
745	6	-2.393324E-004	-4.188349E-004	-8.445022E-001	-1.477898E+000
745	7	-2.427085E-004	-4.247513E-004	-8.564160E-001	-1.498766E+000
745	8	-2.462464E-004	-4.209123E-004	-8.689027E-001	-1.485225E+000
745	9	-2.427088E-004	-4.198506E-004	-8.564160E-001	-1.481471E+000
746	1	-2.434203E-004	-1.931845E-004	-8.589244E-001	-6.816652E-001
746	2	-2.608730E-004	-2.008015E-004	-9.205148E-001	-7.085502E-001
746	3	-2.608725E-004	-1.855567E-004	-9.205140E-001	-6.547559E-001
746	4	-2.434224E-004	-1.768208E-004	-8.589308E-001	-6.239351E-001
746	5	-2.524564E-004	-1.971285E-004	-8.908080E-001	-6.955759E-001
746	6	-2.608728E-004	-1.931822E-004	-9.205148E-001	-6.816489E-001

746	7	-2.524564E-004	-1.813481E-004	-8.908080E-001	-6.398948E-001
746	8	-2.434201E-004	-1.850042E-004	-8.589276E-001	-6.528032E-001
746	9	-2.524564E-004	-1.892378E-004	-8.908080E-001	-6.677352E-001
747	1	-2.749021E-004	-2.908505E-004	-9.700154E-001	-1.023474E+000
747	2	-2.888801E-004	-2.949628E-004	-1.019336E+000	-1.040804E+000
747	3	-2.888799E-004	-2.791407E-004	-1.019338E+000	-9.849772E-001
747	4	-2.749022E-004	-2.732798E-004	-9.700145E-001	-9.642813E-001
747	5	-2.828937E-004	-2.925777E-004	-9.953930E-001	-1.032387E+000
747	6	-2.888796E-004	-2.870542E-004	-1.019334E+000	-1.012888E+000
747	7	-2.828937E-004	-2.762942E-004	-9.953930E-001	-9.749250E-001
747	8	-2.749009E-004	-2.816663E-004	-9.700105E-001	-9.938861E-001
747	9	-2.828937E-004	-2.844368E-004	-9.953930E-001	-1.003668E+000
748	1	-2.357682E-004	-4.705206E-004	-8.319398E-001	-1.660262E+000
748	2	-2.187380E-004	-4.669320E-004	-7.718349E-001	-1.644436E+000
748	3	-2.187392E-004	-4.912071E-004	-7.718335E-001	-1.733261E+000
748	4	-2.357681E-004	-4.968525E-004	-8.319339E-001	-1.753184E+000
748	5	-2.278626E-004	-4.682225E-004	-8.012091E-001	-1.652169E+000
748	6	-2.187380E-004	-4.786193E-004	-7.718326E-001	-1.688849E+000
748	7	-2.278626E-004	-4.939649E-004	-8.012091E-001	-1.743006E+000
748	8	-2.357716E-004	-4.836868E-004	-8.319349E-001	-1.706732E+000
748	9	-2.278626E-004	-4.810958E-004	-8.012091E-001	-1.697587E+000
749	1	-2.399600E-004	-1.630373E-004	-9.467226E-001	-5.752859E-001
749	2	-2.594443E-004	-1.732958E-004	-9.154736E-001	-6.114851E-001
749	3	-2.594492E-004	-1.579042E-004	-9.154904E-001	-5.571828E-001
749	4	-2.399608E-004	-1.463972E-004	-8.467174E-001	-5.165787E-001
749	5	-2.500849E-004	-1.683632E-004	-8.824430E-001	-5.940874E-001
749	6	-2.594458E-004	-1.656010E-004	-9.154707E-001	-5.843318E-001
749	7	-2.500814E-004	-1.523789E-004	-8.824432E-001	-5.376759E-001
749	8	-2.399569E-004	-1.547189E-004	-8.467097E-001	-5.459399E-001
749	9	-2.500821E-004	-1.603722E-004	-8.824444E-001	-5.658867E-001
750	1	-2.662154E-004	-2.180822E-004	-9.393622E-001	-7.695236E-001
750	2	-2.852576E-004	-2.264448E-004	-1.006556E+000	-7.990323E-001
750	3	-2.852579E-004	-2.081453E-004	-1.006558E+000	-7.344599E-001
750	4	-2.662144E-004	-1.984882E-004	-9.393682E-001	-7.003849E-001
750	5	-2.760627E-004	-2.224055E-004	-9.741114E-001	-7.847777E-001
750	6	-2.852590E-004	-2.172957E-004	-1.006557E+000	-7.667454E-001
750	7	-2.760627E-004	-2.034816E-004	-9.741114E-001	-7.179950E-001
750	8	-2.662137E-004	-2.082816E-004	-9.393691E-001	-7.349434E-001
750	9	-2.760627E-004	-2.129434E-004	-9.741114E-001	-7.513989E-001
751	1	-2.115094E-004	-5.277385E-004	-7.463347E-001	-1.862179E+000
751	2	-1.795237E-004	-5.192160E-004	-6.334636E-001	-1.832094E+000
751	3	-1.795226E-004	-5.690408E-004	-6.334621E-001	-2.007984E+000
751	4	-2.115111E-004	-5.796127E-004	-7.463366E-001	-2.045203E+000
751	5	-1.951941E-004	-5.233987E-004	-6.887624E-001	-1.846826E+000
751	6	-1.795241E-004	-5.441251E-004	-6.334664E-001	-1.919994E+000
751	7	-1.951947E-004	-5.742182E-004	-6.887593E-001	-2.026178E+000
751	8	-2.115117E-004	-5.536768E-004	-7.463347E-001	-1.953691E+000
751	9	-1.951940E-004	-5.488049E-004	-6.887580E-001	-1.936504E+000
752	1	-2.928755E-004	-3.332631E-004	-1.033444E+000	-1.175940E+000
752	2	-3.064449E-004	-3.380621E-004	-1.081317E+000	-1.192878E+000
752	3	-3.064459E-004	-3.216010E-004	-1.081320E+000	-1.134791E+000
752	4	-2.928761E-004	-3.159308E-004	-1.033441E+000	-1.114788E+000
752	5	-2.998338E-004	-3.357237E-004	-1.057986E+000	-1.184633E+000
752	6	-3.064435E-004	-3.298387E-004	-1.081311E+000	-1.163839E+000
752	7	-2.998325E-004	-3.188383E-004	-1.057991E+000	-1.125044E+000
752	8	-2.928766E-004	-3.245971E-004	-1.033438E+000	-1.145367E+000
752	9	-2.998331E-004	-3.272801E-004	-1.057990E+000	-1.154840E+000
753	1	-1.672191E-004	-5.764174E-004	-5.900484E-001	-2.033934E+000
753	2	-1.156583E-004	-5.625802E-004	-4.881059E-001	-1.985107E+000
753	3	-1.156586E-004	-6.476045E-004	-4.881071E-001	-2.285113E+000

753	4	-1.672185E-004	-6.649501E-004	-5.900514E-001	-2.346331E+000
753	5	-1.409186E-004	-5.693573E-004	-4.972418E-001	-2.009026E+000
753	6	-1.156579E-004	-6.050904E-004	-4.881081E-001	-2.135111E+000
753	7	-1.409186E-004	-6.561016E-004	-4.972418E-001	-2.315110E+000
753	8	-1.672202E-004	-6.206828E-004	-5.900509E-001	-2.198132E+000
753	9	-1.409186E-004	-6.127288E-004	-4.972418E-001	-2.162067E+000
754	1	-2.656060E-004	-1.826904E-004	-9.372108E-001	-6.446385E-001
754	2	-2.880675E-004	-1.943571E-004	-1.016455E+000	-6.858092E-001
754	3	-2.880668E-004	-1.748387E-004	-1.016456E+000	-6.169310E-001
754	4	-2.656032E-004	-1.616513E-004	-9.372075E-001	-5.703878E-001
754	5	-2.772540E-004	-1.887448E-004	-9.783084E-001	-6.659924E-001
754	6	-2.880672E-004	-1.845970E-004	-1.016456E+000	-6.513679E-001
754	7	-2.772540E-004	-1.684948E-004	-9.783084E-001	-5.945425E-001
754	8	-2.656037E-004	-1.721712E-004	-9.372053E-001	-6.075172E-001
754	9	-2.772540E-004	-1.786174E-004	-9.783084E-001	-6.302686E-001
755	1	-2.911554E-004	-2.482321E-004	-1.027366E+000	-8.759061E-001
755	2	-3.124785E-004	-2.575493E-004	-1.102610E+000	-9.087844E-001
755	3	-3.124784E-004	-2.352954E-004	-1.102609E+000	-8.302578E-001
755	4	-2.911554E-004	-2.245321E-004	-1.027370E+000	-7.922769E-001
755	5	-3.021554E-004	-2.530364E-004	-1.066177E+000	-8.928609E-001
755	6	-3.124784E-004	-2.464214E-004	-1.102606E+000	-8.695175E-001
755	7	-3.021543E-004	-2.300833E-004	-1.066181E+000	-8.118706E-001
755	8	-2.911570E-004	-2.363798E-004	-1.027367E+000	-8.340927E-001
755	9	-3.021549E-004	-2.415602E-004	-1.066175E+000	-8.523698E-001
756	1	+8.899861E-005	-5.153630E-004	+2.858222E-002	-1.818560E+000
756	2	+3.396230E-004	-5.147961E-004	+1.198406E-001	-1.816563E+000
756	3	+3.396186E-004	-5.469632E-004	+1.198413E-001	-1.930072E+000
756	4	+8.793744E-005	-5.943744E-004	+2.858230E-002	-1.932252E+000
757	1	-8.591027E-005	-6.023727E-004	-3.031458E-001	-2.125521E+000
757	2	-2.407199E-005	-6.041423E-004	-8.494356E-002	-2.131762E+000
757	3	-2.407225E-005	-7.049636E-004	-8.494128E-002	-2.487515E+000
757	4	-8.591210E-005	-7.030269E-004	-3.031428E-001	-2.480607E+000
758	1	-9.823219E-003	-1.413865E-003	-3.465970E-002	-4.986237E-002
758	2	-5.367908E-003	-1.413021E-003	-1.894210E-002	-4.986340E-002
758	3	-5.367714E-003	-1.727912E-003	-1.894402E-002	-6.097000E-002
758	4	-9.822886E-003	-1.727830E-003	-3.465979E-002	-6.096929E-002
759	1	+3.181643E-004	-1.669398E-004	+1.122656E-001	-5.898819E-001
759	2	+7.776592E-006	-9.205829E-004	+4.984145E-004	-5.898833E-001
759	3	+2.395576E-006	-2.444867E-004	+4.976698E-004	-5.899503E-001
759	4	+3.181592E-004	-1.445149E-004	+1.122689E-001	-5.899496E-001
760	1	-7.276293E-003	+2.044804E-003	-2.567703E-002	+7.215484E-002
760	2	-1.317801E-002	+2.043947E-003	-4.650549E-002	+7.212216E-002
760	3	-1.317829E-002	+2.461784E-003	-4.650102E-002	+8.686955E-002
760	4	-7.275841E-003	+2.462044E-003	-2.567663E-002	+8.687643E-002
761	1	-4.031562E-003	-7.869992E-004	-1.422584E-002	-2.777079E-002
761	2	-4.029417E-003	-7.878477E-004	-1.703909E-002	-2.777210E-002
761	3	-4.029133E-003	-7.306652E-004	-1.704222E-002	-2.578000E-002
761	4	-4.031666E-003	-7.304446E-004	-1.422626E-002	-2.577437E-002
762	1	-6.121042E-002	-8.773225E-003	-2.159960E-001	-3.095801E-001
762	2	-5.713774E-002	-8.773169E-003	-2.816245E-001	-3.095791E-001
762	3	-5.713806E-002	-9.861596E-003	-2.816245E-001	-3.197572E-001
762	4	-6.121147E-002	-9.861628E-003	-2.159976E-001	-3.197563E-001
763	1	-7.462689E-002	-8.354443E-003	-2.633321E-001	-2.948045E-001
763	2	-6.589567E-002	-8.354465E-003	-2.325325E-001	-2.948031E-001
763	3	-6.589678E-002	-8.971209E-003	-2.325323E-001	-3.165691E-001
763	4	-7.462540E-002	-8.971259E-003	-2.633285E-001	-3.165680E-001
764	1	-7.454491E-002	-2.241310E-003	-2.630454E-001	-7.909871E-002
764	2	-7.694335E-002	-2.241289E-003	-2.715111E-001	-7.908943E-002
764	3	-7.694440E-002	-2.071876E-003	-2.715107E-001	-7.311036E-002
764	4	-7.454491E-002	-2.071844E-003	-2.630445E-001	-7.311124E-002

765	1	-2.766936E-002	+6.245017E-003	-9.763003E-002	+2.203716E-001
765	2	-6.134035E-002	+6.245131E-003	-2.164569E-001	+2.203706E-001
765	3	-6.134065E-002	+8.629111E-003	-2.164550E-001	+3.044960E-001
765	4	-2.766759E-002	+8.629058E-003	-9.763236E-002	+3.044950E-001
766	1	-3.181075E-004	-3.865287E-004	-1.094243E+000	-1.363886E+000
766	2	-3.217760E-004	-3.906250E-004	-1.135418E+000	-1.378350E+000
766	3	-3.217756E-004	-3.754297E-004	-1.135407E+000	-1.324728E+000
766	4	-3.181057E-004	-3.785327E-004	-1.094236E+000	-1.307462E+000
766	5	-3.160889E-004	-3.886288E-004	-1.115350E+000	-1.371306E+000
766	6	-3.217740E-004	-3.830264E-004	-1.135406E+000	-1.351539E+000
766	7	-3.160889E-004	-3.730404E-004	-1.115350E+000	-1.316303E+000
766	8	-3.181068E-004	-3.785288E-004	-1.094243E+000	-1.335669E+000
766	9	-3.160889E-004	-3.808333E-004	-1.115350E+000	-1.343808E+000
767	1	-5.465533E-002	-8.188399E-003	-1.928611E-001	-2.889451E-001
767	2	-5.194521E-002	-8.187815E-003	-1.832968E-001	-2.889253E-001
767	3	-5.194532E-002	-8.379576E-003	-1.832937E-001	-2.956804E-001
767	4	-5.465499E-002	-8.380014E-003	-1.928596E-001	-2.957072E-001
768	1	-4.402514E-002	-4.756808E-003	-1.553547E-001	-1.678541E-001
768	2	-4.346408E-002	-4.756822E-003	-1.533750E-001	-1.678545E-001
768	3	-4.346472E-002	-4.796445E-003	-1.533776E-001	-1.692510E-001
768	4	-4.402358E-002	-4.796404E-003	-1.553485E-001	-1.692497E-001
769	1	-4.536723E-002	-5.716465E-003	-1.600908E-001	-2.817170E-001
769	2	-4.453373E-002	-5.716361E-003	-1.571505E-001	-2.817155E-001
769	3	-4.453571E-002	-5.775428E-003	-1.571492E-001	-2.837968E-001
769	4	-4.536916E-002	-5.775389E-003	-1.600989E-001	-2.837974E-001
770	1	-4.734542E-002	-6.619710E-003	-1.670653E-001	-2.335898E-001
770	2	-4.611967E-002	-6.619740E-003	-1.627459E-001	-2.335903E-001
770	3	-4.612046E-002	-6.786278E-003	-1.627459E-001	-2.366444E-001
770	4	-4.734699E-002	-6.786298E-003	-1.670716E-001	-2.366450E-001
771	1	-5.828315E-002	-7.459115E-003	-1.774342E-001	-2.632104E-001
771	2	-4.846110E-002	-7.459036E-003	-1.710839E-001	-2.632090E-001
771	3	-4.846085E-002	-7.587833E-003	-1.710836E-001	-2.677527E-001
771	4	-5.828381E-002	-7.587854E-003	-1.774368E-001	-2.677534E-001
772	1	-4.254803E-002	-2.783628E-003	-1.501384E-001	-9.540331E-002
772	2	-4.232509E-002	-2.783679E-003	-1.493555E-001	-9.540435E-002
772	3	-4.232494E-002	-2.719303E-003	-1.493549E-001	-9.595736E-002
772	4	-4.254774E-002	-2.719302E-003	-1.501397E-001	-9.595830E-002
773	1	-4.312626E-002	-3.749415E-003	-1.521798E-001	-1.323052E-001
773	2	-4.276120E-002	-3.749495E-003	-1.508955E-001	-1.323078E-001
773	3	-4.276126E-002	-3.775202E-003	-1.508948E-001	-1.332151E-001
773	4	-4.312692E-002	-3.775213E-003	-1.521824E-001	-1.332171E-001
774	1	-4.205170E-002	-5.425393E-004	-1.483908E-001	-1.914594E-002
774	2	-4.203190E-002	-5.425824E-004	-1.483198E-001	-1.914617E-002
774	3	-4.203194E-002	-5.439391E-004	-1.483193E-001	-1.919327E-002
774	4	-4.205189E-002	-5.439629E-004	-1.483891E-001	-1.919213E-002
775	1	-4.220536E-002	-1.629876E-003	-1.489319E-001	-5.751358E-002
775	2	-4.209871E-002	-1.629875E-003	-1.485517E-001	-5.751385E-002
775	3	-4.209848E-002	-1.637409E-003	-1.485527E-001	-5.777743E-002
775	4	-4.220403E-002	-1.637433E-003	-1.489304E-001	-5.777819E-002
776	1	-3.245376E-004	-4.527837E-004	-1.145144E+000	-1.597680E+000
776	2	-3.320763E-004	-4.554541E-004	-1.171759E+000	-1.607111E+000
776	3	-3.320784E-004	-4.450236E-004	-1.171760E+000	-1.570302E+000
776	4	-3.245352E-004	-4.418416E-004	-1.145155E+000	-1.559071E+000
776	5	-3.283977E-004	-4.541515E-004	-1.158775E+000	-1.602515E+000
776	6	-3.320769E-004	-4.502405E-004	-1.171756E+000	-1.588708E+000
776	7	-3.283983E-004	-4.434702E-004	-1.158774E+000	-1.564821E+000
776	8	-3.245388E-004	-4.473124E-004	-1.145154E+000	-1.578375E+000
776	9	-3.283979E-004	-4.488123E-004	-1.158777E+000	-1.583668E+000
777	1	-3.191321E-004	-2.855864E-004	-1.126078E+000	-1.007712E+000
777	2	-3.434019E-004	-2.962314E-004	-1.211722E+000	-1.045273E+000

777	3	-3.434038E-004	-2.686516E-004	-1.211724E+000	-9.479601E-001
777	4	-3.191324E-004	-2.564464E-004	-1.126078E+000	-9.049017E-001
777	5	-3.316002E-004	-2.910526E-004	-1.170079E+000	-1.027004E+000
777	6	-3.434028E-004	-2.824455E-004	-1.211726E+000	-9.966272E-001
777	7	-3.316002E-004	-2.627158E-004	-1.170079E+000	-9.270155E-001
777	8	-3.191278E-004	-2.710181E-004	-1.126074E+000	-9.563137E-001
777	9	-3.316002E-004	-2.768883E-004	-1.170079E+000	-9.770197E-001
778	1	-2.948657E-004	-2.868344E-004	-1.040459E+000	-7.298269E-001
778	2	-3.198179E-004	-2.195565E-004	-1.125682E+000	-7.747231E-001
778	3	-3.198181E-004	-1.963499E-004	-1.125685E+000	-6.920301E-001
778	4	-2.948643E-004	-1.819737E-004	-1.040462E+000	-6.421094E-001
778	5	-3.073534E-004	-2.134113E-004	-1.084526E+000	-7.530395E-001
778	6	-3.198206E-004	-2.079529E-004	-1.125683E+000	-7.337747E-001
778	7	-3.073534E-004	-1.894096E-004	-1.084526E+000	-6.683435E-001
778	8	-2.948700E-004	-1.944019E-004	-1.040460E+000	-6.859658E-001
778	9	-3.073534E-004	-2.014093E-004	-1.084526E+000	-7.106900E-001
779	1	-3.326831E-004	-5.344123E-004	-1.173901E+000	-1.885714E+000
779	2	-3.298754E-004	-5.334248E-004	-1.163996E+000	-1.882229E+000
779	3	-3.298766E-004	-5.375783E-004	-1.163995E+000	-1.896879E+000
779	4	-3.326846E-004	-5.387542E-004	-1.173905E+000	-1.901042E+000
779	5	-3.312503E-004	-5.339074E-004	-1.168843E+000	-1.883935E+000
779	6	-3.298768E-004	-5.354982E-004	-1.163994E+000	-1.889554E+000
779	7	-3.312503E-004	-5.381548E-004	-1.168843E+000	-1.898917E+000
779	8	-3.326827E-004	-5.365812E-004	-1.173899E+000	-1.893376E+000
779	9	-3.312503E-004	-5.360300E-004	-1.168843E+000	-1.891424E+000
780	1	-3.510042E-004	-3.338074E-004	-1.238553E+000	-1.175328E+000
780	2	-3.786584E-004	-3.451677E-004	-1.336124E+000	-1.217960E+000
780	3	-3.786582E-004	-3.116023E-004	-1.336122E+000	-1.099513E+000
780	4	-3.510060E-004	-2.976523E-004	-1.238547E+000	-1.050280E+000
780	5	-3.652039E-004	-3.392916E-004	-1.288658E+000	-1.197218E+000
780	6	-3.786574E-004	-3.283875E-004	-1.336120E+000	-1.158745E+000
780	7	-3.652060E-004	-3.048118E-004	-1.288651E+000	-1.075557E+000
780	8	-3.510034E-004	-3.153683E-004	-1.238539E+000	-1.112796E+000
780	9	-3.652045E-004	-3.220547E-004	-1.288652E+000	-1.136398E+000
781	1	-3.270954E-004	-2.345850E-004	-1.154173E+000	-8.277502E-001
781	2	-3.580668E-004	-2.508110E-004	-1.263467E+000	-8.850070E-001
781	3	-3.580666E-004	-2.185000E-004	-1.263470E+000	-7.709975E-001
781	4	-3.270953E-004	-2.002969E-004	-1.154177E+000	-7.067633E-001
781	5	-3.430445E-004	-2.429410E-004	-1.210457E+000	-8.572310E-001
781	6	-3.580669E-004	-2.346552E-004	-1.263469E+000	-8.279943E-001
781	7	-3.430449E-004	-2.096642E-004	-1.210452E+000	-7.398190E-001
781	8	-3.270935E-004	-2.174367E-004	-1.154175E+000	-7.672477E-001
781	9	-3.430434E-004	-2.263026E-004	-1.210453E+000	-7.985291E-001
782	1	-3.254583E-004	-6.321207E-004	-1.148409E+000	-2.230491E+000
782	2	-2.990883E-004	-6.229816E-004	-1.055362E+000	-2.197957E+000
782	3	-2.990906E-004	-6.639921E-004	-1.055361E+000	-2.342952E+000
782	4	-3.254602E-004	-6.749976E-004	-1.148409E+000	-2.381785E+000
782	5	-3.119913E-004	-6.274138E-004	-1.100888E+000	-2.213868E+000
782	6	-2.990872E-004	-6.434451E-004	-1.055355E+000	-2.270448E+000
782	7	-3.119922E-004	-6.693775E-004	-1.100887E+000	-2.361955E+000
782	8	-3.254573E-004	-6.535586E-004	-1.148410E+000	-2.306134E+000
782	9	-3.119927E-004	-6.483959E-004	-1.100888E+000	-2.287913E+000
783	1	-3.873076E-004	-3.950278E-004	-1.366645E+000	-1.393093E+000
783	2	-4.188724E-004	-4.088888E-004	-1.478028E+000	-1.442797E+000
783	3	-4.188730E-004	-3.676237E-004	-1.478024E+000	-1.297187E+000
783	4	-3.873071E-004	-3.516145E-004	-1.366650E+000	-1.240698E+000
783	5	-4.034900E-004	-4.021333E-004	-1.423751E+000	-1.418954E+000
783	6	-4.188721E-004	-3.882549E-004	-1.478023E+000	-1.369991E+000
783	7	-4.034900E-004	-3.598210E-004	-1.423751E+000	-1.269657E+000
783	8	-3.873070E-004	-3.733193E-004	-1.366647E+000	-1.317251E+000

783	9	-4.034900E-004	-3.889773E-004	-1.423751E+000	-1.344315E+000
784	1	-2.823776E-004	-7.391782E-004	-5.963928E-001	-2.608254E+000
784	2	-1.964708E-004	-7.086213E-004	-6.932645E-001	-2.500425E+000
784	3	-1.964703E-004	-8.506482E-004	-6.932635E-001	-3.001581E+000
784	4	-2.823785E-004	-8.867221E-004	-5.963942E-001	-3.128874E+000
784	5	-2.386064E-004	-7.236898E-004	-8.419406E-001	-2.553314E+000
784	6	-1.964704E-004	-7.796329E-004	-6.932628E-001	-2.751001E+000
784	7	-2.386064E-004	-8.683424E-004	-8.419406E-001	-3.064016E+000
784	8	-2.823775E-004	-8.129521E-004	-5.963944E-001	-2.868568E+000
784	9	-2.386064E-004	-7.959768E-004	-8.419406E-001	-2.808662E+000
785	1	-3.679470E-004	-2.788504E-004	-1.298337E+000	-9.557219E-001
785	2	-4.043842E-004	-2.898760E-004	-1.426907E+000	-1.022845E+000
785	3	-4.043836E-004	-2.486317E-004	-1.426901E+000	-8.773198E-001
785	4	-3.679469E-004	-2.271323E-004	-1.298328E+000	-8.014560E-001
785	5	-3.866983E-004	-2.806415E-004	-1.364493E+000	-9.902575E-001
785	6	-4.043846E-004	-2.692511E-004	-1.426903E+000	-9.500802E-001
785	7	-3.866983E-004	-2.381951E-004	-1.364493E+000	-8.404856E-001
785	8	-3.679479E-004	-2.489330E-004	-1.298332E+000	-8.785877E-001
785	9	-3.866983E-004	-2.594197E-004	-1.364493E+000	-9.153852E-001
786	1	-2.495785E-005	-1.495145E-003	-3.394338E-003	-2.035388E+000
786	2	+3.678182E-004	-5.758494E-004	+1.297921E-001	-2.032804E+000
786	3	+3.678055E-004	-6.227947E-004	+1.297888E-001	-2.197659E+000
786	4	-2.494866E-005	-1.617022E-003	-3.398052E-003	-2.201310E+000
787	1	-1.487264E-004	-7.962129E-004	-5.247898E-001	-2.809500E+000
787	2	-5.075052E-005	-7.994687E-004	-1.798798E-001	-2.820992E+000
787	3	-5.075075E-005	-9.591984E-004	-1.798784E-001	-3.384614E+000
787	4	-1.487250E-004	-9.556850E-004	-5.247909E-001	-3.372214E+000
788	1	-2.421752E-003	-6.586156E-004	-8.544434E-003	-2.324047E-002
788	2	-4.393141E-003	-6.587998E-004	-1.550407E-002	-2.324920E-002
788	3	-4.392855E-003	-5.196134E-004	-1.550148E-002	-1.833642E-002
788	4	-2.422208E-003	-5.195325E-004	-8.547463E-003	-1.833117E-002
789	1	-1.175964E-002	-2.033438E-003	-4.149451E-002	-7.175533E-002
789	2	-4.396849E-003	-2.033514E-003	-1.551521E-002	-7.175348E-002
789	3	-4.396648E-003	-2.553770E-003	-1.551417E-002	-9.011455E-002
789	4	-1.175929E-002	-2.553748E-003	-4.149718E-002	-9.011382E-002
790	1	+3.682784E-004	-1.265779E-004	+1.299526E-001	-4.466549E-001
790	2	-9.436719E-005	-1.674056E-003	-2.516814E-003	-4.466554E-001
790	3	-4.418006E-004	-6.198348E-003	-2.517258E-003	-3.528686E-001
790	4	+3.682811E-004	-9.999888E-005	+1.299523E-001	-3.528680E-001
791	1	-7.771835E-002	-9.501745E-003	-2.742443E-001	-3.352878E-001
791	2	-6.593461E-002	-9.501769E-003	-2.326679E-001	-3.352882E-001
791	3	-6.593566E-002	-1.033419E-002	-2.326675E-001	-3.646669E-001
791	4	-7.771883E-002	-1.033427E-002	-2.742448E-001	-3.646651E-001
792	1	-8.683319E-002	-2.100811E-003	-3.864103E-001	-7.413050E-002
792	2	-8.331726E-002	-2.100818E-003	-2.940067E-001	-7.413037E-002
792	3	-8.331826E-002	-2.349229E-003	-2.940016E-001	-8.289532E-002
792	4	-8.683535E-002	-2.349195E-003	-3.864128E-001	-8.289538E-002
793	1	-2.174368E-002	+1.076092E-002	-7.672808E-002	+3.797206E-001
793	2	-7.033461E-002	+1.076095E-002	-2.481930E-001	+3.797201E-001
793	3	-7.033515E-002	+1.420123E-002	-2.481939E-001	+5.011162E-001
793	4	-2.174417E-002	+1.420114E-002	-7.672621E-002	+5.011159E-001
794	1	-4.871474E-003	+2.597490E-003	-1.718649E-002	+9.165869E-002
794	2	-4.204666E-003	+2.597608E-003	-1.483405E-002	+9.165823E-002
794	3	-4.203417E-003	+2.550517E-003	-1.483272E-002	+8.999673E-002
794	4	-4.872326E-003	+2.550286E-003	-1.719250E-002	+8.999278E-002
795	1	-5.427071E-002	-8.524917E-003	-1.915029E-001	-3.088181E-001
795	2	-5.137948E-002	-8.524349E-003	-1.812982E-001	-3.088010E-001
795	3	-5.137867E-002	-8.729207E-003	-1.812990E-001	-3.088278E-001
795	4	-5.426949E-002	-8.729339E-003	-1.915017E-001	-3.088315E-001
796	1	-6.028054E-002	-9.261472E-003	-2.127460E-001	-3.268116E-001

796	2	-5.665444E-002	-9.261503E-003	-1.999160E-001	-3.268090E-001
796	3	-5.665239E-002	-9.519075E-003	-1.999122E-001	-3.358995E-001
796	4	-6.029857E-002	-9.519569E-003	-2.127451E-001	-3.359177E-001
797	1	-4.469482E-002	-5.818995E-003	-1.577071E-001	-2.053349E-001
797	2	-4.384574E-002	-5.819000E-003	-1.547165E-001	-2.053351E-001
797	3	-4.384526E-002	-5.879040E-003	-1.547155E-001	-2.074578E-001
797	4	-4.469483E-002	-5.879078E-003	-1.577096E-001	-2.074577E-001
798	1	-4.671334E-002	-6.770312E-003	-1.648338E-001	-2.389038E-001
798	2	-4.546268E-002	-6.770302E-003	-1.604251E-001	-2.389039E-001
798	3	-4.546229E-002	-6.858632E-003	-1.604252E-001	-2.420223E-001
798	4	-4.671294E-002	-6.858695E-003	-1.648335E-001	-2.420224E-001
799	1	-4.965349E-002	-7.681985E-003	-1.752074E-001	-2.710731E-001
799	2	-4.783544E-002	-7.681991E-003	-1.687954E-001	-2.710733E-001
799	3	-4.783579E-002	-7.810342E-003	-1.687991E-001	-2.756848E-001
799	4	-4.965259E-002	-7.810411E-003	-1.752088E-001	-2.756851E-001
800	1	-4.239361E-002	-3.794462E-003	-1.495915E-001	-1.338950E-001
800	2	-4.201446E-002	-3.794257E-003	-1.482581E-001	-1.338875E-001
800	3	-4.201579E-002	-3.821135E-003	-1.482584E-001	-1.348389E-001
800	4	-4.239331E-002	-3.821154E-003	-1.495941E-001	-1.348367E-001
801	1	-4.332217E-002	-4.825842E-003	-1.528724E-001	-1.702901E-001
801	2	-4.274231E-002	-4.825901E-003	-1.508285E-001	-1.702926E-001
801	3	-4.274318E-002	-4.866752E-003	-1.508257E-001	-1.717352E-001
801	4	-4.332187E-002	-4.866852E-003	-1.528686E-001	-1.717364E-001
802	1	-4.127789E-002	-5.449211E-004	-1.456555E-001	-1.922780E-002
802	2	-4.126201E-002	-5.448771E-004	-1.456035E-001	-1.922753E-002
802	3	-4.126397E-002	-5.459443E-004	-1.456030E-001	-1.926445E-002
802	4	-4.127889E-002	-5.459315E-004	-1.456552E-001	-1.926404E-002
803	1	-4.143491E-002	-1.643161E-003	-1.462122E-001	-5.797981E-002
803	2	-4.132350E-002	-1.643067E-003	-1.458181E-001	-5.798097E-002
803	3	-4.132297E-002	-1.651041E-003	-1.458185E-001	-5.825789E-002
803	4	-4.143454E-002	-1.651028E-003	-1.462107E-001	-5.825937E-002
804	1	-4.179196E-002	-2.731103E-003	-1.474689E-001	-9.637445E-002
804	2	-4.155995E-002	-2.731157E-003	-1.466540E-001	-9.637415E-002
804	3	-4.156076E-002	-2.747421E-003	-1.466535E-001	-9.695136E-002
804	4	-4.179166E-002	-2.747545E-003	-1.474741E-001	-9.695090E-002
805	1	-4.286471E-004	-4.777276E-004	-1.512518E+000	-1.685700E+000
805	2	-4.642323E-004	-4.934152E-004	-1.638086E+000	-1.741055E+000
805	3	-4.642344E-004	-4.440412E-004	-1.638087E+000	-1.566841E+000
805	4	-4.286458E-004	-4.262135E-004	-1.512510E+000	-1.503930E+000
805	5	-4.468191E-004	-4.857440E-004	-1.576642E+000	-1.713976E+000
805	6	-4.642325E-004	-4.687281E-004	-1.638083E+000	-1.653944E+000
805	7	-4.468200E-004	-4.353186E-004	-1.576641E+000	-1.536059E+000
805	8	-4.286455E-004	-4.519719E-004	-1.512507E+000	-1.594823E+000
805	9	-4.468210E-004	-4.685296E-004	-1.576641E+000	-1.625012E+000
806	1	-4.164100E-004	-3.176397E-004	-1.469338E+000	-1.120816E+000
806	2	-4.620476E-004	-3.415720E-004	-1.630375E+000	-1.205258E+000
806	3	-4.620492E-004	-2.861805E-004	-1.630380E+000	-1.009812E+000
806	4	-4.164129E-004	-2.591565E-004	-1.469337E+000	-9.144626E-001
806	5	-4.398473E-004	-3.299297E-004	-1.552038E+000	-1.164187E+000
806	6	-4.620485E-004	-3.138743E-004	-1.630377E+000	-1.107532E+000
806	7	-4.398474E-004	-2.730386E-004	-1.552043E+000	-9.634361E-001
806	8	-4.164123E-004	-2.884015E-004	-1.469344E+000	-1.017648E+000
806	9	-4.398492E-004	-3.014845E-004	-1.552042E+000	-1.063807E+000
807	1	-4.751754E-004	-5.917658E-004	-1.676690E+000	-2.088090E+000
807	2	-5.143596E-004	-6.089720E-004	-1.814963E+000	-2.148807E+000
807	3	-5.143614E-004	-5.512352E-004	-1.814963E+000	-1.945880E+000
807	4	-4.751744E-004	-5.313636E-004	-1.676696E+000	-1.874950E+000
807	5	-4.952090E-004	-6.005655E-004	-1.747392E+000	-2.119142E+000
807	6	-5.143597E-004	-5.801030E-004	-1.814961E+000	-2.046939E+000
807	7	-4.952090E-004	-5.415235E-004	-1.747392E+000	-1.910809E+000

807	8	-4.751730E-004	-5.615506E-004	-1.676694E+000	-1.981511E+000
807	9	-4.952090E-004	-5.710416E-004	-1.747392E+000	-2.014971E+000
808	1	-4.774510E-004	-3.800226E-004	-1.684725E+000	-1.340937E+000
808	2	-5.370805E-004	-4.113767E-004	-1.894879E+000	-1.451576E+000
808	3	-5.378092E-004	-3.335365E-004	-1.894882E+000	-1.176913E+000
808	4	-4.774498E-004	-2.983583E-004	-1.684719E+000	-1.052788E+000
808	5	-5.879415E-004	-3.960704E-004	-1.792311E+000	-1.397564E+000
808	6	-5.370079E-004	-3.724553E-004	-1.894880E+000	-1.314240E+000
808	7	-5.879415E-004	-3.163624E-004	-1.792311E+000	-1.116322E+000
808	8	-4.774494E-004	-3.391918E-004	-1.684723E+000	-1.196862E+000
808	9	-5.879415E-004	-3.562202E-004	-1.792311E+000	-1.256951E+000
809	1	-5.261902E-004	-7.570902E-004	-1.856698E+000	-2.671452E+000
809	2	-5.681653E-004	-7.754336E-004	-2.004821E+000	-2.736183E+000
809	3	-5.681661E-004	-7.102165E-004	-2.004820E+000	-2.506059E+000
809	4	-5.261882E-004	-6.890301E-004	-1.856707E+000	-2.431294E+000
809	5	-5.476249E-004	-7.664565E-004	-1.932341E+000	-2.704506E+000
809	6	-5.681675E-004	-7.428281E-004	-2.004824E+000	-2.621129E+000
809	7	-5.476268E-004	-6.998488E-004	-1.932344E+000	-2.469470E+000
809	8	-5.261911E-004	-7.230612E-004	-1.856706E+000	-2.551374E+000
809	9	-5.476252E-004	-7.331541E-004	-1.932343E+000	-2.586993E+000
810	1	-5.835360E-004	-1.021808E-003	-2.059858E+000	-3.605531E+000
810	2	-6.463449E-004	-1.049355E-003	-2.280676E+000	-3.702733E+000
810	3	-6.463447E-004	-9.458269E-004	-2.280679E+000	-3.337426E+000
810	4	-5.835368E-004	-9.142442E-004	-2.059857E+000	-3.225973E+000
810	5	-6.155387E-004	-1.035844E-003	-2.171978E+000	-3.655059E+000
810	6	-6.463453E-004	-9.975911E-004	-2.280678E+000	-3.520086E+000
810	7	-6.155387E-004	-9.303374E-004	-2.171978E+000	-3.282766E+000
810	8	-5.835342E-004	-9.680272E-004	-2.059851E+000	-3.415763E+000
810	9	-6.155387E-004	-9.830899E-004	-2.171978E+000	-3.468915E+000
811	1	-5.576388E-004	-4.673898E-004	-1.967681E+000	-1.649230E+000
811	2	-6.385060E-004	-5.094862E-004	-2.253012E+000	-1.797481E+000
811	3	-6.385047E-004	-3.975203E-004	-2.253014E+000	-1.402674E+000
811	4	-5.576418E-004	-3.500325E-004	-1.967688E+000	-1.235113E+000
811	5	-5.990388E-004	-4.888979E-004	-2.113764E+000	-1.723128E+000
811	6	-6.385044E-004	-4.534607E-004	-2.253016E+000	-1.600071E+000
811	7	-5.990384E-004	-3.743427E-004	-2.113762E+000	-1.320902E+000
811	8	-5.576402E-004	-4.087128E-004	-1.967688E+000	-1.442173E+000
811	9	-5.990386E-004	-4.316225E-004	-2.113763E+000	-1.523013E+000
812	1	-5.151599E-004	-1.228180E-003	-1.817788E+000	-4.333732E+000
812	2	-1.328556E-004	-1.242276E-003	-4.687883E-001	-4.383468E+000
812	3	-1.328552E-004	-1.864184E-003	-4.687921E-001	-6.577926E+000
812	4	-5.151609E-004	-1.850092E-003	-1.817786E+000	-6.528199E+000
813	1	-2.245724E-004	-1.611481E-003	-3.056752E-002	-2.193763E+000
813	2	-5.157749E-004	-6.229331E-004	-1.820064E-001	-2.198144E+000
813	3	-5.157829E-004	-5.695599E-004	-1.820058E-001	-2.009812E+000
813	4	-1.641195E-003	-1.076596E-002	-3.057124E-002	-2.805122E+000
814	1	-4.342159E-003	-4.177369E-004	-1.532148E-002	-1.474257E-002
814	2	-6.309109E-003	-4.177820E-004	-2.226150E-002	-1.474199E-002
814	3	-6.308105E-003	-2.788201E-004	-2.226271E-002	-9.837167E-003
814	4	-4.341311E-003	-2.788111E-004	-1.531808E-002	-9.838798E-003
815	1	+2.225797E-003	-2.633377E-003	+7.850408E-003	-9.292443E-002
815	2	-2.054520E-003	-2.633349E-003	-7.250431E-003	-9.292388E-002
815	3	-2.056475E-003	-2.330891E-003	-7.251955E-003	-8.225164E-002
815	4	+2.225185E-003	-2.330943E-003	+7.854165E-003	-8.225138E-002
816	1	-5.223667E-004	-1.008990E-004	-1.843290E-001	-3.560412E-001
816	2	-1.176207E-002	-1.057664E-002	-3.959844E-002	-3.560427E-001
816	3	-1.163875E-002	-1.347912E-002	-3.959633E-002	-4.585129E-001
816	4	-5.223691E-004	-1.299374E-004	-1.843295E-001	-4.585128E-001
817	1	-1.910296E-003	+2.172009E-003	-6.746153E-003	+7.664418E-002
817	2	+1.206888E-002	+2.174795E-003	+4.258646E-002	+7.674281E-002

817	3	+1.206871E-002	+1.187076E-003	+4.258401E-002	+4.188795E-002
817	4	-1.911145E-003	+1.184164E-003	-6.744534E-003	+4.178894E-002
818	1	-7.956844E-002	-1.181359E-002	-2.807769E-001	-3.886364E-001
818	2	-6.508604E-002	-1.181358E-002	-2.296707E-001	-3.886372E-001
818	3	-6.508633E-002	-1.283692E-002	-2.296702E-001	-4.247461E-001
818	4	-7.956995E-002	-1.283691E-002	-2.807777E-001	-4.247472E-001
819	1	-1.066777E-001	-2.852994E-003	-3.764281E-001	-1.006735E-001
819	2	-9.871340E-002	-2.853031E-003	-3.280992E-001	-1.006748E-001
819	3	-9.871527E-002	-3.980985E-003	-3.281021E-001	-1.404762E-001
819	4	-1.066774E-001	-3.980943E-003	-3.764302E-001	-1.404775E-001
820	1	-1.022408E-002	+1.740096E-002	-3.607956E-002	+6.140298E-001
820	2	-8.511152E-002	+1.740103E-002	-3.003317E-001	+6.140305E-001
820	3	-8.511087E-002	+2.270295E-002	-3.003298E-001	+8.011193E-001
820	4	-1.022553E-002	+2.270293E-002	-3.608153E-002	+8.011212E-001
821	1	-5.880705E-002	-9.683030E-003	-2.075180E-001	-3.416856E-001
821	2	-5.613320E-002	-9.682458E-003	-1.980741E-001	-3.416661E-001
821	3	-5.613226E-002	-9.871840E-003	-1.980735E-001	-3.483481E-001
821	4	-5.880587E-002	-9.872333E-003	-2.075891E-001	-3.483668E-001
822	1	-4.398007E-002	-5.923256E-003	-1.551918E-001	-2.890143E-001
822	2	-4.312655E-002	-5.923232E-003	-1.521791E-001	-2.890129E-001
822	3	-4.312520E-002	-5.983725E-003	-1.521772E-001	-2.111479E-001
822	4	-4.398102E-002	-5.983745E-003	-1.551956E-001	-2.111486E-001
823	1	-4.605428E-002	-6.924308E-003	-1.625171E-001	-2.443377E-001
823	2	-4.476659E-002	-6.924332E-003	-1.579647E-001	-2.443383E-001
823	3	-4.476526E-002	-7.815354E-003	-1.579648E-001	-2.475550E-001
823	4	-4.605669E-002	-7.815437E-003	-1.625166E-001	-2.475539E-001
824	1	-4.887968E-002	-7.981813E-003	-1.724793E-001	-2.788313E-001
824	2	-4.715686E-002	-7.981821E-003	-1.664066E-001	-2.788320E-001
824	3	-4.715869E-002	-8.023436E-003	-1.664064E-001	-2.831234E-001
824	4	-4.887974E-002	-8.023465E-003	-1.724770E-001	-2.831243E-001
825	1	-5.396076E-002	-8.888358E-003	-1.904099E-001	-3.136434E-001
825	2	-5.070180E-002	-8.888347E-003	-1.789114E-001	-3.136443E-001
825	3	-5.070231E-002	-9.118597E-003	-1.789123E-001	-3.217689E-001
825	4	-5.396090E-002	-9.118550E-003	-1.904115E-001	-3.217680E-001
826	1	-4.259539E-002	-4.896976E-003	-1.503117E-001	-1.727991E-001
826	2	-4.200684E-002	-4.896784E-003	-1.482271E-001	-1.727962E-001
826	3	-4.200620E-002	-4.938538E-003	-1.482252E-001	-1.742682E-001
826	4	-4.259734E-002	-4.938704E-003	-1.503117E-001	-1.742721E-001
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919	4	-3.695774E-002	-5.395363E-003	-1.304130E-001	-1.903889E-001
920	1	-3.821304E-002	-6.570779E-003	-1.348434E-001	-2.318637E-001
920	2	-3.752265E-002	-6.570774E-003	-1.324074E-001	-2.318626E-001
920	3	-3.753215E-002	-6.646092E-003	-1.324406E-001	-2.345237E-001
920	4	-3.822339E-002	-6.646194E-003	-1.348814E-001	-2.345273E-001
921	1	-3.603401E-002	-4.136989E-003	-1.271542E-001	-1.459774E-001
921	2	-3.569513E-002	-4.136852E-003	-1.259563E-001	-1.459773E-001
921	3	-3.569883E-002	-4.173823E-003	-1.259691E-001	-1.472819E-001
921	4	-3.603740E-002	-4.173807E-003	-1.271649E-001	-1.472833E-001
922	1	-3.477821E-002	-5.454936E-004	-1.227195E-001	-1.924738E-002
922	2	-3.473888E-002	-5.455340E-004	-1.225827E-001	-1.925004E-002
922	3	-3.473805E-002	-5.497686E-004	-1.225832E-001	-1.939962E-002
922	4	-3.477821E-002	-5.497131E-004	-1.227247E-001	-1.939927E-002
923	1	-3.499595E-002	-1.748903E-003	-1.234917E-001	-6.171312E-002
923	2	-3.487926E-002	-1.748867E-003	-1.230791E-001	-6.171196E-002
923	3	-3.488007E-002	-1.761698E-003	-1.230814E-001	-6.216547E-002
923	4	-3.499784E-002	-1.761797E-003	-1.234954E-001	-6.216606E-002
924	1	-3.540231E-002	-2.942655E-003	-1.249263E-001	-1.038406E-001
924	2	-3.518496E-002	-2.942765E-003	-1.241561E-001	-1.038411E-001
924	3	-3.518652E-002	-2.966587E-003	-1.241624E-001	-1.046816E-001
924	4	-3.540509E-002	-2.966517E-003	-1.249312E-001	-1.046797E-001
925	1	-7.639954E-003	-2.473315E-002	-2.695639E-002	-8.727586E-001
925	2	-7.630991E-003	-2.473303E-002	-2.692658E-002	-8.727573E-001
925	3	-7.632147E-003	-2.473400E-002	-2.693078E-002	-8.727905E-001
925	4	-7.638916E-003	-2.473399E-002	-2.695620E-002	-8.727900E-001
926	1	-8.956134E-003	-2.416516E-002	-3.160083E-002	-8.527160E-001
926	2	-7.840760E-003	-2.416514E-002	-2.766794E-002	-8.527147E-001
926	3	-7.886216E-003	-2.428711E-002	-2.782974E-002	-8.570198E-001
926	4	-9.002179E-003	-2.428706E-002	-3.176773E-002	-8.570189E-001
927	1	-8.333627E-003	-2.554622E-002	-2.940822E-002	-9.014484E-001
927	2	-9.525191E-003	-2.554643E-002	-3.361376E-002	-9.014571E-001
927	3	-9.483703E-003	-2.541603E-002	-3.346625E-002	-8.968597E-001
927	4	-8.292641E-003	-2.541580E-002	-2.926035E-002	-8.968514E-001
928	1	-1.924024E-002	-2.801959E-002	-6.789038E-002	-9.887311E-001
928	2	-2.689201E-002	-2.801961E-002	-9.489456E-002	-9.887314E-001
928	3	-2.665458E-002	-2.718244E-002	-9.405553E-002	-9.591854E-001
928	4	-1.898518E-002	-2.718234E-002	-6.693002E-002	-9.591852E-001
929	1	-1.154625E-002	-2.675830E-002	-4.074337E-002	-9.442204E-001
929	2	-1.483837E-002	-2.675827E-002	-5.236293E-002	-9.442226E-001
929	3	-1.472445E-002	-2.639850E-002	-5.196116E-002	-9.315251E-001
929	4	-1.143356E-002	-2.639843E-002	-4.034809E-002	-9.315237E-001
930	1	-4.634313E-002	-2.195507E-002	-1.635304E-001	-7.747304E-001
930	2	-5.018727E-002	-2.195572E-002	-1.770935E-001	-7.747545E-001
930	3	-5.008545E-002	-2.153444E-002	-1.767356E-001	-7.598862E-001
930	4	-4.623583E-002	-2.153427E-002	-1.631541E-001	-7.598835E-001
931	1	-3.295250E-002	-2.692463E-002	-1.162793E-001	-9.500934E-001
931	2	-4.266977E-002	-2.692517E-002	-1.505695E-001	-9.501107E-001
931	3	-4.239019E-002	-2.586119E-002	-1.495830E-001	-9.125673E-001
931	4	-3.266109E-002	-2.585974E-002	-1.152532E-001	-9.125128E-001
932	1	-4.993307E-002	-1.674370E-002	-1.761988E-001	-5.908386E-001
932	2	-4.880546E-002	-1.674372E-002	-1.722195E-001	-5.908372E-001
932	3	-4.883217E-002	-1.686717E-002	-1.723146E-001	-5.951918E-001

932	4	-4.996219E-002	-1.686707E-002	-1.762995E-001	-5.951921E-001
933	1	-4.335584E-002	-1.119343E-002	-1.529898E-001	-3.949816E-001
933	2	-4.183569E-002	-1.119315E-002	-1.476259E-001	-3.949725E-001
933	3	-4.186721E-002	-1.135978E-002	-1.477384E-001	-4.008539E-001
933	4	-4.338842E-002	-1.135987E-002	-1.531057E-001	-4.008564E-001
934	1	-4.699942E-002	-1.337762E-002	-1.658464E-001	-4.720561E-001
934	2	-4.506150E-002	-1.337753E-002	-1.590895E-001	-4.720503E-001
934	3	-4.510540E-002	-1.358932E-002	-1.591617E-001	-4.795261E-001
934	4	-4.704227E-002	-1.358964E-002	-1.659987E-001	-4.795371E-001
935	1	-4.054300E-002	-9.496920E-003	-1.430640E-001	-3.351204E-001
935	2	-3.938307E-002	-9.496939E-003	-1.389739E-001	-3.351219E-001
935	3	-3.940370E-002	-9.623720E-003	-1.390451E-001	-3.395937E-001
935	4	-4.056469E-002	-9.623755E-003	-1.431409E-001	-3.395936E-001
936	1	-3.677926E-002	-6.699778E-003	-1.297821E-001	-2.364168E-001
936	2	-3.612801E-002	-6.699678E-003	-1.274855E-001	-2.364128E-001
936	3	-3.613779E-002	-6.770763E-003	-1.275195E-001	-2.389222E-001
936	4	-3.678892E-002	-6.770872E-003	-1.298156E-001	-2.389246E-001
937	1	-3.839295E-002	-8.035105E-003	-1.354780E-001	-2.835336E-001
937	2	-3.751128E-002	-8.035031E-003	-1.323669E-001	-2.835320E-001
937	3	-3.752529E-002	-8.131431E-003	-1.324172E-001	-2.869349E-001
937	4	-3.840803E-002	-8.131763E-003	-1.355338E-001	-2.869439E-001
938	1	-3.555970E-002	-5.433667E-003	-1.254836E-001	-1.917357E-001
938	2	-3.510770E-002	-5.433655E-003	-1.238849E-001	-1.917360E-001
938	3	-3.511358E-002	-5.483204E-003	-1.239055E-001	-1.934862E-001
938	4	-3.556709E-002	-5.483280E-003	-1.255056E-001	-1.934861E-001
939	1	-3.407769E-002	-2.983707E-003	-1.202491E-001	-1.052847E-001
939	2	-3.386252E-002	-2.983578E-003	-1.194914E-001	-1.052838E-001
939	3	-3.386318E-002	-3.007071E-003	-1.194945E-001	-1.061107E-001
939	4	-3.407985E-002	-3.007090E-003	-1.202561E-001	-1.061113E-001
940	1	-3.468696E-002	-4.200252E-003	-1.223973E-001	-1.482148E-001
940	2	-3.436344E-002	-4.200228E-003	-1.212595E-001	-1.482129E-001
940	3	-3.436581E-002	-4.235551E-003	-1.212689E-001	-1.494599E-001
940	4	-3.468965E-002	-4.235630E-003	-1.224094E-001	-1.494651E-001
941	1	-3.344630E-002	-5.531718E-004	-1.180202E-001	-1.952817E-002
941	2	-3.340155E-002	-5.531550E-004	-1.178641E-001	-1.951931E-002
941	3	-3.340068E-002	-5.580834E-004	-1.178626E-001	-1.969271E-002
941	4	-3.344583E-002	-5.580815E-004	-1.180212E-001	-1.969201E-002
942	1	-3.367240E-002	-1.771296E-003	-1.188183E-001	-6.250214E-002
942	2	-3.355238E-002	-1.771217E-003	-1.183951E-001	-6.250227E-002
942	3	-3.355192E-002	-1.784472E-003	-1.183947E-001	-6.297075E-002
942	4	-3.367316E-002	-1.784524E-003	-1.188204E-001	-6.297148E-002
943	1	-9.113550E-003	-2.436766E-002	-3.215742E-002	-8.598639E-001
943	2	-8.216456E-003	-2.436767E-002	-2.899477E-002	-8.598644E-001
943	3	-8.252554E-003	-2.446588E-002	-2.911991E-002	-8.633336E-001
943	4	-9.150535E-003	-2.446589E-002	-3.228819E-002	-8.633314E-001
944	1	-9.138390E-003	-2.530857E-002	-3.224808E-002	-8.930641E-001
944	2	-1.062874E-002	-2.530883E-002	-3.758406E-002	-8.930721E-001
944	3	-1.057374E-002	-2.514508E-002	-3.731130E-002	-8.872941E-001
944	4	-9.883009E-003	-2.514499E-002	-3.204902E-002	-8.872904E-001
945	1	-8.100321E-003	-2.472573E-002	-2.858135E-002	-8.724999E-001
945	2	-8.312837E-003	-2.472573E-002	-2.933437E-002	-8.724982E-001
945	3	-8.304946E-003	-2.470244E-002	-2.930374E-002	-8.716756E-001
945	4	-8.091230E-003	-2.470236E-002	-2.855385E-002	-8.716741E-001
946	1	-1.274261E-002	-2.612517E-002	-4.496180E-002	-9.218802E-001
946	2	-1.628133E-002	-2.612515E-002	-5.745244E-002	-9.218788E-001
946	3	-1.616364E-002	-2.573708E-002	-5.703877E-002	-9.081894E-001
946	4	-1.261639E-002	-2.573720E-002	-4.452183E-002	-9.081897E-001
947	1	-3.125690E-002	-2.517770E-002	-1.102955E-001	-8.804481E-001
947	2	-3.852062E-002	-2.517898E-002	-1.359380E-001	-8.804889E-001
947	3	-3.831251E-002	-2.438898E-002	-1.351935E-001	-8.603309E-001

947	4	-3.103893E-002	-2.438872E-002	-1.095296E-001	-8.603226E-001
948	1	-2.010914E-002	-2.661351E-002	-7.895739E-002	-9.391139E-001
948	2	-2.661888E-002	-2.661392E-002	-9.392893E-002	-9.391265E-001
948	3	-2.641790E-002	-2.589954E-002	-9.322189E-002	-9.139187E-001
948	4	-1.990005E-002	-2.589863E-002	-7.022405E-002	-9.138861E-001
949	1	-4.369895E-002	-1.371734E-002	-1.542008E-001	-4.840462E-001
949	2	-4.242877E-002	-1.371711E-002	-1.497221E-001	-4.840375E-001
949	3	-4.246023E-002	-1.385638E-002	-1.498274E-001	-4.889529E-001
949	4	-4.373217E-002	-1.385648E-002	-1.543166E-001	-4.889556E-001
950	1	-4.511508E-002	-1.691801E-002	-1.591985E-001	-5.969849E-001
950	2	-4.497834E-002	-1.691793E-002	-1.587195E-001	-5.969864E-001
950	3	-4.498184E-002	-1.693286E-002	-1.587290E-001	-5.975147E-001
950	4	-4.512008E-002	-1.693297E-002	-1.592151E-001	-5.975145E-001
951	1	-4.144469E-002	-2.124023E-002	-1.462438E-001	-7.495061E-001
951	2	-4.492914E-002	-2.124041E-002	-1.585415E-001	-7.495117E-001
951	3	-4.483442E-002	-2.085824E-002	-1.582097E-001	-7.360258E-001
951	4	-4.134732E-002	-2.085766E-002	-1.458999E-001	-7.360054E-001
952	1	-4.105448E-002	-1.147058E-002	-1.448723E-001	-4.847625E-001
952	2	-3.981500E-002	-1.147057E-002	-1.404948E-001	-4.847629E-001
952	3	-3.984081E-002	-1.160650E-002	-1.405869E-001	-4.895590E-001
952	4	-4.108254E-002	-1.160641E-002	-1.449692E-001	-4.895587E-001
953	1	-3.676288E-002	-8.198011E-003	-1.297227E-001	-2.892843E-001
953	2	-3.598238E-002	-8.197863E-003	-1.269789E-001	-2.892792E-001
953	3	-3.599577E-002	-8.283519E-003	-1.270177E-001	-2.923011E-001
953	4	-3.677522E-002	-8.283441E-003	-1.297694E-001	-2.922996E-001
954	1	-3.866813E-002	-9.710636E-003	-1.364480E-001	-3.426577E-001
954	2	-3.766414E-002	-9.710492E-003	-1.329046E-001	-3.426581E-001
954	3	-3.768323E-002	-9.820721E-003	-1.329744E-001	-3.465429E-001
954	4	-3.868816E-002	-9.820946E-003	-1.365169E-001	-3.465514E-001
955	1	-3.331960E-002	-4.260883E-003	-1.175749E-001	-1.503551E-001
955	2	-3.300635E-002	-4.260854E-003	-1.164699E-001	-1.503515E-001
955	3	-3.300891E-002	-4.295152E-003	-1.164812E-001	-1.515621E-001
955	4	-3.332322E-002	-4.295174E-003	-1.175865E-001	-1.515644E-001
956	1	-3.415826E-002	-5.519279E-003	-1.205314E-001	-1.947591E-001
956	2	-3.371224E-002	-5.519302E-003	-1.189618E-001	-1.947597E-001
956	3	-3.371803E-002	-5.568177E-003	-1.189793E-001	-1.964839E-001
956	4	-3.416253E-002	-5.568214E-003	-1.205500E-001	-1.964845E-001
957	1	-3.527534E-002	-6.820660E-003	-1.244788E-001	-2.406836E-001
957	2	-3.468174E-002	-6.820673E-003	-1.223781E-001	-2.406802E-001
957	3	-3.468838E-002	-6.885861E-003	-1.224042E-001	-2.429814E-001
957	4	-3.528458E-002	-6.885910E-003	-1.245077E-001	-2.429852E-001
958	1	-3.232868E-002	-1.793935E-003	-1.140764E-001	-6.330174E-002
958	2	-3.228629E-002	-1.793875E-003	-1.136466E-001	-6.330028E-002
958	3	-3.228703E-002	-1.807165E-003	-1.136518E-001	-6.376955E-002
958	4	-3.232839E-002	-1.807288E-003	-1.140749E-001	-6.377202E-002
959	1	-3.272442E-002	-3.024084E-003	-1.154778E-001	-1.067106E-001
959	2	-3.251702E-002	-3.024158E-003	-1.147432E-001	-1.067141E-001
959	3	-3.251832E-002	-3.047011E-003	-1.147446E-001	-1.075191E-001
959	4	-3.272655E-002	-3.047109E-003	-1.154817E-001	-1.075231E-001
960	1	-3.209697E-002	-5.617878E-004	-1.132612E-001	-1.982694E-002
960	2	-3.204804E-002	-5.618601E-004	-1.130873E-001	-1.982576E-002
960	3	-3.204856E-002	-5.672220E-004	-1.130889E-001	-2.001643E-002
960	4	-3.209658E-002	-5.672167E-004	-1.132599E-001	-2.001751E-002
961	1	-8.408505E-003	-2.467954E-002	-2.966907E-002	-8.708695E-001
961	2	-8.764326E-003	-2.467962E-002	-3.092232E-002	-8.708705E-001
961	3	-8.749978E-003	-2.464855E-002	-3.087820E-002	-8.694918E-001
961	4	-8.394239E-003	-2.464043E-002	-2.962353E-002	-8.694938E-001
962	1	-8.874029E-003	-2.452116E-002	-3.131413E-002	-8.652811E-001
962	2	-8.397810E-003	-2.452115E-002	-2.963230E-002	-8.652798E-001
962	3	-8.414872E-003	-2.457372E-002	-2.969667E-002	-8.671323E-001

962	4	-8.892924E-003	-2.457360E-002	-3.137887E-002	-8.671322E-001
963	1	-9.649486E-003	-2.501432E-002	-3.405893E-002	-8.826813E-001
963	2	-1.141387E-002	-2.501427E-002	-4.027474E-002	-8.826820E-001
963	3	-1.135063E-002	-2.482055E-002	-4.005551E-002	-8.758450E-001
963	4	-9.586192E-003	-2.482059E-002	-3.382722E-002	-8.758462E-001
964	1	-2.028258E-002	-2.541557E-002	-7.157212E-002	-8.968408E-001
964	2	-2.577903E-002	-2.541658E-002	-9.096865E-002	-8.968734E-001
964	3	-2.561082E-002	-2.481158E-002	-9.037132E-002	-8.755256E-001
964	4	-2.010773E-002	-2.481138E-002	-7.095318E-002	-8.755202E-001
965	1	-1.348515E-002	-2.545329E-002	-4.758315E-002	-8.981702E-001
965	2	-1.699912E-002	-2.545340E-002	-5.998366E-002	-8.981755E-001
965	3	-1.688433E-002	-2.586700E-002	-5.958153E-002	-8.845404E-001
965	4	-1.336447E-002	-2.586643E-002	-4.715813E-002	-8.845196E-001
966	1	-3.749811E-002	-2.059151E-002	-1.323204E-001	-7.266126E-001
966	2	-4.061126E-002	-2.059201E-002	-1.433094E-001	-7.266304E-001
966	3	-4.052959E-002	-2.024930E-002	-1.430141E-001	-7.145383E-001
966	4	-3.741148E-002	-2.024917E-002	-1.320187E-001	-7.145354E-001
967	1	-2.944598E-002	-2.386014E-002	-1.039064E-001	-8.419548E-001
967	2	-3.512740E-002	-2.386036E-002	-1.239527E-001	-8.419611E-001
967	3	-3.496258E-002	-2.323572E-002	-1.233762E-001	-8.199220E-001
967	4	-2.927594E-002	-2.323482E-002	-1.033049E-001	-8.198885E-001
968	1	-4.100835E-002	-1.692383E-002	-1.447028E-001	-5.971915E-001
968	2	-4.137214E-002	-1.692383E-002	-1.459884E-001	-5.971915E-001
968	3	-4.136351E-002	-1.688378E-002	-1.459689E-001	-5.957780E-001
968	4	-4.099899E-002	-1.688376E-002	-1.446717E-001	-5.957775E-001
969	1	-3.676734E-002	-9.895946E-003	-1.297440E-001	-3.491958E-001
969	2	-3.589897E-002	-9.895770E-003	-1.266758E-001	-3.491931E-001
969	3	-3.591392E-002	-9.991391E-003	-1.267300E-001	-3.525665E-001
969	4	-3.678369E-002	-9.991424E-003	-1.297991E-001	-3.525665E-001
970	1	-3.870078E-002	-1.169498E-002	-1.365643E-001	-4.126819E-001
970	2	-3.773584E-002	-1.169500E-002	-1.331601E-001	-4.126835E-001
970	3	-3.775521E-002	-1.180135E-002	-1.332279E-001	-4.164335E-001
970	4	-3.872069E-002	-1.180125E-002	-1.366343E-001	-4.164328E-001
971	1	-4.060532E-002	-1.394080E-002	-1.432866E-001	-4.918993E-001
971	2	-3.980238E-002	-1.393983E-002	-1.404500E-001	-4.918970E-001
971	3	-3.981078E-002	-1.402824E-002	-1.405110E-001	-4.950147E-001
971	4	-4.062423E-002	-1.402830E-002	-1.433480E-001	-4.950160E-001
972	1	-3.374987E-002	-6.931331E-003	-1.190944E-001	-2.445871E-001
972	2	-3.320789E-002	-6.931250E-003	-1.171823E-001	-2.445866E-001
972	3	-3.321563E-002	-6.990936E-003	-1.172077E-001	-2.466903E-001
972	4	-3.375738E-002	-6.990891E-003	-1.191242E-001	-2.466876E-001
973	1	-3.509345E-002	-8.343211E-003	-1.238361E-001	-2.944077E-001
973	2	-3.438860E-002	-8.343218E-003	-1.213474E-001	-2.944077E-001
973	3	-3.439866E-002	-8.420739E-003	-1.213794E-001	-2.971415E-001
973	4	-3.510385E-002	-8.420814E-003	-1.238737E-001	-2.971450E-001
974	1	-3.269386E-002	-5.601822E-003	-1.153672E-001	-1.976724E-001
974	2	-3.230167E-002	-5.601756E-003	-1.139841E-001	-1.976714E-001
974	3	-3.230795E-002	-5.644892E-003	-1.140016E-001	-1.991925E-001
974	4	-3.269948E-002	-5.644896E-003	-1.153870E-001	-1.991938E-001
975	1	-3.134308E-002	-3.062561E-003	-1.106019E-001	-1.088683E-001
975	2	-3.115911E-002	-3.062519E-003	-1.099512E-001	-1.088675E-001
975	3	-3.116058E-002	-3.082799E-003	-1.099578E-001	-1.087834E-001
975	4	-3.134478E-002	-3.082891E-003	-1.106073E-001	-1.087846E-001
976	1	-3.191331E-002	-4.319064E-003	-1.126117E-001	-1.524074E-001
976	2	-3.162988E-002	-4.319048E-003	-1.116182E-001	-1.524070E-001
976	3	-3.163295E-002	-4.350237E-003	-1.116249E-001	-1.535073E-001
976	4	-3.191670E-002	-4.350308E-003	-1.126232E-001	-1.535079E-001
977	1	-3.073455E-002	-5.711843E-004	-1.084531E-001	-2.015608E-002
977	2	-3.068425E-002	-5.711688E-004	-1.082758E-001	-2.015649E-002
977	3	-3.068505E-002	-5.766565E-004	-1.082767E-001	-2.035086E-002

977	4	-3.073426E-002	-5.766901E-004	-1.084555E-001	-2.835047E-002
978	1	-3.035695E-002	-1.816709E-003	-1.092384E-001	-6.410538E-002
978	2	-3.084107E-002	-1.816737E-003	-1.088302E-001	-6.410520E-002
978	3	-3.084255E-002	-1.829314E-003	-1.088330E-001	-6.455480E-002
978	4	-3.095821E-002	-1.829488E-003	-1.092388E-001	-6.455649E-002
979	1	-9.218395E-003	-2.462684E-002	-3.252709E-002	-8.690084E-001
979	2	-8.378811E-003	-2.462663E-002	-2.956828E-002	-8.690846E-001
979	3	-8.412644E-003	-2.471917E-002	-2.968481E-002	-8.722678E-001
979	4	-9.252916E-003	-2.471918E-002	-3.264630E-002	-8.722644E-001
980	1	-8.301198E-003	-2.459996E-002	-2.929175E-002	-8.680595E-001
980	2	-8.954931E-003	-2.459992E-002	-3.159934E-002	-8.680614E-001
980	3	-8.928543E-003	-2.452794E-002	-3.150738E-002	-8.655181E-001
980	4	-8.275225E-003	-2.452797E-002	-2.920106E-002	-8.655166E-001
981	1	-1.384423E-002	-2.478989E-002	-4.885273E-002	-8.747597E-001
981	2	-1.719281E-002	-2.479843E-002	-6.866968E-002	-8.747796E-001
981	3	-1.707469E-002	-2.442109E-002	-6.825467E-002	-8.617484E-001
981	4	-1.372291E-002	-2.442105E-002	-4.842502E-002	-8.617453E-001
982	1	-9.931409E-003	-2.467125E-002	-3.504386E-002	-8.705775E-001
982	2	-1.187095E-002	-2.467136E-002	-4.188935E-002	-8.705795E-001
982	3	-1.179937E-002	-2.445766E-002	-4.163774E-002	-8.630385E-001
982	4	-9.856106E-003	-2.445731E-002	-3.477899E-002	-8.630240E-001
983	1	-2.881236E-002	-2.440131E-002	-7.861633E-002	-8.610510E-001
983	2	-2.469739E-002	-2.440135E-002	-8.715361E-002	-8.610520E-001
983	3	-2.454208E-002	-2.388551E-002	-8.660286E-002	-8.428496E-001
983	4	-1.985315E-002	-2.388552E-002	-7.885788E-002	-8.428508E-001
984	1	-2.762896E-002	-2.282031E-002	-9.749383E-002	-8.852609E-001
984	2	-3.222782E-002	-2.282115E-002	-1.137235E-001	-8.852928E-001
984	3	-3.209280E-002	-2.231383E-002	-1.132487E-001	-7.873896E-001
984	4	-2.748138E-002	-2.231286E-002	-9.697766E-002	-7.873559E-001
985	1	-3.419315E-002	-2.001292E-002	-1.206552E-001	-7.061980E-001
985	2	-3.694519E-002	-2.001296E-002	-1.303702E-001	-7.061993E-001
985	3	-3.687039E-002	-1.970996E-002	-1.301044E-001	-6.955062E-001
985	4	-3.411525E-002	-1.970995E-002	-1.203842E-001	-6.955070E-001
986	1	-3.762847E-002	-1.487682E-002	-1.327801E-001	-4.967308E-001
986	2	-3.720745E-002	-1.487671E-002	-1.312968E-001	-4.967293E-001
986	3	-3.721725E-002	-1.412314E-002	-1.313282E-001	-4.983646E-001
986	4	-3.763879E-002	-1.412315E-002	-1.328148E-001	-4.983674E-001
987	1	-3.744525E-002	-1.684104E-002	-1.321385E-001	-5.942726E-001
987	2	-3.813915E-002	-1.684107E-002	-1.345799E-001	-5.942714E-001
987	3	-3.812156E-002	-1.676462E-002	-1.345223E-001	-5.915748E-001
987	4	-3.742734E-002	-1.676440E-002	-1.320679E-001	-5.915673E-001
988	1	-3.638257E-002	-1.186948E-002	-1.283824E-001	-4.188404E-001
988	2	-3.565899E-002	-1.186944E-002	-1.258322E-001	-4.188409E-001
988	3	-3.567459E-002	-1.194924E-002	-1.258848E-001	-4.216533E-001
988	4	-3.639749E-002	-1.194914E-002	-1.284333E-001	-4.216519E-001
989	1	-3.337878E-002	-8.472938E-003	-1.177799E-001	-2.989849E-001
989	2	-3.278256E-002	-8.472784E-003	-1.156781E-001	-2.989815E-001
989	3	-3.279236E-002	-8.538347E-003	-1.157129E-001	-3.012952E-001
989	4	-3.338756E-002	-8.538438E-003	-1.178174E-001	-3.012987E-001
990	1	-3.480597E-002	-1.805437E-002	-1.228199E-001	-3.547903E-001
990	2	-3.411132E-002	-1.805434E-002	-1.203692E-001	-3.547871E-001
990	3	-3.412476E-002	-1.813078E-002	-1.204166E-001	-3.574858E-001
990	4	-3.481942E-002	-1.813093E-002	-1.228680E-001	-3.574917E-001
991	1	-3.849211E-002	-4.372412E-003	-1.075932E-001	-1.542901E-001
991	2	-3.821663E-002	-4.372452E-003	-1.066254E-001	-1.542922E-001
991	3	-3.822817E-002	-4.402672E-003	-1.066357E-001	-1.553569E-001
991	4	-3.849363E-002	-4.402773E-003	-1.076039E-001	-1.553590E-001
992	1	-3.122691E-002	-5.675774E-003	-1.101927E-001	-2.002830E-001
992	2	-3.084973E-002	-5.675765E-003	-1.088572E-001	-2.002830E-001
992	3	-3.085460E-002	-5.717453E-003	-1.088753E-001	-2.017526E-001

992	4	-3.123966E-002	-5.717446E-003	-1.102864E-001	-2.017524E-001
993	1	-3.217499E-002	-7.032114E-003	-1.135345E-001	-2.481441E-001
993	2	-3.169123E-002	-7.032169E-003	-1.118388E-001	-2.481434E-001
993	3	-3.169724E-002	-7.085365E-003	-1.118496E-001	-2.500224E-001
993	4	-3.218263E-002	-7.085451E-003	-1.135598E-001	-2.500245E-001
994	1	-2.950188E-002	-1.838719E-003	-1.043856E-001	-6.488233E-002
994	2	-2.946274E-002	-1.838594E-003	-1.039635E-001	-6.487730E-002
994	3	-2.946284E-002	-1.851691E-003	-1.039648E-001	-6.534424E-002
994	4	-2.950226E-002	-1.851728E-003	-1.043848E-001	-6.534464E-002
995	1	-2.995254E-002	-3.897874E-003	-1.056917E-001	-1.893156E-001
995	2	-2.976387E-002	-3.897830E-003	-1.050282E-001	-1.893130E-001
995	3	-2.976548E-002	-3.118808E-003	-1.050333E-001	-1.180530E-001
995	4	-2.995383E-002	-3.118813E-003	-1.057001E-001	-1.180530E-001
996	1	-2.934924E-002	-5.810437E-004	-1.035657E-001	-2.050454E-002
996	2	-2.929341E-002	-5.810184E-004	-1.033667E-001	-2.050126E-002
996	3	-2.929319E-002	-5.871719E-004	-1.033663E-001	-2.071820E-002
996	4	-2.934910E-002	-5.871397E-004	-1.035642E-001	-2.071918E-002
997	1	-9.189725E-003	-2.479927E-002	-3.242362E-002	-8.750931E-001
997	2	-8.041471E-003	-2.479932E-002	-2.837589E-002	-8.750935E-001
997	3	-8.088559E-003	-2.492597E-002	-2.854273E-002	-8.795613E-001
997	4	-9.238362E-003	-2.492591E-002	-3.259683E-002	-8.795613E-001
998	1	-9.975356E-003	-2.429575E-002	-3.519863E-002	-8.573279E-001
998	2	-1.283364E-002	-2.429607E-002	-4.246489E-002	-8.573387E-001
998	3	-1.196217E-002	-2.406876E-002	-4.220792E-002	-8.493153E-001
998	4	-9.900868E-003	-2.406857E-002	-3.494000E-002	-8.493096E-001
999	1	-7.872162E-003	-2.446001E-002	-2.777995E-002	-8.631223E-001
999	2	-8.901096E-003	-2.446003E-002	-3.140915E-002	-8.631256E-001
999	3	-8.862523E-003	-2.434620E-002	-3.127551E-002	-8.591895E-001
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1000	1	-1.388772E-002	-2.415991E-002	-4.980359E-002	-8.525335E-001
1000	2	-1.700693E-002	-2.415989E-002	-6.001309E-002	-8.525312E-001
1000	3	-1.698497E-002	-2.381567E-002	-5.965234E-002	-8.403842E-001
1000	4	-1.378166E-002	-2.381557E-002	-4.863243E-002	-8.403829E-001
1001	1	-2.586418E-002	-2.197170E-002	-9.127019E-002	-7.753156E-001
1001	2	-2.969261E-002	-2.197232E-002	-1.047734E-001	-7.753393E-001
1001	3	-2.957369E-002	-2.154922E-002	-1.043588E-001	-7.604079E-001
1001	4	-2.574811E-002	-2.154989E-002	-9.885751E-002	-7.604042E-001
1002	1	-1.943317E-002	-2.353488E-002	-6.857247E-002	-8.304753E-001
1002	2	-2.343595E-002	-2.353503E-002	-8.269660E-002	-8.304788E-001
1002	3	-2.331185E-002	-2.389312E-002	-8.225637E-002	-8.148897E-001
1002	4	-1.930282E-002	-2.389254E-002	-6.811340E-002	-8.148657E-001
1003	1	-3.428736E-002	-1.670893E-002	-1.209902E-001	-5.893260E-001
1003	2	-3.515293E-002	-1.670104E-002	-1.240429E-001	-5.893264E-001
1003	3	-3.513872E-002	-1.668535E-002	-1.239650E-001	-5.859541E-001
1003	4	-3.426471E-002	-1.668528E-002	-1.209104E-001	-5.859501E-001
1004	1	-3.131529E-002	-1.949899E-002	-1.185062E-001	-6.880649E-001
1004	2	-3.378881E-002	-1.949910E-002	-1.192314E-001	-6.880669E-001
1004	3	-3.371724E-002	-1.922614E-002	-1.189805E-001	-6.784363E-001
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1005	1	-3.285322E-002	-1.018125E-002	-1.159294E-001	-3.592649E-001
1005	2	-3.229574E-002	-1.018098E-002	-1.139591E-001	-3.592583E-001
1005	3	-3.230516E-002	-1.024283E-002	-1.139971E-001	-3.614386E-001
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1006	1	-3.406643E-002	-1.199823E-002	-1.202188E-001	-4.233836E-001
1006	2	-3.357366E-002	-1.199822E-002	-1.184696E-001	-4.233820E-001
1006	3	-3.358327E-002	-1.205278E-002	-1.185047E-001	-4.253869E-001
1006	4	-3.407720E-002	-1.205283E-002	-1.202482E-001	-4.253866E-001
1007	1	-3.485708E-002	-1.414533E-002	-1.229989E-001	-4.991502E-001
1007	2	-1.472953E-002	-1.414533E-002	-1.225483E-001	-4.991476E-001
1007	3	-3.473182E-002	-1.415949E-002	-1.225579E-001	-4.996488E-001

1007	4	-3.486056E-002	-1.415955E-002	-1.230188E-001	-4.996477E-001
1008	1	-3.058166E-002	-7.121728E-003	-1.079158E-001	-2.513058E-001
1008	2	-3.015611E-002	-7.121755E-003	-1.064125E-001	-2.513052E-001
1008	3	-3.016223E-002	-7.168842E-003	-1.064337E-001	-2.529650E-001
1008	4	-3.058869E-002	-7.168884E-003	-1.079356E-001	-2.529685E-001
1009	1	-3.163990E-002	-8.582838E-003	-1.116491E-001	-3.028625E-001
1009	2	-3.113624E-002	-8.582748E-003	-1.098705E-001	-3.028619E-001
1009	3	-3.114495E-002	-8.638448E-003	-1.099832E-001	-3.048232E-001
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1010	1	-2.853736E-002	-3.133269E-003	-1.086992E-001	-1.185632E-001
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1010	3	-2.836258E-002	-3.152697E-003	-1.080812E-001	-1.112497E-001
1010	4	-2.853895E-002	-3.152699E-003	-1.087041E-001	-1.112484E-001
1011	1	-2.904118E-002	-4.423966E-003	-1.024823E-001	-1.561072E-001
1011	2	-2.878897E-002	-4.423938E-003	-1.015801E-001	-1.561062E-001
1011	3	-2.879158E-002	-4.451714E-003	-1.015958E-001	-1.570897E-001
1011	4	-2.904358E-002	-4.451752E-003	-1.024842E-001	-1.570890E-001
1012	1	-2.972335E-002	-5.746511E-003	-1.048823E-001	-2.027796E-001
1012	2	-2.938048E-002	-5.746491E-003	-1.036733E-001	-2.027766E-001
1012	3	-2.938346E-002	-5.784317E-003	-1.036847E-001	-2.041114E-001
1012	4	-2.972613E-002	-5.784396E-003	-1.048979E-001	-2.041132E-001
1013	1	-2.795159E-002	-5.920412E-004	-9.862830E-002	-2.088987E-002
1013	2	-2.787832E-002	-5.920780E-004	-9.837289E-002	-2.089847E-002
1013	3	-2.787833E-002	-5.999775E-004	-9.837598E-002	-2.117076E-002
1013	4	-2.795112E-002	-6.000101E-004	-9.863083E-002	-2.117245E-002
1014	1	-2.818371E-002	-1.861411E-003	-9.945103E-002	-6.568284E-002
1014	2	-2.806656E-002	-1.861254E-003	-9.903925E-002	-6.568077E-002
1014	3	-2.806682E-002	-1.874274E-003	-9.904003E-002	-6.613733E-002
1014	4	-2.818315E-002	-1.874251E-003	-9.944943E-002	-6.613653E-002
1015	1	-6.834485E-003	-2.422914E-002	-2.411769E-002	-8.549759E-001
1015	2	-8.683895E-003	-2.422951E-002	-3.064184E-002	-8.549872E-001
1015	3	-8.611424E-003	-2.402458E-002	-3.039015E-002	-8.477569E-001
1015	4	-6.761950E-003	-2.402439E-002	-2.386263E-002	-8.477507E-001
1016	1	-9.014338E-003	-2.504854E-002	-3.198798E-002	-8.838894E-001
1016	2	-7.132299E-003	-2.504862E-002	-2.516827E-002	-8.838911E-001
1016	3	-7.207014E-003	-2.525712E-002	-2.543026E-002	-8.912462E-001
1016	4	-9.093553E-003	-2.525740E-002	-3.208554E-002	-8.912586E-001
1017	1	-9.975723E-003	-2.398586E-002	-3.520113E-002	-8.435379E-001
1017	2	-1.196237E-002	-2.398581E-002	-4.220968E-002	-8.435377E-001
1017	3	-1.188910E-002	-2.368535E-002	-4.195155E-002	-8.357858E-001
1017	4	-9.899798E-003	-2.368538E-002	-3.493228E-002	-8.357877E-001
1018	1	-1.865704E-002	-2.279845E-002	-6.583479E-002	-8.842056E-001
1018	2	-2.211596E-002	-2.279892E-002	-7.804252E-002	-8.842219E-001
1018	3	-2.208843E-002	-2.240772E-002	-7.766232E-002	-7.907044E-001
1018	4	-1.854638E-002	-2.240768E-002	-6.544165E-002	-7.907012E-001
1019	1	-1.364585E-002	-2.357178E-002	-4.815122E-002	-8.317767E-001
1019	2	-1.655814E-002	-2.357186E-002	-5.843012E-002	-8.317813E-001
1019	3	-1.646060E-002	-2.324917E-002	-5.808491E-002	-8.203953E-001
1019	4	-1.354120E-002	-2.324866E-002	-4.778227E-002	-8.203768E-001
1020	1	-2.877821E-002	-1.903731E-002	-1.015476E-001	-6.717708E-001
1020	2	-3.094997E-002	-1.903773E-002	-1.092140E-001	-6.717852E-001
1020	3	-3.089167E-002	-1.879723E-002	-1.090075E-001	-6.633813E-001
1020	4	-2.871683E-002	-1.879714E-002	-1.013333E-001	-6.632945E-001
1021	1	-2.414711E-002	-2.126365E-002	-8.520813E-002	-7.583318E-001
1021	2	-2.737773E-002	-2.126379E-002	-9.660833E-002	-7.583380E-001
1021	3	-2.728448E-002	-2.090646E-002	-9.627807E-002	-7.377247E-001
1021	4	-2.404838E-002	-2.090586E-002	-8.486260E-002	-7.377062E-001
1022	1	-3.148584E-002	-1.653248E-002	-1.110998E-001	-5.833814E-001
1022	2	-3.241385E-002	-1.653243E-002	-1.143792E-001	-5.833831E-001
1022	3	-3.239160E-002	-1.642955E-002	-1.143819E-001	-5.797500E-001

1022	4	-3.146000E-002	-1.642958E-002	-1.110159E-001	-5.797508E-001
1023	1	-3.225593E-002	-1.416119E-002	-1.138195E-001	-4.997076E-001
1023	2	-3.232704E-002	-1.416121E-002	-1.140763E-001	-4.997080E-001
1023	3	-3.232665E-002	-1.415322E-002	-1.140710E-001	-4.994267E-001
1023	4	-3.225411E-002	-1.415322E-002	-1.138168E-001	-4.994273E-001
1024	1	-3.181959E-002	-1.208536E-002	-1.122793E-001	-4.264553E-001
1024	2	-3.150676E-002	-1.208536E-002	-1.111773E-001	-4.264553E-001
1024	3	-3.151432E-002	-1.211981E-002	-1.112045E-001	-4.276704E-001
1024	4	-3.182683E-002	-1.211980E-002	-1.123050E-001	-4.276711E-001
1025	1	-2.990401E-002	-8.676491E-003	-1.055180E-001	-3.861670E-001
1025	2	-2.946034E-002	-8.676297E-003	-1.039570E-001	-3.861634E-001
1025	3	-2.946644E-002	-8.725520E-003	-1.039786E-001	-3.878958E-001
1025	4	-2.990965E-002	-8.725503E-003	-1.055450E-001	-3.878985E-001
1026	1	-3.089979E-002	-1.028310E-002	-1.090358E-001	-3.628631E-001
1026	2	-3.046264E-002	-1.028307E-002	-1.074942E-001	-3.628609E-001
1026	3	-3.046918E-002	-1.033158E-002	-1.075185E-001	-3.645725E-001
1026	4	-3.090902E-002	-1.033176E-002	-1.090678E-001	-3.645757E-001
1027	1	-2.818462E-002	-5.809912E-003	-9.945505E-002	-2.050128E-001
1027	2	-2.788978E-002	-5.809752E-003	-9.841801E-002	-2.050109E-001
1027	3	-2.789378E-002	-5.842468E-003	-9.842694E-002	-2.061642E-001
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1028	1	-2.897201E-002	-7.200909E-003	-1.022345E-001	-2.548992E-001
1028	2	-2.860675E-002	-7.200856E-003	-1.009423E-001	-2.548974E-001
1028	3	-2.861006E-002	-7.241473E-003	-1.009609E-001	-2.555326E-001
1028	4	-2.897786E-002	-7.241538E-003	-1.022565E-001	-2.555319E-001
1029	1	-2.757480E-002	-4.471419E-003	-9.738060E-002	-1.577835E-001
1029	2	-2.734135E-002	-4.471347E-003	-9.647932E-002	-1.577827E-001
1029	3	-2.734504E-002	-4.496946E-003	-9.649214E-002	-1.586860E-001
1029	4	-2.757669E-002	-4.496925E-003	-9.738744E-002	-1.586865E-001
1030	1	-2.676978E-002	-1.882885E-003	-9.446367E-002	-6.644382E-002
1030	2	-2.666728E-002	-1.882959E-003	-9.409375E-002	-6.644230E-002
1030	3	-2.666638E-002	-1.894312E-003	-9.409932E-002	-6.684750E-002
1030	4	-2.677016E-002	-1.894456E-003	-9.446307E-002	-6.684870E-002
1031	1	-2.718216E-002	-3.166354E-003	-9.563556E-002	-1.117331E-001
1031	2	-2.693813E-002	-3.166374E-003	-9.505705E-002	-1.117342E-001
1031	3	-2.693953E-002	-3.184333E-003	-9.506403E-002	-1.123673E-001
1031	4	-2.718328E-002	-3.184440E-003	-9.563529E-002	-1.123707E-001
1032	1	-2.654165E-002	-6.872204E-004	-9.365953E-002	-2.142729E-002
1032	2	-2.643563E-002	-6.872752E-004	-9.328201E-002	-2.142667E-002
1032	3	-2.643573E-002	-6.191199E-004	-9.328130E-002	-2.184319E-002
1032	4	-2.654236E-002	-6.190243E-004	-9.365813E-002	-2.184368E-002
1033	1	-1.387487E-003	-2.505372E-002	-4.614115E-003	-8.840729E-001
1033	2	-4.883330E-003	-2.505419E-002	-1.723066E-002	-8.840917E-001
1033	3	-4.882246E-003	-2.429275E-002	-1.722914E-002	-8.572193E-001
1033	4	-1.387368E-003	-2.429259E-002	-4.613936E-003	-8.572131E-001
1034	1	-6.689771E-003	-2.384387E-002	-2.360564E-002	-8.413831E-001
1034	2	-8.047728E-003	-2.384398E-002	-2.839883E-002	-8.413813E-001
1034	3	-8.047811E-003	-2.355536E-002	-2.839868E-002	-8.311982E-001
1034	4	-6.689311E-003	-2.355535E-002	-2.360538E-002	-8.312000E-001
1035	1	-1.298871E-002	-2.294088E-002	-4.555128E-002	-8.895175E-001
1035	2	-1.533501E-002	-2.294119E-002	-5.411145E-002	-8.895311E-001
1035	3	-1.533487E-002	-2.242443E-002	-5.411173E-002	-7.912902E-001
1035	4	-1.298843E-002	-2.242433E-002	-4.554884E-002	-7.912887E-001
1036	1	-9.280402E-003	-2.344862E-002	-3.274646E-002	-8.274350E-001
1036	2	-1.128715E-002	-2.344883E-002	-3.982872E-002	-8.274386E-001
1036	3	-1.128730E-002	-2.302225E-002	-3.982896E-002	-8.123895E-001
1036	4	-9.280257E-003	-2.302212E-002	-3.274552E-002	-8.123792E-001
1037	1	-2.170934E-002	-2.059006E-002	-7.660735E-002	-7.265640E-001
1037	2	-2.407750E-002	-2.059043E-002	-8.496338E-002	-7.265760E-001
1037	3	-2.407849E-002	-2.008699E-002	-8.496438E-002	-7.888110E-001

1037	4	-2.170977E-002	-2.008679E-002	-7.660570E-002	-7.088047E-001
1038	1	-1.720113E-002	-2.205983E-002	-6.069624E-002	-7.784272E-001
1038	2	-1.986802E-002	-2.205993E-002	-7.010843E-002	-7.784297E-001
1038	3	-1.986745E-002	-2.149309E-002	-7.010615E-002	-7.584296E-001
1038	4	-1.720040E-002	-2.149271E-002	-6.069660E-002	-7.584153E-001
1039	1	-2.552027E-002	-1.858698E-002	-9.005211E-002	-6.558793E-001
1039	2	-2.709050E-002	-1.858698E-002	-9.559517E-002	-6.558800E-001
1039	3	-2.709370E-002	-1.825274E-002	-9.560391E-002	-6.440863E-001
1039	4	-2.552103E-002	-1.825274E-002	-9.085560E-002	-6.440864E-001
1040	1	-2.886466E-002	-1.414738E-002	-1.018565E-001	-4.992203E-001
1040	2	-2.889375E-002	-1.414744E-002	-1.019566E-001	-4.992235E-001
1040	3	-2.889357E-002	-1.414129E-002	-1.019564E-001	-4.990027E-001
1040	4	-2.886446E-002	-1.414110E-002	-1.018553E-001	-4.990025E-001
1041	1	-2.793421E-002	-1.633929E-002	-9.857213E-002	-5.765663E-001
1041	2	-2.860888E-002	-1.633926E-002	-1.009487E-001	-5.765642E-001
1041	3	-2.860840E-002	-1.619616E-002	-1.009507E-001	-5.715127E-001
1041	4	-2.793451E-002	-1.619591E-002	-9.857331E-002	-5.715080E-001
1042	1	-2.878565E-002	-1.215777E-002	-1.015755E-001	-4.290113E-001
1042	2	-2.846041E-002	-1.215767E-002	-1.004285E-001	-4.290103E-001
1042	3	-2.845962E-002	-1.222701E-002	-1.004261E-001	-4.314530E-001
1042	4	-2.878519E-002	-1.222696E-002	-1.015751E-001	-4.314534E-001
1043	1	-2.819250E-002	-1.038412E-002	-9.948327E-002	-3.664245E-001
1043	2	-2.774163E-002	-1.038404E-002	-9.789220E-002	-3.664216E-001
1043	3	-2.774180E-002	-1.047998E-002	-9.789200E-002	-3.698091E-001
1043	4	-2.819145E-002	-1.048004E-002	-9.948100E-002	-3.698120E-001
1044	1	-2.741387E-002	-8.778052E-003	-9.673516E-002	-3.897514E-001
1044	2	-2.696973E-002	-8.778032E-003	-9.516812E-002	-3.897503E-001
1044	3	-2.696911E-002	-8.872503E-003	-9.516596E-002	-3.130815E-001
1044	4	-2.741338E-002	-8.872398E-003	-9.673510E-002	-3.130827E-001
1045	1	-2.665677E-002	-7.287817E-003	-9.486555E-002	-2.571619E-001
1045	2	-2.624868E-002	-7.287645E-003	-9.262405E-002	-2.571598E-001
1045	3	-2.624787E-002	-7.374618E-003	-9.262060E-002	-2.602268E-001
1045	4	-2.665651E-002	-7.374606E-003	-9.486349E-002	-2.602306E-001
1046	1	-2.543199E-002	-4.526873E-003	-8.974206E-002	-1.597389E-001
1046	2	-2.516977E-002	-4.526813E-003	-8.881495E-002	-1.597385E-001
1046	3	-2.516905E-002	-4.582641E-003	-8.881381E-002	-1.617108E-001
1046	4	-2.543187E-002	-4.582633E-003	-8.974075E-002	-1.617106E-001
1047	1	-2.598923E-002	-5.880767E-003	-9.170835E-002	-2.075142E-001
1047	2	-2.565148E-002	-5.880720E-003	-9.051605E-002	-2.075137E-001
1047	3	-2.565130E-002	-5.952514E-003	-9.051649E-002	-2.100454E-001
1047	4	-2.598849E-002	-5.952445E-003	-9.170599E-002	-2.100451E-001
1048	1	-2.501298E-002	-3.206179E-003	-8.826219E-002	-1.131383E-001
1048	2	-2.481178E-002	-3.206108E-003	-8.755302E-002	-1.131375E-001
1048	3	-2.481137E-002	-3.248733E-003	-8.755260E-002	-1.146404E-001
1048	4	-2.501207E-002	-3.248782E-003	-8.825968E-002	-1.146424E-001
1049	1	-2.449689E-002	-6.302646E-004	-8.644226E-002	-2.224009E-002
1049	2	-2.440292E-002	-6.301580E-004	-8.610961E-002	-2.223686E-002
1049	3	-2.440283E-002	-6.500077E-004	-8.611022E-002	-2.293671E-002
1049	4	-2.449633E-002	-6.500196E-004	-8.644137E-002	-2.293855E-002
1050	1	-2.470253E-002	-1.988928E-003	-8.716812E-002	-6.736340E-002
1050	2	-2.456947E-002	-1.988946E-003	-8.669846E-002	-6.736398E-002
1050	3	-2.456876E-002	-1.937194E-003	-8.669628E-002	-6.836860E-002
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1051	1	-8.282717E-003	-2.272408E-002	-2.922733E-002	-8.018661E-001
1051	2	-1.010179E-002	-2.272449E-002	-3.564570E-002	-8.018823E-001
1051	3	-1.010173E-002	-2.233788E-002	-3.564555E-002	-7.882361E-001
1051	4	-8.282566E-003	-2.233765E-002	-2.922637E-002	-7.882318E-001
1052	1	-5.004406E-003	-2.330088E-002	-1.765803E-002	-8.222168E-001
1052	2	-6.916983E-003	-2.330076E-002	-2.440862E-002	-8.222175E-001
1052	3	-6.916634E-003	-2.289333E-002	-2.440543E-002	-8.078394E-001

1052	4	-5.001617E-003	-2.289331E-002	-1.764968E-002	-8.078387E-001
1053	1	-9.118468E-004	-2.381984E-002	-3.215015E-003	-8.405338E-001
1053	2	-3.399245E-003	-2.381990E-002	-1.199406E-002	-8.405361E-001
1053	3	-3.395412E-003	-2.329103E-002	-1.198049E-002	-8.218727E-001
1053	4	-9.107292E-004	-2.329070E-002	-3.213406E-003	-8.218615E-001
1054	1	-1.504366E-002	-2.112283E-002	-5.300347E-002	-7.453625E-001
1054	2	-1.712388E-002	-2.112312E-002	-6.042638E-002	-7.453723E-001
1054	3	-1.712379E-002	-2.068072E-002	-6.042410E-002	-7.297620E-001
1054	4	-1.504304E-002	-2.068060E-002	-5.300386E-002	-7.297598E-001
1055	1	-1.151124E-002	-2.207699E-002	-4.061994E-002	-7.790356E-001
1055	2	-1.353987E-002	-2.207718E-002	-4.777799E-002	-7.790360E-001
1055	3	-1.353915E-002	-2.164587E-002	-4.777688E-002	-7.637915E-001
1055	4	-1.151049E-002	-2.164465E-002	-4.061748E-002	-7.637761E-001
1056	1	-1.855399E-002	-1.976069E-002	-6.547239E-002	-6.972961E-001
1056	2	-2.038051E-002	-1.976070E-002	-7.191638E-002	-6.972963E-001
1056	3	-2.038267E-002	-1.937215E-002	-7.192560E-002	-6.835874E-001
1056	4	-1.855560E-002	-1.937225E-002	-6.547756E-002	-6.835868E-001
1057	1	-2.358053E-002	-1.608812E-002	-8.328829E-002	-5.677082E-001
1057	2	-2.428257E-002	-1.608815E-002	-8.568656E-002	-5.677037E-001
1057	3	-2.428286E-002	-1.593868E-002	-8.568653E-002	-5.624307E-001
1057	4	-2.358088E-002	-1.593870E-002	-8.328693E-002	-5.624320E-001
1058	1	-2.154242E-002	-1.802858E-002	-7.601621E-002	-6.361741E-001
1058	2	-2.284611E-002	-1.802859E-002	-8.061838E-002	-6.361779E-001
1058	3	-2.284745E-002	-1.775140E-002	-8.061962E-002	-6.263927E-001
1058	4	-2.154444E-002	-1.775117E-002	-7.602606E-002	-6.263871E-001
1059	1	-2.460917E-002	-1.412438E-002	-8.683828E-002	-4.984058E-001
1059	2	-2.479791E-002	-1.412425E-002	-8.750359E-002	-4.984053E-001
1059	3	-2.479842E-002	-1.408414E-002	-8.750514E-002	-4.969897E-001
1059	4	-2.460898E-002	-1.408417E-002	-8.683956E-002	-4.969888E-001
1060	1	-2.456121E-002	-1.053683E-002	-8.666910E-002	-3.717858E-001
1060	2	-2.428266E-002	-1.053601E-002	-8.568501E-002	-3.717861E-001
1060	3	-2.428185E-002	-1.059539E-002	-8.568319E-002	-3.738794E-001
1060	4	-2.456121E-002	-1.059548E-002	-8.666813E-002	-3.738820E-001
1061	1	-2.483720E-002	-1.226224E-002	-8.764432E-002	-4.326982E-001
1061	2	-2.471001E-002	-1.226226E-002	-8.719345E-002	-4.326975E-001
1061	3	-2.471008E-002	-1.228949E-002	-8.719542E-002	-4.336590E-001
1061	4	-2.483780E-002	-1.228941E-002	-8.764581E-002	-4.336574E-001
1062	1	-2.407323E-002	-8.933112E-003	-8.497424E-002	-3.152218E-001
1062	2	-2.373787E-002	-8.933120E-003	-8.376376E-002	-3.152223E-001
1062	3	-2.373787E-002	-9.004252E-003	-8.376170E-002	-3.177332E-001
1062	4	-2.407229E-002	-9.004257E-003	-8.494391E-002	-3.177341E-001
1063	1	-2.351374E-002	-7.430526E-003	-8.297382E-002	-2.622027E-001
1063	2	-2.319869E-002	-7.430443E-003	-8.186007E-002	-2.622003E-001
1063	3	-2.319804E-002	-7.497691E-003	-8.185989E-002	-2.645704E-001
1063	4	-2.351337E-002	-7.497766E-003	-8.297131E-002	-2.645725E-001
1064	1	-2.253789E-002	-4.620532E-003	-7.952882E-002	-1.630455E-001
1064	2	-2.231541E-002	-4.620629E-003	-7.874495E-002	-1.630465E-001
1064	3	-2.231534E-002	-4.667776E-003	-7.874305E-002	-1.647137E-001
1064	4	-2.253715E-002	-4.667812E-003	-7.952823E-002	-1.647129E-001
1065	1	-2.298163E-002	-6.000046E-003	-8.189787E-002	-2.117270E-001
1065	2	-2.270694E-002	-6.000177E-003	-8.012599E-002	-2.117256E-001
1065	3	-2.270578E-002	-6.058569E-003	-8.012247E-002	-2.137910E-001
1065	4	-2.298143E-002	-6.058684E-003	-8.189386E-002	-2.137903E-001
1066	1	-2.217350E-002	-3.276668E-003	-7.824471E-002	-1.156250E-001
1066	2	-2.200897E-002	-3.276815E-003	-7.766137E-002	-1.156270E-001
1066	3	-2.200810E-002	-3.311832E-003	-7.766100E-002	-1.168641E-001
1066	4	-2.217341E-002	-3.311840E-003	-7.824600E-002	-1.168665E-001
1067	1	-2.175990E-002	-6.602508E-004	-7.678194E-002	-2.330120E-002
1067	2	-2.171989E-002	-6.602998E-004	-7.664141E-002	-2.330006E-002
1067	3	-2.171962E-002	-6.687445E-004	-7.664182E-002	-2.360811E-002

1067	4	-2.175936E-002	-6.688337E-004	-7.678206E-002	-2.359915E-002
1068	1	-2.191896E-002	-1.956399E-003	-7.734618E-002	-6.983603E-002
1068	2	-2.180468E-002	-1.956447E-003	-7.694198E-002	-6.983572E-002
1068	3	-2.180393E-002	-1.980727E-003	-7.694212E-002	-6.989518E-002
1068	4	-2.191849E-002	-1.980817E-003	-7.734443E-002	-6.989423E-002
1069	1	-7.172376E-004	-2.294462E-002	-2.531588E-003	-8.096504E-001
1069	2	-2.679471E-003	-2.294494E-002	-9.455681E-003	-8.096617E-001
1069	3	-2.680380E-003	-2.252793E-002	-9.456381E-003	-7.949406E-001
1069	4	-7.176697E-004	-2.252779E-002	-2.531707E-003	-7.949368E-001
1070	1	-7.062436E-003	-2.206671E-002	-2.492139E-002	-7.786715E-001
1070	2	-8.729324E-003	-2.206678E-002	-3.080185E-002	-7.786719E-001
1070	3	-8.729362E-003	-2.171266E-002	-3.080209E-002	-7.661793E-001
1070	4	-7.062670E-003	-2.171279E-002	-2.492292E-002	-7.661779E-001
1071	1	-4.043436E-003	-2.260648E-002	-1.426869E-002	-7.977163E-001
1071	2	-5.808142E-003	-2.260644E-002	-2.049494E-002	-7.977166E-001
1071	3	-5.807114E-003	-2.223095E-002	-2.049283E-002	-7.844687E-001
1071	4	-4.043504E-003	-2.223108E-002	-1.426929E-002	-7.844674E-001
1072	1	-9.955491E-003	-2.135483E-002	-3.512973E-002	-7.535478E-001
1072	2	-1.164116E-002	-2.135517E-002	-4.107703E-002	-7.535613E-001
1072	3	-1.164136E-002	-2.099638E-002	-4.107915E-002	-7.408808E-001
1072	4	-9.955208E-003	-2.099605E-002	-3.513107E-002	-7.408897E-001
1073	1	-1.565524E-002	-1.911720E-002	-5.524199E-002	-6.745901E-001
1073	2	-1.710026E-002	-1.911719E-002	-6.034197E-002	-6.745892E-001
1073	3	-1.710033E-002	-1.880946E-002	-6.034234E-002	-6.637322E-001
1073	4	-1.565520E-002	-1.880945E-002	-5.524234E-002	-6.637316E-001
1074	1	-1.286364E-002	-2.039012E-002	-4.539394E-002	-7.195861E-001
1074	2	-1.452023E-002	-2.039013E-002	-5.123842E-002	-7.195855E-001
1074	3	-1.451947E-002	-2.003836E-002	-5.123576E-002	-7.070943E-001
1074	4	-1.286425E-002	-2.003832E-002	-4.539494E-002	-7.070959E-001
1075	1	-1.802520E-002	-1.756498E-002	-6.360678E-002	-6.198174E-001
1075	2	-1.910705E-002	-1.756517E-002	-6.742200E-002	-6.198254E-001
1075	3	-1.910688E-002	-1.733557E-002	-6.742287E-002	-6.117195E-001
1075	4	-1.802485E-002	-1.733528E-002	-6.360635E-002	-6.117120E-001
1076	1	-1.973697E-002	-1.583489E-002	-6.964803E-002	-5.587391E-001
1076	2	-2.038007E-002	-1.583489E-002	-7.191651E-002	-5.587394E-001
1076	3	-2.038118E-002	-1.569736E-002	-7.191934E-002	-5.539162E-001
1076	4	-1.973718E-002	-1.569745E-002	-6.964913E-002	-5.539152E-001
1077	1	-2.108679E-002	-1.229918E-002	-7.440850E-002	-4.340021E-001
1077	2	-2.108020E-002	-1.229920E-002	-7.438735E-002	-4.340029E-001
1077	3	-2.108041E-002	-1.230057E-002	-7.438682E-002	-4.340514E-001
1077	4	-2.108704E-002	-1.230045E-002	-7.440869E-002	-4.340501E-001
1078	1	-2.072918E-002	-1.404902E-002	-7.314774E-002	-4.957487E-001
1078	2	-2.099270E-002	-1.404895E-002	-7.407828E-002	-4.957476E-001
1078	3	-2.099318E-002	-1.399295E-002	-7.407894E-002	-4.937678E-001
1078	4	-2.072952E-002	-1.399283E-002	-7.314708E-002	-4.937663E-001
1079	1	-2.073444E-002	-9.047813E-003	-7.316535E-002	-3.192727E-001
1079	2	-2.051800E-002	-9.047870E-003	-7.237438E-002	-3.192718E-001
1079	3	-2.050951E-002	-9.095645E-003	-7.237254E-002	-3.209580E-001
1079	4	-2.073507E-002	-9.095663E-003	-7.316728E-002	-3.209567E-001
1080	1	-2.103570E-002	-1.062969E-002	-7.422934E-002	-3.750912E-001
1080	2	-2.087549E-002	-1.062971E-002	-7.366335E-002	-3.750900E-001
1080	3	-2.087511E-002	-1.066379E-002	-7.366130E-002	-3.762928E-001
1080	4	-2.103537E-002	-1.066369E-002	-7.422635E-002	-3.762914E-001
1081	1	-2.035221E-002	-7.540676E-003	-7.181714E-002	-2.668984E-001
1081	2	-2.010653E-002	-7.540692E-003	-7.094935E-002	-2.668882E-001
1081	3	-2.010559E-002	-7.592855E-003	-7.094827E-002	-2.679312E-001
1081	4	-2.035180E-002	-7.592937E-003	-7.181655E-002	-2.679330E-001
1082	1	-1.959197E-002	-4.699423E-003	-6.913532E-002	-1.658292E-001
1082	2	-1.940632E-002	-4.699389E-003	-6.848073E-002	-1.658286E-001
1082	3	-1.940603E-002	-4.738847E-003	-6.847914E-002	-1.672205E-001

1082	4	-1.959181E-002	-4.738824E-003	-6.913500E-002	-1.672216E-001
1083	1	-1.994979E-002	-6.897311E-003	-7.039631E-002	-2.151549E-001
1083	2	-1.972788E-002	-6.897350E-003	-6.961311E-002	-2.151542E-001
1083	3	-1.972720E-002	-6.144384E-003	-6.961302E-002	-2.168196E-001
1083	4	-1.994870E-002	-6.144420E-003	-7.039464E-002	-2.168189E-001
1084	1	-1.938127E-002	-3.334685E-003	-6.810813E-002	-1.176723E-001
1084	2	-1.916475E-002	-3.334652E-003	-6.762766E-002	-1.176725E-001
1084	3	-1.916472E-002	-3.363834E-003	-6.762739E-002	-1.187001E-001
1084	4	-1.938105E-002	-3.363804E-003	-6.810808E-002	-1.187011E-001
1085	1	-1.897185E-002	-6.742160E-004	-6.694704E-002	-2.379126E-002
1085	2	-1.894291E-002	-6.742186E-004	-6.684412E-002	-2.379152E-002
1085	3	-1.894324E-002	-6.803750E-004	-6.684302E-002	-2.400698E-002
1085	4	-1.897221E-002	-6.803688E-004	-6.694745E-002	-2.400750E-002
1086	1	-1.900464E-002	-1.996191E-003	-6.734359E-002	-7.043796E-002
1086	2	-1.900125E-002	-1.996209E-003	-6.705114E-002	-7.043824E-002
1086	3	-1.900196E-002	-2.013770E-003	-6.705227E-002	-7.105976E-002
1086	4	-1.900462E-002	-2.013765E-003	-6.734467E-002	-7.106031E-002
1087	1	-5.816370E-004	-2.225165E-002	-2.053618E-003	-7.851942E-001
1087	2	-2.171442E-003	-2.225162E-002	-7.661149E-003	-7.851932E-001
1087	3	-2.170764E-003	-2.191404E-002	-7.660344E-003	-7.732817E-001
1087	4	-5.815923E-004	-2.191403E-002	-2.053738E-003	-7.732831E-001
1088	1	-8.344304E-003	-2.075602E-002	-2.944707E-002	-7.324203E-001
1088	2	-9.735768E-003	-2.075621E-002	-3.435444E-002	-7.324256E-001
1088	3	-9.735623E-003	-2.045996E-002	-3.435320E-002	-7.219746E-001
1088	4	-8.344494E-003	-2.045994E-002	-2.944840E-002	-7.219741E-001
1089	1	-5.878026E-003	-2.147166E-002	-2.074197E-002	-7.576675E-001
1089	2	-7.312272E-003	-2.147151E-002	-2.580223E-002	-7.576686E-001
1089	3	-7.312311E-003	-2.116665E-002	-2.580247E-002	-7.469130E-001
1089	4	-5.878257E-003	-2.116674E-002	-2.074350E-002	-7.469127E-001
1090	1	-3.302943E-003	-2.197640E-002	-1.165470E-002	-7.754837E-001
1090	2	-4.804797E-003	-2.197647E-002	-1.695604E-002	-7.754856E-001
1090	3	-4.804725E-003	-2.165668E-002	-1.695393E-002	-7.641996E-001
1090	4	-3.302617E-003	-2.165654E-002	-1.165181E-002	-7.641942E-001
1091	1	-1.072826E-002	-1.980694E-002	-3.785883E-002	-6.989259E-001
1091	2	-1.204762E-002	-1.980687E-002	-4.251361E-002	-6.989266E-001
1091	3	-1.204789E-002	-1.952651E-002	-4.251466E-002	-6.890334E-001
1091	4	-1.072803E-002	-1.952650E-002	-3.785639E-002	-6.890317E-001
1092	1	-1.483541E-002	-1.718268E-002	-5.234898E-002	-6.063285E-001
1092	2	-1.570840E-002	-1.718282E-002	-5.542971E-002	-6.063330E-001
1092	3	-1.570936E-002	-1.699701E-002	-5.543396E-002	-5.997754E-001
1092	4	-1.483539E-002	-1.699707E-002	-5.234985E-002	-5.997769E-001
1093	1	-1.295875E-002	-1.860743E-002	-4.570862E-002	-6.566018E-001
1093	2	-1.409702E-002	-1.860756E-002	-4.974515E-002	-6.566048E-001
1093	3	-1.409720E-002	-1.836347E-002	-4.974568E-002	-6.479926E-001
1093	4	-1.295071E-002	-1.836331E-002	-4.569949E-002	-6.479859E-001
1094	1	-1.625004E-002	-1.560308E-002	-5.734289E-002	-5.505877E-001
1094	2	-1.681747E-002	-1.560311E-002	-5.934329E-002	-5.505868E-001
1094	3	-1.681704E-002	-1.548247E-002	-5.934362E-002	-5.463327E-001
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1095	1	-1.712522E-002	-1.395025E-002	-6.843219E-002	-4.922618E-001
1095	2	-1.740859E-002	-1.395026E-002	-6.140285E-002	-4.922636E-001
1095	3	-1.740124E-002	-1.389158E-002	-6.140409E-002	-4.901939E-001
1095	4	-1.712538E-002	-1.389152E-002	-6.842976E-002	-4.901915E-001
1096	1	-1.744927E-002	-9.124770E-003	-6.157363E-002	-3.219856E-001
1096	2	-1.729849E-002	-9.124706E-003	-6.104285E-002	-3.219855E-001
1096	3	-1.729832E-002	-9.156800E-003	-6.104147E-002	-3.231137E-001
1096	4	-1.744910E-002	-9.156689E-003	-6.157415E-002	-3.231140E-001
1097	1	-1.759581E-002	-1.068215E-002	-6.209162E-002	-3.769413E-001
1097	2	-1.751841E-002	-1.068211E-002	-6.181675E-002	-3.769425E-001
1097	3	-1.751765E-002	-1.065881E-002	-6.181420E-002	-3.775278E-001

1097	4	-1.759615E-002	-1.869870E-002	-6.209071E-002	-3.775280E-001
1098	1	-1.753962E-002	-1.229617E-002	-6.189445E-002	-4.339969E-001
1098	2	-1.760180E-002	-1.229621E-002	-6.211199E-002	-4.338965E-001
1098	3	-1.760194E-002	-1.228301E-002	-6.211305E-002	-4.334337E-001
1098	4	-1.754042E-002	-1.228302E-002	-6.189508E-002	-4.334339E-001
1099	1	-1.717941E-002	-7.625049E-003	-6.062097E-002	-2.690654E-001
1099	2	-1.700418E-002	-7.624968E-003	-6.000128E-002	-2.690642E-001
1099	3	-1.700395E-002	-7.662370E-003	-6.000150E-002	-2.703816E-001
1099	4	-1.717939E-002	-7.662386E-003	-6.062018E-002	-2.703838E-001
1100	1	-1.661137E-002	-4.764341E-003	-5.861713E-002	-1.681199E-001
1100	2	-1.646904E-002	-4.764353E-003	-5.811528E-002	-1.681201E-001
1100	3	-1.646945E-002	-4.794377E-003	-5.811625E-002	-1.691826E-001
1100	4	-1.661087E-002	-4.794461E-003	-5.861539E-002	-1.691833E-001
1101	1	-1.689230E-002	-6.174804E-003	-5.960714E-002	-2.178919E-001
1101	2	-1.672441E-002	-6.174845E-003	-5.901591E-002	-2.178920E-001
1101	3	-1.672428E-002	-6.210499E-003	-5.901450E-002	-2.191509E-001
1101	4	-1.689174E-002	-6.210524E-003	-5.960669E-002	-2.191517E-001
1102	1	-1.638924E-002	-3.382741E-003	-5.783191E-002	-1.193689E-001
1102	2	-1.627423E-002	-3.382725E-003	-5.742760E-002	-1.193665E-001
1102	3	-1.627390E-002	-3.407049E-003	-5.742707E-002	-1.202253E-001
1102	4	-1.638050E-002	-3.407102E-003	-5.783078E-002	-1.202259E-001
1103	1	-1.613077E-002	-6.840694E-004	-5.692156E-002	-2.414076E-002
1103	2	-1.611280E-002	-6.841109E-004	-5.685725E-002	-2.413915E-002
1103	3	-1.611309E-002	-6.879129E-004	-5.685747E-002	-2.427399E-002
1103	4	-1.613072E-002	-6.879634E-004	-5.691935E-002	-2.427488E-002
1104	1	-1.622049E-002	-2.025660E-003	-5.723719E-002	-7.147931E-002
1104	2	-1.615211E-002	-2.025611E-003	-5.699690E-002	-7.147815E-002
1104	3	-1.615191E-002	-2.040206E-003	-5.699534E-002	-7.199130E-002
1104	4	-1.621996E-002	-2.040113E-003	-5.723685E-002	-7.199026E-002
1105	1	-2.650233E-003	-2.144404E-002	-9.353020E-003	-7.566961E-001
1105	2	-3.871656E-003	-2.144425E-002	-1.366177E-002	-7.567045E-001
1105	3	-3.871488E-003	-2.118415E-002	-1.366120E-002	-7.475264E-001
1105	4	-2.650385E-003	-2.118398E-002	-9.352044E-003	-7.475204E-001
1106	1	-4.663318E-004	-2.169131E-002	-1.642644E-003	-7.654237E-001
1106	2	-1.737982E-003	-2.169142E-002	-6.133437E-003	-7.654281E-001
1106	3	-1.738038E-003	-2.142113E-002	-6.134138E-003	-7.558898E-001
1106	4	-4.662871E-004	-2.142091E-002	-1.644671E-003	-7.558838E-001
1107	1	-4.745218E-003	-2.096463E-002	-1.674642E-002	-7.397802E-001
1107	2	-5.910741E-003	-2.096464E-002	-2.085774E-002	-7.397814E-001
1107	3	-5.912750E-003	-2.071668E-002	-2.086492E-002	-7.310269E-001
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1108	4	-1.840232E-002	-1.801428E-002	-3.670703E-002	-6.356712E-001
1109	1	-8.652874E-003	-1.934354E-002	-3.053458E-002	-6.825750E-001
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1109	4	-8.653564E-003	-1.912377E-002	-3.053677E-002	-6.748220E-001
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1110	2	-7.867754E-003	-2.026465E-002	-2.776260E-002	-7.150780E-001
1110	3	-7.867733E-003	-2.002761E-002	-2.776353E-002	-7.067155E-001
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1111	2	-1.257558E-002	-1.687452E-002	-4.437429E-002	-5.954513E-001
1111	3	-1.257551E-002	-1.672545E-002	-4.437439E-002	-5.901907E-001
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1112	1	-1.374978E-002	-1.384881E-002	-4.851846E-002	-4.886841E-001
1112	2	-1.401244E-002	-1.384892E-002	-4.944615E-002	-4.886879E-001
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1112	4	-1.375027E-002	-1.379282E-002	-4.851836E-002	-4.867072E-001
1113	1	-1.300522E-002	-1.540153E-002	-4.589313E-002	-5.434746E-001
1113	2	-1.347970E-002	-1.540167E-002	-4.756487E-002	-5.434784E-001
1113	3	-1.348000E-002	-1.530088E-002	-4.756714E-002	-5.399219E-001
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1114	1	-1.426556E-002	-1.070709E-002	-5.033952E-002	-3.778189E-001
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1115	1	-1.414206E-002	-1.227148E-002	-4.990144E-002	-4.330259E-001
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1115	4	-1.414175E-002	-1.225289E-002	-4.990015E-002	-4.323681E-001
1116	1	-1.403894E-002	-7.685168E-003	-4.951100E-002	-2.711865E-001
1116	2	-1.398661E-002	-7.685199E-003	-4.987241E-002	-2.711854E-001
1116	3	-1.398665E-002	-7.711656E-003	-4.987253E-002	-2.721203E-001
1116	4	-1.403108E-002	-7.711587E-003	-4.951092E-002	-2.721193E-001
1117	1	-1.419276E-002	-9.175936E-003	-5.008364E-002	-3.237932E-001
1117	2	-1.409676E-002	-9.175974E-003	-4.974441E-002	-3.237914E-001
1117	3	-1.409705E-002	-9.196356E-003	-4.974481E-002	-3.245127E-001
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1118	1	-1.362006E-002	-4.814507E-003	-4.805871E-002	-1.698870E-001
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1119	1	-1.381562E-002	-6.233077E-003	-4.875169E-002	-2.199486E-001
1119	2	-1.369263E-002	-6.233110E-003	-4.831913E-002	-2.199478E-001
1119	3	-1.369317E-002	-6.259252E-003	-4.831844E-002	-2.208700E-001
1119	4	-1.381574E-002	-6.259242E-003	-4.875171E-002	-2.208696E-001
1120	1	-1.344429E-002	-3.422327E-003	-4.743992E-002	-1.207616E-001
1120	2	-1.335630E-002	-3.422284E-003	-4.712974E-002	-1.207624E-001
1120	3	-1.335536E-002	-3.441026E-003	-4.712874E-002	-1.214229E-001
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1122	3	-1.326556E-002	-2.060495E-003	-4.680994E-002	-7.270833E-002
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1123	3	-1.350604E-003	-2.103508E-002	-4.765019E-003	-7.422655E-001
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1125	2	-6.049786E-003	-1.987392E-002	-2.134839E-002	-7.012916E-001
1125	3	-6.049836E-003	-1.969222E-002	-2.134821E-002	-6.948789E-001
1125	4	-5.194708E-003	-1.969210E-002	-1.832847E-002	-6.948763E-001
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1130	1	-9.084234E-003	-1.662933E-002	-3.205497E-002	-5.868012E-001
1130	2	-9.616498E-003	-1.662936E-002	-3.393393E-002	-5.868013E-001
1130	3	-9.616038E-003	-1.651602E-002	-3.393204E-002	-5.827997E-001
1130	4	-9.083753E-003	-1.651587E-002	-3.205490E-002	-5.827943E-001
1131	1	-1.100585E-002	-1.071520E-002	-3.883421E-002	-3.781090E-001
1131	2	-1.100318E-002	-1.071525E-002	-3.882764E-002	-3.781098E-001
1131	3	-1.100347E-002	-1.071567E-002	-3.882720E-002	-3.781227E-001
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1132	1	-1.087284E-002	-1.223861E-002	-3.836769E-002	-4.318635E-001
1132	2	-1.096971E-002	-1.223858E-002	-3.871021E-002	-4.318641E-001
1132	3	-1.096997E-002	-1.221792E-002	-3.871046E-002	-4.311321E-001
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1133	3	-1.075849E-002	-1.370935E-002	-3.796235E-002	-4.837638E-001
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1134	3	-1.093443E-002	-9.220703E-003	-3.858320E-002	-3.253724E-001
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1135	1	-1.060459E-002	-4.853986E-003	-3.741869E-002	-1.712803E-001
1135	2	-1.052573E-002	-4.853948E-003	-3.714303E-002	-1.712810E-001
1135	3	-1.052574E-002	-4.870610E-003	-3.714224E-002	-1.718713E-001
1135	4	-1.060416E-002	-4.870787E-003	-3.741754E-002	-1.718706E-001
1136	1	-1.074993E-002	-6.276298E-003	-3.793461E-002	-2.214729E-001
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1136	3	-1.065438E-002	-6.296723E-003	-3.759585E-002	-2.221949E-001
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1137	3	-1.080150E-002	-7.744925E-003	-3.811433E-002	-2.732974E-001
1137	4	-1.088194E-002	-7.744940E-003	-3.839957E-002	-2.732968E-001
1138	1	-1.047393E-002	-3.452089E-003	-3.696107E-002	-1.218139E-001
1138	2	-1.041183E-002	-3.452043E-003	-3.674120E-002	-1.218135E-001
1138	3	-1.041200E-002	-3.465365E-003	-3.674107E-002	-1.222812E-001
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1142	3	-2.109591E-003	-2.055291E-002	-7.445123E-003	-7.252544E-001

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1143	2	-9.887554E-004	-2.091318E-002	-3.490657E-003	-7.379642E-001
1143	3	-9.882152E-004	-2.079056E-002	-3.486872E-003	-7.336372E-001
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1146	3	-6.780966E-003	-1.636629E-002	-2.392869E-002	-5.775185E-001
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1147	2	-6.092153E-003	-1.765959E-002	-2.149689E-002	-6.231553E-001
1147	3	-6.093773E-003	-1.756032E-002	-2.150176E-002	-6.196507E-001
1147	4	-5.625868E-003	-1.756024E-002	-1.985143E-002	-6.196462E-001
1148	1	-7.706243E-003	-1.220501E-002	-2.719384E-002	-4.306811E-001
1148	2	-7.774249E-003	-1.220499E-002	-2.743499E-002	-4.306811E-001
1148	3	-7.774513E-003	-1.219055E-002	-2.743482E-002	-4.301695E-001
1148	4	-7.706972E-003	-1.219058E-002	-2.719590E-002	-4.301686E-001
1149	1	-7.445758E-003	-1.367996E-002	-2.627425E-002	-4.827286E-001
1149	2	-7.608647E-003	-1.368007E-002	-2.684744E-002	-4.827265E-001
1149	3	-7.607891E-003	-1.364547E-002	-2.684658E-002	-4.815077E-001
1149	4	-7.445244E-003	-1.364544E-002	-2.627336E-002	-4.815068E-001
1150	1	-7.815534E-003	-1.510642E-002	-2.475588E-002	-5.330594E-001
1150	2	-7.286363E-003	-1.510638E-002	-2.571089E-002	-5.330614E-001
1150	3	-7.286784E-003	-1.504859E-002	-2.571354E-002	-5.310206E-001
1150	4	-7.815447E-003	-1.504862E-002	-2.475361E-002	-5.310215E-001
1151	1	-7.818433E-003	-9.227093E-003	-2.758988E-002	-3.255995E-001
1151	2	-7.786623E-003	-9.227211E-003	-2.747742E-002	-3.255901E-001
1151	3	-7.786958E-003	-9.233999E-003	-2.747842E-002	-3.258420E-001
1151	4	-7.817981E-003	-9.233859E-003	-2.758952E-002	-3.258370E-001
1152	1	-7.817507E-003	-1.071509E-002	-2.758559E-002	-3.781019E-001
1152	2	-7.826845E-003	-1.071512E-002	-2.761734E-002	-3.781048E-001
1152	3	-7.826676E-003	-1.071308E-002	-2.761856E-002	-3.780323E-001
1152	4	-7.817109E-003	-1.071309E-002	-2.758588E-002	-3.780313E-001
1153	1	-7.675042E-003	-6.308745E-003	-2.708404E-002	-2.226181E-001
1153	2	-7.617209E-003	-6.308730E-003	-2.687937E-002	-2.226173E-001
1153	3	-7.617361E-003	-6.321073E-003	-2.687915E-002	-2.230558E-001
1153	4	-7.675656E-003	-6.321152E-003	-2.708381E-002	-2.230556E-001
1154	1	-7.766321E-003	-7.756139E-003	-2.740604E-002	-2.736808E-001
1154	2	-7.705138E-003	-7.756089E-003	-2.719085E-002	-2.736896E-001
1154	3	-7.705141E-003	-7.769119E-003	-2.718996E-002	-2.741491E-001
1154	4	-7.766258E-003	-7.769171E-003	-2.740618E-002	-2.741508E-001
1155	1	-7.497214E-003	-3.473319E-003	-2.645430E-002	-1.225639E-001
1155	2	-7.448639E-003	-3.473167E-003	-2.628545E-002	-1.225609E-001
1155	3	-7.448303E-003	-3.483529E-003	-2.628255E-002	-1.229245E-001
1155	4	-7.497011E-003	-3.483535E-003	-2.645395E-002	-1.229221E-001
1156	1	-7.575905E-003	-4.881026E-003	-2.673211E-002	-1.722362E-001
1156	2	-7.520863E-003	-4.881088E-003	-2.653977E-002	-1.722375E-001
1156	3	-7.521112E-003	-4.892640E-003	-2.653869E-002	-1.726439E-001
1156	4	-7.575721E-003	-4.892712E-003	-2.673175E-002	-1.726404E-001
1157	1	-7.408163E-003	-6.974808E-004	-2.614100E-002	-2.461286E-002
1157	2	-7.403825E-003	-6.975378E-004	-2.612426E-002	-2.461402E-002
1157	3	-7.403040E-003	-6.984159E-004	-2.612405E-002	-2.464793E-002

1157	4	-7.407507E-003	-6.984032E-004	-2.613967E-002	-2.464752E-002
1158	1	-7.434955E-003	-2.081483E-003	-2.623507E-002	-7.344948E-002
1158	2	-7.407062E-003	-2.081430E-003	-2.613836E-002	-7.344873E-002
1158	3	-7.407100E-003	-2.087151E-003	-2.613779E-002	-7.365134E-002
1158	4	-7.434389E-003	-2.087258E-003	-2.623273E-002	-7.365286E-002
1159	1	-1.544058E-004	-2.071254E-002	-5.440712E-004	-7.308848E-001
1159	2	-5.767159E-004	-2.071259E-002	-2.834768E-003	-7.308880E-001
1159	3	-5.766348E-004	-2.062265E-002	-2.834962E-003	-7.277114E-001
1159	4	-1.541227E-004	-2.062257E-002	-5.445480E-004	-7.277149E-001
1160	1	-2.194394E-003	-1.937528E-002	-7.741416E-003	-6.836930E-001
1160	2	-2.553788E-003	-1.937528E-002	-9.811608E-003	-6.836934E-001
1160	3	-2.554196E-003	-1.929875E-002	-9.811419E-003	-6.809990E-001
1160	4	-2.194018E-003	-1.929882E-002	-7.743726E-003	-6.809991E-001
1161	1	-1.537326E-003	-2.002760E-002	-5.424856E-003	-7.067152E-001
1161	2	-1.922196E-003	-2.002778E-002	-6.781843E-003	-7.067156E-001
1161	3	-1.921672E-003	-1.994588E-002	-6.781401E-003	-7.038277E-001
1161	4	-1.537558E-003	-1.994579E-002	-5.427311E-003	-7.038280E-001
1162	1	-8.722701E-004	-2.047101E-002	-3.876628E-003	-7.223622E-001
1162	2	-1.257278E-003	-2.047098E-002	-4.436784E-003	-7.223626E-001
1162	3	-1.256358E-003	-2.038914E-002	-4.434706E-003	-7.194710E-001
1162	4	-8.715499E-004	-2.038921E-002	-3.875655E-003	-7.194716E-001
1163	1	-3.349086E-003	-1.750149E-002	-1.181899E-002	-6.175784E-001
1163	2	-3.628062E-003	-1.750155E-002	-1.280249E-002	-6.175822E-001
1163	3	-3.628304E-003	-1.744208E-002	-1.280186E-002	-6.154828E-001
1163	4	-3.349673E-003	-1.744224E-002	-1.181858E-002	-6.154836E-001
1164	1	-2.803828E-003	-1.852724E-002	-9.894259E-003	-6.537701E-001
1164	2	-3.128235E-003	-1.852727E-002	-1.103875E-002	-6.537732E-001
1164	3	-3.128397E-003	-1.845822E-002	-1.103832E-002	-6.513354E-001
1164	4	-2.804457E-003	-1.845809E-002	-9.897173E-003	-6.513340E-001
1165	1	-4.431083E-003	-1.362436E-002	-1.563465E-002	-4.807634E-001
1165	2	-4.537527E-003	-1.362437E-002	-1.601111E-002	-4.807643E-001
1165	3	-4.536879E-003	-1.360176E-002	-1.601029E-002	-4.799651E-001
1165	4	-4.431274E-003	-1.360179E-002	-1.563829E-002	-4.799660E-001
1166	1	-4.178590E-003	-1.501516E-002	-1.474388E-002	-5.298393E-001
1166	2	-4.335071E-003	-1.501513E-002	-1.529504E-002	-5.298384E-001
1166	3	-4.335243E-003	-1.498178E-002	-1.529627E-002	-5.286626E-001
1166	4	-4.177753E-003	-1.498175E-002	-1.474389E-002	-5.286635E-001
1167	1	-3.810641E-003	-1.632055E-002	-1.344638E-002	-5.759060E-001
1167	2	-4.027549E-003	-1.632061E-002	-1.421248E-002	-5.759051E-001
1167	3	-4.028450E-003	-1.627421E-002	-1.421448E-002	-5.742698E-001
1167	4	-3.810389E-003	-1.627425E-002	-1.344623E-002	-5.742689E-001
1168	1	-4.669046E-003	-1.071125E-002	-1.647529E-002	-3.779680E-001
1168	2	-4.674594E-003	-1.071128E-002	-1.649534E-002	-3.779691E-001
1168	3	-4.674856E-003	-1.070998E-002	-1.649628E-002	-3.779231E-001
1168	4	-4.668804E-003	-1.071002E-002	-1.647515E-002	-3.779265E-001
1169	1	-4.595753E-003	-1.218128E-002	-1.621681E-002	-4.298362E-001
1169	2	-4.647547E-003	-1.218118E-002	-1.639975E-002	-4.298369E-001
1169	3	-4.647589E-003	-1.216994E-002	-1.639999E-002	-4.294415E-001
1169	4	-4.595389E-003	-1.217000E-002	-1.621636E-002	-4.294426E-001
1170	1	-4.603229E-003	-6.328464E-003	-1.624291E-002	-2.233126E-001
1170	2	-4.566530E-003	-6.328503E-003	-1.611534E-002	-2.233132E-001
1170	3	-4.566596E-003	-6.336211E-003	-1.611543E-002	-2.235835E-001
1170	4	-4.602946E-003	-6.336112E-003	-1.624295E-002	-2.235842E-001
1171	1	-4.649798E-003	-7.775762E-003	-1.640744E-002	-2.743858E-001
1171	2	-4.625229E-003	-7.775754E-003	-1.632072E-002	-2.743863E-001
1171	3	-4.625297E-003	-7.781013E-003	-1.632147E-002	-2.745707E-001
1171	4	-4.649894E-003	-7.781116E-003	-1.640826E-002	-2.745713E-001
1172	1	-4.684535E-003	-9.237940E-003	-1.652901E-002	-3.259774E-001
1172	2	-4.665473E-003	-9.237840E-003	-1.646364E-002	-3.259778E-001
1172	3	-4.665778E-003	-9.241797E-003	-1.646362E-002	-3.261169E-001

1172	4	-4.683948E-003	-9.241751E-003	-1.652908E-002	-3.261173E-001
1173	1	-4.552159E-003	-4.899524E-003	-1.606444E-002	-1.728899E-001
1173	2	-4.510583E-003	-4.899538E-003	-1.591763E-002	-1.728891E-001
1173	3	-4.510302E-003	-4.908403E-003	-1.591560E-002	-1.732033E-001
1173	4	-4.552801E-003	-4.908426E-003	-1.606325E-002	-1.732041E-001
1174	1	-4.456027E-003	-6.990151E-004	-1.572235E-002	-2.466703E-002
1174	2	-4.453301E-003	-6.990404E-004	-1.571332E-002	-2.466726E-002
1174	3	-4.453177E-003	-6.995135E-004	-1.571441E-002	-2.468578E-002
1174	4	-4.455450E-003	-6.995496E-004	-1.572267E-002	-2.468503E-002
1175	1	-4.462998E-003	-2.090335E-003	-1.574738E-002	-7.376215E-002
1175	2	-4.450626E-003	-2.090391E-003	-1.570568E-002	-7.376193E-002
1175	3	-4.450529E-003	-2.092905E-003	-1.570514E-002	-7.385325E-002
1175	4	-4.462663E-003	-2.092941E-003	-1.574734E-002	-7.385448E-002
1176	1	-4.499656E-003	-3.489168E-003	-1.587874E-002	-1.231248E-001
1176	2	-4.476218E-003	-3.489188E-003	-1.579620E-002	-1.231243E-001
1176	3	-4.476056E-003	-3.494278E-003	-1.579561E-002	-1.233014E-001
1176	4	-4.499958E-003	-3.494246E-003	-1.587846E-002	-1.233025E-001
1177	1	-4.756451E-005	-2.057982E-002	-1.665950E-004	-7.262002E-001
1177	2	-1.774393E-004	-2.057979E-002	-6.247312E-004	-7.262007E-001
1177	3	-1.773573E-004	-2.055209E-002	-6.244481E-004	-7.252212E-001
1177	4	-4.728138E-005	-2.055199E-002	-1.689792E-004	-7.252197E-001
1178	1	-9.323641E-004	-1.842418E-002	-3.290302E-003	-6.501343E-001
1178	2	-1.038910E-003	-1.842408E-002	-3.664981E-003	-6.501337E-001
1178	3	-1.038619E-003	-1.840143E-002	-3.664546E-003	-6.493326E-001
1178	4	-9.321395E-004	-1.840139E-002	-3.289804E-003	-6.493303E-001
1179	1	-7.308314E-004	-1.926149E-002	-2.578435E-003	-6.796835E-001
1179	2	-8.491279E-004	-1.926159E-002	-2.996798E-003	-6.796813E-001
1179	3	-8.495359E-004	-1.923626E-002	-2.996617E-003	-6.787893E-001
1179	4	-7.304553E-004	-1.923615E-002	-2.577884E-003	-6.787908E-001
1180	1	-5.805916E-004	-1.990528E-002	-1.766223E-003	-7.023993E-001
1180	2	-6.367239E-004	-1.990528E-002	-2.247496E-003	-7.024018E-001
1180	3	-6.372948E-004	-1.987627E-002	-2.248485E-003	-7.013741E-001
1180	4	-5.809035E-004	-1.987616E-002	-1.768074E-003	-7.013758E-001
1181	1	-2.717787E-004	-2.034906E-002	-9.619922E-004	-7.180538E-001
1181	2	-4.034064E-004	-2.034887E-002	-1.424153E-003	-7.180526E-001
1181	3	-4.027656E-004	-2.032108E-002	-1.421681E-003	-7.170742E-001
1181	4	-2.723999E-004	-2.032106E-002	-9.606945E-004	-7.170724E-001
1182	1	-1.263445E-003	-1.625218E-002	-4.457961E-003	-5.734878E-001
1182	2	-1.330095E-003	-1.625287E-002	-4.695974E-003	-5.734878E-001
1182	3	-1.330825E-003	-1.623777E-002	-4.696679E-003	-5.729828E-001
1182	4	-1.263295E-003	-1.623772E-002	-4.458882E-003	-5.729821E-001
1183	1	-1.113002E-003	-1.741323E-002	-3.923855E-003	-6.144575E-001
1183	2	-1.204635E-003	-1.741321E-002	-4.251027E-003	-6.144587E-001
1183	3	-1.204756E-003	-1.739344E-002	-4.250876E-003	-6.137615E-001
1183	4	-1.112263E-003	-1.739333E-002	-3.925350E-003	-6.137609E-001
1184	1	-1.531915E-003	-1.216434E-002	-5.486173E-003	-4.292428E-001
1184	2	-1.543562E-003	-1.216427E-002	-5.447745E-003	-4.292428E-001
1184	3	-1.543867E-003	-1.216173E-002	-5.447587E-003	-4.291512E-001
1184	4	-1.532888E-003	-1.216184E-002	-5.486334E-003	-4.291532E-001
1185	1	-1.469844E-003	-1.359094E-002	-5.188132E-003	-4.795859E-001
1185	2	-1.501834E-003	-1.359097E-002	-5.298308E-003	-4.795868E-001
1185	3	-1.502098E-003	-1.358419E-002	-5.300497E-003	-4.793454E-001
1185	4	-1.470499E-003	-1.358425E-002	-5.188338E-003	-4.793463E-001
1186	1	-1.374327E-003	-1.496561E-002	-4.850059E-003	-5.280919E-001
1186	2	-1.425971E-003	-1.496562E-002	-5.032277E-003	-5.280935E-001
1186	3	-1.426047E-003	-1.495447E-002	-5.031234E-003	-5.276996E-001
1186	4	-1.374345E-003	-1.495447E-002	-4.850233E-003	-5.277016E-001
1187	1	-1.519659E-003	-4.912670E-003	-5.361795E-003	-1.733514E-001
1187	2	-1.499652E-003	-4.912630E-003	-5.290945E-003	-1.733525E-001
1187	3	-1.499766E-003	-4.916775E-003	-5.292038E-003	-1.735005E-001

1187	4	-1.519763E-003	-4.916832E-003	-5.362306E-003	-1.734991E-001
1188	1	-1.537016E-003	-6.340286E-003	-5.424950E-003	-2.237304E-001
1188	2	-1.519349E-003	-6.340270E-003	-5.362148E-003	-2.237316E-001
1188	3	-1.519395E-003	-6.344035E-003	-5.361655E-003	-2.238634E-001
1188	4	-1.537560E-003	-6.344070E-003	-5.425671E-003	-2.238645E-001
1189	1	-1.555063E-003	-7.784395E-003	-5.488568E-003	-2.746898E-001
1189	2	-1.536598E-003	-7.784364E-003	-5.422202E-003	-2.746890E-001
1189	3	-1.536350E-003	-7.788324E-003	-5.422279E-003	-2.748275E-001
1189	4	-1.555019E-003	-7.788299E-003	-5.486285E-003	-2.748286E-001
1190	1	-1.557926E-003	-9.243778E-003	-5.498806E-003	-3.261879E-001
1190	2	-1.550658E-003	-9.243813E-003	-5.472468E-003	-3.261866E-001
1190	3	-1.550423E-003	-9.245588E-003	-5.471329E-003	-3.262448E-001
1190	4	-1.558428E-003	-9.245414E-003	-5.498927E-003	-3.262440E-001
1191	1	-1.550866E-003	-1.070895E-002	-5.471217E-003	-3.778884E-001
1191	2	-1.558076E-003	-1.070889E-002	-5.498393E-003	-3.778875E-001
1191	3	-1.558086E-003	-1.070737E-002	-5.498239E-003	-3.778319E-001
1191	4	-1.550779E-003	-1.070734E-002	-5.472433E-003	-3.778310E-001
1192	1	-1.489136E-003	-6.998223E-004	-5.254893E-003	-2.469498E-002
1192	2	-1.487569E-003	-6.998756E-004	-5.248880E-003	-2.469574E-002
1192	3	-1.487444E-003	-7.002606E-004	-5.247667E-003	-2.471803E-002
1192	4	-1.489078E-003	-7.002245E-004	-5.256181E-003	-2.470888E-002
1193	1	-1.498543E-003	-2.894628E-003	-5.260410E-003	-7.391135E-002
1193	2	-1.481268E-003	-2.894572E-003	-5.226154E-003	-7.391211E-002
1193	3	-1.481128E-003	-2.896649E-003	-5.225872E-003	-7.398383E-002
1193	4	-1.498276E-003	-2.896614E-003	-5.260042E-003	-7.398458E-002
1194	1	-1.500822E-003	-3.497235E-003	-5.296884E-003	-1.234056E-001
1194	2	-1.486528E-003	-3.497215E-003	-5.244921E-003	-1.234064E-001
1194	3	-1.486280E-003	-3.500239E-003	-5.245006E-003	-1.235142E-001
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SEEP/W Input and Output Files

Transition Section

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SEEPH 4.22
TITLE



8/19/2004
4:20:35 PM
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TIME          10 +0.0000e+000 +1.0000e+000 +0.0000e+000 +1.5000e+000    10
1     1
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    2 +5.0000e-002 +6.0000e-002     1
    3 +2.2500e+000 +2.3100e+000     1
    4 +3.3750e+000 +5.6850e+000     1
    5 +5.8625e+000 +1.0748e+001     1
    6 +7.5938e+000 +1.8341e+001     1
    7 +1.1391e+001 +2.9732e+001     1
    8 +1.7086e+001 +4.6818e+001     1
    9 +2.5629e+001 +7.2447e+001     1
   10 +3.8443e+001 +1.1089e+002     1
MATERIAL        4
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    2     5     2 +1.0000e-001 +0.0000e+000
    3     4     3 +1.0000e-001 +0.0000e+000
    4     7     0 +1.0000e+000 +0.0000e+000
KFUNCTION       7
    1     3 +0.0000e+000 +1.5300e+000    13 -2.0000e+003 +4.0000e+002     0
1e-1 cm/sec
-1.0000e+000 +2.8341e+000
+0.0000e+000 +2.8341e+002
+1.0000e+001 +2.8341e+002
    2     3 +0.0000e+000 +1.5300e+000    13 -2.0000e+003 +4.0000e+002     0
1e-2
-1.0000e+000 +2.8340e-002
+0.0000e+000 +2.8340e+001
+1.0000e+001 +2.8340e+001
    4     3 +0.0000e+000 +1.5300e+000    13 -2.0000e+003 +4.0000e+002     0
1e-4
-1.0000e+000 +2.8339e-003
+0.0000e+000 +2.8339e-001
+1.0000e+001 +2.8339e-001
    5     3 +0.0000e+000 +1.5300e+000    13 -2.0000e+003 +4.0000e+002     0
1e-5cm/sec
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+0.0000e+000 +2.8340e-002
+1.0000e+001 +2.8340e-002
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1e-6
-1.0000e+000 +2.8340e-005
+0.0000e+000 +2.8341e-003
+1.0000e+001 +2.8341e-003
    7     3 +0.0000e+000 +1.5300e+000    13 -2.0000e+003 +4.0000e+002     0
1e-7cm/sec
-1.0000e+000 +2.8340e-006
+0.0000e+000 +2.8340e-004
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Fissure
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-1.0000e+000 +1.0000e-001
+0.0000e+000 +1.0000e-001
+1.0000e+001 +1.0000e-001
    2     2 +0.0000e+000 +1.5300e+000

+0.0000e+000 +1.0000e-003
+1.0000e+001 +1.0000e-003
    3     2 +0.0000e+000 +1.5300e+000
Common Fill
+0.0000e+000 +3.0000e-001
+1.0000e+001 +3.0000e-001
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MFUNCTION       0
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    6 -9.1576e+001 +1.3371e+002 +0.0000e+000 +0.0000e+000 200200 +0.0000e+000
    7 -9.1576e+001 +1.3811e+002 +0.0000e+000 +0.0000e+000 200200 +0.0000e+000
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  156 -3.0517e+001 +1.7776e+002 +0.0000e+000 +0.0000e+000 000000 +0.0000e+000
  157 -3.0515e+001 +1.7336e+002 +0.0000e+000 +0.0000e+000 000000 +0.0000e+000
  158 -3.0512e+001 +1.6896e+002 +0.0000e+000 +0.0000e+000 000000 +0.0000e+000
  159 -3.0509e+001 +1.6455e+002 +0.0000e+000 +0.0000e+000 000000 +0.0000e+000
```

```
40 -7.6313e+001 +1.9095e+002 +0.0000e+000 +0.0000e+000 000000 +0.0000e+000
41 -7.6312e+001 +1.7774e+002 +0.0000e+000 +0.0000e+000 000000 +0.0000e+000
```

```
160 -3.0507e+001 +1.6015e+002 +0.0000e+000 +0.0000e+000 000000 +0.0000e+000
161 -3.0504e+001 +1.5574e+002 +0.0000e+000 +0.0000e+000 000000 +0.0000e+000
```

162	-3.0501e+001	+1.5134e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
163	-3.0499e+001	+1.4693e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
164	-3.0496e+001	+1.4253e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
165	-3.0493e+001	+1.3813e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
166	-3.0491e+001	+1.3372e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
167	-3.0488e+001	+1.2932e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
168	-3.0485e+001	+1.2491e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
169	-3.0483e+001	+1.2051e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
170	-3.0480e+001	+1.1611e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
171	-3.0477e+001	+1.1170e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
172	-2.2894e+001	+1.9898e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
173	-2.2891e+001	+1.8658e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
174	-2.2888e+001	+1.8217e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
175	-2.2885e+001	+1.7777e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
176	-2.2882e+001	+1.7337e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
177	-2.2879e+001	+1.6896e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
178	-2.2876e+001	+1.6456e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
179	-2.2873e+001	+1.6015e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
180	-2.2870e+001	+1.5575e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
181	-2.2867e+001	+1.5134e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
182	-2.2864e+001	+1.4694e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
183	-2.2861e+001	+1.4253e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
184	-2.2858e+001	+1.3813e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
185	-2.2855e+001	+1.3372e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
186	-2.2852e+001	+1.2932e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
187	-2.2849e+001	+1.2492e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
188	-2.2846e+001	+1.2051e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
189	-2.2843e+001	+1.1611e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
190	-2.2840e+001	+1.1170e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
191	-1.5263e+001	+1.9099e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
192	-1.5259e+001	+1.8658e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
193	-1.5256e+001	+1.8218e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
194	-1.5253e+001	+1.7777e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
195	-1.5249e+001	+1.7337e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
196	-1.5246e+001	+1.6896e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
197	-1.5243e+001	+1.6456e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
198	-1.5239e+001	+1.6015e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
199	-1.5236e+001	+1.5575e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
200	-1.5233e+001	+1.5135e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
201	-1.5229e+001	+1.4694e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
202	-1.5226e+001	+1.4254e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
203	-1.5223e+001	+1.3813e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
204	-1.5219e+001	+1.3373e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
205	-1.5216e+001	+1.2932e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
206	-1.5213e+001	+1.2492e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
207	-1.5209e+001	+1.2051e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
208	-1.5206e+001	+1.1611e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
209	-1.5203e+001	+1.1170e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
210	-7.6314e+000	+1.9899e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
211	-7.6277e+000	+1.8659e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
212	-7.6240e+000	+1.8218e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
213	-7.6204e+000	+1.7778e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
214	-7.6167e+000	+1.7337e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
215	-7.6130e+000	+1.6897e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
216	-7.6094e+000	+1.6456e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
217	-7.6057e+000	+1.6016e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
218	-7.6020e+000	+1.5575e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
219	-7.5984e+000	+1.5135e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
220	-7.5947e+000	+1.4694e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
221	-7.5911e+000	+1.4254e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000

222	-7.5874e+000	+1.3813e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
223	-7.5837e+000	+1.3373e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
224	-7.5800e+000	+1.2932e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
225	-7.5764e+000	+1.2492e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
226	-7.5727e+000	+1.2051e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
227	-7.5691e+000	+1.1611e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
228	-7.5654e+000	+1.1170e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
229	+0.0000e+000	+1.9100e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
230	+3.9974e-003	+1.8659e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
231	+7.9949e-003	+1.8219e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
232	+1.1992e-002	+1.7778e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
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234	+1.9987e-002	+1.6897e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
235	+2.3985e-002	+1.6457e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
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237	+3.1980e-002	+1.5576e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
238	+3.5977e-002	+1.5135e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
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240	+4.3972e-002	+1.4254e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
241	+4.7969e-002	+1.3813e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
242	+5.1967e-002	+1.3373e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
243	+5.5964e-002	+1.2932e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
244	+5.9962e-002	+1.2492e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
245	+6.3959e-002	+1.2051e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
246	+6.7956e-002	+1.1611e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
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248	+7.8750e+000	+1.9138e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
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250	+7.8797e+000	+1.8252e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
251	+7.8820e+000	+1.7810e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
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253	+7.8867e+000	+1.6924e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
254	+7.8890e+000	+1.6482e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
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278	+1.5757e+001	+1.4727e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
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280	+1.5759e+001	+1.3393e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
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311	+3.1468e+001	+1.3862e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
312	+3.1471e+001	+1.4311e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
313	+3.1474e+001	+1.4760e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
314	+3.1476e+001	+1.5209e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
315	+3.1479e+001	+1.5658e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
316	+3.1482e+001	+1.6107e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
317	+3.1484e+001	+1.6556e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
318	+3.1487e+001	+1.7005e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
319	+3.1490e+001	+1.7454e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
320	+3.1492e+001	+1.7903e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
321	+3.1495e+001	+1.8352e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
322	+3.1497e+001	+1.8801e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
323	+3.1500e+001	+1.9250e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
324	+3.9298e+001	+1.1167e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
325	+3.9302e+001	+1.1618e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
326	+3.9306e+001	+1.2069e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
327	+3.9311e+001	+1.2520e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
328	+3.9315e+001	+1.2972e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
329	+3.9319e+001	+1.3423e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
330	+3.9324e+001	+1.3874e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
331	+3.9328e+001	+1.4325e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
332	+3.9332e+001	+1.4776e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
333	+3.9336e+001	+1.5227e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
334	+3.9341e+001	+1.5678e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
335	+3.9345e+001	+1.6129e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
336	+3.9349e+001	+1.6581e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
337	+3.9354e+001	+1.7032e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
338	+3.9358e+001	+1.7483e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
339	+3.9362e+001	+1.7934e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
340	+3.9366e+001	+1.8385e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
341	+3.9371e+001	+1.8836e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000

342	+3.9375e+001	+1.9288e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
343	+4.7143e+001	+1.1166e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
344	+4.7149e+001	+1.1620e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
345	+4.7155e+001	+1.2073e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
346	+4.7161e+001	+1.2526e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
347	+4.7167e+001	+1.2979e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
348	+4.7173e+001	+1.3433e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
349	+4.7179e+001	+1.3886e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
350	+4.7185e+001	+1.4339e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
351	+4.7190e+001	+1.4792e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
352	+4.7196e+001	+1.5246e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
353	+4.7202e+001	+1.5699e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
354	+4.7208e+001	+1.6152e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
355	+4.7214e+001	+1.6605e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
356	+4.7220e+001	+1.7059e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
357	+4.7226e+001	+1.7512e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
358	+4.7232e+001	+1.7965e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
359	+4.7238e+001	+1.8418e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
360	+4.7244e+001	+1.8872e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
361	+4.7250e+001	+1.9325e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
362	+5.4988e+001	+1.1166e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
363	+5.4996e+001	+1.1621e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
364	+5.5003e+001	+1.2076e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
365	+5.5011e+001	+1.2532e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
366	+5.5019e+001	+1.2987e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
367	+5.5026e+001	+1.3443e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
368	+5.5034e+001	+1.3898e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
369	+5.5041e+001	+1.4353e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
370	+5.5049e+001	+1.4809e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
371	+5.5057e+001	+1.5264e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
372	+5.5064e+001	+1.5720e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
373	+5.5072e+001	+1.6175e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
374	+5.5079e+001	+1.6630e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
375	+5.5087e+001	+1.7086e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
376	+5.5095e+001	+1.7541e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
377	+5.5102e+001	+1.7996e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
378	+5.5110e+001	+1.8452e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
379	+5.5117e+001	+1.8907e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
380	+5.5125e+001	+1.9363e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
381	+6.2833e+001	+1.1165e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
382	+6.2842e+001	+1.1623e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
383	+6.2852e+001	+1.2080e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
384	+6.2861e+001	+1.2538e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
385	+6.2870e+001	+1.2995e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
386	+6.2880e+001	+1.3453e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
387	+6.2889e+001	+1.3910e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
388	+6.2898e+001	+1.4368e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
389	+6.2907e+001	+1.4825e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
390	+6.2917e+001	+1.5283e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
391	+6.2926e+001	+1.5740e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
392	+6.2935e+001	+1.6198e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
393	+6.2944e+001	+1.6655e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
394	+6.2954e+001	+1.7113e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
395	+6.2963e+001	+1.7570e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
396	+6.2972e+001	+1.8027e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
397	+6.2981e+001	+1.8485e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
398	+6.2991e+001	+1.8943e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
399	+6.3000e+001	+1.9400e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
400	+6.6482e+001	+1.9539e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
401	+6.9964e+001	+1.9679e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000

402	+7.8883e+001	+1.1165e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
403	+7.8892e+001	+1.1623e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
404	+7.8900e+001	+1.2080e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
405	+7.8909e+001	+1.2538e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
406	+7.8917e+001	+1.2995e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
407	+7.8926e+001	+1.3453e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
408	+7.8934e+001	+1.3910e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
409	+7.8942e+001	+1.4368e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
410	+7.8951e+001	+1.4825e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
411	+7.8960e+001	+1.5283e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
412	+7.8968e+001	+1.5740e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
413	+7.8976e+001	+1.6198e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
414	+7.8985e+001	+1.6655e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
415	+7.8993e+001	+1.7113e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
416	+7.8002e+001	+1.7570e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
417	+7.8010e+001	+1.8027e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
418	+7.8019e+001	+1.8485e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
419	+7.8027e+001	+1.8943e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
420	+7.8036e+001	+1.9400e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
421	+7.8446e+001	+1.9818e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
422	+7.8020e+001	+1.9539e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
423	+7.6929e+001	+1.9957e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
424	+7.7005e+001	+1.9679e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
425	+7.8933e+001	+1.1165e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
426	+7.8941e+001	+1.1623e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
427	+7.8949e+001	+1.2080e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
428	+7.8956e+001	+1.2538e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
429	+7.8964e+001	+1.2995e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
430	+7.8972e+001	+1.3453e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
431	+7.8979e+001	+1.3910e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
432	+7.8987e+001	+1.4368e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
433	+7.8995e+001	+1.4825e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
434	+7.9002e+001	+1.5283e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
435	+7.9010e+001	+1.5740e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
436	+7.9018e+001	+1.6198e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
437	+7.9025e+001	+1.6655e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
438	+7.9033e+001	+1.7113e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
439	+7.9041e+001	+1.7570e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
440	+7.9048e+001	+1.8027e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
441	+7.9056e+001	+1.8485e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
442	+7.9064e+001	+1.8943e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
443	+7.9071e+001	+1.9400e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
444	+7.9938e+001	+1.9818e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
445	+8.0411e+001	+2.0096e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
446	+8.1559e+001	+1.9539e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
447	+8.2574e+001	+1.9957e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
448	+8.3893e+001	+2.0236e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
449	+8.4046e+001	+1.9679e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
450	+8.5959e+001	+2.0096e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
451	+8.6533e+001	+1.9818e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
452	+8.6983e+001	+1.1165e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
453	+8.6998e+001	+1.1623e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
454	+8.6997e+001	+1.2080e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
455	+8.7004e+001	+1.2538e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
456	+8.7011e+001	+1.2995e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
457	+8.7018e+001	+1.3453e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
458	+8.7024e+001	+1.3910e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
459	+8.7031e+001	+1.4368e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
460	+8.7038e+001	+1.4825e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
461	+8.7045e+001	+1.5283e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000

462	+8.7052e+001	+1.5740e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
463	+8.7059e+001	+1.6198e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
464	+8.7066e+001	+1.6655e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
465	+8.7073e+001	+1.7113e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
466	+8.7080e+001	+1.7570e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
467	+8.7087e+001	+1.8027e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
468	+8.7093e+001	+1.8485e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
469	+8.7100e+001	+1.8943e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
470	+8.7107e+001	+1.9400e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
471	+8.7375e+001	+2.0375e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
472	+8.8944e+001	+2.0236e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
473	+8.9821e+001	+1.9957e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
474	+8.9897e+001	+1.9539e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
475	+9.0857e+001	+2.0514e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
476	+9.1087e+001	+1.9679e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
477	+9.1500e+001	+2.0096e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
478	+9.1928e+001	+2.0375e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
479	+9.3076e+001	+1.9818e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
480	+9.3995e+001	+2.0236e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
481	+9.4339e+001	+2.0654e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
482	+9.4913e+001	+2.0514e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
483	+9.5033e+001	+1.1165e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
484	+9.5039e+001	+1.1623e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
485	+9.5045e+001	+1.2080e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
486	+9.5051e+001	+1.2538e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
487	+9.5058e+001	+1.2995e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
488	+9.5064e+001	+1.3453e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
489	+9.5066e+001	+1.3957e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
490	+9.5070e+001	+1.3910e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
491	+9.5076e+001	+1.4368e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
492	+9.5082e+001	+1.4825e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
493	+9.5088e+001	+1.5283e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
494	+9.5094e+001	+1.5740e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
495	+9.5100e+001	+1.6198e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
496	+9.5106e+001	+1.6655e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
497	+9.5112e+001	+1.7113e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
498	+9.5118e+001	+1.7570e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
499	+9.5125e+001	+1.8027e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
500	+9.5131e+001	+1.8485e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
501	+9.5137e+001	+1.8943e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
502	+9.5143e+001	+1.9400e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
503	+9.6482e+001	+2.0375e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
504	+9.6635e+001	+1.9539e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
505	+9.7056e+001	+2.0096e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
506	+9.7821e+001	+2.0793e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
507	+9.7898e+001	+2.0654e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
508	+9.8128e+001	+1.9679e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
509	+9.8969e+001	+2.0514e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
510	+9.9046e+001	+2.0236e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
511	+9.9620e+001	+1.9818e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
512	+1.0088e+002	+2.0793e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
513	+1.0184e+002	+2.0375e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
514	+1.0111e+002	+1.9957e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
515	+1.0130e+002	+2.0932e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
516	+1.0146e+002	+2.0654e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
517	+1.0261e+002	+2.0096e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
518	+1.0303e+002	+2.0514e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
519	+1.0308e+002	+1.1165e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
520	+1.0309e+002	+1.1623e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
521	+1.0309e+002	+1.2080e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000

522	+1.0310e+002	+1.2538e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
523	+1.0311e+002	+1.2995e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
524	+1.0311e+002	+1.3453e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
525	+1.0311e+002	+1.3910e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
526	+1.0312e+002	+1.4368e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
527	+1.0313e+002	+1.4825e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
528	+1.0313e+002	+1.5283e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
529	+1.0314e+002	+1.5740e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
530	+1.0314e+002	+1.6198e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
531	+1.0315e+002	+1.6655e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
532	+1.0315e+002	+1.7113e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
533	+1.0316e+002	+1.7570e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
534	+1.0316e+002	+1.8027e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
535	+1.0317e+002	+1.8485e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
536	+1.0317e+002	+1.8943e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
537	+1.0318e+002	+1.9400e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
538	+1.0387e+002	+2.0932e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
539	+1.0394e+002	+2.0793e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
540	+1.0410e+002	+2.0236e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
541	+1.0417e+002	+1.9539e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
542	+1.0479e+002	+2.1071e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
543	+1.0501e+002	+2.0654e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
544	+1.0517e+002	+1.9679e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
545	+1.0559e+002	+2.0375e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
546	+1.0616e+002	+1.9818e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
547	+1.0643e+002	+2.0932e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
548	+1.0685e+002	+2.1071e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
549	+1.0700e+002	+2.0793e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
550	+1.0708e+002	+2.0514e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
551	+1.0716e+002	+1.9957e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
552	+1.0815e+002	+2.0096e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
553	+1.0827e+002	+2.1211e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
554	+1.0857e+002	+2.0654e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
555	+1.0892e+002	+2.1071e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
556	+1.0900e+002	+2.0932e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
557	+1.0915e+002	+2.0236e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
558	+1.0984e+002	+2.1211e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
559	+1.1007e+002	+2.0793e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
560	+1.1014e+002	+2.0375e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
561	+1.1098e+002	+2.1071e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
562	+1.1113e+002	+1.1165e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
563	+1.1114e+002	+1.1623e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
564	+1.1114e+002	+1.2080e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
565	+1.1114e+002	+2.0514e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
566	+1.1115e+002	+1.2538e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
567	+1.1115e+002	+1.2995e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
568	+1.1116e+002	+1.3453e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
569	+1.1116e+002	+1.3910e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
570	+1.1117e+002	+1.4368e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
571	+1.1117e+002	+1.4825e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
572	+1.1117e+002	+1.5283e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
573	+1.1118e+002	+1.5740e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
574	+1.1118e+002	+1.6198e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
575	+1.1119e+002	+1.6655e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
576	+1.1119e+002	+1.7113e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
577	+1.1120e+002	+1.7570e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
578	+1.1120e+002	+1.8027e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
579	+1.1121e+002	+1.8485e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
580	+1.1121e+002	+1.8943e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
581	+1.1121e+002	+1.9400e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000

582	+1.1141e+002	+2.1211e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
583	+1.1156e+002	+2.0932e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
584	+1.1171e+002	+1.9539e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
585	+1.1175e+002	+2.1350e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
586	+1.1213e+002	+2.0654e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
587	+1.1221e+002	+1.9679e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
588	+1.1271e+002	+1.9818e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
589	+1.1282e+002	+2.1350e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
590	+1.1297e+002	+2.1211e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
591	+1.1305e+002	+2.1071e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
592	+1.1313e+002	+2.0793e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
593	+1.1320e+002	+1.9957e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
594	+1.1370e+002	+2.0096e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
595	+1.1389e+002	+2.1350e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
596	+1.1412e+002	+2.0932e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
597	+1.1420e+002	+2.0236e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
598	+1.1454e+002	+2.1211e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
599	+1.1470e+002	+2.0375e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
600	+1.1496e+002	+2.1350e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
601	+1.1512e+002	+2.1071e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
602	+1.1519e+002	+2.0514e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
603	+1.1569e+002	+2.0654e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
604	+1.1604e+002	+2.1350e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
605	+1.1611e+002	+2.1211e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
606	+1.1619e+002	+2.0793e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
607	+1.1669e+002	+2.0932e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
608	+1.1711e+002	+2.1350e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
609	+1.1718e+002	+2.1071e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
610	+1.1768e+002	+2.1211e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
611	+1.1818e+002	+2.1350e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
612	+1.1918e+002	+1.1165e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
613	+1.1919e+002	+1.1623e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
614	+1.1919e+002	+1.2080e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
615	+1.1919e+002	+1.2538e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
616	+1.1920e+002	+1.2995e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
617	+1.1920e+002	+1.3453e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
618	+1.1921e+002	+1.3910e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
619	+1.1921e+002	+1.4368e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
620	+1.1921e+002	+1.4825e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
621	+1.1922e+002	+1.5283e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
622	+1.1922e+002	+1.5740e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
623	+1.1922e+002	+1.6198e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
624	+1.1923e+002	+1.6655e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
625	+1.1923e+002	+1.7113e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
626	+1.1924e+002	+1.7570e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
627	+1.1924e+002	+1.8027e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
628	+1.1924e+002	+1.8485e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
629	+1.1925e+002	+1.8943e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
630	+1.1925e+002	+1.9400e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
631	+1.1925e+002	+1.9539e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
632	+1.1925e+002	+1.9679e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
633	+1.1925e+002	+1.9818e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
634	+1.1925e+002	+1.9957e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
635	+1.1925e+002	+2.0096e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
636	+1.1925e+002	+2.0236e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
637	+1.1925e+002	+2.0375e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
638	+1.1925e+002	+2.0514e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
639	+1.1925e+002	+2.0654e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
640	+1.1925e+002	+2.0793e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
641	+1.1925e+002	+2.0932e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000

642	+1.1925e+002	+2.1071e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
643	+1.1925e+002	+2.1211e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
644	+1.1925e+002	+2.1350e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
645	+1.2032e+002	+2.1350e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
646	+1.2082e+002	+2.1211e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
647	+1.2132e+002	+2.1071e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
648	+1.2139e+002	+2.1350e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
649	+1.2181e+002	+2.0932e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
650	+1.2231e+002	+2.0793e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
651	+1.2239e+002	+2.1211e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
652	+1.2246e+002	+2.1350e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
653	+1.2281e+002	+2.0654e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
654	+1.2331e+002	+2.0514e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
655	+1.2338e+002	+2.1071e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
656	+1.2354e+002	+2.1350e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
657	+1.2380e+002	+2.0375e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
658	+1.2396e+002	+2.1211e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
659	+1.2438e+002	+2.0236e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
660	+1.2438e+002	+2.0932e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
661	+1.2461e+002	+2.1350e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
662	+1.2480e+002	+2.0096e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
663	+1.2530e+002	+1.9957e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
664	+1.2537e+002	+2.0793e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
665	+1.2545e+002	+2.1071e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
666	+1.2553e+002	+2.1211e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
667	+1.2568e+002	+2.1350e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
668	+1.2579e+002	+1.9818e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
669	+1.2629e+002	+1.9679e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
670	+1.2637e+002	+2.0654e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
671	+1.2675e+002	+2.1350e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
672	+1.2679e+002	+1.9539e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
673	+1.2694e+002	+2.0932e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
674	+1.2709e+002	+2.1211e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
675	+1.2723e+002	+1.1165e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
676	+1.2724e+002	+1.1623e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
677	+1.2724e+002	+1.2080e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
678	+1.2724e+002	+1.2538e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
679	+1.2725e+002	+1.2995e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
680	+1.2725e+002	+1.3453e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
681	+1.2725e+002	+1.3910e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
682	+1.2725e+002	+1.4368e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
683	+1.2726e+002	+1.4825e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
684	+1.2726e+002	+1.5283e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
685	+1.2726e+002	+1.5740e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
686	+1.2727e+002	+1.6198e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
687	+1.2727e+002	+1.6655e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
688	+1.2727e+002	+1.7113e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
689	+1.2727e+002	+1.7570e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
690	+1.2728e+002	+1.8027e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
691	+1.2728e+002	+1.8485e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
692	+1.2728e+002	+1.8943e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
693	+1.2729e+002	+1.9400e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
694	+1.2736e+002	+2.0514e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
695	+1.2751e+002	+2.1071e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
696	+1.2836e+002	+2.0375e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
697	+1.2843e+002	+2.0793e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
698	+1.2866e+002	+2.1211e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
699	+1.2935e+002	+2.0236e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
700	+1.2951e+002	+2.0932e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
701	+1.2958e+002	+2.1071e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000

702	+1.2993e+002	+2.0654e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
703	+1.2996e+002	+2.1350e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
704	+1.3023e+002	+2.1211e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
705	+1.3035e+002	+2.0096e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
706	+1.3134e+002	+1.9957e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
707	+1.3142e+002	+2.0514e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
708	+1.3149e+002	+2.0793e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
709	+1.3165e+002	+2.1071e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
710	+1.3207e+002	+2.0932e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
711	+1.3234e+002	+1.9818e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
712	+1.3291e+002	+2.0375e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
713	+1.3318e+002	+2.1350e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
714	+1.3333e+002	+1.9679e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
715	+1.3346e+002	+2.1210e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
716	+1.3349e+002	+2.0654e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
717	+1.3371e+002	+2.1071e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
718	+1.3433e+002	+1.9539e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
719	+1.3440e+002	+2.0236e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
720	+1.3456e+002	+2.0793e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
721	+1.3463e+002	+2.0932e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
722	+1.3528e+002	+1.1165e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
723	+1.3529e+002	+1.1623e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
724	+1.3529e+002	+1.2080e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
725	+1.3529e+002	+1.2538e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
726	+1.3529e+002	+1.2995e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
727	+1.3529e+002	+1.3453e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
728	+1.3530e+002	+1.3910e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
729	+1.3530e+002	+1.4368e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
730	+1.3530e+002	+1.4825e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
731	+1.3530e+002	+1.5283e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
732	+1.3530e+002	+1.5740e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
733	+1.3531e+002	+1.6198e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
734	+1.3531e+002	+1.6655e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
735	+1.3531e+002	+1.7113e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
736	+1.3531e+002	+1.7570e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
737	+1.3532e+002	+1.8027e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
738	+1.3532e+002	+1.8485e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
739	+1.3532e+002	+1.8943e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
740	+1.3532e+002	+1.9400e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
741	+1.3548e+002	+2.0514e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
742	+1.3598e+002	+2.0096e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
743	+1.3639e+002	+2.1350e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
744	+1.3670e+002	+2.1209e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
745	+1.3696e+002	+2.1070e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
746	+1.3704e+002	+2.0654e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
747	+1.3720e+002	+2.0932e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
748	+1.3739e+002	+1.9957e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
749	+1.3746e+002	+2.0375e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
750	+1.3762e+002	+2.0793e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
751	+1.3888e+002	+1.9818e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
752	+1.3945e+002	+2.0236e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
753	+1.3953e+002	+2.0514e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
754	+1.3961e+002	+2.1350e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
755	+1.3993e+002	+2.1209e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
756	+1.4021e+002	+2.1069e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
757	+1.4037e+002	+1.9679e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
758	+1.4046e+002	+2.0939e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
759	+1.4060e+002	+2.0654e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
760	+1.4068e+002	+2.0793e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
761	+1.4144e+002	+2.0096e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000

762	+1.4187e+002	+1.9539e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
763	+1.4202e+002	+2.0375e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
764	+1.4202e+002	+2.1350e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
765	+1.4316e+002	+2.1208e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
766	+1.4333e+002	+1.1165e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
767	+1.4333e+002	+1.1623e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
768	+1.4334e+002	+1.2080e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
769	+1.4334e+002	+1.2538e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
770	+1.4334e+002	+1.2995e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
771	+1.4334e+002	+1.3453e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
772	+1.4334e+002	+1.3910e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
773	+1.4334e+002	+1.4368e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
774	+1.4334e+002	+1.4825e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
775	+1.4335e+002	+1.5283e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
776	+1.4335e+002	+1.5740e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
777	+1.4335e+002	+1.6198e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
778	+1.4335e+002	+1.6655e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
779	+1.4335e+002	+1.7113e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
780	+1.4335e+002	+1.7570e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
781	+1.4335e+002	+1.8027e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
782	+1.4335e+002	+1.8485e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
783	+1.4336e+002	+1.8943e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
784	+1.4336e+002	+1.9400e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
785	+1.4343e+002	+1.9957e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
786	+1.4346e+002	+2.1067e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
787	+1.4359e+002	+2.0514e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
788	+1.4373e+002	+2.0928e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
789	+1.4396e+002	+2.0790e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
790	+1.4416e+002	+2.0654e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
791	+1.4451e+002	+2.0236e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
792	+1.4542e+002	+1.9818e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
793	+1.4604e+002	+2.1350e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
794	+1.4639e+002	+2.1207e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
795	+1.4657e+002	+2.0375e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
796	+1.4671e+002	+2.1066e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
797	+1.4699e+002	+2.0096e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
798	+1.4700e+002	+2.0926e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
799	+1.4725e+002	+2.0787e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
800	+1.4741e+002	+1.9679e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
801	+1.4746e+002	+2.0650e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
802	+1.4764e+002	+2.0514e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
803	+1.4925e+002	+2.1350e+002	+0.0000e+000	+2.1350e+002	100000	+0.0000e+000
804	+1.4940e+002	+1.9539e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
805	+1.4948e+002	+1.9957e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
806	+1.4956e+002	+2.0236e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
807	+1.4963e+002	+2.1206e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
808	+1.4996e+002	+2.1064e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
809	+1.5027e+002	+2.0924e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
810	+1.5054e+002	+2.0784e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
811	+1.5077e+002	+2.0646e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
812	+1.5096e+002	+2.0510e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
813	+1.5113e+002	+2.0375e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
814	+1.5138e+002	+1.1165e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
815	+1.5138e+002	+1.1623e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
816	+1.5138e+002	+1.2080e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
817	+1.5138e+002	+1.2538e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
818	+1.5138e+002	+1.2995e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
819	+1.5139e+002	+1.3453e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
820	+1.5139e+002	+1.3910e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
821	+1.5139e+002	+1.4368e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000

822	+1.5139e+002	+1.4825e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
823	+1.5139e+002	+1.5283e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
824	+1.5139e+002	+1.5740e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
825	+1.5139e+002	+1.6198e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
826	+1.5139e+002	+1.6655e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
827	+1.5139e+002	+1.7113e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
828	+1.5139e+002	+1.7570e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
829	+1.5139e+002	+1.8027e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
830	+1.5139e+002	+1.8485e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
831	+1.5139e+002	+1.8943e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
832	+1.5139e+002	+1.9400e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
833	+1.5197e+002	+1.9818e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
834	+1.5254e+002	+2.0096e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
835	+1.5286e+002	+2.1206e+002	+0.0000e+000	+2.1350e+002	100000	+0.0000e+000
836	+1.5321e+002	+2.1063e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
837	+1.5354e+002	+2.0921e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
838	+1.5382e+002	+2.0781e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
839	+1.5407e+002	+2.0643e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
840	+1.5429e+002	+2.0506e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
841	+1.5445e+002	+1.9679e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
842	+1.5446e+002	+2.0370e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
843	+1.5461e+002	+2.0236e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
844	+1.5553e+002	+1.9957e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
845	+1.5646e+002	+2.1061e+002	+0.0000e+000	+2.1350e+002	100000	+0.0000e+000
846	+1.5680e+002	+2.0919e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
847	+1.5694e+002	+1.9539e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
848	+1.5711e+002	+2.0779e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
849	+1.5738e+002	+2.0639e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
850	+1.5761e+002	+2.0501e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
851	+1.5780e+002	+2.0365e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
852	+1.5796e+002	+2.0230e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
853	+1.5809e+002	+2.0096e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
854	+1.5851e+002	+1.9818e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
855	+1.5943e+002	+1.1165e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
856	+1.5943e+002	+1.1623e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
857	+1.5943e+002	+1.2080e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
858	+1.5943e+002	+1.2538e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
859	+1.5943e+002	+1.2995e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
860	+1.5943e+002	+1.3453e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
861	+1.5943e+002	+1.3910e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
862	+1.5943e+002	+1.4368e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
863	+1.5943e+002	+1.4825e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
864	+1.5943e+002	+1.5283e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
865	+1.5943e+002	+1.5740e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
866	+1.5943e+002	+1.6198e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
867	+1.5943e+002	+1.6655e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
868	+1.5943e+002	+1.7113e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
869	+1.5943e+002	+1.7570e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
870	+1.5943e+002	+1.8027e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
871	+1.5943e+002	+1.8485e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
872	+1.5943e+002	+1.8943e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
873	+1.5943e+002	+1.9400e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
874	+1.6007e+002	+2.0917e+002	+0.0000e+000	+2.1350e+002	100000	+0.0000e+000
875	+1.6039e+002	+2.0776e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
876	+1.6068e+002	+2.0636e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
877	+1.6093e+002	+2.0497e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
878	+1.6114e+002	+2.0360e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
879	+1.6132e+002	+2.0224e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
880	+1.6146e+002	+2.0090e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
881	+1.6149e+002	+1.9679e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000

882	+1.6157e+002	+1.9957e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
883	+1.6368e+002	+2.0773e+002	+0.0000e+000	+2.1350e+002	100000	+0.0000e+000
884	+1.6398e+002	+2.0632e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
885	+1.6425e+002	+2.0493e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
886	+1.6448e+002	+1.9539e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
887	+1.6448e+002	+2.0355e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
888	+1.6468e+002	+2.0219e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
889	+1.6484e+002	+2.0084e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
890	+1.6496e+002	+1.9950e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
891	+1.6505e+002	+1.9818e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
892	+1.6729e+002	+2.0629e+002	+0.0000e+000	+2.1350e+002	100000	+0.0000e+000
893	+1.6746e+002	+1.8943e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
894	+1.6746e+002	+1.9480e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
895	+1.6747e+002	+1.5283e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
896	+1.6747e+002	+1.5740e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
897	+1.6747e+002	+1.6198e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
898	+1.6747e+002	+1.6655e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
899	+1.6747e+002	+1.7113e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
900	+1.6747e+002	+1.7570e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
901	+1.6747e+002	+1.8027e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
902	+1.6747e+002	+1.8485e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
903	+1.6748e+002	+1.1165e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
904	+1.6748e+002	+1.1623e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
905	+1.6748e+002	+1.2080e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
906	+1.6748e+002	+1.2538e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
907	+1.6748e+002	+1.2995e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
908	+1.6748e+002	+1.3453e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
909	+1.6748e+002	+1.3910e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
910	+1.6748e+002	+1.4368e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
911	+1.6748e+002	+1.4825e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
912	+1.6757e+002	+2.0489e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
913	+1.6782e+002	+2.0350e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
914	+1.6804e+002	+2.0213e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
915	+1.6821e+002	+2.0077e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
916	+1.6836e+002	+1.9943e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
917	+1.6846e+002	+1.9810e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
918	+1.6854e+002	+1.9679e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
919	+1.7089e+002	+2.0484e+002	+0.0000e+000	+2.1350e+002	100000	+0.0000e+000
920	+1.7116e+002	+2.0345e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
921	+1.7139e+002	+2.0207e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
922	+1.7159e+002	+2.0071e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
923	+1.7175e+002	+1.9936e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
924	+1.7188e+002	+1.9802e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
925	+1.7196e+002	+1.9670e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
926	+1.7202e+002	+1.9539e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
927	+1.7450e+002	+2.0340e+002	+0.0000e+000	+2.1350e+002	100000	+0.0000e+000
928	+1.7475e+002	+2.0201e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
929	+1.7496e+002	+2.0064e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
930	+1.7514e+002	+1.9929e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
931	+1.7529e+002	+1.9794e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
932	+1.7539e+002	+1.9661e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
933	+1.7546e+002	+1.9530e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
934	+1.7550e+002	+1.8485e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
935	+1.7550e+002	+1.8943e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
936	+1.7550e+002	+1.9400e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
937	+1.7551e+002	+1.5740e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
938	+1.7551e+002	+1.6198e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
939	+1.7551e+002	+1.6655e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
940	+1.7551e+002	+1.7113e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
941	+1.7551e+002	+1.7570e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000

942	+1.7551e+002	+1.8027e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
943	+1.7552e+002	+1.3453e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
944	+1.7552e+002	+1.3910e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
945	+1.7552e+002	+1.4368e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
946	+1.7552e+002	+1.4825e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
947	+1.7552e+002	+1.5283e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
948	+1.7553e+002	+1.1165e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
949	+1.7553e+002	+1.1623e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
950	+1.7553e+002	+1.2080e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
951	+1.7553e+002	+1.2538e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
952	+1.7553e+002	+1.2995e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
953	+1.7811e+002	+2.0196e+002	+0.0000e+000	+2.1350e+002	100000	+0.0000e+000
954	+1.7834e+002	+2.0058e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
955	+1.7854e+002	+1.9921e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
956	+1.7870e+002	+1.9786e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
957	+1.7882e+002	+1.9653e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
958	+1.7891e+002	+1.9521e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
959	+1.7896e+002	+1.9263e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
960	+1.7896e+002	+1.9390e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
961	+1.8018e+002	+1.8944e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
962	+1.8036e+002	+1.8481e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
963	+1.8047e+002	+1.8027e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
964	+1.8048e+002	+1.5283e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
965	+1.8048e+002	+1.5740e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
966	+1.8048e+002	+1.6198e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
967	+1.8048e+002	+1.6655e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
968	+1.8048e+002	+1.7112e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
969	+1.8048e+002	+1.7570e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
970	+1.8049e+002	+1.2080e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
971	+1.8049e+002	+1.2538e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
972	+1.8049e+002	+1.2995e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
973	+1.8049e+002	+1.3453e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
974	+1.8049e+002	+1.3910e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
975	+1.8049e+002	+1.4368e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
976	+1.8049e+002	+1.4825e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
977	+1.8050e+002	+1.1165e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
978	+1.8050e+002	+1.1623e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
979	+1.8171e+002	+2.0051e+002	+0.0000e+000	+2.1350e+002	100000	+0.0000e+000
980	+1.8193e+002	+1.9914e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
981	+1.8211e+002	+1.9779e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
982	+1.8225e+002	+1.9644e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
983	+1.8236e+002	+1.9511e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
984	+1.8243e+002	+1.9128e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
985	+1.8243e+002	+1.9380e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
986	+1.8531e+002	+1.8481e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
987	+1.8532e+002	+1.9907e+002	+0.0000e+000	+2.1350e+002	100000	+0.0000e+000
988	+1.8544e+002	+1.7112e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
989	+1.8544e+002	+1.7570e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
990	+1.8544e+002	+1.8027e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
991	+1.8545e+002	+1.4368e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
992	+1.8545e+002	+1.4825e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
993	+1.8545e+002	+1.5283e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
994	+1.8545e+002	+1.5740e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
995	+1.8545e+002	+1.6198e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
996	+1.8545e+002	+1.6655e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
997	+1.8546e+002	+1.1165e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
998	+1.8546e+002	+1.1623e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
999	+1.8546e+002	+1.2080e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1000	+1.8546e+002	+1.2538e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1001	+1.8546e+002	+1.2995e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000

1002	+1.8546e+002	+1.3453e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1003	+1.8546e+002	+1.3910e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1004	+1.8552e+002	+1.9771e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1005	+1.8568e+002	+1.9636e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1006	+1.8580e+002	+1.9502e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1007	+1.8589e+002	+1.9370e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1008	+1.8590e+002	+1.8989e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1009	+1.8893e+002	+1.9763e+002	+0.0000e+000	+2.1350e+002	100000	+0.0000e+000
1010	+1.8911e+002	+1.9627e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1011	+1.8925e+002	+1.9493e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1012	+1.8926e+002	+1.8856e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1013	+1.8934e+002	+1.9982e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1014	+1.8936e+002	+1.9360e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1015	+1.9026e+002	+1.8481e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1016	+1.9041e+002	+1.5740e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1017	+1.9041e+002	+1.6198e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1018	+1.9041e+002	+1.6655e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1019	+1.9041e+002	+1.7112e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1020	+1.9041e+002	+1.7570e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1021	+1.9041e+002	+1.8027e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1022	+1.9042e+002	+1.2995e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1023	+1.9042e+002	+1.3453e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1024	+1.9042e+002	+1.3910e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1025	+1.9042e+002	+1.4368e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1026	+1.9042e+002	+1.4825e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1027	+1.9042e+002	+1.5283e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1028	+1.9043e+002	+1.1166e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1029	+1.9043e+002	+1.1623e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1030	+1.9043e+002	+1.2081e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1031	+1.9043e+002	+1.2538e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1032	+1.9254e+002	+1.9619e+002	+0.0000e+000	+2.1350e+002	100000	+0.0000e+000
1033	+1.9270e+002	+1.9484e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1034	+1.9282e+002	+1.8711e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1035	+1.9282e+002	+1.9082e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1036	+1.9282e+002	+1.9350e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1037	+1.9538e+002	+1.4825e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1038	+1.9538e+002	+1.5283e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1039	+1.9538e+002	+1.5740e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1040	+1.9538e+002	+1.6197e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1041	+1.9538e+002	+1.6655e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1042	+1.9538e+002	+1.7112e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1043	+1.9538e+002	+1.7570e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1044	+1.9538e+002	+1.8027e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1045	+1.9539e+002	+1.1166e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1046	+1.9539e+002	+1.1623e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1047	+1.9539e+002	+1.2081e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1048	+1.9539e+002	+1.2538e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1049	+1.9539e+002	+1.2996e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1050	+1.9539e+002	+1.3453e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1051	+1.9539e+002	+1.3910e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1052	+1.9539e+002	+1.4368e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1053	+1.9614e+002	+1.9474e+002	+0.0000e+000	+2.1350e+002	100000	+0.0000e+000
1054	+1.9629e+002	+1.8572e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1055	+1.9629e+002	+1.8818e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1056	+1.9629e+002	+1.9077e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1057	+1.9629e+002	+1.9340e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1058	+1.9975e+002	+1.9330e+002	+0.0000e+000	+2.1350e+002	100000	+0.0000e+000
1059	+2.0034e+002	+1.7112e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1060	+2.0034e+002	+1.7570e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1061	+2.0034e+002	+1.8027e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000

1062	+2.0035e+002	+1.2996e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1063	+2.0035e+002	+1.3453e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1064	+2.0035e+002	+1.3910e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1065	+2.0035e+002	+1.4368e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1066	+2.0035e+002	+1.4825e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1067	+2.0035e+002	+1.5283e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1068	+2.0035e+002	+1.5740e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1069	+2.0035e+002	+1.6197e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1070	+2.0035e+002	+1.6655e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1071	+2.0036e+002	+1.1166e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1072	+2.0036e+002	+1.1623e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1073	+2.0036e+002	+1.2081e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1074	+2.0036e+002	+1.2538e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1075	+2.0056e+002	+1.9873e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1076	+2.0138e+002	+1.8815e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1077	+2.0219e+002	+1.8557e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1078	+2.0300e+002	+1.8300e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1079	+2.0531e+002	+1.6197e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1080	+2.0531e+002	+1.6655e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1081	+2.0531e+002	+1.7112e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1082	+2.0531e+002	+1.7570e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1083	+2.0531e+002	+1.8027e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1084	+2.0532e+002	+1.1166e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1085	+2.0532e+002	+1.1624e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1086	+2.0532e+002	+1.2081e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1087	+2.0532e+002	+1.2538e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1088	+2.0532e+002	+1.2996e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1089	+2.0532e+002	+1.3453e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1090	+2.0532e+002	+1.3910e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1091	+2.0532e+002	+1.4368e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1092	+2.0532e+002	+1.4825e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1093	+2.0532e+002	+1.5283e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1094	+2.0532e+002	+1.5740e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1095	+2.0541e+002	+1.9307e+002	+0.0000e+000	+2.1350e+002	100000	+0.0000e+000
1096	+2.0559e+002	+1.9856e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1097	+2.0577e+002	+1.8804e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1098	+2.0595e+002	+1.8552e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1099	+2.0613e+002	+1.8300e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1100	+2.0925e+002	+1.8380e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1101	+2.0970e+002	+1.8546e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1102	+2.1016e+002	+1.8793e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1103	+2.1028e+002	+1.4368e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1104	+2.1028e+002	+1.4825e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1105	+2.1028e+002	+1.5283e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1106	+2.1028e+002	+1.5740e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1107	+2.1028e+002	+1.6197e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1108	+2.1028e+002	+1.6655e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1109	+2.1028e+002	+1.7112e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1110	+2.1028e+002	+1.7569e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1111	+2.1028e+002	+1.8027e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1112	+2.1029e+002	+1.1166e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1113	+2.1029e+002	+1.1624e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1114	+2.1029e+002	+1.2081e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1115	+2.1029e+002	+1.2539e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1116	+2.1029e+002	+1.2996e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1117	+2.1029e+002	+1.3453e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1118	+2.1029e+002	+1.3910e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1119	+2.1061e+002	+1.9039e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1120	+2.1106e+002	+1.9285e+002	+0.0000e+000	+2.1350e+002	100000	+0.0000e+000
1121	+2.1238e+002	+1.8380e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000

1122	+2.1346e+002	+1.8541e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1123	+2.1455e+002	+1.8781e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1124	+2.1524e+002	+1.7112e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1125	+2.1524e+002	+1.7569e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1126	+2.1524e+002	+1.8027e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1127	+2.1525e+002	+1.2081e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1128	+2.1525e+002	+1.2539e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1129	+2.1525e+002	+1.2996e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1130	+2.1525e+002	+1.3453e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1131	+2.1525e+002	+1.3911e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1132	+2.1525e+002	+1.4368e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1133	+2.1525e+002	+1.4825e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1134	+2.1525e+002	+1.5283e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1135	+2.1525e+002	+1.5740e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1136	+2.1525e+002	+1.6197e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1137	+2.1525e+002	+1.6655e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1138	+2.1526e+002	+1.1167e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1139	+2.1526e+002	+1.1624e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1140	+2.1558e+002	+1.8300e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1141	+2.1563e+002	+1.9022e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1142	+2.1672e+002	+1.9263e+002	+0.0000e+000	+2.1350e+002	100000	+0.0000e+000
1143	+2.1722e+002	+1.8535e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1144	+2.1863e+002	+1.8300e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1145	+2.1894e+002	+1.8770e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1146	+2.2021e+002	+1.5740e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1147	+2.2021e+002	+1.6197e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1148	+2.2021e+002	+1.6655e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1149	+2.2021e+002	+1.7112e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1150	+2.2021e+002	+1.7569e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1151	+2.2021e+002	+1.8026e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1152	+2.2022e+002	+1.1167e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1153	+2.2022e+002	+1.1624e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1154	+2.2022e+002	+1.2081e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1155	+2.2022e+002	+1.2539e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1156	+2.2022e+002	+1.2996e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1157	+2.2022e+002	+1.3453e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1158	+2.2022e+002	+1.3911e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1159	+2.2022e+002	+1.4368e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1160	+2.2022e+002	+1.4825e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1161	+2.2022e+002	+1.5283e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1162	+2.2066e+002	+1.9005e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1163	+2.2098e+002	+1.8529e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1164	+2.2175e+002	+1.8300e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1165	+2.2238e+002	+1.9240e+002	+0.0000e+000	+2.1350e+002	100000	+0.0000e+000
1166	+2.2333e+002	+1.8759e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1167	+2.2473e+002	+1.8524e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1168	+2.2488e+002	+1.8300e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1169	+2.2518e+002	+1.2539e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1170	+2.2518e+002	+1.2996e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1171	+2.2518e+002	+1.3454e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1172	+2.2518e+002	+1.3911e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1173	+2.2518e+002	+1.4368e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1174	+2.2518e+002	+1.4825e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1175	+2.2518e+002	+1.5283e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1176	+2.2518e+002	+1.5740e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1177	+2.2518e+002	+1.6197e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1178	+2.2518e+002	+1.6654e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1179	+2.2518e+002	+1.7112e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1180	+2.2518e+002	+1.7569e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1181	+2.2518e+002	+1.8026e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000

1182	+2.2519e+002	+1.1167e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1183	+2.2519e+002	+1.1624e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1184	+2.2519e+002	+1.2082e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1185	+2.2568e+002	+1.8988e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1186	+2.2772e+002	+1.8748e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1187	+2.2800e+002	+1.8300e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1188	+2.2803e+002	+1.9218e+002	+0.0000e+000	+2.1350e+002	100000	+0.0000e+000
1189	+2.2849e+002	+1.8518e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1190	+2.3015e+002	+1.1167e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1191	+2.3015e+002	+1.1624e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1192	+2.3015e+002	+1.2082e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1193	+2.3015e+002	+1.2539e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1194	+2.3015e+002	+1.2996e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1195	+2.3015e+002	+1.3454e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1196	+2.3015e+002	+1.3911e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1197	+2.3015e+002	+1.4368e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1198	+2.3015e+002	+1.4825e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1199	+2.3015e+002	+1.5283e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1200	+2.3015e+002	+1.5740e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1201	+2.3015e+002	+1.6197e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1202	+2.3015e+002	+1.6654e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1203	+2.3015e+002	+1.7112e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1204	+2.3015e+002	+1.7569e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1205	+2.3015e+002	+1.8026e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1206	+2.3078e+002	+1.8971e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1207	+2.3211e+002	+1.8736e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1208	+2.3225e+002	+1.8513e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1209	+2.3369e+002	+1.9195e+002	+0.0000e+000	+2.1350e+002	100000	+0.0000e+000
1210	+2.3511e+002	+1.6197e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1211	+2.3511e+002	+1.6654e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1212	+2.3511e+002	+1.7112e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1213	+2.3511e+002	+1.7569e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1214	+2.3511e+002	+1.8026e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1215	+2.3512e+002	+1.1167e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1216	+2.3512e+002	+1.1625e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1217	+2.3512e+002	+1.2082e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1218	+2.3512e+002	+1.2539e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1219	+2.3512e+002	+1.2996e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1220	+2.3512e+002	+1.3454e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1221	+2.3512e+002	+1.3911e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1222	+2.3512e+002	+1.4368e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1223	+2.3512e+002	+1.4825e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1224	+2.3512e+002	+1.5283e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1225	+2.3512e+002	+1.5740e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1226	+2.3573e+002	+1.8954e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1227	+2.3650e+002	+1.8725e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1228	+2.3934e+002	+1.9172e+002	+0.0000e+000	+2.1350e+002	100000	+0.0000e+000
1229	+2.4008e+002	+1.1168e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1230	+2.4008e+002	+1.1625e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1231	+2.4008e+002	+1.2082e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1232	+2.4008e+002	+1.2539e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1233	+2.4008e+002	+1.2996e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1234	+2.4008e+002	+1.3454e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1235	+2.4008e+002	+1.3911e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1236	+2.4008e+002	+1.4368e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1237	+2.4008e+002	+1.4825e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1238	+2.4008e+002	+1.5283e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1239	+2.4008e+002	+1.5740e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1240	+2.4008e+002	+1.6197e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1241	+2.4008e+002	+1.6654e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000

1242	+2.4008e+002	+1.7112e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1243	+2.4008e+002	+1.7569e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1244	+2.4008e+002	+1.8026e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1245	+2.4075e+002	+1.8938e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1246	+2.4590e+002	+1.8680e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1247	+2.4500e+002	+1.9150e+002	+0.0000e+000	+2.1350e+002	100000	+0.0000e+000
1248	+2.4501e+002	+1.6802e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1249	+2.4501e+002	+1.7272e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1250	+2.4501e+002	+1.7741e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1251	+2.4501e+002	+1.8211e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1252	+2.4502e+002	+1.4924e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1253	+2.4502e+002	+1.5394e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1254	+2.4502e+002	+1.5863e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1255	+2.4502e+002	+1.6333e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1256	+2.4503e+002	+1.3515e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1257	+2.4503e+002	+1.3985e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1258	+2.4503e+002	+1.4454e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1259	+2.4504e+002	+1.1637e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1260	+2.4504e+002	+1.2107e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1261	+2.4504e+002	+1.2576e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1262	+2.4504e+002	+1.3046e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1263	+2.4505e+002	+1.1168e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1264	+2.5145e+002	+1.9151e+002	+0.0000e+000	+2.1350e+002	100000	+0.0000e+000
1265	+2.5146e+002	+1.7273e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1266	+2.5146e+002	+1.7742e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1267	+2.5146e+002	+1.8212e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1268	+2.5146e+002	+1.8681e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1269	+2.5147e+002	+1.5864e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1270	+2.5147e+002	+1.6333e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1271	+2.5147e+002	+1.6803e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1272	+2.5148e+002	+1.3985e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1273	+2.5148e+002	+1.4455e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1274	+2.5148e+002	+1.4925e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1275	+2.5148e+002	+1.5394e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1276	+2.5149e+002	+1.2107e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1277	+2.5149e+002	+1.2577e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1278	+2.5149e+002	+1.3046e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1279	+2.5149e+002	+1.3516e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1280	+2.5150e+002	+1.1168e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1281	+2.5150e+002	+1.1638e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1282	+2.5791e+002	+1.8212e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1283	+2.5791e+002	+1.8682e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1284	+2.5791e+002	+1.9151e+002	+0.0000e+000	+2.1350e+002	100000	+0.0000e+000
1285	+2.5792e+002	+1.5864e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1286	+2.5792e+002	+1.6334e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1287	+2.5792e+002	+1.6804e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1288	+2.5792e+002	+1.7273e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1289	+2.5792e+002	+1.7743e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1290	+2.5793e+002	+1.3986e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1291	+2.5793e+002	+1.4455e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1292	+2.5793e+002	+1.4925e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1293	+2.5793e+002	+1.5395e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1294	+2.5794e+002	+1.2107e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1295	+2.5794e+002	+1.2577e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1296	+2.5794e+002	+1.3047e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1297	+2.5794e+002	+1.3516e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1298	+2.5795e+002	+1.1168e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1299	+2.5795e+002	+1.1638e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1300	+2.6436e+002	+1.8683e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1301	+2.6436e+002	+1.9152e+002	+0.0000e+000	+2.1350e+002	100000	+0.0000e+000

1302	+2.6437e+002	+1.6804e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1303	+2.6437e+002	+1.7274e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1304	+2.6437e+002	+1.7743e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1305	+2.6437e+002	+1.8213e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1306	+2.6438e+002	+1.4926e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1307	+2.6438e+002	+1.5395e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1308	+2.6438e+002	+1.5865e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1309	+2.6438e+002	+1.6335e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1310	+2.6439e+002	+1.2578e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1311	+2.6439e+002	+1.3047e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1312	+2.6439e+002	+1.3517e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1313	+2.6439e+002	+1.3986e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1314	+2.6439e+002	+1.4456e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1315	+2.6440e+002	+1.1169e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1316	+2.6440e+002	+1.1638e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1317	+2.6440e+002	+1.2108e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1318	+2.7082e+002	+1.7744e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1319	+2.7082e+002	+1.8214e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1320	+2.7082e+002	+1.8683e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1321	+2.7082e+002	+1.9153e+002	+0.0000e+000	+2.1350e+002	100000	+0.0000e+000
1322	+2.7083e+002	+1.4926e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1323	+2.7083e+002	+1.5396e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1324	+2.7083e+002	+1.5865e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1325	+2.7083e+002	+1.6335e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1326	+2.7083e+002	+1.6805e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1327	+2.7083e+002	+1.7274e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1328	+2.7084e+002	+1.3048e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1329	+2.7084e+002	+1.3517e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1330	+2.7084e+002	+1.3987e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1331	+2.7084e+002	+1.4457e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1332	+2.7085e+002	+1.1169e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1333	+2.7085e+002	+1.1639e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1334	+2.7085e+002	+1.2108e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1335	+2.7085e+002	+1.2578e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1336	+2.7727e+002	+1.8214e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1337	+2.7727e+002	+1.8684e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1338	+2.7727e+002	+1.9154e+002	+0.0000e+000	+2.1350e+002	100000	+0.0000e+000
1339	+2.7728e+002	+1.5866e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1340	+2.7728e+002	+1.6336e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1341	+2.7728e+002	+1.6805e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1342	+2.7728e+002	+1.7275e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1343	+2.7728e+002	+1.7745e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1344	+2.7729e+002	+1.3048e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1345	+2.7729e+002	+1.3518e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1346	+2.7729e+002	+1.3987e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1347	+2.7729e+002	+1.4457e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1348	+2.7729e+002	+1.4927e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1349	+2.7729e+002	+1.5396e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1350	+2.7730e+002	+1.1169e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1351	+2.7730e+002	+1.1639e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1352	+2.7730e+002	+1.2109e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1353	+2.7730e+002	+1.2578e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1354	+2.8373e+002	+1.6336e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1355	+2.8373e+002	+1.6806e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1356	+2.8373e+002	+1.7276e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1357	+2.8373e+002	+1.7745e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1358	+2.8373e+002	+1.8215e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1359	+2.8373e+002	+1.8685e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1360	+2.8373e+002	+1.9154e+002	+0.0000e+000	+2.1350e+002	100000	+0.0000e+000
1361	+2.8374e+002	+1.3048e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000

1362	+2.8374e+002	+1.3518e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1363	+2.8374e+002	+1.3988e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1364	+2.8374e+002	+1.4457e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1365	+2.8374e+002	+1.4927e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1366	+2.8374e+002	+1.5397e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1367	+2.8374e+002	+1.5867e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1368	+2.8375e+002	+1.1170e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1369	+2.8375e+002	+1.1639e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1370	+2.8375e+002	+1.2109e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1371	+2.8375e+002	+1.2579e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1372	+2.9018e+002	+1.7276e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1373	+2.9018e+002	+1.7746e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1374	+2.9018e+002	+1.8216e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1375	+2.9018e+002	+1.8685e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1376	+2.9018e+002	+1.9155e+002	+0.0000e+000	+2.1350e+002	100000	+0.0000e+000
1377	+2.9019e+002	+1.3988e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1378	+2.9019e+002	+1.4458e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1379	+2.9019e+002	+1.4928e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1380	+2.9019e+002	+1.5398e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1381	+2.9019e+002	+1.5867e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1382	+2.9019e+002	+1.6337e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1383	+2.9019e+002	+1.6807e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1384	+2.9020e+002	+1.1170e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1385	+2.9020e+002	+1.1640e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1386	+2.9020e+002	+1.2109e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1387	+2.9020e+002	+1.2579e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1388	+2.9020e+002	+1.3049e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1389	+2.9020e+002	+1.3519e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1390	+2.9663e+002	+1.8686e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1391	+2.9663e+002	+1.9156e+002	+0.0000e+000	+2.1350e+002	100000	+0.0000e+000
1392	+2.9664e+002	+1.4459e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1393	+2.9664e+002	+1.4928e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1394	+2.9664e+002	+1.5398e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1395	+2.9664e+002	+1.5868e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1396	+2.9664e+002	+1.6338e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1397	+2.9664e+002	+1.6807e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1398	+2.9664e+002	+1.7277e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1399	+2.9664e+002	+1.7747e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1400	+2.9664e+002	+1.8216e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1401	+2.9665e+002	+1.1170e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1402	+2.9665e+002	+1.1640e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1403	+2.9665e+002	+1.2110e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1404	+2.9665e+002	+1.2579e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1405	+2.9665e+002	+1.3049e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1406	+2.9665e+002	+1.3519e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1407	+2.9665e+002	+1.3989e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1408	+3.0309e+002	+1.5868e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1409	+3.0309e+002	+1.6338e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1410	+3.0309e+002	+1.6808e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1411	+3.0309e+002	+1.7278e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1412	+3.0309e+002	+1.7747e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1413	+3.0309e+002	+1.8217e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1414	+3.0309e+002	+1.8687e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1415	+3.0309e+002	+1.9157e+002	+0.0000e+000	+2.1350e+002	100000	+0.0000e+000
1416	+3.0310e+002	+1.1171e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1417	+3.0310e+002	+1.1640e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1418	+3.0310e+002	+1.2110e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1419	+3.0310e+002	+1.2580e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1420	+3.0310e+002	+1.3050e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1421	+3.0310e+002	+1.3520e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000

1422	+3.0310e+002	+1.3989e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1423	+3.0310e+002	+1.4459e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1424	+3.0310e+002	+1.4929e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1425	+3.0310e+002	+1.5399e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1426	+3.0954e+002	+1.7278e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1427	+3.0954e+002	+1.7748e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1428	+3.0954e+002	+1.8218e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1429	+3.0954e+002	+1.8688e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1430	+3.0954e+002	+1.9157e+002	+0.0000e+000	+2.1350e+002	100000	+0.0000e+000
1431	+3.0955e+002	+1.1171e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1432	+3.0955e+002	+1.1641e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1433	+3.0955e+002	+1.2111e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1434	+3.0955e+002	+1.2580e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1435	+3.0955e+002	+1.3050e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1436	+3.0955e+002	+1.3520e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1437	+3.0955e+002	+1.3990e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1438	+3.0955e+002	+1.4460e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1439	+3.0955e+002	+1.4929e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1440	+3.0955e+002	+1.5399e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1441	+3.0955e+002	+1.5869e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1442	+3.0955e+002	+1.6339e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1443	+3.0955e+002	+1.6808e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1444	+3.1599e+002	+1.9158e+002	+0.0000e+000	+2.1350e+002	100000	+0.0000e+000
1445	+3.1600e+002	+1.2111e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1446	+3.1600e+002	+1.2581e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1447	+3.1600e+002	+1.3051e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1448	+3.1600e+002	+1.3520e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1449	+3.1600e+002	+1.3990e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1450	+3.1600e+002	+1.4460e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1451	+3.1600e+002	+1.4930e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1452	+3.1600e+002	+1.5400e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1453	+3.1600e+002	+1.5870e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1454	+3.1600e+002	+1.6339e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1455	+3.1600e+002	+1.6809e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1456	+3.1600e+002	+1.7279e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1457	+3.1600e+002	+1.7749e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1458	+3.1600e+002	+1.8218e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1459	+3.1600e+002	+1.8688e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1460	+3.1601e+002	+1.1171e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1461	+3.1601e+002	+1.1641e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1462	+3.2245e+002	+1.2111e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1463	+3.2245e+002	+1.2581e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1464	+3.2245e+002	+1.3051e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1465	+3.2245e+002	+1.3521e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1466	+3.2245e+002	+1.3991e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1467	+3.2245e+002	+1.4460e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1468	+3.2245e+002	+1.4930e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1469	+3.2245e+002	+1.5400e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1470	+3.2245e+002	+1.5870e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1471	+3.2245e+002	+1.6340e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1472	+3.2245e+002	+1.6810e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1473	+3.2245e+002	+1.7279e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1474	+3.2245e+002	+1.7749e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1475	+3.2245e+002	+1.8219e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1476	+3.2245e+002	+1.8689e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1477	+3.2245e+002	+1.9159e+002	+0.0000e+000	+2.1350e+002	100000	+0.0000e+000
1478	+3.2246e+002	+1.1172e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1479	+3.2246e+002	+1.1641e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1480	+3.2890e+002	+1.5401e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1481	+3.2890e+002	+1.5871e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000

1482	+3.2890e+002	+1.6340e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1483	+3.2890e+002	+1.6810e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1484	+3.2890e+002	+1.7280e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1485	+3.2890e+002	+1.7750e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1486	+3.2890e+002	+1.8220e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1487	+3.2890e+002	+1.8690e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1488	+3.2890e+002	+1.9160e+002	+0.0000e+000	+2.1350e+002	100000	+0.0000e+000
1489	+3.2891e+002	+1.1172e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1490	+3.2891e+002	+1.1642e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1491	+3.2891e+002	+1.2112e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1492	+3.2891e+002	+1.2582e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1493	+3.2891e+002	+1.3051e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1494	+3.2891e+002	+1.3521e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1495	+3.2891e+002	+1.3991e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1496	+3.2891e+002	+1.4461e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1497	+3.2891e+002	+1.4931e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1498	+3.3536e+002	+1.1172e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1499	+3.3536e+002	+1.1642e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1500	+3.3536e+002	+1.2112e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1501	+3.3536e+002	+1.2582e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1502	+3.3536e+002	+1.3052e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1503	+3.3536e+002	+1.3522e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1504	+3.3536e+002	+1.3992e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1505	+3.3536e+002	+1.4462e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1506	+3.3536e+002	+1.4931e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1507	+3.3536e+002	+1.5401e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1508	+3.3536e+002	+1.5871e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1509	+3.3536e+002	+1.6341e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1510	+3.3536e+002	+1.6811e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1511	+3.3536e+002	+1.7281e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1512	+3.3536e+002	+1.7751e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1513	+3.3536e+002	+1.8221e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1514	+3.3536e+002	+1.8690e+002	+0.0000e+000	+0.0000e+000	000000	+0.0000e+000
1515	+3.3536e+002	+1.9160e+002	+0.0000e+000	+2.1350e+002	100000	+0.0000e+000

ELEMENT 1426

1	21	19	18	20	0	0	0	0	3	9	+1.0000e+000	0 0
2	23	16	15	22	0	0	0	0	3	9	+1.0000e+000	0 0
3	24	17	16	23	0	0	0	0	3	9	+1.0000e+000	0 0
4	20	18	17	24	0	0	0	0	3	9	+1.0000e+000	0 0
5	26	13	12	25	0	0	0	0	3	9	+1.0000e+000	0 0
6	27	14	13	26	0	0	0	0	3	9	+1.0000e+000	0 0
7	22	15	14	27	0	0	0	0	3	9	+1.0000e+000	0 0
8	29	10	9	28	0	0	0	0	3	9	+1.0000e+000	0 0
9	30	11	10	29	0	0	0	0	3	9	+1.0000e+000	0 0
10	25	12	11	30	0	0	0	0	3	9	+1.0000e+000	0 0
11	32	7	6	31	0	0	0	0	3	9	+1.0000e+000	0 0
12	33	8	7	32	0	0	0	0	3	9	+1.0000e+000	0 0
13	28	9	8	33	0	0	0	0	3	9	+1.0000e+000	0 0

14	35	4	3	34	0	0	0	0	3	9	+1.0000e+000	0 0
15	36	5	4	35	0	0	0	0	3	9	+1.0000e+000	0 0
16	31	6	5	36	0	0	0	0	3	9	+1.0000e+000	0 0
17	38	2	1	37	0	0	0	0	3	9	+1.0000e+000	0 0
18	34	3	2	38	0	0	0	0	3	9	+1.0000e+000	0 0
19	40	21	20	39	0	0	0	0	3	9	+1.0000e+000	0 0
20	39	20	24	42	0	0	0	0	3	9	+1.0000e+000	0 0
21	42	24	23	41	0	0	0	0	3	9	+1.0000e+000	0 0
22	41	23	22	43	0	0	0	0	3	9	+1.0000e+000	0 0
23	43	22	27	45	0	0	0	0	3	9	+1.0000e+000	0 0
24	45	27	26	44	0	0	0	0	3	9	+1.0000e+000	0 0
25	44	26	25	46	0	0	0	0	3	9	+1.0000e+000	0 0
26	46	25	30	48	0	0	0	0	3	9	+1.0000e+000	0 0
27	48	30	29	47	0	0	0	0	3	9	+1.0000e+000	0 0
28	47	29	28	49	0	0	0	0	3	9	+1.0000e+000	0 0
29	49	28	33	50	0	0	0	0	3	9	+1.0000e+000	0 0
30	52	32	31	51	0	0	0	0	3	9	+1.0000e+000	0 0
31	50	33	32	52	0	0	0	0	3	9	+1.0000e+000	0 0
32	51	31	36	53	0	0	0	0	3	9	+1.0000e+000	0 0
33	55	35	34	54	0	0	0	0	3	9	+1.0000e+000	0 0
34	53	36	35	55	0	0	0	0	3	9	+1.0000e+000	0 0
35	54	34	38	56	0	0	0	0	3	9	+1.0000e+000	0 0
36	56	38	37	57	0	0	0	0	3	9	+1.0000e+000	0 0
37	58	40	39	59	0	0	0	0	3	9	+1.0000e+000	0 0
38	59	39	42	60	0	0	0	0	3	9	+1.0000e+000	0 0
39	60	42	41	61	0	0	0	0	3	9	+1.0000e+000	0 0
40	61	41	43	62	0	0	0	0	3	9	+1.0000e+000	0 0
41	62	43	45	63	0	0	0	0	3	9	+1.0000e+000	0 0
42	63	45	44	64	0	0	0	0	3	9	+1.0000e+000	0 0
43	64	44	46	65	0	0	0	0	3	9	+1.0000e+000	0 0

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226	257	238	239	258	0	0	0	0	3	9	+1.0000e+000	
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230	261	242	243	262	0	0	0	0	3	9	+1.0000e+000	
0	0											
231	262	243	244	263	0	0	0	0	3	9	+1.0000e+000	
0	0											
232	263	244	245	264	0	0	0	0	3	9	+1.0000e+000	
0	0											
233	264	245	246	265	0	0	0	0	3	9	+1.0000e+000	
0	0											
234	265	246	247	266	0	0	0	0	3	9	+1.0000e+000	
0	0											
235	267	248	249	269	0	0	0	0	3	9	+1.0000e+000	
0	0											
236	269	249	250	268	0	0	0	0	3	9	+1.0000e+000	
0	0											
237	268	250	251	270	0	0	0	0	3	9	+1.0000e+000	
0	0											
238	270	251	252	272	0	0	0	0	3	9	+1.0000e+000	
0	0											
239	272	252	253	271	0	0	0	0	3	9	+1.0000e+000	
0	0											
240	271	253	254	273	0	0	0	0	3	9	+1.0000e+000	
0	0											
241	273	254	255	275	0	0	0	0	3	9	+1.0000e+000	
0	0											
242	275	255	256	274	0	0	0	0	3	9	+1.0000e+000	
0	0											
243	274	256	257	276	0	0	0	0	3	9	+1.0000e+000	
0	0											
244	276	257	258	278	0	0	0	0	3	9	+1.0000e+000	
0	0											
245	278	258	259	277	0	0	0	0	3	9	+1.0000e+000	
0	0											
246	277	259	260	279	0	0	0	0	3	9	+1.0000e+000	
0	0											
247	279	260	261	280	0	0	0	0	3	9	+1.0000e+000	
0	0											
248	280	261	262	282	0	0	0	0	3	9	+1.0000e+000	
0	0											
249	282	262	263	281	0	0	0	0	3	9	+1.0000e+000	
0	0											
250	281	263	264	283	0	0	0	0	3	9	+1.0000e+000	
0	0											
251	283	264	265	285	0	0	0	0	3	9	+1.0000e+000	
0	0											
252	285	265	266	284	0	0	0	0	3	9	+1.0000e+000	
0	0											
253	288	283	285	287	0	0	0	0	3	9	+1.0000e+000	

0	0											
254	287	285	284	286	0	0	0	0	3	9	+1.0000e+000	
0	0											
255	289	281	283	288	0	0	0	0	3	9	+1.0000e+000	
0	0											
256	291	280	282	290	0	0	0	0	3	9	+1.0000e+000	
0	0											
257	290	282	281	289	0	0	0	0	3	9	+1.0000e+000	
0	0											
258	293	277	279	292	0	0	0	0	3	9	+1.0000e+000	
0	0											
259	292	279	280	291	0	0	0	0	3	9	+1.0000e+000	
0	0											
260	295	276	278	294	0	0	0	0	3	9	+1.0000e+000	
0	0											
261	294	278	277	293	0	0	0	0	3	9	+1.0000e+000	
0	0											
262	296	274	276	295	0	0	0	0	3	9	+1.0000e+000	
0	0											
263	298	273	275	297	0	0	0	0	3	9	+1.0000e+000	
0	0											
264	297	275	274	296	0	0	0	0	3	9	+1.0000e+000	
0	0											
265	299	271	273	298	0	0	0	0	3	9	+1.0000e+000	
0	0											
266	301	270	272	300	0	0	0	0	3	9	+1.0000e+000	
0	0											
267	302	268	270	301	0	0	0	0	3	9	+1.0000e+000	
0	0											
268	300	272	271	299	0	0	0	0	3	9	+1.0000e+000	
0	0											
269	304	267	269	303	0	0	0	0	3	9	+1.0000e+000	
0	0											
270	303	269	268	302	0	0	0	0	3	9	+1.0000e+000	
0	0											
271	306	287	286	305	0	0	0	0	3	9	+1.0000e+000	
0	0											
272	307	288	287	306	0	0	0	0	3	9	+1.0000e+000	
0	0											
273	308	289	288	307	0	0	0	0	3	9	+1.0000e+000	
0	0											
274	309	290	289	308	0	0	0	0	3	9	+1.0000e+000	
0	0											
275	310	291	290	309	0	0	0	0	3	9	+1.0000e+000	
0	0											
276	311	292	291	310	0	0	0	0	3	9	+1.0000e+000	
0	0											
277	312	293	292	311	0	0	0	0	3	9	+1.0000e+000	
0	0											
278	313	294	293	312	0	0	0	0	3	9	+1.0000e+000	
0	0											
279	314	295	294	313	0	0	0	0	3	9	+1.0000e+000	
0	0											
280	315	296	295	314	0	0	0	0	3	9	+1.0000e+000	
0	0											
281	316	297	296	315	0	0	0	0	3	9	+1.0000e+000	
0	0											
282	317	298	297	316	0	0	0	0	3	9	+1.0000e+000	
0	0											
283	318	299	298	317	0	0	0	0	3	9	+1.0000e+000	

0	0											
284	319	300	299	318	0	0	0	0	3	9	+1.0000e+000	
0	0											
285	320	301	300	319	0	0	0	0	3	9	+1.0000e+000	
0	0											
286	321	302	301	320	0	0	0	0	3	9	+1.0000e+000	
0	0											
287	322	303	302	321	0	0	0	0	3	9	+1.0000e+000	
0	0											
288	323	304	303	322	0	0	0	0	3	9	+1.0000e+000	
0	0											
289	325	306	305	324	0	0	0	0	3	9	+1.0000e+000	
0	0											
290	326	307	306	325	0	0	0	0	3	9	+1.0000e+000	
0	0											
291	327	308	307	326	0	0	0	0	3	9	+1.0000e+000	
0	0											
292	328	309	308	327	0	0	0	0	3	9	+1.0000e+000	
0	0											
293	329	310	309	328	0	0	0	0	3	9	+1.0000e+000	
0	0											
294	330	311	310	329	0	0	0	0	3	9	+1.0000e+000	
0	0											
295	331	312	311	330	0	0	0	0	3	9	+1.0000e+000	
0	0											
296	332	313	312	331	0	0	0	0	3	9	+1.0000e+000	
0	0											
297	333	314	313	332	0	0	0	0	3	9	+1.0000e+000	
0	0											
298	334	315	314	333	0	0	0	0	3	9	+1.0000e+000	
0	0											
299	335	316	315	334	0	0	0	0	3	9	+1.0000e+000	
0	0											
300	336	317	316	335	0	0	0	0	3	9	+1.0000e+000	
0	0											
301	337	318	317	336	0	0	0	0	3	9	+1.0000e+000	
0	0											
302	338	319	318	337	0	0	0	0	3	9	+1.0000e+000	
0	0											
303	339	320	319	338	0	0	0	0	3	9	+1.0000e+000	
0	0											
304	340	321	320	339	0	0	0	0	3	9	+1.0000e+000	
0	0											
305	341	322	321	340	0	0	0	0	3	9	+1.0000e+000	
0	0											
306	342	323	322	341	0	0	0	0	3	9	+1.0000e+000	
0	0											
307	344	325	324	343	0	0	0	0	3	9	+1.0000e+000	
0	0											
308	345	326	325	344	0	0	0	0	3	9	+1.0000e+000	
0	0											
309	346	327	326	345	0	0	0	0	3	9	+1.0000e+000	
0	0											
310	347	328	327	346	0	0	0	0	3	9	+1.0000e+000	
0	0											
311	348	329	328	347	0	0	0	0	3	9	+1.0000e+000	
0	0											
312	349	330	329	348	0	0	0	0	3	9	+1.0000e+000	
0	0											
313	350	331	330	349	0	0	0	0	3	9	+1.0000e+000	

0	0											
314	351	332	331	350	0	0	0	0	3	9	+1.0000e+000	
0	0											
315	352	333	332	351	0	0	0	0	3	9	+1.0000e+000	
0	0											
316	353	334	333	352	0	0	0	0	3	9	+1.0000e+000	
0	0											
317	354	335	334	353	0	0	0	0	3	9	+1.0000e+000	
0	0											
318	355	336	335	354	0	0	0	0	3	9	+1.0000e+000	
0	0											
319	356	337	336	355	0	0	0	0	3	9	+1.0000e+000	
0	0											
320	357	338	337	356	0	0	0	0	3	9	+1.0000e+000	
0	0											
321	358	339	338	357	0	0	0	0	3	9	+1.0000e+000	
0	0											
322	359	340	339	358	0	0	0	0	3	9	+1.0000e+000	
0	0											
323	360	341	340	359	0	0	0	0	3	9	+1.0000e+000	
0	0											
324	361	342	341	360	0	0	0	0	3	9	+1.0000e+000	
0	0											
325	363	344	343	362	0	0	0	0	3	9	+1.0000e+000	
0	0											
326	364	345	344	363	0	0	0	0	3	9	+1.0000e+000	
0	0											
327	365	346	345	364	0	0	0	0	3	9	+1.0000e+000	
0	0											
328	366	347	346	365	0	0	0	0	3	9	+1.0000e+000	
0	0											
329	367	348	347	366	0	0	0	0	3	9	+1.0000e+000	
0	0											
330	368	349	348	367	0	0	0	0	3	9	+1.0000e+000	
0	0											
331	369	350	349	368	0	0	0	0	3	9	+1.0000e+000	
0	0											
332	370	351	350	369	0	0	0	0	3	9	+1.0000e+000	
0	0											
333	371	352	351	370	0	0	0	0	3	9	+1.0000e+000	
0	0											
334	372	353	352	371	0	0	0	0	3	9	+1.0000e+000	
0	0											
335	373	354	353	372	0	0	0	0	3	9	+1.0000e+000	
0	0											
336	374	355	354	373	0	0	0	0	3	9	+1.0000e+000	
0	0											
337	375	356	355	374	0	0	0	0	3	9	+1.0000e+000	
0	0											
338	376	357	356	375	0	0	0	0	3	9	+1.0000e+000	
0	0											
339	377	358	357	376	0	0	0	0	3	9	+1.0000e+000	
0	0											
340	378	359	358	377	0	0	0	0	3	9	+1.0000e+000	
0	0											
341	379	360	359	378	0	0	0	0	3	9	+1.0000e+000	
0	0											
342	380	361	360	379	0	0	0	0	3	9	+1.0000e+000	
0	0											
343	382	363	362	381	0	0	0	0	3	9	+1.0000e+000	

0	0											
344	383	364	363	382	0	0	0	0	3	9	+1.0000e+000	
0	0											
345	384	365	364	383	0	0	0	0	3	9	+1.0000e+000	
0	0											
346	385	366	365	384	0	0	0	0	3	9	+1.0000e+000	
0	0											
347	386	367	366	385	0	0	0	0	3	9	+1.0000e+000	
0	0											
348	387	368	367	386	0	0	0	0	3	9	+1.0000e+000	
0	0											
349	388	369	368	387	0	0	0	0	3	9	+1.0000e+000	
0	0											
350	389	370	369	388	0	0	0	0	3	9	+1.0000e+000	
0	0											
351	390	371	370	389	0	0	0	0	3	9	+1.0000e+000	
0	0											
352	391	372	371	390	0	0	0	0	3	9	+1.0000e+000	
0	0											
353	392	373	372	391	0	0	0	0	3	9	+1.0000e+000	
0	0											
354	393	374	373	392	0	0	0	0	3	9	+1.0000e+000	
0	0											
355	394	375	374	393	0	0	0	0	3	9	+1.0000e+000	
0	0											
356	395	376	375	394	0	0	0	0	3	9	+1.0000e+000	
0	0											
357	396	377	376	395	0	0	0	0	3	9	+1.0000e+000	
0	0											
358	397	378	377	396	0	0	0	0	3	9	+1.0000e+000	
0	0											
359	398	379	378	397	0	0	0	0	3	9	+1.0000e+000	
0	0											
360	399	380	379	398	0	0	0	0	3	9	+1.0000e+000	
0	0											
361	382	381	402	403	0	0	0	0	3	9	+1.0000e+000	
0	0											
362	383	382	403	404	0	0	0	0	3	9	+1.0000e+000	
0	0											
363	384	383	404	405	0	0	0	0	3	9	+1.0000e+000	
0	0											
364	385	384	405	406	0	0	0	0	3	9	+1.0000e+000	
0	0											
365	386	385	406	407	0	0	0	0	3	9	+1.0000e+000	
0	0											
366	387	386	407	408	0	0	0	0	3	9	+1.0000e+000	
0	0											
367	388	387	408	409	0	0	0	0	3	9	+1.0000e+000	
0	0											
368	389	388	409	410	0	0	0	0	3	9	+1.0000e+000	
0	0											
369	390	389	410	411	0	0	0	0	3	9	+1.0000e+000	
0	0											
370	391	390	411	412	0	0	0	0	3	9	+1.0000e+000	
0	0											
371	392	391	412	413	0	0	0	0	3	9	+1.0000e+000	
0	0											
372	393	392	413	414	0	0	0	0	3	9	+1.0000e+000	
0	0											
373	394	393	414	415	0	0	0	0	3	9	+1.0000e+000	

0	0											
374	395	394	415	416	0	0	0	0	3	9	+1.0000e+000	
0	0											
375	396	395	416	417	0	0	0	0	3	9	+1.0000e+000	
0	0											
376	397	396	417	418	0	0	0	0	3	9	+1.0000e+000	
0	0											
377	398	397	418	419	0	0	0	0	3	9	+1.0000e+000	
0	0											
378	399	398	419	420	0	0	0	0	3	9	+1.0000e+000	
0	0											
379	400	399	420	422	0	0	0	0	1	9	+1.0000e+000	
0	0											
380	401	400	422	424	0	0	0	0	1	9	+1.0000e+000	
0	0											
381	403	402	425	426	0	0	0	0	3	9	+1.0000e+000	
0	0											
382	404	403	426	427	0	0	0	0	3	9	+1.0000e+000	
0	0											
383	405	404	427	428	0	0	0	0	3	9	+1.0000e+000	
0	0											
384	406	405	428	429	0	0	0	0	3	9	+1.0000e+000	
0	0											
385	407	406	429	430	0	0	0	0	3	9	+1.0000e+000	
0	0											
386	408	407	430	431	0	0	0	0	3	9	+1.0000e+000	
0	0											
387	409	408	431	432	0	0	0	0	3	9	+1.0000e+000	
0	0											
388	410	409	432	433	0	0	0	0	3	9	+1.0000e+000	
0	0											
389	411	410	433	434	0	0	0	0	3	9	+1.0000e+000	
0	0											
390	421	401	424	444	0	0	0	0	1	9	+1.0000e+000	
0	0											
391	412	411	434	435	0	0	0	0	3	9	+1.0000e+000	
0	0											
392	413	412	435	436	0	0	0	0	3	9	+1.0000e+000	
0	0											
393	414	413	436	437	0	0	0	0	3	9	+1.0000e+000	
0	0											
394	415	414	437	438	0	0	0	0	3	9	+1.0000e+000	
0	0											
395	416	415	438	439	0	0	0	0	3	9	+1.0000e+000	
0	0											
396	417	416	439	440	0	0	0	0	3	9	+1.0000e+000	
0	0											
397	418	417	440	441	0	0	0	0	3	9	+1.0000e+000	
0	0											
398	419	418	441	442	0	0	0	0	3	9	+1.0000e+000	
0	0											
399	420	419	442	443	0	0	0	0	3	9	+1.0000e+000	
0	0											
400	422	420	443	446	0	0	0	0	1	9	+1.0000e+000	
0	0											
401	423	421	444	447	0	0	0	0	1	9	+1.0000e+000	
0	0											
402	424	422	446	449	0	0	0	0	1	9	+1.0000e+000	
0	0											
403	445	423	447	450	0	0	0	0	1	9	+1.0000e+000	

0	0											
404	444	424	449	451	0	0	0	0	1	9	+1.0000e+000	
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405	426	425	452	453	0	0	0	0	3	9	+1.0000e+000	
0	0											
406	427	426	453	454	0	0	0	0	3	9	+1.0000e+000	
0	0											
407	428	427	454	455	0	0	0	0	3	9	+1.0000e+000	
0	0											
408	429	428	455	456	0	0	0	0	3	9	+1.0000e+000	
0	0											
409	430	429	456	457	0	0	0	0	3	9	+1.0000e+000	
0	0											
410	431	430	457	458	0	0	0	0	3	9	+1.0000e+000	
0	0											
411	432	431	458	459	0	0	0	0	3	9	+1.0000e+000	
0	0											
412	433	432	459	460	0	0	0	0	3	9	+1.0000e+000	
0	0											
413	434	433	460	461	0	0	0	0	3	9	+1.0000e+000	
0	0											
414	435	434	461	462	0	0	0	0	3	9	+1.0000e+000	
0	0											
415	436	435	462	463	0	0	0	0	3	9	+1.0000e+000	
0	0											
416	437	436	463	464	0	0	0	0	3	9	+1.0000e+000	
0	0											
417	438	437	464	465	0	0	0	0	3	9	+1.0000e+000	
0	0											
418	439	438	465	466	0	0	0	0	3	9	+1.0000e+000	
0	0											
419	440	439	466	467	0	0	0	0	3	9	+1.0000e+000	
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420	441	440	467	468	0	0	0	0	3	9	+1.0000e+000	
0	0											
421	442	441	468	469	0	0	0	0	3	9	+1.0000e+000	
0	0											
422	443	442	469	470	0	0	0	0	3	9	+1.0000e+000	
0	0											
423	446	443	470	474	0	0	0	0	1	9	+1.0000e+000	
0	0											
424	447	444	451	473	0	0	0	0	1	9	+1.0000e+000	
0	0											
425	448	445	450	472	0	0	0	0	1	9	+1.0000e+000	
0	0											
426	449	446	474	476	0	0	0	0	1	9	+1.0000e+000	
0	0											
427	450	447	473	477	0	0	0	0	1	9	+1.0000e+000	
0	0											
428	471	448	472	478	0	0	0	0	1	9	+1.0000e+000	
0	0											
429	451	449	476	479	0	0	0	0	1	9	+1.0000e+000	
0	0											
430	472	450	477	480	0	0	0	0	1	9	+1.0000e+000	
0	0											
431	473	451	479	489	0	0	0	0	1	9	+1.0000e+000	
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432	453	452	483	484	0	0	0	0	3	9	+1.0000e+000	
0	0											
433	454	453	484	485	0	0	0	0	3	9	+1.0000e+000	

0	0											
434	455	454	485	486	0	0	0	0	3	9	+1.0000e+000	
0	0											
435	456	455	486	487	0	0	0	0	3	9	+1.0000e+000	
0	0											
436	457	456	487	488	0	0	0	0	3	9	+1.0000e+000	
0	0											
437	458	457	488	490	0	0	0	0	3	9	+1.0000e+000	
0	0											
438	459	458	490	491	0	0	0	0	3	9	+1.0000e+000	
0	0											
439	460	459	491	492	0	0	0	0	3	9	+1.0000e+000	
0	0											
440	461	460	492	493	0	0	0	0	3	9	+1.0000e+000	
0	0											
441	462	461	493	494	0	0	0	0	3	9	+1.0000e+000	
0	0											
442	463	462	494	495	0	0	0	0	3	9	+1.0000e+000	
0	0											
443	464	463	495	496	0	0	0	0	3	9	+1.0000e+000	
0	0											
444	465	464	496	497	0	0	0	0	3	9	+1.0000e+000	
0	0											
445	466	465	497	498	0	0	0	0	3	9	+1.0000e+000	
0	0											
446	467	466	498	499	0	0	0	0	3	9	+1.0000e+000	
0	0											
447	468	467	499	500	0	0	0	0	3	9	+1.0000e+000	
0	0											
448	469	468	500	501	0	0	0	0	3	9	+1.0000e+000	
0	0											
449	470	469	501	502	0	0	0	0	3	9	+1.0000e+000	
0	0											
450	475	471	478	482	0	0	0	0	1	9	+1.0000e+000	
0	0											
451	474	470	502	504	0	0	0	0	1	9	+1.0000e+000	
0	0											
452	478	472	480	503	0	0	0	0	1	9	+1.0000e+000	
0	0											
453	477	473	489	505	0	0	0	0	1	9	+1.0000e+000	
0	0											
454	476	474	504	508	0	0	0	0	1	9	+1.0000e+000	
0	0											
455	481	475	482	507	0	0	0	0	1	9	+1.0000e+000	
0	0											
456	480	477	505	510	0	0	0	0	1	9	+1.0000e+000	
0	0											
457	479	476	508	511	0	0	0	0	1	9	+1.0000e+000	
0	0											
458	482	478	503	509	0	0	0	0	1	9	+1.0000e+000	
0	0											
459	489	479	511	514	0	0	0	0	1	9	+1.0000e+000	
0	0											
460	503	480	510	513	0	0	0	0	1	9	+1.0000e+000	
0	0											
461	506	481	507	512	0	0	0	0	1	9	+1.0000e+000	
0	0											
462	507	482	509	516	0	0	0	0	1	9	+1.0000e+000	
0	0											
463	505	489	514	517	0	0	0	0	1	9	+1.0000e+000	

0	0											
464	484	483	519	520	0	0	0	0	3	9	+1.0000e+000	
0	0											
465	485	484	520	521	0	0	0	0	3	9	+1.0000e+000	
0	0											
466	486	485	521	522	0	0	0	0	3	9	+1.0000e+000	
0	0											
467	487	486	522	523	0	0	0	0	3	9	+1.0000e+000	
0	0											
468	488	487	523	524	0	0	0	0	3	9	+1.0000e+000	
0	0											
469	490	488	524	525	0	0	0	0	3	9	+1.0000e+000	
0	0											
470	491	490	525	526	0	0	0	0	3	9	+1.0000e+000	
0	0											
471	492	491	526	527	0	0	0	0	3	9	+1.0000e+000	
0	0											
472	493	492	527	528	0	0	0	0	3	9	+1.0000e+000	
0	0											
473	494	493	528	529	0	0	0	0	3	9	+1.0000e+000	
0	0											
474	495	494	529	530	0	0	0	0	3	9	+1.0000e+000	
0	0											
475	496	495	530	531	0	0	0	0	3	9	+1.0000e+000	
0	0											
476	497	496	531	532	0	0	0	0	3	9	+1.0000e+000	
0	0											
477	498	497	532	533	0	0	0	0	3	9	+1.0000e+000	
0	0											
478	499	498	533	534	0	0	0	0	3	9	+1.0000e+000	
0	0											
479	500	499	534	535	0	0	0	0	3	9	+1.0000e+000	
0	0											
480	501	500	535	536	0	0	0	0	3	9	+1.0000e+000	
0	0											
481	502	501	536	537	0	0	0	0	3	9	+1.0000e+000	
0	0											
482	504	502	537	541	0	0	0	0	1	9	+1.0000e+000	
0	0											
483	509	503	513	518	0	0	0	0	1	9	+1.0000e+000	
0	0											
484	510	505	517	548	0	0	0	0	1	9	+1.0000e+000	
0	0											
485	515	506	512	538	0	0	0	0	1	9	+1.0000e+000	
0	0											
486	508	504	541	544	0	0	0	0	1	9	+1.0000e+000	
0	0											
487	512	507	516	539	0	0	0	0	1	9	+1.0000e+000	
0	0											
488	516	509	518	543	0	0	0	0	1	9	+1.0000e+000	
0	0											
489	511	508	544	546	0	0	0	0	1	9	+1.0000e+000	
0	0											
490	513	510	540	545	0	0	0	0	1	9	+1.0000e+000	
0	0											
491	514	511	546	551	0	0	0	0	1	9	+1.0000e+000	
0	0											
492	538	512	539	547	0	0	0	0	1	9	+1.0000e+000	
0	0											
493	518	513	545	550	0	0	0	0	1	9	+1.0000e+000	

0	0											
494	542	515	538	548	0	0	0	0	1	9	+1.0000e+000	
0	0											
495	539	516	543	549	0	0	0	0	1	9	+1.0000e+000	
0	0											
496	517	514	551	552	0	0	0	0	1	9	+1.0000e+000	
0	0											
497	543	518	550	554	0	0	0	0	1	9	+1.0000e+000	
0	0											
498	540	517	552	557	0	0	0	0	1	9	+1.0000e+000	
0	0											
499	548	538	547	555	0	0	0	0	1	9	+1.0000e+000	
0	0											
500	547	539	549	556	0	0	0	0	1	9	+1.0000e+000	
0	0											
501	528	519	562	563	0	0	0	0	3	9	+1.0000e+000	
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502	521	520	563	564	0	0	0	0	3	9	+1.0000e+000	
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503	522	521	564	566	0	0	0	0	3	9	+1.0000e+000	
0	0											
504	545	540	557	560	0	0	0	0	1	9	+1.0000e+000	
0	0											
505	523	522	566	567	0	0	0	0	3	9	+1.0000e+000	
0	0											
506	524	523	567	568	0	0	0	0	3	9	+1.0000e+000	
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507	525	524	568	569	0	0	0	0	3	9	+1.0000e+000	
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508	526	525	569	570	0	0	0	0	3	9	+1.0000e+000	
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509	527	526	570	571	0	0	0	0	3	9	+1.0000e+000	
0	0											
510	528	527	571	572	0	0	0	0	3	9	+1.0000e+000	
0	0											
511	529	528	572	573	0	0	0	0	3	9	+1.0000e+000	
0	0											
512	530	529	573	574	0	0	0	0	3	9	+1.0000e+000	
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513	531	530	574	575	0	0	0	0	3	9	+1.0000e+000	
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514	532	531	575	576	0	0	0	0	3	9	+1.0000e+000	
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515	533	532	576	577	0	0	0	0	3	9	+1.0000e+000	
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516	534	533	577	578	0	0	0	0	3	9	+1.0000e+000	
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517	535	534	578	579	0	0	0	0	3	9	+1.0000e+000	
0	0											
518	536	535	579	580	0	0	0	0	3	9	+1.0000e+000	
0	0											
519	537	536	580	581	0	0	0	0	3	9	+1.0000e+000	
0	0											
520	553	542	548	558	0	0	0	0	1	9	+1.0000e+000	
0	0											
521	541	537	581	584	0	0	0	0	1	9	+1.0000e+000	
0	0											
522	549	543	554	559	0	0	0	0	1	9	+1.0000e+000	
0	0											
523	544	541	584	587	0	0	0	0	1	9	+1.0000e+000	

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524	550	545	560	565	0	0	0	0	1	9	+1.0000e+000	
0	0											
525	555	547	556	561	0	0	0	0	1	9	+1.0000e+000	
0	0											
526	546	544	587	588	0	0	0	0	1	9	+1.0000e+000	
0	0											
527	558	548	555	582	0	0	0	0	1	9	+1.0000e+000	
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528	556	549	559	583	0	0	0	0	1	9	+1.0000e+000	
0	0											
529	554	550	565	586	0	0	0	0	1	9	+1.0000e+000	
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530	551	546	588	593	0	0	0	0	1	9	+1.0000e+000	
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532	585	553	558	589	0	0	0	0	1	9	+1.0000e+000	
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533	559	554	586	592	0	0	0	0	1	9	+1.0000e+000	
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0	0											
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539	583	559	592	596	0	0	0	0	1	9	+1.0000e+000	
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541	590	561	591	598	0	0	0	0	1	9	+1.0000e+000	
0	0											
542	595	582	590	600	0	0	0	0	1	9	+1.0000e+000	
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0	0											
544	586	565	602	603	0	0	0	0	1	9	+1.0000e+000	
0	0											
545	592	586	603	606	0	0	0	0	1	9	+1.0000e+000	
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546	600	590	598	604	0	0	0	0	1	9	+1.0000e+000	
0	0											
547	598	591	601	605	0	0	0	0	1	9	+1.0000e+000	
0	0											
548	596	592	606	607	0	0	0	0	1	9	+1.0000e+000	
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552	567	566	615	616	0	0	0	0	3	9	+1.0000e+000	
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553	568	567	616	617	0	0	0	0	3	9	+1.0000e+000	

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554	569	568	617	618	0	0	0	0	3	9	+1.0000e+000	
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555	570	569	618	619	0	0	0	0	3	9	+1.0000e+000	
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556	571	570	619	620	0	0	0	0	3	9	+1.0000e+000	
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557	572	571	620	621	0	0	0	0	3	9	+1.0000e+000	
0	0											
558	573	572	621	622	0	0	0	0	3	9	+1.0000e+000	
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559	574	573	622	623	0	0	0	0	3	9	+1.0000e+000	
0	0											
560	575	574	623	624	0	0	0	0	3	9	+1.0000e+000	
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563	578	577	626	627	0	0	0	0	3	9	+1.0000e+000	
0	0											
564	579	578	627	628	0	0	0	0	3	9	+1.0000e+000	
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565	580	579	628	629	0	0	0	0	3	9	+1.0000e+000	
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566	581	580	629	630	0	0	0	0	3	9	+1.0000e+000	
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567	584	581	630	631	0	0	0	0	1	9	+1.0000e+000	
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569	601	596	607	609	0	0	0	0	1	9	+1.0000e+000	
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570	588	587	632	633	0	0	0	0	1	9	+1.0000e+000	
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571	604	598	605	608	0	0	0	0	1	9	+1.0000e+000	
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574	605	601	609	610	0	0	0	0	1	9	+1.0000e+000	
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575	597	594	635	636	0	0	0	0	1	9	+1.0000e+000	
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576	599	597	636	637	0	0	0	0	1	9	+1.0000e+000	
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577	602	599	637	638	0	0	0	0	1	9	+1.0000e+000	
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578	608	605	610	611	0	0	0	0	1	9	+1.0000e+000	
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579	603	602	638	639	0	0	0	0	1	9	+1.0000e+000	
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581	607	606	640	641	0	0	0	0	1	9	+1.0000e+000	
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582	609	607	641	642	0	0	0	0	1	9	+1.0000e+000	
0	0											
583	610	609	642	643	0	0	0	0	1	9	+1.0000e+000	

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584	611	610	643	644	0	0	0	0	1	9	+1.0000e+000	
0	0											
585	644	643	646	645	0	0	0	0	1	9	+1.0000e+000	
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591	645	646	651	648	0	0	0	0	1	9	+1.0000e+000	
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592	638	637	657	654	0	0	0	0	1	9	+1.0000e+000	
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595	646	647	655	651	0	0	0	0	1	9	+1.0000e+000	
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596	635	634	663	662	0	0	0	0	1	9	+1.0000e+000	
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598	648	651	658	652	0	0	0	0	1	9	+1.0000e+000	
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599	633	632	669	668	0	0	0	0	1	9	+1.0000e+000	
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600	647	649	660	655	0	0	0	0	1	9	+1.0000e+000	
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601	632	631	672	669	0	0	0	0	1	9	+1.0000e+000	
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602	613	612	675	676	0	0	0	0	3	9	+1.0000e+000	
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603	614	613	676	677	0	0	0	0	3	9	+1.0000e+000	
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605	616	615	678	679	0	0	0	0	3	9	+1.0000e+000	
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606	617	616	679	680	0	0	0	0	3	9	+1.0000e+000	
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607	618	617	680	681	0	0	0	0	3	9	+1.0000e+000	
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608	619	618	681	682	0	0	0	0	3	9	+1.0000e+000	
0	0											
609	620	619	682	683	0	0	0	0	3	9	+1.0000e+000	
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614	625	624	687	688	0	0	0	0	3	9	+1.0000e+000	
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615	626	625	688	689	0	0	0	0	3	9	+1.0000e+000	
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617	628	627	690	691	0	0	0	0	3	9	+1.0000e+000	
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618	629	628	691	692	0	0	0	0	3	9	+1.0000e+000	
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620	631	630	693	672	0	0	0	0	1	9	+1.0000e+000	
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621	649	650	664	660	0	0	0	0	1	9	+1.0000e+000	
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622	651	655	665	658	0	0	0	0	1	9	+1.0000e+000	
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623	652	658	666	656	0	0	0	0	1	9	+1.0000e+000	
0	0											
624	650	653	670	664	0	0	0	0	1	9	+1.0000e+000	
0	0											
625	653	654	694	670	0	0	0	0	1	9	+1.0000e+000	
0	0											
626	655	660	673	665	0	0	0	0	1	9	+1.0000e+000	
0	0											
627	656	666	674	661	0	0	0	0	1	9	+1.0000e+000	
0	0											
628	658	665	695	666	0	0	0	0	1	9	+1.0000e+000	
0	0											
629	654	657	696	694	0	0	0	0	1	9	+1.0000e+000	
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630	660	664	697	673	0	0	0	0	1	9	+1.0000e+000	
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631	657	659	699	696	0	0	0	0	1	9	+1.0000e+000	
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632	661	674	698	667	0	0	0	0	1	9	+1.0000e+000	
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633	659	662	705	699	0	0	0	0	1	9	+1.0000e+000	
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634	665	673	700	695	0	0	0	0	1	9	+1.0000e+000	
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635	666	695	701	674	0	0	0	0	1	9	+1.0000e+000	
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636	664	670	702	697	0	0	0	0	1	9	+1.0000e+000	
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637	667	698	704	671	0	0	0	0	1	9	+1.0000e+000	
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638	662	663	706	705	0	0	0	0	1	9	+1.0000e+00	
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640	670	694	707	702	0	0	0	0	1	9	+1.0000e+000	
0	0											
641	673	697	708	700	0	0	0	0	1	9	+1.0000e+000	
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642	674	701	709	698	0	0	0	0	1	9	+1.0000e+000	
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643	668	669	714	711	0	0	0	0	1	9	+1.0000e+000	

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644	695	700	710	701	0	0	0	0	1	9	+1.0000e+000	
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645	671	704	715	703	0	0	0	0	2	9	+1.0000e+000	
0	0											
646	694	696	712	707	0	0	0	0	1	9	+1.0000e+000	
0	0											
647	669	672	718	714	0	0	0	0	1	9	+1.0000e+000	
0	0											
648	697	702	716	708	0	0	0	0	1	9	+1.0000e+000	
0	0											
649	672	693	740	718	0	0	0	0	1	9	+1.0000e+000	
0												
650	698	709	717	704	0	0	0	0	1	9	+1.0000e+000	
0	0											
651	676	675	722	723	0	0	0	0	3	9	+1.0000e+000	
0	0											
652	677	676	723	724	0	0	0	0	3	9	+1.0000e+000	
0	0											
653	678	677	724	725	0	0	0	0	3	9	+1.0000e+000	
0	0											
654	679	678	725	726	0	0	0	0	3	9	+1.0000e+000	
0	0											
655	680	679	726	727	0	0	0	0	3	9	+1.0000e+000	
0	0											
656	681	680	727	728	0	0	0	0	3	9	+1.0000e+000	
0	0											
657	682	681	728	729	0	0	0	0	3	9	+1.0000e+000	
0	0											
658	683	682	729	730	0	0	0	0	3	9	+1.0000e+000	
0	0											
659	684	683	730	731	0	0	0	0	3	9	+1.0000e+000	
0	0											
660	685	684	731	732	0	0	0	0	3	9	+1.0000e+000	
0	0											
661	686	685	732	733	0	0	0	0	3	9	+1.0000e+000	
0	0											
662	687	686	733	734	0	0	0	0	3	9	+1.0000e+000	
0	0											
663	688	687	734	735	0	0	0	0	3	9	+1.0000e+000	
0	0											
664	689	688	735	736	0	0	0	0	3	9	+1.0000e+000	
0	0											
665	690	689	736	737	0	0	0	0	3	9	+1.0000e+000	
0	0											
666	691	690	737	738	0	0	0	0	3	9	+1.0000e+000	
0	0											
667	692	691	738	739	0	0	0	0	3	9	+1.0000e+000	
0	0											
668	693	692	739	740	0	0	0	0	3	9	+1.0000e+000	
0	0											
669	696	699	719	712	0	0	0	0	1	9	+1.0000e+000	
0	0											
670	700	708	720	710	0	0	0	0	1	9	+1.0000e+000	
0	0											
671	701	710	721	709	0	0	0	0	1	9	+1.0000e+000	
0	0											
672	699	705	742	719	0	0	0	0	1	9	+1.0000e+000	
0	0											
673	702	707	741	716	0	0	0	0	1	9	+1.0000e+000	

0	0											
674	703	715	744	713	0	0	0	0	2	9	+1.0000e+000	
0	0											
675	704	717	745	715	0	0	0	0	2	9	+1.0000e+000	
0	0											
676	705	706	748	742	0	0	0	0	1	9	+1.0000e+000	
0	0											
677	708	716	746	720	0	0	0	0	1	9	+1.0000e+000	
0	0											
678	709	721	747	717	0	0	0	0	1	9	+1.0000e+000	
0	0											
679	707	712	749	741	0	0	0	0	1	9	+1.0000e+000	
0	0											
680	710	720	750	721	0	0	0	0	1	9	+1.0000e+000	
0	0											
681	706	711	751	748	0	0	0	0	1	9	+1.0000e+000	
0	0											
682	712	719	752	749	0	0	0	0	1	9	+1.0000e+000	
0	0											
683	711	714	757	751	0	0	0	0	1	9	+1.0000e+000	
0	0											
684	716	741	753	746	0	0	0	0	1	9	+1.0000e+000	
0	0											
685	713	744	755	743	0	0	0	0	2	9	+1.0000e+000	
0	0											
686	715	745	756	744	0	0	0	0	2	9	+1.0000e+000	
0	0											
687	717	747	758	745	0	0	0	0	2	9	+1.0000e+000	
0	0											
688	720	746	759	750	0	0	0	0	1	9	+1.0000e+000	
0	0											
689	714	718	762	757	0	0	0	0	1	9	+1.0000e+000	
0	0											
690	721	750	760	747	0	0	0	0	1	9	+1.0000e+000	
0	0											
691	719	742	761	752	0	0	0	0	1	9	+1.0000e+000	
0	0											
692	741	749	763	753	0	0	0	0	1	9	+1.0000e+000	
0	0											
693	718	740	784	762	0	0	0	0	1	9	+1.0000e+000	
0	0											
694	723	722	766	767	0	0	0	0	3	9	+1.0000e+000	
0	0											
695	724	723	767	768	0	0	0	0	3	9	+1.0000e+000	
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696	725	724	768	769	0	0	0	0	3	9	+1.0000e+000	
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697	726	725	769	770	0	0	0	0	3	9	+1.0000e+000	
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698	727	726	770	771	0	0	0	0	3	9	+1.0000e+000	
0	0											
699	728	727	771	772	0	0	0	0	3	9	+1.0000e+000	
0	0											
700	729	728	772	773	0	0	0	0	3	9	+1.0000e+000	
0	0											
701	730	729	773	774	0	0	0	0	3	9	+1.0000e+000	
0	0											
702	731	730	774	775	0	0	0	0	3	9	+1.0000e+000	
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703	732	731	775	776	0	0	0	0	3	9	+1.0000e+000	

0	0											
704	733	732	776	777	0	0	0	0	3	9	+1.0000e+000	
0	0											
705	734	733	777	778	0	0	0	0	3	9	+1.0000e+000	
0	0											
706	735	734	778	779	0	0	0	0	3	9	+1.0000e+000	
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707	736	735	779	780	0	0	0	0	3	9	+1.0000e+000	
0	0											
708	737	736	780	781	0	0	0	0	3	9	+1.0000e+000	
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709	738	737	781	782	0	0	0	0	3	9	+1.0000e+000	
0	0											
710	739	738	782	783	0	0	0	0	3	9	+1.0000e+000	
0	0											
711	740	739	783	784	0	0	0	0	3	9	+1.0000e+000	
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712	742	748	785	761	0	0	0	0	1	9	+1.0000e+000	
0	0											
713	743	755	765	754	0	0	0	0	2	9	+1.0000e+000	
0	0											
714	744	756	786	755	0	0	0	0	2	9	+1.0000e+000	
0	0											
715	746	753	787	759	0	0	0	0	1	9	+1.0000e+000	
0	0											
716	745	758	788	756	0	0	0	0	2	9	+1.0000e+000	
0	0											
717	747	760	789	758	0	0	0	0	2	9	+1.0000e+000	
0	0											
718	750	759	790	760	0	0	0	0	1	9	+1.0000e+000	
0	0											
719	749	752	791	763	0	0	0	0	1	9	+1.0000e+000	
0	0											
720	748	751	792	785	0	0	0	0	1	9	+1.0000e+000	
0	0											
721	754	765	794	764	0	0	0	0	2	9	+1.0000e+000	
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722	753	763	795	787	0	0	0	0	1	9	+1.0000e+000	
0	0											
723	751	757	800	792	0	0	0	0	1	9	+1.0000e+000	
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724	752	761	797	791	0	0	0	0	1	9	+1.0000e+000	
0	0											
725	755	786	796	765	0	0	0	0	2	9	+1.0000e+000	
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726	756	788	798	786	0	0	0	0	2	9	+1.0000e+000	
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727	758	789	799	788	0	0	0	0	2	9	+1.0000e+000	
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728	760	790	801	789	0	0	0	0	2	9	+1.0000e+000	
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729	759	787	802	790	0	0	0	0	1	9	+1.0000e+000	
0	0											
730	757	762	804	800	0	0	0	0	1	9	+1.0000e+000	
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731	761	785	805	797	0	0	0	0	1	9	+1.0000e+000	
0	0											
732	763	791	806	795	0	0	0	0	1	9	+1.0000e+000	
0	0											
733	764	794	807	793	0	0	0	0	2	9	+1.0000e+000	

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734	765	796	808	794	0	0	0	0	2	9	+1.0000e+000	
0	0											
735	762	784	832	804	0	0	0	0	1	9	+1.0000e+000	
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736	786	798	809	796	0	0	0	0	2	9	+1.0000e+000	
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737	788	799	810	798	0	0	0	0	2	9	+1.0000e+000	
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738	767	766	814	815	0	0	0	0	3	9	+1.0000e+000	
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739	768	767	815	816	0	0	0	0	3	9	+1.0000e+000	
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740	769	768	816	817	0	0	0	0	3	9	+1.0000e+000	
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741	770	769	817	818	0	0	0	0	3	9	+1.0000e+000	
0	0											
742	787	795	813	802	0	0	0	0	1	9	+1.0000e+000	
0	0											
743	771	770	818	819	0	0	0	0	3	9	+1.0000e+000	
0	0											
744	772	771	819	820	0	0	0	0	3	9	+1.0000e+000	
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745	773	772	820	821	0	0	0	0	3	9	+1.0000e+000	
0	0											
746	774	773	821	822	0	0	0	0	3	9	+1.0000e+000	
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747	775	774	822	823	0	0	0	0	3	9	+1.0000e+000	
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748	789	801	811	799	0	0	0	0	2	9	+1.0000e+000	
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749	776	775	823	824	0	0	0	0	3	9	+1.0000e+000	
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750	777	776	824	825	0	0	0	0	3	9	+1.0000e+000	
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751	778	777	825	826	0	0	0	0	3	9	+1.0000e+000	
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752	779	778	826	827	0	0	0	0	3	9	+1.0000e+000	
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753	780	779	827	828	0	0	0	0	3	9	+1.0000e+000	
0	0											
754	781	780	828	829	0	0	0	0	3	9	+1.0000e+000	
0	0											
755	782	781	829	830	0	0	0	0	3	9	+1.0000e+000	
0	0											
756	783	782	830	831	0	0	0	0	3	9	+1.0000e+000	
0	0											
757	784	783	831	832	0	0	0	0	3	9	+1.0000e+000	
0	0											
758	790	802	812	801	0	0	0	0	2	9	+1.0000e+000	
0	0											
759	785	792	833	805	0	0	0	0	1	9	+1.0000e+000	
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760	791	797	834	806	0	0	0	0	1	9	+1.0000e+000	
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761	793	807	835	803	0	0	0	0	2	9	+1.0000e+000	
0	0											
762	794	808	836	807	0	0	0	0	2	9	+1.0000e+000	
0	0											
763	792	800	841	833	0	0	0	0	1	9	+1.0000e+000	

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764	796	809	837	808	0	0	0	0	2	9	+1.0000e+000	
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765	798	810	838	809	0	0	0	0	2	9	+1.0000e+000	
0	0											
766	795	806	843	813	0	0	0	0	1	9	+1.0000e+000	
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767	799	811	839	810	0	0	0	0	2	9	+1.0000e+000	
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768	801	812	840	811	0	0	0	0	2	9	+1.0000e+000	
0	0											
769	802	813	842	812	0	0	0	0	2	9	+1.0000e+000	
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770	797	805	844	834	0	0	0	0	1	9	+1.0000e+000	
0	0											
771	800	804	847	841	0	0	0	0	1	9	+1.0000e+000	
0	0											
772	807	836	845	835	0	0	0	0	2	9	+1.0000e+000	
0	0											
773	808	837	846	836	0	0	0	0	2	9	+1.0000e+000	
0	0											
774	809	838	848	837	0	0	0	0	2	9	+1.0000e+000	
0	0											
775	806	834	853	843	0	0	0	0	1	9	+1.0000e+000	
0	0											
776	810	839	849	838	0	0	0	0	2	9	+1.0000e+000	
0	0											
777	805	833	854	844	0	0	0	0	1	9	+1.0000e+000	
0	0											
778	811	840	850	839	0	0	0	0	2	9	+1.0000e+000	
0	0											
779	812	842	851	840	0	0	0	0	2	9	+1.0000e+000	
0	0											
780	804	832	873	847	0	0	0	0	1	9	+1.0000e+000	
0	0											
781	813	843	852	842	0	0	0	0	2	9	+1.0000e+000	
0	0											
782	815	814	855	856	0	0	0	0	3	9	+1.0000e+000	
0	0											
783	816	815	856	857	0	0	0	0	3	9	+1.0000e+000	
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784	817	816	857	858	0	0	0	0	3	9	+1.0000e+000	
0	0											
785	818	817	858	859	0	0	0	0	3	9	+1.0000e+000	
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786	819	818	859	860	0	0	0	0	3	9	+1.0000e+000	
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787	820	819	860	861	0	0	0	0	3	9	+1.0000e+000	
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788	821	820	861	862	0	0	0	0	3	9	+1.0000e+000	
0	0											
789	822	821	862	863	0	0	0	0	3	9	+1.0000e+000	
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790	823	822	863	864	0	0	0	0	3	9	+1.0000e+000	
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791	824	823	864	865	0	0	0	0	3	9	+1.0000e+000	
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792	825	824	865	866	0	0	0	0	3	9	+1.0000e+000	
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793	826	825	866	867	0	0	0	0	3	9	+1.0000e+000	

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794	827	826	867	868	0	0	0	0	3	9	+1.0000e+000	
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795	828	827	868	869	0	0	0	0	3	9	+1.0000e+000	
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796	829	828	869	870	0	0	0	0	3	9	+1.0000e+000	
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797	830	829	870	871	0	0	0	0	3	9	+1.0000e+000	
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798	831	830	871	872	0	0	0	0	3	9	+1.0000e+000	
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799	832	831	872	873	0	0	0	0	3	9	+1.0000e+000	
0	0											
800	836	846	874	845	0	0	0	0	2	9	+1.0000e+000	
0	0											
801	833	841	881	854	0	0	0	0	1	9	+1.0000e+000	
0	0											
802	837	848	875	846	0	0	0	0	2	9	+1.0000e+000	
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803	834	844	882	853	0	0	0	0	1	9	+1.0000e+000	
0	0											
804	838	849	876	848	0	0	0	0	2	9	+1.0000e+000	
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805	839	850	877	849	0	0	0	0	2	9	+1.0000e+000	
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806	840	851	878	850	0	0	0	0	2	9	+1.0000e+000	
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807	842	852	879	851	0	0	0	0	2	9	+1.0000e+000	
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808	843	853	880	852	0	0	0	0	2	9	+1.0000e+000	
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809	841	847	886	881	0	0	0	0	1	9	+1.0000e+000	
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810	846	875	883	874	0	0	0	0	2	9	+1.0000e+000	
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813	849	877	885	876	0	0	0	0	2	9	+1.0000e+000	
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814	850	878	887	877	0	0	0	0	2	9	+1.0000e+000	
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815	851	879	888	878	0	0	0	0	2	9	+1.0000e+000	
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816	852	880	889	879	0	0	0	0	2	9	+1.0000e+000	
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817	853	882	890	880	0	0	0	0	2	9	+1.0000e+000	
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818	847	873	894	886	0	0	0	0	1	9	+1.0000e+000	
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819	873	872	893	894	0	0	0	0	3	9	+1.0000e+000	
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820	865	864	895	896	0	0	0	0	3	9	+1.0000e+000	
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821	866	865	896	897	0	0	0	0	3	9	+1.0000e+000	
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822	867	866	897	898	0	0	0	0	3	9	+1.0000e+000	
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825	870	869	900	901	0	0	0	0	3	9	+1.0000e+000	
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826	871	870	901	902	0	0	0	0	3	9	+1.0000e+000	
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827	872	871	902	893	0	0	0	0	3	9	+1.0000e+000	
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829	857	856	904	905	0	0	0	0	3	9	+1.0000e+000	
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830	858	857	905	906	0	0	0	0	3	9	+1.0000e+000	
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831	859	858	906	907	0	0	0	0	3	9	+1.0000e+000	
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832	860	859	907	908	0	0	0	0	3	9	+1.0000e+000	
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833	861	860	908	909	0	0	0	0	3	9	+1.0000e+000	
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835	863	862	910	911	0	0	0	0	3	9	+1.0000e+000	
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837	854	881	918	891	0	0	0	0	1	9	+1.0000e+000	
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838	875	884	892	883	0	0	0	0	2	9	+1.0000e+000	
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839	876	885	912	884	0	0	0	0	2	9	+1.0000e+000	
0	0											
840	877	887	913	885	0	0	0	0	2	9	+1.0000e+000	
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841	878	888	914	887	0	0	0	0	2	9	+1.0000e+000	
0	0											
842	879	889	915	888	0	0	0	0	2	9	+1.0000e+000	
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843	880	890	916	889	0	0	0	0	2	9	+1.0000e+000	
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844	882	891	917	890	0	0	0	0	2	9	+1.0000e+000	
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845	881	886	926	918	0	0	0	0	1	9	+1.0000e+000	
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846	884	912	919	892	0	0	0	0	2	9	+1.0000e+000	
0	0											
847	885	913	920	912	0	0	0	0	2	9	+1.0000e+000	
0	0											
848	887	914	921	913	0	0	0	0	2	9	+1.0000e+000	
0	0											
849	888	915	922	914	0	0	0	0	2	9	+1.0000e+000	
0	0											
850	889	916	923	915	0	0	0	0	2	9	+1.0000e+000	
0	0											
851	890	917	924	916	0	0	0	0	2	9	+1.0000e+000	
0	0											
852	891	918	925	917	0	0	0	0	2	9	+1.0000e+000	
0	0											
853	886	894	936	926	0	0	0	0	1	9	+1.0000e+000	

0	0											
854	912	920	927	919	0	0	0	0	2	9	+1.0000e+000	
0	0											
855	913	921	928	920	0	0	0	0	2	9	+1.0000e+000	
0	0											
856	893	902	934	935	0	0	0	0	3	9	+1.0000e+000	
0	0											
857	894	893	935	936	0	0	0	0	3	9	+1.0000e+000	
0	0											
858	897	896	937	938	0	0	0	0	3	9	+1.0000e+000	
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859	898	897	938	939	0	0	0	0	3	9	+1.0000e+000	
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860	899	898	939	940	0	0	0	0	3	9	+1.0000e+000	
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0	0											
862	901	900	941	942	0	0	0	0	3	9	+1.0000e+000	
0	0											
863	902	901	942	934	0	0	0	0	3	9	+1.0000e+000	
0	0											
864	895	911	946	947	0	0	0	0	3	9	+1.0000e+000	
0	0											
865	896	895	947	937	0	0	0	0	3	9	+1.0000e+000	
0	0											
866	903	908	943	944	0	0	0	0	3	9	+1.0000e+000	
0	0											
867	910	909	944	945	0	0	0	0	3	9	+1.0000e+000	
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868	911	910	945	946	0	0	0	0	3	9	+1.0000e+000	
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869	914	922	929	921	0	0	0	0	2	9	+1.0000e+000	
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870	904	903	948	949	0	0	0	0	3	9	+1.0000e+000	
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871	905	904	949	950	0	0	0	0	3	9	+1.0000e+000	
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872	906	905	950	951	0	0	0	0	3	9	+1.0000e+000	
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873	907	906	951	952	0	0	0	0	3	9	+1.0000e+000	
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874	908	907	952	943	0	0	0	0	3	9	+1.0000e+000	
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875	915	923	930	922	0	0	0	0	2	9	+1.0000e+000	
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876	916	924	931	923	0	0	0	0	2	9	+1.0000e+000	
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877	917	925	932	924	0	0	0	0	2	9	+1.0000e+000	
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878	918	926	933	925	0	0	0	0	2	9	+1.0000e+000	
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881	922	930	955	929	0	0	0	0	2	9	+1.0000e+000	
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882	923	931	956	930	0	0	0	0	2	9	+1.0000e+000	
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885	926	936	960	933	0	0	0	0	2	9	+1.0000e+000	
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886	936	959	960	0	0	0	0	0	2	3	+1.0000e+000	
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887	959	936	935	961	0	0	0	0	3	4	+1.0000e+000	
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889	934	942	963	962	0	0	0	0	3	4	+1.0000e+000	
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893	940	939	967	968	0	0	0	0	3	9	+1.0000e+000	
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903	949	948	977	978	0	0	0	0	3	9	+1.0000e+000	
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908	931	957	982	956	0	0	0	0	2	9	+1.0000e+000	
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912	960	959	984	985	0	0	0	0	2	4	+1.0000e+000	
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920	969	968	988	989	0	0	0	0	3	9	+1.0000e+000	
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923	966	965	994	995	0	0	0	0	3	9	+1.0000e+000	
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937	988	1004	1009	987	0	0	0	0	2	9	+1.0000e+000	
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948	995	994	1016	1017	0	0	0	0	3	9	+1.0000e+000	
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963	1012	1015	1034	0	0	0	0	0	3	3	+1.0000e+000	
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968	1016	1027	1038	1039	0	0	0	0	3	9	+1.0000e+000	
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971	1019	1018	1041	1042	0	0	0	0	3	9	+1.0000e+000	
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972	1020	1019	1042	1043	0	0	0	0	3	9	+1.0000e+000	
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973	1021	1020	1043	1044	0	0	0	0	3	9	+1.0000e+000	

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974	1027	1026	1037	1038	0	0	0	0	3	9	+1.0000e+000	
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979	1026	1025	1052	1037	0	0	0	0	3	9	+1.0000e+000	
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982	1031	1030	1047	1048	0	0	0	0	3	9	+1.0000e+000	
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983	1015	1021	1044	1054	0	0	0	0	3	4	+1.0000e+000	
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1003	1049	1048	1074	1062	0	0	0	0	3	9	+1.0000e+000	

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1008	1077	1054	1078	0	0	0	0	0	2	3	+1.0000e+000	
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1013	1070	1069	1079	1080	0	0	0	0	3	9	+1.0000e+000	
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1014	1062	1074	1087	1088	0	0	0	0	3	9	+1.0000e+000	
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0	0											
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1026	1078	1061	1083	1099	0	0	0	0	3	4	+1.0000e+000	
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1030	1080	1079	1107	1108	0	0	0	0	3	9	+1.0000e+000	
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0	0											
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0	0											
1040	1087	1086	1114	1115	0	0	0	0	3	9	+1.0000e+000	
0	0											
1041	1088	1087	1115	1116	0	0	0	0	3	9	+1.0000e+000	
0	0											
1042	1089	1088	1116	1117	0	0	0	0	3	9	+1.0000e+000	
0	0											
1043	1090	1089	1117	1118	0	0	0	0	3	9	+1.0000e+000	
0	0											
1044	1091	1090	1118	1103	0	0	0	0	3	9	+1.0000e+000	
0	0											
1045	1098	1099	1100	1101	0	0	0	0	2	9	+1.0000e+000	
0	0											
1046	1097	1098	1101	1102	0	0	0	0	2	9	+1.0000e+000	
0	0											
1047	1096	1097	1102	1119	0	0	0	0	2	9	+1.0000e+000	
0	0											
1048	1095	1096	1119	1120	0	0	0	0	2	9	+1.0000e+000	
0	0											
1049	1100	1111	1121	0	0	0	0	0	3	3	+1.0000e+000	
0	0											
1050	1101	1100	1121	1122	0	0	0	0	2	9	+1.0000e+000	
0	0											
1051	1102	1101	1122	1123	0	0	0	0	2	9	+1.0000e+000	
0	0											
1052	1110	1109	1124	1125	0	0	0	0	3	9	+1.0000e+000	
0	0											
1053	1111	1110	1125	1126	0	0	0	0	3	9	+1.0000e+000	
0	0											
1054	1103	1118	1131	1132	0	0	0	0	3	9	+1.0000e+000	
0	0											
1055	1104	1103	1132	1133	0	0	0	0	3	9	+1.0000e+000	
0	0											
1056	1105	1104	1133	1134	0	0	0	0	3	9	+1.0000e+000	
0	0											
1057	1106	1105	1134	1135	0	0	0	0	3	9	+1.0000e+000	
0	0											
1058	1107	1106	1135	1136	0	0	0	0	3	9	+1.0000e+000	
0	0											
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0	0											
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0	0											
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0	0											
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0	0											
1063	1117	1116	1129	1130	0	0	0	0	3	9	+1.0000e+000	

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0	0											
1069	1120	1119	1141	1142	0	0	0	0	2	9	+1.0000e+000	
0	0											
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0	0											
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0	0											
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0	0											
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0	0											
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0	0											
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0	0											
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1101	1151	1181	1168	1164	0	0	0	0	3	4	+1.0000e+000	
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0	0											
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0	0											
1112	1166	1163	1167	1186	0	0	0	0	2	9	+1.0000e+000	
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1113	1167	1164	1168	1189	0	0	0	0	2	9	+1.0000e+000	
0	0											
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0	0											
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1121	1174	1173	1197	1198	0	0	0	0	3	9	+1.0000e+000	
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1122	1175	1174	1198	1199	0	0	0	0	3	9	+1.0000e+000	
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1123	1176	1175	1199	1200	0	0	0	0	3	9	+1.0000e+000	

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1128	1181	1180	1204	1205	0	0	0	0	3	9	+1.0000e+000	
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0	0											
1147	1197	1196	1221	1222	0	0	0	0	3	9	+1.0000e+000	
0	0											
1148	1198	1197	1222	1223	0	0	0	0	3	9	+1.0000e+000	
0	0											
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0	0											
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0	0											
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0	0											
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0	0											
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0	0											
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0	0											
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0	0											
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0	0											
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1417  1486  1513  1514  1487    0    0    0    0    3    9 +1.0000e+000
0   0
1418  1487  1514  1515  1488    0    0    0    0    3    9 +1.0000e+000
0   0
1419  1489  1498  1499  1490    0    0    0    0    3    9 +1.0000e+000
0   0
1420  1490  1499  1500  1491    0    0    0    0    3    9 +1.0000e+000
0   0
1421  1491  1500  1501  1492    0    0    0    0    3    9 +1.0000e+000
0   0
1422  1492  1501  1502  1493    0    0    0    0    3    9 +1.0000e+000
0   0
1423  1493  1502  1503  1494    0    0    0    0    3    9 +1.0000e+000
```



```
0   0
1424  1494  1503  1504  1495    0    0    0    0    3    9 +1.0000e+000
0   0
1425  1495  1504  1505  1496    0    0    0    0    3    9 +1.0000e+000
0   0
1426  1496  1505  1506  1497    0    0    0    0    3    9 +1.0000e+000
0   0
POLE            0
FLUX            0
DENSITY
+1.0000e+000 +1.0000e+000
WATERTABLE      0
qBOUNDARY       0
MATLCOLOR       4
    1   255   128    64
    2   255   255     0
    3   128   255   128
    4   255     0     0
```

8/19/2004
4:20:35 PM
0 +0.0000E+000 = Step Number, Elapsed time

Node#	Head	Flux(O)	Sum_Volume
1	+1.244329E+002	+0.000000E+000	+0.000000E+000
2	+1.161000E+002	-1.837953E+000	+0.000000E+000
3	+1.205000E+002	-6.816024E-001	+0.000000E+000
4	+1.249100E+002	-4.776263E-001	+0.000000E+000
5	+1.293100E+002	-3.668109E-001	+0.000000E+000
6	+1.337100E+002	-2.537223E-001	+0.000000E+000
7	+1.381100E+002	-2.739631E-003	+0.000000E+000
8	+1.390948E+002	+0.000000E+000	+0.000000E+000
9	+1.453377E+002	+0.000000E+000	+0.000000E+000
10	+1.485394E+002	+0.000000E+000	+0.000000E+000
11	+1.514699E+002	+0.000000E+000	+0.000000E+000
12	+1.538955E+002	+0.000000E+000	+0.000000E+000
13	+1.559345E+002	+0.000000E+000	+0.000000E+000
14	+1.576197E+002	+0.000000E+000	+0.000000E+000
15	+1.589687E+002	+0.000000E+000	+0.000000E+000
16	+1.600029E+002	+0.000000E+000	+0.000000E+000
17	+1.607341E+002	+0.000000E+000	+0.000000E+000
18	+1.611705E+002	+0.000000E+000	+0.000000E+000
19	+1.613160E+002	+0.000000E+000	+0.000000E+000
20	+1.612148E+002	+0.000000E+000	+0.000000E+000
21	+1.613597E+002	+0.000000E+000	+0.000000E+000
22	+1.590160E+002	+0.000000E+000	+0.000000E+000
23	+1.600484E+002	+0.000000E+000	+0.000000E+000
24	+1.607785E+002	+0.000000E+000	+0.000000E+000
25	+1.539592E+002	+0.000000E+000	+0.000000E+000
26	+1.559919E+002	+0.000000E+000	+0.000000E+000
27	+1.576693E+002	+0.000000E+000	+0.000000E+000
28	+1.451268E+002	+0.000000E+000	+0.000000E+000
29	+1.486694E+002	+0.000000E+000	+0.000000E+000
30	+1.515320E+002	+0.000000E+000	+0.000000E+000
31	+1.353733E+002	+0.000000E+000	+0.000000E+000
32	+1.386481E+002	+0.000000E+000	+0.000000E+000
33	+1.416611E+002	+0.000000E+000	+0.000000E+000
34	+1.242328E+002	+0.000000E+000	+0.000000E+000
35	+1.277899E+002	+0.000000E+000	+0.000000E+000
36	+1.315368E+002	+0.000000E+000	+0.000000E+000
37	+1.238896E+002	+0.000000E+000	+0.000000E+000
38	+1.227168E+002	+0.000000E+000	+0.000000E+000
39	+1.613455E+002	+0.000000E+000	+0.000000E+000
40	+1.614903E+002	+0.000000E+000	+0.000000E+000
41	+1.601865E+002	+0.000000E+000	+0.000000E+000
42	+1.609123E+002	+0.000000E+000	+0.000000E+000
43	+1.591603E+002	+0.000000E+000	+0.000000E+000
44	+1.561518E+002	+0.000000E+000	+0.000000E+000
45	+1.578180E+002	+0.000000E+000	+0.000000E+000
46	+1.541337E+002	+0.000000E+000	+0.000000E+000
47	+1.489564E+002	+0.000000E+000	+0.000000E+000
48	+1.517294E+002	+0.000000E+000	+0.000000E+000
49	+1.453138E+002	+0.000000E+000	+0.000000E+000
50	+1.428458E+002	+0.000000E+000	+0.000000E+000
51	+1.370882E+002	+0.000000E+000	+0.000000E+000
52	+1.400571E+002	+0.000000E+000	+0.000000E+000

53	+1.337614E+002	+0.000000E+000	+0.000000E+000
54	+1.279291E+002	+0.000000E+000	+0.000000E+000
55	+1.305803E+002	+0.000000E+000	+0.000000E+000
56	+1.266554E+002	+0.000000E+000	+0.000000E+000
57	+1.265861E+002	+0.000000E+000	+0.000000E+000
58	+1.617068E+002	+0.000000E+000	+0.000000E+000
59	+1.615634E+002	+0.000000E+000	+0.000000E+000
60	+1.611340E+002	+0.000000E+000	+0.000000E+000
61	+1.604129E+002	+0.000000E+000	+0.000000E+000
62	+1.593954E+002	+0.000000E+000	+0.000000E+000
63	+1.580691E+002	+0.000000E+000	+0.000000E+000
64	+1.564125E+002	+0.000000E+000	+0.000000E+000
65	+1.544351E+002	+0.000000E+000	+0.000000E+000
66	+1.520251E+002	+0.000000E+000	+0.000000E+000
67	+1.493528E+002	+0.000000E+000	+0.000000E+000
68	+1.463428E+002	+0.000000E+000	+0.000000E+000
69	+1.440214E+002	+0.000000E+000	+0.000000E+000
70	+1.414967E+002	+0.000000E+000	+0.000000E+000
71	+1.387540E+002	+0.000000E+000	+0.000000E+000
72	+1.359422E+002	+0.000000E+000	+0.000000E+000
73	+1.332823E+002	+0.000000E+000	+0.000000E+000
74	+1.311628E+002	+0.000000E+000	+0.000000E+000
75	+1.299828E+002	+0.000000E+000	+0.000000E+000
76	+1.296778E+002	+0.000000E+000	+0.000000E+000
77	+1.620892E+002	+0.000000E+000	+0.000000E+000
78	+1.618665E+002	+0.000000E+000	+0.000000E+000
79	+1.614412E+002	+0.000000E+000	+0.000000E+000
80	+1.607383E+002	+0.000000E+000	+0.000000E+000
81	+1.597236E+002	+0.000000E+000	+0.000000E+000
82	+1.584138E+002	+0.000000E+000	+0.000000E+000
83	+1.567829E+002	+0.000000E+000	+0.000000E+000
84	+1.548129E+002	+0.000000E+000	+0.000000E+000
85	+1.526168E+002	+0.000000E+000	+0.000000E+000
86	+1.492578E+002	+0.000000E+000	+0.000000E+000
87	+1.474058E+002	+0.000000E+000	+0.000000E+000
88	+1.453232E+002	+0.000000E+000	+0.000000E+000
89	+1.429878E+002	+0.000000E+000	+0.000000E+000
90	+1.405402E+002	+0.000000E+000	+0.000000E+000
91	+1.380853E+002	+0.000000E+000	+0.000000E+000
92	+1.358370E+002	+0.000000E+000	+0.000000E+000
93	+1.340678E+002	+0.000000E+000	+0.000000E+000
94	+1.330062E+002	+0.000000E+000	+0.000000E+000
95	+1.326745E+002	+0.000000E+000	+0.000000E+000
96	+1.623959E+002	+0.000000E+000	+0.000000E+000
97	+1.622551E+002	+0.000000E+000	+0.000000E+000
98	+1.618343E+002	+0.000000E+000	+0.000000E+000
99	+1.611333E+002	+0.000000E+000	+0.000000E+000
100	+1.601461E+002	+0.000000E+000	+0.000000E+000
101	+1.588578E+002	+0.000000E+000	+0.000000E+000
102	+1.572527E+002	+0.000000E+000	+0.000000E+000
103	+1.552930E+002	+0.000000E+000	+0.000000E+000
104	+1.531609E+002	+0.000000E+000	+0.000000E+000
105	+1.507829E+002	+0.000000E+000	+0.000000E+000
106	+1.486769E+002	+0.000000E+000	+0.000000E+000
107	+1.466572E+002	+0.000000E+000	+0.000000E+000
108	+1.445222E+002	+0.000000E+000	+0.000000E+000
109	+1.423250E+002	+0.000000E+000	+0.000000E+000
110	+1.401750E+002	+0.000000E+000	+0.000000E+000

113	+1.358036E+002	+0.000000E+000	+0.000000E+000
114	+1.354932E+002	+0.000000E+000	+0.000000E+000
115	+1.628667E+002	+0.000000E+000	+0.000000E+000
116	+1.627268E+002	+0.000000E+000	+0.000000E+000
117	+1.623126E+002	+0.000000E+000	+0.000000E+000
118	+1.616242E+002	+0.000000E+000	+0.000000E+000
119	+1.606553E+002	+0.000000E+000	+0.000000E+000
120	+1.593975E+002	+0.000000E+000	+0.000000E+000
121	+1.578085E+002	+0.000000E+000	+0.000000E+000
122	+1.559415E+002	+0.000000E+000	+0.000000E+000
123	+1.534095E+002	+0.000000E+000	+0.000000E+000
124	+1.517655E+002	+0.000000E+000	+0.000000E+000
125	+1.499694E+002	+0.000000E+000	+0.000000E+000
126	+1.480438E+002	+0.000000E+000	+0.000000E+000
127	+1.460765E+002	+0.000000E+000	+0.000000E+000
128	+1.440998E+002	+0.000000E+000	+0.000000E+000
129	+1.422065E+002	+0.000000E+000	+0.000000E+000
130	+1.405296E+002	+0.000000E+000	+0.000000E+000
131	+1.392254E+002	+0.000000E+000	+0.000000E+000
132	+1.384070E+002	+0.000000E+000	+0.000000E+000
133	+1.381301E+002	+0.000000E+000	+0.000000E+000
134	+1.634199E+002	+0.000000E+000	+0.000000E+000
135	+1.632818E+002	+0.000000E+000	+0.000000E+000
136	+1.628721E+002	+0.000000E+000	+0.000000E+000
137	+1.621961E+002	+0.000000E+000	+0.000000E+000
138	+1.612527E+002	+0.000000E+000	+0.000000E+000
139	+1.600338E+002	+0.000000E+000	+0.000000E+000
140	+1.584841E+002	+0.000000E+000	+0.000000E+000
141	+1.565857E+002	+0.000000E+000	+0.000000E+000
142	+1.544764E+002	+0.000000E+000	+0.000000E+000
143	+1.529568E+002	+0.000000E+000	+0.000000E+000
144	+1.512368E+002	+0.000000E+000	+0.000000E+000
145	+1.494530E+002	+0.000000E+000	+0.000000E+000
146	+1.476408E+002	+0.000000E+000	+0.000000E+000
147	+1.458501E+002	+0.000000E+000	+0.000000E+000
148	+1.441687E+002	+0.000000E+000	+0.000000E+000
149	+1.426986E+002	+0.000000E+000	+0.000000E+000
150	+1.415611E+002	+0.000000E+000	+0.000000E+000
151	+1.408443E+002	+0.000000E+000	+0.000000E+000
152	+1.406001E+002	+0.000000E+000	+0.000000E+000
153	+1.640558E+002	+0.000000E+000	+0.000000E+000
154	+1.639173E+002	+0.000000E+000	+0.000000E+000
155	+1.635129E+002	+0.000000E+000	+0.000000E+000
156	+1.628480E+002	+0.000000E+000	+0.000000E+000
157	+1.619304E+002	+0.000000E+000	+0.000000E+000
158	+1.607543E+002	+0.000000E+000	+0.000000E+000
159	+1.593233E+002	+0.000000E+000	+0.000000E+000
160	+1.571911E+002	+0.000000E+000	+0.000000E+000
161	+1.557491E+002	+0.000000E+000	+0.000000E+000
162	+1.541477E+002	+0.000000E+000	+0.000000E+000
163	+1.525344E+002	+0.000000E+000	+0.000000E+000
164	+1.508669E+002	+0.000000E+000	+0.000000E+000
165	+1.491971E+002	+0.000000E+000	+0.000000E+000
166	+1.475709E+002	+0.000000E+000	+0.000000E+000
167	+1.460672E+002	+0.000000E+000	+0.000000E+000
168	+1.447672E+002	+0.000000E+000	+0.000000E+000
169	+1.437667E+002	+0.000000E+000	+0.000000E+000
170	+1.431368E+002	+0.000000E+000	+0.000000E+000
171	+1.429221E+002	+0.000000E+000	+0.000000E+000
172	+1.647736E+002	+0.000000E+000	+0.000000E+000

173	+1.646341E+002	+0.000000E+000	+0.000000E+000
174	+1.642293E+002	+0.000000E+000	+0.000000E+000
175	+1.635792E+002	+0.000000E+000	+0.000000E+000
176	+1.626823E+002	+0.000000E+000	+0.000000E+000
177	+1.615662E+002	+0.000000E+000	+0.000000E+000
178	+1.601963E+002	+0.000000E+000	+0.000000E+000
179	+1.585994E+002	+0.000000E+000	+0.000000E+000
180	+1.569070E+002	+0.000000E+000	+0.000000E+000
181	+1.553922E+002	+0.000000E+000	+0.000000E+000
182	+1.538456E+002	+0.000000E+000	+0.000000E+000
183	+1.522836E+002	+0.000000E+000	+0.000000E+000
184	+1.507401E+002	+0.000000E+000	+0.000000E+000
185	+1.492576E+002	+0.000000E+000	+0.000000E+000
186	+1.479038E+002	+0.000000E+000	+0.000000E+000
187	+1.467473E+002	+0.000000E+000	+0.000000E+000
188	+1.458589E+002	+0.000000E+000	+0.000000E+000
189	+1.453823E+002	+0.000000E+000	+0.000000E+000
190	+1.451126E+002	+0.000000E+000	+0.000000E+000
191	+1.655764E+002	+0.000000E+000	+0.000000E+000
192	+1.654297E+002	+0.000000E+000	+0.000000E+000
193	+1.650211E+002	+0.000000E+000	+0.000000E+000
194	+1.643768E+002	+0.000000E+000	+0.000000E+000
195	+1.635231E+002	+0.000000E+000	+0.000000E+000
196	+1.623716E+002	+0.000000E+000	+0.000000E+000
197	+1.613469E+002	+0.000000E+000	+0.000000E+000
198	+1.595878E+002	+0.000000E+000	+0.000000E+000
199	+1.581119E+002	+0.000000E+000	+0.000000E+000
200	+1.566356E+002	+0.000000E+000	+0.000000E+000
201	+1.551629E+002	+0.000000E+000	+0.000000E+000
202	+1.536988E+002	+0.000000E+000	+0.000000E+000
203	+1.522651E+002	+0.000000E+000	+0.000000E+000
204	+1.509103E+002	+0.000000E+000	+0.000000E+000
205	+1.496810E+002	+0.000000E+000	+0.000000E+000
206	+1.486428E+002	+0.000000E+000	+0.000000E+000
207	+1.478503E+002	+0.000000E+000	+0.000000E+000
208	+1.473555E+002	+0.000000E+000	+0.000000E+000
209	+1.471872E+002	+0.000000E+000	+0.000000E+000
210	+1.664711E+002	+0.000000E+000	+0.000000E+000
211	+1.663842E+002	+0.000000E+000	+0.000000E+000
212	+1.658787E+002	+0.000000E+000	+0.000000E+000
213	+1.652473E+002	+0.000000E+000	+0.000000E+000
214	+1.644028E+002	+0.000000E+000	+0.000000E+000
215	+1.634160E+002	+0.000000E+000	+0.000000E+000
216	+1.616693E+002	+0.000000E+000	+0.000000E+000
217	+1.606852E+002	+0.000000E+000	+0.000000E+000
218	+1.592954E+002	+0.000000E+000	+0.000000E+000
219	+1.578808E+002	+0.000000E+000	+0.000000E+000
220	+1.564787E+002	+0.000000E+000	+0.000000E+000
221	+1.551015E+002	+0.000000E+000	+0.000000E+000
222	+1.537682E+002	+0.000000E+000	+0.000000E+000
223	+1.525215E+002	+0.000000E+000	+0.000000E+000
224	+1.514016E+002	+0.000000E+000	+0.000000E+000
225	+1.504634E+002	+0.000000E+000	+0.000000E+000
226	+1.497513E+002	+0.000000E+000	+0.000000E+000
227	+1.493089E+002	+0.000000E+000	+0.000000E+000
228	+1.491593E+002	+0.000000E+000	+0.000000E+000
229	+1.674918E+002	+0.000000E+000	+0.000000E+000
230	+1.672414E+002	+0.000000E+000	+0.000000E+000

```
111 +1.382474E+002 +0.000000E+000 +0.000000E+000
112 +1.367380E+002 +0.000000E+000 +0.000000E+000
```

```
231 +1.668033E+002 +0.000000E+000 +0.000000E+000
232 +1.661674E+002 +0.000000E+000 +0.000000E+000
```

233	+1.653773E+002	+0.000000E+000	+0.000000E+000
234	+1.643635E+002	+0.000000E+000	+0.000000E+000
235	+1.631965E+002	+0.000000E+000	+0.000000E+000
236	+1.618206E+002	+0.000000E+000	+0.000000E+000
237	+1.604717E+002	+0.000000E+000	+0.000000E+000
238	+1.591238E+002	+0.000000E+000	+0.000000E+000
239	+1.577921E+002	+0.000000E+000	+0.000000E+000
240	+1.564910E+002	+0.000000E+000	+0.000000E+000
241	+1.552466E+002	+0.000000E+000	+0.000000E+000
242	+1.540944E+002	+0.000000E+000	+0.000000E+000
243	+1.530682E+002	+0.000000E+000	+0.000000E+000
244	+1.522148E+002	+0.000000E+000	+0.000000E+000
245	+1.515708E+002	+0.000000E+000	+0.000000E+000
246	+1.511724E+002	+0.000000E+000	+0.000000E+000
247	+1.510409E+002	+0.000000E+000	+0.000000E+000
248	+1.686275E+002	+0.000000E+000	+0.000000E+000
249	+1.683012E+002	+0.000000E+000	+0.000000E+000
250	+1.678499E+002	+0.000000E+000	+0.000000E+000
251	+1.672474E+002	+0.000000E+000	+0.000000E+000
252	+1.664079E+002	+0.000000E+000	+0.000000E+000
253	+1.656901E+002	+0.000000E+000	+0.000000E+000
254	+1.643454E+002	+0.000000E+000	+0.000000E+000
255	+1.630352E+002	+0.000000E+000	+0.000000E+000
256	+1.617472E+002	+0.000000E+000	+0.000000E+000
257	+1.604489E+002	+0.000000E+000	+0.000000E+000
258	+1.591766E+002	+0.000000E+000	+0.000000E+000
259	+1.579417E+002	+0.000000E+000	+0.000000E+000
260	+1.567732E+002	+0.000000E+000	+0.000000E+000
261	+1.556949E+002	+0.000000E+000	+0.000000E+000
262	+1.547439E+002	+0.000000E+000	+0.000000E+000
263	+1.539564E+002	+0.000000E+000	+0.000000E+000
264	+1.533676E+002	+0.000000E+000	+0.000000E+000
265	+1.530833E+002	+0.000000E+000	+0.000000E+000
266	+1.528843E+002	+0.000000E+000	+0.000000E+000
267	+1.697678E+002	+0.000000E+000	+0.000000E+000
268	+1.689559E+002	+0.000000E+000	+0.000000E+000
269	+1.694154E+002	+0.000000E+000	+0.000000E+000
270	+1.683408E+002	+0.000000E+000	+0.000000E+000
271	+1.662885E+002	+0.000000E+000	+0.000000E+000
272	+1.676619E+002	+0.000000E+000	+0.000000E+000
273	+1.655816E+002	+0.000000E+000	+0.000000E+000
274	+1.630151E+002	+0.000000E+000	+0.000000E+000
275	+1.642776E+002	+0.000000E+000	+0.000000E+000
276	+1.617660E+002	+0.000000E+000	+0.000000E+000
277	+1.593682E+002	+0.000000E+000	+0.000000E+000
278	+1.605439E+002	+0.000000E+000	+0.000000E+000
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280	+1.572521E+002	+0.000000E+000	+0.000000E+000
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283	+1.550911E+002	+0.000000E+000	+0.000000E+000
284	+1.546476E+002	+0.000000E+000	+0.000000E+000
285	+1.547572E+002	+0.000000E+000	+0.000000E+000
286	+1.563383E+002	+0.000000E+000	+0.000000E+000
287	+1.564391E+002	+0.000000E+000	+0.000000E+000
288	+1.567491E+002	+0.000000E+000	+0.000000E+000
289	+1.572549E+002	+0.000000E+000	+0.000000E+000
290	+1.579361E+002	+0.000000E+000	+0.000000E+000
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551	+1.936078E+002	+0.000000E+000	+0.000000E+000
552	+1.952295E+002	+0.000000E+000	+0.000000E+000
553	+2.030188E+002	+0.000000E+000	+0.000000E+000
554	+1.997089E+002	+0.000000E+000	+0.000000E+000
555	+2.023805E+002	+0.000000E+000	+0.000000E+000
556	+2.016065E+002	+0.000000E+000	+0.000000E+000
557	+1.967152E+002	+0.000000E+000	+0.000000E+000
558	+2.032050E+002	+0.000000E+000	+0.000000E+000
559	+2.009928E+002	+0.000000E+000	+0.000000E+000
560	+1.980962E+002	+0.000000E+000	+0.000000E+000
561	+2.027484E+002	+0.000000E+000	+0.000000E+000
562	+1.715533E+002	+0.000000E+000	+0.000000E+000
563	+1.716185E+002	+0.000000E+000	+0.000000E+000
564	+1.718083E+002	+0.000000E+000	+0.000000E+000
565	+1.993975E+002	+0.000000E+000	+0.000000E+000
566	+1.721235E+002	+0.000000E+000	+0.000000E+000
567	+1.725547E+002	+0.000000E+000	+0.000000E+000
568	+1.731003E+002	+0.000000E+000	+0.000000E+000
569	+1.737471E+002	+0.000000E+000	+0.000000E+000
570	+1.744915E+002	+0.000000E+000	+0.000000E+000
571	+1.753178E+002	+0.000000E+000	+0.000000E+000
572	+1.762210E+002	+0.000000E+000	+0.000000E+000
573	+1.771885E+002	+0.000000E+000	+0.000000E+000
574	+1.782127E+002	+0.000000E+000	+0.000000E+000
575	+1.792843E+002	+0.000000E+000	+0.000000E+000
576	+1.804008E+002	+0.000000E+000	+0.000000E+000
577	+1.815559E+002	+0.000000E+000	+0.000000E+000
578	+1.827921E+002	+0.000000E+000	+0.000000E+000
579	+1.839754E+002	+0.000000E+000	+0.000000E+000
580	+1.856729E+002	+0.000000E+000	+0.000000E+000
581	+1.876752E+002	+0.000000E+000	+0.000000E+000
582	+2.034130E+002	+0.000000E+000	+0.000000E+000
583	+2.021527E+002	+0.000000E+000	+0.000000E+000
584	+1.982982E+002	+0.000000E+000	+0.000000E+000
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831	+1.906028E+002	+0.000000E+000	+0.000000E+000
832	+1.928036E+002	+0.000000E+000	+0.000000E+000

833	+2.004342E+002	+0.000000E+000	+0.000000E+000
834	+2.041821E+002	+0.000000E+000	+0.000000E+000
835	+2.135000E+002	+1.337278E-002	+0.000000E+000
836	+2.127951E+002	+0.000000E+000	+0.000000E+000
837	+2.119744E+002	+0.000000E+000	+0.000000E+000
838	+2.110424E+002	+0.000000E+000	+0.000000E+000
839	+2.100026E+002	+0.000000E+000	+0.000000E+000
840	+2.088431E+002	+0.000000E+000	+0.000000E+000
841	+1.986746E+002	+0.000000E+000	+0.000000E+000
842	+2.075537E+002	+0.000000E+000	+0.000000E+000
843	+2.061468E+002	+0.000000E+000	+0.000000E+000
844	+2.028592E+002	+0.000000E+000	+0.000000E+000
845	+2.135000E+002	+1.528798E-002	+0.000000E+000
846	+2.127037E+002	+0.000000E+000	+0.000000E+000
847	+1.964490E+002	+0.000000E+000	+0.000000E+000
848	+2.117959E+002	+0.000000E+000	+0.000000E+000
849	+2.107542E+002	+0.000000E+000	+0.000000E+000
850	+2.095859E+002	+0.000000E+000	+0.000000E+000
851	+2.082839E+002	+0.000000E+000	+0.000000E+000
852	+2.068329E+002	+0.000000E+000	+0.000000E+000
853	+2.052254E+002	+0.000000E+000	+0.000000E+000
854	+2.013342E+002	+0.000000E+000	+0.000000E+000
855	+1.777805E+002	+0.000000E+000	+0.000000E+000
856	+1.778413E+002	+0.000000E+000	+0.000000E+000
857	+1.780226E+002	+0.000000E+000	+0.000000E+000
858	+1.783234E+002	+0.000000E+000	+0.000000E+000
859	+1.787394E+002	+0.000000E+000	+0.000000E+000
860	+1.792684E+002	+0.000000E+000	+0.000000E+000
861	+1.799029E+002	+0.000000E+000	+0.000000E+000
862	+1.806395E+002	+0.000000E+000	+0.000000E+000
863	+1.814672E+002	+0.000000E+000	+0.000000E+000
864	+1.823803E+002	+0.000000E+000	+0.000000E+000
865	+1.833637E+002	+0.000000E+000	+0.000000E+000
866	+1.844083E+002	+0.000000E+000	+0.000000E+000
867	+1.854940E+002	+0.000000E+000	+0.000000E+000
868	+1.866094E+002	+0.000000E+000	+0.000000E+000
869	+1.877392E+002	+0.000000E+000	+0.000000E+000
870	+1.888941E+002	+0.000000E+000	+0.000000E+000
871	+1.901176E+002	+0.000000E+000	+0.000000E+000
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873	+1.930739E+002	+0.000000E+000	+0.000000E+000
874	+2.135000E+002	+1.715061E-002	+0.000000E+000
875	+2.126096E+002	+0.000000E+000	+0.000000E+000
876	+2.115889E+002	+0.000000E+000	+0.000000E+000
877	+2.104204E+002	+0.000000E+000	+0.000000E+000
878	+2.091026E+002	+0.000000E+000	+0.000000E+000
879	+2.076152E+002	+0.000000E+000	+0.000000E+000
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881	+1.994125E+002	+0.000000E+000	+0.000000E+000
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887	+2.100221E+002	+0.000000E+000	+0.000000E+000
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890	+2.048578E+002	+0.000000E+000	+0.000000E+000
891	+2.026765E+002	+0.000000E+000	+0.000000E+000
892	+2.135000E+002	+2.165329E-002	+0.000000E+000

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894	+1.939116E+002	+0.000000E+000	+0.000000E+000
895	+1.833304E+002	+0.000000E+000	+0.000000E+000
896	+1.843292E+002	+0.000000E+000	+0.000000E+000
897	+1.853903E+002	+0.000000E+000	+0.000000E+000
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906	+1.792316E+002	+0.000000E+000	+0.000000E+000
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908	+1.801829E+002	+0.000000E+000	+0.000000E+000
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911	+1.824054E+002	+0.000000E+000	+0.000000E+000
912	+2.123721E+002	+0.000000E+000	+0.000000E+000
913	+2.110539E+002	+0.000000E+000	+0.000000E+000
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917	+2.034662E+002	+0.000000E+000	+0.000000E+000
918	+2.008519E+002	+0.000000E+000	+0.000000E+000
919	+2.135000E+002	+2.470875E-002	+0.000000E+000
920	+2.122182E+002	+0.000000E+000	+0.000000E+000
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1087	+1.830075E+002	+0.000000E+000	+0.000000E+000
1088	+1.834515E+002	+0.000000E+000	+0.000000E+000
1089	+1.840181E+002	+0.000000E+000	+0.000000E+000
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1092	+1.864345E+002	+0.000000E+000	+0.000000E+000
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1101	+1.991014E+002	+0.000000E+000	+0.000000E+000
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1108	+1.917171E+002	+0.000000E+000	+0.000000E+000
1109	+1.931065E+002	+0.000000E+000	+0.000000E+000
1110	+1.944729E+002	+0.000000E+000	+0.000000E+000
1111	+1.955916E+002	+0.000000E+000	+0.000000E+000
1112	+1.828696E+002	+0.000000E+000	+0.000000E+000
1113	+1.829269E+002	+0.000000E+000	+0.000000E+000
1114	+1.831204E+002	+0.000000E+000	+0.000000E+000
1115	+1.834420E+002	+0.000000E+000	+0.000000E+000
1116	+1.838896E+002	+0.000000E+000	+0.000000E+000
1117	+1.844622E+002	+0.000000E+000	+0.000000E+000
1118	+1.851581E+002	+0.000000E+000	+0.000000E+000
1119	+2.079587E+002	+0.000000E+000	+0.000000E+000
1120	+2.135000E+002	+3.797499E-002	+0.000000E+000
1121	+1.964566E+002	+0.000000E+000	+0.000000E+000
1122	+2.000981E+002	+0.000000E+000	+0.000000E+000
1123	+2.041201E+002	+0.000000E+000	+0.000000E+000
1124	+1.937644E+002	+0.000000E+000	+0.000000E+000
1125	+1.952435E+002	+0.000000E+000	+0.000000E+000
1126	+1.965631E+002	+0.000000E+000	+0.000000E+000
1127	+1.835353E+002	+0.000000E+000	+0.000000E+000
1128	+1.838599E+002	+0.000000E+000	+0.000000E+000
1129	+1.843119E+002	+0.000000E+000	+0.000000E+000
1130	+1.848907E+002	+0.000000E+000	+0.000000E+000
1131	+1.855968E+002	+0.000000E+000	+0.000000E+000
1132	+1.864253E+002	+0.000000E+000	+0.000000E+000

1133	+1.873753E+002	+0.000000E+000	+0.000000E+000
1134	+1.884461E+002	+0.000000E+000	+0.000000E+000
1135	+1.896289E+002	+0.000000E+000	+0.000000E+000
1136	+1.909190E+002	+0.000000E+000	+0.000000E+000
1137	+1.923078E+002	+0.000000E+000	+0.000000E+000
1138	+1.832743E+002	+0.000000E+000	+0.000000E+000
1139	+1.833410E+002	+0.000000E+000	+0.000000E+000
1140	+1.971661E+002	+0.000000E+000	+0.000000E+000
1141	+2.086582E+002	+0.000000E+000	+0.000000E+000
1142	+2.135000E+002	+3.262850E-002	+0.000000E+000
1143	+2.009687E+002	+0.000000E+000	+0.000000E+000
1144	+1.979132E+002	+0.000000E+000	+0.000000E+000
1145	+2.049458E+002	+0.000000E+000	+0.000000E+000
1146	+1.981239E+002	+0.000000E+000	+0.000000E+000
1147	+1.914494E+002	+0.000000E+000	+0.000000E+000
1148	+1.928881E+002	+0.000000E+000	+0.000000E+000
1149	+1.944200E+002	+0.000000E+000	+0.000000E+000
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1151	+1.976134E+002	+0.000000E+000	+0.000000E+000
1152	+1.836725E+002	+0.000000E+000	+0.000000E+000
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1165	+2.135000E+002	+2.929389E-002	+0.000000E+000
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1167	+2.026045E+002	+0.000000E+000	+0.000000E+000
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1173	+1.872792E+002	+0.000000E+000	+0.000000E+000
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1176	+1.906060E+002	+0.000000E+000	+0.000000E+000
1177	+1.919679E+002	+0.000000E+000	+0.000000E+000
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1179	+1.950677E+002	+0.000000E+000	+0.000000E+000
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1189	+2.033765E+002	+0.000000E+000	+0.000000E+000
1190	+1.844228E+002	+0.000000E+000	+0.000000E+000
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1199	+1.898108E+002	+0.000000E+000	+0.000000E+000
1200	+1.910733E+002	+0.000000E+000	+0.000000E+000
1201	+1.924715E+002	+0.000000E+000	+0.000000E+000
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1371	+1.880496E+002	+0.000000E+000	+0.000000E+000
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1377	+1.903979E+002	+0.000000E+000	+0.000000E+000
1378	+1.914379E+002	+0.000000E+000	+0.000000E+000
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1381	+1.956494E+002	+0.000000E+000	+0.000000E+000
1382	+1.974587E+002	+0.000000E+000	+0.000000E+000
1383	+1.994995E+002	+0.000000E+000	+0.000000E+000
1384	+1.875777E+002	+0.000000E+000	+0.000000E+000
1385	+1.876555E+002	+0.000000E+000	+0.000000E+000
1386	+1.878878E+002	+0.000000E+000	+0.000000E+000
1387	+1.882763E+002	+0.000000E+000	+0.000000E+000
1388	+1.888226E+002	+0.000000E+000	+0.000000E+000
1389	+1.895294E+002	+0.000000E+000	+0.000000E+000
1390	+2.103902E+002	+0.000000E+000	+0.000000E+000
1391	+2.135000E+002	+1.219559E-001	+0.000000E+000
1392	+1.916611E+002	+0.000000E+000	+0.000000E+000
1393	+1.928849E+002	+0.000000E+000	+0.000000E+000
1394	+1.942977E+002	+0.000000E+000	+0.000000E+000
1395	+1.959083E+002	+0.000000E+000	+0.000000E+000
1396	+1.977393E+002	+0.000000E+000	+0.000000E+000
1397	+1.997758E+002	+0.000000E+000	+0.000000E+000
1398	+2.020670E+002	+0.000000E+000	+0.000000E+000
1399	+2.046124E+002	+0.000000E+000	+0.000000E+000
1400	+2.073969E+002	+0.000000E+000	+0.000000E+000
1401	+1.877703E+002	+0.000000E+000	+0.000000E+000
1402	+1.878487E+002	+0.000000E+000	+0.000000E+000
1403	+1.880830E+002	+0.000000E+000	+0.000000E+000
1404	+1.884733E+002	+0.000000E+000	+0.000000E+000
1405	+1.890233E+002	+0.000000E+000	+0.000000E+000
1406	+1.897351E+002	+0.000000E+000	+0.000000E+000
1407	+1.906127E+002	+0.000000E+000	+0.000000E+000
1408	+1.961240E+002	+0.000000E+000	+0.000000E+000
1409	+1.979558E+002	+0.000000E+000	+0.000000E+000
1410	+2.000891E+002	+0.000000E+000	+0.000000E+000
1411	+2.022969E+002	+0.000000E+000	+0.000000E+000
1412	+2.048154E+002	+0.000000E+000	+0.000000E+000
1413	+2.075598E+002	+0.000000E+000	+0.000000E+000
1414	+2.104819E+002	+0.000000E+000	+0.000000E+000
1415	+2.135000E+002	+1.179124E-001	+0.000000E+000
1416	+1.879339E+002	+0.000000E+000	+0.000000E+000
1417	+1.880125E+002	+0.000000E+000	+0.000000E+000
1418	+1.882479E+002	+0.000000E+000	+0.000000E+000
1419	+1.886414E+002	+0.000000E+000	+0.000000E+000
1420	+1.891950E+002	+0.000000E+000	+0.000000E+000
1421	+1.899115E+002	+0.000000E+000	+0.000000E+000
1422	+1.907931E+002	+0.000000E+000	+0.000000E+000
1423	+1.918487E+002	+0.000000E+000	+0.000000E+000
1424	+1.930838E+002	+0.000000E+000	+0.000000E+000
1425	+1.945067E+002	+0.000000E+000	+0.000000E+000
1426	+2.024764E+002	+0.000000E+000	+0.000000E+000
1427	+2.049811E+002	+0.000000E+000	+0.000000E+000
1428	+2.076881E+002	+0.000000E+000	+0.000000E+000
1429	+2.105523E+002	+0.000000E+000	+0.000000E+000
1430	+2.135000E+002	+1.159106E-001	+0.000000E+000
1431	+1.886681E+002	+0.000000E+000	+0.000000E+000
1432	+1.881471E+002	+0.000000E+000	+0.000000E+000

1433	+1.883839E+002	+0.000000E+000	+0.000000E+000
1434	+1.887785E+002	+0.000000E+000	+0.000000E+000
1435	+1.893346E+002	+0.000000E+000	+0.000000E+000
1436	+1.900547E+002	+0.000000E+000	+0.000000E+000
1437	+1.909430E+002	+0.000000E+000	+0.000000E+000
1438	+1.920048E+002	+0.000000E+000	+0.000000E+000
1439	+1.932443E+002	+0.000000E+000	+0.000000E+000
1440	+1.946748E+002	+0.000000E+000	+0.000000E+000
1441	+1.963039E+002	+0.000000E+000	+0.000000E+000
1442	+1.981420E+002	+0.000000E+000	+0.000000E+000
1443	+2.001946E+002	+0.000000E+000	+0.000000E+000
1444	+2.135000E+002	+1.134743E-001	+0.000000E+000
1445	+1.884892E+002	+0.000000E+000	+0.000000E+000
1446	+1.888862E+002	+0.000000E+000	+0.000000E+000
1447	+1.894448E+002	+0.000000E+000	+0.000000E+000
1448	+1.901664E+002	+0.000000E+000	+0.000000E+000
1449	+1.910582E+002	+0.000000E+000	+0.000000E+000
1450	+1.921245E+002	+0.000000E+000	+0.000000E+000
1451	+1.933720E+002	+0.000000E+000	+0.000000E+000
1452	+1.948089E+002	+0.000000E+000	+0.000000E+000
1453	+1.964443E+002	+0.000000E+000	+0.000000E+000
1454	+1.982832E+002	+0.000000E+000	+0.000000E+000
1455	+2.003416E+002	+0.000000E+000	+0.000000E+000
1456	+2.026187E+002	+0.000000E+000	+0.000000E+000
1457	+2.051079E+002	+0.000000E+000	+0.000000E+000
1458	+2.077796E+002	+0.000000E+000	+0.000000E+000
1459	+2.106805E+002	+0.000000E+000	+0.000000E+000
1460	+1.881726E+002	+0.000000E+000	+0.000000E+000
1461	+1.882518E+002	+0.000000E+000	+0.000000E+000
1462	+1.885646E+002	+0.000000E+000	+0.000000E+000
1463	+1.889626E+002	+0.000000E+000	+0.000000E+000
1464	+1.895226E+002	+0.000000E+000	+0.000000E+000
1465	+1.902479E+002	+0.000000E+000	+0.000000E+000
1466	+1.911428E+002	+0.000000E+000	+0.000000E+000
1467	+1.922102E+002	+0.000000E+000	+0.000000E+000
1468	+1.934614E+002	+0.000000E+000	+0.000000E+000
1469	+1.949023E+002	+0.000000E+000	+0.000000E+000
1470	+1.965416E+002	+0.000000E+000	+0.000000E+000
1471	+1.983878E+002	+0.000000E+000	+0.000000E+000
1472	+2.004471E+002	+0.000000E+000	+0.000000E+000
1473	+2.027152E+002	+0.000000E+000	+0.000000E+000
1474	+2.051924E+002	+0.000000E+000	+0.000000E+000
1475	+2.078488E+002	+0.000000E+000	+0.000000E+000
1476	+2.106393E+002	+0.000000E+000	+0.000000E+000
1477	+2.135000E+002	+1.118883E-001	+0.000000E+000
1478	+1.882475E+002	+0.000000E+000	+0.000000E+000
1479	+1.883266E+002	+0.000000E+000	+0.000000E+000
1480	+1.949617E+002	+0.000000E+000	+0.000000E+000
1481	+1.966038E+002	+0.000000E+000	+0.000000E+000
1482	+1.984479E+002	+0.000000E+000	+0.000000E+000
1483	+2.005072E+002	+0.000000E+000	+0.000000E+000
1484	+2.027775E+002	+0.000000E+000	+0.000000E+000
1485	+2.052479E+002	+0.000000E+000	+0.000000E+000
1486	+2.078918E+002	+0.000000E+000	+0.000000E+000
1487	+2.106646E+002	+0.000000E+000	+0.000000E+000
1488	+2.135000E+002	+1.105250E-001	+0.000000E+000
1489	+1.882923E+002	+0.000000E+000	+0.000000E+000
1490	+1.883719E+002	+0.000000E+000	+0.000000E+000
1491	+1.886106E+002	+0.000000E+000	+0.000000E+000
1492	+1.890096E+002	+0.000000E+000	+0.000000E+000

1493	+1.895695E+002	+0.000000E+000	+0.000000E+000
1494	+1.902959E+002	+0.000000E+000	+0.000000E+000
1495	+1.911923E+002	+0.000000E+000	+0.000000E+000
1496	+1.922641E+002	+0.000000E+000	+0.000000E+000
1497	+1.935180E+002	+0.000000E+000	+0.000000E+000
1498	+1.883073E+002	+0.000000E+000	+0.000000E+000
1499	+1.883869E+002	+0.000000E+000	+0.000000E+000
1500	+1.886257E+002	+0.000000E+000	+0.000000E+000
1501	+1.890248E+002	+0.000000E+000	+0.000000E+000
1502	+1.895864E+002	+0.000000E+000	+0.000000E+000
1503	+1.903136E+002	+0.000000E+000	+0.000000E+000
1504	+1.912109E+002	+0.000000E+000	+0.000000E+000
1505	+1.922837E+002	+0.000000E+000	+0.000000E+000
1506	+1.935359E+002	+0.000000E+000	+0.000000E+000
1507	+1.949804E+002	+0.000000E+000	+0.000000E+000
1508	+1.966233E+002	+0.000000E+000	+0.000000E+000
1509	+1.984720E+002	+0.000000E+000	+0.000000E+000
1510	+2.005319E+002	+0.000000E+000	+0.000000E+000
1511	+2.028016E+002	+0.000000E+000	+0.000000E+000
1512	+2.052699E+002	+0.000000E+000	+0.000000E+000
1513	+2.079100E+002	+0.000000E+000	+0.000000E+000
1514	+2.106704E+002	+0.000000E+000	+0.000000E+000
1515	+2.135000E+002	+5.534605E-002	+0.000000E+000

8/19/2004
4:20:35 PM
0 +0.0000E+000 = Step Number, Elapsed time

Elem#	Pnt#	Velocity X	Velocity Y	Gradient X	Gradient Y
1	1	-1.614299E-005	-9.336153E-006	-5.696136E-003	-3.294552E-002
1	2	-1.614152E-005	-9.365695E-006	-5.697285E-003	-3.304704E-002
1	3	-1.630649E-005	-9.364449E-006	-5.753417E-003	-3.304711E-002
1	4	-1.630736E-005	-9.336982E-006	-5.753961E-003	-3.294270E-002
1	5	-1.613987E-005	-9.350832E-006	-5.694966E-003	-3.299547E-002
1	6	-1.622303E-005	-9.364294E-006	-5.724539E-003	-3.304700E-002
1	7	-1.630927E-005	-9.350832E-006	-5.754643E-003	-3.299547E-002
1	8	-1.622206E-005	-9.335808E-006	-5.724951E-003	-3.294752E-002
1	9	-1.622347E-005	-9.350832E-006	-5.723791E-003	-3.299547E-002
2	1	-1.693708E-005	-6.658551E-005	-5.977799E-003	-2.346764E-001
2	2	-1.693916E-005	-6.659623E-005	-5.977887E-003	-2.350021E-001
2	3	-1.746241E-005	-6.659645E-005	-6.162753E-003	-2.349989E-001
2	4	-1.746342E-005	-6.658561E-005	-6.162552E-003	-2.346782E-001
2	5	-1.693756E-005	-6.655140E-005	-5.976577E-003	-2.348417E-001
2	6	-1.720183E-005	-6.659667E-005	-6.070309E-003	-2.350036E-001
2	7	-1.746896E-005	-6.655108E-005	-6.162291E-003	-2.348489E-001
2	8	-1.720183E-005	-6.658667E-005	-6.070309E-003	-2.346811E-001
2	9	-1.720183E-005	-6.655142E-005	-6.070309E-003	-2.348365E-001
3	1	-1.658902E-005	-4.703361E-005	-5.826172E-003	-1.659666E-001
3	2	-1.651332E-005	-4.708704E-005	-5.826827E-003	-1.661565E-001
3	3	-1.682003E-005	-4.708617E-005	-5.935058E-003	-1.661547E-001
3	4	-1.681907E-005	-4.703244E-005	-5.935050E-003	-1.659671E-001
3	5	-1.650960E-005	-4.706029E-005	-5.824950E-003	-1.660585E-001
3	6	-1.666424E-005	-4.708596E-005	-5.879931E-003	-1.661556E-001
3	7	-1.681536E-005	-4.705947E-005	-5.934180E-003	-1.660594E-001
3	8	-1.666424E-005	-4.703407E-005	-5.879931E-003	-1.659661E-001
3	9	-1.666424E-005	-4.705982E-005	-5.879931E-003	-1.660590E-001
4	1	-1.612518E-005	-2.804694E-005	-5.690015E-003	-9.897086E-002
4	2	-1.612589E-005	-2.809863E-005	-5.691350E-003	-9.915288E-002
4	3	-1.641965E-005	-2.809910E-005	-5.793801E-003	-9.915458E-002
4	4	-1.642200E-005	-2.804690E-005	-5.795179E-003	-9.897005E-002
4	5	-1.612561E-005	-2.807311E-005	-5.690085E-003	-9.906276E-002
4	6	-1.627111E-005	-2.809875E-005	-5.742553E-003	-9.915469E-002
4	7	-1.642412E-005	-2.807239E-005	-5.794380E-003	-9.906027E-002
4	8	-1.627198E-005	-2.804756E-005	-5.742439E-003	-9.897307E-002
4	9	-1.627376E-005	-2.807310E-005	-5.742775E-003	-9.906175E-002
5	1	-1.987576E-005	-1.309647E-004	-7.815011E-003	-4.621366E-001
5	2	-1.987506E-005	-1.312792E-004	-7.812144E-003	-4.632466E-001
5	3	-2.168762E-005	-1.312797E-004	-7.651991E-003	-4.632455E-001
5	4	-2.169103E-005	-1.309651E-004	-7.653706E-003	-4.621366E-001
5	5	-1.987750E-005	-1.311226E-004	-7.814221E-003	-4.626907E-001
5	6	-2.078256E-005	-1.312796E-004	-7.333366E-003	-4.632449E-001
5	7	-2.168598E-005	-1.311226E-004	-7.653422E-003	-4.626907E-001
5	8	-2.078458E-005	-1.309654E-004	-7.334600E-003	-4.621377E-001
5	9	-2.078524E-005	-1.311226E-004	-7.333983E-003	-4.626907E-001
6	1	-1.859239E-005	-1.080667E-004	-6.558476E-003	-3.813360E-001
6	2	-1.858914E-005	-1.082686E-004	-6.559688E-003	-3.820476E-001
6	3	-1.974572E-005	-1.082679E-004	-6.967534E-003	-3.820446E-001
6	4	-1.974476E-005	-1.080676E-004	-6.967431E-003	-3.813363E-001
6	5	-1.858636E-005	-1.081683E-004	-6.559173E-003	-3.816926E-001
6	6	-1.916429E-005	-1.082678E-004	-6.762713E-003	-3.820444E-001
6	7	-1.974350E-005	-1.081683E-004	-6.966808E-003	-3.816926E-001

6	8	-1.916508E-005	-1.080669E-004	-6.763539E-003	-3.813390E-001
6	9	-1.916640E-005	-1.081683E-004	-6.762724E-003	-3.816926E-001
7	1	-1.764037E-005	-8.675105E-005	-6.225194E-003	-3.061171E-001
7	2	-1.763796E-005	-8.686692E-005	-6.224292E-003	-3.065301E-001
7	3	-1.832267E-005	-8.686780E-005	-6.463964E-003	-3.065293E-001
7	4	-1.832072E-005	-8.675030E-005	-6.463838E-003	-3.061136E-001
7	5	-1.763940E-005	-8.680797E-005	-6.224624E-003	-3.063222E-001
7	6	-1.797948E-005	-8.686781E-005	-6.345016E-003	-3.065296E-001
7	7	-1.831754E-005	-8.680822E-005	-6.464267E-003	-3.063230E-001
7	8	-1.797948E-005	-8.674964E-005	-6.345016E-003	-3.061122E-001
7	9	-1.797948E-005	-8.680862E-005	-6.345016E-003	-3.063222E-001
8	1	-3.368459E-005	-2.256344E-004	-1.188551E-002	-7.961971E-001
8	2	-3.370705E-005	-2.082634E-004	-1.189413E-002	-7.348998E-001
8	3	+6.644015E-005	-2.082633E-004	+2.344392E-002	-7.348989E-001
8	4	+6.664392E-005	-2.256337E-004	+2.351706E-002	-7.961965E-001
8	5	-3.368920E-005	-2.169410E-004	-1.188868E-002	-7.655207E-001
8	6	+1.636497E-005	-2.082636E-004	+5.774452E-003	-7.348992E-001
8	7	+6.654068E-005	-2.169410E-004	+2.348011E-002	-7.655203E-001
8	8	+1.647894E-005	-2.256333E-004	+5.814950E-003	-7.961968E-001
8	9	+1.642233E-005	-2.169413E-004	+5.794577E-003	-7.655195E-001
9	1	-2.589411E-005	-1.848631E-004	-9.138698E-003	-6.523256E-001
9	2	-2.589416E-005	-1.882528E-004	-9.138910E-003	-6.642802E-001
9	3	-4.543580E-005	-1.882527E-004	-1.603087E-002	-6.642876E-001
9	4	-4.543328E-005	-1.848633E-004	-1.603229E-002	-6.523287E-001
9	5	-2.588940E-005	-1.865579E-004	-9.137066E-003	-6.583099E-001
9	6	-3.566609E-005	-1.882534E-004	-1.258522E-002	-6.642916E-001
9	7	-4.543640E-005	-1.865575E-004	-1.603089E-002	-6.583098E-001
9	8	-3.566609E-005	-1.848635E-004	-1.258522E-002	-6.523253E-001
9	9	-3.566609E-005	-1.865587E-004	-1.258522E-002	-6.583051E-001
10	1	-2.178741E-005	-1.560043E-004	-7.689610E-003	-5.504905E-001
10	2	-2.178492E-005	-1.561965E-004	-7.689487E-003	-5.511703E-001
10	3	-2.289016E-005	-1.561967E-004	-8.078568E-003	-5.511695E-001
10	4	-2.289359E-005	-1.560047E-004	-8.078508E-003	-5.504935E-001
10	5	-2.178285E-005	-1.561006E-004	-7.687431E-003	-5.508348E-001
10	6	-2.233765E-005	-1.561973E-004	-7.883122E-003	-5.511712E-001
10	7	-2.289256E-005	-1.561004E-004	-8.077759E-003	-5.508327E-001
10	8	-2.233929E-005	-1.560045E-004	-7.883587E-003	-5.504931E-001
10	9	-2.234003E-005	-1.561007E-004	-7.883151E-003	-5.508309E-001
11	1	-2.467959E-002	-2.190851E-002	-8.708770E-002	-7.730882E-001
11	2	-2.610404E-002	-2.910988E-002	-8.708722E-002	-9.711781E-001
11	3	-5.703147E-002	-2.752228E-002	-2.012472E-001	-9.711774E-001
11	4	-5.703131E-002	-2.190845E-002	-2.012466E-001	-7.730883E-001
11	5	-2.467948E-002	-2.471535E-002	-8.708835E-002	-8.721340E-001
11	6	-4.216396E-002	-2.840372E-002	-1.441671E-001	-9.711788E-001
11	7	-5.703139E-002	-2.471535E-002	-2.012469E-001	-8.721340E-001
11	8	-4.085570E-002	-2.190839E-002	-1.441671E-001	-7.730843E-001
11	9	-4.085570E-002	-2.471535E-002	-1.441671E-001	-8.721340E-001
12	1	-8.656429E-004	-1.789773E-004	-3.054588E-001	-6.315596E-001
12	2	-8.660114E-004	-7.812887E-005	-3.058723E-001	-2.756940E-001
12	3	-2.844564E-004	-7.812855E-005	-1.083750E-001	-2.756933E-001
12	4	-2.843111E-002	-1.789767E-002	-1.083249E-001	-6.315597E-001
12	5	-8.662242E-004	-1.285967E-004	-3.056656E-001	-4.537827E-001
12	6	-5.756346E-004	-7.812932E-005	-2.031247E-001	-2.756940E-001
12	7	-2.450358E-002	-1.188052E-002	-1.083500E-001	-4.537827E-001
12	8	-5.749760E-004	-1.789764E-004	-2.028926E-001	-6.315539E-001
12	9	-5.753840E-004	-1.285967E-004	-2.030077E-001	-4.537827E-001
13	1	-3.472496E-005	-2.433722E-004	-1.225194E-002	-8.587895E-001
13	2	-3.290468E-005	-3.819265E-004	-1.161168E-002	-1.347706E+000

13	5	-3.301479E-005	-3.126492E-004	-1.193229E-002	-1.103248E+000
13	6	-4.321737E-004	-3.819272E-004	-1.525015E-001	-1.347713E+000
13	7	-8.323062E-004	-3.126587E-004	-2.936965E-001	-1.103279E+000
13	8	-4.339888E-004	-2.433795E-004	-1.531420E-001	-8.588145E-001
13	9	-4.330821E-004	-3.126535E-004	-1.528218E-001	-1.103263E+000
14	1	-1.104128E-001	-2.352340E-002	-3.896151E-001	-8.300722E-001
14	2	-1.104074E-001	-2.772841E-002	-3.895939E-001	-9.784529E-001
14	3	-1.346427E-001	-2.772840E-002	-4.751155E-001	-9.784527E-001
14	4	-1.346920E-001	-2.352334E-002	-4.752887E-001	-8.300720E-001
14	5	-1.104099E-001	-2.562783E-002	-3.896041E-001	-9.043289E-001
14	6	-1.225252E-001	-2.772841E-002	-4.323552E-001	-9.784528E-001
14	7	-1.346678E-001	-2.562772E-002	-4.752025E-001	-9.043282E-001
14	8	-1.225525E-001	-2.352340E-002	-4.324520E-001	-8.300721E-001
14	9	-1.225388E-001	-2.562777E-002	-4.324043E-001	-9.043280E-001
15	1	-8.537477E-002	-2.460669E-002	-3.012626E-001	-8.682989E-001
15	2	-8.537462E-002	-2.786491E-002	-3.012622E-001	-9.832706E-001
15	3	-1.041491E-001	-2.786501E-002	-3.675114E-001	-9.832723E-001
15	4	-1.041491E-001	-2.460675E-002	-3.675113E-001	-8.682989E-001
15	5	-8.537521E-002	-2.623579E-002	-3.012633E-001	-9.257859E-001
15	6	-9.476203E-002	-2.786495E-002	-3.343870E-001	-9.832704E-001
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16	1	-6.409428E-002	-2.511992E-002	-2.261698E-001	-8.864092E-001
16	2	-6.409417E-002	-2.793009E-002	-2.261701E-001	-9.855728E-001
16	3	-8.028737E-002	-2.793015E-002	-2.833111E-001	-9.855748E-001
16	4	-8.028730E-002	-2.512030E-002	-2.833109E-001	-8.864205E-001
16	5	-6.409433E-002	-2.652501E-002	-2.261705E-001	-9.359910E-001
16	6	-7.219147E-002	-2.793018E-002	-2.547419E-001	-9.855732E-001
16	7	-8.028781E-002	-2.652527E-002	-2.833110E-001	-9.359984E-001
16	8	-7.219147E-002	-2.512011E-002	-2.547419E-001	-8.864167E-001
16	9	-7.219147E-002	-2.652514E-002	-2.547419E-001	-9.359952E-001
17	1	-2.153373E-001	+1.279442E-002	-7.598608E-001	+4.514793E-001
17	2	-2.153372E-001	+4.881491E-002	-7.598605E-001	+1.722533E+000
17	3	-7.808252E-003	+4.881484E-002	-2.755224E-002	+1.722533E+000
17	4	-7.808236E-003	+1.279447E-002	-2.755215E-002	+4.514809E-001
17	5	-2.153368E-001	+3.080467E-002	-7.598597E-001	+1.087006E+000
17	6	-1.115725E-001	+4.881487E-002	-3.937064E-001	+1.722534E+000
17	7	-7.807775E-003	+3.080467E-002	-2.755125E-002	+1.087006E+000
17	8	-1.115725E-001	+1.279442E-002	-3.937064E-001	+4.514773E-001
17	9	-1.115725E-001	+3.080467E-002	-3.937064E-001	+1.087006E+000
18	1	-1.504557E-001	-1.183680E-002	-5.309131E-001	-4.176850E-001
18	2	-1.502885E-001	-2.623918E-002	-5.303231E-001	-9.259039E-001
18	3	-2.334355E-001	-2.623947E-002	-8.237255E-001	-9.259138E-001
18	4	-2.334569E-001	-1.183846E-002	-8.237999E-001	-4.177449E-001
18	5	-1.503720E-001	-1.903166E-002	-5.306198E-001	-6.715699E-001
18	6	-1.918648E-001	-2.623930E-002	-6.770316E-001	-9.259091E-001
18	7	-2.334456E-001	-1.903254E-002	-8.237618E-001	-6.716041E-001
18	8	-1.919586E-001	-1.183766E-002	-6.773637E-001	-4.177168E-001
18	9	-1.919113E-001	-1.903215E-002	-6.771976E-001	-6.715866E-001
19	1	-4.839906E-005	-9.312183E-006	-1.707731E-002	-3.285522E-002
19	2	-4.839365E-005	-9.329704E-006	-1.707685E-002	-3.291975E-002
19	3	-4.850385E-005	-9.328907E-006	-1.711508E-002	-3.292269E-002
19	4	-4.850568E-005	-9.310320E-006	-1.711685E-002	-3.285522E-002
19	5	-4.839298E-005	-9.320371E-006	-1.707537E-002	-3.288921E-002
19	6	-4.844736E-005	-9.329924E-006	-1.709625E-002	-3.292447E-002
19	7	-4.850201E-005	-9.319987E-006	-1.711510E-002	-3.288813E-002
19	8	-4.844724E-005	-9.310320E-006	-1.709579E-002	-3.285522E-002
19	9	-4.844701E-005	-9.320007E-006	-1.709478E-002	-3.288771E-002
20	1	-4.860523E-005	-2.791936E-005	-1.715895E-002	-9.851719E-002

20	2	-4.860285E-005	-2.802495E-005	-1.715266E-002	-9.889083E-002
20	3	-4.921803E-005	-2.802524E-005	-1.736826E-002	-9.889331E-002
20	4	-4.922250E-005	-2.791759E-005	-1.737009E-002	-9.851987E-002
20	5	-4.860453E-005	-2.797246E-005	-1.715131E-002	-9.870744E-002
20	6	-4.891707E-005	-2.802508E-005	-1.726038E-002	-9.889382E-002
20	7	-4.921489E-005	-2.797131E-005	-1.736849E-002	-9.870581E-002
20	8	-4.891285E-005	-2.791877E-005	-1.726039E-002	-9.851782E-002
20	9	-4.891552E-005	-2.797183E-005	-1.726045E-002	-9.870316E-002
21	1	-4.925006E-005	-4.677855E-005	-1.737851E-002	-1.650696E-001
21	2	-4.924489E-005	-4.699470E-005	-1.737578E-002	-1.658269E-001
21	3	-5.048512E-005	-4.699392E-005	-1.781536E-002	-1.658269E-001
21	4	-5.049063E-005	-4.677995E-005	-1.781642E-002	-1.650692E-001
21	5	-4.924887E-005	-4.688626E-005	-1.737802E-002	-1.654502E-001
21	6	-4.986467E-005	-4.699385E-005	-1.759580E-002	-1.658269E-001
21	7	-5.048835E-005	-4.688626E-005	-1.781684E-002	-1.654502E-001
21	8	-4.986691E-005	-4.677913E-005	-1.759567E-002	-1.650682E-001
21	9	-4.986510E-005	-4.688626E-005	-1.759633E-002	-1.654502E-001
22	1	-5.067521E-005	-6.613676E-005	-1.788029E-002	-2.333797E-001
22	2	-5.067097E-005	-6.644840E-005	-1.788038E-002	-2.344763E-001
22	3	-5.245318E-005	-6.644681E-005	-1.851091E-002	-2.344712E-001
22	4	-5.246248E-005	-6.613608E-005	-1.851285E-002	-2.333754E-001
22	5	-5.066855E-005	-6.629273E-005	-1.787922E-002	-2.339263E-001
22	6	-5.156589E-005	-6.644714E-005	-1.819474E-002	-2.344706E-001
22	7	-5.245737E-005	-6.629287E-005	-1.850974E-002	-2.339248E-001
22	8	-5.156458E-005	-6.613688E-005	-1.819686E-002	-2.333764E-001
22	9	-5.156430E-005	-6.629252E-005	-1.819635E-002	-2.339267E-001
23	1	-5.276721E-005	-8.631276E-005	-1.861956E-002	-3.045694E-001
23	2	-5.276279E-005	-8.667958E-005	-1.861962E-002	-3.058657E-001
23	3	-5.488901E-005	-8.667955E-005	-1.936856E-002	-3.058662E-001
23	4	-5.488793E-005	-8.631258E-005	-1.936857E-002	-3.045676E-001
23	5	-5.276695E-005	-8.649562E-005	-1.861856E-002	-3.052181E-001
23	6	-5.382223E-005	-8.667933E-005	-1.899337E-002	-3.058662E-001
23	7	-5.488288E-005	-8.649602E-005	-1.936688E-002	-3.052171E-001
23	8	-5.382550E-005	-8.631174E-005	-1.899280E-002	-3.045696E-001
23	9	-5.382355E-005	-8.649582E-005	-1.899273E-002	-3.052172E-001
24	1	-5.566700E-005	-1.073936E-004	-1.964298E-002	-3.789614E-001
24	2	-5.566655E-005	-1.079565E-004	-1.964346E-002	-3.809474E-001
24	3	-5.890702E-005	-1.079561E-004	-2.078572E-002	-3.809462E-001
24	4	-5.890664E-005	-1.073950E-004	-2.078521E-002	-3.789617E-001
24	5	-5.567097E-005	-1.076755E-004	-1.964382E-002	-3.799571E-001
24	6	-5.728394E-005	-1.079563E-004	-2.021409E-002	-3.809468E-001
24	7	-5.890828E-005	-1.076752E-004	-2.078605E-002	-3.799565E-001
24	8	-5.728394E-005	-1.073943E-004	-2.021409E-002	-3.789644E-001
24	9	-5.728394E-005	-1.076755E-004	-2.021409E-002	-3.799521E-001
25	1	-5.998013E-005	-1.300891E-004	-2.116513E-002	-4.590479E-001
25	2	-5.997776E-005	-1.300125E-004	-2.116607E-002	-4.616009E-001
25	3	-6.415580E-005	-1.300125E-004	-2.264039E-002	-4.616004E-001
25	4	-6.415969E-005	-1.300892E-004	-2.264806E-002	-4.590466E-001
25	5	-5.998365E-005	-1.304510E-004	-2.116674E-002	-4.603231E-001
25	6	-6.207040E-005	-1.300126E-004	-2.190349E-002	-4.616006E-001
25	7	-6.415961E-005	-1.304519E-004	-2.264080E-002	-4.603254E-001
25	8	-6.207040E-005	-1.300892E-004	-2.190349E-002	-4.590492E-001
25	9	-6.207040E-005	-1.304515E-004	-2.190349E-002	-4.603239E-001
26	1	-6.550197E-005	-1.549887E-004	-2.311322E-002	-5.468833E-001
26	2	-6.549874E-005	-1.558514E-004	-2.311343E-002	-5.499554E-001
26	3	-7.051157E-005	-1.558516E-004	-2.488208E-002	-5.499535E-001
26	4	-7.052783E-005	-1.549810E-004	-2.488708E-002	-5.468820E-001
26	5	-6.549985E-005	-1.554160E-004	-2.311295E-002	-5.484180E-001

13	3	-8.313924E-004	-3.819285E-004	-2.933741E-001	-1.347716E+000
13	4	-8.332081E-004	-2.433884E-004	-2.940149E-001	-8.588452E-001
26	6	-6.888674E-005	-1.558521E-004	-2.399710E-002	-5.499555E-001
26	7	-7.051941E-005	-1.554159E-004	-2.488416E-002	-5.484203E-001

26	8	-6.801313E-005	-1.549815E-004	-2.399935E-002	-5.468845E-001
26	9	-6.800928E-005	-1.554167E-004	-2.399755E-002	-5.484216E-001
27	1	-7.495446E-005	-1.788902E-004	-2.644849E-002	-6.312508E-001
27	2	-7.489462E-005	-1.836727E-004	-2.642911E-002	-6.481251E-001
27	3	-1.025199E-004	-1.836729E-004	-3.617715E-002	-6.481249E-001
27	4	-1.025294E-004	-1.788889E-004	-3.618039E-002	-6.312484E-001
27	5	-7.492708E-005	-1.812784E-004	-2.643812E-002	-6.396804E-001
27	6	-8.871189E-005	-1.836723E-004	-3.130268E-002	-6.481288E-001
27	7	-1.025253E-004	-1.812784E-004	-3.617702E-002	-6.396804E-001
27	8	-8.874336E-005	-1.788898E-004	-3.131465E-002	-6.312503E-001
27	9	-8.872617E-005	-1.812784E-004	-3.130976E-002	-6.396804E-001
28	1	-1.023521E-004	-2.338859E-004	-3.611687E-002	-8.253160E-001
28	2	-1.023575E-004	-2.288930E-004	-3.611735E-002	-8.076958E-001
28	3	-7.357260E-005	-2.288928E-004	-2.596140E-002	-8.076960E-001
28	4	-7.357300E-005	-2.338862E-004	-2.596181E-002	-8.253157E-001
28	5	-1.023520E-004	-2.313981E-004	-3.611692E-002	-8.165084E-001
28	6	-8.796238E-005	-2.288935E-004	-3.103914E-002	-8.076941E-001
28	7	-7.357703E-005	-2.313898E-004	-2.596311E-002	-8.165067E-001
28	8	-8.796238E-005	-2.338872E-004	-3.103914E-002	-8.253177E-001
28	9	-8.796238E-005	-2.313899E-004	-3.103914E-002	-8.165041E-001
29	1	-1.111280E-004	-1.661955E-004	-3.921187E-002	-5.864565E-001
29	2	-1.111250E-004	-2.159732E-004	-3.921240E-002	-7.621045E-001
29	3	-3.979885E-004	-2.159802E-004	-1.404368E-001	-7.621273E-001
29	4	-1.645674E-003	-6.872423E-004	-1.404379E-001	-5.864761E-001
29	5	-1.111286E-004	-1.910844E-004	-3.921154E-002	-6.742812E-001
29	6	-2.545555E-004	-2.159757E-004	-8.982488E-002	-7.621173E-001
29	7	-3.979927E-004	-1.910911E-004	-1.404379E-001	-6.743036E-001
29	8	-2.545555E-004	-1.661986E-004	-8.982488E-002	-5.864701E-001
29	9	-2.545555E-004	-1.910879E-004	-8.982488E-002	-6.742905E-001
30	1	-5.309619E-002	-1.976142E-002	-1.870444E-001	-6.973192E-001
30	2	-5.299302E-002	-2.092248E-002	-1.869952E-001	-7.382926E-001
30	3	-5.969705E-002	-2.092243E-002	-2.106533E-001	-7.382912E-001
30	4	-5.969882E-002	-1.976129E-002	-2.106597E-001	-6.973209E-001
30	5	-5.299321E-002	-2.034139E-002	-1.870195E-001	-7.177881E-001
30	6	-5.634495E-002	-2.092251E-002	-1.988248E-001	-7.382922E-001
30	7	-5.969771E-002	-2.034139E-002	-2.106566E-001	-7.177881E-001
30	8	-5.635230E-002	-1.976136E-002	-1.988503E-001	-6.973210E-001
30	9	-5.634853E-002	-2.034139E-002	-1.988376E-001	-7.177881E-001
31	1	-4.488337E-002	-1.812040E-002	-1.583795E-001	-6.394184E-001
31	2	-4.488167E-004	-1.920465E-004	-1.583755E-001	-6.776744E-001
31	3	-5.113132E-002	-1.920460E-002	-1.804253E-001	-6.776780E-001
31	4	-5.114298E-002	-1.812052E-002	-1.804691E-001	-6.394223E-001
31	5	-4.488265E-004	-1.866300E-004	-1.583783E-001	-6.585618E-001
31	6	-7.679097E-004	-3.071975E-004	-1.694804E-001	-6.776762E-001
31	7	-5.113634E-002	-1.866311E-002	-1.804480E-001	-6.585674E-001
31	8	-4.801347E-002	-1.812043E-002	-1.694258E-001	-6.394175E-001
31	9	-4.800985E-002	-1.866306E-002	-1.694135E-001	-6.585652E-001
32	1	-6.313851E-002	-2.134112E-002	-2.227970E-001	-7.530647E-001
32	2	-6.313833E-002	-2.428300E-002	-2.227973E-001	-8.568760E-001
32	3	-8.809058E-002	-2.428346E-002	-2.826169E-001	-8.568926E-001
32	4	-8.809098E-002	-2.134149E-002	-2.826165E-001	-7.530773E-001
32	5	-6.313839E-002	-2.281207E-002	-2.227977E-001	-8.049725E-001
32	6	-7.161460E-002	-2.428318E-002	-2.527071E-001	-8.568822E-001
32	7	-8.809055E-002	-2.281243E-002	-2.826167E-001	-8.049842E-001
32	8	-7.161460E-002	-2.134134E-002	-2.527071E-001	-7.530720E-001
32	9	-7.161460E-002	-2.281225E-002	-2.527071E-001	-8.049778E-001
33	1	-1.073346E-001	-1.772837E-002	-3.787521E-001	-6.255839E-001
33	2	-1.073344E-001	-2.225223E-002	-3.787518E-001	-7.852148E-001
33	3	-1.333977E-001	-2.225215E-002	-4.707223E-001	-7.852141E-001
33	4	-1.333977E-001	-1.772837E-002	-4.707232E-001	-6.255801E-001

33	5	-1.073345E-001	-1.999028E-002	-3.787520E-001	-7.054001E-001
33	6	-1.203664E-001	-2.225219E-002	-4.247380E-001	-7.852134E-001
33	7	-1.333977E-001	-1.999028E-002	-4.707213E-001	-7.054001E-001
33	8	-1.203664E-001	-1.772843E-002	-4.247380E-001	-6.255839E-001
33	9	-1.203664E-001	-1.999028E-002	-4.247380E-001	-7.054001E-001
34	1	-0.492191E-002	-2.090084E-002	-2.996663E-001	-7.375298E-001
34	2	-0.492178E-002	-2.372223E-002	-2.996659E-001	-8.370871E-001
34	3	-1.011775E-001	-2.372215E-002	-3.570256E-001	-8.370863E-001
34	4	-1.011776E-001	-2.090114E-002	-3.570258E-001	-7.375405E-001
34	5	-0.492234E-002	-2.231148E-002	-2.996670E-001	-7.873073E-001
34	6	-9.305029E-002	-2.372219E-002	-3.283403E-001	-8.370888E-001
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34	9	-9.305029E-002	-2.231161E-002	-3.283403E-001	-7.873117E-001
35	1	-1.382005E-001	-8.368216E-003	-4.876690E-001	-2.952880E-001
35	2	-1.301999E-001	-9.570349E-003	-4.876690E-001	-3.377079E-001
35	3	-1.451416E-001	-9.570449E-003	-5.121630E-001	-3.377113E-001
35	4	-1.451420E-001	-8.368356E-003	-5.121629E-001	-2.952954E-001
35	5	-1.382005E-001	-8.969221E-003	-4.876689E-001	-3.164985E-001
35	6	-1.416789E-001	-9.570425E-003	-4.999155E-001	-3.377106E-001
35	7	-1.451420E-001	-8.969444E-003	-5.121629E-001	-3.165047E-001
35	8	-1.416789E-001	-8.368257E-003	-4.999155E-001	-2.952917E-001
35	9	-1.416789E-001	-8.969348E-003	-4.999155E-001	-3.165011E-001
36	1	-1.409550E-001	+4.528470E-004	-4.973904E-001	+1.597988E-002
36	2	-1.409554E-001	+6.651674E-003	-4.973904E-001	+2.347172E-001
36	3	-1.052457E-001	+6.651727E-003	-3.713807E-001	+2.347197E-001
36	4	-1.052457E-001	+4.536039E-004	-3.713807E-001	+1.600485E-002
36	5	-1.409549E-001	+3.552277E-003	-4.973893E-001	+1.253496E-001
36	6	-1.230998E-001	+6.651727E-003	-4.343826E-001	+2.347186E-001
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36	9	-1.230998E-001	+3.552416E-003	-4.343826E-001	+1.253548E-001
37	1	-8.042275E-005	-9.247828E-006	-2.838046E-002	-3.263353E-002
37	2	-8.042518E-005	-9.300296E-006	-2.837873E-002	-3.281887E-002
37	3	-8.073317E-005	-9.300867E-006	-2.848936E-002	-3.281923E-002
37	4	-8.073225E-005	-9.248691E-006	-2.848831E-002	-3.263204E-002
37	5	-8.042793E-005	-9.274100E-006	-2.838010E-002	-3.272318E-002
37	6	-8.057711E-005	-9.300931E-006	-2.843421E-002	-3.282824E-002
37	7	-8.072911E-005	-9.274395E-006	-2.848643E-002	-3.272461E-002
37	8	-8.057962E-005	-9.248553E-006	-2.843421E-002	-3.263248E-002
37	9	-8.057931E-005	-9.274076E-006	-2.843306E-002	-3.272831E-002
38	1	-8.069702E-005	-2.768057E-005	-2.847546E-002	-9.768236E-002
38	2	-8.069345E-005	-2.787522E-005	-2.847556E-002	-9.836280E-002
38	3	-8.181372E-005	-2.787553E-005	-2.887041E-002	-9.836377E-002
38	4	-8.181175E-005	-2.768123E-005	-2.887091E-002	-9.767850E-002
38	5	-8.069524E-005	-2.777837E-005	-2.847444E-002	-9.802014E-002
38	6	-8.125197E-005	-2.787549E-005	-2.867194E-002	-9.836520E-002
38	7	-8.181273E-005	-2.777824E-005	-2.886911E-002	-9.802207E-002
38	8	-8.125957E-005	-2.768195E-005	-2.867380E-002	-9.768163E-002
38	9	-8.125532E-005	-2.777813E-005	-2.867307E-002	-9.802301E-002
39	1	-8.200046E-005	-4.639056E-005	-2.893583E-002	-1.637000E-001
39	2	-8.199372E-005	-4.670247E-005	-2.893322E-002	-1.647962E-001
39	3	-8.379524E-005	-4.670144E-005	-2.956678E-002	-1.647974E-001
39	4	-8.379284E-005	-4.638969E-005	-2.956790E-002	-1.637008E-001
39	5	-8.199766E-005	-4.654602E-005	-2.893468E-002	-1.642488E-001
39	6	-8.289210E-005	-4.670036E-005	-2.925043E-002	-1.647959E-001
39	7	-8.379826E-005	-4.654587E-005	-2.956902E-002	-1.642476E-001
39	8	-8.289207E-005	-4.639012E-005	-2.925094E-002	-1.636985E-001
39	9	-8.289191E-005	-4.654612E-005	-2.925035E-002	-1.642486E-001
40	1	-8.441501E-005	-6.559556E-005	-2.978810E-002	-2.314626E-001

40	2	-8.441631E-005	-6.603025E-005	-2.978714E-002	-2.330007E-001
40	3	-8.692578E-005	-6.602969E-005	-3.067341E-002	-2.329993E-001
40	4	-8.692016E-005	-6.559545E-005	-3.067316E-002	-2.314658E-001
40	5	-8.441641E-005	-6.581294E-005	-2.978781E-002	-2.322325E-001
40	6	-8.567052E-005	-6.602937E-005	-3.023116E-002	-2.329985E-001
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41	1	-8.782400E-005	-8.552097E-005	-3.099261E-002	-3.017770E-001
41	2	-8.782573E-005	-8.616524E-005	-3.099182E-002	-3.040549E-001
41	3	-9.154320E-005	-8.616559E-005	-3.230186E-002	-3.040516E-001
41	4	-9.154662E-005	-8.552087E-005	-3.230514E-002	-3.017791E-001
41	5	-8.782498E-005	-8.584397E-005	-3.099216E-002	-3.029174E-001
41	6	-8.968628E-005	-8.616546E-005	-3.164828E-002	-3.040522E-001
41	7	-9.154453E-005	-8.584335E-005	-3.230368E-002	-3.029189E-001
41	8	-8.968748E-005	-8.552185E-005	-3.164879E-002	-3.017761E-001
41	9	-8.968787E-005	-8.584395E-005	-3.164829E-002	-3.029178E-001
42	1	-9.237631E-005	-1.065524E-004	-3.259680E-002	-3.759897E-001
42	2	-9.236535E-005	-1.072163E-004	-3.259301E-002	-3.783341E-001
42	3	-9.619325E-005	-1.072162E-004	-3.394426E-002	-3.783340E-001
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42	5	-9.236875E-005	-1.068845E-004	-3.259554E-002	-3.771600E-001
42	6	-9.427713E-005	-1.072160E-004	-3.326860E-002	-3.783332E-001
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43	1	-9.845947E-005	-1.276531E-004	-3.474384E-002	-4.504539E-001
43	2	-9.846126E-005	-1.296877E-004	-3.474286E-002	-4.576304E-001
43	3	-1.101853E-004	-1.296881E-004	-3.888255E-002	-4.576331E-001
43	4	-1.101848E-004	-1.276539E-004	-3.888224E-002	-4.504522E-001
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45	1	-1.137366E-004	-1.728058E-004	-4.013431E-002	-6.097832E-001
45	2	-1.137226E-004	-1.775124E-004	-4.012972E-002	-6.263895E-001
45	3	-1.408562E-004	-1.775123E-004	-4.970293E-002	-6.263883E-001
45	4	-1.409109E-004	-1.728060E-004	-4.972248E-002	-6.097833E-001
45	5	-1.137326E-004	-1.751617E-004	-4.013082E-002	-6.180939E-001
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45	8	-1.273241E-004	-1.728066E-004	-4.492812E-002	-6.097831E-001
45	9	-1.273070E-004	-1.751616E-004	-4.492334E-002	-6.180938E-001
46	1	-1.712897E-004	-1.980622E-004	-6.044263E-002	-6.989045E-001
46	2	-1.709186E-004	-2.299634E-004	-6.031321E-002	-8.114731E-001
46	3	-3.551452E-004	-2.299680E-004	-1.253196E-001	-8.114893E-001
46	4	-3.551914E-004	-1.980655E-004	-1.253366E-001	-6.989129E-001
46	5	-1.711032E-004	-2.139986E-004	-6.037735E-002	-7.551369E-001
46	6	-2.630287E-004	-2.299654E-004	-9.281559E-002	-8.114798E-001
46	7	-3.551649E-004	-2.140017E-004	-1.253269E-001	-7.551537E-001

46	8	-2.632378E-004	-1.980644E-004	-9.288917E-002	-6.989099E-001
46	9	-2.631354E-004	-2.140004E-004	-9.285225E-002	-7.551457E-001
47	1	-3.888813E-004	-1.505738E-004	-1.369426E-001	-5.313287E-001
47	2	-3.888859E-004	-1.578941E-004	-1.369431E-001	-5.571627E-001
47	3	-4.302749E-002	-1.578953E-002	-1.518302E-001	-5.571641E-001
47	4	-4.302701E-002	-1.505745E-002	-1.518312E-001	-5.313326E-001
47	5	-3.888812E-004	-1.542342E-004	-1.369423E-001	-5.442443E-001
47	6	-4.091788E-004	-1.578947E-004	-1.443871E-001	-5.571649E-001
47	7	-4.302749E-002	-1.542346E-002	-1.518312E-001	-5.442497E-001
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48	3	-5.232885E-002	-1.777103E-002	-1.846526E-001	-6.270892E-001
48	4	-5.232843E-002	-1.645509E-002	-1.846520E-001	-5.806493E-001
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49	4	-6.351262E-002	-1.784752E-002	-2.241174E-001	-6.297851E-001
49	5	-5.471348E-002	-1.860923E-002	-1.930663E-001	-6.566651E-001
49	6	-5.911282E-002	-1.937107E-002	-2.085915E-001	-6.835467E-001
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50	1	-6.661168E-002	-1.842729E-002	-2.350530E-001	-6.502473E-001
50	2	-6.661192E-002	-2.059736E-002	-2.350540E-001	-7.268227E-001
50	3	-7.911612E-002	-2.059765E-002	-2.791790E-001	-7.268313E-001
50	4	-7.911600E-002	-1.842765E-002	-2.791785E-001	-6.502565E-001
50	5	-6.661166E-002	-1.951238E-002	-2.350536E-001	-6.885329E-001
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50	8	-7.286407E-002	-1.842744E-002	-2.571168E-001	-6.502510E-001
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51	1	-8.311579E-002	-1.751159E-002	-2.932903E-001	-6.179326E-001
51	2	-8.311558E-002	-2.011198E-002	-2.932907E-001	-7.096930E-001
51	3	-9.809909E-002	-2.011237E-002	-3.461629E-001	-7.097041E-001
51	4	-9.809922E-002	-1.751211E-002	-3.461624E-001	-6.179491E-001
51	5	-8.311619E-002	-1.881185E-002	-2.932920E-001	-6.638142E-001
51	6	-9.060737E-002	-2.011212E-002	-3.197279E-001	-7.096984E-001
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51	8	-9.060737E-002	-1.751182E-002	-3.197279E-001	-6.179399E-001
51	9	-9.060737E-002	-1.881202E-002	-3.197279E-001	-6.638207E-001
52	1	-1.024979E-001	-1.403860E-002	-3.616846E-001	-4.953797E-001
52	2	-1.024977E-001	-1.668512E-002	-3.616850E-001	-5.887671E-001
52	3	-1.177463E-001	-1.668515E-002	-4.154917E-001	-5.887702E-001
52	4	-1.177459E-001	-1.403881E-002	-4.154918E-001	-4.953927E-001
52	5	-1.024978E-001	-1.536188E-002	-3.616844E-001	-5.420741E-001
52	6	-1.101224E-001	-1.668514E-002	-3.885893E-001	-5.887689E-001
52	7	-1.177459E-001	-1.536202E-002	-4.154893E-001	-5.420810E-001
52	8	-1.101224E-001	-1.403873E-002	-3.885893E-001	-4.953852E-001
52	9	-1.101224E-001	-1.536192E-002	-3.885893E-001	-5.420771E-001
53	1	-1.203568E-001	-7.658126E-003	-4.247034E-001	-2.702333E-001
53	2	-1.203568E-001	-8.124994E-003	-4.247035E-001	-2.867063E-001
53	3	-1.230522E-001	-8.125019E-003	-4.342145E-001	-2.867082E-001
53	4	-1.230527E-001	-7.658286E-003	-4.342146E-001	-2.702369E-001

53	5	-1.203568E-001	-7.891577E-003	-4.247034E-001	-2.784789E-001
53	6	-1.217045E-001	-8.125043E-003	-4.294587E-001	-2.867074E-001
53	7	-1.230522E-001	-7.891552E-003	-4.342146E-001	-2.784725E-001
53	8	-1.217045E-001	-7.658237E-003	-4.294587E-001	-2.702352E-001
53	9	-1.217045E-001	-7.891564E-003	-4.294587E-001	-2.784707E-001
54	1	-1.224581E-001	-1.796432E-003	-4.321188E-001	-6.339339E-002
54	2	-1.224581E-001	-6.198054E-004	-4.321189E-001	-2.187195E-002
54	3	-1.156794E-001	-6.197682E-004	-4.081983E-001	-2.186816E-002
54	4	-1.156789E-001	-1.796274E-003	-4.081984E-001	-6.338426E-002
54	5	-1.224576E-001	-1.208140E-003	-4.321178E-001	-4.263227E-002
54	6	-1.190684E-001	-6.198166E-004	-4.201582E-001	-2.187196E-002
54	7	-1.156789E-001	-1.208017E-003	-4.081974E-001	-4.262719E-002
54	8	-1.190684E-001	-1.796323E-003	-4.201582E-001	-6.338556E-002
54	9	-1.190684E-001	-1.208123E-003	-4.201582E-001	-4.262973E-002
55	1	-1.122208E-004	-9.180528E-006	-3.959850E-002	-3.239024E-002
55	2	-1.122170E-004	-9.233357E-006	-3.959879E-002	-3.257923E-002
55	3	-1.125256E-004	-9.232853E-006	-3.970812E-002	-3.257762E-002
55	4	-1.125256E-004	-9.179183E-006	-3.970662E-002	-3.239370E-002
55	5	-1.122191E-004	-9.206554E-006	-3.959957E-002	-3.248457E-002
55	6	-1.123725E-004	-9.232777E-006	-3.965259E-002	-3.258104E-002
55	7	-1.125243E-004	-9.206084E-006	-3.970797E-002	-3.248635E-002
55	8	-1.123727E-004	-9.180321E-006	-3.965301E-002	-3.239197E-002
55	9	-1.123724E-004	-9.206148E-006	-3.965240E-002	-3.248822E-002
56	1	-1.127409E-004	-2.742487E-005	-3.978094E-002	-9.677385E-002
56	2	-1.127365E-004	-2.762424E-005	-3.978215E-002	-9.748007E-002
56	3	-1.138892E-004	-2.762540E-005	-4.018645E-002	-9.747948E-002
56	4	-1.138840E-004	-2.742524E-005	-4.018613E-002	-9.677526E-002
56	5	-1.127367E-004	-2.752529E-005	-3.978262E-002	-9.712853E-002
56	6	-1.133114E-004	-2.762581E-005	-3.998395E-002	-9.748121E-002
56	7	-1.138866E-004	-2.752503E-005	-4.018724E-002	-9.712664E-002
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56	9	-1.133114E-004	-2.752499E-005	-3.998395E-002	-9.712723E-002
57	1	-1.144186E-004	-4.585372E-005	-4.037308E-002	-1.618053E-001
57	2	-1.144130E-004	-4.628346E-005	-4.037337E-002	-1.633207E-001
57	3	-1.168917E-004	-4.628423E-005	-4.124839E-002	-1.633211E-001
57	4	-1.168954E-004	-4.585313E-005	-4.125033E-002	-1.618040E-001
57	5	-1.144122E-004	-4.606912E-005	-4.037381E-002	-1.625624E-001
57	6	-1.156558E-004	-4.628322E-005	-4.081151E-002	-1.633221E-001
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58	1	-1.175604E-004	-6.478510E-005	-4.148403E-002	-2.286086E-001
58	2	-1.175497E-004	-6.543637E-005	-4.148113E-002	-2.309103E-001
58	3	-1.213258E-004	-6.543704E-005	-4.281126E-002	-2.309076E-001
58	4	-1.213258E-004	-6.478388E-005	-4.281265E-002	-2.286084E-001
58	5	-1.175524E-004	-6.511017E-005	-4.148108E-002	-2.297583E-001
58	6	-1.194413E-004	-6.543678E-005	-4.214675E-002	-2.309092E-001
58	7	-1.213184E-004	-6.511001E-005	-4.281124E-002	-2.297582E-001
58	8	-1.194434E-004	-6.478478E-005	-4.214858E-002	-2.286059E-001
58	9	-1.194414E-004	-6.511148E-005	-4.214729E-002	-2.297554E-001
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59	2	-1.225615E-004	-8.530865E-005	-4.324881E-002	-3.010314E-001
59	3	-1.272890E-004	-8.530997E-005	-4.491533E-002	-3.010315E-001
59	4	-1.272842E-004	-8.449882E-005	-4.491562E-002	-2.981406E-001
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60	2	-1.288860E-004	-1.062987E-004	-4.548101E-002	-3.750981E-001
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62	2	-1.491941E-004	-1.536709E-004	-5.264517E-002	-5.422603E-001
62	3	-2.106817E-004	-1.536718E-004	-7.434233E-002	-5.422624E-001
62	4	-2.106804E-004	-1.430045E-004	-7.434354E-002	-5.046216E-001
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63	1	-1.909002E-004	-2.113603E-004	-6.736328E-002	-7.458255E-001
63	2	-1.909001E-004	-1.771070E-004	-6.736239E-002	-6.249502E-001
63	3	+6.527667E-006	-1.771014E-004	+2.303601E-003	-6.249399E-001
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63	5	-1.909020E-004	-1.942325E-004	-6.736181E-002	-6.853923E-001
63	6	-9.218499E-005	-1.771037E-004	-3.252956E-002	-6.249456E-001
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64	1	-1.300212E-005	-1.276560E-004	-4.588034E-003	-4.504613E-001
64	2	-1.291866E-005	-1.850871E-004	-4.559847E-003	-6.531167E-001
64	3	-3.439690E-004	-1.850943E-004	-1.213786E-001	-6.531448E-001
64	4	-3.637583E-002	-1.347542E-002	-1.216137E-001	-4.505101E-001
64	5	-1.296892E-005	-1.563963E-004	-4.572701E-003	-5.518808E-001
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64	7	-3.443836E-004	-1.564078E-004	-1.214959E-001	-5.519200E-001
64	8	-1.788301E-004	-1.276641E-004	-6.310416E-002	-4.504838E-001
64	9	-1.786412E-004	-1.564027E-004	-6.303712E-002	-5.518989E-001
65	1	-4.029620E-002	-1.355993E-002	-1.421948E-001	-4.784891E-001
65	2	-4.028183E-004	-1.477383E-004	-1.421436E-001	-5.213228E-001
65	3	-4.729192E-002	-1.477391E-002	-1.668887E-001	-5.213310E-001
65	4	-4.729457E-002	-1.356007E-002	-1.668884E-001	-4.784961E-001
65	5	-4.028893E-002	-1.416635E-002	-1.421675E-001	-4.998865E-001
65	6	-4.378740E-002	-1.477398E-002	-1.545128E-001	-5.213269E-001
65	7	-4.729334E-002	-1.416648E-002	-1.668848E-001	-4.998927E-001
65	8	-4.379531E-002	-1.355997E-002	-1.545407E-001	-4.784936E-001
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66	1	-4.910231E-002	-1.518468E-002	-1.732672E-001	-5.358206E-001
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66	3	-5.452926E-002	-1.612655E-002	-1.924175E-001	-5.690599E-001
66	4	-5.452884E-002	-1.518487E-002	-1.924169E-001	-5.358301E-001
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66	6	-5.181571E-002	-1.612656E-002	-1.828434E-001	-5.690585E-001
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66	8	-5.181571E-002	-1.518481E-002	-1.828434E-001	-5.358273E-001
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67	1	-5.653283E-002	-1.597145E-002	-1.994877E-001	-5.635860E-001
67	2	-5.653896E-002	-1.741603E-002	-1.994796E-001	-6.145613E-001
67	3	-6.485853E-002	-1.741614E-002	-2.288643E-001	-6.145675E-001
67	4	-6.487443E-002	-1.597160E-002	-2.289242E-001	-5.635876E-001
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67	8	-6.070368E-002	-1.597149E-002	-2.142055E-001	-5.635856E-001
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69	1	-8.125000E-002	-1.478121E-002	-2.867362E-001	-5.215843E-001
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69	3	-9.308965E-002	-1.683492E-002	-3.284857E-001	-5.940517E-001
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71	3	-1.117205E-001	-7.503823E-003	-3.942274E-001	-2.647870E-001
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72	4	-1.113416E-001	-2.119537E-003	-3.928915E-001	-7.479148E-002
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73	1	-1.436532E-004	-9.081992E-006	-5.069205E-002	-3.204733E-002
73	2	-1.436590E-004	-9.162258E-006	-5.069163E-002	-3.233253E-002
73	3	-1.441125E-004	-9.161717E-006	-5.085389E-002	-3.232964E-002
73	4	-1.441222E-004	-9.081361E-006	-5.085590E-002	-3.204780E-002

73	5	-1.436542E-004	-9.120935E-006	-5.069238E-002	-3.219149E-002
73	6	-1.438874E-004	-9.161680E-006	-5.077418E-002	-3.232768E-002
73	7	-1.441144E-004	-9.121882E-006	-5.085590E-002	-3.218947E-002
73	8	-1.438898E-004	-9.081040E-006	-5.077404E-002	-3.205068E-002
73	9	-1.438894E-004	-9.122340E-006	-5.077363E-002	-3.219143E-002
74	1	-1.441789E-004	-2.708786E-005	-5.087646E-002	-9.558715E-002
74	2	-1.441718E-004	-2.735750E-005	-5.087428E-002	-9.653720E-002
74	3	-1.457352E-004	-2.735742E-005	-5.142766E-002	-9.653733E-002
74	4	-1.457378E-004	-2.708730E-005	-5.142791E-002	-9.558401E-002
74	5	-1.441764E-004	-2.722242E-005	-5.087581E-002	-9.606051E-002
74	6	-1.449538E-004	-2.735680E-005	-5.115021E-002	-9.653631E-002
74	7	-1.457417E-004	-2.722217E-005	-5.142768E-002	-9.606197E-002
74	8	-1.449579E-004	-2.708677E-005	-5.115136E-002	-9.558297E-002
74	9	-1.449563E-004	-2.722242E-005	-5.115087E-002	-9.605707E-002
75	1	-1.463825E-004	-4.522617E-005	-5.165254E-002	-1.595867E-001
75	2	-1.463764E-004	-4.571988E-005	-5.165208E-002	-1.613298E-001
75	3	-1.492221E-004	-4.572001E-005	-5.265701E-002	-1.613331E-001
75	4	-1.492283E-004	-4.522566E-005	-5.265857E-002	-1.595881E-001
75	5	-1.463818E-004	-4.547308E-005	-5.165386E-002	-1.604597E-001
75	6	-1.478039E-004	-4.571932E-005	-5.215516E-002	-1.613318E-001
75	7	-1.492331E-004	-4.547293E-005	-5.265934E-002	-1.604582E-001
75	8	-1.478039E-004	-4.522545E-005	-5.215516E-002	-1.595874E-001
75	9	-1.478039E-004	-4.547248E-005	-5.215516E-002	-1.604609E-001
76	1	-1.503529E-004	-6.371491E-005	-5.305636E-002	-2.248303E-001
76	2	-1.503585E-004	-6.456710E-005	-5.305705E-002	-2.278369E-001
76	3	-1.552762E-004	-6.456694E-005	-5.479344E-002	-2.278371E-001
76	4	-1.552884E-004	-6.371310E-005	-5.479499E-002	-2.248267E-001
76	5	-1.503544E-004	-6.414035E-005	-5.305675E-002	-2.263351E-001
76	6	-1.528161E-004	-6.456678E-005	-5.392432E-002	-2.278378E-001
76	7	-1.552860E-004	-6.414050E-005	-5.479575E-002	-2.263347E-001
76	8	-1.528192E-004	-6.371325E-005	-5.392616E-002	-2.248273E-001
76	9	-1.528200E-004	-6.414094E-005	-5.392503E-002	-2.263345E-001
77	1	-1.566550E-004	-8.313618E-005	-5.527861E-002	-2.933600E-001
77	2	-1.566463E-004	-8.421539E-005	-5.527467E-002	-2.971738E-001
77	3	-1.628674E-004	-8.421588E-005	-5.747860E-002	-2.971735E-001
77	4	-1.628760E-004	-8.313500E-005	-5.747542E-002	-2.933612E-001
77	5	-1.566467E-004	-8.367466E-005	-5.527509E-002	-2.952637E-001
77	6	-1.597536E-004	-8.421464E-005	-5.637253E-002	-2.971704E-001
77	7	-1.628717E-004	-8.367498E-005	-5.747205E-002	-2.952649E-001
77	8	-1.597632E-004	-8.313548E-005	-5.637655E-002	-2.933613E-001
77	9	-1.597575E-004	-8.367476E-005	-5.637454E-002	-2.952653E-001
78	1	-1.647456E-004	-1.033664E-004	-5.813368E-002	-3.647443E-001
78	2	-1.647277E-004	-1.048301E-004	-5.812855E-002	-3.699141E-001
78	3	-1.731943E-004	-1.048309E-004	-6.111531E-002	-3.699172E-001
78	4	-1.731958E-004	-1.033665E-004	-6.111565E-002	-3.647436E-001
78	5	-1.647432E-004	-1.040972E-004	-5.813154E-002	-3.673281E-001
78	6	-1.689602E-004	-1.048303E-004	-5.962208E-002	-3.699158E-001
78	7	-1.731955E-004	-1.040973E-004	-6.111437E-002	-3.673273E-001
78	8	-1.689730E-004	-1.033652E-004	-5.962516E-002	-3.647466E-001
78	9	-1.689662E-004	-1.040977E-004	-5.962324E-002	-3.673286E-001
79	1	-1.746675E-004	-1.262674E-004	-6.163557E-002	-4.455625E-001
79	2	-1.746638E-004	-1.265567E-004	-6.163557E-002	-4.465792E-001
79	3	-1.763268E-004	-1.265567E-004	-6.221968E-002	-4.465812E-001
79	4	-1.763293E-004	-1.262686E-004	-6.222157E-002	-4.455688E-001
79	5	-1.746673E-004	-1.264126E-004	-6.163469E-002	-4.460727E-001
79	6	-1.754978E-004	-1.265561E-004	-6.192707E-002	-4.465795E-001
79	7	-1.763261E-004	-1.264121E-004	-6.222026E-002	-4.460752E-001
79	8	-1.754941E-004	-1.262673E-004	-6.192799E-002	-4.455597E-001
79	9	-1.754964E-004	-1.264123E-004	-6.192743E-002	-4.460711E-001
80	1	-1.796522E-004	-1.370582E-004	-6.339392E-002	-4.836337E-001

80	2	-1.796017E-004	-1.408927E-004	-6.337719E-002	-4.971696E-001
80	3	-2.017570E-004	-1.408938E-004	-7.119305E-002	-4.971741E-001
80	4	-2.017619E-004	-1.370576E-004	-7.119600E-002	-4.836379E-001
80	5	-1.796264E-004	-1.389739E-004	-6.338470E-002	-4.903954E-001
80	6	-1.906786E-004	-1.408936E-004	-6.728496E-002	-4.971676E-001
80	7	-2.017583E-004	-1.389740E-004	-7.119433E-002	-4.903980E-001
80	8	-1.987024E-004	-1.370574E-004	-6.729300E-002	-4.836348E-001
80	9	-1.986906E-004	-1.389739E-004	-6.728934E-002	-4.903973E-001
81	1	-2.456777E-004	-1.607480E-004	-8.669207E-002	-5.672339E-001
81	2	-2.456784E-004	-2.092827E-004	-8.669277E-002	-7.384967E-001
81	3	-5.253898E-004	-2.092901E-004	-1.853949E-001	-7.385240E-001
81	4	-5.253876E-004	-1.607605E-004	-1.853939E-001	-5.672745E-001
81	5	-2.456757E-004	-1.850155E-004	-8.669247E-002	-6.528649E-001
81	6	-3.855407E-004	-2.092871E-004	-1.360468E-001	-7.385122E-001
81	7	-5.253850E-004	-1.850250E-004	-1.853929E-001	-6.528991E-001
81	8	-3.855407E-004	-1.607541E-004	-1.360468E-001	-5.672534E-001
81	9	-3.855407E-004	-1.850205E-004	-1.360468E-001	-6.528829E-001
82	1	-5.554669E-004	-1.338135E-004	-1.960069E-001	-4.721893E-001
82	2	-5.554619E-004	-1.211510E-004	-1.960063E-001	-4.275867E-001
82	3	-4.824861E-002	-1.211484E-002	-1.702527E-001	-4.274938E-001
82	4	-4.824767E-002	-1.338122E-002	-1.702531E-001	-4.721817E-001
82	5	-5.554617E-004	-1.274818E-004	-1.960059E-001	-4.498477E-001
82	6	-5.189741E-004	-1.211496E-004	-1.831306E-001	-4.274999E-001
82	7	-4.824790E-002	-1.274800E-002	-1.702529E-001	-4.498386E-001
82	8	-5.189733E-002	-1.338128E-002	-1.831306E-001	-4.721835E-001
82	9	-5.189741E-004	-1.274812E-004	-1.831306E-001	-4.498460E-001
83	1	-4.744805E-002	-1.302623E-002	-1.674303E-001	-4.596566E-001
83	2	-4.744810E-002	-1.333827E-002	-1.674306E-001	-4.706731E-001
83	3	-4.925184E-002	-1.333841E-002	-1.737916E-001	-4.706727E-001
83	4	-4.925111E-002	-1.302635E-002	-1.737927E-001	-4.596594E-001
83	5	-4.744831E-002	-1.318223E-002	-1.674305E-001	-4.651632E-001
83	6	-4.834957E-002	-1.333836E-002	-1.706119E-001	-4.706736E-001
83	7	-4.925159E-002	-1.318240E-002	-1.737927E-001	-4.651676E-001
83	8	-4.834957E-002	-1.302620E-002	-1.706119E-001	-4.596590E-001
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84	1	-5.035507E-002	-1.389803E-002	-1.776878E-001	-4.984212E-001
84	2	-5.035506E-002	-1.490165E-002	-1.776879E-001	-5.258348E-001
84	3	-5.613886E-002	-1.490188E-002	-1.980955E-001	-5.258413E-001
84	4	-5.613796E-002	-1.389823E-002	-1.980968E-001	-4.984267E-001
84	5	-5.035507E-002	-1.439987E-002	-1.776879E-001	-5.081314E-001
84	6	-5.324688E-002	-1.490188E-002	-1.878926E-001	-5.258391E-001
84	7	-5.613892E-002	-1.439997E-002	-1.980976E-001	-5.081309E-001
84	8	-5.324688E-002	-1.389810E-002	-1.878926E-001	-4.984239E-001
84	9	-5.324688E-002	-1.439995E-002	-1.878926E-001	-5.081326E-001
85	1	-5.802362E-002	-1.433515E-002	-2.047487E-001	-5.058427E-001
85	2	-5.802362E-002	-1.557973E-002	-2.047489E-001	-5.497656E-001
85	3	-6.519515E-002	-1.557998E-002	-2.380567E-001	-5.497710E-001
85	4	-6.519563E-002	-1.433545E-002	-2.380557E-001	-5.058533E-001
85	5	-5.802353E-002	-1.495744E-002	-2.047476E-001	-5.278050E-001
85	6	-6.160979E-002	-1.557980E-002	-2.174027E-001	-5.497664E-001
85	7	-6.519515E-002	-1.495770E-002	-2.380539E-001	-5.278146E-001
85	8	-6.160979E-002	-1.433529E-002	-2.174027E-001	-5.058517E-001
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86	1	-6.751350E-002	-1.403969E-002	-2.382387E-001	-4.954196E-001
86	2	-6.751441E-002	-1.555745E-002	-2.382385E-001	-5.489745E-001
86	3	-7.627881E-002	-1.555778E-002	-2.691678E-001	-5.489863E-001
86	4	-7.627959E-002	-1.404011E-002	-2.691671E-001	-4.954317E-001
86	5	-6.751449E-002	-1.479855E-002	-2.382376E-001	-5.221982E-001
86	6	-7.189677E-002	-1.555765E-002	-2.537023E-001	-5.489817E-001
86	7	-7.627920E-002	-1.479894E-002	-2.691674E-001	-5.222096E-001

86	8	-7.189677E-002	-1.403987E-002	-2.537023E-001	-4.954266E-001
86	9	-7.189677E-002	-1.479873E-002	-2.537023E-001	-5.222035E-001
87	1	-7.889578E-002	-1.264995E-002	-2.783982E-001	-4.463830E-001
87	2	-7.889548E-002	-1.424965E-002	-2.783984E-001	-5.028294E-001
87	3	-8.811288E-002	-1.425000E-002	-3.109248E-001	-5.028387E-001
87	4	-8.811314E-002	-1.265031E-002	-3.109247E-001	-4.463896E-001
87	5	-7.889614E-002	-1.344986E-002	-2.783990E-001	-4.746067E-001
87	6	-8.350434E-002	-1.424980E-002	-2.946616E-001	-5.028349E-001
87	7	-8.811251E-002	-1.345015E-002	-3.109243E-001	-4.746163E-001
87	8	-8.350434E-002	-1.265013E-002	-2.946616E-001	-4.463862E-001
87	9	-8.350434E-002	-1.345002E-002	-2.946616E-001	-4.746115E-001
88	1	-9.054103E-002	-9.913986E-003	-3.194925E-001	-3.498331E-001
88	2	-9.054077E-002	-1.121037E-002	-3.194917E-001	-3.955826E-001
88	3	-9.801161E-002	-1.121070E-002	-3.458535E-001	-3.955937E-001
88	4	-9.801133E-002	-9.914297E-003	-3.458543E-001	-3.498468E-001
88	5	-9.054092E-002	-1.056213E-002	-3.194922E-001	-3.727083E-001
88	6	-9.427615E-002	-1.121054E-002	-3.326723E-001	-3.955882E-001
88	7	-9.801123E-002	-1.056254E-002	-3.458529E-001	-3.727205E-001
88	8	-9.427615E-002	-9.914071E-003	-3.326723E-001	-3.498400E-001
88	9	-9.427615E-002	-1.056232E-002	-3.326723E-001	-3.727140E-001
89	1	-9.961917E-002	-6.113681E-003	-3.515284E-001	-2.157319E-001
89	2	-9.961925E-002	-6.734124E-003	-3.515249E-001	-2.376269E-001
89	3	-1.031953E-001	-6.734249E-003	-3.641464E-001	-2.376324E-001
89	4	-1.032024E-001	-6.113748E-003	-3.641713E-001	-2.157352E-001
89	5	-9.961944E-002	-6.424164E-003	-3.515280E-001	-2.266808E-001
89	6	-1.014071E-001	-6.734194E-003	-3.570361E-001	-2.376289E-001
89	7	-1.031987E-001	-6.424327E-003	-3.641581E-001	-2.266944E-001
89	8	-1.014110E-001	-6.113683E-003	-3.578507E-001	-2.157326E-001
89	9	-1.014093E-001	-6.424202E-003	-3.578429E-001	-2.266912E-001
90	1	-1.038679E-001	-2.014746E-003	-3.665195E-001	-7.109496E-002
90	2	-1.038670E-001	-2.122904E-003	-3.665145E-001	-7.491026E-002
90	3	-1.044912E-001	-2.122928E-003	-3.687186E-001	-7.491247E-002
90	4	-1.044915E-001	-2.014754E-003	-3.687198E-001	-7.109486E-002
90	5	-1.038672E-001	-2.068771E-003	-3.665174E-001	-7.300221E-002
90	6	-1.041792E-001	-2.123001E-003	-3.676172E-001	-7.491352E-002
90	7	-1.044916E-001	-2.068791E-003	-3.687198E-001	-7.300214E-002
90	8	-1.041797E-001	-2.014692E-003	-3.676197E-001	-7.109305E-002
90	9	-1.041793E-001	-2.068825E-003	-3.676184E-001	-7.300265E-002
91	1	-1.747785E-004	-9.005112E-006	-6.167500E-002	-3.177341E-002
91	2	-1.747762E-004	-9.062331E-006	-6.167489E-002	-3.197769E-002
91	3	-1.751124E-004	-9.062309E-006	-6.179154E-002	-3.198073E-002
91	4	-1.751119E-004	-9.004143E-006	-6.179281E-002	-3.177765E-002
91	5	-1.747787E-004	-9.034548E-006	-6.167347E-002	-3.187612E-002
91	6	-1.749436E-004	-9.062918E-006	-6.173325E-002	-3.198056E-002
91	7	-1.751132E-004	-9.033653E-006	-6.179074E-002	-3.187710E-002
91	8	-1.749462E-004	-9.004161E-006	-6.173405E-002	-3.177432E-002
91	9	-1.749446E-004	-9.033232E-006	-6.173282E-002	-3.187938E-002
92	1	-1.753942E-004	-2.672685E-005	-6.189155E-002	-9.430826E-002
92	2	-1.753940E-004	-2.700738E-005	-6.189109E-002	-9.530330E-002
92	3	-1.779227E-004	-2.700883E-005	-6.246459E-002	-9.530865E-002
92	4	-1.778193E-004	-2.672699E-005	-6.246630E-002	-9.431501E-002
92	5	-1.754011E-004	-2.686803E-005	-6.189213E-002	-9.480895E-002
92	6	-1.762869E-004	-2.700917E-005	-6.217765E-002	-9.530517E-002
92	7	-1.778176E-004	-2.686829E-005	-6.246368E-002	-9.481009E-002
92	8	-1.762119E-004	-2.672768E-005	-6.217832E-002	-9.431355E-002
92	9	-1.762082E-004	-2.686833E-005	-6.217870E-002	-9.481047E-002
93	1	-1.775480E-004	-4.444805E-005	-6.265149E-002	-1.568139E-001
93	2	-1.775407E-004	-4.506340E-005	-6.264816E-002	-1.590164E-001
93	3	-1.811404E-004	-4.506308E-005	-6.391887E-002	-1.590135E-001
93	4	-1.811586E-004	-4.443891E-005	-6.392899E-002	-1.568141E-001

93	5	-1.775505E-004	-4.475174E-005	-6.265121E-002	-1.579129E-001
93	6	-1.793420E-004	-4.506337E-005	-6.328435E-002	-1.559161E-001
93	7	-1.811409E-004	-4.475110E-005	-6.392028E-002	-1.579153E-001
93	8	-1.793447E-004	-4.443948E-005	-6.328661E-002	-1.568139E-001
93	9	-1.793456E-004	-4.475142E-005	-6.328501E-002	-1.579137E-001
94	1	-1.822997E-004	-6.241394E-005	-6.432743E-002	-2.202450E-001
94	2	-1.822966E-004	-6.344108E-005	-6.432360E-002	-2.238666E-001
94	3	-1.882110E-004	-6.344076E-005	-6.641456E-002	-2.238640E-001
94	4	-1.882146E-004	-6.241527E-005	-6.641518E-002	-2.202432E-001
94	5	-1.822963E-004	-6.292882E-005	-6.432656E-002	-2.220533E-001
94	6	-1.852476E-004	-6.344054E-005	-6.536863E-002	-2.238627E-001
94	7	-1.882100E-004	-6.292739E-005	-6.641381E-002	-2.220518E-001
94	8	-1.852535E-004	-6.241601E-005	-6.537008E-002	-2.202487E-001
94	9	-1.852516E-004	-6.292717E-005	-6.537011E-002	-2.220493E-001
95	1	-1.903435E-004	-8.124369E-005	-6.716601E-002	-2.866866E-001
95	2	-1.903455E-004	-8.275936E-005	-6.716743E-002	-2.920332E-001
95	3	-1.990821E-004	-8.276024E-005	-7.025035E-002	-2.920367E-001
95	4	-1.990832E-004	-8.124269E-005	-7.024970E-002	-2.866808E-001
95	5	-1.903491E-004	-8.280145E-005	-6.716820E-002	-2.893611E-001
95	6	-1.947132E-004	-8.275908E-005	-6.870859E-002	-2.920309E-001
95	7	-1.990812E-004	-8.280138E-005	-7.024848E-002	-2.893596E-001
95	8	-1.947132E-004	-8.124430E-005	-6.870859E-002	-2.866837E-001
95	9	-1.947132E-004	-8.280182E-005	-6.870859E-002	-2.893623E-001
96	1	-2.010317E-004	-1.022323E-004	-7.093764E-002	-3.607442E-001
96	2	-2.010272E-004	-1.030366E-004	-7.093781E-002	-3.635851E-001
96	3	-2.056787E-004	-1.030359E-004	-7.257795E-002	-3.635840E-001
96	4	-2.056722E-004	-1.022314E-004	-7.257649E-002	-3.607463E-001
96	5	-2.010257E-004	-1.026344E-004	-7.093792E-002	-3.621651E-001
96	6	-2.033535E-004	-1.030358E-004	-7.175768E-002	-3.635848E-001
96	7	-2.056750E-004	-1.026340E-004	-7.257722E-002	-3.621678E-001
96	8	-2.033535E-004	-1.022314E-004	-7.175760E-002	-3.607433E-001
96	9	-2.033535E-004	-1.026342E-004	-7.175760E-002	-3.621655E-001
97	1	-2.102304E-004	-1.209319E-004	-7.418457E-002	-4.267326E-001
97	2	-2.102329E-004	-1.255551E-004	-7.418532E-002	-4.430460E-001
97	3	-2.368777E-004	-1.255571E-004	-8.358808E-002	-4.430537E-001
97	4	-2.368796E-004	-1.209320E-004	-8.358877E-002	-4.267373E-001
97	5	-2.102358E-004	-1.232438E-004	-7.418514E-002	-4.348882E-001
97	6	-2.235572E-004	-1.255557E-004	-7.888672E-002	-4.430464E-001
97	7	-2.368768E-004	-1.232448E-004	-8.358743E-002	-4.348960E-001
97	8	-2.235572E-004	-1.209318E-004	-7.888672E-002	-4.267333E-001
97	9	-2.235572E-004	-1.232437E-004	-7.888672E-002	-4.348915E-001
98	1	-2.234540E-004	-1.600876E-004	-7.885073E-002	-5.649017E-001
98	2	-2.234867E-004	-1.394926E-004	-7.886076E-002	-4.922304E-001
98	3	-1.047573E-004	-1.394875E-004	-3.696423E-002	-4.922071E-001
98	4	-1.045142E-004	-1.600814E-004	-3.687983E-002	-5.648804E-001
98	5	-2.234693E-004	-1.497805E-004	-7.885606E-002	-5.285313E-001
98	6	-1.641217E-004	-1.394897E-004	-5.791278E-002	-4.922192E-001
98	7	-1.046388E-004	-1.497766E-004	-3.692262E-002	-5.285125E-001
98	8	-1.639834E-004	-1.600843E-004	-5.786619E-002	-5.648893E-001
98	9	-1.640530E-004	-1.497781E-004	-5.788921E-002	-5.285234E-001
99	1	-1.198621E-004	-1.110505E-004	-4.201298E-002	-3.918653E-001
99	2	-1.186314E-004	-1.482552E-004	-4.186204E-002	-5.231491E-001
99	3	-3.335026E-004	-1.482657E-004	-1.176825E-001	-5.231863E-001
99	4	-3.447543E-002	-1.147877E-002	-1.177030E-001	-3.918972E-001
99	5	-1.188420E-004	-1.296357E-004	-4.193630E-002	-4.574493E-001
99	6	-2.268683E-004	-1.482608E-004	-7.977281E-002	-5.231689E-001
99	7	-3.335317E-004	-1.296467E-004	-1.176941E-001	-4.574874E-001
99	8	-2.263100E-004	-1.110555E-004	-7.985034E-002	-3.918820E-001
99	9	-2.261892E-004	-1.296414E-004	-7.981586E-002	-4.574651E-001
100	1	-3.777307E-002	-1.179485E-002	-1.332908E-001	-4.162094E-001

100	2	-3.777288E-004	-1.334032E-004	-1.332982E-001	-4.707411E-001
100	3	-4.667929E-002	-1.334066E-002	-1.647179E-001	-4.707518E-001
100	4	-4.667927E-002	-1.179536E-002	-1.647162E-001	-4.162252E-001
100	5	-3.777242E-002	-1.256765E-002	-1.332878E-001	-4.434772E-001
100	6	-4.222622E-002	-1.334046E-002	-1.490037E-001	-4.707454E-001
100	7	-4.667904E-002	-1.256796E-002	-1.647180E-001	-4.434861E-001
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101	1	-4.835018E-002	-1.246967E-002	-1.706134E-001	-4.400150E-001
101	2	-4.834916E-002	-1.291602E-002	-1.706113E-001	-4.557705E-001
101	3	-5.892262E-002	-1.291614E-002	-1.796901E-001	-4.557721E-001
101	4	-5.892784E-002	-1.246976E-002	-1.797090E-001	-4.400241E-001
101	5	-4.834954E-002	-1.269298E-002	-1.706182E-001	-4.479034E-001
101	6	-4.963631E-002	-1.291607E-002	-1.751507E-001	-4.557724E-001
101	7	-5.892495E-002	-1.269316E-002	-1.796997E-001	-4.479058E-001
101	8	-4.963895E-002	-1.246974E-002	-1.751609E-001	-4.400224E-001
101	9	-4.963753E-002	-1.269310E-002	-1.751561E-001	-4.479018E-001
102	1	-5.201833E-002	-1.276883E-002	-1.835591E-001	-4.505769E-001
102	2	-5.200921E-002	-1.362700E-002	-1.835245E-001	-4.808587E-001
102	3	-5.696382E-002	-1.362706E-002	-2.010075E-001	-4.808586E-001
102	4	-5.696495E-002	-1.276897E-002	-2.010117E-001	-4.505817E-001
102	5	-5.201336E-002	-1.319754E-002	-1.835396E-001	-4.657024E-001
102	6	-5.448645E-002	-1.362699E-002	-1.922664E-001	-4.808588E-001
102	7	-5.696421E-002	-1.319765E-002	-2.010103E-001	-4.657069E-001
102	8	-5.449169E-002	-1.276884E-002	-1.922854E-001	-4.505754E-001
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103	1	-5.860318E-002	-1.289886E-002	-2.067930E-001	-4.551638E-001
103	2	-5.860332E-002	-1.399463E-002	-2.067933E-001	-4.938388E-001
103	3	-6.491768E-002	-1.399489E-002	-2.290751E-001	-4.938391E-001
103	4	-6.491715E-002	-1.289916E-002	-2.290760E-001	-4.551719E-001
103	5	-5.860274E-002	-1.344672E-002	-2.067921E-001	-4.744979E-001
103	6	-6.176037E-002	-1.399480E-002	-2.179343E-001	-4.938330E-001
103	7	-6.491715E-002	-1.344705E-002	-2.290741E-001	-4.745071E-001
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104	1	-6.689462E-002	-1.237573E-002	-2.360519E-001	-4.367052E-001
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104	4	-7.417052E-002	-1.237606E-002	-2.617268E-001	-4.367178E-001
104	5	-6.689375E-002	-1.300639E-002	-2.360488E-001	-4.589549E-001
104	6	-7.052410E-002	-1.363594E-002	-2.488602E-001	-4.811739E-001
104	7	-7.416293E-002	-1.300674E-002	-2.617000E-001	-4.589691E-001
104	8	-7.053281E-002	-1.237599E-002	-2.488896E-001	-4.367097E-001
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105	1	-7.631206E-002	-1.096318E-002	-2.692819E-001	-3.868586E-001
105	2	-7.629684E-002	-1.223227E-002	-2.692299E-001	-4.316402E-001
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105	5	-7.630462E-002	-1.159719E-002	-2.692563E-001	-4.092315E-001
105	6	-7.996018E-002	-1.223240E-002	-2.821569E-001	-4.316433E-001
105	7	-8.362459E-002	-1.159739E-002	-2.950850E-001	-4.092401E-001
105	8	-7.996802E-002	-1.096325E-002	-2.821857E-001	-3.868613E-001
105	9	-7.996469E-002	-1.159729E-002	-2.821719E-001	-4.092330E-001
106	1	-8.554673E-002	-8.553891E-003	-3.018705E-001	-3.018116E-001
106	2	-8.554689E-002	-9.576208E-003	-3.018694E-001	-3.379164E-001
106	3	-9.144143E-002	-9.576485E-003	-3.226715E-001	-3.379246E-001
106	4	-9.144120E-002	-8.553328E-003	-3.226715E-001	-3.018216E-001
106	5	-8.554710E-002	-9.064624E-003	-3.018699E-001	-3.198659E-001
106	6	-8.849456E-002	-9.576354E-003	-3.122705E-001	-3.379206E-001
106	7	-9.144156E-002	-9.064887E-003	-3.226700E-001	-3.198720E-001

106	8	-8.849456E-002	-8.553212E-003	-3.122705E-001	-3.018186E-001
106	9	-8.849456E-002	-9.064770E-003	-3.122705E-001	-3.198690E-001
107	1	-9.278497E-002	-5.359359E-003	-3.274104E-001	-1.891173E-001
107	2	-9.278522E-002	-5.938475E-003	-3.274113E-001	-2.095542E-001
107	3	-9.612200E-002	-5.938730E-003	-3.391868E-001	-2.095591E-001
107	4	-9.612176E-002	-5.359481E-003	-3.391858E-001	-1.891220E-001
107	5	-9.278502E-002	-5.649082E-003	-3.274118E-001	-1.993348E-001
107	6	-9.445316E-002	-5.938666E-003	-3.332980E-001	-2.095564E-001
107	7	-9.612164E-002	-5.649102E-003	-3.391854E-001	-1.993399E-001
107	8	-9.445316E-002	-5.359358E-003	-3.332980E-001	-1.891167E-001
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108	1	-9.674703E-002	-1.808045E-003	-3.413914E-001	-6.380331E-002
108	2	-9.674627E-002	-1.974476E-003	-3.413921E-001	-6.967310E-002
108	3	-9.770786E-002	-1.974592E-003	-3.447825E-001	-6.967755E-002
108	4	-9.770742E-002	-1.808154E-003	-3.447827E-001	-6.380450E-002
108	5	-9.674671E-002	-1.891269E-003	-3.413908E-001	-6.673870E-002
108	6	-9.722725E-002	-1.974534E-003	-3.430869E-001	-6.967640E-002
108	7	-9.770738E-002	-1.891321E-003	-3.447816E-001	-6.673998E-002
108	8	-9.722725E-002	-1.808157E-003	-3.430869E-001	-6.380383E-002
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109	1	-2.054916E-004	-8.915931E-006	-7.251164E-002	-3.146466E-002
109	2	-2.054902E-004	-8.988305E-006	-7.251120E-002	-3.171694E-002
109	3	-2.059033E-004	-8.987268E-006	-7.265680E-002	-3.171555E-002
109	4	-2.058972E-004	-8.915954E-006	-7.265546E-002	-3.146769E-002
109	5	-2.054916E-004	-8.952791E-006	-7.251317E-002	-3.159004E-002
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110	1	-2.059641E-004	-2.637540E-005	-7.267854E-002	-9.307203E-002
110	2	-2.059552E-004	-2.664778E-005	-7.267731E-002	-9.403256E-002
110	3	-2.075364E-004	-2.664803E-005	-7.323162E-002	-9.403095E-002
110	4	-2.075310E-004	-2.637484E-005	-7.323153E-002	-9.307137E-002
110	5	-2.059633E-004	-2.651150E-005	-7.267878E-002	-9.355092E-002
110	6	-2.067435E-004	-2.664780E-005	-7.295419E-002	-9.403119E-002
110	7	-2.075310E-004	-2.651221E-005	-7.323149E-002	-9.355182E-002
110	8	-2.067460E-004	-2.637618E-005	-7.295505E-002	-9.307222E-002
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111	1	-2.082873E-004	-4.364122E-005	-7.349675E-002	-1.539975E-001
111	2	-2.082819E-004	-4.426102E-005	-7.349683E-002	-1.561026E-001
111	3	-2.118451E-004	-4.426005E-005	-7.475300E-002	-1.561030E-001
111	4	-2.118458E-004	-4.364198E-005	-7.475396E-002	-1.540048E-001
111	5	-2.082788E-004	-4.395103E-005	-7.349607E-002	-1.550876E-001
111	6	-2.100629E-004	-4.426106E-005	-7.412446E-002	-1.561811E-001
111	7	-2.118394E-004	-4.395076E-005	-7.475256E-002	-1.550914E-001
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111	9	-2.100629E-004	-4.395060E-005	-7.412446E-002	-1.550899E-001
112	1	-2.133380E-004	-6.094202E-005	-7.527916E-002	-2.150489E-001
112	2	-2.133332E-004	-6.209912E-005	-7.527956E-002	-2.191287E-001
112	3	-2.200058E-004	-6.209983E-005	-7.763359E-002	-2.191308E-001
112	4	-2.200186E-004	-6.094371E-005	-7.763870E-002	-2.150462E-001
112	5	-2.133296E-004	-6.152148E-005	-7.527784E-002	-2.170914E-001
112	6	-2.166668E-004	-6.209955E-005	-7.645648E-002	-2.191296E-001
112	7	-2.200128E-004	-6.152185E-005	-7.763667E-002	-2.170932E-001
112	8	-2.166764E-004	-6.094278E-005	-7.645924E-002	-2.150488E-001
112	9	-2.166723E-004	-6.152126E-005	-7.645804E-002	-2.170935E-001
113	1	-2.225082E-004	-7.863890E-005	-7.851477E-002	-2.774969E-001
113	2	-2.224849E-004	-8.072109E-005	-7.850733E-002	-2.848392E-001
113	3	-2.344985E-004	-8.072129E-005	-8.275005E-002	-2.848412E-001
113	4	-2.345047E-004	-7.864016E-005	-8.275021E-002	-2.774980E-001

113	5	-2.224929E-004	-7.967925E-005	-7.851212E-002	-2.811635E-001
113	6	-2.284912E-004	-8.072115E-005	-8.062901E-002	-2.848420E-001
113	7	-2.345844E-004	-7.968004E-005	-8.275097E-002	-2.811698E-001
113	8	-2.285869E-004	-7.863982E-005	-8.063337E-002	-2.774968E-001
113	9	-2.285800E-004	-7.967970E-005	-8.063095E-002	-2.811647E-001
114	1	-2.377459E-004	-1.008824E-004	-8.389399E-002	-3.531615E-001
114	2	-2.377445E-004	-1.018505E-004	-8.389332E-002	-3.594288E-001
114	3	-2.479747E-004	-1.018505E-004	-8.750349E-002	-3.594282E-001
114	4	-2.479999E-004	-1.008849E-004	-8.751146E-002	-3.531644E-001
114	5	-2.377424E-004	-1.009710E-004	-8.389224E-002	-3.563001E-001
114	6	-2.428609E-004	-1.018595E-004	-8.569832E-002	-3.594309E-001
114	7	-2.479951E-004	-1.009716E-004	-8.750857E-002	-3.563012E-001
114	8	-2.428726E-004	-1.008833E-004	-8.570264E-002	-3.531622E-001
114	9	-2.428678E-004	-1.009721E-004	-8.570128E-002	-3.562965E-001
115	1	-2.478916E-004	-1.220589E-004	-8.747299E-002	-4.307119E-001
115	2	-2.479119E-004	-1.204883E-004	-8.748110E-002	-4.251670E-001
115	3	-2.388609E-004	-1.204882E-004	-8.428508E-002	-4.251694E-001
115	4	-2.388338E-004	-1.220599E-004	-8.427660E-002	-4.307114E-001
115	5	-2.478980E-004	-1.212736E-004	-8.747640E-002	-4.279422E-001
115	6	-2.433799E-004	-1.204892E-004	-8.588259E-002	-4.251684E-001
115	7	-2.388399E-004	-1.212739E-004	-8.428142E-002	-4.279384E-001
115	8	-2.433642E-004	-1.220597E-004	-8.587468E-002	-4.307187E-001
115	9	-2.433704E-004	-1.212733E-004	-8.587864E-002	-4.279381E-001
116	1	-2.551882E-004	-1.386522E-004	-9.004819E-002	-4.892641E-001
116	2	-2.549405E-004	-1.599812E-004	-8.996198E-002	-5.645264E-001
116	3	-3.781230E-004	-1.599869E-004	-1.334268E-001	-5.645475E-001
116	4	-3.781502E-004	-1.386578E-004	-1.334392E-001	-4.892825E-001
116	5	-2.550656E-004	-1.493888E-004	-9.000593E-002	-5.268641E-001
116	6	-3.165322E-004	-1.599844E-004	-1.116947E-001	-5.645362E-001
116	7	-3.781396E-004	-1.493130E-004	-1.334328E-001	-5.268822E-001
116	8	-3.166728E-004	-1.386562E-004	-1.117444E-001	-4.892766E-001
116	9	-3.166028E-004	-1.493112E-004	-1.117190E-001	-5.268716E-001
117	1	-4.011019E-004	-9.876463E-005	-1.415366E-001	-3.485152E-001
117	2	-4.010939E-004	-1.047867E-004	-1.415341E-001	-3.697624E-001
117	3	-4.358071E-002	-1.047879E-002	-1.537829E-001	-3.697678E-001
117	4	-4.358015E-002	-9.876733E-003	-1.538078E-001	-3.485202E-001
117	5	-4.011006E-004	-1.017798E-004	-1.415355E-001	-3.591452E-001
117	6	-4.184507E-004	-1.047869E-004	-1.476579E-001	-3.697616E-001
117	7	-4.358450E-002	-1.017798E-002	-1.537958E-001	-3.591514E-001
117	8	-4.413501E-002	-1.041614E-002	-1.476728E-001	-3.485160E-001
117	9	-4.184694E-004	-1.017796E-004	-1.476651E-001	-3.591487E-001
118	1	-4.440879E-002	-1.111829E-002	-1.567854E-001	-3.923338E-001
118	2	-4.440413E-002	-1.151283E-002	-1.566896E-001	-4.062535E-001
118	3	-4.668222E-002	-1.151298E-002	-1.647262E-001	-4.062570E-001
118	4	-4.668299E-002	-1.111849E-002	-1.647290E-001	-3.923390E-001
118	5	-4.440635E-002	-1.131544E-002	-1.566959E-001	-3.992911E-001
118	6	-4.554274E-002	-1.151298E-002	-1.607068E-001	-4.062577E-001
118	7	-4.668213E-002	-1.131553E-002	-1.647268E-001	-3.992966E-001
118	8	-4.554564E-002	-1.111845E-002	-1.607164E-001	-3.923385E-001
118	9	-4.554415E-002	-1.131551E-002	-1.607123E-001	-3.992906E-001
119	1	-4.760960E-002	-1.158975E-002	-1.680013E-001	-4.089701E-001
119	2	-4.760972E-002	-1.230102E-002	-1.680018E-001	-4.340664E-001
119	3	-5.170880E-002	-1.230116E-002	-1.824662E-001	-4.340745E-001
119	4	-5.170888E-002	-1.158991E-002	-1.824659E-001	-4.089748E-001
119	5	-4.761037E-002	-1.194535E-002	-1.680003E-001	-4.215166E-001
119	6	-4.965923E-002	-1.230115E-002	-1.752335E-001	-4.340685E-001
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120	1	-5.293677E-002	-1.178361E-002	-1.867983E-001	-4.158104E-001

120	2	-5.293557E-002	-1.253504E-002	-1.867948E-001	-4.423234E-001
120	3	-5.726785E-002	-1.253524E-002	-2.020885E-001	-4.423305E-001
120	4	-5.727627E-002	-1.178383E-002	-2.021119E-001	-4.158180E-001
120	5	-5.293638E-002	-1.215972E-002	-1.867984E-001	-4.290796E-001
120	6	-5.510164E-002	-1.253520E-002	-1.944370E-001	-4.423315E-001
120	7	-5.727179E-002	-1.215989E-002	-2.020949E-001	-4.290873E-001
120	8	-5.510645E-002	-1.178372E-002	-1.944548E-001	-4.158139E-001
120	9	-5.510379E-002	-1.215978E-002	-1.944460E-001	-4.290825E-001
121	1	-5.870731E-002	-1.164934E-002	-2.071605E-001	-4.110705E-001
121	2	-5.869600E-002	-1.260071E-002	-2.071213E-001	-4.446419E-001
121	3	-6.418898E-002	-1.260092E-002	-2.265042E-001	-4.446512E-001
121	4	-6.419868E-002	-1.164967E-002	-2.265089E-001	-4.110808E-001
121	5	-5.870889E-002	-1.212453E-002	-2.071391E-001	-4.278404E-001
121	6	-6.144294E-002	-1.260084E-002	-2.168144E-001	-4.446442E-001
121	7	-6.418990E-002	-1.212487E-002	-2.265072E-001	-4.278524E-001
121	8	-6.144923E-002	-1.164941E-002	-2.168351E-001	-4.110745E-001
121	9	-6.144584E-002	-1.212476E-002	-2.168251E-001	-4.278450E-001
122	1	-6.587158E-002	-1.098533E-002	-2.324426E-001	-3.876399E-001
122	2	-6.587153E-002	-1.203872E-002	-2.324425E-001	-4.248122E-001
122	3	-7.194147E-002	-1.203900E-002	-2.538606E-001	-4.248226E-001
122	4	-7.194182E-002	-1.098564E-002	-2.538601E-001	-3.876505E-001
122	5	-6.587156E-002	-1.151199E-002	-2.324416E-001	-4.062243E-001
122	6	-6.890669E-002	-1.203889E-002	-2.431514E-001	-4.248165E-001
122	7	-7.194141E-002	-1.151233E-002	-2.538604E-001	-4.062348E-001
122	8	-6.890669E-002	-1.098545E-002	-2.431514E-001	-3.876461E-001
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123	1	-7.368950E-002	-9.600352E-003	-2.600277E-001	-3.387685E-001
123	2	-7.368927E-002	-1.062913E-002	-2.600281E-001	-3.750705E-001
123	3	-7.963070E-002	-1.062943E-002	-2.809930E-001	-3.750812E-001
123	4	-7.963060E-002	-9.600550E-003	-2.809943E-001	-3.387766E-001
123	5	-7.368989E-002	-1.011476E-002	-2.600296E-001	-3.569195E-001
123	6	-7.666007E-002	-1.062926E-002	-2.705109E-001	-3.750747E-001
123	7	-7.963139E-002	-1.011501E-002	-2.809936E-001	-3.569275E-001
123	8	-7.666007E-002	-9.600511E-003	-2.705109E-001	-3.387726E-001
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124	1	-8.119153E-002	-7.452339E-003	-2.865019E-001	-2.629699E-001
124	2	-8.119166E-002	-8.283125E-003	-2.865006E-001	-2.922886E-001
124	3	-8.597829E-002	-8.283415E-003	-3.033917E-001	-2.922984E-001
124	4	-8.597811E-002	-7.452649E-003	-3.033918E-001	-2.629840E-001
124	5	-8.119177E-002	-7.867764E-003	-2.865012E-001	-2.776291E-001
124	6	-8.358505E-002	-8.283210E-003	-2.949471E-001	-2.922916E-001
124	7	-8.597796E-002	-7.868057E-003	-3.033912E-001	-2.776389E-001
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125	1	-8.709949E-002	-4.694313E-003	-3.073481E-001	-1.656402E-001
125	2	-8.709978E-002	-5.201088E-003	-3.073491E-001	-1.835319E-001
125	3	-9.001923E-002	-5.201254E-003	-3.176514E-001	-1.835366E-001
125	4	-9.001984E-002	-4.694454E-003	-3.176505E-001	-1.656525E-001
125	5	-8.709963E-002	-4.947689E-003	-3.073496E-001	-1.745915E-001
125	6	-8.855930E-002	-5.201205E-003	-3.124986E-001	-1.835353E-001
125	7	-9.001938E-002	-4.947830E-003	-3.176509E-001	-1.745958E-001
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126	1	-9.058034E-002	-1.597131E-003	-3.196324E-001	-5.636018E-002
126	2	-9.058862E-002	-1.760011E-003	-3.196315E-001	-6.210291E-002
126	3	-9.152041E-002	-1.759981E-003	-3.229502E-001	-6.210284E-002
126	4	-9.152051E-002	-1.597097E-003	-3.229495E-001	-5.635767E-002
126	5	-9.057996E-002	-1.678542E-003	-3.196319E-001	-5.923059E-002
126	6	-9.105060E-002	-1.760029E-003	-3.212910E-001	-6.210503E-002
126	7	-9.152047E-002	-1.678520E-003	-3.229493E-001	-5.923245E-002

126	8	-9.105060E-002	-1.597180E-003	-3.212910E-001	-5.635997E-002
126	9	-9.105060E-002	-1.678561E-003	-3.212910E-001	-5.923057E-002
127	1	-2.360281E-004	-8.910034E-006	-8.328688E-002	-3.144334E-002
127	2	-2.360314E-004	-8.989724E-006	-8.328807E-002	-3.143652E-002
127	3	-2.360137E-004	-8.908679E-006	-8.328321E-002	-3.143795E-002
127	4	-2.360155E-004	-8.910018E-006	-8.328255E-002	-3.143992E-002
127	5	-2.360328E-004	-8.989229E-006	-8.328696E-002	-3.143983E-002
127	6	-2.360208E-004	-8.908545E-006	-8.328556E-002	-3.143574E-002
127	7	-2.360214E-004	-8.908609E-006	-8.328368E-002	-3.143872E-002
127	8	-2.360237E-004	-8.910790E-006	-8.328552E-002	-3.144354E-002
127	9	-2.360224E-004	-8.910083E-006	-8.328550E-002	-3.144214E-002
128	1	-2.361913E-004	-2.609559E-005	-8.334474E-002	-9.208400E-002
128	2	-2.361935E-004	-2.630650E-005	-8.334420E-002	-9.282819E-002
128	3	-2.374114E-004	-2.630588E-005	-8.377502E-002	-9.282498E-002
128	4	-2.374122E-004	-2.609507E-005	-8.377636E-002	-9.208614E-002
128	5	-2.361920E-004	-2.620175E-005	-8.334439E-002	-9.245557E-002
128	6	-2.367978E-004	-2.630698E-005	-8.356027E-002	-9.283143E-002
128	7	-2.374171E-004	-2.620154E-005	-8.377659E-002	-9.245745E-002
128	8	-2.367998E-004	-2.609410E-005	-8.356060E-002	-9.208194E-002
128	9	-2.368006E-004	-2.620088E-005	-8.355967E-002	-9.245651E-002
129	1	-2.378992E-004	-4.283703E-005	-8.394751E-002	-1.511572E-001
129	2	-2.378926E-004	-4.346207E-005	-8.394504E-002	-1.533639E-001
129	3	-4.415057E-004	-4.346196E-005	-8.522082E-002	-1.533657E-001
129	4	-2.415056E-004	-4.283664E-005	-8.522011E-002	-1.511525E-001
129	5	-2.378925E-004	-4.314891E-005	-8.394477E-002	-1.522569E-001
129	6	-2.396979E-004	-4.346306E-005	-8.458145E-002	-1.533659E-001
129	7	-2.415072E-004	-4.314931E-005	-8.522037E-002	-1.522609E-001
129	8	-2.397012E-004	-4.283561E-005	-8.458327E-002	-1.511586E-001
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130	2	-2.431178E-004	-6.058686E-005	-8.578797E-002	-2.137939E-001
130	3	-2.505615E-004	-6.058790E-005	-8.841749E-002	-2.137951E-001
130	4	-2.505659E-004	-5.929617E-005	-8.841772E-002	-2.092365E-001
130	5	-2.431143E-004	-5.994187E-005	-8.578837E-002	-2.115169E-001
130	6	-2.468385E-004	-6.058835E-005	-8.710195E-002	-2.137990E-001
130	7	-2.505638E-004	-5.994142E-005	-8.841760E-002	-2.115171E-001
130	8	-2.468385E-004	-5.929505E-005	-8.710195E-002	-2.092333E-001
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131	1	-2.533292E-004	-7.605603E-005	-8.939134E-002	-2.683817E-001
131	2	-2.533233E-004	-7.804854E-005	-8.939040E-002	-2.754132E-001
131	3	-2.648185E-004	-7.805014E-005	-9.344693E-002	-2.754161E-001
131	4	-2.648398E-004	-7.605644E-005	-9.345353E-002	-2.683791E-001
131	5	-2.533291E-004	-7.705337E-005	-8.939169E-002	-2.718996E-001
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131	7	-2.648220E-004	-7.705464E-005	-9.344991E-002	-2.718988E-001
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132	2	-2.713202E-004	-9.893978E-005	-9.574212E-002	-3.491293E-001
132	3	-3.064288E-004	-9.894079E-005	-1.081292E-001	-3.491334E-001
132	4	-3.064329E-004	-9.286231E-005	-1.081316E-001	-3.276854E-001
132	5	-2.713598E-004	-9.589782E-005	-9.575300E-002	-3.383932E-001
132	6	-2.888730E-004	-9.894003E-005	-1.019362E-001	-3.491318E-001
132	7	-3.064345E-004	-9.589995E-005	-1.081328E-001	-3.384005E-001
132	8	-2.889139E-004	-9.286297E-005	-1.019498E-001	-3.276812E-001
132	9	-2.888971E-004	-9.589813E-005	-1.019430E-001	-3.383978E-001
133	1	-3.817615E-004	-1.356456E-004	-1.064833E-001	-4.786525E-001
133	2	-3.817619E-004	-1.239804E-004	-1.064819E-001	-4.375189E-001
133	3	-2.345640E-004	-1.239833E-004	-8.276964E-002	-4.375005E-001
133	4	-2.345604E-004	-1.356421E-004	-8.277071E-002	-4.786443E-001

133	5	-3.017593E-004	-1.298171E-004	-1.064811E-001	-4.580837E-001
133	6	-2.681594E-004	-1.239864E-004	-9.462646E-002	-4.375125E-001
133	7	-2.345500E-004	-1.298136E-004	-8.276863E-002	-4.580745E-001
133	8	-2.681594E-004	-1.356442E-004	-9.462646E-002	-4.786484E-001
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134	1	-2.526979E-004	-9.751325E-005	-8.917056E-002	-3.448953E-001
134	2	-2.526971E-004	-1.307243E-004	-8.917024E-002	-4.612885E-001
134	3	-4.445449E-004	-1.307333E-004	-1.568682E-001	-4.613189E-001
134	4	-4.445499E-004	-9.752540E-005	-1.568682E-001	-3.441484E-001
134	5	-2.526961E-004	-1.141183E-004	-8.916952E-002	-4.026928E-001
134	6	-3.486281E-004	-1.307294E-004	-1.230201E-001	-4.613040E-001
134	7	-4.445552E-004	-1.141300E-004	-1.568698E-001	-4.027306E-001
134	8	-3.486281E-004	-9.751989E-005	-1.230201E-001	-3.441190E-001
134	9	-3.486281E-004	-1.141244E-004	-1.230201E-001	-4.027085E-001
135	1	-4.690251E-002	-1.025770E-002	-1.655051E-001	-3.619691E-001
135	2	-4.690275E-004	-9.848555E-005	-1.655056E-001	-3.475267E-001
135	3	-4.454443E-002	-9.848518E-003	-1.571834E-001	-3.475244E-001
135	4	-4.454454E-002	-1.025763E-002	-1.571835E-001	-3.619629E-001
135	5	-4.690285E-004	-1.005317E-004	-1.655079E-001	-3.547484E-001
135	6	-4.572358E-002	-9.848525E-003	-1.613449E-001	-3.475236E-001
135	7	-4.454396E-002	-1.005303E-002	-1.571835E-001	-3.547395E-001
135	8	-4.572358E-002	-1.025771E-002	-1.613449E-001	-3.619645E-001
135	9	-4.572358E-002	-1.005314E-002	-1.613449E-001	-3.547435E-001
136	1	-4.465152E-002	-1.044722E-002	-1.575638E-001	-3.686521E-001
136	2	-4.465155E-002	-1.098307E-002	-1.575627E-001	-3.875625E-001
136	3	-4.774722E-002	-1.098331E-002	-1.684864E-001	-3.875679E-001
136	4	-4.774715E-002	-1.044741E-002	-1.684846E-001	-3.686685E-001
136	5	-4.465154E-002	-1.071516E-002	-1.575627E-001	-3.781066E-001
136	6	-4.619930E-002	-1.098318E-002	-1.630239E-001	-3.875679E-001
136	7	-4.774695E-002	-1.071538E-002	-1.684864E-001	-3.781124E-001
136	8	-4.619930E-002	-1.044725E-002	-1.630239E-001	-3.686533E-001
136	9	-4.619930E-002	-1.071528E-002	-1.630239E-001	-3.781095E-001
137	1	-4.868032E-002	-1.082694E-002	-1.717785E-001	-3.820509E-001
137	2	-4.868034E-002	-1.140250E-002	-1.717789E-001	-4.023631E-001
137	3	-5.199770E-002	-1.140268E-002	-1.834849E-001	-4.023665E-001
137	4	-5.199765E-002	-1.082716E-002	-1.834847E-001	-3.820586E-001
137	5	-4.868107E-002	-1.111469E-002	-1.717796E-001	-3.922050E-001
137	6	-5.033921E-002	-1.140256E-002	-1.776317E-001	-4.023633E-001
137	7	-5.199740E-002	-1.111491E-002	-1.834848E-001	-3.922137E-001
137	8	-5.033921E-002	-1.082704E-002	-1.776317E-001	-3.820508E-001
137	9	-5.033921E-002	-1.111482E-002	-1.776317E-001	-3.922074E-001
138	1	-5.387518E-002	-1.086136E-002	-1.872877E-001	-3.832683E-001
138	2	-5.387523E-002	-1.157098E-002	-1.872863E-001	-4.083042E-001
138	3	-5.716306E-002	-1.157105E-002	-2.017130E-001	-4.083073E-001
138	4	-5.716385E-002	-1.086166E-002	-2.017140E-001	-3.832796E-001
138	5	-5.387544E-002	-1.121611E-002	-1.872875E-001	-3.957831E-001
138	6	-5.511941E-002	-1.157098E-002	-1.945007E-001	-4.083047E-001
138	7	-5.716321E-002	-1.121639E-002	-2.017126E-001	-3.957931E-001
138	8	-5.511941E-002	-1.086151E-002	-1.945007E-001	-3.832721E-001
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139	1	-5.844714E-002	-1.057211E-002	-2.062434E-001	-3.730594E-001
139	2	-5.844728E-002	-1.139191E-002	-2.062433E-001	-4.019867E-001
139	3	-6.318197E-002	-1.139210E-002	-2.229488E-001	-4.019939E-001
139	4	-6.318142E-002	-1.057238E-002	-2.229496E-001	-3.730668E-001
139	5	-5.844670E-002	-1.098200E-002	-2.062418E-001	-3.875208E-001
139	6	-6.081409E-002	-1.139196E-002	-2.145946E-001	-4.019900E-001
139	7	-6.318142E-002	-1.098223E-002	-2.229477E-001	-3.875324E-001
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139	9	-6.081409E-002	-1.098213E-002	-2.145946E-001	-3.875270E-001
140	1	-6.461275E-002	-9.817969E-003	-2.279995E-001	-3.464490E-001

140	2	-6.461210E-002	-1.070313E-002	-2.279992E-001	-3.776837E-001
140	3	-6.971351E-002	-1.070345E-002	-2.459983E-001	-3.776937E-001
140	4	-6.971338E-002	-9.818417E-003	-2.459978E-001	-3.464606E-001
140	5	-6.461266E-002	-1.026058E-002	-2.280004E-001	-3.620670E-001
140	6	-6.716332E-002	-1.070333E-002	-2.370000E-001	-3.776888E-001
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141	1	-7.116629E-002	-8.481674E-003	-2.511242E-001	-2.992948E-001
141	2	-7.116663E-002	-9.327446E-003	-2.511245E-001	-3.291398E-001
141	3	-7.604994E-002	-9.327685E-003	-2.683594E-001	-3.291485E-001
141	4	-7.605085E-002	-8.482052E-003	-2.683590E-001	-2.993068E-001
141	5	-7.116631E-002	-8.904614E-003	-2.511259E-001	-3.142165E-001
141	6	-7.360826E-002	-9.327575E-003	-2.597424E-001	-3.291439E-001
141	7	-7.605013E-002	-8.904829E-003	-2.683582E-001	-3.142292E-001
141	8	-7.360826E-002	-8.481838E-003	-2.597424E-001	-2.993032E-001
141	9	-7.360826E-002	-8.904748E-003	-2.597424E-001	-3.142224E-001
142	1	-7.733452E-002	-6.546837E-003	-2.728919E-001	-2.310161E-001
142	2	-7.733465E-002	-7.231598E-003	-2.728903E-001	-2.551821E-001
142	3	-8.128060E-002	-7.231845E-003	-2.868159E-001	-2.551931E-001
142	4	-8.128048E-002	-6.546918E-003	-2.868162E-001	-2.310254E-001
142	5	-7.733486E-002	-6.889171E-003	-2.728910E-001	-2.430978E-001
142	6	-7.930774E-002	-7.231773E-003	-2.798537E-001	-2.551872E-001
142	7	-8.128031E-002	-6.889430E-003	-2.868155E-001	-2.431059E-001
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143	1	-8.221753E-002	-4.125423E-003	-2.901211E-001	-1.455740E-001
143	2	-8.221739E-002	-4.557576E-003	-2.901204E-001	-1.608202E-001
143	3	-8.470663E-002	-4.557644E-003	-2.989048E-001	-1.608265E-001
143	4	-8.470697E-002	-4.125539E-003	-2.989059E-001	-1.455822E-001
143	5	-8.221722E-002	-4.341460E-003	-2.901207E-001	-1.531971E-001
143	6	-8.346203E-002	-4.557513E-003	-2.945127E-001	-1.608223E-001
143	7	-8.470680E-002	-4.341608E-003	-2.989044E-001	-1.532029E-001
143	8	-8.346203E-002	-4.125511E-003	-2.945127E-001	-1.455801E-001
143	9	-8.346203E-002	-4.341534E-003	-2.945127E-001	-1.532029E-001
144	1	-8.519865E-002	-1.407043E-003	-3.006122E-001	-4.964901E-002
144	2	-8.519847E-002	-1.552108E-003	-3.006133E-001	-5.476858E-002
144	3	-8.602881E-002	-1.552127E-003	-3.035693E-001	-5.477113E-002
144	4	-8.602845E-002	-1.407109E-003	-3.035687E-001	-4.965373E-002
144	5	-8.519874E-002	-1.479548E-003	-3.006118E-001	-5.220819E-002
144	6	-8.560978E-002	-1.552140E-003	-3.020912E-001	-5.476879E-002
144	7	-8.602786E-002	-1.479566E-003	-3.035685E-001	-5.221239E-002
144	8	-8.560978E-002	-1.407073E-003	-3.020912E-001	-4.965232E-002
144	9	-8.560978E-002	-1.479682E-003	-3.020912E-001	-5.221071E-002
145	1	-2.664933E-004	-8.992238E-006	-9.403837E-002	-3.173125E-002
145	2	-2.664896E-004	-8.922076E-006	-9.403836E-002	-3.148444E-002
145	3	-2.660975E-004	-8.923123E-006	-9.389843E-002	-3.148695E-002
145	4	-2.660961E-004	-8.991560E-006	-9.389722E-002	-3.172698E-002
145	5	-2.664945E-004	-8.957179E-006	-9.403824E-002	-3.160566E-002
145	6	-2.662941E-004	-8.923023E-006	-9.396819E-002	-3.148600E-002
145	7	-2.661002E-004	-8.956275E-006	-9.389680E-002	-3.160764E-002
145	8	-2.662972E-004	-8.992964E-006	-9.396710E-002	-3.172843E-002
145	9	-2.662950E-004	-8.957093E-006	-9.396730E-002	-3.160406E-002
146	1	-2.658372E-004	-2.603701E-005	-9.380524E-002	-9.187613E-002
146	2	-2.658361E-004	-2.606367E-005	-9.380677E-002	-9.196901E-002
146	3	-2.659857E-004	-2.606228E-005	-9.385797E-002	-9.196780E-002
146	4	-2.659862E-004	-2.603638E-005	-9.385826E-002	-9.187625E-002
146	5	-2.658335E-004	-2.605016E-005	-9.380535E-002	-9.191927E-002
146	6	-2.659894E-004	-2.606238E-005	-9.383187E-002	-9.196611E-002
146	7	-2.659833E-004	-2.604992E-005	-9.385804E-002	-9.192235E-002

146	8	-2.659105E-004	-2.603559E-005	-9.383121E-002	-9.187551E-002
146	9	-2.659100E-004	-2.604927E-005	-9.383139E-002	-9.192082E-002
147	1	-2.665679E-004	-4.198287E-005	-9.406507E-002	-1.481490E-001
147	2	-2.665686E-004	-4.265013E-005	-9.406304E-002	-1.504986E-001
147	3	-2.704149E-004	-4.264998E-005	-9.541959E-002	-1.504996E-001
147	4	-2.704223E-004	-4.198360E-005	-9.542439E-002	-1.481483E-001
147	5	-2.665671E-004	-4.231753E-005	-9.406418E-002	-1.493253E-001
147	6	-2.684886E-004	-4.265097E-005	-9.474180E-002	-1.505017E-001
147	7	-2.704125E-004	-4.231776E-005	-9.542186E-002	-1.493270E-001
147	8	-2.684932E-004	-4.198370E-005	-9.474374E-002	-1.481486E-001
147	9	-2.684906E-004	-4.231712E-005	-9.474248E-002	-1.493242E-001
148	1	-2.716334E-004	-5.793415E-005	-9.585065E-002	-2.044308E-001
148	2	-2.716140E-004	-5.895893E-005	-9.584489E-002	-2.080501E-001
148	3	-2.775253E-004	-5.895884E-005	-9.792892E-002	-2.080482E-001
148	4	-2.775389E-004	-5.793529E-005	-9.793418E-002	-2.044359E-001
148	5	-2.716306E-004	-5.844741E-005	-9.585008E-002	-2.062412E-001
148	6	-2.745676E-004	-5.895933E-005	-9.688752E-002	-2.080495E-001
148	7	-2.775273E-004	-5.844701E-005	-9.792999E-002	-2.062436E-001
148	8	-2.745856E-004	-5.793455E-005	-9.689260E-002	-2.044334E-001
148	9	-2.745778E-004	-5.844721E-005	-9.689102E-002	-2.062449E-001
149	1	-2.808216E-004	-7.219714E-005	-9.989583E-002	-2.547583E-001
149	2	-2.807850E-004	-7.531294E-005	-9.988038E-002	-2.657581E-001
149	3	-2.987869E-004	-7.531470E-005	-1.054340E-001	-2.657607E-001
149	4	-2.987910E-004	-7.219665E-005	-1.054342E-001	-2.547642E-001
149	5	-2.808075E-004	-7.375397E-005	-9.988959E-002	-2.602554E-001
149	6	-2.897896E-004	-7.531376E-005	-1.022568E-001	-2.657594E-001
149	7	-2.987905E-004	-7.375552E-005	-1.054349E-001	-2.602572E-001
149	8	-2.898891E-004	-7.219614E-005	-1.022648E-001	-2.547612E-001
149	9	-2.897987E-004	-7.375346E-005	-1.022621E-001	-2.602560E-001
150	1	-3.038320E-004	-8.867386E-005	-1.072150E-001	-3.128996E-001
150	2	-3.038294E-004	-9.156110E-005	-1.072119E-001	-3.230908E-001
150	3	-3.204904E-004	-9.156195E-005	-1.130909E-001	-3.230963E-001
150	4	-3.205250E-004	-8.867295E-005	-1.131024E-001	-3.129013E-001
150	5	-3.038378E-004	-9.011803E-005	-1.072140E-001	-3.179999E-001
150	6	-3.121594E-004	-9.156212E-005	-1.101524E-001	-3.230930E-001
150	7	-3.205090E-004	-9.011909E-005	-1.130966E-001	-3.180061E-001
150	8	-3.121811E-004	-8.867207E-005	-1.101591E-001	-3.128955E-001
150	9	-3.121695E-004	-9.011786E-005	-1.101552E-001	-3.180007E-001
151	1	-3.452686E-004	-1.065418E-004	-1.218359E-001	-3.759536E-001
151	2	-3.449571E-004	-1.334243E-004	-1.217256E-001	-4.708135E-001
151	3	-5.002209E-004	-1.334315E-004	-1.765132E-001	-4.708433E-001
151	4	-5.002579E-004	-1.065518E-004	-1.765261E-001	-3.759885E-001
151	5	-3.451113E-004	-1.199711E-004	-1.217799E-001	-4.233443E-001
151	6	-4.225940E-004	-1.334285E-004	-1.491201E-001	-4.708297E-001
151	7	-5.002482E-004	-1.199795E-004	-1.765211E-001	-4.233757E-001
151	8	-4.227649E-004	-1.065463E-004	-1.491823E-001	-3.759730E-001
151	9	-4.226813E-004	-1.199758E-004	-1.491518E-001	-4.233600E-001
152	1	-5.121711E-004	-1.071915E-004	-1.807385E-001	-3.782502E-001
152	2	-5.121883E-004	-9.453682E-005	-1.807369E-001	-3.335940E-001
152	3	-4.392334E-004	-9.453174E-005	-1.549911E-001	-3.335746E-001
152	4	-4.390842E-002	-1.071864E-002	-1.549391E-001	-3.782335E-001
152	5	-5.121846E-004	-1.080582E-004	-1.807338E-001	-3.558995E-001
152	6	-4.757896E-004	-9.453409E-005	-1.678638E-001	-3.335844E-001
152	7	-4.391620E-002	-1.080534E-002	-1.549654E-001	-3.558821E-001
152	8	-4.756262E-004	-1.071891E-004	-1.678352E-001	-3.782380E-001
152	9	-4.756688E-004	-1.080560E-004	-1.678495E-001	-3.558937E-001
153	1	-4.323360E-002	-9.802783E-003	-1.525583E-001	-3.459120E-001
153	2	-4.322861E-002	-1.025162E-002	-1.525394E-001	-3.617521E-001
153	3	-4.582065E-002	-1.025187E-002	-1.616872E-001	-3.617591E-001
153	4	-4.582144E-002	-9.802920E-003	-1.616915E-001	-3.459176E-001

153	5	-4.323142E-002	-1.002697E-002	-1.525500E-001	-3.538242E-001
153	6	-4.452446E-002	-1.025174E-002	-1.571147E-001	-3.617544E-001
153	7	-4.582167E-002	-1.002721E-002	-1.616898E-001	-3.538297E-001
153	8	-4.452721E-002	-9.802781E-003	-1.571247E-001	-3.459127E-001
153	9	-4.452604E-002	-1.002704E-002	-1.571202E-001	-3.538292E-001
154	1	-4.646121E-002	-1.001002E-002	-1.639509E-001	-3.532232E-001
154	2	-4.646133E-002	-1.032381E-002	-1.639487E-001	-3.642959E-001
154	3	-4.827858E-002	-1.032385E-002	-1.703327E-001	-3.642991E-001
154	4	-4.827348E-002	-1.001011E-002	-1.703456E-001	-3.532281E-001
154	5	-4.646897E-002	-1.016708E-002	-1.639501E-001	-3.587645E-001
154	6	-4.736539E-002	-1.032384E-002	-1.671399E-001	-3.642961E-001
154	7	-4.827236E-002	-1.016712E-002	-1.703380E-001	-3.587672E-001
154	8	-4.736780E-002	-1.001007E-002	-1.671478E-001	-3.532249E-001
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155	2	-4.898641E-002	-1.066380E-002	-1.728573E-001	-3.762955E-001
155	3	-5.212720E-002	-1.066407E-002	-1.839411E-001	-3.763036E-001
155	4	-5.212794E-002	-1.012017E-002	-1.839440E-001	-3.571096E-001
155	5	-5.054891E-002	-1.039165E-002	-1.728689E-001	-3.666897E-001
155	6	-5.055657E-002	-1.066401E-002	-1.783988E-001	-3.763008E-001
155	7	-5.212714E-002	-1.039184E-002	-1.839428E-001	-3.666966E-001
155	8	-5.056030E-002	-1.012000E-002	-1.784120E-001	-3.571062E-001
155	9	-5.055830E-002	-1.039173E-002	-1.784048E-001	-3.666932E-001
156	1	-5.311219E-002	-1.003629E-002	-1.874182E-001	-3.541502E-001
156	2	-5.311214E-002	-1.066650E-002	-1.874189E-001	-3.763880E-001
156	3	-5.674467E-002	-1.066678E-002	-2.002351E-001	-3.763990E-001
156	4	-5.674445E-002	-1.003650E-002	-2.002342E-001	-3.541603E-001
156	5	-5.311208E-002	-1.035136E-002	-1.874200E-001	-3.652690E-001
156	6	-5.492850E-002	-1.066657E-002	-1.938262E-001	-3.763917E-001
156	7	-5.674428E-002	-1.035161E-002	-2.002346E-001	-3.652805E-001
156	8	-5.492850E-002	-1.003639E-002	-1.938262E-001	-3.541524E-001
156	9	-5.492850E-002	-1.035149E-002	-1.938262E-001	-3.652738E-001
157	1	-5.787337E-002	-9.634760E-003	-2.042178E-001	-3.399841E-001
157	2	-5.787324E-002	-1.034895E-002	-2.042176E-001	-3.651857E-001
157	3	-6.199729E-002	-1.034908E-002	-2.187723E-001	-3.651890E-001
157	4	-6.199777E-002	-9.635074E-003	-2.187712E-001	-3.399902E-001
157	5	-5.787252E-002	-9.991808E-003	-2.042162E-001	-3.525828E-001
157	6	-5.993545E-002	-1.034899E-002	-2.114945E-001	-3.651867E-001
157	7	-6.199729E-002	-9.992052E-003	-2.187712E-001	-3.525911E-001
157	8	-5.993545E-002	-9.634987E-003	-2.114945E-001	-3.399902E-001
157	9	-5.993545E-002	-9.991989E-003	-2.114945E-001	-3.525847E-001
158	1	-6.322492E-002	-8.832201E-003	-2.231008E-001	-3.116631E-001
158	2	-6.322473E-002	-9.580351E-003	-2.231024E-001	-3.388605E-001
158	3	-6.753445E-002	-9.580649E-003	-2.383102E-001	-3.388725E-001
158	4	-6.753526E-002	-8.832597E-003	-2.383116E-001	-3.116761E-001
158	5	-6.322429E-002	-9.206234E-003	-2.231017E-001	-3.248658E-001
158	6	-6.537996E-002	-9.580437E-003	-2.307062E-001	-3.380653E-001
158	7	-6.753438E-002	-9.206660E-003	-2.383099E-001	-3.248731E-001
158	8	-6.537996E-002	-8.832459E-003	-2.307062E-001	-3.116725E-001
158	9	-6.537996E-002	-9.206462E-003	-2.307062E-001	-3.248675E-001
159	1	-6.875872E-002	-7.555377E-003	-2.426016E-001	-2.666892E-001
159	2	-6.875005E-002	-8.256692E-003	-2.425982E-001	-2.913553E-001
159	3	-7.279164E-002	-8.256932E-003	-2.568594E-001	-2.913639E-001
159	4	-7.279967E-002	-7.555678E-003	-2.568879E-001	-2.666196E-001
159	5	-6.875005E-002	-7.906363E-003	-2.425993E-001	-2.789928E-001
159	6	-7.077087E-002	-8.256815E-003	-2.497295E-001	-2.913597E-001
159	7	-7.279568E-002	-7.906621E-003	-2.568763E-001	-2.790007E-001
159	8	-7.077570E-002	-7.555592E-003	-2.497465E-001	-2.666115E-001
159	9	-7.077312E-002	-7.906492E-003	-2.497375E-001	-2.789973E-001
160	1	-7.388803E-002	-5.796689E-003	-2.607290E-001	-2.045464E-001

160	2	-7.380144E-002	-6.364208E-003	-2.607063E-001	-2.245739E-001
160	3	-7.715823E-002	-6.364367E-003	-2.722687E-001	-2.245810E-001
160	4	-7.715946E-002	-5.796815E-003	-2.722729E-001	-2.045540E-001
160	5	-7.380477E-002	-6.080214E-003	-2.607170E-001	-2.145502E-001
160	6	-7.552012E-002	-6.364244E-003	-2.664872E-001	-2.245757E-001
160	7	-7.715884E-002	-6.080370E-003	-2.722719E-001	-2.145564E-001
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161	1	-7.794153E-002	-3.643496E-003	-2.750326E-001	-1.285645E-001
161	2	-7.794137E-002	-4.009103E-003	-2.750338E-001	-1.414686E-001
161	3	-8.004797E-002	-4.009277E-003	-2.824655E-001	-1.414736E-001
161	4	-8.004836E-002	-3.643560E-003	-2.824668E-001	-1.285711E-001
161	5	-7.794172E-002	-3.826284E-003	-2.750323E-001	-1.350185E-001
161	6	-7.899468E-002	-4.009109E-003	-2.787491E-001	-1.414701E-001
161	7	-8.004817E-002	-3.826412E-003	-2.824671E-001	-1.350235E-001
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162	1	-8.045940E-002	-1.242794E-003	-2.839176E-001	-4.385295E-002
162	2	-8.045927E-002	-1.367469E-003	-2.839170E-001	-4.825456E-002
162	3	-8.117927E-002	-1.367530E-003	-2.864566E-001	-4.825614E-002
162	4	-8.117892E-002	-1.242816E-003	-2.864588E-001	-4.385484E-002
162	5	-8.045909E-002	-1.305184E-003	-2.839173E-001	-4.605540E-002
162	6	-8.081912E-002	-1.367496E-003	-2.851862E-001	-4.825605E-002
162	7	-8.117831E-002	-1.305138E-003	-2.864558E-001	-4.605812E-002
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163	1	-2.977154E-004	-9.401033E-006	-1.050532E-001	-3.317201E-002
163	2	-2.977115E-004	-9.054481E-006	-1.050540E-001	-3.195164E-002
163	3	-2.957111E-004	-9.053663E-006	-1.043485E-001	-3.194735E-002
163	4	-2.957106E-004	-9.401396E-006	-1.043481E-001	-3.317235E-002
163	5	-2.977148E-004	-9.228274E-006	-1.050545E-001	-3.256163E-002
163	6	-2.967114E-004	-9.054325E-006	-1.047009E-001	-3.194878E-002
163	7	-2.957125E-004	-9.227834E-006	-1.043483E-001	-3.256275E-002
163	8	-2.967087E-004	-9.401515E-006	-1.047007E-001	-3.317599E-002
163	9	-2.967127E-004	-9.228287E-006	-1.047004E-001	-3.256376E-002
164	1	-2.952180E-004	-2.630590E-005	-1.041741E-001	-9.282797E-002
164	2	-2.952197E-004	-2.606959E-005	-1.041739E-001	-9.199252E-002
164	3	-2.938500E-004	-2.606902E-005	-1.036933E-001	-9.198961E-002
164	4	-2.938470E-004	-2.630675E-005	-1.036908E-001	-9.282698E-002
164	5	-2.952177E-004	-2.618774E-005	-1.041742E-001	-9.240801E-002
164	6	-2.945371E-004	-2.606928E-005	-1.039339E-001	-9.199336E-002
164	7	-2.938481E-004	-2.618710E-005	-1.036910E-001	-9.241011E-002
164	8	-2.945350E-004	-2.630633E-005	-1.039328E-001	-9.282938E-002
164	9	-2.945360E-004	-2.618776E-005	-1.039324E-001	-9.240968E-002
165	1	-2.937523E-004	-4.147620E-005	-1.036572E-001	-1.463553E-001
165	2	-2.937482E-004	-4.183477E-005	-1.036560E-001	-1.476231E-001
165	3	-2.958240E-004	-4.183576E-005	-1.043895E-001	-1.476235E-001
165	4	-2.958277E-004	-4.147632E-005	-1.043894E-001	-1.463569E-001
165	5	-2.937509E-004	-4.165556E-005	-1.036569E-001	-1.469900E-001
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165	7	-2.958307E-004	-4.165574E-005	-1.043884E-001	-1.469925E-001
165	8	-2.947934E-004	-4.147563E-005	-1.040232E-001	-1.463574E-001
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166	1	-2.979369E-004	-5.532023E-005	-1.051341E-001	-1.952058E-001
166	2	-2.979367E-004	-5.747412E-005	-1.051341E-001	-2.028189E-001
166	3	-3.103526E-004	-5.747484E-005	-1.095144E-001	-2.028186E-001
166	4	-3.103537E-004	-5.532212E-005	-1.095157E-001	-1.952161E-001
166	5	-2.979361E-004	-5.639682E-005	-1.051340E-001	-1.990099E-001
166	6	-3.041466E-004	-5.747426E-005	-1.073244E-001	-2.028097E-001
166	7	-3.103545E-004	-5.639838E-005	-1.095150E-001	-1.990130E-001

166	8	-3.041466E-004	-5.532087E-005	-1.073244E-001	-1.952122E-001
166	9	-3.041466E-004	-5.639767E-005	-1.073244E-001	-1.990095E-001
167	1	-3.106783E-004	-7.376132E-005	-1.096297E-001	-2.602788E-001
167	2	-3.106831E-004	-7.200235E-005	-1.096309E-001	-2.540759E-001
167	3	-3.085147E-004	-7.200128E-005	-1.060434E-001	-2.540706E-001
167	4	-3.085141E-004	-7.375986E-005	-1.060434E-001	-2.602823E-001
167	5	-3.106810E-004	-7.288196E-005	-1.096305E-001	-2.571765E-001
167	6	-3.055955E-004	-7.200143E-005	-1.078362E-001	-2.540729E-001
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167	8	-3.055955E-004	-7.376181E-005	-1.078362E-001	-2.602786E-001
167	9	-3.055955E-004	-7.288152E-005	-1.078362E-001	-2.571794E-001
168	1	-3.134798E-004	-6.852501E-005	-1.106170E-001	-2.418093E-001
168	2	-3.134756E-004	-8.574539E-005	-1.106172E-001	-3.025728E-001
168	3	-4.127437E-004	-8.575212E-005	-1.456449E-001	-3.025941E-001
168	4	-4.127422E-004	-6.853188E-005	-1.456445E-001	-2.418305E-001
168	5	-3.134721E-004	-7.713670E-005	-1.106156E-001	-2.721897E-001
168	6	-3.631086E-004	-8.574957E-005	-1.281308E-001	-3.025865E-001
168	7	-4.127411E-004	-7.714192E-005	-1.456456E-001	-2.722124E-001
168	8	-3.631086E-004	-6.852891E-005	-1.281308E-001	-2.418107E-001
168	9	-3.631086E-004	-7.713908E-005	-1.281308E-001	-2.722030E-001
169	1	-4.203913E-004	-1.118994E-004	-1.483431E-001	-3.948607E-001
169	2	-4.203922E-004	-1.038185E-004	-1.483441E-001	-3.663464E-001
169	3	-3.737075E-004	-1.038161E-004	-1.318704E-001	-3.663354E-001
169	4	-3.737030E-004	-1.118962E-004	-1.318693E-001	-3.948495E-001
169	5	-4.203881E-004	-1.078591E-004	-1.483428E-001	-3.806050E-001
169	6	-3.970461E-004	-1.038174E-004	-1.401061E-001	-3.663432E-001
169	7	-3.737010E-004	-1.078572E-004	-1.318693E-001	-3.805928E-001
169	8	-3.970461E-004	-1.118993E-004	-1.401061E-001	-3.948565E-001
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170	1	-3.759651E-004	-9.665824E-005	-1.326671E-001	-3.410018E-001
170	2	-3.759665E-004	-1.074563E-004	-1.326663E-001	-3.791803E-001
170	3	-4.382009E-002	-1.074609E-002	-1.546293E-001	-3.792002E-001
170	4	-4.382091E-002	-9.666237E-003	-1.546283E-001	-3.410957E-001
170	5	-3.759674E-004	-1.020571E-004	-1.326679E-001	-3.601284E-001
170	6	-4.070854E-004	-1.074586E-004	-1.436404E-001	-3.791912E-001
170	7	-4.382021E-002	-1.020619E-002	-1.546298E-001	-3.601444E-001
170	8	-4.070859E-002	-9.665854E-003	-1.436404E-001	-3.410837E-001
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171	1	-4.487337E-002	-9.536739E-003	-1.583443E-001	-3.365239E-001
171	2	-4.487314E-002	-9.712136E-003	-1.583434E-001	-3.427132E-001
171	3	-4.588474E-002	-9.712290E-003	-1.619131E-001	-3.427161E-001
171	4	-4.588673E-002	-9.536862E-003	-1.619211E-001	-3.365257E-001
171	5	-4.487263E-002	-9.624572E-003	-1.583448E-001	-3.396216E-001
171	6	-4.537910E-002	-9.712305E-003	-1.601284E-001	-3.427146E-001
171	7	-4.588536E-002	-9.624588E-003	-1.619153E-001	-3.396246E-001
171	8	-4.538016E-002	-9.536800E-003	-1.601328E-001	-3.365231E-001
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172	1	-4.635632E-002	-9.523681E-003	-1.635797E-001	-3.360655E-001
172	2	-4.635210E-002	-9.908119E-003	-1.635630E-001	-3.496289E-001
172	3	-4.857227E-002	-9.908311E-003	-1.713973E-001	-3.496365E-001
172	4	-4.857307E-002	-9.523916E-003	-1.713997E-001	-3.360719E-001
172	5	-4.635451E-002	-9.715768E-003	-1.635721E-001	-3.428443E-001
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172	9	-4.746351E-002	-9.715046E-003	-1.674858E-001	-3.428446E-001
173	1	-4.929116E-002	-9.502077E-003	-1.739338E-001	-3.352990E-001
173	2	-4.929017E-002	-9.972591E-003	-1.739380E-001	-3.519036E-001
173	3	-5.200271E-002	-9.972863E-003	-1.835014E-001	-3.519112E-001
173	4	-5.200796E-002	-9.502247E-003	-1.835204E-001	-3.353044E-001

173	5	-4.929011E-002	-9.737529E-003	-1.739307E-001	-3.436068E-001
173	6	-5.064667E-002	-9.972790E-003	-1.787167E-001	-3.519064E-001
173	7	-5.200490E-002	-9.737675E-003	-1.835115E-001	-3.436151E-001
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174	1	-5.287904E-002	-9.298447E-003	-1.865964E-001	-3.281139E-001
174	2	-5.287230E-002	-9.862254E-003	-1.865715E-001	-3.480101E-001
174	3	-5.612963E-002	-9.862501E-003	-1.980633E-001	-3.480205E-001
174	4	-5.612996E-002	-9.298488E-003	-1.980677E-001	-3.281184E-001
174	5	-5.287614E-002	-9.580078E-003	-1.865838E-001	-3.380520E-001
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174	7	-5.612941E-002	-9.580233E-003	-1.980662E-001	-3.380594E-001
174	8	-5.450442E-002	-9.298467E-003	-1.923304E-001	-3.281140E-001
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175	1	-5.712378E-002	-8.821283E-003	-2.015720E-001	-3.112740E-001
175	2	-5.712305E-002	-9.440889E-003	-2.015698E-001	-3.331397E-001
175	3	-6.069285E-002	-9.441152E-003	-2.141699E-001	-3.331496E-001
175	4	-6.070077E-002	-8.821580E-003	-2.141937E-001	-3.112923E-001
175	5	-5.712307E-002	-9.131353E-003	-2.015720E-001	-3.222168E-001
175	6	-5.898816E-002	-9.440987E-003	-2.078693E-001	-3.331447E-001
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176	2	-6.175719E-002	-8.630768E-003	-2.179210E-001	-3.045551E-001
176	3	-6.542280E-002	-8.631080E-003	-2.308576E-001	-3.045648E-001
176	4	-6.542336E-002	-7.996223E-003	-2.308601E-001	-2.821656E-001
176	5	-6.176037E-002	-8.313109E-003	-2.179355E-001	-2.933438E-001
176	6	-6.358931E-002	-8.630891E-003	-2.243885E-001	-3.045599E-001
176	7	-6.542288E-002	-8.313332E-003	-2.308586E-001	-2.933538E-001
176	8	-6.359392E-002	-7.996033E-003	-2.244040E-001	-2.821568E-001
176	9	-6.359156E-002	-8.313205E-003	-2.243960E-001	-2.933478E-001
177	1	-6.644988E-002	-6.777189E-003	-2.344838E-001	-2.391449E-001
177	2	-6.645018E-002	-7.367184E-003	-2.344828E-001	-2.599645E-001
177	3	-6.985821E-002	-7.367419E-003	-2.464814E-001	-2.599731E-001
177	4	-6.985853E-002	-6.777346E-003	-2.464819E-001	-2.391534E-001
177	5	-6.645029E-002	-7.072138E-003	-2.344841E-001	-2.495548E-001
177	6	-6.815048E-002	-7.367339E-003	-2.404831E-001	-2.599696E-001
177	7	-6.985062E-002	-7.072424E-003	-2.464810E-001	-2.495633E-001
177	8	-6.815048E-002	-6.777267E-003	-2.404831E-001	-2.391471E-001
177	9	-6.815048E-002	-7.072281E-003	-2.404831E-001	-2.495581E-001
178	1	-7.074569E-002	-5.168241E-003	-2.496410E-001	-1.823709E-001
178	2	-7.074561E-002	-5.644721E-003	-2.496404E-001	-1.991864E-001
178	3	-7.349753E-002	-5.644898E-003	-2.593499E-001	-1.991909E-001
178	4	-7.349793E-002	-5.168485E-003	-2.593506E-001	-1.823820E-001
178	5	-7.074568E-002	-5.406496E-003	-2.496407E-001	-1.907774E-001
178	6	-7.212130E-002	-5.644751E-003	-2.544952E-001	-1.991839E-001
178	7	-7.349680E-002	-5.406654E-003	-2.593478E-001	-1.907865E-001
178	8	-7.212130E-002	-5.168299E-003	-2.544952E-001	-1.823774E-001
178	9	-7.212130E-002	-5.406518E-003	-2.544952E-001	-1.907821E-001
179	1	-7.415580E-002	-3.237006E-003	-2.616741E-001	-1.142246E-001
179	2	-7.415563E-002	-3.545142E-003	-2.616737E-001	-1.250987E-001
179	3	-7.593146E-002	-3.545349E-003	-2.679389E-001	-1.251022E-001
179	4	-7.593141E-002	-3.237084E-003	-2.679384E-001	-1.142297E-001
179	5	-7.415602E-002	-3.391133E-003	-2.616739E-001	-1.196604E-001
179	6	-7.504348E-002	-3.545217E-003	-2.648069E-001	-1.251087E-001
179	7	-7.593120E-002	-3.391182E-003	-2.679386E-001	-1.196647E-001
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179	9	-7.504348E-002	-3.391177E-003	-2.648069E-001	-1.196612E-001
180	1	-7.627876E-002	-1.102131E-003	-2.691655E-001	-3.888971E-002

180	2	-7.627921E-002	-1.208902E-003	-2.691669E-001	-4.265973E-002
180	3	-7.689555E-002	-1.208932E-003	-2.713405E-001	-4.266148E-002
180	4	-7.689515E-002	-1.102174E-003	-2.713418E-001	-3.889226E-002
180	5	-7.627047E-002	-1.155514E-003	-2.691653E-001	-4.077331E-002
180	6	-7.658717E-002	-1.208828E-003	-2.702531E-001	-4.265776E-002
180	7	-7.689587E-002	-1.155565E-003	-2.713396E-001	-4.077528E-002
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181	1	-3.313773E-004	-1.063145E-005	-1.169331E-001	-3.751326E-002
181	2	-3.313749E-004	-9.604068E-006	-1.169332E-001	-3.388937E-002
181	3	-3.254574E-004	-9.603700E-006	-1.148448E-001	-3.388817E-002
181	4	-3.254442E-004	-1.062911E-005	-1.148401E-001	-3.750698E-002
181	5	-3.313812E-004	-1.011789E-005	-1.169349E-001	-3.569856E-002
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181	9	-3.284165E-004	-1.011655E-005	-1.158882E-001	-3.569812E-002
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182	2	-3.237120E-004	-2.645844E-005	-1.142276E-001	-9.336302E-002
182	3	-3.191222E-004	-2.645877E-005	-1.126075E-001	-9.336387E-002
182	4	-3.191186E-004	-2.725278E-005	-1.126069E-001	-9.616548E-002
182	5	-3.237039E-004	-2.685568E-005	-1.142260E-001	-9.476893E-002
182	6	-3.214153E-004	-2.645901E-005	-1.134176E-001	-9.336662E-002
182	7	-3.191191E-004	-2.685584E-005	-1.126071E-001	-9.476727E-002
182	8	-3.214065E-004	-2.725326E-005	-1.134163E-001	-9.616751E-002
182	9	-3.214106E-004	-2.685599E-005	-1.134164E-001	-9.476889E-002
183	1	-3.189380E-004	-4.077657E-005	-1.125397E-001	-1.438929E-001
183	2	-3.189236E-004	-4.134336E-005	-1.125384E-001	-1.458859E-001
183	3	-3.221938E-004	-4.134336E-005	-1.136922E-001	-1.458910E-001
183	4	-3.221943E-004	-4.077663E-005	-1.136932E-001	-1.438985E-001
183	5	-3.189384E-004	-4.106014E-005	-1.125393E-001	-1.448981E-001
183	6	-3.205579E-004	-4.134318E-005	-1.131150E-001	-1.458862E-001
183	7	-3.221931E-004	-4.106061E-005	-1.136916E-001	-1.448871E-001
183	8	-3.205689E-004	-4.077720E-005	-1.131166E-001	-1.438891E-001
183	9	-3.205681E-004	-4.105991E-005	-1.131160E-001	-1.448889E-001
184	1	-3.229619E-004	-5.437480E-005	-1.139632E-001	-1.918719E-001
184	2	-3.229550E-004	-5.492848E-005	-1.139603E-001	-1.938257E-001
184	3	-3.261511E-004	-5.492858E-005	-1.150883E-001	-1.938267E-001
184	4	-3.261509E-004	-5.437529E-005	-1.150887E-001	-1.918751E-001
184	5	-3.229548E-004	-5.465230E-005	-1.139625E-001	-1.928504E-001
184	6	-3.245512E-004	-5.492888E-005	-1.145243E-001	-1.938284E-001
184	7	-3.261502E-004	-5.465179E-005	-1.150894E-001	-1.928524E-001
184	8	-3.245524E-004	-5.437628E-005	-1.145252E-001	-1.918728E-001
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185	1	-3.334050E-004	-6.476254E-005	-1.176490E-001	-2.285253E-001
185	2	-3.333921E-004	-7.284633E-005	-1.176446E-001	-2.570518E-001
185	3	-3.799983E-004	-7.285013E-005	-1.340897E-001	-2.570668E-001
185	4	-3.800952E-004	-6.476660E-005	-1.341231E-001	-2.285441E-001
185	5	-3.333974E-004	-6.880024E-005	-1.176464E-001	-2.428024E-001
185	6	-3.566972E-004	-7.284676E-005	-1.258679E-001	-2.570575E-001
185	7	-3.800444E-004	-6.881154E-005	-1.341052E-001	-2.428176E-001
185	8	-3.567466E-004	-6.476440E-005	-1.258864E-001	-2.285385E-001
185	9	-3.567242E-004	-6.880989E-005	-1.258777E-001	-2.428115E-001
186	1	-3.562814E-004	-1.078656E-004	-1.257203E-001	-3.778060E-001
186	2	-3.566964E-004	-7.124573E-005	-1.258603E-001	-2.514054E-001
186	3	-1.498046E-004	-7.123053E-005	-5.285140E-002	-2.513523E-001
186	4	-1.497492E-004	-1.070491E-004	-5.284224E-002	-3.777474E-001
186	5	-3.564880E-004	-8.917158E-005	-1.257922E-001	-3.146596E-001
186	6	-2.532480E-004	-7.123033E-005	-8.936373E-002	-2.513784E-001
186	7	-1.497760E-004	-8.915621E-005	-5.285267E-002	-3.146045E-001

186	8	-2.530134E-004	-1.070504E-004	-8.928031E-002	-3.777779E-001
186	9	-2.531305E-004	-8.916421E-005	-8.932247E-002	-3.146346E-001
187	1	-1.520275E-004	-6.900422E-005	-5.364633E-002	-2.434925E-001
187	2	-1.519729E-004	-1.074672E-004	-5.362627E-002	-3.792194E-001
187	3	-3.737425E-004	-1.074870E-004	-1.318830E-001	-3.792910E-001
187	4	-3.887998E-002	-7.171866E-003	-1.320402E-001	-2.435612E-001
187	5	-1.519989E-004	-8.825222E-005	-5.363729E-002	-3.114172E-001
187	6	-2.620529E-004	-1.074778E-004	-9.275259E-002	-3.792548E-001
187	7	-3.739606E-004	-8.827132E-005	-1.319590E-001	-3.114878E-001
187	8	-2.631041E-004	-6.901446E-005	-9.284218E-002	-2.435312E-001
187	9	-2.629775E-004	-8.826293E-005	-9.279688E-002	-3.114529E-001
188	1	-4.099597E-002	-8.999457E-003	-1.446628E-001	-3.175658E-001
188	2	-4.099129E-004	-9.444104E-005	-1.446458E-001	-3.332554E-001
188	3	-4.355990E-002	-9.444383E-003	-1.537102E-001	-3.332609E-001
188	4	-4.356019E-002	-8.999599E-003	-1.537114E-001	-3.175701E-001
188	5	-4.099358E-002	-9.221490E-003	-1.446570E-001	-3.253991E-001
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188	7	-4.356040E-002	-9.221747E-003	-1.537091E-001	-3.254096E-001
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189	1	-4.419149E-002	-9.158936E-003	-1.559383E-001	-3.231929E-001
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189	3	-4.596272E-002	-9.466544E-003	-1.621899E-001	-3.340452E-001
189	4	-4.596318E-002	-9.158993E-003	-1.621903E-001	-3.231902E-001
189	5	-4.419179E-002	-9.312672E-003	-1.559401E-001	-3.286142E-001
189	6	-4.507742E-002	-9.466504E-003	-1.590648E-001	-3.340437E-001
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190	1	-4.651680E-002	-9.864994E-003	-1.641444E-001	-3.198740E-001
190	2	-4.651682E-002	-9.416692E-003	-1.641435E-001	-3.322878E-001
190	3	-4.854860E-002	-9.416989E-003	-1.713145E-001	-3.322960E-001
190	4	-4.854865E-002	-9.865242E-003	-1.713140E-001	-3.198829E-001
190	5	-4.651689E-002	-9.240820E-003	-1.641437E-001	-3.260821E-001
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191	1	-4.920731E-002	-8.937249E-003	-1.736390E-001	-3.153702E-001
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191	3	-5.178326E-002	-9.370569E-003	-1.824461E-001	-3.306591E-001
191	4	-5.178343E-002	-8.937448E-003	-1.824460E-001	-3.153785E-001
191	5	-4.920709E-002	-9.153843E-003	-1.736375E-001	-3.230134E-001
191	6	-5.045554E-002	-9.370377E-003	-1.780427E-001	-3.306545E-001
191	7	-5.170305E-002	-9.153994E-003	-1.824445E-001	-3.230167E-001
191	8	-5.045554E-002	-8.937408E-003	-1.780427E-001	-3.153753E-001
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192	3	-5.536601E-002	-9.144009E-003	-1.953714E-001	-3.226674E-001
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192	5	-5.248559E-002	-8.894525E-003	-1.852052E-001	-3.138615E-001
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193	5	-5.623704E-002	-8.382390E-003	-1.984474E-001	-2.957077E-001
193	6	-5.779380E-002	-8.652505E-003	-2.039371E-001	-3.053216E-001
193	7	-5.934927E-002	-8.382628E-003	-2.094278E-001	-2.957960E-001
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194	1	-6.025898E-002	-7.281053E-003	-2.126363E-001	-2.569258E-001
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195	1	-6.427199E-002	-6.128640E-003	-2.267981E-001	-2.159757E-001
195	2	-6.427275E-002	-6.618671E-003	-2.267971E-001	-2.335558E-001
195	3	-6.714221E-002	-6.618898E-003	-2.369262E-001	-2.335613E-001
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195	5	-6.427186E-002	-6.369640E-003	-2.267984E-001	-2.247644E-001
195	6	-6.570759E-002	-6.618734E-003	-2.318618E-001	-2.335539E-001
195	7	-6.714213E-002	-6.369811E-003	-2.369240E-001	-2.247746E-001
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196	1	-6.789654E-002	-4.639817E-003	-2.395875E-001	-1.637260E-001
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196	3	-7.020994E-002	-5.040403E-003	-2.477489E-001	-1.778627E-001
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197	2	-7.076433E-002	-3.153988E-003	-2.497081E-001	-1.112947E-001
197	3	-7.226740E-002	-3.154142E-003	-2.550117E-001	-1.112993E-001
197	4	-7.226780E-002	-2.893316E-003	-2.550113E-001	-1.020978E-001
197	5	-7.076518E-002	-3.023580E-003	-2.497082E-001	-1.066954E-001
197	6	-7.151613E-002	-3.154072E-003	-2.523590E-001	-1.112963E-001
197	7	-7.226709E-002	-3.023682E-003	-2.550115E-001	-1.066989E-001
197	8	-7.151613E-002	-2.893225E-003	-2.523590E-001	-1.020943E-001
197	9	-7.151613E-002	-3.023634E-003	-2.523590E-001	-1.066943E-001
198	1	-7.256376E-002	-9.884565E-004	-2.560565E-001	-3.459780E-002
198	2	-7.256377E-002	-1.072976E-003	-2.560562E-001	-3.786144E-002
198	3	-7.389779E-002	-1.072912E-003	-2.579417E-001	-3.785985E-002
198	4	-7.389794E-002	-9.885028E-004	-2.579412E-001	-3.459920E-002
198	5	-7.256397E-002	-1.026685E-003	-2.560563E-001	-3.622924E-002
198	6	-7.283060E-002	-1.073049E-003	-2.569986E-001	-3.786350E-002
198	7	-7.389786E-002	-1.026752E-003	-2.579398E-001	-3.622966E-002
198	8	-7.283060E-002	-9.884498E-004	-2.569986E-001	-3.459755E-002
198	9	-7.283060E-002	-1.026689E-003	-2.569986E-001	-3.622985E-002
199	1	-3.753530E-004	-1.552893E-005	-1.324511E-001	-5.476588E-002
199	2	-3.753982E-004	-1.138665E-005	-1.324683E-001	-4.018085E-002
199	3	-3.515198E-004	-1.138477E-005	-1.240405E-001	-4.017366E-002
199	4	-3.515143E-004	-1.551945E-005	-1.240381E-001	-5.475915E-002
199	5	-3.753752E-004	-1.345638E-005	-1.324595E-001	-4.748121E-002
199	6	-3.634586E-004	-1.138503E-005	-1.282545E-001	-4.017566E-002
199	7	-3.515163E-004	-1.345282E-005	-1.240402E-001	-4.747535E-002
199	8	-3.634361E-004	-1.552888E-005	-1.282445E-001	-5.476376E-002
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200	2	-3.474754E-004	-2.746965E-005	-1.226131E-001	-9.693072E-002
200	3	-3.435485E-004	-2.746874E-005	-1.212288E-001	-9.692748E-002
200	4	-3.435438E-004	-2.814960E-005	-1.212255E-001	-9.933012E-002
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200	6	-3.455895E-004	-2.746919E-005	-1.219212E-001	-9.692965E-002
200	7	-3.435436E-004	-2.780918E-005	-1.212272E-001	-9.813134E-002
200	8	-3.455085E-004	-2.814977E-005	-1.219193E-001	-9.933415E-002
200	9	-3.455114E-004	-2.780857E-005	-1.219209E-001	-9.812927E-002
201	1	-3.426685E-004	-4.087584E-005	-1.209185E-001	-1.442404E-001
201	2	-3.426734E-004	-4.071848E-005	-1.209200E-001	-1.436861E-001
201	3	-3.417710E-004	-4.071914E-005	-1.206021E-001	-1.436855E-001
201	4	-3.417714E-004	-4.087526E-005	-1.206001E-001	-1.442363E-001
201	5	-3.426744E-004	-4.079803E-005	-1.209197E-001	-1.439588E-001
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201	8	-3.422236E-004	-4.087448E-005	-1.207599E-001	-1.442333E-001
201	9	-3.422220E-004	-4.079664E-005	-1.207603E-001	-1.439599E-001
202	1	-3.438406E-004	-5.129829E-005	-1.213314E-001	-1.810173E-001
202	2	-3.438383E-004	-5.391724E-005	-1.213306E-001	-1.902569E-001
202	3	-3.589326E-004	-5.391765E-005	-1.266570E-001	-1.902606E-001
202	4	-3.589661E-004	-5.130038E-005	-1.266673E-001	-1.810249E-001
202	5	-3.438338E-004	-5.260885E-005	-1.213294E-001	-1.856400E-001
202	6	-3.513834E-004	-5.391657E-005	-1.239925E-001	-1.902571E-001
202	7	-3.589446E-004	-5.260943E-005	-1.266620E-001	-1.856460E-001
202	8	-3.513972E-004	-5.129950E-005	-1.239992E-001	-1.810218E-001
202	9	-3.513919E-004	-5.260908E-005	-1.239955E-001	-1.856424E-001
203	1	-3.599431E-004	-6.500255E-005	-1.270133E-001	-2.293723E-001
203	2	-3.599611E-004	-6.376736E-005	-1.270186E-001	-2.250154E-001
203	3	-3.528243E-004	-6.376662E-005	-1.245009E-001	-2.250125E-001
203	4	-3.528250E-004	-6.500198E-005	-1.245006E-001	-2.293719E-001
203	5	-3.599497E-004	-6.438546E-005	-1.270168E-001	-2.271962E-001
203	6	-3.563926E-004	-6.376708E-005	-1.257600E-001	-2.250166E-001
203	7	-3.528257E-004	-6.438437E-005	-1.245022E-001	-2.271930E-001
203	8	-3.563857E-004	-6.500227E-005	-1.257573E-001	-2.293740E-001
203	9	-3.563898E-004	-6.438538E-005	-1.257592E-001	-2.271956E-001
204	1	-3.759218E-004	-7.938208E-005	-1.326505E-001	-2.801131E-001
204	2	-3.758803E-004	-1.081001E-004	-1.326362E-001	-3.814510E-001
204	3	-5.414463E-004	-1.081131E-004	-1.910613E-001	-3.814975E-001
204	4	-5.417856E-004	-7.939731E-005	-1.911889E-001	-2.801695E-001
204	5	-3.759862E-004	-9.375328E-005	-1.326449E-001	-3.308299E-001
204	6	-4.586685E-004	-1.081057E-004	-1.618502E-001	-3.814733E-001
204	7	-5.416222E-004	-9.376770E-005	-1.911218E-001	-3.308792E-001
204	8	-4.588563E-004	-7.939063E-005	-1.619168E-001	-2.801394E-001
204	9	-4.587611E-004	-9.376002E-005	-1.618836E-001	-3.308517E-001
205	1	-5.495659E-004	-8.565174E-005	-1.939265E-001	-3.022438E-001
205	2	-5.497924E-004	-6.625790E-005	-1.940062E-001	-2.338043E-001
205	3	-4.377698E-002	-6.624722E-003	-1.544770E-001	-2.337705E-001
205	4	-4.377424E-002	-8.564216E-003	-1.544674E-001	-3.022103E-001
205	5	-5.496777E-004	-7.596373E-005	-1.939648E-001	-2.680531E-001
205	6	-4.937008E-004	-6.625280E-005	-1.742409E-001	-2.337850E-001
205	7	-4.377627E-002	-7.595352E-003	-1.544737E-001	-2.680182E-001
205	8	-2.115461E-002	-3.670199E-003	-1.741962E-001	-3.022251E-001
205	9	-4.937173E-004	-7.595887E-005	-1.742190E-001	-2.680334E-001
206	1	-4.230652E-002	-8.718772E-003	-1.492869E-001	-3.076628E-001
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206	3	-4.339310E-002	-8.987630E-003	-1.531207E-001	-3.143232E-001
206	4	-4.339528E-002	-8.719013E-003	-1.531288E-001	-3.076680E-001
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207	1	-4.384498E-002	-8.716165E-003	-1.547169E-001	-3.075766E-001
207	2	-4.384185E-002	-9.063490E-003	-1.547006E-001	-3.198259E-001
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207	4	-4.584755E-002	-8.716415E-003	-1.617831E-001	-3.075767E-001
207	5	-4.384363E-002	-8.889731E-003	-1.547116E-001	-3.136935E-001
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208	1	-4.642015E-002	-8.630274E-003	-1.638035E-001	-3.045403E-001
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209	8	-5.010481E-002	-8.422781E-003	-1.768050E-001	-2.972135E-001
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211	3	-5.797916E-002	-7.965528E-003	-2.045914E-001	-2.810804E-001
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211	5	-5.526862E-002	-7.730211E-003	-1.950262E-001	-2.727743E-001
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212	2	-5.876504E-002	-7.133957E-003	-2.073644E-001	-2.517385E-001
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213	2	-6.220481E-002	-5.986542E-003	-2.195044E-001	-2.112429E-001
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213	4	-6.464174E-002	-5.563697E-003	-2.281014E-001	-1.963288E-001

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215	1	-6.770514E-002	-2.604106E-003	-2.389119E-001	-9.189440E-002
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215	3	-6.896677E-002	-2.823255E-003	-2.433640E-001	-9.962367E-002
215	4	-6.896681E-002	-2.604275E-003	-2.433638E-001	-9.189982E-002
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216	1	-6.922520E-002	-8.645384E-004	-2.442745E-001	-3.850838E-002
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216	6	-6.948293E-002	-9.537084E-004	-2.451848E-001	-3.365452E-002
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216	9	-6.948293E-002	-9.091293E-004	-2.451848E-001	-3.208065E-002
217	1	-3.958770E-004	-2.036034E-005	-1.396942E-001	-7.184481E-002
217	2	-3.976497E-004	-1.666348E-005	-1.403201E-001	-5.880212E-002
217	3	-3.768638E-004	-1.666146E-005	-1.329834E-001	-5.879286E-002
217	4	-3.751622E-004	-2.035908E-005	-1.323835E-001	-7.184282E-002
217	5	-3.967619E-004	-1.851512E-005	-1.400060E-001	-6.533278E-002
217	6	-3.872611E-004	-1.666257E-005	-1.366531E-001	-5.879495E-002
217	7	-3.760113E-004	-1.851265E-005	-1.326827E-001	-6.532878E-002
217	8	-3.855245E-004	-2.035987E-005	-1.360401E-001	-7.184572E-002
217	9	-3.863889E-004	-1.851388E-005	-1.363456E-001	-6.533202E-002
218	1	-3.678762E-004	-2.881915E-005	-1.298124E-001	-1.016942E-001
218	2	-3.681022E-004	-2.832339E-005	-1.298920E-001	-9.994582E-002
218	3	-3.653132E-004	-2.832333E-005	-1.289869E-001	-9.994667E-002
218	4	-3.650985E-004	-2.881990E-005	-1.288320E-001	-1.016964E-001
218	5	-3.679872E-004	-2.857196E-005	-1.298520E-001	-1.008233E-001
218	6	-3.667854E-004	-2.832282E-005	-1.293994E-001	-9.994419E-002
218	7	-3.652069E-004	-2.857205E-005	-1.288709E-001	-1.008234E-001
218	8	-3.664891E-004	-2.881937E-005	-1.293236E-001	-1.016991E-001
218	9	-3.665960E-004	-2.857185E-005	-1.293608E-001	-1.008250E-001
219	1	-3.618938E-004	-3.889904E-005	-1.277025E-001	-1.372670E-001
219	2	-3.611620E-004	-4.064619E-005	-1.274438E-001	-1.434258E-001
219	3	-3.709647E-004	-4.064628E-005	-1.309018E-001	-1.434281E-001
219	4	-3.716810E-004	-3.889939E-005	-1.311549E-001	-1.372667E-001
219	5	-3.615248E-004	-3.977034E-005	-1.275714E-001	-1.403400E-001
219	6	-3.660628E-004	-4.064515E-005	-1.291733E-001	-1.434286E-001
219	7	-3.713245E-004	-3.977149E-005	-1.310302E-001	-1.403446E-001
219	8	-3.667799E-004	-3.889922E-005	-1.294267E-001	-1.372672E-001
219	9	-3.664254E-004	-3.977192E-005	-1.293010E-001	-1.403449E-001
220	1	-3.654359E-004	-5.340902E-005	-1.289513E-001	-1.884646E-001

220	2	-3.663011E-004	-5.123736E-005	-1.292580E-001	-1.888016E-001
220	3	-3.540894E-004	-5.123590E-005	-1.249462E-001	-1.887957E-001
220	4	-3.532733E-004	-5.340911E-005	-1.246611E-001	-1.884620E-001
220	5	-3.658635E-004	-5.232637E-005	-1.291042E-001	-1.846445E-001
220	6	-3.681942E-004	-5.123634E-005	-1.271028E-001	-1.887979E-001
220	7	-3.536797E-004	-5.232518E-005	-1.240830E-001	-1.846393E-001
220	8	-3.593520E-004	-5.340783E-005	-1.268057E-001	-1.884652E-001
220	9	-3.597769E-004	-5.232570E-005	-1.269533E-001	-1.846426E-001
221	1	-3.656281E-004	-4.889782E-005	-1.290194E-001	-1.697223E-001
221	2	-3.681776E-004	-6.300357E-005	-1.270945E-001	-2.223202E-001
221	3	-4.440738E-004	-6.301287E-005	-1.566993E-001	-2.223514E-001
221	4	-4.492346E-004	-4.810287E-005	-1.585213E-001	-1.697388E-001
221	5	-3.629824E-004	-5.553776E-005	-1.280569E-001	-1.959776E-001
221	6	-4.021215E-004	-6.300760E-005	-1.418961E-001	-2.223371E-001
221	7	-4.466552E-004	-5.554431E-005	-1.576113E-001	-1.959994E-001
221	8	-4.074260E-004	-4.810018E-005	-1.437687E-001	-1.697286E-001
221	9	-4.047788E-004	-5.554074E-005	-1.428348E-001	-1.959879E-001
222	1	-4.417645E-004	-8.500196E-005	-1.558873E-001	-2.999515E-001
222	2	-4.446797E-004	-7.645052E-005	-1.569149E-001	-2.697718E-001
222	3	-3.966514E-004	-7.644694E-005	-1.399677E-001	-2.697569E-001
222	4	-3.939865E-004	-8.499881E-005	-1.389987E-001	-2.999480E-001
222	5	-4.432258E-004	-8.073414E-005	-1.564011E-001	-2.848846E-001
222	6	-4.206671E-004	-7.644825E-005	-1.484415E-001	-2.697659E-001
222	7	-3.952756E-004	-8.072985E-005	-1.394817E-001	-2.848760E-001
222	8	-4.178450E-004	-8.499992E-005	-1.474445E-001	-2.999420E-001
222	9	-4.192539E-004	-8.073216E-005	-1.479420E-001	-2.848797E-001
223	1	-3.980722E-004	-8.435103E-005	-1.376448E-001	-2.976528E-001
223	2	-3.889444E-004	-8.793111E-005	-1.372465E-001	-3.102835E-001
223	3	-4.090985E-002	-8.793459E-003	-1.443587E-001	-3.102920E-001
223	4	-4.101557E-002	-8.435357E-003	-1.447317E-001	-2.976551E-001
223	5	-3.895105E-004	-8.613855E-005	-1.374471E-001	-3.039560E-001
223	6	-3.990204E-002	-8.793187E-003	-1.408819E-001	-3.102902E-001
223	7	-4.096339E-002	-8.614044E-003	-1.445471E-001	-3.039687E-001
223	8	-4.081184E-002	-8.435282E-003	-1.411872E-001	-2.976508E-001
223	9	-3.995681E-002	-8.613949E-003	-1.409962E-001	-3.039581E-001
224	1	-4.163361E-002	-8.292027E-003	-1.469133E-001	-2.925961E-001
224	2	-4.153345E-002	-8.640327E-003	-1.465602E-001	-3.048895E-001
224	3	-4.349498E-002	-8.640511E-003	-1.534887E-001	-3.049802E-001
224	4	-4.358575E-002	-8.292044E-003	-1.537994E-001	-2.926041E-001
224	5	-4.158335E-002	-8.465771E-003	-1.467381E-001	-2.987306E-001
224	6	-4.251427E-002	-8.640327E-003	-1.500201E-001	-3.048935E-001
224	7	-4.354044E-002	-8.465988E-003	-1.536414E-001	-2.987367E-001
224	8	-4.260944E-002	-8.292169E-003	-1.503558E-001	-2.926032E-001
224	9	-4.256183E-002	-8.465739E-003	-1.501885E-001	-2.987337E-001
225	1	-4.408119E-002	-8.348059E-003	-1.555499E-001	-2.945744E-001
225	2	-4.401154E-002	-8.625357E-003	-1.553049E-001	-3.043593E-001
225	3	-4.557411E-002	-8.625408E-003	-1.608168E-001	-3.043657E-001
225	4	-4.563754E-002	-8.348198E-003	-1.610423E-001	-2.945808E-001
225	5	-4.404647E-002	-8.486452E-003	-1.554281E-001	-2.994585E-001
225	6	-4.479215E-002	-8.625328E-003	-1.580591E-001	-3.043619E-001
225	7	-4.560550E-002	-8.486493E-003	-1.609298E-001	-2.994652E-001
225	8	-4.485956E-002	-8.348184E-003	-1.582956E-001	-2.945772E-001
225	9	-4.482591E-002	-8.486465E-003	-1.581783E-001	-2.994606E-001
226	1	-4.616281E-002	-8.206894E-003	-1.628949E-001	-2.895964E-001
226	2	-4.608881E-002	-8.533621E-003	-1.626339E-001	-3.011269E-001
226	3	-4.792555E-002	-8.533766E-003	-1.691155E-001	-3.011326E-001
226	4	-4.799298E-002	-8.206988E-003	-1.693540E-001	-2.895985E-001
226	5	-4.612626E-002	-8.369997E-003	-1.627661E-001	-2.953589E-001
226	6	-4.700741E-002	-8.533722E-003	-1.658757E-001	-3.011312E-001
226	7	-4.796049E-002	-8.370865E-003	-1.692357E-001	-2.953587E-001

226	8	-4.707986E-002	-8.206978E-003	-1.661243E-001	-2.895974E-001
226	9	-4.704267E-002	-8.370013E-003	-1.660007E-001	-2.953551E-001
227	1	-4.860381E-002	-7.954373E-003	-1.715102E-001	-2.806867E-001
227	2	-4.853209E-002	-8.312884E-003	-1.712564E-001	-2.933386E-001
227	3	-5.055346E-002	-8.313137E-003	-1.783872E-001	-2.933482E-001
227	4	-5.061743E-002	-7.954473E-003	-1.786159E-001	-2.806898E-001
227	5	-4.856034E-002	-8.133368E-003	-1.713827E-001	-2.870039E-001
227	6	-4.954265E-002	-8.313089E-003	-1.748210E-001	-2.933440E-001
227	7	-5.058585E-002	-8.133527E-003	-1.785031E-001	-2.870071E-001
227	8	-4.961061E-002	-7.954446E-003	-1.750622E-001	-2.806880E-001
227	9	-4.957681E-002	-8.133424E-003	-1.749422E-001	-2.870041E-001
228	1	-5.138298E-002	-7.551766E-003	-1.810319E-001	-2.664805E-001
228	2	-5.123350E-002	-7.943553E-003	-1.807804E-001	-2.803077E-001
228	3	-5.343770E-002	-7.943791E-003	-1.885661E-001	-2.803117E-001
228	4	-5.350268E-002	-7.551831E-003	-1.887961E-001	-2.664840E-001
228	5	-5.126804E-002	-7.747556E-003	-1.809180E-001	-2.733883E-001
228	6	-5.233558E-002	-7.943616E-003	-1.846762E-001	-2.803072E-001
228	7	-5.347020E-002	-7.747655E-003	-1.886810E-001	-2.733920E-001
228	8	-5.240266E-002	-7.551835E-003	-1.849133E-001	-2.664813E-001
228	9	-5.236912E-002	-7.747640E-003	-1.847950E-001	-2.733874E-001
229	1	-5.425298E-002	-6.959427E-003	-1.914441E-001	-2.455803E-001
229	2	-5.418779E-002	-7.366771E-003	-1.912129E-001	-2.599520E-001
229	3	-5.648308E-002	-7.366960E-003	-1.993124E-001	-2.599590E-001
229	4	-5.653684E-002	-6.959759E-003	-1.995008E-001	-2.455883E-001
229	5	-5.422075E-002	-7.162585E-003	-1.913292E-001	-2.527481E-001
229	6	-5.533548E-002	-7.366874E-003	-1.952623E-001	-2.599536E-001
229	7	-5.650976E-002	-7.162778E-003	-1.994859E-001	-2.527519E-001
229	8	-5.539523E-002	-6.959563E-003	-1.954730E-001	-2.455816E-001
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230	1	-5.729724E-002	-6.144478E-003	-2.021856E-001	-2.168216E-001
230	2	-5.724735E-002	-6.541502E-003	-2.020113E-001	-2.308295E-001
230	3	-5.948737E-002	-6.541769E-003	-2.099133E-001	-2.308417E-001
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230	5	-5.727277E-002	-6.342628E-003	-2.020976E-001	-2.238123E-001
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230	7	-5.950841E-002	-6.342791E-003	-2.099855E-001	-2.238194E-001
230	8	-5.841306E-002	-6.144548E-003	-2.061218E-001	-2.168246E-001
230	9	-5.839016E-002	-6.342733E-003	-2.060423E-001	-2.238157E-001
231	1	-6.025189E-002	-5.092531E-003	-2.126114E-001	-1.796991E-001
231	2	-6.021712E-002	-5.449663E-003	-2.124883E-001	-1.923009E-001
231	3	-6.223105E-002	-5.449782E-003	-2.195934E-001	-1.923074E-001
231	4	-6.225473E-002	-5.092659E-003	-2.196789E-001	-1.797050E-001
231	5	-6.023484E-002	-5.270609E-003	-2.125501E-001	-1.859850E-001
231	6	-6.122399E-002	-5.449694E-003	-2.160485E-001	-1.923031E-001
231	7	-6.224300E-002	-5.270698E-003	-2.196384E-001	-1.859894E-001
231	8	-6.125365E-002	-5.092559E-003	-2.161463E-001	-1.797001E-001
231	9	-6.123878E-002	-5.270653E-003	-2.160927E-001	-1.859861E-001
232	1	-6.285927E-002	-3.819171E-003	-2.218119E-001	-1.347696E-001
232	2	-6.284143E-002	-4.102469E-003	-2.217489E-001	-1.447629E-001
232	3	-6.443670E-002	-4.102670E-003	-2.273776E-001	-1.447702E-001
232	4	-6.445107E-002	-3.819211E-003	-2.274304E-001	-1.347685E-001
232	5	-6.285091E-002	-3.960731E-003	-2.217796E-001	-1.397631E-001
232	6	-6.363899E-002	-4.102540E-003	-2.245632E-001	-1.447665E-001
232	7	-6.444419E-002	-3.960787E-003	-2.274047E-001	-1.397670E-001
232	8	-6.365541E-002	-3.819334E-003	-2.246213E-001	-1.347719E-001
232	9	-6.364727E-002	-3.960726E-003	-2.245930E-001	-1.397622E-001
233	1	-6.490762E-002	-2.360610E-003	-2.290420E-001	-8.329746E-002
233	2	-6.489959E-002	-2.545015E-003	-2.290114E-001	-8.980383E-002
233	3	-6.594001E-002	-2.545110E-003	-2.326825E-001	-8.980788E-002
233	4	-6.594299E-002	-2.360616E-003	-2.326942E-001	-8.329919E-002

233	5	-6.490335E-002	-2.452554E-003	-2.290261E-001	-8.654556E-002
233	6	-6.541979E-002	-2.545176E-003	-2.308475E-001	-8.980840E-002
233	7	-6.594171E-002	-2.452630E-003	-2.326887E-001	-8.654423E-002
233	8	-6.542595E-002	-2.360492E-003	-2.308675E-001	-8.329337E-002
233	9	-6.542272E-002	-2.452619E-003	-2.308573E-001	-8.654567E-002
234	1	-6.616849E-002	-7.742968E-004	-2.334910E-001	-2.732244E-002
234	2	-6.616851E-002	-8.415153E-004	-2.334873E-001	-2.969198E-002
234	3	-6.654672E-002	-8.414292E-004	-2.348253E-001	-2.969836E-002
234	4	-6.654623E-002	-7.742830E-004	-2.348213E-001	-2.732251E-002
234	5	-6.616801E-002	-8.078275E-004	-2.334894E-001	-2.850487E-002
234	6	-6.635748E-002	-8.414836E-004	-2.341556E-001	-2.969427E-002
234	7	-6.654641E-002	-8.078110E-004	-2.348230E-001	-2.850691E-002
234	8	-6.635756E-002	-7.742805E-004	-2.341558E-001	-2.732057E-002
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235	1	-3.986298E-004	-2.223072E-005	-1.406648E-001	-7.844478E-002
235	2	-3.991757E-004	-2.106639E-005	-1.400576E-001	-7.433737E-002
235	3	-3.925934E-004	-2.106579E-005	-1.385353E-001	-7.433275E-002
235	4	-3.920783E-004	-2.223076E-005	-1.383513E-001	-7.844613E-002
235	5	-3.989048E-004	-2.165025E-005	-1.407626E-001	-7.639471E-002
235	6	-3.958859E-004	-2.106591E-005	-1.396968E-001	-7.433419E-002
235	7	-3.923317E-004	-2.164911E-005	-1.384421E-001	-7.639611E-002
235	8	-3.953518E-004	-2.223151E-005	-1.395076E-001	-7.844923E-002
235	9	-3.956172E-004	-2.164968E-005	-1.396021E-001	-7.639669E-002
236	1	-3.877822E-004	-2.921837E-005	-1.368356E-001	-1.031002E-001
236	2	-3.879003E-004	-2.893353E-005	-1.368789E-001	-1.020999E-001
236	3	-3.863038E-004	-2.893405E-005	-1.363156E-001	-1.020986E-001
236	4	-3.861791E-004	-2.921766E-005	-1.362714E-001	-1.031002E-001
236	5	-3.878382E-004	-2.907601E-005	-1.368569E-001	-1.026005E-001
236	6	-3.871046E-004	-2.893325E-005	-1.365976E-001	-1.020974E-001
236	7	-3.862423E-004	-2.907680E-005	-1.362927E-001	-1.026015E-001
236	8	-3.869808E-004	-2.921638E-005	-1.365530E-001	-1.030989E-001
236	9	-3.870418E-004	-2.907548E-005	-1.365764E-001	-1.026013E-001
237	1	-3.813705E-004	-3.919836E-005	-1.345758E-001	-1.383211E-001
237	2	-3.815731E-004	-3.871846E-005	-1.346447E-001	-1.366225E-001
237	3	-3.788527E-004	-3.871723E-005	-1.336879E-001	-1.366215E-001
237	4	-3.786618E-004	-3.919999E-005	-1.336192E-001	-1.383220E-001
237	5	-3.814741E-004	-3.895858E-005	-1.346114E-001	-1.374743E-001
237	6	-3.802123E-004	-3.871734E-005	-1.341664E-001	-1.366221E-001
237	7	-3.787607E-004	-3.895932E-005	-1.336538E-001	-1.374719E-001
237	8	-3.800151E-004	-3.919903E-005	-1.340975E-001	-1.383222E-001
237	9	-3.801172E-004	-3.895895E-005	-1.341320E-001	-1.374756E-001
238	1	-3.828617E-004	-4.442277E-005	-1.351013E-001	-1.567550E-001
238	2	-3.796893E-004	-5.253867E-005	-1.339812E-001	-1.853931E-001
238	3	-4.255655E-004	-5.254095E-005	-1.501715E-001	-1.854036E-001
238	4	-4.285850E-004	-4.442277E-005	-1.512351E-001	-1.567584E-001
238	5	-3.812735E-004	-4.847298E-005	-1.345414E-001	-1.710467E-001
238	6	-4.026255E-004	-5.253983E-005	-1.420749E-001	-1.853965E-001
238	7	-4.270776E-004	-4.847479E-005	-1.507026E-001	-1.710526E-001
238	8	-4.057188E-004	-4.442216E-005	-1.431674E-001	-1.567498E-001
238	9	-4.041779E-004	-4.847435E-005	-1.426218E-001	-1.710525E-001
239	1	-3.947358E-004	-8.279707E-005	-1.392913E-001	-2.921653E-001
239	2	-4.064920E-004	-5.063798E-005	-1.434401E-001	-1.786858E-001
239	3	-2.246723E-004	-5.062924E-005	-7.928002E-002	-1.786551E-001
239	4	-2.135408E-004	-8.279526E-005	-7.535164E-002	-2.921568E-001
239	5	-4.086038E-004	-6.674516E-005	-1.413624E-001	-2.355237E-001
239	6	-3.155921E-004	-5.063268E-005	-1.113634E-001	-1.786699E-001
239	7	-2.190900E-004	-6.674012E-005	-7.731067E-002	-2.355057E-001
239	8	-3.041486E-004	-8.279693E-005	-1.073242E-001	-2.921642E-001
239	9	-3.098608E-004	-6.674317E-005	-1.093407E-001	-2.355163E-001
240	1	-2.246589E-004	-4.964055E-005	-7.927595E-002	-1.751649E-001

240	2	-2.138414E-004	-8.155893E-005	-7.545871E-002	-2.877935E-001
240	3	-3.942916E-004	-8.156683E-005	-1.391323E-001	-2.870271E-001
240	4	-2.685131E-002	-3.298202E-003	-1.426184E-001	-1.751816E-001
240	5	-2.192670E-004	-6.555738E-005	-7.737365E-002	-2.313331E-001
240	6	-3.840606E-004	-8.156166E-005	-1.072948E-001	-2.878105E-001
240	7	-3.992448E-004	-6.556404E-005	-1.408818E-001	-2.313591E-001
240	8	-3.144095E-004	-4.964163E-005	-1.109457E-001	-1.751733E-001
240	9	-3.092479E-004	-6.556181E-005	-1.091244E-001	-2.313452E-001
241	1	-4.205681E-002	-8.313858E-003	-1.484060E-001	-2.933718E-001
241	2	-4.622313E-003	-9.208152E-004	-1.483406E-001	-2.955137E-001
241	3	-4.238235E-002	-8.374538E-003	-1.495528E-001	-2.955159E-001
241	4	-4.239906E-002	-8.313840E-003	-1.496127E-001	-2.933700E-001
241	5	-4.204748E-002	-8.344202E-003	-1.483742E-001	-2.944423E-001
241	6	-4.221811E-002	-8.374562E-003	-1.489469E-001	-2.955145E-001
241	7	-4.238997E-002	-8.344183E-003	-1.495843E-001	-2.944428E-001
241	8	-4.222781E-002	-8.313947E-003	-1.498094E-001	-2.933741E-001
241	9	-4.221897E-002	-8.344152E-003	-1.489791E-001	-2.944422E-001
242	1	-4.263111E-002	-8.078983E-003	-1.504326E-001	-2.850862E-001
242	2	-4.259176E-002	-8.220987E-003	-1.582936E-001	-2.980954E-001
242	3	-4.339277E-002	-8.220912E-003	-1.531186E-001	-2.980921E-001
242	4	-4.343058E-002	-8.079028E-003	-1.532543E-001	-2.850855E-001
242	5	-4.261150E-002	-8.149898E-003	-1.503639E-001	-2.875870E-001
242	6	-4.259210E-002	-8.220891E-003	-1.517061E-001	-2.980925E-001
242	7	-4.341150E-002	-8.149969E-003	-1.531849E-001	-2.875877E-001
242	8	-4.303899E-002	-8.079018E-003	-1.518434E-001	-2.850873E-001
242	9	-4.301135E-002	-8.150012E-003	-1.517748E-001	-2.875873E-001
243	1	-4.379347E-002	-7.994926E-003	-1.545336E-001	-2.821131E-001
243	2	-4.372123E-002	-8.267962E-003	-1.542798E-001	-2.917515E-001
243	3	-4.526609E-002	-8.268013E-003	-1.597311E-001	-2.917559E-001
243	4	-4.533293E-002	-7.994906E-003	-1.599669E-001	-2.821186E-001
243	5	-4.375777E-002	-8.131148E-003	-1.544088E-001	-2.869271E-001
243	6	-4.449375E-002	-8.268028E-003	-1.570056E-001	-2.917541E-001
243	7	-4.529963E-002	-8.131333E-003	-1.598482E-001	-2.869266E-001
243	8	-4.456323E-002	-7.994983E-003	-1.572502E-001	-2.821198E-001
243	9	-4.452834E-002	-8.131211E-003	-1.571271E-001	-2.869263E-001
244	1	-4.583543E-002	-7.826316E-003	-1.617413E-001	-2.761647E-001
244	2	-4.576608E-002	-8.116943E-003	-1.614963E-001	-2.864230E-001
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244	4	-4.747198E-002	-7.826333E-003	-1.675143E-001	-2.761732E-001
244	5	-4.580133E-002	-7.971398E-003	-1.616285E-001	-2.812837E-001
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244	7	-4.744115E-002	-7.971365E-003	-1.674067E-001	-2.812857E-001
244	8	-4.665338E-002	-7.826287E-003	-1.646273E-001	-2.761639E-001
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245	1	-4.803411E-002	-7.533372E-003	-1.694968E-001	-2.658319E-001
245	2	-4.796878E-002	-7.855394E-003	-1.692690E-001	-2.771902E-001
245	3	-4.979184E-002	-7.855439E-003	-1.757009E-001	-2.771948E-001
245	4	-4.984964E-002	-7.533330E-003	-1.759868E-001	-2.658283E-001
245	5	-4.808177E-002	-7.693953E-003	-1.693844E-001	-2.715000E-001
245	6	-4.888079E-002	-7.855314E-003	-1.724855E-001	-2.771939E-001
245	7	-4.982132E-002	-7.694100E-003	-1.758050E-001	-2.715020E-001
245	8	-4.894175E-002	-7.533411E-003	-1.727017E-001	-2.658339E-001
245	9	-4.891129E-002	-7.694128E-003	-1.725940E-001	-2.715036E-001
246	1	-5.047406E-002	-7.899998E-003	-1.781084E-001	-2.505386E-001
246	2	-5.041361E-002	-7.444478E-003	-1.778947E-001	-2.626950E-001
246	3	-5.235976E-002	-7.444592E-003	-1.847636E-001	-2.626972E-001
246	4	-5.241342E-002	-7.100181E-003	-1.849528E-001	-2.505365E-001
246	5	-5.044385E-002	-7.271977E-003	-1.780018E-001	-2.566060E-001
246	6	-5.138670E-002	-7.444683E-003	-1.813277E-001	-2.626993E-001
246	7	-5.238656E-002	-7.271974E-003	-1.848562E-001	-2.566093E-001

246	8	-5.144389E-002	-7.100096E-003	-1.815301E-001	-2.505397E-001
246	9	-5.141534E-002	-7.271934E-003	-1.814298E-001	-2.566063E-001
247	1	-5.307838E-002	-6.495500E-003	-1.872987E-001	-2.292057E-001
247	2	-5.302627E-002	-6.848874E-003	-1.871135E-001	-2.416783E-001
247	3	-5.502746E-002	-6.848984E-003	-1.941730E-001	-2.416814E-001
247	4	-5.507325E-002	-6.495483E-003	-1.943359E-001	-2.292115E-001
247	5	-5.305227E-002	-6.671940E-003	-1.872040E-001	-2.354338E-001
247	6	-5.402639E-002	-6.849021E-003	-1.906419E-001	-2.416831E-001
247	7	-5.505084E-002	-6.672028E-003	-1.942571E-001	-2.354372E-001
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248	2	-5.570297E-002	-6.036926E-003	-1.965596E-001	-2.130278E-001
248	3	-5.763425E-002	-6.037064E-003	-2.033729E-001	-2.130310E-001
248	4	-5.767044E-002	-5.696108E-003	-2.034998E-001	-2.010016E-001
248	5	-5.572381E-002	-5.866258E-003	-1.966329E-001	-2.070013E-001
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251	2	-6.227110E-002	-2.311870E-003	-2.197362E-001	-8.154984E-002
251	3	-6.314999E-002	-2.311161E-003	-2.228392E-001	-8.155374E-002
251	4	-6.315406E-002	-2.155757E-003	-2.228531E-001	-7.607150E-002
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251	6	-6.271055E-002	-2.311863E-003	-2.212877E-001	-8.155155E-002
251	7	-6.315200E-002	-2.233313E-003	-2.228457E-001	-7.880744E-002
251	8	-6.271551E-002	-2.155657E-003	-2.213042E-001	-7.606692E-002
251	9	-6.271315E-002	-2.233337E-003	-2.212961E-001	-7.880883E-002
252	1	-6.336181E-002	-7.852668E-004	-2.235831E-001	-2.488716E-002
252	2	-6.335995E-002	-7.569400E-004	-2.235786E-001	-2.670740E-002
252	3	-6.365301E-002	-7.569390E-004	-2.246125E-001	-2.670880E-002
252	4	-6.365310E-002	-7.853051E-004	-2.246120E-001	-2.488554E-002
252	5	-6.336896E-002	-7.311010E-004	-2.235817E-001	-2.579785E-002
252	6	-6.350622E-002	-7.568842E-004	-2.240967E-001	-2.670765E-002
252	7	-6.365321E-002	-7.310599E-004	-2.246137E-001	-2.579788E-002
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253	1	-5.987462E-002	-1.982809E-003	-2.112797E-001	-6.996875E-002
253	2	-5.986766E-002	-2.113919E-003	-2.112576E-001	-7.459121E-002
253	3	-6.061475E-002	-2.113895E-003	-2.138913E-001	-7.459234E-002
253	4	-6.061653E-002	-1.982858E-003	-2.138988E-001	-6.996883E-002

253	5	-5.987165E-002	-2.048184E-003	-2.112699E-001	-7.227787E-002
253	6	-6.024113E-002	-2.113881E-003	-2.125737E-001	-7.459464E-002
253	7	-6.061538E-002	-2.048204E-003	-2.138937E-001	-7.227373E-002
253	8	-6.024538E-002	-1.982863E-003	-2.125885E-001	-6.996477E-002
253	9	-6.024336E-002	-2.048168E-003	-2.125803E-001	-7.227257E-002
254	1	-6.077962E-002	-6.444572E-004	-2.144737E-001	-2.274347E-002
254	2	-6.077992E-002	-6.910452E-004	-2.144741E-001	-2.438535E-002
254	3	-6.104401E-002	-6.909840E-004	-2.154077E-001	-2.438204E-002
254	4	-6.104397E-002	-6.444431E-004	-2.154057E-001	-2.274300E-002
254	5	-6.078005E-002	-6.677179E-004	-2.144737E-001	-2.356040E-002
254	6	-6.091185E-002	-6.909810E-004	-2.149400E-001	-2.438384E-002
254	7	-6.104426E-002	-6.677510E-004	-2.154069E-001	-2.355998E-002
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255	1	-5.838705E-002	-3.235155E-003	-2.060310E-001	-1.141598E-001
255	2	-5.837178E-002	-3.437739E-003	-2.059785E-001	-1.213027E-001
255	3	-5.952469E-002	-3.437568E-003	-2.100450E-001	-1.213032E-001
255	4	-5.953553E-002	-3.235147E-003	-2.100823E-001	-1.141595E-001
255	5	-5.838008E-002	-3.336159E-003	-2.060861E-001	-1.177268E-001
255	6	-5.894030E-002	-3.437732E-003	-2.080121E-001	-1.213055E-001
255	7	-5.953002E-002	-3.336252E-003	-2.100635E-001	-1.177267E-001
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256	2	-5.428638E-002	-5.603660E-003	-1.912761E-001	-1.977412E-001
256	3	-5.587250E-002	-5.603780E-003	-1.971580E-001	-1.977426E-001
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257	2	-5.642956E-002	-4.612671E-003	-1.991253E-001	-1.627703E-001
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257	5	-5.644307E-002	-4.483234E-003	-1.991701E-001	-1.582004E-001
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257	7	-5.791096E-002	-4.483282E-003	-2.043503E-001	-1.582012E-001
257	8	-5.718822E-002	-4.354301E-003	-2.018011E-001	-1.536477E-001
257	9	-5.717690E-002	-4.483269E-003	-2.017606E-001	-1.582028E-001
258	1	-4.960205E-002	-6.703882E-003	-1.750389E-001	-2.365344E-001
258	2	-4.954864E-002	-7.005847E-003	-1.748436E-001	-2.472155E-001
258	3	-5.126658E-002	-7.005868E-003	-1.809836E-001	-2.472139E-001
258	4	-5.131388E-002	-6.703127E-003	-1.810694E-001	-2.365330E-001
258	5	-4.957492E-002	-6.854171E-003	-1.749355E-001	-2.418646E-001
258	6	-5.040786E-002	-7.005842E-003	-1.778737E-001	-2.472157E-001
258	7	-5.129010E-002	-6.854179E-003	-1.809866E-001	-2.418629E-001
258	8	-5.045771E-002	-6.703164E-003	-1.780503E-001	-2.365363E-001
258	9	-5.043262E-002	-6.854216E-003	-1.779617E-001	-2.418641E-001
259	1	-5.198920E-002	-6.092587E-003	-1.831704E-001	-2.149914E-001
259	2	-5.186338E-002	-6.399552E-003	-1.830898E-001	-2.258103E-001
259	3	-5.360804E-002	-6.399509E-003	-1.891664E-001	-2.258195E-001
259	4	-5.364855E-002	-6.092676E-003	-1.893893E-001	-2.149928E-001
259	5	-5.188687E-002	-6.245885E-003	-1.830904E-001	-2.203975E-001
259	6	-5.273525E-002	-6.399462E-003	-1.860870E-001	-2.258178E-001
259	7	-5.362797E-002	-6.245819E-003	-1.892365E-001	-2.203954E-001
259	8	-5.277813E-002	-6.092662E-003	-1.862385E-001	-2.149942E-001
259	9	-5.275709E-002	-6.245833E-003	-1.861642E-001	-2.203940E-001
260	1	-4.540387E-002	-7.482246E-003	-1.602169E-001	-2.640280E-001

260	2	-4.534446E-002	-7.745848E-003	-1.600063E-001	-2.733274E-001
260	3	-4.684152E-002	-7.745812E-003	-1.652916E-001	-2.733253E-001
260	4	-4.689561E-002	-7.482335E-003	-1.654832E-001	-2.640269E-001
260	5	-4.537402E-002	-7.613768E-003	-1.601114E-001	-2.686684E-001
260	6	-4.609278E-002	-7.745702E-003	-1.626479E-001	-2.733252E-001
260	7	-4.686904E-002	-7.613941E-003	-1.653863E-001	-2.686721E-001
260	8	-4.614996E-002	-7.482312E-003	-1.628485E-001	-2.640300E-001
260	9	-4.612141E-002	-7.613784E-003	-1.627490E-001	-2.686689E-001
261	1	-4.741559E-002	-7.158793E-003	-1.673148E-001	-2.526115E-001
261	2	-4.735724E-002	-7.444933E-003	-1.671105E-001	-2.627068E-001
261	3	-4.898471E-002	-7.444872E-003	-1.728515E-001	-2.627054E-001
261	4	-4.903634E-002	-7.158755E-003	-1.730342E-001	-2.526098E-001
261	5	-4.738650E-002	-7.301498E-003	-1.672127E-001	-2.576530E-001
261	6	-4.817067E-002	-7.444856E-003	-1.699798E-001	-2.627084E-001
261	7	-4.908545E-002	-7.301555E-003	-1.729417E-001	-2.576532E-001
261	8	-4.822562E-002	-7.158863E-003	-1.701735E-001	-2.526126E-001
261	9	-4.819823E-002	-7.301676E-003	-1.700774E-001	-2.576538E-001
262	1	-4.364315E-002	-7.691268E-003	-1.540035E-001	-2.713995E-001
262	2	-4.358526E-002	-7.921570E-003	-1.537994E-001	-2.795329E-001
262	3	-4.489525E-002	-7.921776E-003	-1.584212E-001	-2.795316E-001
262	4	-4.494838E-002	-7.691246E-003	-1.586097E-001	-2.713982E-001
262	5	-4.361498E-002	-7.806381E-003	-1.539037E-001	-2.754621E-001
262	6	-4.424029E-002	-7.921658E-003	-1.561103E-001	-2.795315E-001
262	7	-4.492156E-002	-7.806288E-003	-1.585166E-001	-2.754623E-001
262	8	-4.429583E-002	-7.691198E-003	-1.563063E-001	-2.714020E-001
262	9	-4.426812E-002	-7.806245E-003	-1.562086E-001	-2.754616E-001
263	1	-4.017838E-002	-7.972401E-003	-1.417776E-001	-2.813172E-001
263	2	-4.008666E-002	-8.262501E-003	-1.414553E-001	-2.915601E-001
263	3	-4.173581E-002	-8.262628E-003	-1.472732E-001	-2.915637E-001
263	4	-4.182172E-002	-7.972323E-003	-1.475753E-001	-2.813198E-001
263	5	-4.013202E-002	-8.117240E-003	-1.416141E-001	-2.864349E-001
263	6	-4.091129E-002	-8.262499E-003	-1.443647E-001	-2.915636E-001
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264	2	-4.219265E-002	-8.032109E-003	-1.488860E-001	-2.834303E-001
264	3	-4.321786E-002	-8.032036E-003	-1.525024E-001	-2.834291E-001
264	4	-4.326440E-002	-7.851597E-003	-1.526661E-001	-2.770593E-001
264	5	-4.221803E-002	-7.941652E-003	-1.489773E-001	-2.802354E-001
264	6	-4.278504E-002	-8.032026E-003	-1.506932E-001	-2.834282E-001
264	7	-4.324105E-002	-7.941681E-003	-1.525861E-001	-2.802384E-001
264	8	-4.275442E-002	-7.851600E-003	-1.508669E-001	-2.770593E-001
264	9	-4.272979E-002	-7.941515E-003	-1.507813E-001	-2.802362E-001
265	1	-6.477452E-004	-8.947657E-005	-2.285692E-001	-3.157377E-001
265	2	-6.689419E-004	-5.069897E-005	-2.332267E-001	-1.788015E-001
265	3	-4.406782E-002	-5.869515E-003	-1.555006E-001	-1.788875E-001
265	4	-4.282365E-002	-8.948017E-003	-1.511125E-001	-3.157495E-001
265	5	-6.543273E-004	-7.012073E-005	-2.308933E-001	-2.474365E-001
265	6	-5.508174E-004	-5.869636E-005	-1.943670E-001	-1.788906E-001
265	7	-4.344444E-002	-7.011998E-003	-1.533026E-001	-2.474366E-001
265	8	-5.379985E-004	-8.947821E-005	-1.898435E-001	-3.157403E-001
265	9	-5.443977E-004	-7.012059E-005	-1.921024E-001	-2.474379E-001
266	1	-4.029036E-004	-5.868367E-005	-1.421742E-001	-1.788432E-001
266	2	-4.054427E-004	-4.419361E-005	-1.430685E-001	-1.559402E-001
266	3	-3.685965E-004	-4.419346E-005	-1.300665E-001	-1.559451E-001
266	4	-3.661900E-004	-5.868281E-005	-1.292167E-001	-1.788459E-001
266	5	-4.041748E-004	-4.744405E-005	-1.426201E-001	-1.674156E-001
266	6	-3.870197E-004	-4.419288E-005	-1.365682E-001	-1.559451E-001
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266	9	-3.857848E-004	-4.744405E-005	-1.361313E-001	-1.674156E-001
267	1	-3.974452E-004	-3.635363E-005	-1.402462E-001	-1.282822E-001
267	2	-3.963553E-004	-3.889704E-005	-1.398633E-001	-1.372551E-001
267	3	-4.107908E-004	-3.889741E-005	-1.449552E-001	-1.372598E-001
267	4	-4.118028E-004	-3.635257E-005	-1.453126E-001	-1.282824E-001
267	5	-3.969040E-004	-3.762277E-005	-1.400565E-001	-1.327586E-001
267	6	-4.035732E-004	-3.889719E-005	-1.424091E-001	-1.372593E-001
267	7	-4.112977E-004	-3.762200E-005	-1.451354E-001	-1.327586E-001
267	8	-4.046176E-004	-3.635450E-005	-1.427794E-001	-1.282829E-001
267	9	-4.040980E-004	-3.762168E-005	-1.425940E-001	-1.327580E-001
268	1	-4.038573E-004	-3.541675E-005	-1.425101E-001	-1.249710E-001
268	2	-3.872541E-004	-8.082409E-005	-1.366492E-001	-2.852049E-001
268	3	-6.451227E-004	-8.082446E-005	-2.276449E-001	-2.852021E-001
268	4	-6.608313E-004	-3.541138E-005	-2.331893E-001	-1.249606E-001
268	5	-3.955690E-004	-5.808194E-005	-1.395846E-001	-2.049498E-001
268	6	-5.161795E-004	-8.082470E-005	-1.821432E-001	-2.852061E-001
268	7	-6.529894E-004	-5.807842E-005	-2.304205E-001	-2.049426E-001
268	8	-5.323390E-004	-3.541437E-005	-1.878475E-001	-1.249690E-001
268	9	-5.242751E-004	-5.807964E-005	-1.850803E-001	-2.049446E-001
269	1	-4.089127E-004	-2.303255E-005	-1.442932E-001	-8.128173E-002
269	2	-4.091798E-004	-2.248212E-005	-1.443859E-001	-7.932860E-002
269	3	-4.060472E-004	-2.248080E-005	-1.432813E-001	-7.932743E-002
269	4	-4.057945E-004	-2.303177E-005	-1.431932E-001	-8.127027E-002
269	5	-4.090427E-004	-2.275739E-005	-1.443395E-001	-8.030394E-002
269	6	-4.076085E-004	-2.248177E-005	-1.438339E-001	-7.933111E-002
269	7	-4.059208E-004	-2.275739E-005	-1.432382E-001	-8.030394E-002
269	8	-4.073534E-004	-2.303371E-005	-1.437438E-001	-8.127365E-002
269	9	-4.074828E-004	-2.275739E-005	-1.437883E-001	-8.030394E-002
270	1	-4.017459E-004	-2.989507E-005	-1.417633E-001	-1.054920E-001
270	2	-4.019908E-004	-2.933972E-005	-1.418524E-001	-1.035329E-001
270	3	-3.988409E-004	-2.933946E-005	-1.407486E-001	-1.035314E-001
270	4	-3.985963E-004	-2.989573E-005	-1.406545E-001	-1.054955E-001
270	5	-4.018710E-004	-2.961717E-005	-1.418083E-001	-1.045134E-001
270	6	-4.004182E-004	-2.934046E-005	-1.412961E-001	-1.035312E-001
270	7	-3.987267E-004	-2.961755E-005	-1.406993E-001	-1.045152E-001
270	8	-4.001700E-004	-2.989416E-005	-1.412091E-001	-1.054899E-001
270	9	-4.002955E-004	-2.961806E-005	-1.412525E-001	-1.045133E-001
271	1	-5.843229E-002	-5.943129E-004	-2.061896E-001	-2.897104E-002
271	2	-5.843129E-002	-6.322662E-004	-2.061879E-001	-2.231211E-002
271	3	-5.864906E-002	-6.322332E-004	-2.069532E-001	-2.231023E-002
271	4	-5.864893E-002	-5.944206E-004	-2.069547E-001	-2.897218E-002
271	5	-5.843164E-002	-6.133160E-004	-2.061895E-001	-2.163980E-002
271	6	-5.854023E-002	-6.322617E-004	-2.065710E-001	-2.231251E-002
271	7	-5.864867E-002	-6.132986E-004	-2.069543E-001	-2.163857E-002
271	8	-5.854052E-002	-5.942784E-004	-2.065726E-001	-2.096820E-002
271	9	-5.854089E-002	-6.132551E-004	-2.065713E-001	-2.163955E-002
272	1	-5.764520E-002	-1.837455E-003	-2.034274E-001	-6.484397E-002
272	2	-5.764382E-002	-1.947852E-003	-2.034074E-001	-6.873386E-002
272	3	-5.827462E-002	-1.947882E-003	-2.056337E-001	-6.873305E-002
272	4	-5.827805E-002	-1.837466E-003	-2.056442E-001	-6.484196E-002
272	5	-5.764631E-002	-1.892632E-003	-2.034168E-001	-6.678364E-002
272	6	-5.795901E-002	-1.947834E-003	-2.045210E-001	-6.873217E-002
272	7	-5.827616E-002	-1.892596E-003	-2.056374E-001	-6.678139E-002
272	8	-5.796331E-002	-1.837431E-003	-2.045351E-001	-6.483819E-002
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273	1	-5.637312E-002	-3.088376E-003	-1.989260E-001	-1.061586E-001
273	2	-5.636130E-002	-3.180733E-003	-1.988811E-001	-1.122368E-001
273	3	-5.734496E-002	-3.180625E-003	-2.023573E-001	-1.122353E-001
273	4	-5.735533E-002	-3.088320E-003	-2.023890E-001	-1.061566E-001

273	5	-5.636708E-002	-3.094453E-003	-1.989018E-001	-1.091951E-001
273	6	-5.685307E-002	-3.180693E-003	-2.006174E-001	-1.122366E-001
273	7	-5.735004E-002	-3.094442E-003	-2.023720E-001	-1.091918E-001
273	8	-5.686376E-002	-3.088400E-003	-2.006567E-001	-1.061574E-001
273	9	-5.685889E-002	-3.094418E-003	-2.006384E-001	-1.091912E-001
274	1	-5.470908E-002	-4.063678E-003	-1.930522E-001	-1.433979E-001
274	2	-5.468724E-002	-4.284540E-003	-1.929755E-001	-1.511086E-001
274	3	-5.594917E-002	-4.284536E-003	-1.974305E-001	-1.511980E-001
274	4	-5.596684E-002	-4.063733E-003	-1.974911E-001	-1.433976E-001
274	5	-5.469895E-002	-4.173972E-003	-1.930154E-001	-1.472891E-001
274	6	-5.531842E-002	-4.284559E-003	-1.952015E-001	-1.511881E-001
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274	8	-5.533776E-002	-4.063698E-003	-1.952721E-001	-1.433985E-001
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275	1	-5.278759E-002	-4.979731E-003	-1.862736E-001	-1.757165E-001
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275	4	-5.422406E-002	-4.979516E-003	-1.913414E-001	-1.757112E-001
275	5	-5.277236E-002	-5.105432E-003	-1.862189E-001	-1.801570E-001
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276	2	-5.070575E-002	-6.009256E-003	-1.789233E-001	-2.120530E-001
276	3	-5.222750E-002	-6.009360E-003	-1.842946E-001	-2.120510E-001
276	4	-5.226138E-002	-5.742993E-003	-1.844153E-001	-2.026553E-001
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277	2	-4.865699E-002	-6.620497E-003	-1.716958E-001	-2.336203E-001
277	3	-5.016999E-002	-6.620524E-003	-1.770360E-001	-2.336161E-001
277	4	-5.021229E-002	-6.355318E-003	-1.771833E-001	-2.242671E-001
277	5	-4.868138E-002	-6.487685E-003	-1.717828E-001	-2.289309E-001
277	6	-4.941347E-002	-6.620530E-003	-1.743646E-001	-2.336170E-001
277	7	-5.019121E-002	-6.487629E-003	-1.771100E-001	-2.289273E-001
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278	1	-4.675172E-002	-6.828256E-003	-1.649733E-001	-2.409462E-001
278	2	-4.669764E-002	-7.080555E-003	-1.647824E-001	-2.498508E-001
278	3	-4.813850E-002	-7.080610E-003	-1.698677E-001	-2.498537E-001
278	4	-4.818732E-002	-6.828093E-003	-1.700404E-001	-2.409484E-001
278	5	-4.672490E-002	-6.954208E-003	-1.648772E-001	-2.453952E-001
278	6	-4.741828E-002	-7.080579E-003	-1.673252E-001	-2.498492E-001
278	7	-4.816365E-002	-6.954121E-003	-1.699550E-001	-2.453911E-001
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279	1	-4.493942E-002	-7.175348E-003	-1.585774E-001	-2.531942E-001
279	2	-4.488273E-002	-7.409894E-003	-1.583795E-001	-2.614730E-001
279	3	-4.622149E-002	-7.409825E-003	-1.631036E-001	-2.614731E-001
279	4	-4.627371E-002	-7.175289E-003	-1.632846E-001	-2.531961E-001
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279	7	-4.624772E-002	-7.292448E-003	-1.631956E-001	-2.573249E-001
279	8	-4.560603E-002	-7.175311E-003	-1.609305E-001	-2.531978E-001
279	9	-4.557943E-002	-7.292335E-003	-1.608378E-001	-2.573277E-001
280	1	-4.336012E-002	-7.424990E-003	-1.530048E-001	-2.620043E-001

280	2	-4.330587E-002	-7.628236E-003	-1.528133E-001	-2.691760E-001
280	3	-4.446671E-002	-7.628153E-003	-1.569101E-001	-2.691770E-001
280	4	-4.451588E-002	-7.424858E-003	-1.570847E-001	-2.620007E-001
280	5	-4.333324E-002	-7.526351E-003	-1.529112E-001	-2.655857E-001
280	6	-4.388647E-002	-7.628144E-003	-1.548621E-001	-2.691764E-001
280	7	-4.449124E-002	-7.526338E-003	-1.569964E-001	-2.655825E-001
280	8	-4.393812E-002	-7.424895E-003	-1.550453E-001	-2.620013E-001
280	9	-4.391230E-002	-7.526306E-003	-1.549539E-001	-2.655825E-001
281	1	-4.173482E-002	-7.576432E-003	-1.472698E-001	-2.673447E-001
281	2	-4.167196E-002	-7.793766E-003	-1.470483E-001	-2.750218E-001
281	3	-4.291223E-002	-7.793679E-003	-1.514252E-001	-2.750194E-001
281	4	-4.297131E-002	-7.576311E-003	-1.516334E-001	-2.673424E-001
281	5	-4.170332E-002	-7.684865E-003	-1.471593E-001	-2.711776E-001
281	6	-4.229231E-002	-7.793663E-003	-1.492367E-001	-2.750186E-001
281	7	-4.294228E-002	-7.684795E-003	-1.515306E-001	-2.711773E-001
281	8	-4.235298E-002	-7.576359E-003	-1.494510E-001	-2.673467E-001
281	9	-4.232258E-002	-7.684879E-003	-1.493448E-001	-2.711765E-001
282	1	-4.049302E-002	-7.752605E-003	-1.428982E-001	-2.735656E-001
282	2	-4.044484E-002	-7.987571E-003	-1.427173E-001	-2.798376E-001
282	3	-4.132906E-002	-7.987475E-003	-1.458379E-001	-2.798344E-001
282	4	-4.137549E-002	-7.752745E-003	-1.459999E-001	-2.735642E-001
282	5	-4.046911E-002	-7.830015E-003	-1.428042E-001	-2.762941E-001
282	6	-4.088704E-002	-7.987632E-003	-1.442786E-001	-2.798354E-001
282	7	-4.135237E-002	-7.829914E-003	-1.459197E-001	-2.762946E-001
282	8	-4.093408E-002	-7.752687E-003	-1.444447E-001	-2.735617E-001
282	9	-4.091877E-002	-7.830005E-003	-1.443613E-001	-2.762947E-001
283	1	-2.249913E-004	-6.284673E-005	-7.939202E-002	-2.217724E-001
283	2	-2.154106E-004	-9.099329E-005	-7.601037E-002	-3.210915E-001
283	3	-3.768022E-002	-9.098946E-003	-1.326791E-001	-3.210771E-001
283	4	-3.850298E-002	-6.283797E-003	-1.358659E-001	-2.217402E-001
283	5	-2.282088E-004	-7.689670E-005	-7.770560E-002	-2.713442E-001
283	6	-3.099122E-002	-9.536576E-003	-1.043431E-001	-3.210827E-001
283	7	-3.885238E-002	-7.688913E-003	-1.342745E-001	-2.713198E-001
283	8	-3.050006E-002	-6.284342E-003	-1.076261E-001	-2.217544E-001
283	9	-3.003570E-002	-7.689307E-003	-1.059866E-001	-2.713339E-001
284	1	-4.369877E-004	-7.071949E-005	-1.542008E-001	-2.495469E-001
284	2	-4.503540E-004	-3.417298E-005	-1.589177E-001	-1.205882E-001
284	3	-2.418861E-004	-3.417901E-005	-8.535542E-002	-1.206082E-001
284	4	-2.292362E-004	-7.073466E-005	-8.088973E-002	-2.495954E-001
284	5	-4.436580E-004	-5.247820E-005	-1.565540E-001	-1.851821E-001
284	6	-3.461300E-004	-3.417654E-005	-1.221391E-001	-1.205987E-001
284	7	-2.355494E-004	-5.248798E-005	-8.311975E-002	-1.852153E-001
284	8	-3.331240E-004	-7.072646E-005	-1.175492E-001	-2.495743E-001
284	9	-3.396145E-004	-5.248309E-005	-1.198404E-001	-1.851952E-001
285	1	-4.170408E-004	-4.085246E-005	-1.471681E-001	-1.441598E-001
285	2	-4.133664E-004	-5.024939E-005	-1.458645E-001	-1.773161E-001
285	3	-4.669556E-004	-5.024791E-005	-1.647758E-001	-1.773105E-001
285	4	-4.704496E-004	-4.085088E-005	-1.660868E-001	-1.441520E-001
285	5	-4.152051E-004	-4.554293E-005	-1.465153E-001	-1.607115E-001
285	6	-4.401597E-004	-5.024904E-005	-1.553203E-001	-1.773153E-001
285	7	-4.687059E-004	-4.554214E-005	-1.653938E-001	-1.607026E-001
285	8	-4.437437E-004	-4.085245E-005	-1.565839E-001	-1.441540E-001
285	9	-4.419554E-004	-4.554207E-005	-1.559532E-001	-1.607045E-001
286	1	-4.102945E-004	-3.581626E-005	-1.447802E-001	-1.263860E-001
286	2	-4.102357E-004	-3.596365E-005	-1.447507E-001	-1.269080E-001
286	3	-4.110708E-004	-3.596428E-005	-1.450554E-001	-1.269087E-001
286	4	-4.111337E-004	-3.581518E-005	-1.450765E-001	-1.263820E-001
286	5	-4.102664E-004	-3.589072E-005	-1.447696E-001	-1.266465E-001
286	6	-4.106516E-004	-3.596372E-005	-1.449059E-001	-1.269052E-001
286	7	-4.111042E-004	-3.589048E-005	-1.450665E-001	-1.266471E-001

286	8	-4.107104E-004	-3.581557E-005	-1.449278E-001	-1.263872E-001
286	9	-4.106839E-004	-3.588998E-005	-1.449176E-001	-1.266462E-001
287	1	-4.143163E-004	-3.029834E-005	-1.461995E-001	-1.069144E-001
287	2	-4.144444E-004	-3.001694E-005	-1.462443E-001	-1.059224E-001
287	3	-4.128386E-004	-3.001715E-005	-1.456769E-001	-1.059200E-001
287	4	-4.127150E-004	-3.029989E-005	-1.456359E-001	-1.069210E-001
287	5	-4.143039E-004	-3.015053E-005	-1.462215E-001	-1.064104E-001
287	6	-4.136376E-004	-3.001757E-005	-1.459603E-001	-1.059217E-001
287	7	-4.127772E-004	-3.015887E-005	-1.456578E-001	-1.064205E-001
287	8	-4.135148E-004	-3.029912E-005	-1.459182E-001	-1.069120E-001
287	9	-4.135746E-004	-3.015800E-005	-1.459395E-001	-1.064191E-001
288	1	-4.209371E-004	-2.372341E-005	-1.485368E-001	-8.371387E-002
288	2	-4.211895E-004	-2.318981E-005	-1.486239E-001	-8.183089E-002
288	3	-4.181472E-004	-2.319875E-005	-1.475529E-001	-8.183228E-002
288	4	-4.179143E-004	-2.372265E-005	-1.474704E-001	-8.370995E-002
288	5	-4.210567E-004	-2.345756E-005	-1.485804E-001	-8.277411E-002
288	6	-4.196693E-004	-2.319038E-005	-1.480890E-001	-8.183397E-002
288	7	-4.180314E-004	-2.345795E-005	-1.475119E-001	-8.277516E-002
288	8	-4.194237E-004	-2.372396E-005	-1.480031E-001	-8.371000E-002
288	9	-4.195467E-004	-2.345760E-005	-1.480457E-001	-8.277240E-002
289	1	-5.623689E-002	-5.416131E-004	-1.984441E-001	-1.910840E-002
289	2	-5.623670E-002	-5.828841E-004	-1.984424E-001	-2.057004E-002
289	3	-5.647369E-002	-5.828899E-004	-1.992798E-001	-2.056980E-002
289	4	-5.647296E-002	-5.415836E-004	-1.992784E-001	-1.911013E-002
289	5	-5.623636E-002	-5.620708E-004	-1.984422E-001	-1.984004E-002
289	6	-5.635523E-002	-5.828674E-004	-1.988614E-001	-2.056850E-002
289	7	-5.647352E-002	-5.622279E-004	-1.992784E-001	-1.983819E-002
289	8	-5.635523E-002	-5.416428E-004	-1.988614E-001	-1.911260E-002
289	9	-5.635523E-002	-5.621380E-004	-1.988614E-001	-1.983816E-002
290	1	-5.557670E-002	-1.714974E-003	-1.961134E-001	-6.051392E-002
290	2	-5.557317E-002	-1.808086E-003	-1.961015E-001	-6.380154E-002
290	3	-5.610859E-002	-1.808017E-003	-1.979911E-001	-6.380267E-002
290	4	-5.611065E-002	-1.714772E-003	-1.979967E-001	-6.050956E-002
290	5	-5.557518E-002	-1.761367E-003	-1.961082E-001	-6.215197E-002
290	6	-5.584092E-002	-1.808074E-003	-1.970460E-001	-6.380297E-002
290	7	-5.610936E-002	-1.761343E-003	-1.979942E-001	-6.215252E-002
290	8	-5.584305E-002	-1.714754E-003	-1.970535E-001	-6.051175E-002
290	9	-5.584197E-002	-1.761385E-003	-1.970505E-001	-6.215320E-002
291	1	-5.448059E-002	-2.812875E-003	-1.922450E-001	-9.925907E-002
291	2	-5.447118E-002	-2.961939E-003	-1.922132E-001	-1.045142E-001
291	3	-5.532652E-002	-2.961731E-003	-1.952318E-001	-1.045143E-001
291	4	-5.533287E-002	-2.812872E-003	-1.952528E-001	-9.925678E-002
291	5	-5.447637E-002	-2.887277E-003	-1.922307E-001	-1.018827E-001
291	6	-5.489891E-002	-2.961753E-003	-1.937225E-001	-1.045152E-001
291	7	-5.533021E-002	-2.887191E-003	-1.952427E-001	-1.018881E-001
291	8	-5.490646E-002	-2.812896E-003	-1.937492E-001	-9.926175E-002
291	9	-5.490263E-002	-2.887242E-003	-1.937348E-001	-1.018822E-001
292	1	-5.304989E-002	-3.814510E-003	-1.871970E-001	-1.346033E-001
292	2	-5.303886E-002	-4.004096E-003	-1.871300E-001	-1.412925E-001
292	3	-5.412183E-002	-4.003977E-003	-1.909808E-001	-1.412904E-001
292	4	-5.413466E-002	-3.814385E-003	-1.910249E-001	-1.346006E-001
292	5	-5.303998E-002	-3.989070E-003	-1.871621E-001	-1.379397E-001
292	6	-5.357598E-002	-4.003976E-003	-1.890548E-001	-1.412887E-001
292	7	-5.412803E-002	-3.988964E-003	-1.910016E-001	-1.379364E-001
292	8	-5.359194E-002	-3.814485E-003	-1.891102E-001	-1.346013E-001
292	9	-5.358416E-002	-3.989084E-003	-1.890822E-001	-1.379386E-001
293	1	-5.138209E-002	-4.694915E-003	-1.813121E-001	-1.656675E-001
293	2	-5.135495E-002	-4.911466E-003	-1.812161E-001	-1.733120E-001
293	3	-5.259938E-002	-4.911486E-003	-1.856049E-001	-1.733094E-001
293	4	-5.262155E-002	-4.694817E-003	-1.856048E-001	-1.656642E-001

293	5	-5.136824E-002	-4.803013E-003	-1.812641E-001	-1.694827E-001
293	6	-5.197691E-002	-4.911574E-003	-1.834118E-001	-1.733141E-001
293	7	-5.260970E-002	-4.802987E-003	-1.856442E-001	-1.694821E-001
293	8	-5.208170E-002	-4.694895E-003	-1.834996E-001	-1.656685E-001
293	9	-5.198919E-002	-4.802929E-003	-1.834544E-001	-1.694817E-001
294	1	-4.959466E-002	-5.440110E-003	-1.750047E-001	-1.919658E-001
294	2	-4.955992E-002	-5.670850E-003	-1.748816E-001	-2.001067E-001
294	3	-5.088439E-002	-5.670819E-003	-1.795565E-001	-2.001074E-001
294	4	-5.091501E-002	-5.439926E-003	-1.796625E-001	-1.919579E-001
294	5	-4.957738E-002	-5.555241E-003	-1.749430E-001	-1.960304E-001
294	6	-5.022181E-002	-5.670879E-003	-1.772182E-001	-2.001053E-001
294	7	-5.089984E-002	-5.555111E-003	-1.796085E-001	-1.960255E-001
294	8	-5.025414E-002	-5.439988E-003	-1.773323E-001	-1.919650E-001
294	9	-5.023827E-002	-5.555254E-003	-1.772761E-001	-1.960292E-001
295	1	-4.779871E-002	-6.051561E-003	-1.686375E-001	-2.135440E-001
295	2	-4.774915E-002	-6.283334E-003	-1.684937E-001	-2.217223E-001
295	3	-4.908058E-002	-6.283390E-003	-1.731897E-001	-2.217175E-001
295	4	-4.911595E-002	-6.051435E-003	-1.733174E-001	-2.135386E-001
295	5	-4.776982E-002	-6.167107E-003	-1.685669E-001	-2.176236E-001
295	6	-4.841464E-002	-6.283288E-003	-1.708415E-001	-2.217170E-001
295	7	-4.909867E-002	-6.167090E-003	-1.732520E-001	-2.176224E-001
295	8	-4.845293E-002	-6.051409E-003	-1.709765E-001	-2.135382E-001
295	9	-4.843391E-002	-6.167307E-003	-1.709891E-001	-2.176227E-001
296	1	-4.604691E-002	-6.535486E-003	-1.624857E-001	-2.306229E-001
296	2	-4.600159E-002	-6.759098E-003	-1.623271E-001	-2.385112E-001
296	3	-4.728391E-002	-6.758978E-003	-1.668536E-001	-2.385035E-001
296	4	-4.732470E-002	-6.535401E-003	-1.669970E-001	-2.306164E-001
296	5	-4.602438E-002	-6.647168E-003	-1.624064E-001	-2.345580E-001
296	6	-4.664316E-002	-6.759094E-003	-1.645899E-001	-2.385083E-001
296	7	-4.730513E-002	-6.647036E-003	-1.669271E-001	-2.345554E-001
296	8	-4.668597E-002	-6.535592E-003	-1.647420E-001	-2.306215E-001
296	9	-4.666461E-002	-6.647072E-003	-1.646652E-001	-2.345551E-001
297	1	-4.443599E-002	-6.905281E-003	-1.568023E-001	-2.436692E-001
297	2	-4.439814E-002	-7.111356E-003	-1.566386E-001	-2.509379E-001
297	3	-4.557161E-002	-7.111223E-003	-1.608885E-001	-2.509339E-001
297	4	-4.561412E-002	-6.905183E-003	-1.609583E-001	-2.436610E-001
297	5	-4.441333E-002	-7.008224E-003	-1.567207E-001	-2.472974E-001
297	6	-4.498042E-002	-7.111362E-003	-1.587238E-001	-2.509361E-001
297	7	-4.559266E-002	-7.008113E-003	-1.608838E-001	-2.472951E-001
297	8	-4.502402E-002	-6.905232E-003	-1.588802E-001	-2.436670E-001
297	9	-4.500283E-002	-7.008119E-003	-1.588016E-001	-2.472944E-001
298	1	-4.291990E-002	-7.170632E-003	-1.514501E-001	-2.530315E-001
298	2	-4.287049E-002	-7.366857E-003	-1.512772E-001	-2.599558E-001
298	3	-4.399549E-002	-7.366686E-003	-1.552456E-001	-2.599505E-001
298	4	-4.404112E-002	-7.170644E-003	-1.554077E-001	-2.530292E-001
298	5	-4.289537E-002	-7.268672E-003	-1.513633E-001	-2.564882E-001
298	6	-4.343247E-002	-7.366823E-003	-1.532611E-001	-2.599524E-001
298	7	-4.401803E-002	-7.268503E-003	-1.553276E-001	-2.564863E-001
298	8	-4.348022E-002	-7.170609E-003	-1.534280E-001	-2.530316E-001
298	9	-4.345649E-002	-7.268598E-003	-1.533453E-001	-2.564873E-001
299	1	-4.176270E-002	-7.380152E-003	-1.473683E-001	-2.604235E-001
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299	3	-4.254689E-002	-7.523780E-003	-1.501362E-001	-2.654937E-001
299	4	-4.258361E-002	-7.380171E-003	-1.502658E-001	-2.604256E-001
299	5	-4.174322E-002	-7.451996E-003	-1.472988E-001	-2.629567E-001
299	6	-4.213510E-002	-7.523834E-003	-1.486823E-001	-2.654934E-001
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299	9	-4.215426E-002	-7.451914E-003	-1.487582E-001	-2.629571E-001
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300	2	-3.885273E-002	-7.669797E-003	-1.378999E-001	-2.706479E-001
300	3	-4.121784E-002	-7.669769E-003	-1.454460E-001	-2.706430E-001
300	4	-4.133516E-002	-7.257953E-003	-1.458602E-001	-2.561086E-001
300	5	-3.891680E-002	-7.463469E-003	-1.373272E-001	-2.633640E-001
300	6	-4.003496E-002	-7.669895E-003	-1.412724E-001	-2.706459E-001
300	7	-4.127673E-002	-7.463239E-003	-1.456528E-001	-2.633606E-001
300	8	-4.015821E-002	-7.257946E-003	-1.417073E-001	-2.561114E-001
300	9	-4.009712E-002	-7.463354E-003	-1.414904E-001	-2.633636E-001
301	1	-5.097132E-002	-8.080053E-003	-1.798620E-001	-2.851511E-001
301	2	-5.162621E-004	-6.156007E-005	-1.821746E-001	-2.172298E-001
301	3	-4.059495E-002	-6.156879E-003	-1.432485E-001	-2.172594E-001
301	4	-3.997786E-002	-8.081995E-003	-1.410676E-001	-2.851803E-001
301	5	-5.129793E-004	-7.120128E-005	-1.818150E-001	-2.512518E-001
301	6	-4.611105E-002	-6.156541E-003	-1.627123E-001	-2.172461E-001
301	7	-4.028532E-002	-7.121141E-003	-1.421553E-001	-2.512844E-001
301	8	-4.547467E-002	-8.081375E-003	-1.604669E-001	-2.851672E-001
301	9	-4.579239E-002	-7.120633E-003	-1.615881E-001	-2.512607E-001
302	1	-4.666922E-004	-6.470639E-005	-1.646020E-001	-2.283305E-001
302	2	-4.630879E-004	-7.457324E-005	-1.634092E-001	-2.631469E-001
302	3	-5.196139E-004	-7.456980E-005	-1.833581E-001	-2.631316E-001
302	4	-5.230286E-004	-6.470059E-005	-1.845626E-001	-2.283097E-001
302	5	-4.648961E-004	-6.963150E-005	-1.640467E-001	-2.457083E-001
302	6	-4.913514E-004	-7.457122E-005	-1.733826E-001	-2.631398E-001
302	7	-5.213275E-004	-6.962605E-005	-1.839613E-001	-2.456912E-001
302	8	-4.948596E-004	-6.470473E-005	-1.746219E-001	-2.283258E-001
302	9	-4.931182E-004	-6.962955E-005	-1.740038E-001	-2.457039E-001
303	1	-4.235313E-004	-3.119862E-005	-1.494519E-001	-1.100807E-001
303	2	-4.206985E-004	-3.843433E-005	-1.484513E-001	-1.356244E-001
303	3	-4.621509E-004	-3.843274E-005	-1.630803E-001	-1.356175E-001
303	4	-4.648378E-004	-3.119589E-005	-1.640281E-001	-1.100786E-001
303	5	-4.221167E-004	-3.401148E-005	-1.489531E-001	-1.228347E-001
303	6	-4.414257E-004	-3.843267E-005	-1.557656E-001	-1.356207E-001
303	7	-4.634924E-004	-3.480734E-005	-1.635529E-001	-1.228251E-001
303	8	-4.441798E-004	-3.119632E-005	-1.567382E-001	-1.100855E-001
303	9	-4.428042E-004	-3.480957E-005	-1.562530E-001	-1.228328E-001
304	1	-4.206034E-004	-3.671654E-005	-1.484193E-001	-1.295571E-001
304	2	-4.209412E-004	-3.591159E-005	-1.485369E-001	-1.267234E-001
304	3	-4.163298E-004	-3.591316E-005	-1.469124E-001	-1.267229E-001
304	4	-4.160179E-004	-3.671546E-005	-1.467987E-001	-1.295593E-001
304	5	-4.207728E-004	-3.631480E-005	-1.484792E-001	-1.281429E-001
304	6	-4.186324E-004	-3.591260E-005	-1.477234E-001	-1.267233E-001
304	7	-4.161783E-004	-3.631579E-005	-1.468559E-001	-1.281444E-001
304	8	-4.183115E-004	-3.671662E-005	-1.476090E-001	-1.295582E-001
304	9	-4.184738E-004	-3.631460E-005	-1.476667E-001	-1.281448E-001
305	1	-4.261989E-004	-3.076614E-005	-1.503917E-001	-1.085566E-001
305	2	-4.263552E-004	-3.039254E-005	-1.504496E-001	-1.072484E-001
305	3	-4.242276E-004	-3.039353E-005	-1.496983E-001	-1.072489E-001
305	4	-4.240740E-004	-3.076557E-005	-1.496437E-001	-1.085624E-001
305	5	-4.262797E-004	-3.057980E-005	-1.504217E-001	-1.079042E-001
305	6	-4.252929E-004	-3.039379E-005	-1.500736E-001	-1.072475E-001
305	7	-4.241505E-004	-3.057929E-005	-1.496702E-001	-1.079043E-001
305	8	-4.251305E-004	-3.076478E-005	-1.500178E-001	-1.085608E-001
305	9	-4.252172E-004	-3.057961E-005	-1.500458E-001	-1.079058E-001
306	1	-4.335644E-004	-2.455338E-005	-1.529934E-001	-8.664379E-002
306	2	-4.338804E-004	-2.389609E-005	-1.531045E-001	-8.432062E-002
306	3	-4.301812E-004	-2.389470E-005	-1.517706E-001	-8.431996E-002
306	4	-4.298147E-004	-2.455395E-005	-1.516604E-001	-8.664316E-002
306	5	-4.337234E-004	-2.422609E-005	-1.530487E-001	-8.548415E-002
306	6	-4.319921E-004	-2.389588E-005	-1.524377E-001	-8.432180E-002
306	7	-4.299583E-004	-2.422545E-005	-1.517192E-001	-8.548510E-002

306	8	-4.316914E-004	-2.455337E-005	-1.523309E-001	-8.664285E-002
306	9	-4.318399E-004	-2.422577E-005	-1.523043E-001	-8.548558E-002
307	1	-5.420915E-002	-5.166566E-004	-1.912901E-001	-1.822935E-002
307	2	-5.420927E-002	-5.333576E-004	-1.912888E-001	-1.881960E-002
307	3	-5.430605E-002	-5.334318E-004	-1.916389E-001	-1.882193E-002
307	4	-5.430528E-002	-5.165262E-004	-1.916302E-001	-1.822655E-002
307	5	-5.421007E-002	-5.250213E-004	-1.912903E-001	-1.852386E-002
307	6	-5.425783E-002	-5.332580E-004	-1.914593E-001	-1.881746E-002
307	7	-5.430657E-002	-5.250141E-004	-1.916317E-001	-1.852201E-002
307	8	-5.425782E-002	-5.166212E-004	-1.914603E-001	-1.823081E-002
307	9	-5.425796E-002	-5.249989E-004	-1.914606E-001	-1.852484E-002
308	1	-5.365000E-002	-1.611401E-003	-1.893152E-001	-5.686165E-002
308	2	-5.364639E-002	-1.690833E-003	-1.893018E-001	-5.963890E-002
308	3	-5.409976E-002	-1.690831E-003	-1.909038E-001	-5.963514E-002
308	4	-5.410241E-002	-1.611375E-003	-1.909119E-001	-5.685926E-002
308	5	-5.364796E-002	-1.650707E-003	-1.893095E-001	-5.824920E-002
308	6	-5.387318E-002	-1.690882E-003	-1.901025E-001	-5.963673E-002
308	7	-5.410146E-002	-1.650627E-003	-1.909083E-001	-5.824437E-002
308	8	-5.387587E-002	-1.611388E-003	-1.901131E-001	-5.686237E-002
308	9	-5.387472E-002	-1.650656E-003	-1.901077E-001	-5.824643E-002
309	1	-5.271434E-002	-2.649318E-003	-1.860141E-001	-9.348717E-002
309	2	-5.270516E-002	-2.773378E-003	-1.859809E-001	-9.786459E-002
309	3	-5.342089E-002	-2.773307E-003	-1.885069E-001	-9.786195E-002
309	4	-5.342799E-002	-2.649195E-003	-1.885300E-001	-9.348872E-002
309	5	-5.270990E-002	-2.711267E-003	-1.859978E-001	-9.567113E-002
309	6	-5.306301E-002	-2.773468E-003	-1.872433E-001	-9.786366E-002
309	7	-5.342433E-002	-2.711208E-003	-1.885178E-001	-9.566872E-002
309	8	-5.307061E-002	-2.649324E-003	-1.872710E-001	-9.348698E-002
309	9	-5.306690E-002	-2.711256E-003	-1.872582E-001	-9.567052E-002
310	1	-5.146632E-002	-3.601286E-003	-1.816895E-001	-1.270771E-001
310	2	-5.145254E-002	-3.763536E-003	-1.815602E-001	-1.328042E-001
310	3	-5.238871E-002	-3.763522E-003	-1.848648E-001	-1.328050E-001
310	4	-5.240133E-002	-3.601151E-003	-1.849106E-001	-1.270704E-001
310	5	-5.145957E-002	-3.682400E-003	-1.815855E-001	-1.299373E-001
310	6	-5.192851E-002	-3.763516E-003	-1.832121E-001	-1.328034E-001
310	7	-5.239543E-002	-3.682257E-003	-1.848887E-001	-1.299343E-001
310	8	-5.193433E-002	-3.601121E-003	-1.832603E-001	-1.270747E-001
310	9	-5.192748E-002	-3.682318E-003	-1.832371E-001	-1.299389E-001
311	1	-5.082068E-002	-4.448581E-003	-1.765078E-001	-1.569799E-001
311	2	-4.999751E-002	-4.636180E-003	-1.764261E-001	-1.635944E-001
311	3	-5.108067E-002	-4.636051E-003	-1.802501E-001	-1.635914E-001
311	4	-5.109032E-002	-4.448363E-003	-1.803103E-001	-1.569741E-001
311	5	-5.000919E-002	-4.542223E-003	-1.764671E-001	-1.602795E-001
311	6	-5.053947E-002	-4.636042E-003	-1.783382E-001	-1.635937E-001
311	7	-5.108979E-002	-4.542125E-003	-1.802807E-001	-1.602752E-001
311	8	-5.055962E-002	-4.448539E-003	-1.784091E-001	-1.569773E-001
311	9	-5.054929E-002	-4.542133E-003	-1.783737E-001	-1.602779E-001
312	1	-4.845877E-002	-5.178275E-003	-1.709976E-001	-1.827268E-001
312	2	-4.842877E-002	-5.377678E-003	-1.708914E-001	-1.897605E-001
312	3	-4.957755E-002	-5.377472E-003	-1.749456E-001	-1.897555E-001
312	4	-4.960382E-002	-5.178134E-003	-1.750372E-001	-1.827205E-001
312	5	-4.844401E-002	-5.277764E-003	-1.709437E-001	-1.862357E-001
312	6	-4.900312E-002	-5.377649E-003	-1.729184E-001	-1.897606E-001
312	7	-4.959103E-002	-5.277598E-003	-1.749928E-001	-1.862316E-001
312	8	-4.903154E-002	-5.178174E-003	-1.730167E-001	-1.827211E-001
312	9	-4.901739E-002	-5.277677E-003	-1.729676E-001	-1.862346E-001
313	1	-4.686996E-002	-5.786442E-003	-1.653900E-001	-2.041878E-001
313	2	-4.683407E-002	-5.988526E-003	-1.652659E-001	-2.113175E-001
313	3	-4.799890E-002	-5.988420E-003	-1.693747E-001	-2.113146E-001
313	4	-4.803081E-002	-5.786282E-003	-1.694854E-001	-2.041834E-001

313	5	-4.685243E-002	-5.887336E-003	-1.653271E-001	-2.077452E-001
313	6	-4.741664E-002	-5.988395E-003	-1.673202E-001	-2.113117E-001
313	7	-4.801510E-002	-5.887186E-003	-1.694290E-001	-2.077428E-001
313	8	-4.745018E-002	-5.786332E-003	-1.674383E-001	-2.041830E-001
313	9	-4.743342E-002	-5.887261E-003	-1.673788E-001	-2.077402E-001
314	1	-4.532815E-002	-6.279303E-003	-1.599500E-001	-2.215810E-001
314	2	-4.528882E-002	-6.474577E-003	-1.598106E-001	-2.284713E-001
314	3	-4.641487E-002	-6.474513E-003	-1.637841E-001	-2.284677E-001
314	4	-4.644971E-002	-6.279232E-003	-1.639085E-001	-2.215710E-001
314	5	-4.530850E-002	-6.376812E-003	-1.598804E-001	-2.250181E-001
314	6	-4.585199E-002	-6.474513E-003	-1.617981E-001	-2.284663E-001
314	7	-4.643203E-002	-6.376571E-003	-1.638447E-001	-2.250167E-001
314	8	-4.588911E-002	-6.279257E-003	-1.619293E-001	-2.215779E-001
314	9	-4.587068E-002	-6.376760E-003	-1.618637E-001	-2.250151E-001
315	1	-4.387370E-002	-6.664138E-003	-1.548169E-001	-2.351573E-001
315	2	-4.382956E-002	-6.848563E-003	-1.546633E-001	-2.416652E-001
315	3	-4.489414E-002	-6.848389E-003	-1.584172E-001	-2.416583E-001
315	4	-4.493260E-002	-6.663922E-003	-1.585541E-001	-2.351576E-001
315	5	-4.385264E-002	-6.756166E-003	-1.547414E-001	-2.384044E-001
315	6	-4.436157E-002	-6.848478E-003	-1.565488E-001	-2.416618E-001
315	7	-4.491301E-002	-6.755993E-003	-1.584862E-001	-2.384009E-001
315	8	-4.440318E-002	-6.664179E-003	-1.566858E-001	-2.351606E-001
315	9	-4.438256E-002	-6.756088E-003	-1.566134E-001	-2.384004E-001
316	1	-4.259388E-002	-6.958404E-003	-1.503004E-001	-2.455415E-001
316	2	-4.255881E-002	-7.118797E-003	-1.501490E-001	-2.512042E-001
316	3	-4.347561E-002	-7.118613E-003	-1.534112E-001	-2.511964E-001
316	4	-4.351472E-002	-6.958148E-003	-1.535501E-001	-2.455360E-001
316	5	-4.257211E-002	-7.038368E-003	-1.502255E-001	-2.483675E-001
316	6	-4.301395E-002	-7.118888E-003	-1.517814E-001	-2.512028E-001
316	7	-4.349483E-002	-7.038399E-003	-1.534800E-001	-2.483611E-001
316	8	-4.305390E-002	-6.958272E-003	-1.519255E-001	-2.455387E-001
316	9	-4.303364E-002	-7.038384E-003	-1.518537E-001	-2.483649E-001
317	1	-4.111268E-002	-7.132913E-003	-1.450749E-001	-2.516961E-001
317	2	-4.105572E-002	-7.330591E-003	-1.448738E-001	-2.586757E-001
317	3	-4.219451E-002	-7.330551E-003	-1.488914E-001	-2.586733E-001
317	4	-4.224785E-002	-7.132818E-003	-1.490797E-001	-2.516962E-001
317	5	-4.108402E-002	-7.231534E-003	-1.449755E-001	-2.551822E-001
317	6	-4.162534E-002	-7.330514E-003	-1.468829E-001	-2.586733E-001
317	7	-4.222129E-002	-7.231388E-003	-1.489848E-001	-2.551747E-001
317	8	-4.168038E-002	-7.132726E-003	-1.470784E-001	-2.516916E-001
317	9	-4.165208E-002	-7.231521E-003	-1.469798E-001	-2.551813E-001
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318	3	-4.181814E-002	-7.214654E-003	-1.447409E-001	-2.545846E-001
318	4	-4.098504E-002	-7.327055E-003	-1.446244E-001	-2.585478E-001
318	5	-4.164755E-002	-7.270765E-003	-1.469617E-001	-2.565658E-001
318	6	-4.134103E-002	-7.214584E-003	-1.458820E-001	-2.545830E-001
318	7	-4.100169E-002	-7.270870E-003	-1.446825E-001	-2.565682E-001
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319	1	-3.530537E-002	-7.237355E-003	-1.245827E-001	-2.553827E-001
319	2	-3.497245E-002	-8.218021E-003	-1.234092E-001	-2.899932E-001
319	3	-4.062967E-002	-8.217499E-003	-1.433691E-001	-2.899680E-001
319	4	-4.093321E-002	-7.236530E-003	-1.444425E-001	-2.553574E-001
319	5	-3.513952E-002	-7.726500E-003	-1.239962E-001	-2.726446E-001
319	6	-3.780119E-002	-8.217857E-003	-1.333886E-001	-2.899834E-001
319	7	-4.078234E-002	-7.725795E-003	-1.439978E-001	-2.726197E-001
319	8	-3.811920E-002	-7.237071E-003	-1.345111E-001	-2.553713E-001
319	9	-3.796034E-002	-7.726118E-003	-1.339514E-001	-2.726337E-001
320	1	-3.461869E-004	-6.293962E-005	-1.221318E-001	-2.220959E-001

320	2	-3.459981E-004	-6.324391E-005	-1.220911E-001	-2.231658E-001
320	3	-3.477423E-004	-6.324263E-005	-1.227085E-001	-2.231660E-001
320	4	-3.478531E-002	-6.293848E-003	-1.227464E-001	-2.220993E-001
320	5	-3.460477E-004	-6.309874E-005	-1.221094E-001	-2.226290E-001
320	6	-3.460729E-004	-6.324259E-005	-1.224007E-001	-2.231659E-001
320	7	-3.675940E-002	-6.668143E-003	-1.227282E-001	-2.226291E-001
320	8	-3.469810E-004	-6.293983E-005	-1.224382E-001	-2.220932E-001
320	9	-3.469256E-004	-6.309104E-005	-1.224197E-001	-2.226287E-001
321	1	-4.257867E-004	-4.280036E-005	-1.502461E-001	-1.510278E-001
321	2	-4.301014E-004	-3.176208E-005	-1.517710E-001	-1.120772E-001
321	3	-3.665877E-004	-3.176693E-005	-1.293581E-001	-1.120977E-001
321	4	-3.624814E-004	-4.280862E-005	-1.279080E-001	-1.510580E-001
321	5	-4.279392E-004	-3.729011E-005	-1.510082E-001	-1.315872E-001
321	6	-3.983478E-004	-3.176470E-005	-1.405658E-001	-1.120894E-001
321	7	-3.645302E-004	-3.729721E-005	-1.286323E-001	-1.316118E-001
321	8	-3.941424E-004	-4.280450E-005	-1.390806E-001	-1.510449E-001
321	9	-3.962393E-004	-3.729420E-005	-1.390213E-001	-1.315985E-001
322	1	-4.288106E-004	-3.523274E-005	-1.513144E-001	-1.243232E-001
322	2	-4.282312E-004	-3.662747E-005	-1.511088E-001	-1.292480E-001
322	3	-4.362586E-004	-3.662708E-005	-1.539419E-001	-1.292454E-001
322	4	-4.368143E-004	-3.523093E-005	-1.541377E-001	-1.243227E-001
322	5	-4.285194E-004	-3.592938E-005	-1.512134E-001	-1.267844E-001
322	6	-4.322438E-004	-3.662790E-005	-1.525262E-001	-1.292479E-001
322	7	-4.365371E-004	-3.592771E-005	-1.540419E-001	-1.267791E-001
322	8	-4.328068E-004	-3.523200E-005	-1.527257E-001	-1.243223E-001
322	9	-4.325269E-004	-3.592854E-005	-1.526261E-001	-1.267798E-001
323	1	-4.381448E-004	-3.244568E-005	-1.546064E-001	-1.144878E-001
323	2	-4.387906E-004	-3.102445E-005	-1.548366E-001	-1.094771E-001
323	3	-4.305973E-004	-3.102599E-005	-1.519450E-001	-1.094802E-001
323	4	-4.299995E-004	-3.244638E-005	-1.517335E-001	-1.144983E-001
323	5	-4.384618E-004	-3.173741E-005	-1.547205E-001	-1.119892E-001
323	6	-4.346982E-004	-3.102550E-005	-1.533908E-001	-1.094805E-001
323	7	-4.302980E-004	-3.173733E-005	-1.518390E-001	-1.119933E-001
323	8	-4.340697E-004	-3.244510E-005	-1.531709E-001	-1.144898E-001
323	9	-4.343824E-004	-3.173691E-005	-1.532802E-001	-1.119922E-001
324	1	-4.466322E-004	-2.535548E-005	-1.576036E-001	-8.947089E-002
324	2	-4.469201E-004	-2.473788E-005	-1.577064E-001	-8.729892E-002
324	3	-4.433694E-004	-2.473748E-005	-1.564519E-001	-8.729296E-002
324	4	-4.430808E-004	-2.535705E-005	-1.563524E-001	-8.947561E-002
324	5	-4.467801E-004	-2.504730E-005	-1.576532E-001	-8.838488E-002
324	6	-4.451462E-004	-2.473741E-005	-1.570790E-001	-8.729307E-002
324	7	-4.432308E-004	-2.504737E-005	-1.564022E-001	-8.838478E-002
324	8	-4.448601E-004	-2.535472E-005	-1.569769E-001	-8.947283E-002
324	9	-4.450011E-004	-2.504719E-005	-1.570282E-001	-8.838258E-002
325	1	-5.230110E-002	-4.915603E-004	-1.845533E-001	-1.734336E-002
325	2	-5.230097E-002	-5.115474E-004	-1.845547E-001	-1.805075E-002
325	3	-5.241680E-002	-5.114681E-004	-1.849638E-001	-1.805245E-002
325	4	-5.241687E-002	-4.914418E-004	-1.849628E-001	-1.734453E-002
325	5	-5.230057E-002	-5.015148E-004	-1.845530E-001	-1.769644E-002
325	6	-5.235084E-002	-5.115825E-004	-1.847587E-001	-1.805867E-002
325	7	-5.241683E-002	-5.015319E-004	-1.849639E-001	-1.769645E-002
325	8	-5.235895E-002	-4.915549E-004	-1.847589E-001	-1.734186E-002
325	9	-5.235866E-002	-5.015233E-004	-1.847586E-001	-1.769610E-002
326	1	-5.182986E-002	-1.523903E-003	-1.828937E-001	-5.377482E-002
326	2	-5.182811E-002	-1.590591E-003	-1.828858E-001	-5.612376E-002
326	3	-5.221380E-002	-1.590449E-003	-1.842477E-001	-5.612197E-002
326	4	-5.221469E-002	-1.523851E-003	-1.842511E-001	-5.377293E-002
326	5	-5.182859E-002	-1.557096E-003	-1.828895E-001	-5.494500E-002
326	6	-5.202861E-002	-1.590410E-003	-1.835665E-001	-5.612141E-002
326	7	-5.221466E-002	-1.557020E-003	-1.842503E-001	-5.494539E-002

326	8	-5.202266E-002	-1.523877E-003	-1.835724E-001	-5.377292E-002
326	9	-5.202157E-002	-1.557096E-003	-1.835685E-001	-5.494294E-002
327	1	-5.103140E-002	-2.509341E-003	-1.800752E-001	-8.854978E-002
327	2	-5.102311E-002	-2.615963E-003	-1.800475E-001	-9.231064E-002
327	3	-5.164227E-002	-2.615876E-003	-1.822307E-001	-9.230474E-002
327	4	-5.164637E-002	-2.509319E-003	-1.822461E-001	-8.854341E-002
327	5	-5.102698E-002	-2.562543E-003	-1.800594E-001	-9.042326E-002
327	6	-5.133291E-002	-2.615986E-003	-1.811391E-001	-9.230876E-002
327	7	-5.164464E-002	-2.562458E-003	-1.822391E-001	-9.041958E-002
327	8	-5.133891E-002	-2.509368E-003	-1.811607E-001	-8.854781E-002
327	9	-5.133586E-002	-2.562449E-003	-1.811501E-001	-9.042358E-002
328	1	-4.996250E-002	-3.420387E-003	-1.763031E-001	-1.206950E-001
328	2	-4.994924E-002	-3.557787E-003	-1.762560E-001	-1.255447E-001
328	3	-5.074598E-002	-3.557650E-003	-1.790665E-001	-1.255411E-001
328	4	-5.075671E-002	-3.420145E-003	-1.791045E-001	-1.206876E-001
328	5	-4.995607E-002	-3.488880E-003	-1.762811E-001	-1.231144E-001
328	6	-5.034697E-002	-3.557617E-003	-1.776618E-001	-1.255415E-001
328	7	-5.075138E-002	-3.488787E-003	-1.790858E-001	-1.231113E-001
328	8	-5.036001E-002	-3.420274E-003	-1.777030E-001	-1.206926E-001
328	9	-5.035330E-002	-3.488950E-003	-1.776823E-001	-1.231108E-001
329	1	-4.870407E-002	-4.238340E-003	-1.718622E-001	-1.495581E-001
329	2	-4.868342E-002	-4.398291E-003	-1.717916E-001	-1.552029E-001
329	3	-4.961250E-002	-4.398132E-003	-1.750671E-001	-1.551955E-001
329	4	-4.962081E-002	-4.238140E-003	-1.751268E-001	-1.495512E-001
329	5	-4.869349E-002	-4.318232E-003	-1.718257E-001	-1.523745E-001
329	6	-4.914824E-002	-4.398248E-003	-1.734297E-001	-1.552019E-001
329	7	-4.962048E-002	-4.318062E-003	-1.750976E-001	-1.523719E-001
329	8	-4.916633E-002	-4.238248E-003	-1.734947E-001	-1.495597E-001
329	9	-4.915750E-002	-4.318136E-003	-1.734617E-001	-1.523720E-001
330	1	-4.734063E-002	-4.952343E-003	-1.670523E-001	-1.747521E-001
330	2	-4.731498E-002	-5.124370E-003	-1.669623E-001	-1.808249E-001
330	3	-4.831186E-002	-5.124241E-003	-1.704759E-001	-1.808216E-001
330	4	-4.833375E-002	-4.952154E-003	-1.705551E-001	-1.747444E-001
330	5	-4.732014E-002	-5.038212E-003	-1.670808E-001	-1.777849E-001
330	6	-4.781379E-002	-5.124457E-003	-1.687200E-001	-1.808231E-001
330	7	-4.832298E-002	-5.038079E-003	-1.705164E-001	-1.777798E-001
330	8	-4.783699E-002	-4.952249E-003	-1.688036E-001	-1.747501E-001
330	9	-4.782557E-002	-5.038073E-003	-1.687621E-001	-1.777825E-001
331	1	-4.594741E-002	-5.556786E-003	-1.621360E-001	-1.960779E-001
331	2	-4.591724E-002	-5.731688E-003	-1.620273E-001	-2.022533E-001
331	3	-4.692980E-002	-5.731671E-003	-1.656033E-001	-2.022535E-001
331	4	-4.695741E-002	-5.556729E-003	-1.656980E-001	-1.960771E-001
331	5	-4.593177E-002	-5.644856E-003	-1.620823E-001	-1.991638E-001
331	6	-4.642373E-002	-5.731674E-003	-1.638151E-001	-2.022545E-001
331	7	-4.694393E-002	-5.643946E-003	-1.656504E-001	-1.991591E-001
331	8	-4.645227E-002	-5.556589E-003	-1.639164E-001	-1.960794E-001
331	9	-4.643882E-002	-5.644061E-003	-1.638664E-001	-1.991621E-001
332	1	-4.458828E-002	-6.056171E-003	-1.573374E-001	-2.137022E-001
332	2	-4.455161E-002	-6.226206E-003	-1.572108E-001	-2.197018E-001
332	3	-4.553780E-002	-6.226012E-003	-1.606983E-001	-2.196982E-001
332	4	-4.556854E-002	-6.056053E-003	-1.607991E-001	-2.136989E-001
332	5	-4.456964E-002	-6.140867E-003	-1.572752E-001	-2.166967E-001
332	6	-4.504508E-002	-6.226115E-003	-1.589502E-001	-2.197018E-001
332	7	-4.555340E-002	-6.140743E-003	-1.607442E-001	-2.166886E-001
332	8	-4.507855E-002	-6.056061E-003	-1.590681E-001	-2.137004E-001
332	9	-4.506171E-002	-6.140765E-003	-1.590104E-001	-2.166920E-001
333	1	-4.330971E-002	-6.455913E-003	-1.528272E-001	-2.278141E-001
333	2	-4.327322E-002	-6.614573E-003	-1.526997E-001	-2.334076E-001
333	3	-4.419100E-002	-6.614409E-003	-1.559366E-001	-2.334019E-001
333	4	-4.422515E-002	-6.455738E-003	-1.560575E-001	-2.278042E-001

333	5	-4.329054E-002	-6.535151E-003	-1.527623E-001	-2.306083E-001
333	6	-4.373218E-002	-6.614438E-003	-1.543182E-001	-2.334048E-001
333	7	-4.420014E-002	-6.535106E-003	-1.559984E-001	-2.306002E-001
333	8	-4.376714E-002	-6.455795E-003	-1.544423E-001	-2.278072E-001
333	9	-4.374984E-002	-6.535127E-003	-1.543800E-001	-2.306042E-001
334	1	-4.209862E-002	-6.760237E-003	-1.485535E-001	-2.385513E-001
334	2	-4.205839E-002	-6.912729E-003	-1.484121E-001	-2.439336E-001
334	3	-4.294319E-002	-6.912794E-003	-1.515333E-001	-2.439293E-001
334	4	-4.297857E-002	-6.759943E-003	-1.516578E-001	-2.385439E-001
334	5	-4.207888E-002	-6.836341E-003	-1.484833E-001	-2.412345E-001
334	6	-4.250045E-002	-6.912749E-003	-1.499713E-001	-2.439306E-001
334	7	-4.296042E-002	-6.836192E-003	-1.515960E-001	-2.412293E-001
334	8	-4.253859E-002	-6.760149E-003	-1.501048E-001	-2.385464E-001
334	9	-4.251962E-002	-6.836276E-003	-1.500396E-001	-2.412312E-001
335	1	-4.123065E-002	-6.986437E-003	-1.454898E-001	-2.465312E-001
335	2	-4.120862E-002	-7.089261E-003	-1.453844E-001	-2.501585E-001
335	3	-4.179573E-002	-7.089111E-003	-1.474847E-001	-2.501538E-001
335	4	-4.182373E-002	-6.986392E-003	-1.475845E-001	-2.465252E-001
335	5	-4.121565E-002	-7.037778E-003	-1.454376E-001	-2.483396E-001
335	6	-4.149789E-002	-7.089146E-003	-1.464358E-001	-2.501562E-001
335	7	-4.180979E-002	-7.037564E-003	-1.475347E-001	-2.483336E-001
335	8	-4.152739E-002	-6.986463E-003	-1.465374E-001	-2.465250E-001
335	9	-4.151284E-002	-7.037631E-003	-1.464864E-001	-2.483369E-001
336	1	-3.984399E-002	-7.124697E-003	-1.405974E-001	-2.514133E-001
336	2	-3.978386E-002	-7.315653E-003	-1.403846E-001	-2.581480E-001
336	3	-4.088756E-002	-7.315457E-003	-1.442791E-001	-2.581485E-001
336	4	-4.094411E-002	-7.124588E-003	-1.444789E-001	-2.514037E-001
336	5	-3.981295E-002	-7.219925E-003	-1.404889E-001	-2.547714E-001
336	6	-4.033570E-002	-7.315473E-003	-1.423326E-001	-2.581437E-001
336	7	-4.091566E-002	-7.219741E-003	-1.443779E-001	-2.547648E-001
336	8	-4.039359E-002	-7.124632E-003	-1.425376E-001	-2.514079E-001
336	9	-4.036446E-002	-7.219922E-003	-1.424346E-001	-2.547697E-001
337	1	-4.079927E-002	-7.297650E-003	-1.439708E-001	-2.575107E-001
337	2	-4.085992E-002	-7.120567E-003	-1.441819E-001	-2.512645E-001
337	3	-3.983405E-002	-7.120860E-003	-1.405635E-001	-2.512721E-001
337	4	-3.977704E-002	-7.297972E-003	-1.403614E-001	-2.575237E-001
337	5	-4.082982E-002	-7.209244E-003	-1.440767E-001	-2.543924E-001
337	6	-4.034664E-002	-7.128696E-003	-1.423727E-001	-2.512685E-001
337	7	-3.980548E-002	-7.209398E-003	-1.404620E-001	-2.544008E-001
337	8	-4.028831E-002	-7.297632E-003	-1.421658E-001	-2.575184E-001
337	9	-4.031788E-002	-7.209331E-003	-1.422697E-001	-2.543933E-001
338	1	-4.680608E-004	-7.305705E-005	-1.651670E-001	-2.577948E-001
338	2	-4.713123E-004	-6.417611E-005	-1.663111E-001	-2.264603E-001
338	3	-4.199751E-002	-6.418207E-003	-1.481962E-001	-2.264827E-001
338	4	-4.168939E-002	-7.306645E-003	-1.471118E-001	-2.578291E-001
338	5	-4.696797E-004	-6.862392E-005	-1.657371E-001	-2.421534E-001
338	6	-4.456418E-004	-6.417943E-005	-1.572555E-001	-2.264711E-001
338	7	-4.184396E-002	-6.863237E-003	-1.476537E-001	-2.421812E-001
338	8	-3.231900E-002	-5.336341E-003	-1.561384E-001	-2.578109E-001
338	9	-4.440584E-004	-6.862795E-005	-1.566961E-001	-2.421667E-001
339	1	-4.213781E-004	-3.239521E-005	-1.486915E-001	-1.143117E-001
339	2	-4.172815E-004	-4.287055E-005	-1.472489E-001	-1.512818E-001
339	3	-4.778158E-004	-4.286235E-005	-1.686086E-001	-1.512489E-001
339	4	-4.817152E-004	-3.238569E-005	-1.699831E-001	-1.142798E-001
339	5	-4.193411E-004	-3.762476E-005	-1.479728E-001	-1.327652E-001
339	6	-4.475554E-004	-4.286671E-005	-1.579284E-001	-1.512649E-001
339	7	-4.797716E-004	-3.761612E-005	-1.692959E-001	-1.327368E-001
339	8	-4.515468E-004	-3.238952E-005	-1.593377E-001	-1.142957E-001
339	9	-4.495588E-004	-3.761997E-005	-1.586337E-001	-1.327584E-001
340	1	-4.373743E-004	-3.984312E-005	-1.543371E-001	-1.485989E-001

340	2	-4.391665E-004	-3.564244E-005	-1.549780E-001	-1.257735E-001
340	3	-4.140608E-004	-3.564653E-005	-1.463919E-001	-1.257835E-001
340	4	-4.131868E-004	-3.984623E-005	-1.458085E-001	-1.486094E-001
340	5	-4.382706E-004	-3.774761E-005	-1.546532E-001	-1.332029E-001
340	6	-4.270128E-004	-3.564484E-005	-1.586824E-001	-1.257783E-001
340	7	-4.140211E-004	-3.775171E-005	-1.468963E-001	-1.332123E-001
340	8	-4.252839E-004	-3.984343E-005	-1.500780E-001	-1.485983E-001
340	9	-4.261450E-004	-3.774983E-005	-1.503747E-001	-1.332070E-001
341	1	-4.507907E-004	-3.392244E-005	-1.590714E-001	-1.196996E-001
341	2	-4.512853E-004	-3.281181E-005	-1.592442E-001	-1.157832E-001
341	3	-4.448595E-004	-3.281177E-005	-1.569704E-001	-1.157846E-001
341	4	-4.443820E-004	-3.392350E-005	-1.568099E-001	-1.197083E-001
341	5	-4.510379E-004	-3.336771E-005	-1.591583E-001	-1.177421E-001
341	6	-4.480730E-004	-3.281121E-005	-1.581133E-001	-1.157812E-001
341	7	-4.446213E-004	-3.336795E-005	-1.568933E-001	-1.177455E-001
341	8	-4.475843E-004	-3.392376E-005	-1.579392E-001	-1.197059E-001
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385	9	-4.522936E-002	-3.800252E-003	-1.596006E-001	-1.341006E-001
386	1	-4.404676E-002	-4.538471E-003	-1.554286E-001	-1.601457E-001
386	2	-4.472587E-002	-4.538303E-003	-1.578226E-001	-1.601414E-001
386	3	-4.472511E-002	-4.410815E-003	-1.578229E-001	-1.559272E-001
386	4	-4.404656E-002	-4.410895E-003	-1.554310E-001	-1.559313E-001
386	5	-4.438650E-002	-4.538336E-003	-1.566256E-001	-1.601417E-001
386	6	-4.472538E-002	-4.478606E-003	-1.578227E-001	-1.580360E-001
386	7	-4.438658E-002	-4.410885E-003	-1.566256E-001	-1.559273E-001

386	8	-4.404690E-002	-4.478680E-003	-1.554279E-001	-1.580388E-001
386	9	-4.438658E-002	-4.478604E-003	-1.566256E-001	-1.580363E-001
387	1	-4.315065E-002	-5.135317E-003	-1.522633E-001	-1.812082E-001
387	2	-4.384731E-002	-5.135151E-003	-1.547231E-001	-1.812047E-001
387	3	-4.384636E-002	-5.012734E-003	-1.547209E-001	-1.768852E-001
387	4	-4.315036E-002	-5.012882E-003	-1.522666E-001	-1.768924E-001
387	5	-4.349833E-002	-5.135208E-003	-1.534938E-001	-1.812085E-001
387	6	-4.384710E-002	-5.073948E-003	-1.547236E-001	-1.790464E-001
387	7	-4.349833E-002	-5.012928E-003	-1.534938E-001	-1.768920E-001
387	8	-4.315058E-002	-5.074156E-003	-1.522640E-001	-1.790511E-001
387	9	-4.349833E-002	-5.074082E-003	-1.534938E-001	-1.790487E-001
388	1	-4.227205E-002	-5.644797E-003	-1.491668E-001	-1.991878E-001
388	2	-4.295013E-002	-5.644697E-003	-1.515598E-001	-1.991846E-001
388	3	-4.295023E-002	-5.525203E-003	-1.515594E-001	-1.949713E-001
388	4	-4.227236E-002	-5.525476E-003	-1.491661E-001	-1.949762E-001
388	5	-4.261103E-002	-5.644752E-003	-1.503616E-001	-1.991861E-001
388	6	-4.295041E-002	-5.585051E-003	-1.515596E-001	-1.970791E-001
388	7	-4.261103E-002	-5.525300E-003	-1.503616E-001	-1.949718E-001
388	8	-4.227173E-002	-5.585146E-003	-1.491636E-001	-1.970833E-001
388	9	-4.261103E-002	-5.585078E-003	-1.503616E-001	-1.970812E-001
389	1	-4.144585E-002	-6.068868E-003	-1.462513E-001	-2.141569E-001
389	2	-4.208077E-002	-6.068806E-003	-1.484918E-001	-2.141520E-001
389	3	-4.208090E-002	-5.957345E-003	-1.484919E-001	-2.102161E-001
389	4	-4.144551E-002	-5.957397E-003	-1.462494E-001	-2.102215E-001
389	5	-4.176365E-002	-6.068894E-003	-1.473728E-001	-2.141551E-001
389	6	-4.208084E-002	-6.013098E-003	-1.484918E-001	-2.121845E-001
389	7	-4.176322E-002	-5.957400E-003	-1.473719E-001	-2.102182E-001
389	8	-4.144489E-002	-6.013286E-003	-1.462487E-001	-2.121869E-001
389	9	-4.176351E-002	-6.013132E-003	-1.473718E-001	-2.121876E-001
390	1	-6.650684E-005	-2.604755E-005	-2.346748E-001	-9.190863E-001
390	2	-6.341989E-005	-2.680785E-005	-2.237812E-001	-9.459327E-001
390	3	-6.341925E-005	-2.827358E-005	-2.237792E-001	-9.976608E-001
390	4	-6.650598E-005	-2.759834E-005	-2.346758E-001	-9.738245E-001
390	5	-6.491943E-005	-2.643872E-005	-2.290718E-001	-9.328998E-001
390	6	-6.341989E-005	-2.754869E-005	-2.237807E-001	-9.718038E-001
390	7	-6.491903E-005	-2.794559E-005	-2.290713E-001	-9.860802E-001
390	8	-6.650681E-005	-2.682292E-005	-2.346742E-001	-9.464619E-001
390	9	-6.491870E-005	-2.719194E-005	-2.290718E-001	-9.594935E-001
391	1	-4.070893E-002	-6.412499E-003	-1.436212E-001	-2.262793E-001
391	2	-4.127067E-002	-6.412457E-003	-1.456319E-001	-2.262735E-001
391	3	-4.127054E-002	-6.312118E-003	-1.456322E-001	-2.227373E-001
391	4	-4.070074E-002	-6.312222E-003	-1.436205E-001	-2.227420E-001
391	5	-4.098549E-002	-6.412480E-003	-1.446262E-001	-2.262817E-001
391	6	-4.127037E-002	-6.362266E-003	-1.456314E-001	-2.245069E-001
391	7	-4.098540E-002	-6.312300E-003	-1.446253E-001	-2.227428E-001
391	8	-4.070059E-002	-6.362467E-003	-1.436199E-001	-2.245114E-001
391	9	-4.098560E-002	-6.362387E-003	-1.446254E-001	-2.245091E-001
392	1	-4.007721E-002	-6.679728E-003	-1.414206E-001	-2.357104E-001
392	2	-4.054932E-002	-6.679720E-003	-1.430870E-001	-2.357051E-001
392	3	-4.054937E-002	-6.596777E-003	-1.430859E-001	-2.327846E-001
392	4	-4.007683E-002	-6.596984E-003	-1.414210E-001	-2.327867E-001
392	5	-4.031298E-002	-6.679643E-003	-1.422536E-001	-2.357040E-001
392	6	-4.054921E-002	-6.638217E-003	-1.430856E-001	-2.342434E-001
392	7	-4.031368E-002	-6.596841E-003	-1.422538E-001	-2.327824E-001
392	8	-4.007765E-002	-6.638288E-003	-1.414217E-001	-2.342474E-001
392	9	-4.031337E-002	-6.638278E-003	-1.422535E-001	-2.342463E-001
393	1	-3.948227E-002	-6.881533E-003	-1.393229E-001	-2.428302E-001
393	2	-3.994140E-002	-6.881478E-003	-1.409412E-001	-2.428262E-001
393	3	-3.994233E-002	-6.880652E-003	-1.409438E-001	-2.399744E-001
393	4	-3.948257E-002	-6.880681E-003	-1.393209E-001	-2.399758E-001

393	5	-3.971229E-002	-6.881513E-003	-1.401333E-001	-2.428273E-001
393	6	-3.994133E-002	-6.841016E-003	-1.409435E-001	-2.413999E-001
393	7	-3.971229E-002	-6.880637E-003	-1.401333E-001	-2.399732E-001
393	8	-3.948257E-002	-6.841114E-003	-1.393241E-001	-2.414034E-001
393	9	-3.971229E-002	-6.841154E-003	-1.401333E-001	-2.414023E-001
394	1	-3.973396E-002	-6.935240E-003	-1.402089E-001	-2.447223E-001
394	2	-3.945632E-002	-6.935297E-003	-1.392285E-001	-2.447265E-001
394	3	-3.945655E-002	-6.983994E-003	-1.392296E-001	-2.464461E-001
394	4	-3.973391E-002	-6.984026E-003	-1.402081E-001	-2.464420E-001
394	5	-3.959502E-002	-6.935196E-003	-1.397182E-001	-2.447215E-001
394	6	-3.945664E-002	-6.959624E-003	-1.392299E-001	-2.455847E-001
394	7	-3.959478E-002	-6.983969E-003	-1.397195E-001	-2.464408E-001
394	8	-3.973361E-002	-6.959540E-003	-1.402088E-001	-2.455821E-001
394	9	-3.959505E-002	-6.959621E-003	-1.397199E-001	-2.455834E-001
395	1	-3.713409E-002	-7.231869E-003	-1.310367E-001	-2.551907E-001
395	2	-3.943986E-002	-7.231372E-003	-1.391682E-001	-2.551754E-001
395	3	-3.943889E-002	-6.826041E-003	-1.391682E-001	-2.408693E-001
395	4	-3.713486E-002	-6.826533E-003	-1.310385E-001	-2.408840E-001
395	5	-3.828683E-002	-7.231613E-003	-1.351036E-001	-2.551836E-001
395	6	-3.943882E-002	-7.028657E-003	-1.391681E-001	-2.480221E-001
395	7	-3.828688E-002	-6.826228E-003	-1.351033E-001	-2.408747E-001
395	8	-3.713505E-002	-7.029191E-003	-1.310373E-001	-2.480371E-001
395	9	-3.828730E-002	-7.028935E-003	-1.351038E-001	-2.480300E-001
396	1	-6.154516E-004	-4.592667E-005	-2.171738E-001	-1.620608E-001
396	2	-4.219074E-002	-4.855098E-003	-1.409439E-001	-1.621949E-001
396	3	-3.994265E-002	-8.396182E-003	-1.409447E-001	-2.962746E-001
396	4	-6.154508E-004	-8.392670E-005	-2.171739E-001	-2.961540E-001
396	5	-5.074301E-004	-4.594452E-005	-1.790563E-001	-1.621258E-001
396	6	-3.994221E-002	-6.496234E-003	-1.409447E-001	-2.292329E-001
396	7	-5.074301E-004	-8.394432E-005	-1.790563E-001	-2.962175E-001
396	8	-6.154531E-004	-6.492632E-005	-2.171732E-001	-2.291074E-001
396	9	-5.074301E-004	-6.494421E-005	-1.790563E-001	-2.291705E-001
397	1	-4.638521E-004	-5.336985E-005	-1.636797E-001	-1.883255E-001
397	2	-6.236395E-004	-5.333848E-005	-2.200641E-001	-1.882187E-001
397	3	-6.236393E-004	-2.529843E-005	-2.200640E-001	-8.927082E-002
397	4	-4.638536E-004	-2.532724E-005	-1.636792E-001	-8.937069E-002
397	5	-5.437498E-004	-5.335426E-005	-1.918722E-001	-1.882723E-001
397	6	-6.236422E-004	-3.931873E-005	-2.200639E-001	-1.387455E-001
397	7	-5.437492E-004	-2.531198E-005	-1.918721E-001	-8.932075E-002
397	8	-4.638536E-004	-3.934841E-005	-1.636811E-001	-1.388495E-001
397	9	-5.437517E-004	-3.933375E-005	-1.918747E-001	-1.387963E-001
398	1	-4.955127E-004	-3.775268E-005	-1.748509E-001	-1.332184E-001
398	2	-4.475730E-004	-3.776125E-005	-1.579360E-001	-1.332458E-001
398	3	-4.475759E-004	-4.617127E-005	-1.579361E-001	-1.629234E-001
398	4	-4.955030E-004	-4.616224E-005	-1.748499E-001	-1.628937E-001
398	5	-4.715427E-004	-3.775656E-005	-1.663933E-001	-1.332319E-001
398	6	-4.475770E-004	-4.196685E-005	-1.579367E-001	-1.480808E-001
398	7	-4.715427E-004	-4.616755E-005	-1.663933E-001	-1.629118E-001
398	8	-4.955060E-004	-4.195786E-005	-1.748520E-001	-1.480571E-001
398	9	-4.715427E-004	-4.196205E-005	-1.663933E-001	-1.480725E-001
399	1	-5.186781E-004	-3.189275E-005	-1.830261E-001	-1.125393E-001
399	2	-5.045332E-004	-3.189454E-005	-1.780350E-001	-1.125455E-001
399	3	-5.045412E-004	-3.438072E-005	-1.780371E-001	-1.213225E-001
399	4	-5.186759E-004	-3.437723E-005	-1.830255E-001	-1.213098E-001
399	5	-5.116058E-004	-3.189324E-005	-1.805306E-001	-1.125443E-001
399	6	-5.045389E-004	-3.313720E-005	-1.780376E-001	-1.169340E-001
399	7	-5.116058E-004	-3.438089E-005	-1.805306E-001	-1.213189E-001
399	8	-5.186744E-004	-3.313611E-005	-1.830242E-001	-1.169251E-001
399	9	-5.116058E-004	-3.313661E-005	-1.805306E-001	-1.169309E-001
400	1	-5.753914E-005	-2.603880E-005	-2.030294E-001	-9.188057E-001

400	2	-5.273575E-005	-2.705840E-005	-1.860827E-001	-9.544970E-001
400	3	-5.273618E-005	-2.967494E-005	-1.860837E-001	-1.047106E+000
400	4	-5.753863E-005	-2.879587E-005	-2.030275E-001	-1.016082E+000
400	5	-5.507845E-005	-2.655692E-005	-1.943482E-001	-9.379327E-001
400	6	-5.273624E-005	-2.836273E-005	-1.860838E-001	-1.000903E+000
400	7	-5.507817E-005	-2.924625E-005	-1.943470E-001	-1.031976E+000
400	8	-5.753912E-005	-2.741747E-005	-2.030304E-001	-9.674518E-001
400	9	-5.507826E-005	-2.798187E-005	-1.943479E-001	-9.845344E-001
401	1	-6.943781E-005	-2.729553E-005	-2.450168E-001	-9.631590E-001
401	2	-6.727925E-005	-2.782806E-005	-2.374802E-001	-9.819302E-001
401	3	-6.727938E-005	-2.877535E-005	-2.373995E-001	-1.015357E+000
401	4	-6.943908E-005	-2.830336E-005	-2.450183E-001	-9.986968E-001
401	5	-6.832533E-005	-2.756992E-005	-2.410915E-001	-9.728301E-001
401	6	-6.727866E-005	-2.839144E-005	-2.374012E-001	-9.986402E-001
401	7	-6.832533E-005	-2.854637E-005	-2.410915E-001	-1.007277E+000
401	8	-6.943876E-005	-2.779929E-005	-2.450190E-001	-9.809324E-001
401	9	-6.832533E-005	-2.805812E-005	-2.410915E-001	-9.900579E-001
402	1	-6.293970E-005	-2.788693E-005	-2.220861E-001	-9.557769E-001
402	2	-5.883984E-005	-2.794447E-005	-2.076208E-001	-9.868378E-001
402	3	-5.883924E-005	-3.002219E-005	-2.076201E-001	-1.059362E+000
402	4	-6.293935E-005	-2.927769E-005	-2.220855E-001	-1.033082E+000
402	5	-6.083518E-005	-2.752695E-005	-2.146625E-001	-9.713147E-001
402	6	-5.883995E-005	-2.898340E-005	-2.076216E-001	-1.022702E+000
402	7	-6.083518E-005	-2.965996E-005	-2.146625E-001	-1.046570E+000
402	8	-6.293862E-005	-2.818209E-005	-2.220844E-001	-9.944230E-001
402	9	-6.083518E-005	-2.859325E-005	-2.146625E-001	-1.008938E+000
403	1	-7.100406E-005	-2.813881E-005	-2.505453E-001	-9.928882E-001
403	2	-6.992102E-005	-2.840543E-005	-2.467210E-001	-1.002306E+000
403	3	-6.992101E-005	-2.884291E-005	-2.467206E-001	-1.017735E+000
403	4	-7.100510E-005	-2.868536E-005	-2.505474E-001	-1.009361E+000
403	5	-7.044535E-005	-2.827639E-005	-2.485736E-001	-9.977401E-001
403	6	-6.992141E-005	-2.862385E-005	-2.467219E-001	-1.010024E+000
403	7	-7.044502E-005	-2.872771E-005	-2.485732E-001	-1.013678E+000
403	8	-7.100586E-005	-2.837180E-005	-2.505525E-001	-1.001118E+000
403	9	-7.044501E-005	-2.850228E-005	-2.485725E-001	-1.005728E+000
404	1	-6.738486E-005	-2.788078E-005	-2.377727E-001	-9.838810E-001
404	2	-6.403105E-005	-2.858763E-005	-2.259392E-001	-1.008733E+000
404	3	-6.403099E-005	-3.018022E-005	-2.259396E-001	-1.064938E+000
404	4	-6.738477E-005	-2.956636E-005	-2.377727E-001	-1.043277E+000
404	5	-6.565954E-005	-2.824448E-005	-2.316865E-001	-9.966276E-001
404	6	-6.403019E-005	-2.938405E-005	-2.259353E-001	-1.036840E+000
404	7	-6.565955E-005	-2.988245E-005	-2.316869E-001	-1.054417E+000
404	8	-6.738630E-005	-2.872375E-005	-2.377736E-001	-1.013542E+000
404	9	-6.566006E-005	-2.906336E-005	-2.316869E-001	-1.025526E+000
405	1	-4.561865E-002	-4.422028E-004	-1.609761E-001	-1.560660E-002
405	2	-4.568895E-002	-4.421527E-004	-1.612225E-001	-1.560284E-002
405	3	-4.568903E-002	-4.299290E-004	-1.612226E-001	-1.516909E-002
405	4	-4.561957E-002	-4.299713E-004	-1.609759E-001	-1.517094E-002
405	5	-4.565400E-002	-4.422320E-004	-1.610991E-001	-1.560568E-002
405	6	-4.568895E-002	-4.360436E-004	-1.612225E-001	-1.538756E-002
405	7	-4.565400E-002	-4.299893E-004	-1.610991E-001	-1.517127E-002
405	8	-4.561911E-002	-4.361311E-004	-1.609760E-001	-1.538782E-002
405	9	-4.565400E-002	-4.360967E-004	-1.610991E-001	-1.538927E-002
406	1	-4.537026E-002	-1.318320E-003	-1.600955E-001	-4.651965E-002
406	2	-4.557855E-002	-1.318262E-003	-1.608335E-001	-4.651879E-002
406	3	-4.557846E-002	-1.281561E-003	-1.608340E-001	-4.522535E-002
406	4	-4.537006E-002	-1.281611E-003	-1.600993E-001	-4.522659E-002
406	5	-4.547448E-002	-1.318394E-003	-1.604654E-001	-4.651961E-002
406	6	-4.557796E-002	-1.299985E-003	-1.608336E-001	-4.587159E-002
406	7	-4.547453E-002	-1.281655E-003	-1.604650E-001	-4.522406E-002

406	8	-4.537088E-002	-1.300009E-003	-1.600988E-001	-4.587130E-002
406	9	-4.547451E-002	-1.299927E-003	-1.604652E-001	-4.587270E-002
407	1	-4.494922E-002	-2.168501E-003	-1.586143E-001	-7.652332E-002
407	2	-4.528987E-002	-2.168566E-003	-1.598152E-001	-7.652209E-002
407	3	-4.529002E-002	-2.108543E-003	-1.598169E-001	-7.440503E-002
407	4	-4.494936E-002	-2.108689E-003	-1.586130E-001	-7.440525E-002
407	5	-4.511964E-002	-2.168540E-003	-1.592131E-001	-7.652620E-002
407	6	-4.529012E-002	-2.138551E-003	-1.598157E-001	-7.546381E-002
407	7	-4.511993E-002	-2.108606E-003	-1.592155E-001	-7.440839E-002
407	8	-4.494889E-002	-2.138638E-003	-1.586111E-001	-7.546537E-002
407	9	-4.511942E-002	-2.138595E-003	-1.592129E-001	-7.546397E-002
408	1	-4.438502E-002	-2.973241E-003	-1.566210E-001	-1.049163E-001
408	2	-4.483416E-002	-2.973275E-003	-1.582064E-001	-1.049154E-001
408	3	-4.483445E-002	-2.894042E-003	-1.582070E-001	-1.021255E-001
408	4	-4.438435E-002	-2.894049E-003	-1.566228E-001	-1.021255E-001
408	5	-4.460984E-002	-2.973053E-003	-1.574143E-001	-1.049120E-001
408	6	-4.483448E-002	-2.933598E-003	-1.582066E-001	-1.035168E-001
408	7	-4.460984E-002	-2.894114E-003	-1.574139E-001	-1.021236E-001
408	8	-4.438547E-002	-2.933689E-003	-1.566235E-001	-1.035202E-001
408	9	-4.460932E-002	-2.933684E-003	-1.574138E-001	-1.035198E-001
409	1	-4.371643E-002	-3.715930E-003	-1.542634E-001	-1.311227E-001
409	2	-4.424362E-002	-3.715729E-003	-1.561226E-001	-1.311201E-001
409	3	-4.424308E-002	-3.623443E-003	-1.561220E-001	-1.278594E-001
409	4	-4.371753E-002	-3.623434E-003	-1.542659E-001	-1.278628E-001
409	5	-4.397958E-002	-3.715816E-003	-1.551920E-001	-1.311196E-001
409	6	-4.424292E-002	-3.669638E-003	-1.561215E-001	-1.294885E-001
409	7	-4.398034E-002	-3.623399E-003	-1.551915E-001	-1.278592E-001
409	8	-4.371721E-002	-3.669665E-003	-1.542628E-001	-1.294919E-001
409	9	-4.397984E-002	-3.669682E-003	-1.551914E-001	-1.294908E-001
410	1	-4.298625E-002	-4.387034E-003	-1.516855E-001	-1.548048E-001
410	2	-4.355696E-002	-4.386932E-003	-1.536994E-001	-1.548031E-001
410	3	-4.355748E-002	-4.286477E-003	-1.537018E-001	-1.512554E-001
410	4	-4.298608E-002	-4.286476E-003	-1.516861E-001	-1.512555E-001
410	5	-4.327141E-002	-4.387189E-003	-1.526926E-001	-1.548076E-001
410	6	-4.355671E-002	-4.336720E-003	-1.537015E-001	-1.530299E-001
410	7	-4.327141E-002	-4.286487E-003	-1.526926E-001	-1.512555E-001
410	8	-4.298688E-002	-4.336790E-003	-1.516829E-001	-1.530327E-001
410	9	-4.327141E-002	-4.336715E-003	-1.526926E-001	-1.530310E-001
411	1	-4.223287E-002	-4.980302E-003	-1.490268E-001	-1.757395E-001
411	2	-4.281722E-002	-4.980209E-003	-1.510985E-001	-1.757361E-001
411	3	-4.281725E-002	-4.877465E-003	-1.510914E-001	-1.721117E-001
411	4	-4.223255E-002	-4.877563E-003	-1.490261E-001	-1.721145E-001
411	5	-4.252479E-002	-4.980308E-003	-1.500581E-001	-1.757408E-001
411	6	-4.281804E-002	-4.928893E-003	-1.510911E-001	-1.739238E-001
411	7	-4.252479E-002	-4.877653E-003	-1.500581E-001	-1.721157E-001
411	8	-4.223271E-002	-4.928899E-003	-1.490255E-001	-1.739284E-001
411	9	-4.252479E-002	-4.928935E-003	-1.500581E-001	-1.739274E-001
412	1	-4.149537E-002	-5.493672E-003	-1.464272E-001	-1.938553E-001
412	2	-4.206440E-002	-5.493542E-003	-1.484333E-001	-1.938514E-001
412	3	-4.206451E-002	-5.393411E-003	-1.484347E-001	-1.903175E-001
412	4	-4.149567E-002	-5.393586E-003	-1.464265E-001	-1.903208E-001
412	5	-4.178022E-002	-5.493544E-003	-1.474288E-001	-1.938504E-001
412	6	-4.206518E-002	-5.443472E-003	-1.484347E-001	-1.920820E-001
412	7	-4.178022E-002	-5.393518E-003	-1.474288E-001	-1.903172E-001
412	8	-4.149599E-002	-5.443515E-003	-1.464240E-001	-1.920878E-001
412	9	-4.178022E-002	-5.443493E-003	-1.474288E-001	-1.920855E-001
413	1	-4.080335E-002	-5.927757E-003	-1.439853E-001	-2.091747E-001
413	2	-4.133606E-002	-5.927707E-003	-1.458618E-001	-2.091728E-001
413	3	-4.133561E-002	-5.834258E-003	-1.458600E-001	-2.058709E-001
413	4	-4.080442E-002	-5.834289E-003	-1.439839E-001	-2.058729E-001

413	5	-4.106899E-002	-5.927695E-003	-1.449219E-001	-2.091690E-001
413	6	-4.133553E-002	-5.880878E-003	-1.458620E-001	-2.075219E-001
413	7	-4.106888E-002	-5.834304E-003	-1.449229E-001	-2.058719E-001
413	8	-4.080332E-002	-5.881084E-003	-1.439827E-001	-2.075237E-001
413	9	-4.106935E-002	-5.881081E-003	-1.449227E-001	-2.075234E-001
414	1	-4.019139E-002	-6.285836E-003	-1.418233E-001	-2.218889E-001
414	2	-4.065847E-002	-6.285674E-003	-1.434707E-001	-2.218838E-001
414	3	-4.065815E-002	-6.203454E-003	-1.434710E-001	-2.189021E-001
414	4	-4.019053E-002	-6.203519E-003	-1.418205E-001	-2.189039E-001
414	5	-4.042436E-002	-6.285831E-003	-1.426465E-001	-2.218868E-001
414	6	-4.065816E-002	-6.244541E-003	-1.434714E-001	-2.203515E-001
414	7	-4.042469E-002	-6.203527E-003	-1.426463E-001	-2.189024E-001
414	8	-4.019087E-002	-6.244585E-003	-1.418219E-001	-2.203554E-001
414	9	-4.042429E-002	-6.244643E-003	-1.426466E-001	-2.203535E-001
415	1	-3.965952E-002	-6.574478E-003	-1.399496E-001	-2.319960E-001
415	2	-4.086404E-002	-6.574520E-003	-1.413743E-001	-2.319932E-001
415	3	-4.086372E-002	-6.503521E-003	-1.413746E-001	-2.294905E-001
415	4	-3.966008E-002	-6.503633E-003	-1.399493E-001	-2.294946E-001
415	5	-3.986212E-002	-6.574613E-003	-1.406628E-001	-2.319958E-001
415	6	-4.086412E-002	-6.539039E-003	-1.413745E-001	-2.307448E-001
415	7	-3.986207E-002	-6.503558E-003	-1.406613E-001	-2.294907E-001
415	8	-3.965995E-002	-6.539103E-003	-1.399469E-001	-2.307474E-001
415	9	-3.986221E-002	-6.539101E-003	-1.406610E-001	-2.307468E-001
416	1	-3.935424E-002	-6.783463E-003	-1.388696E-001	-2.393699E-001
416	2	-3.957014E-002	-6.783349E-003	-1.396301E-001	-2.393664E-001
416	3	-3.956944E-002	-6.745444E-003	-1.396307E-001	-2.380250E-001
416	4	-3.935436E-002	-6.745514E-003	-1.388694E-001	-2.380289E-001
416	5	-3.946184E-002	-6.783473E-003	-1.392494E-001	-2.393684E-001
416	6	-3.956952E-002	-6.764454E-003	-1.396304E-001	-2.386969E-001
416	7	-3.946184E-002	-6.745539E-003	-1.392494E-001	-2.380302E-001
416	8	-3.935406E-002	-6.764513E-003	-1.388683E-001	-2.386985E-001
416	9	-3.946184E-002	-6.764474E-003	-1.392494E-001	-2.386983E-001
417	1	-3.885636E-002	-6.980789E-003	-1.371118E-001	-2.463299E-001
417	2	-3.926382E-002	-6.980734E-003	-1.385484E-001	-2.463388E-001
417	3	-3.926310E-002	-6.909288E-003	-1.385490E-001	-2.438086E-001
417	4	-3.885581E-002	-6.909270E-003	-1.371103E-001	-2.438084E-001
417	5	-3.905949E-002	-6.980726E-003	-1.378295E-001	-2.463303E-001
417	6	-3.926318E-002	-6.944959E-003	-1.385480E-001	-2.450686E-001
417	7	-3.905944E-002	-6.909201E-003	-1.378297E-001	-2.438066E-001
417	8	-3.885552E-002	-6.945048E-003	-1.371111E-001	-2.450701E-001
417	9	-3.905934E-002	-6.945004E-003	-1.378293E-001	-2.450690E-001
418	1	-4.095187E-002	-6.814968E-003	-1.445059E-001	-2.404800E-001
418	2	-3.907009E-002	-6.815209E-003	-1.378674E-001	-2.404893E-001
418	3	-3.907065E-002	-7.146169E-003	-1.378674E-001	-2.521692E-001
418	4	-4.095130E-002	-7.145806E-003	-1.445063E-001	-2.521548E-001
418	5	-4.001162E-002	-6.815031E-003	-1.411861E-001	-2.404819E-001
418	6	-3.907089E-002	-6.980680E-003	-1.378675E-001	-2.463282E-001
418	7	-4.001077E-002	-7.146059E-003	-1.411861E-001	-2.521652E-001
418	8	-4.095054E-002	-6.980435E-003	-1.445051E-001	-2.463174E-001
418	9	-4.001084E-002	-6.980557E-003	-1.411883E-001	-2.463247E-001
419	1	-3.894140E-004	-8.720471E-005	-1.091835E-001	-3.877209E-001
419	2	-3.991916E-002	-8.719104E-003	-1.408634E-001	-3.876720E-001
419	3	-3.991885E-002	-7.139866E-003	-1.408622E-001	-2.519445E-001
419	4	-3.894095E-004	-7.141263E-005	-1.091837E-001	-2.519910E-001
419	5	-3.543000E-004	-8.719791E-005	-1.250222E-001	-3.876963E-001
419	6	-3.991847E-002	-7.929552E-003	-1.408612E-001	-2.798085E-001
419	7	-3.543000E-002	-7.140611E-003	-1.250222E-001	-2.519681E-001
419	8	-3.894192E-004	-7.930830E-005	-1.091810E-001	-2.798584E-001
419	9	-3.543000E-002	-7.930219E-003	-1.250222E-001	-2.798334E-001
420	1	-4.692825E-004	-2.510206E-005	-1.655966E-001	-8.857689E-002

420	2	-3.183118E-004	-2.512710E-005	-1.123231E-001	-8.866510E-002
420	3	-3.183117E-004	-5.161939E-005	-1.123230E-001	-1.821538E-001
420	4	-4.692766E-004	-5.159924E-005	-1.655942E-001	-1.828821E-001
420	5	-3.937905E-004	-2.511396E-005	-1.389571E-001	-8.862027E-002
420	6	-3.183895E-004	-3.837340E-005	-1.123229E-001	-1.354091E-001
420	7	-3.937911E-004	-5.161043E-005	-1.389578E-001	-1.821207E-001
420	8	-4.692840E-004	-3.835079E-005	-1.655961E-001	-1.353285E-001
420	9	-3.937932E-004	-3.836219E-005	-1.389557E-001	-1.353698E-001
421	1	-5.093081E-004	-4.778729E-005	-1.797169E-001	-1.686242E-001
421	2	-4.935501E-004	-4.778925E-005	-1.741585E-001	-1.686374E-001
421	3	-4.935483E-004	-5.055466E-005	-1.741584E-001	-1.783921E-001
421	4	-5.092982E-004	-5.055215E-005	-1.797197E-001	-1.783841E-001
421	5	-5.014203E-004	-4.778888E-005	-1.769371E-001	-1.686298E-001
421	6	-4.935486E-004	-4.917286E-005	-1.741576E-001	-1.735139E-001
421	7	-5.014203E-004	-5.055373E-005	-1.769371E-001	-1.783881E-001
421	8	-5.092976E-004	-4.916945E-005	-1.797167E-001	-1.735048E-001
421	9	-5.014203E-004	-4.917055E-005	-1.769371E-001	-1.735096E-001
422	1	-5.442994E-004	-3.546577E-005	-1.920677E-001	-1.251500E-001
422	2	-5.157453E-004	-3.547036E-005	-1.819114E-001	-1.251644E-001
422	3	-5.157450E-004	-4.049040E-005	-1.819937E-001	-1.428799E-001
422	4	-5.442957E-004	-4.048551E-005	-1.920671E-001	-1.428644E-001
422	5	-5.300245E-004	-3.546904E-005	-1.870290E-001	-1.251605E-001
422	6	-5.157479E-004	-3.798895E-005	-1.819923E-001	-1.340237E-001
422	7	-5.300245E-004	-4.048782E-005	-1.870290E-001	-1.428702E-001
422	8	-5.442928E-004	-3.797626E-005	-1.920671E-001	-1.340084E-001
422	9	-5.300245E-004	-3.797884E-005	-1.870290E-001	-1.340148E-001
423	1	-6.012681E-005	-2.912152E-005	-2.121613E-001	-1.027589E+000
423	2	-5.548556E-005	-2.993398E-005	-1.957848E-001	-1.056240E+000
423	3	-5.548532E-005	-3.246977E-005	-1.957845E-001	-1.145706E+000
423	4	-6.012655E-005	-3.178631E-005	-2.121605E-001	-1.121606E+000
423	5	-5.774945E-005	-2.953775E-005	-2.037717E-001	-1.042263E+000
423	6	-5.548549E-005	-3.120182E-005	-1.957855E-001	-1.100976E+000
423	7	-5.774896E-005	-3.213646E-005	-2.037704E-001	-1.133956E+000
423	8	-6.012668E-005	-3.045401E-005	-2.121638E-001	-1.074598E+000
423	9	-5.774869E-005	-3.083723E-005	-2.037709E-001	-1.088116E+000
424	1	-7.070369E-005	-2.834492E-005	-2.494820E-001	-1.000186E+000
424	2	-6.824052E-005	-2.886371E-005	-2.407944E-001	-1.018479E+000
424	3	-6.824049E-005	-2.994533E-005	-2.407938E-001	-1.056637E+000
424	4	-7.070386E-005	-2.949451E-005	-2.494880E-001	-1.040738E+000
424	5	-6.943448E-005	-2.861283E-005	-2.450049E-001	-1.009630E+000
424	6	-6.824105E-005	-2.940418E-005	-2.407939E-001	-1.037557E+000
424	7	-6.943448E-005	-2.972663E-005	-2.450049E-001	-1.048919E+000
424	8	-7.070355E-005	-2.892819E-005	-2.494824E-001	-1.020466E+000
424	9	-6.943448E-005	-2.916948E-005	-2.450049E-001	-1.029271E+000
425	1	-7.126427E-005	-2.838984E-005	-2.514585E-001	-1.001763E+000
425	2	-7.118526E-005	-2.840874E-005	-2.511834E-001	-1.002416E+000
425	3	-7.118552E-005	-2.843664E-005	-2.511850E-001	-1.003422E+000
425	4	-7.126386E-005	-2.842809E-005	-2.514592E-001	-1.002826E+000
425	5	-7.122369E-005	-2.839892E-005	-2.513182E-001	-1.002095E+000
425	6	-7.118519E-005	-2.842263E-005	-2.511831E-001	-1.002924E+000
425	7	-7.122369E-005	-2.842856E-005	-2.513182E-001	-1.003127E+000
425	8	-7.126425E-005	-2.840489E-005	-2.514593E-001	-1.002293E+000
425	9	-7.122369E-005	-2.841393E-005	-2.513182E-001	-1.002612E+000
426	1	-6.597035E-005	-2.940897E-005	-2.327784E-001	-1.037713E+000
426	2	-6.145929E-005	-3.019194E-005	-2.168634E-001	-1.065345E+000
426	3	-6.145906E-005	-3.247779E-005	-2.168648E-001	-1.146007E+000
426	4	-6.596858E-005	-3.181054E-005	-2.327758E-001	-1.122747E+000
426	5	-6.365484E-005	-2.981046E-005	-2.246113E-001	-1.051898E+000
426	6	-6.145890E-005	-3.133477E-005	-2.168641E-001	-1.105582E+000
426	7	-6.365484E-005	-3.215724E-005	-2.246113E-001	-1.134696E+000

426	8	-6.596908E-005	-3.061384E-005	-2.327747E-001	-1.088238E+000
426	9	-6.365484E-005	-3.098375E-005	-2.246113E-001	-1.093289E+000
427	1	-7.264719E-005	-2.840750E-005	-2.563374E-001	-1.002373E+000
427	2	-7.127241E-005	-2.869707E-005	-2.514909E-001	-1.012584E+000
427	3	-7.127246E-005	-2.925012E-005	-2.514905E-001	-1.032122E+000
427	4	-7.264483E-005	-2.899886E-005	-2.563343E-001	-1.023246E+000
427	5	-7.193648E-005	-2.855649E-005	-2.538371E-001	-1.007644E+000
427	6	-7.127283E-005	-2.897332E-005	-2.514899E-001	-1.022350E+000
427	7	-7.193705E-005	-2.912847E-005	-2.538344E-001	-1.027828E+000
427	8	-7.264566E-005	-2.870333E-005	-2.563378E-001	-1.012822E+000
427	9	-7.193664E-005	-2.884287E-005	-2.538345E-001	-1.017742E+000
428	1	-7.038106E-005	-2.809170E-005	-2.480613E-001	-9.912300E-001
428	2	-7.116081E-005	-2.787927E-005	-2.510965E-001	-9.837389E-001
428	3	-7.116127E-005	-2.759387E-005	-2.510987E-001	-9.736628E-001
428	4	-7.038038E-005	-2.778193E-005	-2.480596E-001	-9.803870E-001
428	5	-7.074826E-005	-2.798105E-005	-2.496416E-001	-9.873366E-001
428	6	-7.116050E-005	-2.773679E-005	-2.510986E-001	-9.787083E-001
428	7	-7.074852E-005	-2.768445E-005	-2.496489E-001	-9.768560E-001
428	8	-7.038188E-005	-2.793654E-005	-2.480657E-001	-9.857630E-001
428	9	-7.074822E-005	-2.783263E-005	-2.496424E-001	-9.820967E-001
429	1	-7.099249E-005	-2.944467E-005	-2.585064E-001	-1.038996E+000
429	2	-6.718559E-005	-3.011062E-005	-2.370696E-001	-1.062484E+000
429	3	-6.718566E-005	-3.191823E-005	-2.370726E-001	-1.126264E+000
429	4	-7.099302E-005	-3.135811E-005	-2.585053E-001	-1.106494E+000
429	5	-6.903552E-005	-2.978748E-005	-2.435964E-001	-1.051081E+000
429	6	-6.718516E-005	-3.101474E-005	-2.370693E-001	-1.094376E+000
429	7	-6.903499E-005	-3.164677E-005	-2.435957E-001	-1.116683E+000
429	8	-7.099356E-005	-3.040183E-005	-2.585050E-001	-1.072746E+000
429	9	-6.903565E-005	-3.071683E-005	-2.435963E-001	-1.083873E+000
430	1	-7.307344E-005	-2.804934E-005	-2.578423E-001	-9.897453E-001
430	2	-7.288653E-005	-2.888022E-005	-2.571854E-001	-9.911124E-001
430	3	-7.288658E-005	-2.815680E-005	-2.571825E-001	-9.935284E-001
430	4	-7.307393E-005	-2.812237E-005	-2.578462E-001	-9.923276E-001
430	5	-7.297644E-005	-2.886925E-005	-2.575056E-001	-9.984528E-001
430	6	-7.288609E-005	-2.812247E-005	-2.571840E-001	-9.923205E-001
430	7	-7.297644E-005	-2.814018E-005	-2.575056E-001	-9.929471E-001
430	8	-7.307415E-005	-2.888582E-005	-2.578461E-001	-9.910403E-001
430	9	-7.297644E-005	-2.810494E-005	-2.575056E-001	-9.917040E-001
431	1	-7.456409E-005	-2.914863E-005	-2.631072E-001	-1.028523E+000
431	2	-7.194187E-005	-2.960752E-005	-2.538510E-001	-1.044720E+000
431	3	-7.194207E-005	-3.075916E-005	-2.538506E-001	-1.085363E+000
431	4	-7.456439E-005	-3.037248E-005	-2.631075E-001	-1.071724E+000
431	5	-7.321389E-005	-2.938485E-005	-2.583356E-001	-1.036867E-001
431	6	-7.194135E-005	-3.018323E-005	-2.538502E-001	-1.065040E+000
431	7	-7.321389E-005	-3.057193E-005	-2.583356E-001	-1.078755E+000
431	8	-7.456401E-005	-2.976851E-005	-2.631078E-001	-1.050120E+000
431	9	-7.321389E-005	-2.997842E-005	-2.583356E-001	-1.057010E+000
432	1	-4.411954E-002	-4.268459E-004	-1.556836E-001	-1.506431E-002
432	2	-4.417866E-002	-4.269124E-004	-1.558947E-001	-1.506510E-002
432	3	-4.417874E-002	-4.164258E-004	-1.558949E-001	-1.469665E-002
432	4	-4.411905E-002	-4.164756E-004	-1.556823E-001	-1.469632E-002
432	5	-4.414850E-002	-4.268865E-004	-1.557872E-001	-1.506613E-002
432	6	-4.417866E-002	-4.216519E-004	-1.558947E-001	-1.488044E-002
432	7	-4.414858E-002	-4.165497E-004	-1.557872E-001	-1.469584E-002
432	8	-4.411953E-002	-4.217298E-004	-1.556836E-001	-1.488081E-002
432	9	-4.414858E-002	-4.217005E-004	-1.557872E-001	-1.488093E-002
433	1	-4.398858E-002	-1.272055E-003	-1.549407E-001	-4.488666E-002
433	2	-4.408513E-002	-1.271926E-003	-1.555625E-001	-4.488399E-002
433	3	-4.408474E-002	-1.240893E-003	-1.555635E-001	-4.378672E-002
433	4	-4.398793E-002	-1.240916E-003	-1.549406E-001	-4.379015E-002

433	5	-4.399684E-002	-1.272020E-003	-1.552515E-001	-4.488436E-002
433	6	-4.408471E-002	-1.256497E-003	-1.555613E-001	-4.433661E-002
433	7	-4.399686E-002	-1.240934E-003	-1.552519E-001	-4.378970E-002
433	8	-4.398857E-002	-1.256406E-003	-1.549413E-001	-4.433861E-002
433	9	-4.399685E-002	-1.256462E-003	-1.552512E-001	-4.433761E-002
434	1	-4.355763E-002	-2.092822E-003	-1.537029E-001	-7.384853E-002
434	2	-4.384200E-002	-2.092837E-003	-1.547062E-001	-7.384767E-002
434	3	-4.384185E-002	-2.043023E-003	-1.547062E-001	-7.209268E-002
434	4	-4.355810E-002	-2.043048E-003	-1.537035E-001	-7.209539E-002
434	5	-4.370023E-002	-2.092835E-003	-1.542047E-001	-7.385135E-002
434	6	-4.384189E-002	-2.067928E-003	-1.547036E-001	-7.297244E-002
434	7	-4.370018E-002	-2.043075E-003	-1.542051E-001	-7.209213E-002
434	8	-4.355842E-002	-2.067942E-003	-1.537047E-001	-7.297161E-002
434	9	-4.369977E-002	-2.067945E-003	-1.542044E-001	-7.297043E-002
435	1	-4.309066E-002	-2.073312E-003	-1.520557E-001	-1.013904E-001
435	2	-4.346326E-002	-2.073368E-003	-1.533682E-001	-1.013885E-001
435	3	-4.346387E-002	-2.007740E-003	-1.533688E-001	-9.907629E-002
435	4	-4.309097E-002	-2.007809E-003	-1.520537E-001	-9.907638E-002
435	5	-4.327730E-002	-2.073215E-003	-1.527118E-001	-1.013884E-001
435	6	-4.346281E-002	-2.040498E-003	-1.533684E-001	-1.002327E-001
435	7	-4.327668E-002	-2.007844E-003	-1.527103E-001	-9.908142E-002
435	8	-4.309113E-002	-2.040547E-003	-1.520563E-001	-1.002353E-001
435	9	-4.327707E-002	-2.040562E-003	-1.527122E-001	-1.002340E-001
436	1	-4.253625E-002	-3.599036E-003	-1.500980E-001	-1.269963E-001
436	2	-4.297357E-002	-3.598943E-003	-1.516409E-001	-1.269948E-001
436	3	-4.297298E-002	-3.522220E-003	-1.516386E-001	-1.242880E-001
436	4	-4.253657E-002	-3.522203E-003	-1.500967E-001	-1.242904E-001
436	5	-4.275467E-002	-3.598952E-003	-1.508695E-001	-1.269955E-001
436	6	-4.297282E-002	-3.560553E-003	-1.516381E-001	-1.256432E-001
436	7	-4.275491E-002	-3.522182E-003	-1.508679E-001	-1.242905E-001
436	8	-4.253625E-002	-3.560648E-003	-1.500993E-001	-1.256441E-001
436	9	-4.275491E-002	-3.560600E-003	-1.508699E-001	-1.256414E-001
437	1	-4.193208E-002	-4.259888E-003	-1.479649E-001	-1.503198E-001
437	2	-4.240417E-002	-4.259853E-003	-1.496310E-001	-1.503168E-001
437	3	-4.240400E-002	-4.176744E-003	-1.496314E-001	-1.473853E-001
437	4	-4.193131E-002	-4.176711E-003	-1.479643E-001	-1.473845E-001
437	5	-4.216772E-002	-4.259864E-003	-1.487964E-001	-1.503200E-001
437	6	-4.240391E-002	-4.218313E-003	-1.496311E-001	-1.488589E-001
437	7	-4.216772E-002	-4.176718E-003	-1.487964E-001	-1.473849E-001
437	8	-4.193225E-002	-4.218318E-003	-1.479643E-001	-1.488525E-001
437	9	-4.216772E-002	-4.218286E-003	-1.487964E-001	-1.488517E-001
438	1	-4.130979E-002	-4.850339E-003	-1.457727E-001	-1.711566E-001
438	2	-4.179226E-002	-4.850352E-003	-1.474752E-001	-1.711552E-001
438	3	-4.179239E-002	-4.765631E-003	-1.474751E-001	-1.681660E-001
438	4	-4.131037E-002	-4.765753E-003	-1.457738E-001	-1.681677E-001
438	5	-4.155158E-002	-4.850247E-003	-1.466231E-001	-1.711517E-001
438	6	-4.179317E-002	-4.807987E-003	-1.474726E-001	-1.696606E-001
438	7	-4.155158E-002	-4.765633E-003	-1.466231E-001	-1.681649E-001
438	8	-4.130960E-002	-4.808026E-003	-1.457713E-001	-1.696611E-001
438	9	-4.155158E-002	-4.808027E-003	-1.466231E-001	-1.696622E-001
439	1	-4.070434E-002	-5.367056E-003	-1.436344E-001	-1.893876E-001
439	2	-4.117211E-002	-5.367028E-003	-1.452846E-001	-1.893880E-001
439	3	-4.117217E-002	-5.284606E-003	-1.452842E-001	-1.864771E-001
439	4	-4.070463E-002	-5.284718E-003	-1.436355E-001	-1.864828E-001
439	5	-4.093830E-002	-5.367018E-003	-1.444591E-001	-1.893844E-001
439	6	-4.117189E-002	-5.325851E-003	-1.452845E-001	-1.879318E-001
439	7	-4.093830E-002	-5.284592E-003	-1.444591E-001	-1.864767E-001
439	8	-4.070401E-002	-5.325902E-003	-1.436330E-001	-1.879338E-001
439	9	-4.093830E-002	-5.325876E-003	-1.444591E-001	-1.879337E-001
440	1	-4.014085E-002	-5.809870E-003	-1.416439E-001	-2.050136E-001

440	2	-4.057314E-002	-5.809748E-003	-1.431712E-001	-2.050058E-001
440	3	-4.057334E-002	-5.733748E-003	-1.431714E-001	-2.023270E-001
440	4	-4.014142E-002	-5.733871E-003	-1.416455E-001	-2.023291E-001
440	5	-4.035711E-002	-5.809645E-003	-1.424096E-001	-2.050080E-001
440	6	-4.057321E-002	-5.771721E-003	-1.431714E-001	-2.036672E-001
440	7	-4.035711E-002	-5.733790E-003	-1.424079E-001	-2.023312E-001
440	8	-4.014081E-002	-5.771814E-003	-1.416463E-001	-2.036703E-001
440	9	-4.035703E-002	-5.771818E-003	-1.424095E-001	-2.036694E-001
441	1	-3.964256E-002	-6.181883E-003	-1.398890E-001	-2.181400E-001
441	2	-4.002255E-002	-6.181829E-003	-1.412291E-001	-2.181396E-001
441	3	-4.002262E-002	-6.114911E-003	-1.412262E-001	-2.157773E-001
441	4	-3.964265E-002	-6.114936E-003	-1.398862E-001	-2.157809E-001
441	5	-3.983257E-002	-6.181874E-003	-1.405564E-001	-2.181392E-001
441	6	-4.002319E-002	-6.148416E-003	-1.412285E-001	-2.169579E-001
441	7	-3.983252E-002	-6.115805E-003	-1.405580E-001	-2.157785E-001
441	8	-3.964317E-002	-6.148470E-003	-1.398857E-001	-2.169604E-001
441	9	-3.983262E-002	-6.148404E-003	-1.405573E-001	-2.169598E-001
442	1	-3.924370E-002	-6.485796E-003	-1.384784E-001	-2.288617E-001
442	2	-3.954357E-002	-6.485663E-003	-1.395382E-001	-2.288631E-001
442	3	-3.954334E-002	-6.433819E-003	-1.395386E-001	-2.270015E-001
442	4	-3.924424E-002	-6.433122E-003	-1.384799E-001	-2.270054E-001
442	5	-3.939349E-002	-6.485642E-003	-1.390085E-001	-2.288625E-001
442	6	-3.954317E-002	-6.459378E-003	-1.395382E-001	-2.279323E-001
442	7	-3.939358E-002	-6.433011E-003	-1.390091E-001	-2.270015E-001
442	8	-3.924364E-002	-6.459437E-003	-1.384808E-001	-2.279339E-001
442	9	-3.939346E-002	-6.459407E-003	-1.390087E-001	-2.279347E-001
443	1	-3.893980E-002	-6.734173E-003	-1.374044E-001	-2.376299E-001
443	2	-3.916661E-002	-6.734137E-003	-1.382079E-001	-2.376277E-001
443	3	-3.916708E-002	-6.694116E-003	-1.382085E-001	-2.362144E-001
443	4	-3.893848E-002	-6.694086E-003	-1.374043E-001	-2.362150E-001
443	5	-3.905279E-002	-6.734223E-003	-1.378068E-001	-2.376323E-001
443	6	-3.916652E-002	-6.714181E-003	-1.382082E-001	-2.369221E-001
443	7	-3.905279E-002	-6.693982E-003	-1.378068E-001	-2.362109E-001
443	8	-3.893914E-002	-6.714104E-003	-1.374037E-001	-2.369232E-001
443	9	-3.905279E-002	-6.714162E-003	-1.378068E-001	-2.369217E-001
444	1	-3.898393E-002	-6.900569E-003	-1.375653E-001	-2.435817E-001
444	2	-3.891565E-002	-6.900605E-003	-1.373234E-001	-2.435838E-001
444	3	-3.891540E-002	-6.912641E-003	-1.373207E-001	-2.439283E-001
444	4	-3.898546E-002	-6.912669E-003	-1.375643E-001	-2.439271E-001
444	5	-3.895071E-002	-6.906623E-003	-1.374442E-001	-2.435825E-001
444	6	-3.891557E-002	-6.906630E-003	-1.373231E-001	-2.437156E-001
444	7	-3.894980E-002	-6.912708E-003	-1.374443E-001	-2.439271E-001
444	8	-3.898422E-002	-6.906675E-003	-1.375632E-001	-2.437155E-001
444	9	-3.895021E-002	-6.906655E-003	-1.374439E-001	-2.437159E-001
445	1	-3.878054E-002	-7.189552E-003	-1.368442E-001	-2.536977E-001
445	2	-3.896676E-002	-7.189584E-003	-1.375044E-001	-2.536992E-001
445	3	-3.896714E-002	-7.156686E-003	-1.375046E-001	-2.525369E-001
445	4	-3.878064E-002	-7.156693E-003	-1.368459E-001	-2.525380E-001
445	5	-3.887342E-002	-7.189528E-003	-1.371748E-001	-2.536975E-001
445	6	-3.896803E-002	-7.173125E-003	-1.375045E-001	-2.531173E-001
445	7	-3.887414E-002	-7.156630E-003	-1.371749E-001	-2.525374E-001
445	8	-3.878016E-002	-7.173040E-003	-1.368434E-001	-2.531180E-001
445	9	-3.887419E-002	-7.173107E-003	-1.371751E-001	-2.531177E-001
446	1	-3.818635E-004	-6.897710E-005	-1.347482E-001	-2.433976E-001
446	2	-3.868076E-002	-6.897530E-003	-1.364938E-001	-2.433934E-001
446	3	-3.868099E-002	-6.810555E-003	-1.364954E-001	-2.403266E-001
446	4	-3.818619E-002	-6.810741E-003	-1.347484E-001	-2.403279E-001
446	5	-3.843321E-002	-6.897609E-003	-1.356198E-001	-2.433951E-001
446	6	-3.868175E-002	-6.854067E-003	-1.364935E-001	-2.418593E-001
446	7	-3.843321E-002	-6.810635E-003	-1.356198E-001	-2.403273E-001

446	8	-4.036872E-002	-7.245989E-003	-1.347477E-001	-2.418639E-001
446	9	-3.843321E-002	-6.854172E-003	-1.356198E-001	-2.418632E-001
447	1	-4.521621E-004	-5.704112E-005	-1.595534E-001	-2.012832E-001
447	2	-3.901653E-004	-5.704908E-005	-1.376771E-001	-2.013103E-001
447	3	-3.901647E-004	-6.793044E-005	-1.376770E-001	-2.397068E-001
447	4	-4.521711E-004	-6.792223E-005	-1.595547E-001	-2.396750E-001
447	5	-4.211594E-004	-5.704500E-005	-1.486168E-001	-2.012944E-001
447	6	-3.901623E-004	-6.248969E-005	-1.376772E-001	-2.205079E-001
447	7	-4.211669E-004	-6.792746E-005	-1.486155E-001	-2.396922E-001
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491	8	-9.146501E-005	-2.975689E-005	-3.227454E-001	-1.050002E+000
491	9	-9.183587E-005	-2.972391E-005	-3.240482E-001	-1.048834E+000
492	1	-5.609784E-005	-2.119242E-005	-1.979529E-001	-7.477875E-001
492	2	-6.031574E-005	-2.030247E-005	-2.128211E-001	-7.163058E-001
492	3	-6.031466E-005	-1.958987E-005	-2.128232E-001	-6.883993E-001
492	4	-5.609918E-005	-2.028122E-005	-1.979535E-001	-7.156423E-001
492	5	-5.835267E-005	-2.071618E-005	-2.050960E-001	-7.309887E-001
492	6	-6.031252E-005	-1.990599E-005	-2.128152E-001	-7.023977E-001
492	7	-5.835267E-005	-1.986837E-005	-2.050960E-001	-7.010770E-001
492	8	-5.609851E-005	-2.073694E-005	-1.979464E-001	-7.316992E-001
492	9	-5.835267E-005	-2.029260E-005	-2.050960E-001	-7.160425E-001
493	1	-7.440565E-005	-2.358821E-005	-2.625431E-001	-8.323355E-001
493	2	-7.717250E-005	-2.320305E-005	-2.723104E-001	-8.187394E-001
493	3	-7.717279E-005	-2.238582E-005	-2.723118E-001	-7.898974E-001
493	4	-7.440420E-005	-2.269332E-005	-2.625418E-001	-8.007489E-001

493	5	-7.584978E-005	-2.338705E-005	-2.676467E-001	-8.252245E-001
493	6	-7.717289E-005	-2.279400E-005	-2.723078E-001	-8.043096E-001
493	7	-7.585120E-005	-2.253267E-005	-2.676456E-001	-7.950831E-001
493	8	-7.440238E-005	-2.314078E-005	-2.625398E-001	-8.165476E-001
493	9	-7.585074E-005	-2.295969E-005	-2.676448E-001	-8.101525E-001
494	1	-4.768436E-005	-2.036483E-005	-1.682569E-001	-7.185751E-001
494	2	-5.309853E-005	-1.982904E-005	-1.873383E-001	-6.714525E-001
494	3	-5.309129E-005	-1.828553E-005	-1.873385E-001	-6.424016E-001
494	4	-4.768618E-005	-1.938755E-005	-1.682591E-001	-6.840973E-001
494	5	-5.061982E-005	-1.963948E-005	-1.786143E-001	-6.929992E-001
494	6	-5.309338E-005	-1.861722E-005	-1.873410E-001	-6.569261E-001
494	7	-5.061673E-005	-1.874657E-005	-1.786156E-001	-6.614784E-001
494	8	-4.768473E-005	-1.987626E-005	-1.682588E-001	-7.013324E-001
494	9	-5.061981E-005	-1.919300E-005	-1.786084E-001	-6.772236E-001
495	1	-6.347875E-005	-2.169234E-005	-2.239970E-001	-7.654027E-001
495	2	-6.696167E-005	-2.108474E-005	-2.362759E-001	-7.439891E-001
495	3	-6.696202E-005	-2.030448E-005	-2.362749E-001	-7.164520E-001
495	4	-6.347914E-005	-2.081675E-005	-2.239960E-001	-7.345437E-001
495	5	-6.531801E-005	-2.137092E-005	-2.304826E-001	-7.540851E-001
495	6	-6.695844E-005	-2.069466E-005	-2.362700E-001	-7.302282E-001
495	7	-6.531828E-005	-2.054620E-005	-2.304827E-001	-7.249892E-001
495	8	-6.348174E-005	-2.125455E-005	-2.239973E-001	-7.499793E-001
495	9	-6.531871E-005	-2.095874E-005	-2.304826E-001	-7.395422E-001
496	1	-8.953795E-005	-2.747780E-005	-3.159420E-001	-9.695720E-001
496	2	-9.113945E-005	-2.731187E-005	-3.215946E-001	-9.637181E-001
496	3	-9.113936E-005	-2.666693E-005	-3.215955E-001	-9.409690E-001
496	4	-8.953873E-005	-2.670768E-005	-3.159445E-001	-9.452254E-001
496	5	-9.036614E-005	-2.739178E-005	-3.188666E-001	-9.665444E-001
496	6	-9.113981E-005	-2.698974E-005	-3.215931E-001	-9.523494E-001
496	7	-9.036674E-005	-2.672557E-005	-3.188672E-001	-9.430331E-001
496	8	-8.953776E-005	-2.713277E-005	-3.159443E-001	-9.574042E-001
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497	1	-7.044557E-005	-2.197780E-005	-2.485716E-001	-7.755071E-001
497	2	-7.355335E-005	-2.155044E-005	-2.595354E-001	-7.604275E-001
497	3	-7.355156E-005	-2.074854E-005	-2.595370E-001	-7.321197E-001
497	4	-7.044612E-005	-2.109097E-005	-2.485722E-001	-7.442166E-001
497	5	-7.207717E-005	-2.175354E-005	-2.543284E-001	-7.675893E-001
497	6	-7.355282E-005	-2.114920E-005	-2.595353E-001	-7.462635E-001
497	7	-7.207717E-005	-2.091095E-005	-2.543284E-001	-7.378660E-001
497	8	-7.044631E-005	-2.153415E-005	-2.485764E-001	-7.598643E-001
497	9	-7.207717E-005	-2.133223E-005	-2.543284E-001	-7.527220E-001
498	1	-8.553170E-005	-2.545042E-005	-3.018069E-001	-8.980313E-001
498	2	-8.884255E-005	-2.511117E-005	-3.134885E-001	-8.860651E-001
498	3	-8.884412E-005	-2.390369E-005	-3.134886E-001	-8.434640E-001
498	4	-8.553248E-005	-2.415337E-005	-3.018089E-001	-8.522711E-001
498	5	-8.724695E-005	-2.527496E-005	-3.078558E-001	-8.918388E-001
498	6	-8.884224E-005	-2.450730E-005	-3.134878E-001	-8.647666E-001
498	7	-8.724695E-005	-2.402452E-005	-3.078558E-001	-8.477229E-001
498	8	-8.553328E-005	-2.480178E-005	-3.018113E-001	-8.751506E-001
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499	1	-4.980427E-005	-1.881263E-005	-1.729152E-001	-6.638365E-001
499	2	-5.469425E-005	-1.761574E-005	-1.929946E-001	-6.215785E-001
499	3	-5.469350E-005	-1.674522E-005	-1.929942E-001	-5.908638E-001
499	4	-4.980295E-005	-1.778674E-005	-1.729182E-001	-6.276439E-001
499	5	-5.208237E-005	-1.816474E-005	-1.837718E-001	-6.409680E-001
499	6	-5.469271E-005	-1.718056E-005	-1.929848E-001	-6.062381E-001
499	7	-5.208228E-005	-1.722374E-005	-1.837692E-001	-6.077486E-001
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500	2	-6.238067E-005	-1.890560E-005	-2.201175E-001	-6.672357E-001
500	3	-6.238315E-005	-1.812506E-005	-2.201195E-001	-6.395494E-001
500	4	-5.823321E-005	-1.873940E-005	-2.054763E-001	-6.612229E-001
500	5	-6.044663E-005	-1.924858E-005	-2.132919E-001	-6.791958E-001
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500	8	-5.822925E-005	-1.918793E-005	-2.054617E-001	-6.770543E-001
500	9	-6.044663E-005	-1.882985E-005	-2.132919E-001	-6.644234E-001
501	1	-4.125201E-002	-4.029472E-004	-1.455651E-001	-1.421728E-002
501	2	-4.129331E-002	-4.029402E-004	-1.457103E-001	-1.421541E-002
501	3	-4.129291E-002	-3.956839E-004	-1.457106E-001	-1.396280E-002
501	4	-4.125170E-002	-3.956806E-004	-1.455658E-001	-1.396306E-002
501	5	-4.127249E-002	-4.029897E-004	-1.456380E-001	-1.421961E-002
501	6	-4.129331E-002	-3.993047E-004	-1.457104E-001	-1.408950E-002
501	7	-4.127249E-002	-3.957520E-004	-1.456380E-001	-1.396257E-002
501	8	-4.125170E-002	-3.992215E-004	-1.455638E-001	-1.408983E-002
501	9	-4.127249E-002	-3.992929E-004	-1.456380E-001	-1.409062E-002
502	1	-4.111158E-002	-1.200717E-003	-1.450698E-001	-4.237035E-002
502	2	-4.122880E-002	-1.200800E-003	-1.454849E-001	-4.237061E-002
502	3	-4.122895E-002	-1.180145E-003	-1.454840E-001	-4.164463E-002
502	4	-4.111145E-002	-1.180183E-003	-1.450699E-001	-4.164327E-002
502	5	-4.117012E-002	-1.200759E-003	-1.452769E-001	-4.237175E-002
502	6	-4.122845E-002	-1.190490E-003	-1.454837E-001	-4.200802E-002
502	7	-4.117010E-002	-1.180164E-003	-1.452772E-001	-4.164713E-002
502	8	-4.111176E-002	-1.190490E-003	-1.450724E-001	-4.200882E-002
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503	1	-4.088140E-002	-1.978547E-003	-1.442577E-001	-6.981453E-002
503	2	-4.106770E-002	-1.978508E-003	-1.449159E-001	-6.981320E-002
503	3	-4.106744E-002	-1.945738E-003	-1.449160E-001	-6.866373E-002
503	4	-4.088141E-002	-1.945826E-003	-1.442565E-001	-6.866158E-002
503	5	-4.097408E-002	-1.978682E-003	-1.445875E-001	-6.981697E-002
503	6	-4.106831E-002	-1.962125E-003	-1.449167E-001	-6.923810E-002
503	7	-4.097476E-002	-1.945812E-003	-1.445877E-001	-6.865947E-002
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503	9	-4.097430E-002	-1.962119E-003	-1.445862E-001	-6.923889E-002
504	1	-8.141791E-005	-2.366305E-005	-2.872922E-001	-8.349664E-001
504	2	-8.458726E-005	-2.333606E-005	-2.984748E-001	-8.234261E-001
504	3	-8.458745E-005	-2.228603E-005	-2.984724E-001	-7.863734E-001
504	4	-8.141963E-005	-2.252430E-005	-2.872941E-001	-7.947876E-001
504	5	-8.306719E-005	-2.349320E-005	-2.931098E-001	-8.289789E-001
504	6	-8.458908E-005	-2.281104E-005	-2.984755E-001	-8.049006E-001
504	7	-8.306882E-005	-2.240032E-005	-2.931103E-001	-7.904186E-001
504	8	-8.141924E-005	-2.309355E-005	-2.872913E-001	-8.148723E-001
504	9	-8.306788E-005	-2.294665E-005	-2.931122E-001	-8.096921E-001
505	1	-4.057606E-002	-2.723326E-003	-1.431812E-001	-9.609963E-002
505	2	-4.081910E-002	-2.723330E-003	-1.440381E-001	-9.609721E-002
505	3	-4.081869E-002	-2.680647E-003	-1.440372E-001	-9.459138E-002
505	4	-4.057594E-002	-2.680627E-003	-1.431813E-001	-9.458976E-002
505	5	-4.069753E-002	-2.723358E-003	-1.436101E-001	-9.609866E-002
505	6	-4.081912E-002	-2.701981E-003	-1.440385E-001	-9.534258E-002
505	7	-4.069745E-002	-2.680687E-003	-1.436101E-001	-9.459314E-002
505	8	-4.057656E-002	-2.701963E-003	-1.431819E-001	-9.534317E-002
505	9	-4.069765E-002	-2.701944E-003	-1.436083E-001	-9.534292E-002
506	1	-4.021910E-002	-3.423558E-003	-1.419213E-001	-1.208074E-001
506	2	-4.050034E-002	-3.423658E-003	-1.429118E-001	-1.208101E-001
506	3	-4.049951E-002	-3.374277E-003	-1.429114E-001	-1.190653E-001
506	4	-4.021962E-002	-3.374314E-003	-1.419221E-001	-1.190694E-001
506	5	-4.035927E-002	-3.423662E-003	-1.424174E-001	-1.208073E-001
506	6	-4.050042E-002	-3.398971E-003	-1.429142E-001	-1.199354E-001
506	7	-4.035987E-002	-3.374222E-003	-1.424173E-001	-1.190672E-001

506	8	-4.021896E-002	-3.398977E-003	-1.419207E-001	-1.199385E-001
506	9	-4.035945E-002	-3.398902E-003	-1.424165E-001	-1.199366E-001
507	1	-3.983743E-002	-4.070532E-003	-1.405752E-001	-1.436359E-001
507	2	-4.013501E-002	-4.070524E-003	-1.416249E-001	-1.436370E-001
507	3	-4.013500E-002	-4.018047E-003	-1.416239E-001	-1.417870E-001
507	4	-3.983689E-002	-4.018068E-003	-1.405724E-001	-1.417858E-001
507	5	-3.998584E-002	-4.070491E-003	-1.410987E-001	-1.436344E-001
507	6	-4.013539E-002	-4.044278E-003	-1.416250E-001	-1.427105E-001
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508	1	-3.944970E-002	-4.657866E-003	-1.392865E-001	-1.643612E-001
508	2	-3.975032E-002	-4.657760E-003	-1.402678E-001	-1.643587E-001
508	3	-3.975027E-002	-4.604976E-003	-1.402656E-001	-1.624976E-001
508	4	-3.944974E-002	-4.605059E-003	-1.392893E-001	-1.624967E-001
508	5	-3.960020E-002	-4.657780E-003	-1.397377E-001	-1.643619E-001
508	6	-3.975033E-002	-4.631350E-003	-1.402664E-001	-1.634290E-001
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509	1	-3.980239E-002	-5.181373E-003	-1.379122E-001	-1.820340E-001
509	2	-3.936569E-002	-5.181322E-003	-1.389092E-001	-1.820343E-001
509	3	-3.936551E-002	-5.131549E-003	-1.389089E-001	-1.810767E-001
509	4	-3.980246E-002	-5.131545E-003	-1.379094E-001	-1.810772E-001
509	5	-3.922415E-002	-5.181340E-003	-1.384097E-001	-1.828378E-001
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510	1	-3.875398E-002	-5.639104E-003	-1.367506E-001	-1.989862E-001
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510	3	-3.900468E-002	-5.595068E-003	-1.376366E-001	-1.974347E-001
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510	7	-3.887942E-002	-5.595165E-003	-1.371950E-001	-1.974333E-001
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511	1	-3.847574E-002	-6.033723E-003	-1.357689E-001	-2.129141E-001
511	2	-3.868652E-002	-6.033696E-003	-1.365142E-001	-2.129095E-001
511	3	-3.868676E-002	-5.996629E-003	-1.365144E-001	-2.116046E-001
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511	8	-3.847471E-002	-6.015158E-003	-1.357693E-001	-2.122602E-001
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512	1	-3.826299E-002	-6.369986E-003	-1.350199E-001	-2.247489E-001
512	2	-3.842159E-002	-6.368991E-003	-1.355804E-001	-2.247441E-001
512	3	-3.842186E-002	-6.340993E-003	-1.355806E-001	-2.237580E-001
512	4	-3.826301E-002	-6.341086E-003	-1.350174E-001	-2.237572E-001
512	5	-3.834224E-002	-6.369826E-003	-1.352991E-001	-2.247427E-001
512	6	-3.842177E-002	-6.355050E-003	-1.355806E-001	-2.242514E-001
512	7	-3.834234E-002	-6.341040E-003	-1.352990E-001	-2.237595E-001
512	8	-3.826243E-002	-6.355050E-003	-1.350151E-001	-2.242514E-001
512	9	-3.834241E-002	-6.355050E-003	-1.352975E-001	-2.242514E-001
513	1	-3.813354E-002	-6.655084E-003	-1.345646E-001	-2.348355E-001
513	2	-3.822656E-002	-6.655007E-003	-1.348882E-001	-2.348371E-001
513	3	-3.822658E-002	-6.638753E-003	-1.348886E-001	-2.342651E-001
513	4	-3.813411E-002	-6.638905E-003	-1.345644E-001	-2.342642E-001

513	5	-3.817981E-002	-6.655114E-003	-1.347260E-001	-2.348375E-001
513	6	-3.822555E-002	-6.646910E-003	-1.348884E-001	-2.345513E-001
513	7	-3.817981E-002	-6.638858E-003	-1.347260E-001	-2.342647E-001
513	8	-3.813383E-002	-6.647014E-003	-1.345633E-001	-2.345513E-001
513	9	-3.817981E-002	-6.646914E-003	-1.347260E-001	-2.345519E-001
514	1	-3.809953E-002	-6.912746E-003	-1.344422E-001	-2.439383E-001
514	2	-3.811774E-002	-6.912758E-003	-1.345056E-001	-2.439291E-001
514	3	-3.811814E-002	-6.989412E-003	-1.345081E-001	-2.438120E-001
514	4	-3.809894E-002	-6.989402E-003	-1.344392E-001	-2.438135E-001
514	5	-3.810843E-002	-6.912678E-003	-1.344743E-001	-2.439262E-001
514	6	-3.811823E-002	-6.911109E-003	-1.345066E-001	-2.438718E-001
514	7	-3.810847E-002	-6.989377E-003	-1.344740E-001	-2.438109E-001
514	8	-3.809886E-002	-6.911109E-003	-1.344414E-001	-2.438718E-001
514	9	-3.810859E-002	-6.911109E-003	-1.344738E-001	-2.438718E-001
515	1	-3.820253E-002	-7.121167E-003	-1.350893E-001	-2.512861E-001
515	2	-3.812058E-002	-7.121211E-003	-1.345147E-001	-2.512864E-001
515	3	-3.812048E-002	-7.149863E-003	-1.345147E-001	-2.522961E-001
515	4	-3.820261E-002	-7.149825E-003	-1.350890E-001	-2.522967E-001
515	5	-3.820184E-002	-7.121180E-003	-1.348023E-001	-2.512852E-001
515	6	-3.812063E-002	-7.135528E-003	-1.345140E-001	-2.517921E-001
515	7	-3.820137E-002	-7.149814E-003	-1.348018E-001	-2.522997E-001
515	8	-3.828281E-002	-7.135510E-003	-1.350898E-001	-2.517920E-001
515	9	-3.820161E-002	-7.135549E-003	-1.348019E-001	-2.517908E-001
516	1	-3.999697E-002	-7.368998E-003	-1.411356E-001	-2.600296E-001
516	2	-3.852116E-002	-7.369023E-003	-1.359297E-001	-2.600317E-001
516	3	-3.852132E-002	-7.628522E-003	-1.359312E-001	-2.691874E-001
516	4	-3.999622E-002	-7.628471E-003	-1.411340E-001	-2.691858E-001
516	5	-3.925857E-002	-7.368968E-003	-1.385321E-001	-2.600302E-001
516	6	-3.852205E-002	-7.498713E-003	-1.359315E-001	-2.646092E-001
516	7	-3.925857E-002	-7.628437E-003	-1.385321E-001	-2.691847E-001
516	8	-3.999669E-002	-7.498713E-003	-1.411364E-001	-2.646092E-001
516	9	-3.925857E-002	-7.498713E-003	-1.385321E-001	-2.646092E-001
517	1	-3.871145E-004	-8.982175E-005	-1.083720E-001	-3.169553E-001
517	2	-3.980485E-002	-8.980372E-003	-1.376324E-001	-3.168899E-001
517	3	-3.980422E-002	-7.524726E-003	-1.376336E-001	-2.655264E-001
517	4	-3.871161E-004	-7.526582E-005	-1.083728E-001	-2.655071E-001
517	5	-3.485789E-004	-8.981222E-005	-1.230037E-001	-3.169214E-001
517	6	-3.980411E-002	-8.252481E-003	-1.376337E-001	-2.912070E-001
517	7	-3.485824E-002	-7.525634E-003	-1.230038E-001	-2.655548E-001
517	8	-3.871199E-004	-8.254321E-005	-1.083733E-001	-2.912721E-001
517	9	-3.485782E-002	-8.253449E-003	-1.230038E-001	-2.912398E-001
518	1	-5.070163E-004	-6.782574E-005	-1.789100E-001	-2.393345E-001
518	2	-3.219734E-004	-6.782523E-005	-1.136149E-001	-2.393366E-001
518	3	-3.219774E-004	-1.003083E-004	-1.136149E-001	-3.539596E-001
518	4	-5.070133E-004	-1.003077E-004	-1.789107E-001	-3.539561E-001
518	5	-4.144933E-004	-6.782431E-005	-1.462619E-001	-2.393329E-001
518	6	-3.219803E-004	-8.406652E-005	-1.136163E-001	-2.966451E-001
518	7	-4.144933E-004	-1.003078E-004	-1.462619E-001	-3.539570E-001
518	8	-5.070183E-004	-8.406652E-005	-1.789110E-001	-2.966451E-001
518	9	-4.144933E-004	-8.406652E-005	-1.462619E-001	-2.966451E-001
519	1	-8.012071E-004	-7.714305E-005	-2.827224E-001	-2.722148E-001
519	2	-5.678577E-004	-7.718824E-005	-2.003801E-001	-2.723727E-001
519	3	-5.678580E-004	-1.181968E-004	-2.003804E-001	-4.170791E-001
519	4	-8.012051E-004	-1.181899E-004	-2.827219E-001	-4.170568E-001
519	5	-6.844684E-004	-7.716555E-005	-2.415309E-001	-2.722940E-001
519	6	-5.678547E-004	-9.769251E-005	-2.003775E-001	-3.447271E-001
519	7	-6.844684E-004	-1.181928E-004	-2.415309E-001	-4.170693E-001
519	8	-8.012188E-004	-9.766706E-005	-2.827224E-001	-3.446381E-001
519	9	-6.844684E-004	-9.767940E-005	-2.415309E-001	-3.446830E-001
520	1	-3.547956E-005	-1.786470E-005	-1.251956E-001	-6.303807E-001

520	2	-4.556690E-005	-1.539705E-005	-1.607883E-001	-5.433235E-001
520	3	-4.556345E-005	-1.422708E-005	-1.607880E-001	-5.820899E-001
520	4	-3.547912E-005	-1.642004E-005	-1.251948E-001	-5.793999E-001
520	5	-4.105091E-005	-1.650146E-005	-1.448516E-001	-5.822732E-001
520	6	-4.556413E-005	-1.481192E-005	-1.607819E-001	-5.226570E-001
520	7	-4.105091E-005	-1.520912E-005	-1.448516E-001	-5.366727E-001
520	8	-3.548326E-005	-1.714344E-005	-1.251952E-001	-6.049842E-001
520	9	-4.105091E-005	-1.585542E-005	-1.448516E-001	-5.594928E-001
521	1	-9.839794E-005	-4.118316E-005	-3.472053E-001	-1.453170E+000
521	2	-8.532247E-005	-4.206203E-005	-3.010669E-001	-1.484196E+000
521	3	-8.532211E-005	-4.920744E-005	-3.010665E-001	-1.736318E+000
521	4	-9.839817E-005	-4.860458E-005	-3.472052E-001	-1.717880E+000
521	5	-9.170167E-005	-4.163321E-005	-3.235742E-001	-1.469063E+000
521	6	-8.532246E-005	-4.563460E-005	-3.010641E-001	-1.610260E+000
521	7	-9.170128E-005	-4.895247E-005	-3.235757E-001	-1.727322E+000
521	8	-9.839736E-005	-4.493408E-005	-3.472043E-001	-1.585524E+000
521	9	-9.170142E-005	-4.529282E-005	-3.235752E-001	-1.598187E+000
522	1	-6.610173E-005	-2.018921E-005	-2.332421E-001	-7.123728E-001
522	2	-6.950644E-005	-1.971556E-005	-2.452552E-001	-6.956752E-001
522	3	-6.950490E-005	-1.895075E-005	-2.452468E-001	-6.686885E-001
522	4	-6.610264E-005	-1.933143E-005	-2.332507E-001	-6.821231E-001
522	5	-6.790069E-005	-1.993839E-005	-2.395918E-001	-7.035596E-001
522	6	-6.950477E-005	-1.933340E-005	-2.452561E-001	-6.821071E-001
522	7	-6.789975E-005	-1.913036E-005	-2.395929E-001	-6.750272E-001
522	8	-6.610477E-005	-1.976047E-005	-2.332502E-001	-6.972703E-001
522	9	-6.790012E-005	-1.953472E-005	-2.395933E-001	-6.892886E-001
523	1	-1.156527E-004	-3.696257E-005	-4.080908E-001	-1.384247E+000
523	2	-1.022464E-004	-3.786608E-005	-3.607844E-001	-1.336136E+000
523	3	-1.022457E-004	-4.466158E-005	-3.607833E-001	-1.575919E+000
523	4	-1.156529E-004	-4.412880E-005	-4.080918E-001	-1.557113E+000
523	5	-1.087716E-004	-3.742595E-005	-3.838869E-001	-1.320605E+000
523	6	-1.022456E-004	-4.126375E-005	-3.607830E-001	-1.456023E+000
523	7	-1.087716E-004	-4.440212E-005	-3.838869E-001	-1.566761E+000
523	8	-1.156518E-004	-4.054567E-005	-4.080889E-001	-1.430682E+000
523	9	-1.087716E-004	-4.091425E-005	-3.838869E-001	-1.443687E+000
524	1	-7.745252E-005	-2.209254E-005	-2.732956E-001	-7.795532E-001
524	2	-8.051129E-005	-2.177669E-005	-2.840899E-001	-7.684011E-001
524	3	-8.051137E-005	-2.887136E-005	-2.840908E-001	-7.364610E-001
524	4	-7.745183E-005	-2.110392E-005	-2.732949E-001	-7.446576E-001
524	5	-7.904870E-005	-2.192751E-005	-2.789333E-001	-7.737334E-001
524	6	-8.051065E-005	-2.132383E-005	-2.840906E-001	-7.524328E-001
524	7	-7.905091E-005	-2.098226E-005	-2.789334E-001	-7.403674E-001
524	8	-7.745264E-005	-2.159790E-005	-2.732956E-001	-7.621068E-001
524	9	-7.904958E-005	-2.145500E-005	-2.789324E-001	-7.570493E-001
525	1	-5.155473E-005	-1.704094E-005	-1.819120E-001	-6.013145E-001
525	2	-5.688424E-005	-1.610822E-005	-2.007245E-001	-5.683884E-001
525	3	-5.688658E-005	-1.529572E-005	-2.007298E-001	-5.397311E-001
525	4	-5.155695E-005	-1.607746E-005	-1.819141E-001	-5.672922E-001
525	5	-5.444941E-005	-1.653468E-005	-1.921285E-001	-5.834376E-001
525	6	-5.688538E-005	-1.570219E-005	-2.007274E-001	-5.540737E-001
525	7	-5.444767E-005	-1.565359E-005	-1.921228E-001	-5.523485E-001
525	8	-5.155638E-005	-1.655908E-005	-1.819267E-001	-5.843053E-001
525	9	-5.444881E-005	-1.609375E-005	-1.921272E-001	-5.678926E-001
526	1	-1.079598E-004	-3.317081E-005	-3.809468E-001	-1.170459E+000
526	2	-1.165534E-004	-3.259316E-005	-4.112684E-001	-1.150076E+000
526	3	-1.165534E-004	-2.850971E-005	-4.112671E-001	-1.005980E+000
526	4	-1.079605E-004	-2.885278E-005	-3.809453E-001	-1.018104E+000
526	5	-1.123768E-004	-3.287385E-005	-3.965296E-001	-1.159984E+000
526	6	-1.165527E-004	-3.055148E-005	-4.112649E-001	-1.078023E+000
526	7	-1.123769E-004	-2.867618E-005	-3.965295E-001	-1.011862E+000

526	8	-1.079607E-004	-3.101187E-005	-3.809461E-001	-1.094275E+000
526	9	-1.123760E-004	-3.077507E-005	-3.965288E-001	-1.085926E+000
527	1	-3.903888E-005	-1.528301E-005	-1.377561E-001	-5.392578E-001
527	2	-4.707841E-005	-1.359766E-005	-1.661283E-001	-4.797970E-001
527	3	-4.707896E-005	-1.266355E-005	-1.661244E-001	-4.468330E-001
527	4	-3.903719E-005	-1.412592E-005	-1.377550E-001	-4.984355E-001
527	5	-4.348792E-005	-1.434995E-005	-1.534515E-001	-5.063437E-001
527	6	-4.707955E-005	-1.313044E-005	-1.661226E-001	-4.633166E-001
527	7	-4.348792E-005	-1.331646E-005	-1.534515E-001	-4.698788E-001
527	8	-3.904511E-005	-1.470336E-005	-1.377555E-001	-5.188112E-001
527	9	-4.348792E-005	-1.383338E-005	-1.534515E-001	-4.881319E-001
528	1	-6.113636E-005	-1.806652E-005	-2.157185E-001	-6.374847E-001
528	2	-6.585225E-005	-1.751961E-005	-2.295379E-001	-6.181970E-001
528	3	-6.585188E-005	-1.678173E-005	-2.295388E-001	-5.921680E-001
528	4	-6.113567E-005	-1.721855E-005	-2.157185E-001	-6.075652E-001
528	5	-6.323052E-005	-1.777439E-005	-2.231157E-001	-6.271696E-001
528	6	-6.585260E-005	-1.715091E-005	-2.295385E-001	-6.051806E-001
528	7	-6.323052E-005	-1.698491E-005	-2.231157E-001	-5.993316E-001
528	8	-6.113323E-005	-1.764319E-005	-2.157177E-001	-6.225331E-001
528	9	-6.323052E-005	-1.737951E-005	-2.231157E-001	-6.132516E-001
529	1	-7.345528E-005	-2.051274E-005	-2.591918E-001	-7.238017E-001
529	2	-7.655704E-005	-2.019522E-005	-2.701388E-001	-7.126142E-001
529	3	-7.655715E-005	-1.939360E-005	-2.701361E-001	-6.843210E-001
529	4	-7.345516E-005	-1.962553E-005	-2.591936E-001	-6.925040E-001
529	5	-7.508506E-005	-2.034573E-005	-2.649434E-001	-7.179223E-001
529	6	-7.655888E-005	-1.979435E-005	-2.701391E-001	-6.984594E-001
529	7	-7.508506E-005	-1.950345E-005	-2.649434E-001	-6.882041E-001
529	8	-7.345403E-005	-2.006910E-005	-2.591893E-001	-7.081580E-001
529	9	-7.508506E-005	-1.992483E-005	-2.649434E-001	-7.030604E-001
530	1	-1.053617E-004	-2.846585E-005	-3.717770E-001	-1.004447E+000
530	2	-1.064764E-004	-2.839028E-005	-3.757108E-001	-1.001774E+000
530	3	-1.064765E-004	-2.798155E-005	-3.757102E-001	-9.845240E-001
530	4	-1.053606E-004	-2.794571E-005	-3.717771E-001	-9.860786E-001
530	5	-1.059365E-004	-2.842650E-005	-3.738035E-001	-1.003059E+000
530	6	-1.064762E-004	-2.814507E-005	-3.757090E-001	-9.931498E-001
530	7	-1.059365E-004	-2.792225E-005	-3.738035E-001	-9.852622E-001
530	8	-1.053610E-004	-2.820561E-005	-3.717738E-001	-9.952538E-001
530	9	-1.059365E-004	-2.817472E-005	-3.738035E-001	-9.941697E-001
531	1	-9.600787E-005	-2.572033E-005	-3.387743E-001	-9.075653E-001
531	2	-1.040949E-004	-2.517633E-005	-3.673073E-001	-8.883635E-001
531	3	-1.040949E-004	-2.191525E-005	-3.673087E-001	-7.733035E-001
531	4	-9.600892E-005	-2.223836E-005	-3.387733E-001	-7.846975E-001
531	5	-1.001840E-004	-2.543952E-005	-3.535095E-001	-8.976525E-001
531	6	-1.040946E-004	-2.354573E-005	-3.673062E-001	-8.308359E-001
531	7	-1.001850E-004	-2.207179E-005	-3.535097E-001	-7.788273E-001
531	8	-9.600922E-005	-2.397933E-005	-3.387781E-001	-8.461305E-001
531	9	-1.001840E-004	-2.375554E-005	-3.535077E-001	-8.382319E-001
532	1	-2.644490E-005	-9.607585E-006	-9.329952E-002	-3.389870E-001
532	2	-3.292875E-005	-8.880720E-006	-1.162008E-001	-2.825974E-001
532	3	-3.293271E-005	-7.483389E-006	-1.162133E-001	-2.640516E-001
532	4	-2.644475E-005	-8.901393E-006	-9.329946E-002	-3.141093E-001
532	5	-3.016114E-005	-8.691666E-006	-1.064301E-001	-3.066962E-001
532	6	-3.293329E-005	-7.746791E-006	-1.162018E-001	-2.733243E-001
532	7	-3.016321E-005	-8.888427E-006	-1.064304E-001	-2.854017E-001
532	8	-2.644072E-005	-9.253466E-006	-9.329794E-002	-3.265312E-001
532	9	-3.015938E-005	-8.390270E-006	-1.064303E-001	-2.960441E-001
533	1	-6.934857E-005	-1.873881E-005	-2.447071E-001	-6.612126E-001
533	2	-7.254112E-005	-1.840760E-005	-2.559712E-001	-6.495237E-001
533	3	-7.254128E-005	-1.769266E-005	-2.559696E-001	-6.242882E-001
533	4	-6.934920E-005	-1.793460E-005	-2.447069E-001	-6.328368E-001

533	5	-7.103867E-005	-1.856352E-005	-2.506639E-001	-6.550378E-001
533	6	-7.254301E-005	-1.804966E-005	-2.559728E-001	-6.368917E-001
533	7	-7.103930E-005	-1.780599E-005	-2.506639E-001	-6.283055E-001
533	8	-6.935021E-005	-1.833694E-005	-2.447002E-001	-6.470270E-001
533	9	-7.103795E-005	-1.810501E-005	-2.506630E-001	-6.416736E-001
534	1	-4.375468E-005	-1.299062E-005	-1.543940E-001	-4.583583E-001
534	2	-4.990740E-005	-1.192155E-005	-1.761040E-001	-4.206446E-001
534	3	-4.990466E-005	-1.121128E-005	-1.760982E-001	-3.955939E-001
534	4	-4.375442E-005	-1.210991E-005	-1.543958E-001	-4.272953E-001
534	5	-4.716101E-005	-1.239871E-005	-1.664071E-001	-4.374855E-001
534	6	-4.990731E-005	-1.156556E-005	-1.761041E-001	-4.081191E-001
534	7	-4.716101E-005	-1.161222E-005	-1.664071E-001	-4.097497E-001
534	8	-4.375790E-005	-1.255051E-005	-1.543933E-001	-4.428674E-001
534	9	-4.716101E-005	-1.200550E-005	-1.664071E-001	-4.236141E-001
535	1	-5.519139E-005	-1.529561E-005	-1.947469E-001	-5.397384E-001
535	2	-5.989687E-005	-1.464409E-005	-2.113579E-001	-5.167432E-001
535	3	-5.989764E-005	-1.392492E-005	-2.113579E-001	-4.913470E-001
535	4	-5.519849E-005	-1.444809E-005	-1.947513E-001	-5.098048E-001
535	5	-5.773674E-005	-1.494331E-005	-2.037239E-001	-5.272965E-001
535	6	-5.989625E-005	-1.428472E-005	-2.113470E-001	-5.040447E-001
535	7	-5.773709E-005	-1.416501E-005	-2.037312E-001	-4.998295E-001
535	8	-5.518034E-005	-1.487203E-005	-1.947346E-001	-5.247697E-001
535	9	-5.773680E-005	-1.455405E-005	-2.037306E-001	-5.135582E-001
536	1	-8.945903E-005	-2.341815E-005	-3.156630E-001	-8.263250E-001
536	2	-9.411544E-005	-2.310419E-005	-3.320941E-001	-8.152533E-001
536	3	-9.411571E-005	-2.140495E-005	-3.320964E-001	-7.552947E-001
536	4	-8.945660E-005	-2.158997E-005	-3.156586E-001	-7.618297E-001
536	5	-9.187174E-005	-2.325558E-005	-3.241789E-001	-8.205858E-001
536	6	-9.411582E-005	-2.225488E-005	-3.320967E-001	-7.852722E-001
536	7	-9.187174E-005	-2.149381E-005	-3.241789E-001	-7.584350E-001
536	8	-8.945735E-005	-2.250396E-005	-3.156608E-001	-7.940771E-001
536	9	-9.187174E-005	-2.237491E-005	-3.241789E-001	-7.895175E-001
537	1	-3.453075E-005	-7.021843E-006	-1.218320E-001	-2.477251E-001
537	2	-3.725445E-005	-6.447740E-006	-1.314497E-001	-2.275267E-001
537	3	-3.725477E-005	-6.226484E-006	-1.314626E-001	-2.197284E-001
537	4	-3.452781E-005	-6.725344E-006	-1.218324E-001	-2.372794E-001
537	5	-3.608977E-005	-6.693503E-006	-1.273461E-001	-2.361437E-001
537	6	-3.725530E-005	-6.337661E-006	-1.314652E-001	-2.236177E-001
537	7	-3.609060E-005	-6.438921E-006	-1.273475E-001	-2.272101E-001
537	8	-3.452367E-005	-6.872718E-006	-1.218338E-001	-2.425466E-001
537	9	-3.609056E-005	-6.566814E-006	-1.273476E-001	-2.317003E-001
538	1	-8.471365E-005	-2.193946E-005	-2.989153E-001	-7.741439E-001
538	2	-8.824925E-005	-2.170150E-005	-3.113987E-001	-7.657523E-001
538	3	-8.824896E-005	-2.052680E-005	-3.113940E-001	-7.243103E-001
538	4	-8.471277E-005	-2.066840E-005	-2.989172E-001	-7.292934E-001
538	5	-8.655104E-005	-2.181514E-005	-3.054047E-001	-7.697738E-001
538	6	-8.824856E-005	-2.111425E-005	-3.113963E-001	-7.450366E-001
538	7	-8.655059E-005	-2.059467E-005	-3.054001E-001	-7.266971E-001
538	8	-8.471156E-005	-2.130385E-005	-2.989147E-001	-7.517213E-001
538	9	-8.655110E-005	-2.120537E-005	-3.054026E-001	-7.482474E-001
539	1	-6.480644E-005	-1.658815E-005	-2.286811E-001	-5.853510E-001
539	2	-6.837676E-005	-1.622096E-005	-2.412688E-001	-5.723717E-001
539	3	-6.837433E-005	-1.554961E-005	-2.412638E-001	-5.486836E-001
539	4	-6.480798E-005	-1.581862E-005	-2.286824E-001	-5.581622E-001
539	5	-6.671256E-005	-1.639223E-005	-2.354081E-001	-5.784074E-001
539	6	-6.837206E-005	-1.580541E-005	-2.412638E-001	-5.605285E-001
539	7	-6.671256E-005	-1.567495E-005	-2.354081E-001	-5.531092E-001
539	8	-6.480698E-005	-1.620345E-005	-2.286741E-001	-5.717497E-001
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540	2	-8.374992E-005	-2.037475E-005	-2.955158E-001	-7.189481E-001
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540	5	-8.229436E-005	-2.047390E-005	-2.903833E-001	-7.224503E-001
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540	8	-8.069894E-005	-2.008799E-005	-2.847547E-001	-7.088237E-001
540	9	-8.229447E-005	-2.000236E-005	-2.903807E-001	-7.058024E-001
541	1	-4.986585E-005	-1.112782E-005	-1.731284E-001	-3.926299E-001
541	2	-5.381847E-005	-1.047154E-005	-1.898962E-001	-3.694899E-001
541	3	-5.381900E-005	-9.919574E-006	-1.899058E-001	-3.500106E-001
541	4	-4.986547E-005	-1.044398E-005	-1.731297E-001	-3.685411E-001
541	5	-5.169493E-005	-1.076485E-005	-1.824103E-001	-3.798475E-001
541	6	-5.381948E-005	-1.019546E-005	-1.898977E-001	-3.597555E-001
541	7	-5.169493E-005	-1.015372E-005	-1.824103E-001	-3.582760E-001
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542	1	-4.167092E-005	-5.394114E-006	-1.470320E-001	-1.903363E-001
542	2	-4.251600E-005	-5.245484E-006	-1.500220E-001	-1.850787E-001
542	3	-4.252099E-005	-5.177210E-006	-1.500397E-001	-1.826740E-001
542	4	-4.166734E-005	-5.302738E-006	-1.470176E-001	-1.871104E-001
542	5	-4.215108E-005	-5.308624E-006	-1.487419E-001	-1.873415E-001
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542	7	-4.215360E-005	-5.230731E-006	-1.487503E-001	-1.845635E-001
542	8	-4.166764E-005	-5.346932E-006	-1.470187E-001	-1.887027E-001
542	9	-4.215327E-005	-5.270042E-006	-1.487415E-001	-1.859472E-001
543	1	-5.963101E-005	-1.374176E-005	-2.104104E-001	-4.848945E-001
543	2	-6.370766E-005	-1.332063E-005	-2.248017E-001	-4.700490E-001
543	3	-6.370867E-005	-1.269760E-005	-2.248025E-001	-4.480510E-001
543	4	-5.963220E-005	-1.300741E-005	-2.104157E-001	-4.589760E-001
543	5	-6.183727E-005	-1.351406E-005	-2.181932E-001	-4.768373E-001
543	6	-6.370732E-005	-1.300946E-005	-2.247921E-001	-4.590560E-001
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543	8	-5.963141E-005	-1.337443E-005	-2.104199E-001	-4.719228E-001
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544	1	-7.675891E-005	-1.913662E-005	-2.708553E-001	-6.752419E-001
544	2	-7.988855E-005	-1.893275E-005	-2.816146E-001	-6.680487E-001
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544	4	-7.675945E-005	-1.826603E-005	-2.708524E-001	-6.445405E-001
544	5	-7.836140E-005	-1.902987E-005	-2.765010E-001	-6.714870E-001
544	6	-7.988871E-005	-1.853891E-005	-2.816123E-001	-6.541616E-001
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545	8	-7.319434E-005	-1.709797E-005	-2.582727E-001	-6.033218E-001
545	9	-7.463480E-005	-1.702871E-005	-2.633576E-001	-6.005867E-001
546	1	-4.794224E-005	-4.386213E-006	-1.691616E-001	-1.547794E-001
546	2	-4.815792E-005	-4.356772E-006	-1.699251E-001	-1.537290E-001
546	3	-4.815483E-005	-4.339921E-006	-1.699125E-001	-1.531182E-001
546	4	-4.794629E-005	-4.363523E-006	-1.691632E-001	-1.539686E-001
546	5	-4.806387E-005	-4.368631E-006	-1.696051E-001	-1.541598E-001
546	6	-4.815796E-005	-4.347743E-006	-1.699258E-001	-1.534142E-001
546	7	-4.806587E-005	-4.349367E-006	-1.696021E-001	-1.534905E-001

546	8	-4.794278E-005	-4.374949E-006	-1.691640E-001	-1.543485E-001
546	9	-4.806708E-005	-4.359559E-006	-1.696028E-001	-1.538397E-001
547	1	-5.457363E-005	-9.677049E-006	-1.925791E-001	-3.414580E-001
547	2	-5.846879E-005	-9.278074E-006	-2.063070E-001	-3.273844E-001
547	3	-5.846973E-005	-8.826228E-006	-2.063115E-001	-3.114286E-001
547	4	-5.457611E-005	-9.117039E-006	-1.925845E-001	-3.217010E-001
547	5	-5.672905E-005	-9.456804E-006	-2.001716E-001	-3.336698E-001
547	6	-5.846738E-005	-9.052527E-006	-2.063091E-001	-3.194125E-001
547	7	-5.672905E-005	-8.955676E-006	-2.001716E-001	-3.160181E-001
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548	2	-7.234459E-005	-1.508179E-005	-2.552747E-001	-5.321714E-001
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549	1	-3.986927E-002	-3.941194E-004	-1.406864E-001	-1.390623E-002
549	2	-3.990197E-002	-3.940944E-004	-1.408030E-001	-1.390664E-002
549	3	-3.990170E-002	-3.882324E-004	-1.407999E-001	-1.369987E-002
549	4	-3.986897E-002	-3.882417E-004	-1.406852E-001	-1.370199E-002
549	5	-3.988564E-002	-3.940696E-004	-1.407431E-001	-1.390453E-002
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551	1	-3.958066E-002	-1.937568E-003	-1.396689E-001	-6.837166E-002
551	2	-3.972603E-002	-1.937458E-003	-1.401814E-001	-6.836961E-002
551	3	-3.972577E-002	-1.912102E-003	-1.401815E-001	-6.747135E-002
551	4	-3.958069E-002	-1.912088E-003	-1.396695E-001	-6.747004E-002
551	5	-3.965313E-002	-1.937541E-003	-1.399255E-001	-6.837060E-002
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552	1	-3.934677E-002	-2.669620E-003	-1.388448E-001	-9.420171E-002
552	2	-3.953233E-002	-2.669597E-003	-1.394968E-001	-9.420192E-002
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552	6	-3.953186E-002	-2.653287E-003	-1.394972E-001	-9.362654E-002
552	7	-3.943934E-002	-2.637076E-003	-1.391699E-001	-9.305329E-002
552	8	-3.934616E-002	-2.653248E-003	-1.388424E-001	-9.362762E-002
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553	1	-3.907619E-002	-3.361954E-003	-1.378893E-001	-1.186339E-001
553	2	-3.928809E-002	-3.361856E-003	-1.386370E-001	-1.186307E-001
553	3	-3.928825E-002	-3.324477E-003	-1.386378E-001	-1.173141E-001
553	4	-3.907576E-002	-3.324579E-003	-1.378889E-001	-1.173140E-001

553	5	-3.918255E-002	-3.361922E-003	-1.382635E-001	-1.186334E-001
553	6	-3.928817E-002	-3.343217E-003	-1.386375E-001	-1.179727E-001
553	7	-3.918239E-002	-3.324579E-003	-1.382632E-001	-1.173115E-001
553	8	-3.907589E-002	-3.343229E-003	-1.378856E-001	-1.179733E-001
553	9	-3.918247E-002	-3.343205E-003	-1.382626E-001	-1.179740E-001
554	1	-3.879115E-002	-4.004751E-003	-1.368818E-001	-1.413149E-001
554	2	-3.901269E-002	-4.004742E-003	-1.376650E-001	-1.413176E-001
554	3	-3.901248E-002	-3.965685E-003	-1.376654E-001	-1.399353E-001
554	4	-3.879127E-002	-3.965676E-003	-1.368829E-001	-1.399360E-001
554	5	-3.890160E-002	-4.004630E-003	-1.372726E-001	-1.413151E-001
554	6	-3.901294E-002	-3.985225E-003	-1.376653E-001	-1.406259E-001
554	7	-3.890160E-002	-3.965674E-003	-1.372726E-001	-1.399374E-001
554	8	-3.879057E-002	-3.985283E-003	-1.368833E-001	-1.406262E-001
554	9	-3.890160E-002	-3.985201E-003	-1.372726E-001	-1.406263E-001
555	1	-3.851125E-002	-4.592138E-003	-1.358949E-001	-1.620435E-001
555	2	-3.872688E-002	-4.592066E-003	-1.366565E-001	-1.620407E-001
555	3	-3.872715E-002	-4.554027E-003	-1.366575E-001	-1.607009E-001
555	4	-3.851061E-002	-4.554075E-003	-1.358925E-001	-1.607005E-001
555	5	-3.861934E-002	-4.592071E-003	-1.362751E-001	-1.620398E-001
555	6	-3.872760E-002	-4.573066E-003	-1.366570E-001	-1.613693E-001
555	7	-3.861934E-002	-4.553958E-003	-1.362751E-001	-1.606975E-001
555	8	-3.851102E-002	-4.573123E-003	-1.358934E-001	-1.613713E-001
555	9	-3.861934E-002	-4.573038E-003	-1.362751E-001	-1.613711E-001
556	1	-3.825534E-002	-5.119287E-003	-1.349908E-001	-1.806444E-001
556	2	-3.845070E-002	-5.119260E-003	-1.356820E-001	-1.806452E-001
556	3	-3.845093E-002	-5.084927E-003	-1.356817E-001	-1.794316E-001
556	4	-3.825539E-002	-5.084942E-003	-1.349917E-001	-1.794340E-001
556	5	-3.835312E-002	-5.119298E-003	-1.353374E-001	-1.806463E-001
556	6	-3.845150E-002	-5.102083E-003	-1.356819E-001	-1.800396E-001
556	7	-3.835312E-002	-5.084905E-003	-1.353374E-001	-1.794328E-001
556	8	-3.825575E-002	-5.102083E-003	-1.349913E-001	-1.800396E-001
556	9	-3.835312E-002	-5.102083E-003	-1.353374E-001	-1.800396E-001
557	1	-3.803539E-002	-5.584404E-003	-1.342147E-001	-1.970550E-001
557	2	-3.820246E-002	-5.584415E-003	-1.348047E-001	-1.970583E-001
557	3	-3.820271E-002	-5.554936E-003	-1.348049E-001	-1.960202E-001
557	4	-3.803524E-002	-5.554924E-003	-1.342148E-001	-1.960177E-001
557	5	-3.811871E-002	-5.584472E-003	-1.345098E-001	-1.970590E-001
557	6	-3.820254E-002	-5.569713E-003	-1.348047E-001	-1.965392E-001
557	7	-3.811909E-002	-5.555022E-003	-1.345115E-001	-1.960218E-001
557	8	-3.803532E-002	-5.569729E-003	-1.342157E-001	-1.965377E-001
557	9	-3.811919E-002	-5.569646E-003	-1.345120E-001	-1.965370E-001
558	1	-3.786855E-002	-5.987986E-003	-1.335980E-001	-2.112995E-001
558	2	-3.799222E-002	-5.988058E-003	-1.340632E-001	-2.112999E-001
558	3	-3.799176E-002	-5.964834E-003	-1.340633E-001	-2.104810E-001
558	4	-3.785962E-002	-5.964916E-003	-1.335969E-001	-2.104853E-001
558	5	-3.792619E-002	-5.987945E-003	-1.338307E-001	-2.112994E-001
558	6	-3.799208E-002	-5.976436E-003	-1.340607E-001	-2.108920E-001
558	7	-3.792633E-002	-5.964946E-003	-1.338307E-001	-2.104864E-001
558	8	-3.786065E-002	-5.976473E-003	-1.335965E-001	-2.108917E-001
558	9	-3.792626E-002	-5.976459E-003	-1.338313E-001	-2.108911E-001
559	1	-3.773391E-002	-6.334599E-003	-1.331524E-001	-2.235318E-001
559	2	-3.782779E-002	-6.334721E-003	-1.334833E-001	-2.235300E-001
559	3	-3.782801E-002	-6.318016E-003	-1.334836E-001	-2.229452E-001
559	4	-3.773372E-002	-6.318064E-003	-1.331505E-001	-2.229460E-001
559	5	-3.778063E-002	-6.334508E-003	-1.333165E-001	-2.235291E-001
559	6	-3.782797E-002	-6.326308E-003	-1.334835E-001	-2.232376E-001
559	7	-3.778054E-002	-6.318112E-003	-1.333166E-001	-2.229437E-001
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560	1	-3.766065E-002	-6.635239E-003	-1.328926E-001	-2.341386E-001

560	2	-3.771285E-002	-6.635231E-003	-1.330764E-001	-2.341371E-001
560	3	-3.771286E-002	-6.626242E-003	-1.330771E-001	-2.338227E-001
560	4	-3.766073E-002	-6.626235E-003	-1.328924E-001	-2.338204E-001
560	5	-3.768675E-002	-6.635369E-003	-1.329850E-001	-2.341435E-001
560	6	-3.771232E-002	-6.630653E-003	-1.330769E-001	-2.339786E-001
560	7	-3.768675E-002	-6.626137E-003	-1.329850E-001	-2.338164E-001
560	8	-3.766045E-002	-6.630752E-003	-1.328910E-001	-2.339784E-001
560	9	-3.768675E-002	-6.630745E-003	-1.329850E-001	-2.339792E-001
561	1	-3.763677E-002	-6.908594E-003	-1.328082E-001	-2.437827E-001
561	2	-3.765097E-002	-6.908624E-003	-1.328593E-001	-2.437830E-001
561	3	-3.765137E-002	-6.906891E-003	-1.328596E-001	-2.436931E-001
561	4	-3.763617E-002	-6.906107E-003	-1.328072E-001	-2.436936E-001
561	5	-3.764408E-002	-6.908559E-003	-1.328348E-001	-2.437814E-001
561	6	-3.765146E-002	-6.907287E-003	-1.328599E-001	-2.437395E-001
561	7	-3.764399E-002	-6.905997E-003	-1.328343E-001	-2.436928E-001
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562	1	-3.795766E-002	-7.161228E-003	-1.339394E-001	-2.526905E-001
562	2	-3.767578E-002	-7.161299E-003	-1.329467E-001	-2.527034E-001
562	3	-3.767567E-002	-7.211114E-003	-1.329466E-001	-2.544542E-001
562	4	-3.795794E-002	-7.210922E-003	-1.339410E-001	-2.544554E-001
562	5	-3.781649E-002	-7.161275E-003	-1.334428E-001	-2.526999E-001
562	6	-3.767583E-002	-7.186168E-003	-1.329465E-001	-2.535782E-001
562	7	-3.781655E-002	-7.210946E-003	-1.334434E-001	-2.544548E-001
562	8	-3.795746E-002	-7.186079E-003	-1.339405E-001	-2.535770E-001
562	9	-3.781628E-002	-7.186085E-003	-1.334435E-001	-2.535763E-001
563	1	-3.741807E-002	-7.653221E-003	-1.320385E-001	-2.700598E-001
563	2	-3.792477E-002	-7.653178E-003	-1.338259E-001	-2.700620E-001
563	3	-3.792492E-002	-7.564137E-003	-1.338254E-001	-2.669144E-001
563	4	-3.741828E-002	-7.564137E-003	-1.320388E-001	-2.669144E-001
563	5	-3.767125E-002	-7.653247E-003	-1.329313E-001	-2.700602E-001
563	6	-3.792523E-002	-7.608699E-003	-1.338256E-001	-2.684859E-001
563	7	-3.767125E-002	-7.564137E-003	-1.329313E-001	-2.669144E-001
563	8	-3.741807E-002	-7.608699E-003	-1.320379E-001	-2.684859E-001
563	9	-3.767125E-002	-7.608699E-003	-1.329313E-001	-2.684859E-001
564	1	-4.057575E-004	-7.384537E-005	-1.431798E-001	-2.605766E-001
564	2	-3.775369E-002	-7.385080E-003	-1.332234E-001	-2.605948E-001
564	3	-3.775434E-002	-7.879846E-003	-1.332248E-001	-2.780550E-001
564	4	-4.057528E-002	-7.879792E-003	-1.431811E-001	-2.780542E-001
564	5	-3.916478E-002	-7.384769E-003	-1.381995E-001	-2.605861E-001
564	6	-3.775428E-002	-7.632364E-003	-1.332235E-001	-2.693273E-001
564	7	-3.916402E-002	-7.879776E-003	-1.381994E-001	-2.780588E-001
564	8	-4.284198E-002	-8.058320E-003	-1.431811E-001	-2.693163E-001
564	9	-3.916435E-002	-7.632335E-003	-1.381996E-001	-2.693209E-001
565	1	-1.838230E-004	-1.000005E-004	-6.486580E-002	-3.528732E-001
565	2	-3.811236E-004	-9.999603E-005	-1.344882E-001	-3.528565E-001
565	3	-3.811270E-004	-6.536450E-005	-1.344897E-001	-2.386522E-001
565	4	-1.838254E-004	-6.540218E-005	-6.486458E-002	-2.387833E-001
565	5	-2.824249E-004	-9.999795E-005	-9.966044E-002	-3.528655E-001
565	6	-3.811231E-004	-8.268833E-005	-1.344888E-001	-2.917521E-001
565	7	-2.824249E-004	-6.538317E-005	-9.966044E-002	-2.387204E-001
565	8	-1.838196E-004	-8.270122E-005	-6.486355E-002	-2.918292E-001
565	9	-2.824249E-004	-8.269058E-005	-9.966044E-002	-2.917905E-001
566	1	-1.388813E-003	-1.517303E-004	-4.900705E-001	-5.354104E-001
566	2	-3.118388E-004	-1.517297E-004	-1.100389E-001	-5.354102E-001
566	3	-3.118385E-004	-3.412024E-004	-1.100390E-001	-1.204802E+000
566	4	-1.388814E-003	-3.412031E-004	-4.900700E-001	-1.204801E+000
566	5	-8.503267E-004	-1.517298E-004	-3.000548E-001	-5.354086E-001
566	6	-3.118411E-004	-2.464660E-004	-1.100396E-001	-8.697075E-001
566	7	-8.503267E-004	-3.412010E-004	-3.000548E-001	-1.204800E+000

566	8	-1.388814E-003	-2.464660E-004	-4.900719E-001	-8.697075E-001
566	9	-8.503267E-004	-2.464660E-004	-3.000548E-001	-8.697075E-001
567	1	-1.914720E-004	-4.914109E-005	-6.756226E-001	-1.733983E+000
567	2	-1.590186E-004	-5.817652E-005	-5.611082E-001	-1.770515E+000
567	3	-1.590186E-004	-6.791215E-005	-5.611088E-001	-2.396336E+000
567	4	-1.914719E-004	-6.778898E-005	-6.756214E-001	-2.391718E+000
567	5	-1.748421E-004	-4.967205E-005	-6.169437E-001	-1.752718E+000
567	6	-1.590183E-004	-5.904463E-005	-5.611095E-001	-2.083434E+000
567	7	-1.748428E-004	-6.784846E-005	-6.169447E-001	-2.394875E+000
567	8	-1.914719E-004	-5.846103E-005	-6.756222E-001	-2.062841E+000
567	9	-1.748423E-004	-5.876002E-005	-6.169447E-001	-2.073398E+000
568	1	-1.322703E-004	-4.010601E-005	-4.667296E-001	-1.417995E+000
568	2	-1.887388E-004	-3.839678E-005	-6.659796E-001	-1.354854E+000
568	3	-1.887387E-004	-9.773315E-006	-6.659814E-001	-3.448717E-001
568	4	-1.322712E-004	-1.000078E-005	-4.667295E-001	-3.528898E-001
568	5	-1.612553E-004	-3.926702E-005	-5.690015E-001	-1.385576E+000
568	6	-1.887389E-004	-2.408489E-005	-6.659805E-001	-8.498577E-001
568	7	-1.612553E-004	-9.884351E-006	-5.690015E-001	-3.487735E-001
568	8	-1.322705E-004	-2.589337E-005	-4.667267E-001	-8.854349E-001
568	9	-1.612553E-004	-2.457582E-005	-5.690015E-001	-8.671750E-001
569	1	-6.455344E-005	-1.245053E-005	-2.277820E-001	-4.393500E-001
569	2	-6.818090E-005	-1.220529E-005	-2.405786E-001	-4.306600E-001
569	3	-6.818722E-005	-1.165260E-005	-2.405784E-001	-4.111778E-001
569	4	-6.455451E-005	-1.179524E-005	-2.277790E-001	-4.162108E-001
569	5	-6.652101E-005	-1.231725E-005	-2.347298E-001	-4.346410E-001
569	6	-6.817882E-005	-1.192894E-005	-2.405759E-001	-4.209200E-001
569	7	-6.652243E-005	-1.171822E-005	-2.347229E-001	-4.134889E-001
569	8	-6.455211E-005	-1.212287E-005	-2.277844E-001	-4.277668E-001
569	9	-6.652172E-005	-1.201760E-005	-2.347259E-001	-4.240500E-001
570	1	-1.489664E-004	-2.838578E-005	-5.256392E-001	-1.001603E+000
570	2	-1.265888E-004	-2.909985E-005	-4.466784E-001	-1.026808E+000
570	3	-1.265883E-004	-3.971887E-005	-4.466769E-001	-1.401518E+000
570	4	-1.489665E-004	-3.962825E-005	-5.256392E-001	-1.398322E+000
570	5	-1.374584E-004	-2.875308E-005	-4.850315E-001	-1.014568E+000
570	6	-1.265886E-004	-3.440955E-005	-4.466788E-001	-1.214168E+000
570	7	-1.374584E-004	-3.967525E-005	-4.850311E-001	-1.399971E+000
570	8	-1.489659E-004	-3.408707E-005	-5.256373E-001	-1.199966E+000
570	9	-1.374572E-004	-3.421396E-005	-4.850292E-001	-1.207276E+000
571	1	-5.345964E-005	-3.758195E-006	-1.886449E-001	-1.326306E-001
571	2	-5.381183E-005	-3.722482E-006	-1.898722E-001	-1.313380E-001
571	3	-5.381578E-005	-3.693877E-006	-1.898845E-001	-1.303372E-001
571	4	-5.345942E-005	-3.721323E-006	-1.886441E-001	-1.312868E-001
571	5	-5.366310E-005	-3.738244E-006	-1.893609E-001	-1.318917E-001
571	6	-5.381194E-005	-3.708036E-006	-1.898722E-001	-1.308452E-001
571	7	-5.366445E-005	-3.705426E-006	-1.893663E-001	-1.307358E-001
571	8	-5.346325E-005	-3.739827E-006	-1.886445E-001	-1.319604E-001
571	9	-5.366098E-005	-3.721705E-006	-1.893675E-001	-1.313162E-001
572	1	-1.096676E-004	-2.516124E-005	-3.869698E-001	-8.878360E-001
572	2	-1.473278E-004	-2.398359E-005	-5.198578E-001	-8.462694E-001
572	3	-1.473282E-004	-7.442855E-006	-5.198580E-001	-2.626008E-001
572	4	-1.096665E-004	-7.591652E-006	-3.869670E-001	-2.678813E-001
572	5	-1.298648E-004	-2.455495E-005	-4.554178E-001	-8.664243E-001
572	6	-1.473284E-004	-1.571255E-005	-5.198577E-001	-5.544258E-001
572	7	-1.298648E-004	-7.514723E-006	-4.554178E-001	-2.651584E-001
572	8	-1.096670E-004	-1.637626E-005	-3.869680E-001	-5.778521E-001
572	9	-1.298648E-004	-1.603460E-005	-4.554178E-001	-5.657940E-001
573	1	-9.649982E-005	-2.131090E-005	-3.405072E-001	-7.519719E-001
573	2	-1.029275E-004	-2.110578E-005	-3.631888E-001	-7.447332E-001
573	3	-1.029274E-004	-1.851338E-005	-3.631863E-001	-6.532522E-001
573	4	-9.649987E-005	-1.853914E-005	-3.405092E-001	-6.541821E-001

573	5	-9.982137E-005	-2.120470E-005	-3.522280E-001	-7.482339E-001
573	6	-1.029277E-004	-1.980975E-005	-3.631875E-001	-6.990063E-001
573	7	-9.982148E-005	-1.852600E-005	-3.522262E-001	-6.537020E-001
573	8	-9.649935E-005	-1.992522E-005	-3.405049E-001	-7.030739E-001
573	9	-9.982062E-005	-1.986560E-005	-3.522269E-001	-7.009756E-001
574	1	-6.804319E-005	-8.576865E-006	-2.118644E-001	-3.026422E-001
574	2	-6.351223E-005	-8.345296E-006	-2.240982E-001	-2.944767E-001
574	3	-6.351254E-005	-7.941934E-006	-2.241061E-001	-2.802455E-001
574	4	-6.803883E-005	-8.079830E-006	-2.118572E-001	-2.851075E-001
574	5	-6.196024E-005	-8.448881E-006	-2.186265E-001	-2.981285E-001
574	6	-6.350992E-005	-8.144068E-006	-2.240984E-001	-2.873629E-001
574	7	-6.196024E-005	-8.004115E-006	-2.186265E-001	-2.824203E-001
574	8	-6.804622E-005	-8.328426E-006	-2.118707E-001	-2.938789E-001
574	9	-6.196024E-005	-8.226360E-006	-2.186265E-001	-2.902735E-001
575	1	-9.146882E-005	-2.104968E-005	-3.227528E-001	-7.427481E-001
575	2	-9.501496E-005	-2.093778E-005	-3.352659E-001	-7.387990E-001
575	3	-9.501502E-005	-1.964416E-005	-3.352669E-001	-6.931613E-001
575	4	-9.146887E-005	-1.965857E-005	-3.227547E-001	-6.936622E-001
575	5	-9.330739E-005	-2.099170E-005	-3.292430E-001	-7.406947E-001
575	6	-9.501460E-005	-2.029078E-005	-3.352685E-001	-7.159761E-001
575	7	-9.330739E-005	-1.965885E-005	-3.292438E-001	-6.934075E-001
575	8	-9.146885E-005	-2.035418E-005	-3.227575E-001	-7.182105E-001
575	9	-9.330739E-005	-2.032135E-005	-3.292430E-001	-7.170472E-001
576	1	-8.891203E-005	-2.024039E-005	-3.137312E-001	-7.141956E-001
576	2	-9.067494E-005	-2.018416E-005	-3.199496E-001	-7.122043E-001
576	3	-9.067354E-005	-1.959984E-005	-3.199487E-001	-6.915969E-001
576	4	-8.891182E-005	-1.960749E-005	-3.137360E-001	-6.918659E-001
576	5	-8.982791E-005	-2.021153E-005	-3.169666E-001	-7.131811E-001
576	6	-9.067347E-005	-1.989204E-005	-3.199475E-001	-7.019888E-001
576	7	-8.982822E-005	-1.960360E-005	-3.169649E-001	-6.917315E-001
576	8	-8.891147E-005	-1.992395E-005	-3.137370E-001	-7.030250E-001
576	9	-8.982798E-005	-1.990723E-005	-3.169662E-001	-7.024498E-001
577	1	-8.291296E-005	-1.913443E-005	-2.925668E-001	-6.751684E-001
577	2	-8.796640E-005	-1.897626E-005	-3.103950E-001	-6.695997E-001
577	3	-8.796659E-005	-1.748056E-005	-3.103960E-001	-6.168123E-001
577	4	-8.291304E-005	-1.750869E-005	-2.925674E-001	-6.175328E-001
577	5	-8.555185E-005	-1.905153E-005	-3.018702E-001	-6.722520E-001
577	6	-8.796619E-005	-1.822841E-005	-3.103950E-001	-6.432011E-001
577	7	-8.555169E-005	-1.748971E-005	-3.018770E-001	-6.171398E-001
577	8	-8.291459E-005	-1.831734E-005	-2.925676E-001	-6.463456E-001
577	9	-8.555120E-005	-1.827095E-005	-3.018747E-001	-6.447021E-001
578	1	-5.833895E-005	-3.348264E-006	-2.058448E-001	-1.181610E-001
578	2	-5.930051E-005	-3.283895E-006	-2.092452E-001	-1.158845E-001
578	3	-5.929716E-005	-3.205967E-006	-2.092427E-001	-1.131328E-001
578	4	-5.833978E-005	-3.244499E-006	-2.058327E-001	-1.144911E-001
578	5	-5.888800E-005	-3.311899E-006	-2.077839E-001	-1.168658E-001
578	6	-5.929791E-005	-3.245259E-006	-2.092454E-001	-1.145030E-001
578	7	-5.888613E-005	-3.222307E-006	-2.077824E-001	-1.137036E-001
578	8	-5.833895E-005	-3.297885E-006	-2.058449E-001	-1.163323E-001
578	9	-5.888762E-005	-3.267149E-006	-2.077824E-001	-1.152866E-001
579	1	-8.848453E-005	-1.794719E-005	-2.839882E-001	-6.332908E-001
579	2	-8.191406E-005	-1.790205E-005	-2.898399E-001	-6.316858E-001
579	3	-8.191440E-005	-1.753197E-005	-2.898413E-001	-6.186324E-001
579	4	-8.848292E-005	-1.753752E-005	-2.839881E-001	-6.188298E-001
579	5	-8.123455E-005	-1.792323E-005	-2.866426E-001	-6.324243E-001
579	6	-8.191347E-005	-1.771685E-005	-2.898413E-001	-6.251513E-001
579	7	-8.123455E-005	-1.753472E-005	-2.866426E-001	-6.187285E-001
579	8	-8.848205E-005	-1.774235E-005	-2.839885E-001	-6.260520E-001
579	9	-8.123455E-005	-1.772980E-005	-2.866426E-001	-6.255832E-001
580	1	-7.758084E-005	-1.641155E-005	-2.737441E-001	-5.790868E-001

580	2	-7.994462E-005	-1.633543E-005	-2.820949E-001	-5.764170E-001
580	3	-7.994651E-005	-1.580474E-005	-2.820997E-001	-5.576776E-001
580	4	-7.758025E-005	-1.581421E-005	-2.737387E-001	-5.580353E-001
580	5	-7.883227E-005	-1.637100E-005	-2.781596E-001	-5.776724E-001
580	6	-7.994786E-005	-1.607030E-005	-2.821019E-001	-5.670505E-001
580	7	-7.883060E-005	-1.580915E-005	-2.781620E-001	-5.578384E-001
580	8	-7.757888E-005	-1.611298E-005	-2.737490E-001	-5.685524E-001
580	9	-7.883050E-005	-1.609026E-005	-2.781622E-001	-5.677614E-001
581	1	-7.401698E-005	-1.424348E-005	-2.611723E-001	-5.025770E-001
581	2	-7.683105E-005	-1.415329E-005	-2.711095E-001	-4.993978E-001
581	3	-7.683218E-005	-1.362256E-005	-2.711118E-001	-4.806813E-001
581	4	-7.401302E-005	-1.363381E-005	-2.611667E-001	-4.810767E-001
581	5	-7.551999E-005	-1.419529E-005	-2.664843E-001	-5.008761E-001
581	6	-7.683386E-005	-1.388786E-005	-2.711172E-001	-4.900449E-001
581	7	-7.551999E-005	-1.362817E-005	-2.664843E-001	-4.808696E-001
581	8	-7.401258E-005	-1.393879E-005	-2.611665E-001	-4.918351E-001
581	9	-7.551999E-005	-1.391155E-005	-2.664843E-001	-4.908704E-001
582	1	-6.974802E-005	-1.142878E-005	-2.460812E-001	-4.032763E-001
582	2	-7.312468E-005	-1.132244E-005	-2.580276E-001	-3.995317E-001
582	3	-7.312573E-005	-1.080508E-005	-2.580282E-001	-3.812731E-001
582	4	-6.973802E-005	-1.081839E-005	-2.460807E-001	-3.817403E-001
582	5	-7.157133E-005	-1.137124E-005	-2.525433E-001	-4.012389E-001
582	6	-7.312416E-005	-1.106399E-005	-2.580179E-001	-3.903974E-001
582	7	-7.157156E-005	-1.081127E-005	-2.525382E-001	-3.814834E-001
582	8	-6.973735E-005	-1.112364E-005	-2.460779E-001	-3.925845E-001
582	9	-7.156977E-005	-1.109111E-005	-2.525408E-001	-3.913652E-001
583	1	-6.532171E-005	-7.747979E-006	-2.384891E-001	-2.733868E-001
583	2	-6.874981E-005	-7.639002E-006	-2.425888E-001	-2.695487E-001
583	3	-6.875055E-005	-7.240124E-006	-2.425842E-001	-2.554720E-001
583	4	-6.531720E-005	-7.253778E-006	-2.384737E-001	-2.559556E-001
583	5	-6.721536E-005	-7.687325E-006	-2.371800E-001	-2.712645E-001
583	6	-6.874731E-005	-7.439822E-006	-2.425828E-001	-2.625064E-001
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583	8	-6.531423E-005	-7.500886E-006	-2.384829E-001	-2.646656E-001
583	9	-6.721536E-005	-7.466729E-006	-2.371800E-001	-2.634737E-001
584	1	-6.274181E-005	-3.843380E-006	-2.214011E-001	-1.073835E-001
584	2	-6.449586E-005	-2.987243E-006	-2.275795E-001	-1.054044E-001
584	3	-6.449314E-005	-2.845386E-006	-2.275652E-001	-1.004073E-001
584	4	-6.273981E-005	-2.852955E-006	-2.213897E-001	-1.006587E-001
584	5	-6.375027E-005	-3.011195E-006	-2.249359E-001	-1.062587E-001
584	6	-6.449277E-005	-2.916414E-006	-2.275786E-001	-1.029894E-001
584	7	-6.374815E-005	-2.840456E-006	-2.249335E-001	-1.005114E-001
584	8	-6.273895E-005	-2.947724E-006	-2.214015E-001	-1.040172E-001
584	9	-6.374865E-005	-2.929715E-006	-2.249355E-001	-1.033858E-001
585	1	-6.680432E-005	-2.783343E-006	-2.357166E-001	-9.821470E-002
585	2	-6.940812E-005	-2.794394E-006	-2.449974E-001	-9.858888E-002
585	3	-6.940791E-005	-2.582998E-006	-2.449204E-001	-9.114201E-002
585	4	-6.680183E-005	-2.499882E-006	-2.357214E-001	-8.821040E-002
585	5	-6.829673E-005	-2.789753E-006	-2.409983E-001	-9.843499E-002
585	6	-6.940792E-005	-2.688749E-006	-2.449859E-001	-9.487285E-002
585	7	-6.829732E-005	-2.547598E-006	-2.409858E-001	-8.989886E-002
585	8	-6.680458E-005	-2.641787E-006	-2.357175E-001	-9.321979E-002
585	9	-6.829795E-005	-2.668532E-006	-2.409806E-001	-9.416657E-002
586	1	-7.036658E-005	-7.105128E-006	-2.482896E-001	-2.507152E-001
586	2	-7.404379E-005	-7.120378E-006	-2.612696E-001	-2.512420E-001
586	3	-7.404737E-005	-6.692691E-006	-2.612720E-001	-2.361503E-001
586	4	-7.036935E-005	-6.575870E-006	-2.482888E-001	-2.320341E-001
586	5	-7.240137E-005	-7.113180E-006	-2.554791E-001	-2.509984E-001
586	6	-7.404772E-005	-6.906329E-006	-2.612784E-001	-2.436942E-001
586	7	-7.240137E-005	-6.640153E-006	-2.554791E-001	-2.343035E-001

586	8	-7.936574E-005	-6.840673E-006	-2.482877E-001	-2.413697E-001
586	9	-7.240137E-005	-6.876780E-006	-2.554791E-001	-2.426543E-001
587	1	-7.506042E-005	-1.064133E-005	-2.648504E-001	-3.754912E-001
587	2	-7.843693E-005	-1.065434E-005	-2.767739E-001	-3.759647E-001
587	3	-7.843604E-005	-1.013868E-005	-2.767732E-001	-3.577543E-001
587	4	-7.506021E-005	-1.003313E-005	-2.648590E-001	-3.540285E-001
587	5	-7.688849E-005	-1.064856E-005	-2.713021E-001	-3.757518E-001
587	6	-7.843532E-005	-1.039673E-005	-2.767636E-001	-3.668541E-001
587	7	-7.688810E-005	-1.009823E-005	-2.713057E-001	-3.560512E-001
587	8	-7.506162E-005	-1.033725E-005	-2.648633E-001	-3.647510E-001
587	9	-7.688615E-005	-1.036930E-005	-2.713001E-001	-3.658848E-001
588	1	-7.925178E-005	-1.347032E-005	-2.796564E-001	-4.753092E-001
588	2	-8.164320E-005	-1.347984E-005	-2.880823E-001	-4.756470E-001
588	3	-8.164216E-005	-1.302935E-005	-2.880837E-001	-4.597545E-001
588	4	-7.924918E-005	-1.295358E-005	-2.796412E-001	-4.570834E-001
588	5	-8.052843E-005	-1.347531E-005	-2.841566E-001	-4.754830E-001
588	6	-8.163993E-005	-1.325504E-005	-2.880764E-001	-4.677091E-001
588	7	-8.052843E-005	-1.299448E-005	-2.841566E-001	-4.585295E-001
588	8	-7.925216E-005	-1.321172E-005	-2.796489E-001	-4.661913E-001
588	9	-8.052843E-005	-1.323490E-005	-2.841566E-001	-4.670016E-001
589	1	-8.229393E-005	-1.564976E-005	-2.903819E-001	-5.522152E-001
589	2	-8.441303E-005	-1.565872E-005	-2.978606E-001	-5.525190E-001
589	3	-8.441145E-005	-1.518269E-005	-2.978566E-001	-5.357329E-001
589	4	-8.229051E-005	-1.511535E-005	-2.903749E-001	-5.333646E-001
589	5	-8.341367E-005	-1.565464E-005	-2.943350E-001	-5.523793E-001
589	6	-8.441496E-005	-1.542071E-005	-2.978622E-001	-5.441331E-001
589	7	-8.341426E-005	-1.515145E-005	-2.943354E-001	-5.346305E-001
589	8	-8.229240E-005	-1.538262E-005	-2.903734E-001	-5.427831E-001
589	9	-8.341434E-005	-1.540273E-005	-2.943361E-001	-5.434959E-001
590	1	-8.489155E-005	-1.742469E-005	-2.995534E-001	-6.148372E-001
590	2	-8.618156E-005	-1.742984E-005	-3.041046E-001	-6.150351E-001
590	3	-8.618345E-005	-1.709648E-005	-3.041028E-001	-6.032622E-001
590	4	-8.489298E-005	-1.705605E-005	-2.995561E-001	-6.018365E-001
590	5	-8.557142E-005	-1.742693E-005	-3.019446E-001	-6.149287E-001
590	6	-8.618311E-005	-1.726328E-005	-3.041018E-001	-6.091429E-001
590	7	-8.557142E-005	-1.707751E-005	-3.019446E-001	-6.025898E-001
590	8	-8.489413E-005	-1.724005E-005	-2.995525E-001	-6.083308E-001
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591	1	-7.059128E-005	-2.539357E-006	-2.490915E-001	-8.961431E-002
591	2	-7.409983E-005	-2.679631E-006	-2.614670E-001	-9.456374E-002
591	3	-7.409987E-005	-2.395630E-006	-2.614658E-001	-8.452527E-002
591	4	-7.058979E-005	-2.157715E-006	-2.490819E-001	-7.613435E-002
591	5	-7.259933E-005	-2.620155E-006	-2.561662E-001	-9.245421E-002
591	6	-7.409981E-005	-2.537336E-006	-2.614671E-001	-8.952715E-002
591	7	-7.260107E-005	-2.293774E-006	-2.561846E-001	-8.094910E-002
591	8	-7.058867E-005	-2.347982E-006	-2.490775E-001	-8.286674E-002
591	9	-7.260265E-005	-2.456941E-006	-2.561876E-001	-8.669356E-002
592	1	-8.521764E-005	-1.759299E-005	-3.007053E-001	-6.207941E-001
592	2	-7.819336E-005	-1.756551E-005	-2.759132E-001	-6.198114E-001
592	3	-7.819349E-005	-1.964572E-005	-2.759109E-001	-6.932139E-001
592	4	-8.521791E-005	-1.986524E-005	-3.007028E-001	-7.009752E-001
592	5	-8.155159E-005	-1.757856E-005	-2.877627E-001	-6.202734E-001
592	6	-7.819344E-005	-1.860522E-005	-2.759137E-001	-6.565133E-001
592	7	-8.155206E-005	-1.975012E-005	-2.877604E-001	-6.969107E-001
592	8	-8.521898E-005	-1.872902E-005	-3.007017E-001	-6.608836E-001
592	9	-8.155159E-005	-1.866471E-005	-2.877595E-001	-6.585979E-001
593	1	-8.228493E-005	-1.787307E-005	-2.903488E-001	-6.306714E-001
593	2	-1.136999E-004	-1.800053E-005	-4.011996E-001	-6.351623E-001
593	3	-1.137085E-004	-7.589677E-006	-4.011990E-001	-2.678015E-001
593	4	-8.228634E-005	-6.587340E-006	-2.903529E-001	-2.324314E-001

593	5	-9.862641E-005	-1.793978E-005	-3.480114E-001	-6.330197E-001
593	6	-1.137002E-004	-1.279512E-005	-4.012012E-001	-4.514817E-001
593	7	-9.862675E-005	-7.108508E-006	-3.480124E-001	-2.508328E-001
593	8	-8.228497E-005	-1.223018E-005	-2.903504E-001	-4.315551E-001
593	9	-9.862574E-005	-1.252393E-005	-3.480104E-001	-4.419215E-001
594	1	-1.144271E-004	-2.069785E-005	-4.037622E-001	-7.303391E-001
594	2	-9.267357E-005	-2.061016E-005	-3.270062E-001	-7.272518E-001
594	3	-9.267359E-005	-2.854409E-005	-3.270076E-001	-1.007207E+000
594	4	-1.144266E-004	-2.923338E-005	-4.037654E-001	-1.031539E+000
594	5	-1.031527E-004	-2.065245E-005	-3.639834E-001	-7.287312E-001
594	6	-9.267489E-005	-2.457723E-005	-3.270125E-001	-8.672293E-001
594	7	-1.031527E-004	-2.887657E-005	-3.639834E-001	-1.018922E+000
594	8	-1.144263E-004	-2.496582E-005	-4.037596E-001	-8.809405E-001
594	9	-1.031527E-004	-2.476439E-005	-3.639834E-001	-8.738354E-001
595	1	-7.522354E-005	-6.587072E-006	-2.654290E-001	-2.324254E-001
595	2	-7.931372E-005	-6.749347E-006	-2.798611E-001	-2.381516E-001
595	3	-7.931417E-005	-6.274659E-006	-2.798555E-001	-2.214090E-001
595	4	-7.522241E-005	-6.001543E-006	-2.654276E-001	-2.117785E-001
595	5	-7.748190E-005	-6.676625E-006	-2.734010E-001	-2.355899E-001
595	6	-7.931313E-005	-6.512120E-006	-2.798622E-001	-2.297842E-001
595	7	-7.748198E-005	-6.152534E-006	-2.734010E-001	-2.170876E-001
595	8	-7.522334E-005	-6.294341E-006	-2.654298E-001	-2.221046E-001
595	9	-7.748190E-005	-6.414534E-006	-2.734018E-001	-2.263460E-001
596	1	-8.707212E-005	-1.921023E-005	-3.072481E-001	-6.778477E-001
596	2	-6.996137E-005	-1.914064E-005	-2.468621E-001	-6.753897E-001
596	3	-6.996134E-005	-2.604225E-005	-2.468635E-001	-9.189208E-001
596	4	-8.707277E-005	-2.658893E-005	-3.072455E-001	-9.382082E-001
596	5	-7.823192E-005	-1.917461E-005	-2.760484E-001	-6.765848E-001
596	6	-6.996101E-005	-2.259165E-005	-2.468647E-001	-7.971655E-001
596	7	-7.823233E-005	-2.630673E-005	-2.760495E-001	-9.282513E-001
596	8	-8.707347E-005	-2.289932E-005	-3.072443E-001	-8.080254E-001
596	9	-7.823241E-005	-2.274036E-005	-2.760480E-001	-8.024153E-001
597	1	-6.164215E-005	-7.651836E-006	-2.175056E-001	-2.699985E-001
597	2	-2.309011E-005	-7.498615E-006	-8.147429E-002	-2.645887E-001
597	3	-8.164927E-004	-8.639364E-004	-8.147377E-002	-8.621021E-001
597	4	-2.266323E-004	-9.426069E-005	-2.175087E-001	-9.846578E-001
597	5	-4.170481E-005	-7.573175E-006	-1.474407E-001	-2.672237E-001
597	6	-2.308988E-005	-1.596493E-005	-8.147451E-002	-5.633482E-001
597	7	-8.133447E-004	-4.869433E-004	-1.474407E-001	-8.827317E-001
597	8	-6.164196E-005	-1.664463E-005	-2.175057E-001	-5.873277E-001
597	9	-4.170481E-005	-1.629471E-005	-1.474407E-001	-5.749791E-001
598	1	-7.415291E-005	-2.288396E-006	-2.616524E-001	-8.073378E-002
598	2	-7.859553E-005	-2.625778E-006	-2.773278E-001	-9.265342E-002
598	3	-7.858869E-005	-2.265071E-006	-2.773270E-001	-7.993756E-002
598	4	-7.415097E-005	-1.804039E-006	-2.616439E-001	-6.365386E-002
598	5	-7.669807E-005	-2.481386E-006	-2.706317E-001	-8.755743E-002
598	6	-7.859560E-005	-2.445178E-006	-2.773274E-001	-8.628142E-002
598	7	-7.669844E-005	-2.068344E-006	-2.706476E-001	-7.298703E-002
598	8	-7.415045E-005	-2.045787E-006	-2.616420E-001	-7.218570E-002
598	9	-7.670087E-005	-2.274693E-006	-2.706359E-001	-8.026001E-002
599	1	-2.097391E-005	-3.979630E-005	-7.400826E-002	-1.404234E+000
599	2	-4.106410E-005	-3.987780E-005	-1.448993E-001	-1.407107E+000
599	3	-2.315840E-003	-1.711255E-003	-1.448989E-001	-1.070705E+000
599	4	-1.571779E-003	-2.225839E-003	-7.400799E-002	-1.048883E+000
599	5	-3.130591E-005	-3.983824E-005	-1.104621E-001	-1.405718E+000
599	6	-1.104396E-004	-1.012698E-004	-1.448957E-001	-1.230911E+000
599	7	-2.281565E-003	-2.188806E-003	-1.104623E-001	-1.059707E+000
599	8	-2.909351E-005	-4.820005E-005	-7.401003E-002	-1.226157E+000
599	9	-3.130465E-005	-3.493517E-005	-1.104624E-001	-1.232717E+000
600	1	-8.041522E-005	-1.003915E-005	-2.837513E-001	-3.542451E-001

600	2	-8.398436E-005	-1.017982E-005	-2.963409E-001	-3.591976E-001
600	3	-8.398476E-005	-9.636844E-006	-2.963471E-001	-3.400394E-001
600	4	-8.041602E-005	-9.394989E-006	-2.837515E-001	-3.314877E-001
600	5	-8.235127E-005	-1.011605E-005	-2.905045E-001	-3.569464E-001
600	6	-8.398200E-005	-9.988047E-006	-2.963378E-001	-3.496203E-001
600	7	-8.235307E-005	-9.525979E-006	-2.905047E-001	-3.361278E-001
600	8	-8.041284E-005	-9.716953E-006	-2.837491E-001	-3.428737E-001
600	9	-8.235245E-005	-9.820716E-006	-2.905061E-001	-3.465342E-001
601	1	-3.850420E-005	-8.272791E-006	-1.358665E-001	-2.919209E-001
601	2	-2.273008E-004	-4.345844E-004	-1.501397E-002	-2.870557E-001
601	3	-4.465204E-004	-2.675491E-003	-1.501346E-002	-8.996410E-001
601	4	-2.845193E-003	-1.964135E-003	-1.358701E-001	-9.379367E-001
601	5	-2.215409E-005	-8.683964E-006	-7.383772E-002	-2.894194E-001
601	6	-4.495611E-004	-1.776527E-003	-1.501488E-002	-5.933358E-001
601	7	-2.198193E-003	-2.733839E-003	-7.383772E-002	-9.182764E-001
601	8	-1.110575E-004	-5.026497E-005	-1.358674E-001	-6.149228E-001
601	9	-1.311779E-004	-1.072793E-004	-7.383772E-002	-6.838429E-001
602	1	-3.851106E-002	-3.871806E-004	-1.358933E-001	-1.365926E-002
602	2	-3.853510E-002	-3.871144E-004	-1.359784E-001	-1.365827E-002
602	3	-3.853566E-002	-3.827861E-004	-1.359805E-001	-1.350826E-002
602	4	-3.851142E-002	-3.827722E-004	-1.358934E-001	-1.350989E-002
602	5	-3.852284E-002	-3.871112E-004	-1.359376E-001	-1.365789E-002
602	6	-3.853566E-002	-3.850491E-004	-1.359805E-001	-1.358427E-002
602	7	-3.852284E-002	-3.828494E-004	-1.359376E-001	-1.351837E-002
602	8	-3.851108E-002	-3.849454E-004	-1.358933E-001	-1.358426E-002
602	9	-3.852284E-002	-3.849674E-004	-1.359376E-001	-1.358427E-002
603	1	-3.842922E-002	-1.154803E-003	-1.356056E-001	-4.075051E-002
603	2	-3.849742E-002	-1.154982E-003	-1.358462E-001	-4.075189E-002
603	3	-3.849738E-002	-1.142817E-003	-1.358456E-001	-4.032349E-002
603	4	-3.842913E-002	-1.142822E-003	-1.356058E-001	-4.032364E-002
603	5	-3.846337E-002	-1.154794E-003	-1.357249E-001	-4.074826E-002
603	6	-3.849773E-002	-1.148818E-003	-1.358466E-001	-4.053885E-002
603	7	-3.846321E-002	-1.142860E-003	-1.357269E-001	-4.032868E-002
603	8	-3.842926E-002	-1.148818E-003	-1.356063E-001	-4.053885E-002
603	9	-3.846325E-002	-1.148818E-003	-1.357244E-001	-4.053885E-002
604	1	-3.829787E-002	-1.905615E-003	-1.351441E-001	-6.724369E-002
604	2	-3.840336E-002	-1.905581E-003	-1.355160E-001	-6.724508E-002
604	3	-3.840396E-002	-1.887050E-003	-1.355161E-001	-6.658767E-002
604	4	-3.829823E-002	-1.887055E-003	-1.351442E-001	-6.658784E-002
604	5	-3.835133E-002	-1.905606E-003	-1.353301E-001	-6.724145E-002
604	6	-3.840375E-002	-1.896315E-003	-1.355154E-001	-6.691635E-002
604	7	-3.835045E-002	-1.887153E-003	-1.353282E-001	-6.658905E-002
604	8	-3.829836E-002	-1.896315E-003	-1.351442E-001	-6.691635E-002
604	9	-3.835097E-002	-1.896315E-003	-1.353296E-001	-6.691635E-002
605	1	-3.812758E-002	-2.628999E-003	-1.345407E-001	-9.276997E-002
605	2	-3.826287E-002	-2.628936E-003	-1.350192E-001	-9.276673E-002
605	3	-3.826321E-002	-2.605097E-003	-1.350197E-001	-9.192879E-002
605	4	-3.812749E-002	-2.605179E-003	-1.345409E-001	-9.192750E-002
605	5	-3.819525E-002	-2.628930E-003	-1.347810E-001	-9.276525E-002
605	6	-3.826329E-002	-2.617067E-003	-1.350195E-001	-9.234806E-002
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605	8	-3.812825E-002	-2.617120E-003	-1.345415E-001	-9.234843E-002
605	9	-3.819564E-002	-2.617014E-003	-1.347818E-001	-9.234760E-002
606	1	-3.793714E-002	-3.315324E-003	-1.338705E-001	-1.169875E-001
606	2	-3.808589E-002	-3.315286E-003	-1.343956E-001	-1.169861E-001
606	3	-3.808625E-002	-3.289101E-003	-1.343950E-001	-1.160620E-001
606	4	-3.793769E-002	-3.289101E-003	-1.338714E-001	-1.160620E-001
606	5	-3.801211E-002	-3.315399E-003	-1.341319E-001	-1.169897E-001
606	6	-3.808692E-002	-3.302174E-003	-1.343960E-001	-1.165246E-001
606	7	-3.801110E-002	-3.289101E-003	-1.341315E-001	-1.160620E-001

606	8	-3.793702E-002	-3.302174E-003	-1.338681E-001	-1.165246E-001
606	9	-3.801169E-002	-3.302174E-003	-1.341318E-001	-1.165246E-001
607	1	-3.774271E-002	-3.956391E-003	-1.331843E-001	-1.396898E-001
607	2	-3.789322E-002	-3.956370E-003	-1.337145E-001	-1.396881E-001
607	3	-3.789314E-002	-3.929995E-003	-1.337150E-001	-1.386774E-001
607	4	-3.774319E-002	-3.929969E-003	-1.331874E-001	-1.386769E-001
607	5	-3.781043E-002	-3.956416E-003	-1.334505E-001	-1.396120E-001
607	6	-3.789367E-002	-3.943116E-003	-1.337147E-001	-1.391436E-001
607	7	-3.781043E-002	-3.929934E-003	-1.334585E-001	-1.386734E-001
607	8	-3.774247E-002	-3.943163E-003	-1.331839E-001	-1.391425E-001
607	9	-3.781043E-002	-3.943183E-003	-1.334505E-001	-1.391422E-001
608	1	-3.756436E-002	-4.545005E-003	-1.325564E-001	-1.603807E-001
608	2	-3.770179E-002	-4.545023E-003	-1.330378E-001	-1.603831E-001
608	3	-3.770227E-002	-4.521105E-003	-1.330374E-001	-1.595354E-001
608	4	-3.756482E-002	-4.521046E-003	-1.325551E-001	-1.595354E-001
608	5	-3.763314E-002	-4.545040E-003	-1.327956E-001	-1.603812E-001
608	6	-3.770147E-002	-4.533030E-003	-1.330383E-001	-1.599598E-001
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609	1	-3.741462E-002	-5.077013E-003	-1.320248E-001	-1.791547E-001
609	2	-3.752871E-002	-5.077006E-003	-1.324255E-001	-1.791522E-001
609	3	-3.752846E-002	-5.056876E-003	-1.324284E-001	-1.784437E-001
609	4	-3.741458E-002	-5.056958E-003	-1.320256E-001	-1.784437E-001
609	5	-3.747174E-002	-5.077004E-003	-1.322256E-001	-1.791539E-001
609	6	-3.752797E-002	-5.066954E-003	-1.324253E-001	-1.787979E-001
609	7	-3.747174E-002	-5.056907E-003	-1.322256E-001	-1.784453E-001
609	8	-3.741439E-002	-5.067012E-003	-1.320252E-001	-1.787992E-001
609	9	-3.747174E-002	-5.067017E-003	-1.322256E-001	-1.787978E-001
610	1	-3.730238E-002	-5.548835E-003	-1.316323E-001	-1.957991E-001
610	2	-3.738611E-002	-5.548704E-003	-1.319243E-001	-1.957995E-001
610	3	-3.738593E-002	-5.534101E-003	-1.319244E-001	-1.952834E-001
610	4	-3.730269E-002	-5.534200E-003	-1.316324E-001	-1.952847E-001
610	5	-3.734468E-002	-5.548724E-003	-1.317782E-001	-1.957987E-001
610	6	-3.738584E-002	-5.541429E-003	-1.319244E-001	-1.955425E-001
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610	8	-3.730325E-002	-5.541404E-003	-1.316295E-001	-1.955414E-001
610	9	-3.734478E-002	-5.541431E-003	-1.317785E-001	-1.955412E-001
611	1	-3.722954E-002	-5.960180E-003	-1.313736E-001	-2.103162E-001
611	2	-3.728308E-002	-5.960088E-003	-1.315608E-001	-2.103167E-001
611	3	-3.728279E-002	-5.950908E-003	-1.315597E-001	-2.099853E-001
611	4	-3.722954E-002	-5.950836E-003	-1.313724E-001	-2.099807E-001
611	5	-3.725616E-002	-5.960076E-003	-1.314665E-001	-2.103143E-001
611	6	-3.728210E-002	-5.955462E-003	-1.315604E-001	-2.101511E-001
611	7	-3.725625E-002	-5.950001E-003	-1.314663E-001	-2.099838E-001
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612	1	-3.718834E-002	-6.314939E-003	-1.312258E-001	-2.228345E-001
612	2	-3.721699E-002	-6.314922E-003	-1.313287E-001	-2.228359E-001
612	3	-3.721770E-002	-6.309744E-003	-1.313309E-001	-2.226527E-001
612	4	-3.718832E-002	-6.309785E-003	-1.312271E-001	-2.226533E-001
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612	7	-3.720336E-002	-6.309764E-003	-1.312790E-001	-2.226526E-001
612	8	-3.718890E-002	-6.312416E-003	-1.312281E-001	-2.227457E-001
612	9	-3.720338E-002	-6.312334E-003	-1.312792E-001	-2.227452E-001
613	1	-3.716371E-002	-6.624507E-003	-1.311406E-001	-2.337606E-001
613	2	-3.718194E-002	-6.624507E-003	-1.312048E-001	-2.337580E-001
613	3	-3.718222E-002	-6.621415E-003	-1.312038E-001	-2.336501E-001
613	4	-3.716359E-002	-6.621301E-003	-1.311398E-001	-2.336469E-001

613	5	-3.717266E-002	-6.624497E-003	-1.311716E-001	-2.337583E-001
613	6	-3.710151E-002	-6.622881E-003	-1.312030E-001	-2.337031E-001
613	7	-3.717266E-002	-6.621400E-003	-1.311716E-001	-2.336498E-001
613	8	-3.716283E-002	-6.622923E-003	-1.311417E-001	-2.337050E-001
613	9	-3.717266E-002	-6.622978E-003	-1.311716E-001	-2.337043E-001
614	1	-3.717845E-002	-6.906154E-003	-1.311922E-001	-2.436966E-001
614	2	-3.716376E-002	-6.906191E-003	-1.311389E-001	-2.436958E-001
614	3	-3.716351E-002	-6.908693E-003	-1.311381E-001	-2.437087E-001
614	4	-3.717737E-002	-6.908794E-003	-1.311911E-001	-2.437882E-001
614	5	-3.717072E-002	-6.906154E-003	-1.311644E-001	-2.436987E-001
614	6	-3.716367E-002	-6.907371E-003	-1.311386E-001	-2.437405E-001
614	7	-3.717067E-002	-6.908803E-003	-1.311647E-001	-2.437904E-001
614	8	-3.717873E-002	-6.907371E-003	-1.311895E-001	-2.437405E-001
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615	1	-3.714784E-002	-7.217458E-003	-1.310835E-001	-2.546862E-001
615	2	-3.717693E-002	-7.217497E-003	-1.311851E-001	-2.546873E-001
615	3	-3.717626E-002	-7.212558E-003	-1.311848E-001	-2.545108E-001
615	4	-3.714811E-002	-7.212527E-003	-1.310851E-001	-2.545129E-001
615	5	-3.716265E-002	-7.217648E-003	-1.311362E-001	-2.546883E-001
615	6	-3.717660E-002	-7.215133E-003	-1.311858E-001	-2.545986E-001
615	7	-3.716181E-002	-7.212585E-003	-1.311342E-001	-2.545113E-001
615	8	-3.714832E-002	-7.215098E-003	-1.310848E-001	-2.545986E-001
615	9	-3.716247E-002	-7.215095E-003	-1.311360E-001	-2.545977E-001
616	1	-3.730329E-002	-7.554641E-003	-1.316312E-001	-2.665838E-001
616	2	-3.716329E-002	-7.554717E-003	-1.311406E-001	-2.665828E-001
616	3	-3.716461E-002	-7.579140E-003	-1.311415E-001	-2.674465E-001
616	4	-3.730419E-002	-7.579138E-003	-1.316315E-001	-2.674450E-001
616	5	-3.723349E-002	-7.554677E-003	-1.313866E-001	-2.665816E-001
616	6	-3.716421E-002	-7.566993E-003	-1.311417E-001	-2.670148E-001
616	7	-3.723349E-002	-7.579281E-003	-1.313866E-001	-2.674489E-001
616	8	-3.730350E-002	-7.566912E-003	-1.316320E-001	-2.670141E-001
616	9	-3.723349E-002	-7.566921E-003	-1.313866E-001	-2.670144E-001
617	1	-3.748408E-002	-7.955358E-003	-1.322697E-001	-2.807222E-001
617	2	-3.734483E-002	-7.955355E-003	-1.317768E-001	-2.807223E-001
617	3	-3.734374E-002	-7.979834E-003	-1.317766E-001	-2.815851E-001
617	4	-3.748382E-002	-7.979921E-003	-1.322705E-001	-2.815879E-001
617	5	-3.741410E-002	-7.955347E-003	-1.320231E-001	-2.807218E-001
617	6	-3.734361E-002	-7.967654E-003	-1.317767E-001	-2.811536E-001
617	7	-3.741388E-002	-7.979921E-003	-1.320229E-001	-2.815879E-001
617	8	-3.748382E-002	-7.967654E-003	-1.322711E-001	-2.811536E-001
617	9	-3.741412E-002	-7.967654E-003	-1.320231E-001	-2.811536E-001
618	1	-6.877498E-004	-6.723051E-005	-2.426882E-001	-2.372378E-001
618	2	-4.236992E-002	-6.874051E-003	-1.463425E-001	-2.374234E-001
618	3	-4.147239E-002	-1.151699E-002	-1.463426E-001	-4.063676E-001
618	4	-6.877595E-004	-1.151541E-004	-2.426888E-001	-4.063468E-001
618	5	-5.511738E-004	-6.725785E-005	-1.944935E-001	-2.373312E-001
618	6	-4.147279E-002	-9.122198E-003	-1.463450E-001	-3.218966E-001
618	7	-5.511738E-004	-1.151575E-004	-1.944935E-001	-4.063538E-001
618	8	-6.877463E-004	-9.115193E-005	-2.426878E-001	-3.217907E-001
618	9	-5.511738E-004	-9.120722E-005	-1.944935E-001	-3.218447E-001
619	1	-7.268211E-004	-3.687533E-004	-2.564715E-001	-1.301224E+000
619	2	-7.274352E-004	-3.687541E-004	-2.566907E-001	-1.301225E+000
619	3	-7.274351E-004	-3.686442E-004	-2.566908E-001	-1.300838E+000
619	4	-7.268119E-004	-3.686453E-004	-2.564725E-001	-1.300839E+000
619	5	-7.271299E-004	-3.687527E-004	-2.565816E-001	-1.301222E+000
619	6	-7.274299E-004	-3.686989E-004	-2.566894E-001	-1.301031E+000
619	7	-7.271299E-004	-3.686449E-004	-2.565816E-001	-1.300841E+000
619	8	-7.268174E-004	-3.686995E-004	-2.564730E-001	-1.301032E+000
619	9	-7.271299E-004	-3.686996E-004	-2.565816E-001	-1.301031E+000
620	1	-1.283360E-004	-1.818646E-003	-2.923818E-002	-2.328503E+000

620	2	-6.489489E-005	-6.599219E-005	-2.289830E-001	-2.328591E+000
620	3	-1.544000E-003	-8.340794E-004	-2.289828E-001	-1.236985E+000
620	4	-8.731059E-004	-3.503639E-003	-2.923742E-002	-1.173223E+000
620	5	-3.729381E-005	-6.588101E-005	-1.315961E-001	-2.324656E+000
620	6	-6.489405E-005	-5.052422E-005	-2.289840E-001	-1.782794E+000
620	7	-3.450972E-003	-3.162357E-003	-1.315933E-001	-1.205897E+000
620	8	-4.484280E-004	-2.918185E-003	-2.923780E-002	-1.746868E+000
620	9	-3.729386E-005	-5.002793E-005	-1.315942E-001	-1.765274E+000
621	1	-8.493980E-005	-1.299967E-005	-2.993658E-001	-4.587076E-001
621	2	-8.737187E-005	-1.318118E-005	-3.082996E-001	-4.622789E-001
621	3	-8.737404E-005	-1.262263E-005	-3.083084E-001	-4.454127E-001
621	4	-8.484266E-005	-1.245235E-005	-2.993645E-001	-4.393885E-001
621	5	-8.619345E-005	-1.305396E-005	-3.041402E-001	-4.686223E-001
621	6	-8.737408E-005	-1.286282E-005	-3.083074E-001	-4.538445E-001
621	7	-8.619345E-005	-1.254351E-005	-3.041402E-001	-4.426048E-001
621	8	-8.484198E-005	-1.272618E-005	-2.993724E-001	-4.490477E-001
621	9	-8.619345E-005	-1.279868E-005	-3.041402E-001	-4.516143E-001
622	1	-7.991338E-005	-6.152334E-006	-2.819652E-001	-2.178839E-001
622	2	-8.448097E-005	-6.494042E-006	-2.981064E-001	-2.291433E-001
622	3	-8.448157E-005	-5.962397E-006	-2.981026E-001	-2.104009E-001
622	4	-7.991200E-005	-5.494885E-006	-2.819785E-001	-1.938702E-001
622	5	-8.244161E-005	-6.341103E-006	-2.908946E-001	-2.237539E-001
622	6	-8.448226E-005	-6.228599E-006	-2.981010E-001	-2.197735E-001
622	7	-8.244161E-005	-5.753578E-006	-2.908946E-001	-2.030242E-001
622	8	-7.990929E-005	-5.823404E-006	-2.819657E-001	-2.054895E-001
622	9	-8.244161E-005	-6.047449E-006	-2.908946E-001	-2.133909E-001
623	1	-7.762449E-005	-2.826144E-006	-2.739862E-001	-7.148414E-002
623	2	-8.280679E-005	-2.686533E-006	-2.921929E-001	-9.196828E-002
623	3	-8.281058E-005	-2.182465E-006	-2.922058E-001	-7.701626E-002
623	4	-7.762357E-005	-1.461004E-006	-2.739016E-001	-5.154923E-002
623	5	-8.858817E-005	-2.358072E-006	-2.843587E-001	-8.320203E-002
623	6	-8.281031E-005	-2.394307E-006	-2.922065E-001	-8.449233E-002
623	7	-8.858787E-005	-1.873453E-006	-2.843567E-001	-6.618313E-002
623	8	-7.762217E-005	-1.743683E-006	-2.738963E-001	-6.150184E-002
623	9	-8.858855E-005	-2.115397E-006	-2.843608E-001	-7.465650E-002
624	1	-8.756602E-005	-1.525442E-005	-3.089798E-001	-5.382615E-001
624	2	-8.682186E-005	-1.522480E-005	-3.063597E-001	-5.372162E-001
624	3	-8.682204E-005	-1.539134E-005	-3.063577E-001	-5.430934E-001
624	4	-8.756234E-005	-1.544168E-005	-3.089807E-001	-5.448832E-001
624	5	-8.717110E-005	-1.523878E-005	-3.075906E-001	-5.377095E-001
624	6	-8.682178E-005	-1.538004E-005	-3.063529E-001	-5.401554E-001
624	7	-8.717132E-005	-1.541553E-005	-3.075878E-001	-5.439333E-001
624	8	-8.756568E-005	-1.534809E-005	-3.089814E-001	-5.415707E-001
624	9	-8.717084E-005	-1.532715E-005	-3.075873E-001	-5.408283E-001
625	1	-8.798167E-005	-1.679288E-005	-3.104585E-001	-5.925548E-001
625	2	-9.568054E-005	-1.709858E-005	-3.376145E-001	-6.033272E-001
625	3	-9.568084E-005	-1.511044E-005	-3.376164E-001	-5.331805E-001
625	4	-8.798374E-005	-1.459642E-005	-3.104562E-001	-5.150498E-001
625	5	-9.282304E-005	-1.695325E-005	-3.247099E-001	-5.982136E-001
625	6	-9.567976E-005	-1.610432E-005	-3.376119E-001	-5.682610E-001
625	7	-9.282304E-005	-1.486625E-005	-3.247099E-001	-5.245692E-001
625	8	-8.798224E-005	-1.569461E-005	-3.104501E-001	-5.538022E-001
625	9	-9.282304E-005	-1.590975E-005	-3.247099E-001	-5.613863E-001
626	1	-8.576084E-005	-9.572802E-006	-3.026146E-001	-3.377776E-001
626	2	-9.004126E-005	-9.898046E-006	-3.177174E-001	-3.492624E-001
626	3	-9.004289E-005	-9.243658E-006	-3.177168E-001	-3.261658E-001
626	4	-8.576201E-005	-8.801274E-006	-3.026114E-001	-3.105410E-001
626	5	-8.807465E-005	-9.748582E-006	-3.107879E-001	-3.439898E-001
626	6	-9.004389E-005	-9.578793E-006	-3.177280E-001	-3.377074E-001
626	7	-8.807681E-005	-9.848158E-006	-3.107902E-001	-3.189882E-001

626	8	-8.576235E-005	-9.187182E-006	-3.026138E-001	-3.241834E-001
626	9	-8.807694E-005	-9.394481E-006	-3.107826E-001	-3.314945E-001
627	1	-8.077575E-005	-1.725985E-006	-2.850448E-001	-6.090786E-002
627	2	-8.742001E-005	-2.702475E-006	-3.084695E-001	-9.538164E-002
627	3	-8.742401E-005	-2.165587E-006	-3.084845E-001	-7.641892E-002
627	4	-8.078113E-005	-1.808601E-006	-2.850354E-001	-3.557421E-002
627	5	-8.458147E-005	-2.285591E-006	-2.984533E-001	-8.064234E-002
627	6	-8.742057E-005	-2.434348E-006	-3.084704E-001	-8.589061E-002
627	7	-8.458121E-005	-1.670249E-006	-2.984455E-001	-5.893874E-002
627	8	-8.078030E-005	-1.366996E-006	-2.850477E-001	-4.820327E-002
627	9	-8.457687E-005	-1.977208E-006	-2.984425E-001	-6.977313E-002
628	1	-8.443084E-005	-5.759555E-006	-2.979182E-001	-2.032293E-001
628	2	-9.022270E-005	-6.398848E-006	-3.183599E-001	-2.257960E-001
628	3	-9.022596E-005	-5.726638E-006	-3.183681E-001	-2.028672E-001
628	4	-8.442933E-005	-4.930272E-006	-2.979307E-001	-1.739281E-001
628	5	-8.763424E-005	-6.112569E-006	-3.092148E-001	-2.156915E-001
628	6	-9.022715E-005	-6.062889E-006	-3.183677E-001	-2.139294E-001
628	7	-8.763424E-005	-5.370172E-006	-3.092148E-001	-1.894838E-001
628	8	-8.443718E-005	-5.344689E-006	-2.979383E-001	-1.885775E-001
628	9	-8.763424E-005	-5.741154E-006	-3.092148E-001	-2.025776E-001
629	1	-9.591776E-005	-2.079502E-005	-3.384570E-001	-7.337579E-001
629	2	-9.121088E-005	-2.060987E-005	-3.218431E-001	-7.272103E-001
629	3	-9.121011E-005	-2.280053E-005	-3.218489E-001	-7.763003E-001
629	4	-9.591787E-005	-2.232008E-005	-3.384514E-001	-7.875684E-001
629	5	-9.345608E-005	-2.069785E-005	-3.297665E-001	-7.303399E-001
629	6	-9.121001E-005	-2.130508E-005	-3.218441E-001	-7.517669E-001
629	7	-9.345549E-005	-2.215349E-005	-3.297695E-001	-7.816938E-001
629	8	-9.591920E-005	-2.155710E-005	-3.384576E-001	-7.606627E-001
629	9	-9.345621E-005	-2.142532E-005	-3.297678E-001	-7.560120E-001
630	1	-9.090833E-005	-1.274153E-005	-3.207494E-001	-4.496047E-001
630	2	-9.289827E-005	-1.289173E-005	-3.277968E-001	-4.549859E-001
630	3	-9.289895E-005	-1.251637E-005	-3.277989E-001	-4.416398E-001
630	4	-9.090270E-005	-1.231017E-005	-3.207546E-001	-4.343569E-001
630	5	-9.196816E-005	-1.282229E-005	-3.245149E-001	-4.524418E-001
630	6	-9.289509E-005	-1.270405E-005	-3.277900E-001	-4.482797E-001
630	7	-9.196816E-005	-1.241967E-005	-3.245149E-001	-4.382427E-001
630	8	-9.089988E-005	-1.252576E-005	-3.207490E-001	-4.419813E-001
630	9	-9.196816E-005	-1.262099E-005	-3.245149E-001	-4.453425E-001
631	1	-8.262572E-005	-7.570810E-006	-2.915545E-001	-2.671471E-001
631	2	-3.263398E-005	-5.574028E-006	-1.151511E-001	-1.966858E-001
631	3	-3.361348E-003	-2.283922E-003	-1.151500E-001	-7.823792E-001
631	4	-9.477074E-005	-2.928847E-005	-2.915500E-001	-9.010281E-001
631	5	-5.664209E-005	-6.533263E-006	-1.998673E-001	-2.305178E-001
631	6	-5.411006E-005	-2.300423E-005	-1.151487E-001	-4.895400E-001
631	7	-9.391869E-005	-3.944295E-005	-1.998684E-001	-8.393715E-001
631	8	-8.262489E-005	-1.655316E-005	-2.915488E-001	-5.840866E-001
631	9	-5.664253E-005	-1.516043E-005	-1.998652E-001	-5.349475E-001
632	1	-8.441672E-005	-1.461782E-006	-2.978778E-001	-5.156455E-002
632	2	-9.011439E-005	-2.500169E-006	-3.179798E-001	-8.824435E-002
632	3	-9.011896E-005	-2.038703E-006	-3.179648E-001	-7.196127E-002
632	4	-8.441195E-005	-8.409147E-007	-2.978571E-001	-2.967102E-002
632	5	-8.768243E-005	-2.857400E-006	-3.094018E-001	-7.260811E-002
632	6	-9.011439E-005	-2.269388E-006	-3.179789E-001	-8.009992E-002
632	7	-8.768519E-005	-1.528672E-006	-3.094067E-001	-5.391963E-002
632	8	-8.441770E-005	-1.151223E-006	-2.978812E-001	-4.059204E-002
632	9	-8.768660E-005	-1.792598E-006	-3.094043E-001	-6.326773E-002
633	1	-2.600243E-005	-2.731159E-005	-9.175605E-002	-9.637200E-001
633	2	-4.328686E-005	-4.529288E-005	-9.211139E-002	-9.638655E-001
633	3	-2.610449E-003	-2.727829E-003	-9.211218E-002	-9.625383E-001
633	4	-2.746754E-003	-2.880706E-003	-9.175552E-002	-9.622907E-001

633	5	-3.204729E-005	-3.359404E-005	-9.194088E-002	-9.637821E-001
633	6	-2.312133E-003	-2.417741E-003	-9.211378E-002	-9.631932E-001
633	7	-2.663653E-003	-2.788335E-003	-9.194088E-002	-9.624292E-001
633	8	-8.747228E-005	-9.180913E-005	-9.174966E-002	-9.629978E-001
633	9	-2.270502E-004	-2.378431E-004	-9.194088E-002	-9.630987E-001
634	1	-9.128637E-005	-9.222384E-006	-3.221163E-001	-3.254375E-001
634	2	-9.352208E-005	-9.471576E-006	-3.300012E-001	-3.342215E-001
634	3	-9.352285E-005	-9.131529E-006	-3.300011E-001	-3.222175E-001
634	4	-9.128869E-005	-8.818502E-006	-3.221191E-001	-3.111823E-001
634	5	-9.249980E-005	-9.357169E-006	-3.263966E-001	-3.301852E-001
634	6	-9.352207E-005	-9.301307E-006	-3.299982E-001	-3.282022E-001
634	7	-9.249968E-005	-8.988750E-006	-3.263925E-001	-3.171612E-001
634	8	-9.128921E-005	-9.021232E-006	-3.221139E-001	-3.183125E-001
634	9	-9.250056E-005	-9.172996E-006	-3.263957E-001	-3.236769E-001
635	1	-8.897804E-005	-5.355940E-006	-3.139537E-001	-1.889916E-001
635	2	-9.354436E-005	-6.021056E-006	-3.300754E-001	-2.124642E-001
635	3	-9.354519E-005	-5.492460E-006	-3.300852E-001	-1.938315E-001
635	4	-8.897189E-005	-4.699081E-006	-3.139559E-001	-1.657869E-001
635	5	-9.150677E-005	-5.724467E-006	-3.228923E-001	-2.019853E-001
635	6	-9.354287E-005	-5.756699E-006	-3.300769E-001	-2.031332E-001
635	7	-9.150677E-005	-5.139258E-006	-3.228923E-001	-1.813481E-001
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702	7	-3.575751E-002	-5.549108E-003	-1.261786E-001	-1.958132E-001
702	8	-3.579977E-002	-5.541713E-003	-1.263287E-001	-1.955505E-001
702	9	-3.575801E-002	-5.541744E-003	-1.261788E-001	-1.955515E-001
703	1	-3.594188E-002	-5.958618E-003	-1.268277E-001	-2.102647E-001
703	2	-3.582848E-002	-5.958666E-003	-1.264285E-001	-2.102641E-001
703	3	-3.582870E-002	-5.978646E-003	-1.264288E-001	-2.109683E-001
703	4	-3.594218E-002	-5.978571E-003	-1.268284E-001	-2.109678E-001
703	5	-3.588598E-002	-5.958567E-003	-1.266290E-001	-2.102632E-001
703	6	-3.582885E-002	-5.968659E-003	-1.264292E-001	-2.106160E-001
703	7	-3.588516E-002	-5.978596E-003	-1.266295E-001	-2.109629E-001
703	8	-3.594162E-002	-5.968659E-003	-1.268281E-001	-2.106160E-001
703	9	-3.588564E-002	-5.968659E-003	-1.266294E-001	-2.106160E-001
704	1	-3.689189E-002	-6.320988E-003	-1.273534E-001	-2.230478E-001
704	2	-3.597588E-002	-6.320999E-003	-1.269472E-001	-2.230486E-001
704	3	-3.597527E-002	-6.341411E-003	-1.269474E-001	-2.237689E-001
704	4	-3.689083E-002	-6.341348E-003	-1.273564E-001	-2.237658E-001
704	5	-3.643370E-002	-6.320988E-003	-1.271499E-001	-2.230514E-001
704	6	-3.597587E-002	-6.331158E-003	-1.269471E-001	-2.234085E-001
704	7	-3.603279E-002	-6.341316E-003	-1.271515E-001	-2.237658E-001
704	8	-3.689096E-002	-6.331166E-003	-1.273537E-001	-2.234083E-001
704	9	-3.683324E-002	-6.331111E-003	-1.271496E-001	-2.234086E-001
705	1	-3.619444E-002	-6.628668E-003	-1.277176E-001	-2.339104E-001
705	2	-3.611876E-002	-6.628882E-003	-1.274532E-001	-2.339083E-001
705	3	-3.611925E-002	-6.641975E-003	-1.274540E-001	-2.343764E-001
705	4	-3.619403E-002	-6.642042E-003	-1.277173E-001	-2.343758E-001
705	5	-3.615657E-002	-6.628953E-003	-1.275852E-001	-2.339126E-001
705	6	-3.611933E-002	-6.635488E-003	-1.274536E-001	-2.341435E-001
705	7	-3.615657E-002	-6.641923E-003	-1.275852E-001	-2.343747E-001
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705	9	-3.615657E-002	-6.635488E-003	-1.275852E-001	-2.341435E-001
706	1	-3.617369E-002	-6.903911E-003	-1.276448E-001	-2.436198E-001
706	2	-3.620119E-002	-6.903923E-003	-1.277413E-001	-2.436168E-001
706	3	-3.620045E-002	-6.899067E-003	-1.277419E-001	-2.434494E-001
706	4	-3.617306E-002	-6.899048E-003	-1.276475E-001	-2.434487E-001
706	5	-3.618653E-002	-6.903985E-003	-1.276940E-001	-2.436216E-001
706	6	-3.620062E-002	-6.901561E-003	-1.277410E-001	-2.435340E-001
706	7	-3.618734E-002	-6.899015E-003	-1.276940E-001	-2.434477E-001

706	8	-3.617288E-002	-6.901561E-003	-1.276426E-001	-2.435340E-001
706	9	-3.618741E-002	-6.901561E-003	-1.276942E-001	-2.435340E-001
707	1	-3.596175E-002	-7.198132E-003	-1.269801E-001	-2.537179E-001
707	2	-3.614255E-002	-7.198187E-003	-1.275372E-001	-2.537195E-001
707	3	-3.614234E-002	-7.158311E-003	-1.275371E-001	-2.525975E-001
707	4	-3.596180E-002	-7.158298E-003	-1.268979E-001	-2.525968E-001
707	5	-3.605187E-002	-7.198325E-003	-1.272177E-001	-2.537243E-001
707	6	-3.614251E-002	-7.174253E-003	-1.275370E-001	-2.531588E-001
707	7	-3.605289E-002	-7.158257E-003	-1.272178E-001	-2.525919E-001
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708	1	-3.561255E-002	-7.546776E-003	-1.256782E-001	-2.663011E-001
708	2	-3.589441E-002	-7.546608E-003	-1.266609E-001	-2.662982E-001
708	3	-3.589456E-002	-7.497123E-003	-1.266605E-001	-2.645549E-001
708	4	-3.561299E-002	-7.497199E-003	-1.256673E-001	-2.645552E-001
708	5	-3.575396E-002	-7.546788E-003	-1.261649E-001	-2.663041E-001
708	6	-3.589484E-002	-7.521924E-003	-1.266605E-001	-2.654271E-001
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708	8	-3.561277E-002	-7.521990E-003	-1.256697E-001	-2.654279E-001
708	9	-3.575396E-002	-7.521939E-003	-1.261649E-001	-2.654276E-001
709	1	-3.532067E-002	-8.135113E-003	-1.246355E-001	-2.870658E-001
709	2	-3.553979E-002	-8.135153E-003	-1.254110E-001	-2.870658E-001
709	3	-3.554000E-002	-8.096758E-003	-1.254109E-001	-2.857189E-001
709	4	-3.532042E-002	-8.096822E-003	-1.246364E-001	-2.857181E-001
709	5	-3.543088E-002	-8.135173E-003	-1.250237E-001	-2.870669E-001
709	6	-3.553986E-002	-8.115954E-003	-1.254110E-001	-2.863879E-001
709	7	-3.543054E-002	-8.096790E-003	-1.250231E-001	-2.857091E-001
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709	9	-3.543045E-002	-8.115954E-003	-1.250236E-001	-2.863879E-001
710	1	-3.245698E-004	-8.991611E-005	-1.145342E-001	-3.172894E-001
710	2	-3.492866E-002	-8.991567E-003	-1.232538E-001	-3.172847E-001
710	3	-3.492821E-002	-8.557822E-003	-1.232529E-001	-3.019788E-001
710	4	-3.245774E-002	-8.558278E-003	-1.145310E-001	-3.019942E-001
710	5	-3.369249E-002	-8.991593E-003	-1.188905E-001	-3.172879E-001
710	6	-3.492844E-002	-8.774681E-003	-1.232536E-001	-3.096314E-001
710	7	-3.369249E-002	-8.557796E-003	-1.188905E-001	-3.019823E-001
710	8	-3.396523E-002	-9.182736E-003	-1.145380E-001	-3.096405E-001
710	9	-3.369249E-002	-8.774767E-003	-1.188905E-001	-3.096367E-001
711	1	+9.421913E-004	-9.973422E-004	+1.070849E-001	-1.133524E+000
711	2	-2.416631E-004	-3.212295E-004	-8.527530E-002	-1.133524E+000
711	3	-1.164485E-002	-1.085769E-002	-8.527561E-002	-7.951038E-001
711	4	+3.034680E-004	-2.253243E-004	+1.070854E-001	-7.951038E-001
711	5	+3.089935E-005	-3.212288E-004	+1.090480E-002	-1.133522E+000
711	6	-2.416661E-004	-2.732768E-004	-8.527616E-002	-9.643115E-001
711	7	+3.089935E-005	-2.253239E-004	+1.090480E-002	-7.951019E-001
711	8	+3.034642E-004	-2.732768E-004	+1.070854E-001	-9.643115E-001
711	9	+3.089935E-005	-2.732768E-004	+1.090480E-002	-9.643115E-001
712	1	-3.244621E-003	-2.963741E-003	-1.144986E-001	-1.045778E+000
712	2	-3.027583E-003	-2.939597E-003	-1.068330E-001	-1.037254E+000
712	3	-3.027691E-003	-3.026955E-003	-1.068346E-001	-1.068893E+000
712	4	-3.244768E-003	-3.057132E-003	-1.144938E-001	-1.078742E+000
712	5	-3.132547E-003	-2.951232E-003	-1.105344E-001	-1.041378E+000
712	6	-3.027686E-003	-2.983257E-003	-1.068321E-001	-1.052678E+000
712	7	-3.132566E-003	-3.041496E-003	-1.105348E-001	-1.073229E+000
712	8	-3.244588E-003	-3.010468E-003	-1.144903E-001	-1.062256E+000
712	9	-3.132556E-003	-2.996404E-003	-1.105365E-001	-1.057301E+000
713	1	-1.064533E-004	-8.940869E-006	-3.756358E-001	-3.154789E-001
713	2	-3.707645E-005	+8.469515E-006	-1.308246E-001	+2.988429E-001
713	3	-3.751126E-005	-7.375509E-006	-1.323631E-001	-2.602521E-001
713	4	-1.065102E-004	-2.463314E-005	-3.758295E-001	-8.692188E-001

713	5	-7.182755E-005	-2.511881E-007	-2.534482E-001	-8.869372E-003
713	6	-3.729447E-005	+5.253005E-007	-1.315993E-001	+1.852955E-002
713	7	-7.207360E-005	-1.680858E-005	-2.543146E-001	-5.652730E-001
713	8	-1.064823E-004	-1.680938E-005	-3.757272E-001	-5.931273E-001
713	9	-7.195085E-005	-8.157388E-006	-2.538869E-001	-2.878517E-001
714	1	-7.577451E-005	-2.168379E-005	-2.673703E-001	-7.623176E-001
714	2	-5.309784E-005	-1.592525E-005	-1.873618E-001	-5.619219E-001
714	3	-5.338372E-003	-2.115619E-003	-1.883654E-001	-7.465129E-001
714	4	-7.580823E-005	-2.673648E-005	-2.674989E-001	-9.434128E-001
714	5	-6.447662E-005	-1.877405E-005	-2.275145E-001	-6.624592E-001
714	6	-6.553158E-005	-2.283712E-005	-1.878660E-001	-6.547010E-001
714	7	-6.463689E-005	-2.395627E-005	-2.280737E-001	-8.453081E-001
714	8	-7.579238E-005	-2.418416E-005	-2.674289E-001	-8.533571E-001
714	9	-6.455757E-005	-2.137916E-005	-2.277947E-001	-7.543981E-001
715	1	-4.247358E-003	-2.419430E-003	-1.498727E-001	-8.537287E-001
715	2	-4.430931E-003	-2.452781E-003	-1.563470E-001	-8.654763E-001
715	3	-4.430923E-003	-2.405313E-003	-1.563479E-001	-8.487442E-001
715	4	-4.247519E-003	-2.366928E-003	-1.498753E-001	-8.351811E-001
715	5	-4.343882E-003	-2.436947E-003	-1.532756E-001	-8.598966E-001
715	6	-4.430876E-003	-2.429884E-003	-1.563479E-001	-8.571255E-001
715	7	-4.343882E-003	-2.387165E-003	-1.532756E-001	-8.423237E-001
715	8	-4.247438E-003	-2.393183E-003	-1.498736E-001	-8.444473E-001
715	9	-4.343882E-003	-2.412046E-003	-1.532756E-001	-8.511186E-001
716	1	-3.350751E-005	-1.781421E-005	-1.182342E-001	-6.285932E-001
716	2	-4.345690E-003	-2.030136E-003	-1.533382E-001	-7.163484E-001
716	3	-4.332253E-003	-1.799117E-003	-1.528711E-001	-6.348252E-001
716	4	-3.342951E-005	-1.552863E-005	-1.179603E-001	-5.476373E-001
716	5	-3.847986E-005	-1.905677E-005	-1.357765E-001	-6.724447E-001
716	6	-4.338811E-003	-1.914308E-003	-1.530958E-001	-6.754729E-001
716	7	-3.837364E-003	-1.675484E-003	-1.354049E-001	-5.911902E-001
716	8	-3.346777E-005	-1.666469E-005	-1.180986E-001	-5.880237E-001
716	9	-4.888123E-003	-1.863680E-003	-1.355876E-001	-6.317208E-001
717	1	-1.453924E-004	-6.375617E-005	-1.688400E-001	-7.403801E-001
717	2	-4.631951E-003	-2.059957E-003	-1.634388E-001	-7.268826E-001
717	3	-4.635034E-003	-2.095931E-003	-1.635479E-001	-7.395671E-001
717	4	-4.787265E-003	-2.133954E-003	-1.689197E-001	-7.529681E-001
717	5	-4.788489E-003	-2.079198E-003	-1.661406E-001	-7.336472E-001
717	6	-4.633578E-003	-2.078022E-003	-1.634988E-001	-7.332281E-001
717	7	-4.711087E-003	-2.114972E-003	-1.662419E-001	-7.462737E-001
717	8	-4.785982E-003	-2.116183E-003	-1.688765E-001	-7.466869E-001
717	9	-4.709819E-003	-2.097869E-003	-1.661395E-001	-7.399665E-001
718	1	-4.271072E-003	-2.245394E-003	-1.507866E-001	-7.923144E-001
718	2	-4.585826E-003	-2.314200E-003	-1.618162E-001	-8.165801E-001
718	3	-4.585920E-003	-2.243611E-003	-1.618139E-001	-7.916932E-001
718	4	-4.271113E-003	-2.166101E-003	-1.507183E-001	-7.643577E-001
718	5	-4.437552E-003	-2.281814E-003	-1.565827E-001	-8.051578E-001
718	6	-4.585705E-003	-2.278937E-003	-1.618094E-001	-8.041475E-001
718	7	-4.437533E-003	-2.207153E-003	-1.565828E-001	-7.788073E-001
718	8	-4.270914E-003	-2.205795E-003	-1.507848E-001	-7.783397E-001
718	9	-4.437524E-003	-2.244494E-003	-1.565827E-001	-7.919953E-001
719	1	-4.048774E-003	-2.735794E-003	-1.428615E-001	-9.653460E-001
719	2	-4.025460E-003	-2.732365E-003	-1.420399E-001	-9.641346E-001
719	3	-4.025619E-003	-2.740107E-003	-1.420418E-001	-9.668681E-001
719	4	-4.048956E-003	-2.744169E-003	-1.428627E-001	-9.683030E-001
719	5	-4.036753E-003	-2.734033E-003	-1.424373E-001	-9.647291E-001
719	6	-4.025387E-003	-2.736226E-003	-1.420412E-001	-9.655820E-001
719	7	-4.036656E-003	-2.742060E-003	-1.424368E-001	-9.675689E-001
719	8	-4.048865E-003	-2.740014E-003	-1.428659E-001	-9.668227E-001
719	9	-4.036591E-003	-2.738044E-003	-1.424363E-001	-9.661369E-001
720	1	-2.947335E-003	-3.189993E-003	-1.040004E-001	-1.097376E+000

720	2	-2.619800E-003	-3.073521E-003	-9.244128E-002	-1.084532E+000
720	3	-2.619854E-003	-3.217196E-003	-9.244131E-002	-1.135213E+000
720	4	-2.947259E-003	-3.262764E-003	-1.039963E-001	-1.151296E+000
720	5	-2.778486E-003	-3.091180E-003	-9.804012E-002	-1.090755E+000
720	6	-2.619748E-003	-3.145368E-003	-9.244063E-002	-1.109874E+000
720	7	-2.778486E-003	-3.239241E-003	-9.804012E-002	-1.143005E+000
720	8	-2.947258E-003	-3.186355E-003	-1.039960E-001	-1.124336E+000
720	9	-2.778486E-003	-3.165240E-003	-9.804012E-002	-1.116879E+000
721	1	-5.134245E-005	-1.327973E-005	-1.811606E-001	-4.685908E-001
721	2	-4.612801E-005	-1.197728E-005	-1.627639E-001	-4.226089E-001
721	3	-4.793165E-003	-1.365975E-003	-1.628824E-001	-4.642086E-001
721	4	-5.134428E-005	-1.444933E-005	-1.811764E-001	-5.098560E-001
721	5	-4.873763E-005	-1.262832E-005	-1.719717E-001	-4.456075E-001
721	6	-4.614486E-005	-1.256746E-005	-1.628264E-001	-4.434561E-001
721	7	-4.875621E-005	-1.380300E-005	-1.720405E-001	-4.870544E-001
721	8	-5.134283E-005	-1.386654E-005	-1.811740E-001	-4.892809E-001
721	9	-4.874793E-005	-1.321752E-005	-1.720031E-001	-4.663945E-001
722	1	-4.474792E-003	-2.611595E-003	-1.578903E-001	-9.215193E-001
722	2	-4.599413E-003	-2.634377E-003	-1.622917E-001	-9.295617E-001
722	3	-4.599399E-003	-2.597493E-003	-1.622931E-001	-9.165650E-001
722	4	-4.474729E-003	-2.571327E-003	-1.578979E-001	-9.073136E-001
722	5	-4.539803E-003	-2.623530E-003	-1.601894E-001	-9.257173E-001
722	6	-4.599392E-003	-2.615995E-003	-1.622922E-001	-9.230662E-001
722	7	-4.539828E-003	-2.584967E-003	-1.601930E-001	-9.121237E-001
722	8	-4.474760E-003	-2.591450E-003	-1.578996E-001	-9.144207E-001
722	9	-4.539834E-003	-2.604270E-003	-1.601920E-001	-9.189297E-001
723	1	-2.506022E-003	-3.215314E-003	-8.842630E-002	-1.134556E+000
723	2	-2.059878E-003	-3.165679E-003	-7.260337E-002	-1.117037E+000
723	3	-2.059814E-003	-3.377453E-003	-7.260184E-002	-1.191757E+000
723	4	-2.506057E-003	-3.439523E-003	-8.842503E-002	-1.213662E+000
723	5	-2.276595E-003	-3.189837E-003	-8.032905E-002	-1.125556E+000
723	6	-2.059866E-003	-3.271583E-003	-7.260385E-002	-1.154407E+000
723	7	-2.276497E-003	-3.407525E-003	-8.032832E-002	-1.202387E+000
723	8	-2.506069E-003	-3.327429E-003	-8.842757E-002	-1.174189E+000
723	9	-2.276479E-003	-3.298692E-003	-8.032704E-002	-1.163969E+000
724	1	-4.004717E-003	-2.946365E-003	-1.413072E-001	-1.039654E+000
724	2	-3.892300E-003	-2.929918E-003	-1.373395E-001	-1.033846E+000
724	3	-3.892301E-003	-2.971020E-003	-1.373440E-001	-1.048343E+000
724	4	-4.004618E-003	-2.990467E-003	-1.413071E-001	-1.055218E+000
724	5	-3.946410E-003	-2.937883E-003	-1.392511E-001	-1.036650E+000
724	6	-3.892132E-003	-2.950475E-003	-1.373417E-001	-1.041090E+000
724	7	-3.946410E-003	-2.980403E-003	-1.392511E-001	-1.051651E+000
724	8	-4.004787E-003	-2.968436E-003	-1.413057E-001	-1.047433E+000
724	9	-3.946410E-003	-2.959118E-003	-1.392511E-001	-1.044151E+000
725	1	-2.977279E-005	-1.557036E-005	-1.050553E-001	-5.494139E-001
725	2	-4.361064E-003	-1.901316E-003	-1.538848E-001	-6.708930E-001
725	3	-4.351528E-003	-1.586259E-003	-1.535452E-001	-5.597288E-001
725	4	-2.967268E-005	-1.240452E-005	-1.047096E-001	-4.377256E-001
725	5	-3.670806E-005	-1.729584E-005	-1.295286E-001	-6.103055E-001
725	6	-4.356478E-003	-1.743803E-003	-1.537181E-001	-6.153190E-001
725	7	-3.661161E-003	-1.413806E-003	-1.291887E-001	-4.988634E-001
725	8	-2.972290E-005	-1.398735E-005	-1.048844E-001	-4.935459E-001
725	9	-3.845600E-003	-1.648684E-003	-1.293596E-001	-5.545806E-001
726	1	-2.731698E-004	-1.057812E-004	-1.761716E-001	-6.822394E-001
726	2	-4.921155E-003	-1.915559E-003	-1.736489E-001	-6.759244E-001
726	3	-4.922329E-003	-1.932096E-003	-1.736872E-001	-6.817513E-001
726	4	-4.993837E-003	-1.958049E-003	-1.762144E-001	-6.880888E-001
726	5	-4.957140E-003	-1.924493E-003	-1.749128E-001	-6.790730E-001
726	6	-4.921555E-003	-1.923861E-003	-1.736615E-001	-6.788516E-001
726	7	-4.957860E-003	-1.941074E-003	-1.749493E-001	-6.849121E-001

726	8	-4.993307E-003	-1.941794E-003	-1.761912E-001	-6.851664E-001
726	9	-4.957525E-003	-1.932794E-003	-1.749284E-001	-6.820108E-001
727	1	-4.552905E-003	-2.065986E-003	-1.606530E-001	-7.289632E-001
727	2	-4.987591E-003	-2.174633E-003	-1.759960E-001	-7.673244E-001
727	3	-4.978879E-003	-2.072944E-003	-1.756789E-001	-7.314602E-001
727	4	-4.546205E-003	-1.964990E-003	-1.604214E-001	-6.933435E-001
727	5	-4.770262E-003	-2.120210E-003	-1.683202E-001	-7.481152E-001
727	6	-4.983241E-003	-2.123628E-003	-1.758372E-001	-7.493437E-001
727	7	-4.762367E-003	-2.018930E-003	-1.680454E-001	-7.123030E-001
727	8	-4.549442E-003	-2.015251E-003	-1.605372E-001	-7.111025E-001
727	9	-4.766228E-003	-2.069442E-003	-1.681802E-001	-7.302192E-001
728	1	-4.677032E-003	-2.244379E-003	-1.650383E-001	-7.919573E-001
728	2	-5.030252E-003	-2.332791E-003	-1.774995E-001	-8.231440E-001
728	3	-5.028529E-003	-2.249473E-003	-1.771496E-001	-7.937458E-001
728	4	-4.669167E-003	-2.161664E-003	-1.647610E-001	-7.627512E-001
728	5	-4.853403E-003	-2.288580E-003	-1.712589E-001	-8.075292E-001
728	6	-5.025470E-003	-2.291043E-003	-1.773224E-001	-8.084143E-001
728	7	-4.844664E-003	-2.205512E-003	-1.709452E-001	-7.782164E-001
728	8	-4.672852E-003	-2.202956E-003	-1.648952E-001	-7.773328E-001
728	9	-4.848985E-003	-2.246906E-003	-1.710975E-001	-7.928415E-001
729	1	-4.671040E-003	-2.438304E-003	-1.648198E-001	-8.603781E-001
729	2	-4.947845E-003	-2.498516E-003	-1.745903E-001	-8.816267E-001
729	3	-4.947959E-003	-2.426955E-003	-1.745912E-001	-8.563854E-001
729	4	-4.671087E-003	-2.359299E-003	-1.648218E-001	-8.325041E-001
729	5	-4.816405E-003	-2.469954E-003	-1.699534E-001	-8.715246E-001
729	6	-4.948189E-003	-2.462752E-003	-1.745938E-001	-8.690102E-001
729	7	-4.816405E-003	-2.394840E-003	-1.699534E-001	-8.450403E-001
729	8	-4.678856E-003	-2.398732E-003	-1.648212E-001	-8.464064E-001
729	9	-4.816405E-003	-2.432366E-003	-1.699534E-001	-8.582788E-001
730	1	-1.881617E-003	-3.143083E-003	-6.639276E-002	-1.109311E+000
730	2	-1.121242E-003	-3.059322E-003	-3.956386E-002	-1.079513E+000
730	3	-1.121258E-003	-3.444634E-003	-3.956312E-002	-1.215461E+000
730	4	-1.881519E-003	-3.549694E-003	-6.639343E-002	-1.252545E+000
730	5	-1.491470E-003	-3.180503E-003	-5.262821E-002	-1.094035E+000
730	6	-1.121217E-003	-3.251977E-003	-3.956432E-002	-1.147488E+000
730	7	-1.491470E-003	-3.495832E-003	-5.262821E-002	-1.233539E+000
730	8	-1.881452E-003	-3.346739E-003	-6.639866E-002	-1.180925E+000
730	9	-1.491470E-003	-3.290118E-003	-5.262821E-002	-1.163772E+000
731	1	-3.839080E-003	-3.171011E-003	-1.354653E-001	-1.118922E+000
731	2	-3.597668E-003	-3.135419E-003	-1.269446E-001	-1.106365E+000
731	3	-3.597675E-003	-3.232914E-003	-1.269465E-001	-1.140756E+000
731	4	-3.839123E-003	-3.275234E-003	-1.354720E-001	-1.155688E+000
731	5	-3.714409E-003	-3.152691E-003	-1.310636E-001	-1.112445E+000
731	6	-3.597681E-003	-3.184194E-003	-1.269439E-001	-1.123568E+000
731	7	-3.714398E-003	-3.253390E-003	-1.310650E-001	-1.147985E+000
731	8	-3.839161E-003	-3.223077E-003	-1.354725E-001	-1.137296E+000
731	9	-3.714398E-003	-3.203012E-003	-1.310660E-001	-1.130207E+000
732	1	-4.626155E-003	-2.845424E-003	-1.632365E-001	-1.004030E+000
732	2	-4.691250E-003	-2.857389E-003	-1.655310E-001	-1.008247E+000
732	3	-4.690972E-003	-2.835754E-003	-1.655256E-001	-1.000620E+000
732	4	-4.626189E-003	-2.822060E-003	-1.632341E-001	-9.957889E-001
732	5	-4.659890E-003	-2.851663E-003	-1.644267E-001	-1.006222E+000
732	6	-4.691171E-003	-2.846594E-003	-1.655283E-001	-1.004442E+000
732	7	-4.659964E-003	-2.829175E-003	-1.644255E-001	-9.982874E-001
732	8	-4.626144E-003	-2.833748E-003	-1.632338E-001	-9.999157E-001
732	9	-4.659849E-003	-2.840419E-003	-1.644273E-001	-1.002265E+000
733	1	-4.782587E-005	-1.365185E-005	-1.687577E-001	-4.816915E-001
733	2	-5.892432E-003	-1.443664E-003	-1.783783E-001	-5.057054E-001
733	3	-5.053317E-003	-1.371739E-003	-1.783249E-001	-4.840347E-001
733	4	-4.782388E-005	-1.304163E-005	-1.687515E-001	-4.601828E-001

733	5	-4.919094E-005	-1.399125E-005	-1.735697E-001	-4.936861E-001
733	6	-5.054542E-003	-1.402434E-003	-1.783507E-001	-4.948562E-001
733	7	-5.204210E-003	-1.415801E-003	-1.735381E-001	-4.721071E-001
733	8	-4.782454E-005	-1.334584E-005	-1.687532E-001	-4.708961E-001
733	9	-4.918473E-005	-1.368415E-005	-1.735512E-001	-4.828655E-001
734	1	-4.621873E-005	-1.592032E-005	-1.630876E-001	-5.617485E-001
734	2	-5.121311E-003	-1.716887E-003	-1.807085E-001	-6.058185E-001
734	3	-5.114811E-003	-1.603222E-003	-1.804830E-001	-5.656985E-001
734	4	-4.617979E-003	-1.479157E-003	-1.629422E-001	-5.219229E-001
734	5	-4.871402E-003	-1.654456E-003	-1.718927E-001	-5.837739E-001
734	6	-5.118066E-003	-1.659928E-003	-1.805989E-001	-5.857133E-001
734	7	-4.866184E-003	-1.541139E-003	-1.717095E-001	-5.437813E-001
734	8	-4.799659E-003	-1.595056E-003	-1.630206E-001	-5.417793E-001
734	9	-4.868872E-003	-1.597611E-003	-1.717992E-001	-5.637249E-001
735	1	-7.957186E-004	-6.849476E-003	-2.807472E-002	-2.416897E+000
735	2	+6.409401E-006	-6.689632E-005	+2.261639E-002	-2.360496E+000
735	3	+6.409891E-006	-7.473701E-005	+2.261598E-002	-2.637157E+000
735	4	-7.957601E-004	-7.673558E-003	-2.807489E-002	-2.707685E+000
735	5	-5.054323E-006	-5.741196E-004	-2.101460E-003	-2.387998E+000
735	6	+6.409172E-006	-7.001693E-005	+2.261669E-002	-2.498831E+000
735	7	-1.070728E-005	-1.362275E-003	-2.100233E-003	-2.671546E+000
735	8	-7.957164E-004	-7.261527E-003	-2.807598E-002	-2.562290E+000
735	9	-1.067801E-005	-1.286909E-003	-2.101289E-003	-2.529772E+000
736	1	-4.653447E-003	-1.845031E-003	-1.641946E-001	-6.510398E-001
736	2	-5.314023E-003	-2.010885E-003	-1.875061E-001	-7.095615E-001
736	3	-5.305481E-003	-1.858565E-003	-1.872046E-001	-6.557983E-001
736	4	-4.648360E-003	-1.693807E-003	-1.640185E-001	-5.976692E-001
736	5	-4.983457E-003	-1.927907E-003	-1.758492E-001	-6.802842E-001
736	6	-5.309673E-003	-1.934527E-003	-1.873559E-001	-6.826123E-001
736	7	-4.976563E-003	-1.776069E-003	-1.756047E-001	-6.267222E-001
736	8	-4.650666E-003	-1.769173E-003	-1.641052E-001	-6.242674E-001
736	9	-4.980185E-003	-1.851814E-003	-1.757288E-001	-6.534319E-001
737	1	-4.987261E-003	-2.044801E-003	-1.759759E-001	-7.215397E-001
737	2	-5.463663E-003	-2.163935E-003	-1.927973E-001	-7.635500E-001
737	3	-5.454229E-003	-2.053241E-003	-1.924506E-001	-7.245196E-001
737	4	-4.979980E-003	-1.935144E-003	-1.757252E-001	-6.828218E-001
737	5	-5.225349E-003	-2.104298E-003	-1.843818E-001	-7.425178E-001
737	6	-5.459823E-003	-2.108370E-003	-1.926254E-001	-7.439606E-001
737	7	-5.216922E-003	-1.994120E-003	-1.840835E-001	-7.036328E-001
737	8	-4.983632E-003	-1.989755E-003	-1.758478E-001	-7.021312E-001
737	9	-5.221177E-003	-2.049802E-003	-1.842293E-001	-7.230226E-001
738	1	-3.452427E-002	-3.764761E-004	-1.218264E-001	-1.328469E-002
738	2	-3.452641E-002	-3.764610E-004	-1.218334E-001	-1.328215E-002
738	3	-3.452650E-002	-3.760850E-004	-1.218337E-001	-1.327300E-002
738	4	-3.452480E-002	-3.761306E-004	-1.218292E-001	-1.327064E-002
738	5	-3.452525E-002	-3.764336E-004	-1.218319E-001	-1.328319E-002
738	6	-3.452641E-002	-3.762796E-004	-1.218336E-001	-1.327880E-002
738	7	-3.452525E-002	-3.761078E-004	-1.218319E-001	-1.327182E-002
738	8	-3.452445E-002	-3.762796E-004	-1.218291E-001	-1.327880E-002
738	9	-3.452525E-002	-3.762796E-004	-1.218319E-001	-1.327880E-002
739	1	-3.451196E-002	-1.124535E-003	-1.217854E-001	-3.968026E-002
739	2	-3.452275E-002	-1.124453E-003	-1.218209E-001	-3.967869E-002
739	3	-3.452266E-002	-1.122777E-003	-1.218212E-001	-3.961758E-002
739	4	-3.451239E-002	-1.122765E-003	-1.217849E-001	-3.961767E-002
739	5	-3.451781E-002	-1.124495E-003	-1.218016E-001	-3.960159E-002
739	6	-3.452266E-002	-1.123643E-003	-1.218210E-001	-3.964948E-002
739	7	-3.451757E-002	-1.122823E-003	-1.218033E-001	-3.962027E-002
739	8	-3.451298E-002	-1.123592E-003	-1.217863E-001	-3.964977E-002
739	9	-3.451788E-002	-1.123631E-003	-1.218029E-001	-3.964881E-002
740	1	-3.450109E-002	-1.859007E-003	-1.217431E-001	-6.560060E-002

740	2	-3.450985E-002	-1.858979E-003	-1.217756E-001	-6.559795E-002
740	3	-3.451017E-002	-1.857364E-003	-1.217758E-001	-6.554013E-002
740	4	-3.450098E-002	-1.857350E-003	-1.217439E-001	-6.554161E-002
740	5	-3.450542E-002	-1.858924E-003	-1.217559E-001	-6.559785E-002
740	6	-3.450977E-002	-1.858146E-003	-1.217759E-001	-6.556945E-002
740	7	-3.450527E-002	-1.857387E-003	-1.217587E-001	-6.553897E-002
740	8	-3.450879E-002	-1.858146E-003	-1.217438E-001	-6.556945E-002
740	9	-3.450534E-002	-1.858146E-003	-1.217584E-001	-6.556945E-002
741	1	-3.449669E-002	-2.572488E-003	-1.217271E-001	-9.077261E-002
741	2	-3.449853E-002	-2.572385E-003	-1.217365E-001	-9.077378E-002
741	3	-3.449899E-002	-2.571969E-003	-1.217377E-001	-9.075490E-002
741	4	-3.449666E-002	-2.571956E-003	-1.217276E-001	-9.075639E-002
741	5	-3.449735E-002	-2.572330E-003	-1.217319E-001	-9.076986E-002
741	6	-3.449852E-002	-2.572207E-003	-1.217355E-001	-9.076436E-002
741	7	-3.449823E-002	-2.571933E-003	-1.217320E-001	-9.075755E-002
741	8	-3.449610E-002	-2.572207E-003	-1.217280E-001	-9.076436E-002
741	9	-3.449767E-002	-2.572207E-003	-1.217317E-001	-9.076436E-002
742	1	-5.022939E-003	-2.671580E-003	-1.772361E-001	-9.426974E-001
742	2	-5.262836E-003	-2.724061E-003	-1.857044E-001	-9.612076E-001
742	3	-5.262840E-003	-2.653225E-003	-1.857064E-001	-9.362037E-001
742	4	-5.023029E-003	-2.593945E-003	-1.772361E-001	-9.152740E-001
742	5	-5.148410E-003	-2.699079E-003	-1.816659E-001	-9.523892E-001
742	6	-5.262838E-003	-2.688586E-003	-1.857856E-001	-9.487058E-001
742	7	-5.148348E-003	-2.624073E-003	-1.816650E-001	-9.262173E-001
742	8	-5.022816E-003	-2.632804E-003	-1.772345E-001	-9.289924E-001
742	9	-5.148415E-003	-2.661968E-003	-1.816635E-001	-9.393087E-001
743	1	-3.451041E-002	-3.256641E-003	-1.217770E-001	-1.149190E-001
743	2	-3.449797E-002	-3.256641E-003	-1.217339E-001	-1.149166E-001
743	3	-3.449757E-002	-3.258809E-003	-1.217333E-001	-1.149929E-001
743	4	-3.450925E-002	-3.258807E-003	-1.217749E-001	-1.149948E-001
743	5	-3.450412E-002	-3.256659E-003	-1.217533E-001	-1.149168E-001
743	6	-3.449740E-002	-3.257717E-003	-1.217328E-001	-1.149557E-001
743	7	-3.450401E-002	-3.258720E-003	-1.217552E-001	-1.149916E-001
743	8	-3.451016E-002	-3.257731E-003	-1.217766E-001	-1.149569E-001
743	9	-3.450385E-002	-3.257689E-003	-1.217539E-001	-1.149574E-001
744	1	-3.456018E-002	-3.904158E-003	-1.219513E-001	-1.377655E-001
744	2	-3.451816E-002	-3.904171E-003	-1.218038E-001	-1.377676E-001
744	3	-3.451766E-002	-3.911614E-003	-1.218039E-001	-1.380306E-001
744	4	-3.456027E-002	-3.911627E-003	-1.219547E-001	-1.380291E-001
744	5	-3.453943E-002	-3.904135E-003	-1.218782E-001	-1.377663E-001
744	6	-3.451809E-002	-3.907857E-003	-1.218051E-001	-1.378960E-001
744	7	-3.453943E-002	-3.911650E-003	-1.218782E-001	-1.380318E-001
744	8	-3.455999E-002	-3.907857E-003	-1.219530E-001	-1.378960E-001
744	9	-3.453943E-002	-3.907857E-003	-1.218782E-001	-1.378960E-001
745	1	-3.465842E-002	-4.507953E-003	-1.222982E-001	-1.590713E-001
745	2	-3.457807E-002	-4.507919E-003	-1.220175E-001	-1.590739E-001
745	3	-3.457816E-002	-4.522008E-003	-1.220174E-001	-1.595673E-001
745	4	-3.465831E-002	-4.521960E-003	-1.223005E-001	-1.595696E-001
745	5	-3.461841E-002	-4.507944E-003	-1.221579E-001	-1.590726E-001
745	6	-3.457816E-002	-4.514913E-003	-1.220149E-001	-1.593171E-001
745	7	-3.461841E-002	-4.521984E-003	-1.221579E-001	-1.595684E-001
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746	1	-3.481431E-002	-5.060688E-003	-1.228485E-001	-1.785766E-001
746	2	-3.468804E-002	-5.060699E-003	-1.224023E-001	-1.785787E-001
746	3	-3.468782E-002	-5.082846E-003	-1.224038E-001	-1.793595E-001
746	4	-3.481415E-002	-5.082856E-003	-1.228473E-001	-1.793617E-001
746	5	-3.475112E-002	-5.060663E-003	-1.226272E-001	-1.785774E-001
746	6	-3.468775E-002	-5.071746E-003	-1.224042E-001	-1.789653E-001
746	7	-3.475112E-002	-5.082881E-003	-1.226272E-001	-1.793606E-001

746	8	-3.481406E-002	-5.071746E-003	-1.228469E-001	-1.789653E-001
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747	1	-3.502900E-002	-5.555758E-003	-1.236070E-001	-1.960494E-001
747	2	-3.485801E-002	-5.555903E-003	-1.230032E-001	-1.960529E-001
747	3	-3.485738E-002	-5.586015E-003	-1.230012E-001	-1.971148E-001
747	4	-3.502781E-002	-5.586030E-003	-1.236049E-001	-1.971149E-001
747	5	-3.494352E-002	-5.555837E-003	-1.233044E-001	-1.960508E-001
747	6	-3.485728E-002	-5.570934E-003	-1.230011E-001	-1.965816E-001
747	7	-3.494304E-002	-5.585950E-003	-1.233039E-001	-1.971130E-001
747	8	-3.502841E-002	-5.570916E-003	-1.236078E-001	-1.965820E-001
747	9	-3.494304E-002	-5.570933E-003	-1.233040E-001	-1.965812E-001
748	1	-5.113527E-003	-2.247586E-003	-1.804398E-001	-7.930862E-001
748	2	-5.518798E-003	-2.348858E-003	-1.947329E-001	-8.288041E-001
748	3	-5.507725E-003	-2.253648E-003	-1.943427E-001	-7.952060E-001
748	4	-5.104634E-003	-2.153012E-003	-1.801230E-001	-7.596954E-001
748	5	-5.316040E-003	-2.298142E-003	-1.875887E-001	-8.109123E-001
748	6	-5.513249E-003	-2.301891E-003	-1.945372E-001	-8.119588E-001
748	7	-5.306003E-003	-2.203266E-003	-1.872321E-001	-7.774659E-001
748	8	-5.109347E-003	-2.200135E-003	-1.802075E-001	-7.763246E-001
748	9	-5.311103E-003	-2.250619E-003	-1.874112E-001	-7.941396E-001
749	1	-3.528985E-002	-5.986000E-003	-1.245294E-001	-2.112575E-001
749	2	-3.508458E-002	-5.986013E-003	-1.238008E-001	-2.112557E-001
749	3	-3.508365E-002	-6.023898E-003	-1.238010E-001	-2.125334E-001
749	4	-3.528932E-002	-6.022988E-003	-1.245262E-001	-2.125356E-001
749	5	-3.518687E-002	-5.986774E-003	-1.241642E-001	-2.112582E-001
749	6	-3.508312E-002	-6.004839E-003	-1.238004E-001	-2.118926E-001
749	7	-3.518682E-002	-6.023873E-003	-1.241646E-001	-2.125345E-001
749	8	-3.529040E-002	-6.004839E-003	-1.245278E-001	-2.118926E-001
749	9	-3.518685E-002	-6.004839E-003	-1.241645E-001	-2.118926E-001
750	1	-3.555751E-002	-6.349637E-003	-1.254733E-001	-2.240608E-001
750	2	-3.535000E-002	-6.349585E-003	-1.247394E-001	-2.240590E-001
750	3	-3.534983E-002	-6.386076E-003	-1.247396E-001	-2.253496E-001
750	4	-3.555770E-002	-6.386229E-003	-1.254729E-001	-2.253480E-001
750	5	-3.545405E-002	-6.349671E-003	-1.251072E-001	-2.240621E-001
750	6	-3.534964E-002	-6.367789E-003	-1.247395E-001	-2.247033E-001
750	7	-3.545367E-002	-6.386110E-003	-1.251071E-001	-2.253469E-001
750	8	-3.555784E-002	-6.367789E-003	-1.254721E-001	-2.247033E-001
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751	1	-3.575235E-002	-6.647661E-003	-1.261584E-001	-2.345754E-001
751	2	-3.560841E-002	-6.647691E-003	-1.256526E-001	-2.345773E-001
751	3	-3.560823E-002	-6.672930E-003	-1.256540E-001	-2.354696E-001
751	4	-3.575240E-002	-6.672877E-003	-1.261600E-001	-2.354679E-001
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752	1	-3.575549E-002	-6.898024E-003	-1.261725E-001	-2.434121E-001
752	2	-3.577178E-002	-6.898097E-003	-1.262259E-001	-2.434107E-001
752	3	-3.577152E-002	-6.895228E-003	-1.262269E-001	-2.433136E-001
752	4	-3.575601E-002	-6.895286E-003	-1.261689E-001	-2.433157E-001
752	5	-3.576300E-002	-6.898065E-003	-1.261974E-001	-2.434133E-001
752	6	-3.577169E-002	-6.896580E-003	-1.262255E-001	-2.433616E-001
752	7	-3.576353E-002	-6.895253E-003	-1.261972E-001	-2.433146E-001
752	8	-3.575575E-002	-6.896580E-003	-1.261697E-001	-2.433616E-001
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753	1	-3.542509E-002	-7.146355E-003	-1.250055E-001	-2.521761E-001
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753	3	-3.571194E-002	-7.095991E-003	-1.260149E-001	-2.503991E-001
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753	5	-3.556858E-002	-7.146477E-003	-1.255100E-001	-2.521768E-001
753	6	-3.571110E-002	-7.121172E-003	-1.260151E-001	-2.512047E-001
753	7	-3.556858E-002	-7.096023E-003	-1.255102E-001	-2.504001E-001
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754	1	-3.478112E-002	-7.476560E-003	-1.227315E-001	-2.638289E-001
754	2	-3.530696E-002	-7.476623E-003	-1.245897E-001	-2.638269E-001
754	3	-3.530715E-002	-7.384327E-003	-1.245891E-001	-2.605662E-001
754	4	-3.478157E-002	-7.384152E-003	-1.227338E-001	-2.605682E-001
754	5	-3.504450E-002	-7.476592E-003	-1.236600E-001	-2.638301E-001
754	6	-3.530706E-002	-7.430387E-003	-1.245896E-001	-2.621954E-001
754	7	-3.504450E-002	-7.384240E-003	-1.236600E-001	-2.605672E-001
754	8	-3.478252E-002	-7.430387E-003	-1.227362E-001	-2.621954E-001
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755	1	-3.340010E-002	-8.062219E-003	-1.178883E-001	-2.844925E-001
755	2	-3.454863E-002	-8.062371E-003	-1.218838E-001	-2.844943E-001
755	3	-3.454031E-002	-7.863435E-003	-1.218840E-001	-2.774811E-001
755	4	-3.340903E-002	-7.863586E-003	-1.178892E-001	-2.774793E-001
755	5	-3.397435E-002	-8.062258E-003	-1.198869E-001	-2.844931E-001
755	6	-3.454071E-002	-7.962825E-003	-1.218838E-001	-2.809854E-001
755	7	-3.397423E-002	-7.863554E-003	-1.198852E-001	-2.774782E-001
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755	9	-3.397441E-002	-7.962825E-003	-1.198840E-001	-2.809854E-001
756	1	-3.412861E-002	-8.514588E-003	-1.204321E-001	-3.004537E-001
756	2	-3.335622E-002	-8.514629E-003	-1.177039E-001	-3.004575E-001
756	3	-3.335656E-002	-8.650268E-003	-1.177039E-001	-3.052411E-001
756	4	-3.412934E-002	-8.650318E-003	-1.204387E-001	-3.052457E-001
756	5	-3.374212E-002	-8.514597E-003	-1.190669E-001	-3.004546E-001
756	6	-3.335630E-002	-8.582510E-003	-1.177031E-001	-3.028515E-001
756	7	-3.374212E-002	-8.650294E-003	-1.190669E-001	-3.052415E-001
756	8	-3.412933E-002	-8.582431E-003	-1.204330E-001	-3.028493E-001
756	9	-3.374212E-002	-8.582433E-003	-1.190669E-001	-3.028586E-001
757	1	+3.580654E-005	-2.029278E-004	+1.263384E-002	-7.160767E-001
757	2	-2.943776E-002	-2.029290E-002	-1.038772E-001	-7.160769E-001
757	3	-2.943778E-002	-1.449127E-002	-1.038775E-001	-5.113558E-001
757	4	+3.580277E-005	-1.449129E-004	+1.263478E-002	-5.113539E-001
757	5	-1.292893E-004	-2.829290E-004	-4.562235E-002	-7.160746E-001
757	6	-2.943779E-002	-1.739210E-002	-1.038786E-001	-6.137142E-001
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758	1	-5.142540E-003	-2.453665E-003	-1.014569E-001	-8.657953E-001
758	2	-5.479408E-003	-2.537408E-003	-1.933431E-001	-8.953548E-001
758	3	-5.469786E-003	-2.458029E-003	-1.930084E-001	-8.673317E-001
758	4	-5.132989E-003	-2.373857E-003	-1.011187E-001	-8.376349E-001
758	5	-5.311438E-003	-2.495657E-003	-1.874167E-001	-8.806297E-001
758	6	-5.474410E-003	-2.497753E-003	-1.931739E-001	-8.813546E-001
758	7	-5.301663E-003	-2.415997E-003	-1.870745E-001	-8.525118E-001
758	8	-5.137587E-003	-2.413810E-003	-1.812866E-001	-8.517323E-001
758	9	-5.306594E-003	-2.455867E-003	-1.872426E-001	-8.665806E-001
759	1	-3.492994E-003	-3.394398E-003	-1.232522E-001	-1.197741E+000
759	2	-3.032072E-003	-3.326603E-003	-1.069890E-001	-1.173813E+000
759	3	-3.032059E-003	-3.529068E-003	-1.069888E-001	-1.245268E+000
759	4	-3.492983E-003	-3.689760E-003	-1.232522E-001	-1.273736E+000
759	5	-3.255411E-003	-3.359442E-003	-1.148707E-001	-1.185421E+000
759	6	-3.032133E-003	-3.427807E-003	-1.069902E-001	-1.205537E+000
759	7	-3.255411E-003	-3.568142E-003	-1.148707E-001	-1.259054E+000
759	8	-3.493031E-003	-3.582117E-003	-1.232507E-001	-1.235744E+000
759	9	-3.255411E-003	-3.463801E-003	-1.148707E-001	-1.222233E+000
760	1	-4.694828E-003	-3.120947E-003	-1.656626E-001	-1.101259E+000

760	2	-4.662975E-003	-3.115236E-003	-1.645395E-001	-1.099227E+000
760	3	-4.663078E-003	-3.126754E-003	-1.645402E-001	-1.103300E+000
760	4	-4.694663E-003	-3.133332E-003	-1.656597E-001	-1.105630E+000
760	5	-4.678356E-003	-3.117966E-003	-1.650765E-001	-1.100191E+000
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760	9	-4.678356E-003	-3.123957E-003	-1.650765E-001	-1.102318E+000
761	1	-5.015431E-005	-1.342424E-005	-1.769654E-001	-4.736870E-001
761	2	-5.346946E-003	-1.425236E-003	-1.886738E-001	-5.028962E-001
761	3	-5.347112E-003	-1.351225E-003	-1.886729E-001	-4.768020E-001
761	4	-5.263660E-003	-1.330893E-003	-1.769605E-001	-4.474546E-001
761	5	-5.181332E-003	-1.383930E-003	-1.828241E-001	-4.883431E-001
761	6	-5.346917E-003	-1.388258E-003	-1.886727E-001	-4.898511E-001
761	7	-5.181332E-003	-1.389729E-003	-1.828241E-001	-4.621475E-001
761	8	-5.015122E-005	-1.385204E-005	-1.769638E-001	-4.605616E-001
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762	1	-5.163249E-003	-1.584641E-003	-1.821844E-001	-5.591593E-001
762	2	-5.693524E-003	-1.694540E-003	-1.977273E-001	-5.979270E-001
762	3	-5.680487E-003	-1.594812E-003	-1.976172E-001	-5.627414E-001
762	4	-5.168030E-003	-1.484663E-003	-1.820787E-001	-5.238761E-001
762	5	-5.383844E-003	-1.639656E-003	-1.899617E-001	-5.785577E-001
762	6	-5.601849E-003	-1.644746E-003	-1.976634E-001	-5.803469E-001
762	7	-5.380502E-003	-1.539739E-003	-1.898562E-001	-5.433220E-001
762	8	-5.161699E-003	-1.534606E-003	-1.821390E-001	-5.415072E-001
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763	1	-2.832268E-003	-3.583575E-003	-9.993829E-002	-1.264493E+000
763	2	-1.947377E-003	-3.453390E-003	-6.871632E-002	-1.218551E+000
763	3	-1.947407E-003	-3.873831E-003	-6.871591E-002	-1.366906E+000
763	4	-2.832230E-003	-4.028167E-003	-9.993848E-002	-1.421368E+000
763	5	-2.377357E-003	-3.516670E-003	-8.388751E-002	-1.240084E+000
763	6	-1.947337E-003	-3.663606E-003	-6.871237E-002	-1.292732E+000
763	7	-2.377396E-003	-3.948801E-003	-8.388919E-002	-1.393374E+000
763	8	-2.832215E-003	-3.805838E-003	-9.993827E-002	-1.342930E+000
763	9	-2.377398E-003	-3.732740E-003	-8.388856E-002	-1.317131E+000
764	1	-5.277331E-003	-1.811913E-003	-1.862132E-001	-6.393537E-001
764	2	-5.825127E-003	-1.949204E-003	-2.055503E-001	-6.877864E-001
764	3	-5.814189E-003	-1.823797E-003	-2.051508E-001	-6.435292E-001
764	4	-5.269225E-003	-1.687353E-003	-1.859291E-001	-5.954839E-001
764	5	-5.551067E-003	-1.880525E-003	-1.958776E-001	-6.635545E-001
764	6	-5.819598E-003	-1.886284E-003	-2.053550E-001	-6.655989E-001
764	7	-5.541428E-003	-1.755530E-003	-1.955329E-001	-6.194533E-001
764	8	-5.273332E-003	-1.749475E-003	-1.860658E-001	-6.173058E-001
764	9	-5.546301E-003	-1.817862E-003	-1.957864E-001	-6.414302E-001
765	1	-5.481783E-003	-2.028001E-003	-1.934210E-001	-7.155902E-001
765	2	-5.984173E-003	-2.153196E-003	-2.111598E-001	-7.597709E-001
765	3	-5.973853E-003	-2.037467E-003	-2.107912E-001	-7.189372E-001
765	4	-5.474251E-003	-1.913325E-003	-1.931685E-001	-6.751454E-001
765	5	-5.732426E-003	-2.090491E-003	-2.022709E-001	-7.376335E-001
765	6	-5.979081E-003	-2.095092E-003	-2.109772E-001	-7.392828E-001
765	7	-5.723554E-003	-1.975284E-003	-2.019628E-001	-6.969965E-001
765	8	-5.477821E-003	-1.970507E-003	-1.932964E-001	-6.953174E-001
765	9	-5.727948E-003	-2.032694E-003	-2.021166E-001	-7.172492E-001
766	1	-5.326222E-003	-2.958818E-003	-1.879403E-001	-1.044031E+000
766	2	-5.527843E-003	-3.082771E-003	-1.958269E-001	-1.059558E+000
766	3	-5.527283E-003	-2.936829E-003	-1.958322E-001	-1.036013E+000
766	4	-5.326398E-003	-2.886531E-003	-1.879412E-001	-1.018542E+000
766	5	-5.430724E-003	-2.981644E-003	-1.916243E-001	-1.052110E+000
766	6	-5.527071E-003	-2.969431E-003	-1.958281E-001	-1.047779E+000
766	7	-5.430645E-003	-2.912336E-003	-1.916242E-001	-1.027622E+000

766	8	-5.326202E-003	-2.922706E-003	-1.879404E-001	-1.031298E+000
766	9	-5.430661E-003	-2.946963E-003	-1.916263E-001	-1.039868E+000
767	1	-5.684211E-003	-2.249219E-003	-1.977548E-001	-7.936720E-001
767	2	-6.059403E-003	-2.362903E-003	-2.138103E-001	-8.337682E-001
767	3	-6.049826E-003	-2.256693E-003	-2.134722E-001	-7.963936E-001
767	4	-5.594814E-003	-2.142841E-003	-1.974127E-001	-7.561311E-001
767	5	-5.832223E-003	-2.306181E-003	-2.057968E-001	-8.137382E-001
767	6	-6.054712E-003	-2.309806E-003	-2.136432E-001	-8.150207E-001
767	7	-5.822495E-003	-2.199849E-003	-2.054586E-001	-7.762284E-001
767	8	-5.599657E-003	-2.196111E-003	-1.975878E-001	-7.749814E-001
767	9	-5.827414E-003	-2.253030E-003	-2.056270E-001	-7.949948E-001
768	1	-5.647744E-003	-2.478096E-003	-1.992842E-001	-8.743961E-001
768	2	-6.040767E-003	-2.576437E-003	-2.131496E-001	-9.091169E-001
768	3	-6.029407E-003	-2.483365E-003	-2.127588E-001	-8.762789E-001
768	4	-5.636318E-003	-2.384590E-003	-1.988861E-001	-8.414043E-001
768	5	-5.844645E-003	-2.527371E-003	-2.062347E-001	-8.917904E-001
768	6	-6.035123E-003	-2.529889E-003	-2.129588E-001	-8.927037E-001
768	7	-5.833359E-003	-2.434086E-003	-2.058348E-001	-8.588852E-001
768	8	-5.641994E-003	-2.431283E-003	-1.990027E-001	-8.579254E-001
768	9	-5.838994E-003	-2.480719E-003	-2.060308E-001	-8.753401E-001
769	1	-5.592850E-003	-2.715040E-003	-1.973468E-001	-9.580150E-001
769	2	-5.989318E-003	-2.794589E-003	-2.085204E-001	-9.860635E-001
769	3	-5.898512E-003	-2.718799E-003	-2.081344E-001	-9.593565E-001
769	4	-5.583491E-003	-2.640847E-003	-1.970137E-001	-9.315626E-001
769	5	-5.758787E-003	-2.754722E-003	-2.029239E-001	-9.720152E-001
769	6	-5.984088E-003	-2.756635E-003	-2.083243E-001	-9.726778E-001
769	7	-5.740592E-003	-2.679375E-003	-2.025598E-001	-9.454411E-001
769	8	-5.587978E-003	-2.677457E-003	-1.971807E-001	-9.447581E-001
769	9	-5.745640E-003	-2.716924E-003	-2.027407E-001	-9.586967E-001
770	1	-4.631118E-003	-3.443287E-003	-1.634153E-001	-1.214987E+000
770	2	-4.455322E-003	-3.411033E-003	-1.572103E-001	-1.203620E+000
770	3	-4.455321E-003	-3.482031E-003	-1.572088E-001	-1.228659E+000
770	4	-4.631221E-003	-3.519128E-003	-1.634133E-001	-1.241751E+000
770	5	-4.540312E-003	-3.426625E-003	-1.602868E-001	-1.209115E+000
770	6	-4.455326E-003	-3.446524E-003	-1.572091E-001	-1.216144E+000
770	7	-4.540339E-003	-3.580017E-003	-1.602089E-001	-1.235003E+000
770	8	-4.631169E-003	-3.481247E-003	-1.634140E-001	-1.228383E+000
770	9	-4.540281E-003	-3.463316E-003	-1.602095E-001	-1.222054E+000
771	1	-1.553219E-003	-3.699524E-003	-5.480658E-002	-1.305408E+000
771	2	+2.136965E-004	-3.441239E-003	+7.541884E-003	-1.214264E+000
771	3	+2.137248E-004	-4.336905E-003	+7.540947E-003	-1.530304E+000
771	4	-1.553226E-003	-4.644033E-003	-5.480723E-002	-1.638697E+000
771	5	-6.462925E-004	-3.566896E-003	-2.280651E-002	-1.258622E+000
771	6	+2.137628E-004	-3.889040E-003	+7.541323E-003	-1.372282E+000
771	7	-6.462925E-004	-4.486431E-003	-2.280651E-002	-1.583073E+000
771	8	-1.553246E-003	-4.171775E-003	-5.480934E-002	-1.472040E+000
771	9	-6.462925E-004	-4.026658E-003	-2.280651E-002	-1.420842E+000
772	1	-5.490777E-003	-1.531280E-003	-1.937441E-001	-5.403413E-001
772	2	-6.154909E-003	-1.697373E-003	-2.171845E-001	-5.989426E-001
772	3	-6.146070E-003	-1.547350E-003	-2.168989E-001	-5.459957E-001
772	4	-5.489733E-003	-1.384195E-003	-1.937107E-001	-4.883976E-001
772	5	-5.821824E-003	-1.614072E-003	-2.054262E-001	-5.695391E-001
772	6	-6.150863E-003	-1.621933E-003	-2.170434E-001	-5.723357E-001
772	7	-5.817040E-003	-1.465428E-003	-2.052612E-001	-5.170840E-001
772	8	-5.490290E-003	-1.457346E-003	-1.937320E-001	-5.142254E-001
772	9	-5.819394E-003	-1.539370E-003	-2.053384E-001	-5.431814E-001
773	1	-5.757280E-003	-1.771803E-003	-2.031503E-001	-6.251927E-001
773	2	-6.369912E-003	-1.925097E-003	-2.247648E-001	-6.793800E-001
773	3	-6.361697E-003	-1.785028E-003	-2.244814E-001	-6.301566E-001
773	4	-5.752607E-003	-1.633909E-003	-2.029876E-001	-5.765387E-001

773	5	-6.063020E-003	-1.848317E-003	-2.139346E-001	-6.521090E-001
773	6	-6.365702E-003	-1.855267E-003	-2.246227E-001	-6.546470E-001
773	7	-6.056751E-003	-1.709738E-003	-2.137897E-001	-6.033109E-001
773	8	-5.754895E-003	-1.702710E-003	-2.030630E-001	-6.008148E-001
773	9	-6.059704E-003	-1.778848E-003	-2.138254E-001	-6.276798E-001
774	1	-5.988306E-003	-2.006407E-003	-2.113028E-001	-7.079781E-001
774	2	-6.542653E-003	-2.144225E-003	-2.308612E-001	-7.566170E-001
774	3	-6.534620E-003	-2.017361E-003	-2.305797E-001	-7.110441E-001
774	4	-5.976896E-003	-1.877262E-003	-2.108929E-001	-6.623982E-001
774	5	-6.266879E-003	-2.075666E-003	-2.211363E-001	-7.324215E-001
774	6	-6.538670E-003	-2.080963E-003	-2.307225E-001	-7.342727E-001
774	7	-6.257208E-003	-1.947648E-003	-2.207904E-001	-6.872461E-001
774	8	-5.982371E-003	-1.942073E-003	-2.110960E-001	-6.852475E-001
774	9	-6.262105E-003	-2.011844E-003	-2.209623E-001	-7.099094E-001
775	1	-5.576243E-003	-3.314733E-003	-1.967629E-001	-1.169633E+000
775	2	-5.717273E-003	-3.345352E-003	-2.017366E-001	-1.180433E+000
775	3	-5.717273E-003	-3.293846E-003	-2.017381E-001	-1.162273E+000
775	4	-5.576179E-003	-3.259388E-003	-1.967632E-001	-1.150100E+000
775	5	-5.649399E-003	-3.330613E-003	-1.993428E-001	-1.175233E+000
775	6	-5.717330E-003	-3.319622E-003	-2.017398E-001	-1.171356E+000
775	7	-5.649399E-003	-3.277274E-003	-1.993428E-001	-1.156419E+000
775	8	-5.576199E-003	-3.287050E-003	-1.967608E-001	-1.159877E+000
775	9	-5.649399E-003	-3.303947E-003	-1.993428E-001	-1.165829E+000
776	1	-6.137451E-003	-2.246518E-003	-2.165600E-001	-7.927062E-001
776	2	-6.650308E-003	-2.375004E-003	-2.346622E-001	-8.380247E-001
776	3	-6.636200E-003	-2.255602E-003	-2.341705E-001	-7.958979E-001
776	4	-6.126176E-003	-2.127692E-003	-2.161661E-001	-7.507963E-001
776	5	-6.394042E-003	-2.310794E-003	-2.256169E-001	-8.153840E-001
776	6	-6.643202E-003	-2.315110E-003	-2.344097E-001	-8.169035E-001
776	7	-6.381203E-003	-2.191707E-003	-2.251668E-001	-7.733642E-001
776	8	-6.131603E-003	-2.187006E-003	-2.163573E-001	-7.716995E-001
776	9	-6.387662E-003	-2.251892E-003	-2.253898E-001	-7.943113E-001
777	1	-4.367434E-003	-3.825630E-003	-1.541070E-001	-1.349911E+000
777	2	-3.955770E-003	-3.750279E-003	-1.395825E-001	-1.323315E+000
777	3	-3.955739E-003	-3.931033E-003	-1.395831E-001	-1.387105E+000
777	4	-4.367312E-003	-4.017648E-003	-1.541034E-001	-1.417652E+000
777	5	-4.155279E-003	-3.786017E-003	-1.466246E-001	-1.336219E+000
777	6	-3.955755E-003	-3.840666E-003	-1.395829E-001	-1.355219E+000
777	7	-4.155279E-003	-3.973016E-003	-1.466246E-001	-1.401917E+000
777	8	-4.367296E-003	-3.921648E-003	-1.541037E-001	-1.383787E+000
777	9	-4.155279E-003	-3.879943E-003	-1.466246E-001	-1.369867E+000
778	1	-6.281812E-003	-2.498070E-003	-2.188331E-001	-8.814464E-001
778	2	-6.668567E-003	-2.615233E-003	-2.353022E-001	-9.228130E-001
778	3	-6.652691E-003	-2.505318E-003	-2.347474E-001	-8.840181E-001
778	4	-6.191205E-003	-2.390182E-003	-2.184657E-001	-8.434004E-001
778	5	-6.434448E-003	-2.556496E-003	-2.270384E-001	-9.020743E-001
778	6	-6.660486E-003	-2.559963E-003	-2.350186E-001	-9.033170E-001
778	7	-6.421187E-003	-2.447563E-003	-2.265750E-001	-8.636522E-001
778	8	-6.196720E-003	-2.443853E-003	-2.186537E-001	-8.623336E-001
778	9	-6.427838E-003	-2.501733E-003	-2.268110E-001	-8.827478E-001
779	1	-6.173937E-003	-2.764014E-003	-2.178556E-001	-9.752991E-001
779	2	-6.568979E-003	-2.862672E-003	-2.317929E-001	-1.010131E+000
779	3	-6.555189E-003	-2.768809E-003	-2.313011E-001	-9.770011E-001
779	4	-6.162606E-003	-2.671036E-003	-2.174479E-001	-9.425074E-001
779	5	-6.370977E-003	-2.813229E-003	-2.248090E-001	-9.926668E-001
779	6	-6.561963E-003	-2.815633E-003	-2.315429E-001	-9.935151E-001
779	7	-6.358364E-003	-2.719819E-003	-2.243612E-001	-9.596978E-001
779	8	-6.168290E-003	-2.717411E-003	-2.176546E-001	-9.588631E-001
779	9	-6.364788E-003	-2.766422E-003	-2.245806E-001	-9.761397E-001
780	1	+2.877878E-004	-7.547314E-003	+1.015409E-002	-2.663127E+000

780	2	-8.028079E-006	-7.707877E-005	-2.832795E-002	-2.719783E+000
780	3	-8.028082E-006	-7.111082E-005	-2.832646E-002	-2.509484E+000
780	4	+2.877308E-004	-6.920983E-003	+1.015297E-002	-2.442124E+000
780	5	-2.648739E-004	-7.454166E-003	-9.568237E-003	-2.692157E+000
780	6	-8.027920E-006	-7.409892E-005	-2.832721E-002	-2.614640E+000
780	7	-2.866406E-004	-7.420232E-003	-9.568338E-003	-2.476627E+000
780	8	+2.877434E-004	-7.234096E-003	+1.015324E-002	-2.552619E+000
780	9	-2.821317E-004	-7.621509E-003	-9.568033E-003	-2.584403E+000
781	1	-6.031623E-003	-3.043004E-003	-2.128379E-001	-1.073755E+000
781	2	-6.321686E-003	-3.115615E-003	-2.230674E-001	-1.099363E+000
781	3	-6.309413E-003	-3.046108E-003	-2.226304E-001	-1.074852E+000
781	4	-6.021294E-003	-2.974086E-003	-2.124644E-001	-1.049420E+000
781	5	-6.176609E-003	-3.079225E-003	-2.179469E-001	-1.086541E+000
781	6	-6.315613E-003	-3.080693E-003	-2.228481E-001	-1.087069E+000
781	7	-6.165152E-003	-3.010100E-003	-2.175412E-001	-1.062147E+000
781	8	-6.026363E-003	-3.008403E-003	-2.126410E-001	-1.061559E+000
781	9	-6.170873E-003	-3.044559E-003	-2.177426E-001	-1.074296E+000
782	1	-3.320593E-002	-3.761154E-004	-1.171754E-001	-1.327198E-002
782	2	-3.320318E-002	-3.760761E-004	-1.171654E-001	-1.327896E-002
782	3	-3.320374E-002	-3.764274E-004	-1.171657E-001	-1.328343E-002
782	4	-3.320602E-002	-3.764343E-004	-1.171725E-001	-1.328439E-002
782	5	-3.320465E-002	-3.761837E-004	-1.171696E-001	-1.327448E-002
782	6	-3.320374E-002	-3.763078E-004	-1.171656E-001	-1.327809E-002
782	7	-3.320465E-002	-3.764606E-004	-1.171696E-001	-1.328524E-002
782	8	-3.320564E-002	-3.763078E-004	-1.171723E-001	-1.327809E-002
782	9	-3.320465E-002	-3.763078E-004	-1.171696E-001	-1.327809E-002
783	1	-3.321632E-002	-1.122708E-003	-1.172101E-001	-3.961767E-002
783	2	-3.320721E-002	-1.122736E-003	-1.171786E-001	-3.961617E-002
783	3	-3.320747E-002	-1.124209E-003	-1.171789E-001	-3.967245E-002
783	4	-3.321582E-002	-1.124217E-003	-1.172106E-001	-3.966961E-002
783	5	-3.321208E-002	-1.122784E-003	-1.171935E-001	-3.961961E-002
783	6	-3.320742E-002	-1.123503E-003	-1.171788E-001	-3.964499E-002
783	7	-3.321135E-002	-1.124243E-003	-1.171942E-001	-3.967426E-002
783	8	-3.321641E-002	-1.123503E-003	-1.172091E-001	-3.964499E-002
783	9	-3.321191E-002	-1.123503E-003	-1.171939E-001	-3.964499E-002
784	1	-3.323747E-002	-1.857586E-003	-1.172861E-001	-6.554801E-002
784	2	-3.321977E-002	-1.857603E-003	-1.172223E-001	-6.554700E-002
784	3	-3.321998E-002	-1.860609E-003	-1.172222E-001	-6.565700E-002
784	4	-3.323755E-002	-1.860617E-003	-1.172851E-001	-6.565421E-002
784	5	-3.322924E-002	-1.857662E-003	-1.172532E-001	-6.555044E-002
784	6	-3.321970E-002	-1.859126E-003	-1.172236E-001	-6.560327E-002
784	7	-3.322826E-002	-1.860643E-003	-1.172548E-001	-6.565804E-002
784	8	-3.323765E-002	-1.859126E-003	-1.172868E-001	-6.560327E-002
784	9	-3.322835E-002	-1.859126E-003	-1.172545E-001	-6.560327E-002
785	1	-3.327801E-002	-2.572766E-003	-1.174298E-001	-9.078605E-002
785	2	-3.324487E-002	-2.572734E-003	-1.173125E-001	-9.078503E-002
785	3	-3.324476E-002	-2.578698E-003	-1.173098E-001	-9.099306E-002
785	4	-3.327848E-002	-2.578641E-003	-1.174322E-001	-9.099414E-002
785	5	-3.326153E-002	-2.572842E-003	-1.173692E-001	-9.078848E-002
785	6	-3.324515E-002	-2.575719E-003	-1.173128E-001	-9.088992E-002
785	7	-3.326188E-002	-2.578666E-003	-1.173692E-001	-9.099493E-002
785	8	-3.327858E-002	-2.575719E-003	-1.174307E-001	-9.088992E-002
785	9	-3.326149E-002	-2.575719E-003	-1.173717E-001	-9.088992E-002
786	1	-3.335207E-002	-3.260930E-003	-1.176917E-001	-1.150677E-001
786	2	-3.329265E-002	-3.260956E-003	-1.174802E-001	-1.150680E-001
786	3	-3.329206E-002	-3.271510E-003	-1.174777E-001	-1.154420E-001
786	4	-3.335255E-002	-3.271536E-003	-1.176929E-001	-1.154423E-001
786	5	-3.332228E-002	-3.260945E-003	-1.175853E-001	-1.150678E-001
786	6	-3.329189E-002	-3.266234E-003	-1.174772E-001	-1.152563E-001
786	7	-3.332252E-002	-3.271594E-003	-1.175845E-001	-1.154435E-001

786	8	-3.335198E-002	-3.266239E-003	-1.176913E-001	-1.152562E-001
786	9	-3.332247E-002	-3.266204E-003	-1.175843E-001	-1.152552E-001
787	1	-3.347417E-002	-3.915174E-003	-1.181169E-001	-1.381547E-001
787	2	-3.337542E-002	-3.915197E-003	-1.177721E-001	-1.381567E-001
787	3	-3.337574E-002	-3.932375E-003	-1.177724E-001	-1.387615E-001
787	4	-3.347476E-002	-3.932389E-003	-1.181185E-001	-1.387628E-001
787	5	-3.342439E-002	-3.915208E-003	-1.179460E-001	-1.381557E-001
787	6	-3.337552E-002	-3.923791E-003	-1.177722E-001	-1.384585E-001
787	7	-3.342439E-002	-3.932471E-003	-1.179460E-001	-1.387635E-001
787	8	-3.347399E-002	-3.923791E-003	-1.181187E-001	-1.384585E-001
787	9	-3.342439E-002	-3.923791E-003	-1.179460E-001	-1.384585E-001
788	1	-3.365659E-002	-4.527753E-003	-1.187672E-001	-1.597717E-001
788	2	-3.350975E-002	-4.527765E-003	-1.182428E-001	-1.597703E-001
788	3	-3.350865E-002	-4.553674E-003	-1.182427E-001	-1.606865E-001
788	4	-3.365645E-002	-4.553691E-003	-1.187656E-001	-1.606879E-001
788	5	-3.358315E-002	-4.527742E-003	-1.185047E-001	-1.597727E-001
788	6	-3.358893E-002	-4.540771E-003	-1.182454E-001	-1.602293E-001
788	7	-3.358315E-002	-4.553772E-003	-1.185047E-001	-1.606885E-001
788	8	-3.365675E-002	-4.540771E-003	-1.187654E-001	-1.602293E-001
788	9	-3.358315E-002	-4.540771E-003	-1.185047E-001	-1.602293E-001
789	1	-3.391264E-002	-5.091279E-003	-1.196678E-001	-1.796591E-001
789	2	-3.370028E-002	-5.091301E-003	-1.189464E-001	-1.796577E-001
789	3	-3.370047E-002	-5.127165E-003	-1.189478E-001	-1.809230E-001
789	4	-3.391212E-002	-5.127185E-003	-1.196666E-001	-1.809244E-001
789	5	-3.381029E-002	-5.091312E-003	-1.193070E-001	-1.796568E-001
789	6	-3.370878E-002	-5.109240E-003	-1.189482E-001	-1.802901E-001
789	7	-3.381029E-002	-5.127265E-003	-1.193070E-001	-1.809250E-001
789	8	-3.391320E-002	-5.109248E-003	-1.196662E-001	-1.802901E-001
789	9	-3.381029E-002	-5.109240E-003	-1.193070E-001	-1.802901E-001
790	1	-3.424313E-002	-5.597117E-003	-1.208344E-001	-1.975048E-001
790	2	-3.398035E-002	-5.597139E-003	-1.199878E-001	-1.975072E-001
790	3	-3.398066E-002	-5.643180E-003	-1.199880E-001	-1.991339E-001
790	4	-3.424381E-002	-5.643203E-003	-1.208361E-001	-1.991316E-001
790	5	-3.411183E-002	-5.597091E-003	-1.203718E-001	-1.975063E-001
790	6	-3.398046E-002	-5.620148E-003	-1.199879E-001	-1.983186E-001
790	7	-3.411188E-002	-5.643306E-003	-1.203705E-001	-1.991360E-001
790	8	-3.424380E-002	-5.620148E-003	-1.208353E-001	-1.983186E-001
790	9	-3.411185E-002	-5.620148E-003	-1.203706E-001	-1.983186E-001
791	1	-3.463402E-002	-6.036063E-003	-1.222138E-001	-2.129962E-001
791	2	-3.432717E-002	-6.036133E-003	-1.211284E-001	-2.129986E-001
791	3	-3.432624E-002	-6.090105E-003	-1.211285E-001	-2.149062E-001
791	4	-3.463442E-002	-6.090277E-003	-1.222162E-001	-2.149079E-001
791	5	-3.448025E-002	-6.063103E-003	-1.216706E-001	-2.129972E-001
791	6	-3.432570E-002	-6.063170E-003	-1.211277E-001	-2.139522E-001
791	7	-3.448039E-002	-6.090293E-003	-1.216708E-001	-2.149084E-001
791	8	-3.463504E-002	-6.063170E-003	-1.222160E-001	-2.139522E-001
791	9	-3.448020E-002	-6.063170E-003	-1.216708E-001	-2.139522E-001
792	1	-3.504362E-002	-6.399521E-003	-1.236585E-001	-2.258232E-001
792	2	-3.472551E-002	-6.399482E-003	-1.225363E-001	-2.258212E-001
792	3	-3.472529E-002	-6.455331E-003	-1.225365E-001	-2.277896E-001
792	4	-3.504332E-002	-6.455303E-003	-1.236581E-001	-2.277914E-001
792	5	-3.488446E-002	-6.399553E-003	-1.230974E-001	-2.258203E-001
792	6	-3.472515E-002	-6.427446E-003	-1.225364E-001	-2.268048E-001
792	7	-3.488436E-002	-6.455403E-003	-1.230973E-001	-2.277919E-001
792	8	-3.504347E-002	-6.427446E-003	-1.236593E-001	-2.268048E-001
792	9	-3.488430E-002	-6.427446E-003	-1.230972E-001	-2.268048E-001
793	1	-3.537177E-002	-6.682816E-003	-1.248183E-001	-2.358197E-001
793	2	-3.512542E-002	-6.682951E-003	-1.239490E-001	-2.358182E-001
793	3	-3.512522E-002	-6.726154E-003	-1.239482E-001	-2.373472E-001
793	4	-3.537134E-002	-6.726130E-003	-1.248161E-001	-2.373454E-001

793	5	-3.524879E-002	-6.682837E-003	-1.243836E-001	-2.358207E-001
793	6	-3.512532E-002	-6.704524E-003	-1.239479E-001	-2.365820E-001
793	7	-3.524879E-002	-6.726228E-003	-1.243836E-001	-2.373496E-001
793	8	-3.537155E-002	-6.704524E-003	-1.248188E-001	-2.365820E-001
793	9	-3.524879E-002	-6.704524E-003	-1.243836E-001	-2.365820E-001
794	1	-3.544220E-002	-6.895589E-003	-1.250627E-001	-2.433235E-001
794	2	-3.541254E-002	-6.895537E-003	-1.249585E-001	-2.433257E-001
794	3	-3.541228E-002	-6.900727E-003	-1.249595E-001	-2.435068E-001
794	4	-3.544224E-002	-6.900707E-003	-1.250629E-001	-2.435051E-001
794	5	-3.542674E-002	-6.895625E-003	-1.250112E-001	-2.433244E-001
794	6	-3.541246E-002	-6.898141E-003	-1.249600E-001	-2.434168E-001
794	7	-3.542675E-002	-6.900804E-003	-1.250108E-001	-2.435092E-001
794	8	-3.544199E-002	-6.898141E-003	-1.250638E-001	-2.434168E-001
794	9	-3.542710E-002	-6.898141E-003	-1.250111E-001	-2.434168E-001
795	1	-3.503045E-002	-7.079338E-003	-1.236134E-001	-2.498129E-001
795	2	-3.539356E-002	-7.079479E-003	-1.248927E-001	-2.498114E-001
795	3	-3.539343E-002	-7.015634E-003	-1.248928E-001	-2.475604E-001
795	4	-3.503048E-002	-7.015618E-003	-1.236130E-001	-2.475589E-001
795	5	-3.521247E-002	-7.079448E-003	-1.242525E-001	-2.498100E-001
795	6	-3.539265E-002	-7.047439E-003	-1.248928E-001	-2.486860E-001
795	7	-3.521204E-002	-7.015713E-003	-1.242520E-001	-2.475630E-001
795	8	-3.503070E-002	-7.047439E-003	-1.236139E-001	-2.486860E-001
795	9	-3.521190E-002	-7.047439E-003	-1.242526E-001	-2.486860E-001
796	1	-3.392241E-002	-7.347062E-003	-1.197012E-001	-2.592586E-001
796	2	-3.484406E-002	-7.347139E-003	-1.229539E-001	-2.592565E-001
796	3	-3.484375E-002	-7.184881E-003	-1.229533E-001	-2.535350E-001
796	4	-3.392121E-002	-7.184988E-003	-1.197017E-001	-2.535374E-001
796	5	-3.438345E-002	-7.347093E-003	-1.213286E-001	-2.592595E-001
796	6	-3.484447E-002	-7.266059E-003	-1.229538E-001	-2.563975E-001
796	7	-3.438345E-002	-7.184994E-003	-1.213286E-001	-2.535376E-001
796	8	-3.392312E-002	-7.266059E-003	-1.197022E-001	-2.563975E-001
796	9	-3.438345E-002	-7.266059E-003	-1.213286E-001	-2.563975E-001
797	1	-3.245443E-002	-7.804763E-003	-1.145214E-001	-2.754800E-001
797	2	-3.361887E-002	-7.804920E-003	-1.186318E-001	-2.754097E-001
797	3	-3.361989E-002	-7.680279E-003	-1.186317E-001	-2.681909E-001
797	4	-3.245419E-002	-7.680241E-003	-1.145204E-001	-2.681897E-001
797	5	-3.303633E-002	-7.804793E-003	-1.165771E-001	-2.754089E-001
797	6	-3.361895E-002	-7.702518E-003	-1.186318E-001	-2.717983E-001
797	7	-3.303666E-002	-7.680364E-003	-1.165762E-001	-2.681936E-001
797	8	-3.245396E-002	-7.702518E-003	-1.145209E-001	-2.717983E-001
797	9	-3.303614E-002	-7.702518E-003	-1.165749E-001	-2.717983E-001
798	1	-3.106456E-002	-8.642795E-003	-1.096178E-001	-3.049815E-001
798	2	-3.212962E-002	-8.642858E-003	-1.133761E-001	-3.049794E-001
798	3	-3.212944E-002	-8.455807E-003	-1.133761E-001	-2.983814E-001
798	4	-3.106481E-002	-8.455805E-003	-1.096183E-001	-2.983842E-001
798	5	-3.159732E-002	-8.642828E-003	-1.114972E-001	-3.049824E-001
798	6	-3.212918E-002	-8.549320E-003	-1.133754E-001	-3.016818E-001
798	7	-3.159732E-002	-8.455926E-003	-1.114972E-001	-2.983842E-001
798	8	-3.106528E-002	-8.549320E-003	-1.096187E-001	-3.016818E-001
798	9	-3.159732E-002	-8.549320E-003	-1.114972E-001	-3.016818E-001
799	1	-1.193674E-004	-1.322300E-004	-4.212013E-002	-4.666051E-001
799	2	-2.849980E-002	-1.322307E-002	-1.005676E-001	-4.666067E-001
799	3	-2.849987E-002	-1.030905E-002	-1.005658E-001	-3.637742E-001
799	4	-1.193618E-004	-1.030906E-004	-4.211966E-002	-3.637734E-001
799	5	-2.134470E-002	-1.396811E-002	-7.134311E-002	-4.666059E-001
799	6	-2.849988E-002	-1.176606E-002	-1.005682E-001	-4.151912E-001
799	7	-2.021782E-002	-1.030905E-002	-7.134311E-002	-3.637771E-001
799	8	-1.193618E-004	-1.176610E-004	-4.211775E-002	-4.151912E-001
799	9	-2.021782E-002	-1.176606E-002	-7.134311E-002	-4.151912E-001
800	1	-6.338995E-003	-1.741116E-003	-2.236784E-001	-6.143534E-001

800	2	-6.932299E-003	-1.889072E-003	-2.446148E-001	-6.665815E-001
800	3	-6.924271E-003	-1.755048E-003	-2.443272E-001	-6.192954E-001
800	4	-6.330554E-003	-1.606379E-003	-2.233856E-001	-5.668185E-001
800	5	-6.636550E-003	-1.815263E-003	-2.341715E-001	-6.405324E-001
800	6	-6.928496E-003	-1.822120E-003	-2.444808E-001	-6.429424E-001
800	7	-6.628242E-003	-1.680911E-003	-2.338820E-001	-5.931199E-001
800	8	-6.334893E-003	-1.673708E-003	-2.235339E-001	-5.905817E-001
800	9	-6.632380E-003	-1.748110E-003	-2.340271E-001	-6.168221E-001
801	1	-3.788002E-003	-4.316040E-003	-1.336650E-001	-1.522949E+000
801	2	-3.068648E-003	-4.184765E-003	-1.082795E-001	-1.476634E+000
801	3	-3.068786E-003	-4.526155E-003	-1.082826E-001	-1.597082E+000
801	4	-3.788066E-003	-4.677447E-003	-1.336646E-001	-1.650476E+000
801	5	-3.418067E-003	-4.248551E-003	-1.206090E-001	-1.499143E+000
801	6	-3.068747E-003	-4.355450E-003	-1.082840E-001	-1.536858E+000
801	7	-3.417999E-003	-4.599631E-003	-1.206092E-001	-1.623012E+000
801	8	-3.788000E-003	-4.496738E-003	-1.336647E-001	-1.586705E+000
801	9	-3.418086E-003	-4.424099E-003	-1.206094E-001	-1.561075E+000
802	1	-6.546643E-003	-1.982513E-003	-2.309942E-001	-6.995271E-001
802	2	-7.141178E-003	-2.131876E-003	-2.519788E-001	-7.522562E-001
802	3	-7.129013E-003	-1.995384E-003	-2.515559E-001	-7.040867E-001
802	4	-6.537697E-003	-1.846880E-003	-2.306822E-001	-6.517084E-001
802	5	-6.843604E-003	-2.057208E-003	-2.414838E-001	-7.258956E-001
802	6	-7.135108E-003	-2.063476E-003	-2.517683E-001	-7.281091E-001
802	7	-6.833384E-003	-1.921099E-003	-2.411122E-001	-6.778686E-001
802	8	-6.541805E-003	-1.914556E-003	-2.308352E-001	-6.755522E-001
802	9	-6.838361E-003	-1.988965E-003	-2.413020E-001	-7.018149E-001
803	1	-5.746630E-003	-3.765983E-003	-2.027735E-001	-1.328849E+000
803	2	-5.813968E-003	-3.780726E-003	-2.051512E-001	-1.334058E+000
803	3	-5.813992E-003	-3.753581E-003	-2.051493E-001	-1.324476E+000
803	4	-5.746661E-003	-3.736999E-003	-2.027749E-001	-1.318629E+000
803	5	-5.781468E-003	-3.773587E-003	-2.040045E-001	-1.331535E+000
803	6	-5.813980E-003	-3.767130E-003	-2.051499E-001	-1.329269E+000
803	7	-5.781459E-003	-3.745600E-003	-2.040018E-001	-1.321660E+000
803	8	-5.746616E-003	-3.751493E-003	-2.027757E-001	-1.323742E+000
803	9	-5.781496E-003	-3.759578E-003	-2.040039E-001	-1.326603E+000
804	1	-6.710360E-003	-2.238045E-003	-2.367819E-001	-7.897400E-001
804	2	-7.293438E-003	-2.384246E-003	-2.573573E-001	-8.413872E-001
804	3	-7.281491E-003	-2.249176E-003	-2.569353E-001	-7.936231E-001
804	4	-6.701680E-003	-2.104234E-003	-2.364732E-001	-7.425025E-001
804	5	-7.001280E-003	-2.311073E-003	-2.470505E-001	-8.154759E-001
804	6	-7.287582E-003	-2.316504E-003	-2.571484E-001	-8.173949E-001
804	7	-6.991092E-003	-2.176658E-003	-2.466086E-001	-7.680355E-001
804	8	-6.705653E-003	-2.170992E-003	-2.366202E-001	-7.660493E-001
804	9	-6.996154E-003	-2.243610E-003	-2.468680E-001	-7.916871E-001
805	1	-6.816833E-003	-2.512939E-003	-2.405386E-001	-8.867046E-001
805	2	-7.365468E-003	-2.649731E-003	-2.598976E-001	-9.349704E-001
805	3	-7.349880E-003	-2.521066E-003	-2.593459E-001	-8.898481E-001
805	4	-6.801536E-003	-2.384712E-003	-2.399895E-001	-8.414699E-001
805	5	-7.091312E-003	-2.581416E-003	-2.502234E-001	-9.108784E-001
805	6	-7.357717E-003	-2.585767E-003	-2.596168E-001	-9.124882E-001
805	7	-7.075899E-003	-2.453382E-003	-2.496033E-001	-8.657017E-001
805	8	-6.808932E-003	-2.448872E-003	-2.402562E-001	-8.641025E-001
805	9	-7.083681E-003	-2.517413E-003	-2.499514E-001	-8.882798E-001
806	1	-6.831652E-003	-2.808418E-003	-2.410573E-001	-9.909911E-001
806	2	-7.317149E-003	-2.929331E-003	-2.581903E-001	-1.033635E+000
806	3	-7.299809E-003	-2.815012E-003	-2.575834E-001	-9.933045E-001
806	4	-6.814483E-003	-2.693541E-003	-2.404468E-001	-9.504378E-001
806	5	-7.075869E-003	-2.869087E-003	-2.496472E-001	-1.012386E+000
806	6	-7.308433E-003	-2.872199E-003	-2.578850E-001	-1.013483E+000
806	7	-7.057657E-003	-2.754490E-003	-2.490445E-001	-9.719337E-001

806	8	-6.823066E-003	-2.751026E-003	-2.407591E-001	-9.707168E-001
806	9	-7.066413E-003	-2.811764E-003	-2.493441E-001	-9.921508E-001
807	1	-6.719529E-003	-3.125707E-003	-2.371038E-001	-1.102931E+000
807	2	-7.118452E-003	-3.225436E-003	-2.511770E-001	-1.138136E+000
807	3	-7.101522E-003	-3.130262E-003	-2.505898E-001	-1.104537E+000
807	4	-6.704871E-003	-3.031242E-003	-2.365865E-001	-1.069583E+000
807	5	-6.918638E-003	-3.175502E-003	-2.441375E-001	-1.120496E+000
807	6	-7.109875E-003	-3.177692E-003	-2.508759E-001	-1.121272E+000
807	7	-6.903213E-003	-3.080726E-003	-2.435853E-001	-1.087060E+000
807	8	-6.712506E-003	-3.078413E-003	-2.368512E-001	-1.086233E+000
807	9	-6.910986E-003	-3.127984E-003	-2.438641E-001	-1.103740E+000
808	1	-6.461096E-003	-3.462497E-003	-2.279927E-001	-1.221776E+000
808	2	-6.725315E-003	-3.528228E-003	-2.373090E-001	-1.244960E+000
808	3	-6.714035E-003	-3.464913E-003	-2.369123E-001	-1.222606E+000
808	4	-6.449882E-003	-3.398890E-003	-2.275827E-001	-1.199336E+000
808	5	-6.593636E-003	-3.495410E-003	-2.326571E-001	-1.233380E+000
808	6	-6.719757E-003	-3.496588E-003	-2.371069E-001	-1.233792E+000
808	7	-6.582183E-003	-3.431969E-003	-2.322553E-001	-1.210995E+000
808	8	-6.455520E-003	-3.430768E-003	-2.277989E-001	-1.210560E+000
808	9	-6.587982E-003	-3.463673E-003	-2.324594E-001	-1.222194E+000
809	1	-2.844685E-003	-5.874478E-003	-1.003758E-001	-1.790566E+000
809	2	-2.030587E-003	-4.926417E-003	-7.165013E-002	-1.730327E+000
809	3	-2.030590E-003	-5.339041E-003	-7.165188E-002	-1.883937E+000
809	4	-2.844585E-003	-5.509675E-003	-1.003756E-001	-1.944128E+000
809	5	-2.426835E-003	-4.998496E-003	-8.563136E-002	-1.763764E+000
809	6	-2.030621E-003	-5.132708E-003	-7.165069E-002	-1.811119E+000
809	7	-2.426835E-003	-5.422086E-003	-8.563136E-002	-1.913226E+000
809	8	-2.844651E-003	-5.292040E-003	-1.003777E-001	-1.867341E+000
809	9	-2.426835E-003	-5.210288E-003	-8.563136E-002	-1.838488E+000
810	1	-7.114258E-003	-1.950987E-003	-2.510346E-001	-6.884272E-001
810	2	-7.769205E-003	-2.115278E-003	-2.741447E-001	-7.463986E-001
810	3	-7.756113E-003	-1.965581E-003	-2.736778E-001	-6.935627E-001
810	4	-7.104765E-003	-1.802295E-003	-2.507803E-001	-6.359324E-001
810	5	-7.441630E-003	-2.033182E-003	-2.625861E-001	-7.174070E-001
810	6	-7.762521E-003	-2.040206E-003	-2.739010E-001	-7.199172E-001
810	7	-7.430369E-003	-1.883883E-003	-2.621819E-001	-6.647447E-001
810	8	-7.109892E-003	-1.876452E-003	-2.508765E-001	-6.621246E-001
810	9	-7.436046E-003	-1.958304E-003	-2.623848E-001	-6.910027E-001
811	1	-5.822314E-003	-4.357827E-003	-2.054440E-001	-1.537688E+000
811	2	-5.817783E-003	-4.356861E-003	-2.052814E-001	-1.537341E+000
811	3	-5.817637E-003	-4.358836E-003	-2.052811E-001	-1.538053E+000
811	4	-5.822320E-003	-4.359987E-003	-2.054427E-001	-1.538466E+000
811	5	-5.819914E-003	-4.357268E-003	-2.053601E-001	-1.537497E+000
811	6	-5.817687E-003	-4.357821E-003	-2.052816E-001	-1.537698E+000
811	7	-5.819914E-003	-4.359409E-003	-2.053601E-001	-1.538249E+000
811	8	-5.822380E-003	-4.358955E-003	-2.054428E-001	-1.538085E+000
811	9	-5.819914E-003	-4.358348E-003	-2.053601E-001	-1.537886E+000
812	1	-7.327136E-003	-2.219931E-003	-2.585382E-001	-7.833207E-001
812	2	-7.984433E-003	-2.384057E-003	-2.817411E-001	-8.412417E-001
812	3	-7.966899E-003	-2.233196E-003	-2.811174E-001	-7.880170E-001
812	4	-7.312812E-003	-2.070132E-003	-2.580399E-001	-7.304747E-001
812	5	-7.655750E-003	-2.302029E-003	-2.701342E-001	-8.122722E-001
812	6	-7.975820E-003	-2.308446E-003	-2.814291E-001	-8.145609E-001
812	7	-7.639723E-003	-2.151619E-003	-2.695727E-001	-7.592076E-001
812	8	-7.320225E-003	-2.144814E-003	-2.582934E-001	-7.568166E-001
812	9	-7.647712E-003	-2.226606E-003	-2.698528E-001	-7.856742E-001
813	1	-7.481129E-003	-2.515109E-003	-2.639810E-001	-8.874782E-001
813	2	-8.133546E-003	-2.678112E-003	-2.870007E-001	-9.449916E-001
813	3	-8.115525E-003	-2.526532E-003	-2.863693E-001	-8.915101E-001
813	4	-7.466915E-003	-2.364576E-003	-2.634785E-001	-8.343564E-001

813	5	-7.806961E-003	-2.596540E-003	-2.754804E-001	-9.162139E-001
813	6	-8.124412E-003	-2.682087E-003	-2.866782E-001	-9.181640E-001
813	7	-7.791185E-003	-2.445458E-003	-2.749155E-001	-8.629109E-001
813	8	-7.474047E-003	-2.439690E-003	-2.637293E-001	-8.608459E-001
813	9	-7.799024E-003	-2.520806E-003	-2.751932E-001	-8.894783E-001
814	1	-7.551858E-003	-2.841752E-003	-2.664783E-001	-1.092717E+000
814	2	-8.164463E-003	-2.995076E-003	-2.888866E-001	-1.056848E+000
814	3	-8.143247E-003	-2.850797E-003	-2.873408E-001	-1.005946E+000
814	4	-7.534173E-003	-2.698540E-003	-2.658522E-001	-9.522044E-001
814	5	-7.857952E-003	-2.918375E-003	-2.772711E-001	-1.029767E+000
814	6	-8.153845E-003	-2.922752E-003	-2.877148E-001	-1.031314E+000
814	7	-7.838546E-003	-2.774612E-003	-2.765874E-001	-9.798463E-001
814	8	-7.542937E-003	-2.770083E-003	-2.661619E-001	-9.774070E-001
814	9	-7.848242E-003	-2.846286E-003	-2.769329E-001	-1.004347E+000
815	1	-7.501510E-003	-3.198793E-003	-2.646975E-001	-1.128719E+000
815	2	-8.045193E-003	-3.334521E-003	-2.838806E-001	-1.176619E+000
815	3	-8.026029E-003	-3.205699E-003	-2.832002E-001	-1.131151E+000
815	4	-7.482186E-003	-3.069290E-003	-2.640201E-001	-1.083034E+000
815	5	-7.773932E-003	-3.266875E-003	-2.743140E-001	-1.152728E+000
815	6	-8.035315E-003	-3.270153E-003	-2.835375E-001	-1.153904E+000
815	7	-7.754671E-003	-3.137660E-003	-2.736333E-001	-1.107158E+000
815	8	-7.491943E-003	-3.134054E-003	-2.643575E-001	-1.105884E+000
815	9	-7.764359E-003	-3.202270E-003	-2.739769E-001	-1.129954E+000
816	1	-7.297905E-003	-3.587067E-003	-2.575016E-001	-1.266003E+000
816	2	-7.722068E-003	-3.693925E-003	-2.724768E-001	-1.303439E+000
816	3	-7.703842E-003	-3.592082E-003	-2.718369E-001	-1.267498E+000
816	4	-7.279477E-003	-3.485402E-003	-2.568671E-001	-1.229877E+000
816	5	-7.510524E-003	-3.641853E-003	-2.650895E-001	-1.284763E+000
816	6	-7.713026E-003	-3.643030E-003	-2.721617E-001	-1.285471E+000
816	7	-7.492314E-003	-3.538904E-003	-2.643738E-001	-1.248722E+000
816	8	-7.288898E-003	-3.535336E-003	-2.571929E-001	-1.247952E+000
816	9	-7.501391E-003	-3.589991E-003	-2.646933E-001	-1.266754E+000
817	1	-6.883045E-003	-4.008626E-003	-2.428739E-001	-1.414489E+000
817	2	-7.138627E-003	-4.072706E-003	-2.518957E-001	-1.437092E+000
817	3	-7.126502E-003	-4.010691E-003	-2.514605E-001	-1.415200E+000
817	4	-6.871704E-003	-3.947068E-003	-2.424803E-001	-1.392767E+000
817	5	-7.010950E-003	-4.048688E-003	-2.473826E-001	-1.428800E+000
817	6	-7.132491E-003	-4.041632E-003	-2.516763E-001	-1.426128E+000
817	7	-6.999180E-003	-3.978893E-003	-2.469664E-001	-1.403979E+000
817	8	-6.877200E-003	-3.977768E-003	-2.426696E-001	-1.403599E+000
817	9	-7.004941E-003	-4.009789E-003	-2.471747E-001	-1.414858E+000
818	1	-2.042579E-003	-7.180306E-003	-7.207647E-002	-2.533635E+000
818	2	-2.845945E-005	-7.327364E-005	-1.004212E-001	-2.585528E+000
818	3	-2.885777E-003	-6.984834E-003	-1.004213E-001	-2.430642E+000
818	4	-2.042674E-003	-6.719422E-003	-7.207836E-002	-2.371001E+000
818	5	-2.493988E-003	-7.373395E-003	-8.659776E-002	-2.560221E+000
818	6	-2.845959E-005	-7.107933E-005	-1.004220E-001	-2.508004E+000
818	7	-2.454179E-003	-6.806000E-003	-8.659675E-002	-2.401558E+000
818	8	-2.042679E-003	-6.949850E-003	-7.207764E-002	-2.452318E+000
818	9	-2.454176E-003	-7.030821E-003	-8.659630E-002	-2.480882E+000
819	1	-2.945308E-004	-9.904552E-005	-1.039300E-001	-3.495013E-001
819	2	-2.868915E-002	-9.904535E-003	-1.012335E-001	-3.495024E-001
819	3	-2.868873E-002	-1.003886E-002	-1.012357E-001	-3.542378E-001
819	4	-2.973584E-002	-1.013533E-002	-1.039296E-001	-3.542378E-001
819	5	-2.907851E-002	-9.904549E-003	-1.025820E-001	-3.495033E-001
819	6	-2.868913E-002	-9.971628E-003	-1.012343E-001	-3.518702E-001
819	7	-2.907051E-002	-1.003859E-002	-1.025820E-001	-3.542359E-001
819	8	-2.945196E-004	-9.971652E-005	-1.039262E-001	-3.518702E-001
819	9	-2.907051E-002	-9.971628E-003	-1.025820E-001	-3.518702E-001
820	1	-3.397034E-002	-6.108054E-003	-1.198720E-001	-2.155625E-001

820	2	-3.354971E-002	-6.108831E-003	-1.183872E-001	-2.155644E-001
820	3	-3.354996E-002	-6.182806E-003	-1.183873E-001	-2.181735E-001
820	4	-3.396998E-002	-6.182806E-003	-1.198724E-001	-2.181725E-001
820	5	-3.375957E-002	-6.108969E-003	-1.191299E-001	-2.155649E-001
820	6	-3.354991E-002	-6.145901E-003	-1.183879E-001	-2.168705E-001
820	7	-3.376039E-002	-6.182806E-003	-1.191299E-001	-2.181763E-001
820	8	-3.396992E-002	-6.145901E-003	-1.198722E-001	-2.168705E-001
820	9	-3.375974E-002	-6.145901E-003	-1.191301E-001	-2.168705E-001
821	1	-3.454811E-002	-6.474968E-003	-1.219104E-001	-2.284830E-001
821	2	-3.409662E-002	-6.474939E-003	-1.203181E-001	-2.284850E-001
821	3	-3.489728E-002	-6.554225E-003	-1.203183E-001	-2.312814E-001
821	4	-3.454848E-002	-6.554192E-003	-1.219094E-001	-2.312804E-001
821	5	-3.432268E-002	-6.475030E-003	-1.211151E-001	-2.284855E-001
821	6	-3.409627E-002	-6.514646E-003	-1.203180E-001	-2.298829E-001
821	7	-3.432297E-002	-6.554311E-003	-1.211152E-001	-2.312842E-001
821	8	-3.454912E-002	-6.514646E-003	-1.219125E-001	-2.298829E-001
821	9	-3.432264E-002	-6.514646E-003	-1.211150E-001	-2.298829E-001
822	1	-3.506186E-002	-6.742395E-003	-1.237219E-001	-2.379201E-001
822	2	-3.467056E-002	-6.742363E-003	-1.223434E-001	-2.379184E-001
822	3	-3.467107E-002	-6.811165E-003	-1.223439E-001	-2.403491E-001
822	4	-3.506132E-002	-6.811252E-003	-1.237216E-001	-2.403481E-001
822	5	-3.486636E-002	-6.742470E-003	-1.230329E-001	-2.379226E-001
822	6	-3.467117E-002	-6.776822E-003	-1.223436E-001	-2.391355E-001
822	7	-3.486636E-002	-6.811252E-003	-1.230329E-001	-2.403519E-001
822	8	-3.506201E-002	-6.776822E-003	-1.237225E-001	-2.391355E-001
822	9	-3.486636E-002	-6.776822E-003	-1.230329E-001	-2.391355E-001
823	1	-3.528699E-002	-6.905181E-003	-1.245183E-001	-2.436642E-001
823	2	-3.514004E-002	-6.905273E-003	-1.239991E-001	-2.436665E-001
823	3	-3.513930E-002	-6.931189E-003	-1.239975E-001	-2.445809E-001
823	4	-3.528750E-002	-6.931157E-003	-1.245190E-001	-2.445799E-001
823	5	-3.521303E-002	-6.905177E-003	-1.242594E-001	-2.436668E-001
823	6	-3.513948E-002	-6.918242E-003	-1.239968E-001	-2.441248E-001
823	7	-3.521394E-002	-6.931276E-003	-1.242589E-001	-2.445837E-001
823	8	-3.528677E-002	-6.918242E-003	-1.245174E-001	-2.441248E-001
823	9	-3.521337E-002	-6.918242E-003	-1.242593E-001	-2.441248E-001
824	1	-3.483996E-002	-6.995842E-003	-1.229409E-001	-2.468591E-001
824	2	-3.524901E-002	-6.995797E-003	-1.243841E-001	-2.468616E-001
824	3	-3.524885E-002	-6.923841E-003	-1.243848E-001	-2.443231E-001
824	4	-3.484069E-002	-6.923929E-003	-1.229405E-001	-2.443222E-001
824	5	-3.504436E-002	-6.995911E-003	-1.236626E-001	-2.468656E-001
824	6	-3.524896E-002	-6.959859E-003	-1.243840E-001	-2.455928E-001
824	7	-3.504528E-002	-6.923929E-003	-1.236633E-001	-2.443260E-001
824	8	-3.484043E-002	-6.959859E-003	-1.229414E-001	-2.455928E-001
824	9	-3.504488E-002	-6.959859E-003	-1.236620E-001	-2.455928E-001
825	1	-3.336306E-002	-7.129706E-003	-1.177292E-001	-2.515849E-001
825	2	-3.460057E-002	-7.129694E-003	-1.220957E-001	-2.515836E-001
825	3	-3.460138E-002	-6.912026E-003	-1.220948E-001	-2.439053E-001
825	4	-3.336352E-002	-6.911995E-003	-1.177296E-001	-2.439043E-001
825	5	-3.398154E-002	-7.129701E-003	-1.199125E-001	-2.515876E-001
825	6	-3.460058E-002	-7.020851E-003	-1.220937E-001	-2.477468E-001
825	7	-3.398154E-002	-6.912114E-003	-1.199125E-001	-2.439081E-001
825	8	-3.336281E-002	-7.020851E-003	-1.177301E-001	-2.477468E-001
825	9	-3.398154E-002	-7.020851E-003	-1.199125E-001	-2.477468E-001
826	1	-3.102350E-002	-7.522333E-003	-1.094743E-001	-2.654413E-001
826	2	-3.290824E-002	-7.522325E-003	-1.161242E-001	-2.654402E-001
826	3	-3.290886E-002	-7.191315E-003	-1.161242E-001	-2.537656E-001
826	4	-3.102421E-002	-7.191404E-003	-1.094738E-001	-2.537646E-001
826	5	-3.196602E-002	-7.522406E-003	-1.128000E-001	-2.654440E-001
826	6	-3.290830E-002	-7.356954E-003	-1.161240E-001	-2.596060E-001
826	7	-3.196678E-002	-7.191404E-003	-1.128000E-001	-2.537684E-001

826	8	-3.102421E-002	-7.356954E-003	-1.094738E-001	-2.596060E-001
826	9	-3.196651E-002	-7.356954E-003	-1.127996E-001	-2.596060E-001
827	1	-2.882298E-002	-8.385764E-003	-1.017076E-001	-2.959110E-001
827	2	-3.050466E-002	-8.385794E-003	-1.076443E-001	-2.959123E-001
827	3	-3.050568E-002	-8.090701E-003	-1.076441E-001	-2.854985E-001
827	4	-2.882321E-002	-8.090446E-003	-1.017100E-001	-2.854887E-001
827	5	-2.966433E-002	-8.385805E-003	-1.046756E-001	-2.959103E-001
827	6	-3.050493E-002	-8.238287E-003	-1.076434E-001	-2.907062E-001
827	7	-2.966433E-002	-8.090693E-003	-1.046756E-001	-2.854979E-001
827	8	-2.882250E-002	-8.238153E-003	-1.017052E-001	-2.906991E-001
827	9	-2.966433E-002	-8.238212E-003	-1.046756E-001	-2.907024E-001
828	1	-3.188668E-002	-3.767428E-004	-1.125162E-001	-1.329284E-002
828	2	-3.187738E-002	-3.767249E-004	-1.124864E-001	-1.329475E-002
828	3	-3.187746E-002	-3.783875E-004	-1.124867E-001	-1.335461E-002
828	4	-3.188582E-002	-3.783763E-004	-1.125171E-001	-1.335425E-002
828	5	-3.188203E-002	-3.767436E-004	-1.125023E-001	-1.329554E-002
828	6	-3.187738E-002	-3.775528E-004	-1.124866E-001	-1.332462E-002
828	7	-3.188203E-002	-3.783403E-004	-1.125023E-001	-1.334928E-002
828	8	-3.188673E-002	-3.775528E-004	-1.125183E-001	-1.332462E-002
828	9	-3.188203E-002	-3.775528E-004	-1.125023E-001	-1.332462E-002
829	1	-3.191549E-002	-1.125093E-003	-1.126228E-001	-3.970281E-002
829	2	-3.189139E-002	-1.125076E-003	-1.125361E-001	-3.970139E-002
829	3	-3.189149E-002	-1.129432E-003	-1.125350E-001	-3.985622E-002
829	4	-3.191549E-002	-1.129480E-003	-1.126233E-001	-3.985585E-002
829	5	-3.190377E-002	-1.125057E-003	-1.125784E-001	-3.970170E-002
829	6	-3.189103E-002	-1.127236E-003	-1.125348E-001	-3.977756E-002
829	7	-3.190359E-002	-1.129384E-003	-1.125790E-001	-3.985470E-002
829	8	-3.191620E-002	-1.127236E-003	-1.126224E-001	-3.977756E-002
829	9	-3.190368E-002	-1.127236E-003	-1.125787E-001	-3.977756E-002
830	1	-3.196630E-002	-1.862159E-003	-1.128009E-001	-6.570782E-002
830	2	-3.192541E-002	-1.862135E-003	-1.126561E-001	-6.570970E-002
830	3	-3.192602E-002	-1.869435E-003	-1.126561E-001	-6.596664E-002
830	4	-3.196639E-002	-1.869423E-003	-1.127999E-001	-6.596626E-002
830	5	-3.194608E-002	-1.862101E-003	-1.127280E-001	-6.571006E-002
830	6	-3.192526E-002	-1.865808E-003	-1.126553E-001	-6.583687E-002
830	7	-3.194589E-002	-1.869328E-003	-1.127286E-001	-6.596512E-002
830	8	-3.196682E-002	-1.865808E-003	-1.127992E-001	-6.583687E-002
830	9	-3.194598E-002	-1.865808E-003	-1.127283E-001	-6.583687E-002
831	1	-3.205049E-002	-2.581280E-003	-1.130979E-001	-9.108652E-002
831	2	-3.198228E-002	-2.581265E-003	-1.128565E-001	-9.108471E-002
831	3	-3.198261E-002	-2.593274E-003	-1.128569E-001	-9.151053E-002
831	4	-3.205051E-002	-2.593261E-003	-1.130966E-001	-9.151012E-002
831	5	-3.201698E-002	-2.581245E-003	-1.129765E-001	-9.108545E-002
831	6	-3.199263E-002	-2.587258E-003	-1.128568E-001	-9.129585E-002
831	7	-3.201624E-002	-2.593166E-003	-1.129763E-001	-9.150898E-002
831	8	-3.205026E-002	-2.587258E-003	-1.130956E-001	-9.129585E-002
831	9	-3.201668E-002	-2.587258E-003	-1.129770E-001	-9.129585E-002
832	1	-3.217951E-002	-3.275721E-003	-1.135525E-001	-1.155919E-001
832	2	-3.207502E-002	-3.275707E-003	-1.131850E-001	-1.155901E-001
832	3	-3.207545E-002	-3.294072E-003	-1.131844E-001	-1.162390E-001
832	4	-3.217934E-002	-3.294059E-003	-1.135523E-001	-1.162385E-001
832	5	-3.212800E-002	-3.275716E-003	-1.133686E-001	-1.155908E-001
832	6	-3.207558E-002	-3.284868E-003	-1.131853E-001	-1.159130E-001
832	7	-3.212699E-002	-3.293964E-003	-1.133683E-001	-1.162374E-001
832	8	-3.217942E-002	-3.284868E-003	-1.135508E-001	-1.159130E-001
832	9	-3.212769E-002	-3.284868E-003	-1.133681E-001	-1.159130E-001
833	1	-3.236760E-002	-3.938755E-003	-1.142180E-001	-1.389875E-001
833	2	-3.221630E-002	-3.938755E-003	-1.136825E-001	-1.389863E-001
833	3	-3.221625E-002	-3.965590E-003	-1.136816E-001	-1.399302E-001
833	4	-3.236775E-002	-3.965516E-003	-1.142178E-001	-1.399297E-001

833	5	-3.229219E-002	-3.930770E-003	-1.139500E-001	-1.389865E-001
833	6	-3.221669E-002	-3.952895E-003	-1.136827E-001	-1.394583E-001
833	7	-3.229219E-002	-3.965422E-003	-1.139500E-001	-1.399286E-001
833	8	-3.236791E-002	-3.952895E-003	-1.142179E-001	-1.394583E-001
833	9	-3.229219E-002	-3.952895E-003	-1.139500E-001	-1.394583E-001
834	1	-3.263349E-002	-4.562914E-003	-1.151555E-001	-1.610100E-001
834	2	-3.242103E-002	-4.562906E-003	-1.144048E-001	-1.610127E-001
834	3	-3.242110E-002	-4.600314E-003	-1.144046E-001	-1.623320E-001
834	4	-3.263428E-002	-4.600359E-003	-1.151556E-001	-1.623316E-001
834	5	-3.252699E-002	-4.562920E-003	-1.147797E-001	-1.610129E-001
834	6	-3.242114E-002	-4.581617E-003	-1.144042E-001	-1.616721E-001
834	7	-3.252699E-002	-4.600265E-003	-1.147797E-001	-1.623304E-001
834	8	-3.263364E-002	-4.581617E-003	-1.151536E-001	-1.616721E-001
834	9	-3.252699E-002	-4.581617E-003	-1.147797E-001	-1.616721E-001
835	1	-3.298702E-002	-5.139644E-003	-1.164020E-001	-1.813645E-001
835	2	-3.270536E-002	-5.139649E-003	-1.154002E-001	-1.813630E-001
835	3	-3.270570E-002	-5.189370E-003	-1.154077E-001	-1.831163E-001
835	4	-3.298683E-002	-5.189294E-003	-1.164007E-001	-1.831158E-001
835	5	-3.284630E-002	-5.139602E-003	-1.159058E-001	-1.813636E-001
835	6	-3.270511E-002	-5.164483E-003	-1.154079E-001	-1.822394E-001
835	7	-3.284630E-002	-5.189200E-003	-1.159058E-001	-1.831147E-001
835	8	-3.298628E-002	-5.164483E-003	-1.164004E-001	-1.822394E-001
835	9	-3.284630E-002	-5.164483E-003	-1.159058E-001	-1.822394E-001
836	1	-3.343625E-002	-5.659132E-003	-1.179891E-001	-1.996933E-001
836	2	-3.307980E-002	-5.659120E-003	-1.167293E-001	-1.996934E-001
836	3	-3.307969E-002	-5.721746E-003	-1.167295E-001	-2.019028E-001
836	4	-3.343692E-002	-5.721761E-003	-1.179888E-001	-2.019034E-001
836	5	-3.325851E-002	-5.650997E-003	-1.173590E-001	-1.996888E-001
836	6	-3.307958E-002	-5.690368E-003	-1.167292E-001	-2.007973E-001
836	7	-3.325860E-002	-5.721736E-003	-1.173597E-001	-2.019044E-001
836	8	-3.343659E-002	-5.690441E-003	-1.179899E-001	-2.007978E-001
836	9	-3.325880E-002	-5.690425E-003	-1.173597E-001	-2.007982E-001
837	1	-5.813303E-003	-5.166028E-003	-2.051261E-001	-1.822870E+000
837	2	-5.789322E-003	-5.160841E-003	-2.042826E-001	-1.821837E+000
837	3	-5.789417E-003	-5.172155E-003	-2.042861E-001	-1.825028E+000
837	4	-5.813283E-003	-5.178015E-003	-2.051267E-001	-1.827108E+000
837	5	-5.800915E-003	-5.163285E-003	-2.046895E-001	-1.821916E+000
837	6	-5.789487E-003	-5.166488E-003	-2.042858E-001	-1.823034E+000
837	7	-5.801019E-003	-5.174977E-003	-2.046907E-001	-1.826027E+000
837	8	-5.813323E-003	-5.172018E-003	-2.051245E-001	-1.824993E+000
837	9	-5.800893E-003	-5.169142E-003	-2.046899E-001	-1.823975E+000
838	1	-7.974932E-003	-2.189882E-003	-2.814047E-001	-7.727220E-001
838	2	-8.716055E-003	-2.374785E-003	-3.075562E-001	-8.379446E-001
838	3	-8.700707E-003	-2.285341E-003	-3.070135E-001	-7.781749E-001
838	4	-7.959495E-003	-2.019528E-003	-2.808567E-001	-7.126074E-001
838	5	-8.346650E-003	-2.282575E-003	-2.945117E-001	-8.054277E-001
838	6	-8.708244E-003	-2.289952E-003	-3.072837E-001	-8.080363E-001
838	7	-8.331210E-003	-2.112707E-003	-2.939697E-001	-7.454763E-001
838	8	-7.967174E-003	-2.184788E-003	-2.811370E-001	-7.427019E-001
838	9	-8.338740E-003	-2.197630E-003	-2.942436E-001	-7.754492E-001
839	1	-8.201363E-003	-2.501327E-003	-2.893920E-001	-8.026898E-001
839	2	-8.973414E-003	-2.694250E-003	-3.166369E-001	-9.506876E-001
839	3	-8.952125E-003	-2.515917E-003	-3.158781E-001	-8.877496E-001
839	4	-8.179516E-003	-2.322111E-003	-2.886220E-001	-8.193617E-001
839	5	-8.588395E-003	-2.597935E-003	-3.030481E-001	-9.167045E-001
839	6	-8.962844E-003	-2.605115E-003	-3.162503E-001	-9.192436E-001
839	7	-8.566808E-003	-2.419260E-003	-3.022814E-001	-8.536571E-001
839	8	-8.196083E-003	-2.411743E-003	-2.890135E-001	-8.510019E-001
839	9	-8.577595E-003	-2.508633E-003	-3.026678E-001	-8.851951E-001
840	1	-8.353533E-003	-2.858429E-003	-2.947599E-001	-1.008630E+000

840	2	-9.105589E-003	-3.046542E-003	-3.212956E-001	-1.074992E+000
840	3	-9.079802E-003	-2.870594E-003	-3.203923E-001	-1.012912E+000
840	4	-8.331876E-003	-2.683800E-003	-2.939920E-001	-9.469993E-001
840	5	-8.729323E-003	-2.952473E-003	-3.080101E-001	-1.041813E+000
840	6	-9.092689E-003	-2.958355E-003	-3.208474E-001	-1.043871E+000
840	7	-8.785751E-003	-2.777157E-003	-3.071806E-001	-9.799415E-001
840	8	-8.342672E-003	-2.770940E-003	-2.943826E-001	-9.777415E-001
840	9	-8.717413E-003	-2.864563E-003	-3.076802E-001	-1.010774E+000
841	1	-8.387719E-003	-3.255248E-003	-2.959734E-001	-1.148640E+000
841	2	-9.091554E-003	-3.431858E-003	-3.200064E-001	-1.210983E+000
841	3	-9.062611E-003	-3.265058E-003	-3.197761E-001	-1.152111E+000
841	4	-8.362362E-003	-3.089591E-003	-2.950721E-001	-1.090201E+000
841	5	-8.739608E-003	-3.343496E-003	-3.083811E-001	-1.179781E+000
841	6	-9.077156E-003	-3.348314E-003	-3.202901E-001	-1.181492E+000
841	7	-8.712241E-003	-3.177278E-003	-3.074237E-001	-1.121120E+000
841	8	-8.375109E-003	-3.172173E-003	-2.955231E-001	-1.119334E+000
841	9	-8.725837E-003	-3.260205E-003	-3.078969E-001	-1.150388E+000
842	1	-8.261354E-003	-3.697323E-003	-2.915146E-001	-1.304637E+000
842	2	-8.887735E-003	-3.854584E-003	-3.136031E-001	-1.360120E+000
842	3	-8.857208E-003	-3.704387E-003	-3.125388E-001	-1.307136E+000
842	4	-8.238513E-003	-3.550480E-003	-2.907828E-001	-1.252769E+000
842	5	-8.573120E-003	-3.775569E-003	-3.025122E-001	-1.332240E+000
842	6	-8.872453E-003	-3.779078E-003	-3.136693E-001	-1.333476E+000
842	7	-8.546652E-003	-3.627019E-003	-3.015750E-001	-1.279825E+000
842	8	-8.250134E-003	-3.623374E-003	-2.911891E-001	-1.278554E+000
842	9	-8.559732E-003	-3.700879E-003	-3.028416E-001	-1.305896E+000
843	1	-7.938119E-003	-4.188283E-003	-2.808982E-001	-1.477861E+000
843	2	-8.439797E-003	-4.313682E-003	-2.978078E-001	-1.522136E+000
843	3	-8.415381E-003	-4.192565E-003	-2.969446E-001	-1.479386E+000
843	4	-7.916272E-003	-4.068000E-003	-2.793294E-001	-1.435428E+000
843	5	-8.188685E-003	-4.250926E-003	-2.889484E-001	-1.499976E+000
843	6	-8.427504E-003	-4.252976E-003	-2.973756E-001	-1.500700E+000
843	7	-8.165776E-003	-4.130220E-003	-2.881300E-001	-1.457394E+000
843	8	-7.927242E-003	-4.128006E-003	-2.797180E-001	-1.456580E+000
843	9	-8.177145E-003	-4.198438E-003	-2.885357E-001	-1.478631E+000
844	1	-7.351797E-003	-4.733188E-003	-2.594128E-001	-1.670139E+000
844	2	-7.649968E-003	-4.807835E-003	-2.699338E-001	-1.696477E+000
844	3	-7.633134E-003	-4.735188E-003	-2.693366E-001	-1.670822E+000
844	4	-7.336442E-003	-4.661819E-003	-2.588758E-001	-1.644677E+000
844	5	-7.500644E-003	-4.770389E-003	-2.646675E-001	-1.683286E+000
844	6	-7.641406E-003	-4.771360E-003	-2.696321E-001	-1.683619E+000
844	7	-7.484600E-003	-4.698006E-003	-2.641026E-001	-1.657732E+000
844	8	-7.344052E-003	-4.696995E-003	-2.591414E-001	-1.657359E+000
844	9	-7.492610E-003	-4.734108E-003	-2.643854E-001	-1.670481E+000
845	1	-5.745576E-003	-6.212903E-003	-2.027376E-001	-2.192283E+000
845	2	-5.483220E-003	-6.155837E-003	-1.934809E-001	-2.172138E+000
845	3	-5.483229E-003	-6.288992E-003	-1.934799E-001	-2.219117E+000
845	4	-5.745521E-003	-6.353187E-003	-2.027362E-001	-2.241771E+000
845	5	-5.611052E-003	-6.183656E-003	-1.979900E-001	-2.181953E+000
845	6	-5.483261E-003	-6.222399E-003	-1.934794E-001	-2.195624E+000
845	7	-5.611052E-003	-6.320241E-003	-1.979900E-001	-2.230152E+000
845	8	-5.745601E-003	-6.283021E-003	-2.027350E-001	-2.217021E+000
845	9	-5.611052E-003	-6.251939E-003	-1.979900E-001	-2.206054E+000
846	1	-8.961031E-003	-2.462388E-003	-3.162016E-001	-8.688761E-001
846	2	-9.901106E-003	-2.698124E-003	-3.493683E-001	-9.520611E-001
846	3	-9.869780E-003	-2.480557E-003	-3.482668E-001	-8.752831E-001
846	4	-8.940538E-003	-2.249500E-003	-3.154700E-001	-7.937534E-001
846	5	-9.428942E-003	-2.579674E-003	-3.327045E-001	-9.102573E-001
846	6	-9.885411E-003	-2.588772E-003	-3.488179E-001	-9.134641E-001
846	7	-9.403024E-003	-2.364506E-003	-3.317869E-001	-8.343381E-001

846	8	-8.950675E-003	-2.355361E-003	-3.158299E-001	-8.311874E-001
846	9	-9.415788E-003	-2.471479E-003	-3.322465E-001	-8.720986E-001
847	1	-9.230013E-003	-2.053635E-003	-3.256843E-001	-1.006930E+000
847	2	-1.014442E-002	-3.081048E-003	-3.579533E-001	-1.087465E+000
847	3	-1.011326E-002	-2.869565E-003	-3.568597E-001	-1.012552E+000
847	4	-9.204032E-003	-2.642783E-003	-3.247738E-001	-9.325408E-001
847	5	-9.687028E-003	-2.967789E-003	-3.418117E-001	-1.047176E+000
847	6	-1.012891E-002	-2.975420E-003	-3.574180E-001	-1.049988E+000
847	7	-9.658508E-003	-2.756094E-003	-3.408029E-001	-9.724877E-001
847	8	-9.216867E-003	-2.747905E-003	-3.252254E-001	-9.696158E-001
847	9	-9.672588E-003	-2.861592E-003	-3.413867E-001	-1.009729E+000
848	1	-9.372799E-003	-3.290466E-003	-3.307310E-001	-1.161077E+000
848	2	-1.027195E-002	-3.515736E-003	-3.624580E-001	-1.240577E+000
848	3	-1.023507E-002	-3.304323E-003	-3.611583E-001	-1.165961E+000
848	4	-9.340692E-003	-3.080964E-003	-3.296014E-001	-1.087158E+000
848	5	-9.821648E-003	-3.482895E-003	-3.465652E-001	-1.200735E+000
848	6	-1.025346E-002	-3.489710E-003	-3.618004E-001	-1.203148E+000
848	7	-9.787102E-003	-3.192450E-003	-3.453440E-001	-1.126497E+000
848	8	-9.356815E-003	-3.185439E-003	-3.301647E-001	-1.124003E+000
848	9	-9.804300E-003	-3.297301E-003	-3.455587E-001	-1.163512E+000
849	1	-9.372953E-003	-3.783515E-003	-3.307307E-001	-1.335053E+000
849	2	-1.023362E-002	-3.997697E-003	-3.611059E-001	-1.410626E+000
849	3	-1.019735E-002	-3.793821E-003	-3.598250E-001	-1.338681E+000
849	4	-9.336206E-003	-3.578707E-003	-3.294296E-001	-1.262766E+000
849	5	-9.804616E-003	-3.890941E-003	-3.459567E-001	-1.372942E+000
849	6	-1.021556E-002	-3.895784E-003	-3.604642E-001	-1.374656E+000
849	7	-9.768180E-003	-3.686588E-003	-3.446723E-001	-1.300831E+000
849	8	-9.354529E-003	-3.681080E-003	-3.300825E-001	-1.298914E+000
849	9	-9.786301E-003	-3.788756E-003	-3.453164E-001	-1.336887E+000
850	1	-9.105066E-003	-4.342080E-003	-3.240997E-001	-1.532136E+000
850	2	-9.969978E-003	-4.538897E-003	-3.517992E-001	-1.601318E+000
850	3	-9.930938E-003	-4.350457E-003	-3.504215E-001	-1.535085E+000
850	4	-9.146047E-003	-4.153472E-003	-3.227320E-001	-1.465580E+000
850	5	-9.570449E-003	-4.440306E-003	-3.379800E-001	-1.566797E+000
850	6	-9.950281E-003	-4.444257E-003	-3.511115E-001	-1.568212E+000
850	7	-9.539582E-003	-4.252221E-003	-3.366053E-001	-1.500433E+000
850	8	-9.165620E-003	-4.247013E-003	-3.234189E-001	-1.498873E+000
850	9	-9.559014E-003	-4.346273E-003	-3.372984E-001	-1.533627E+000
851	1	-8.737633E-003	-4.979134E-003	-3.083115E-001	-1.756937E+000
851	2	-9.399298E-003	-5.144584E-003	-3.316604E-001	-1.815388E+000
851	3	-9.362206E-003	-4.983847E-003	-3.303548E-001	-1.758580E+000
851	4	-8.704196E-003	-4.819573E-003	-3.071339E-001	-1.700624E+000
851	5	-9.068266E-003	-5.061838E-003	-3.199795E-001	-1.786188E+000
851	6	-9.380716E-003	-5.063974E-003	-3.310859E-001	-1.786869E+000
851	7	-9.033083E-003	-4.901576E-003	-3.187375E-001	-1.729574E+000
851	8	-8.720658E-003	-4.899153E-003	-3.077208E-001	-1.728702E+000
851	9	-9.058063E-003	-4.981495E-003	-3.193583E-001	-1.757757E+000
852	1	-7.954764E-003	-5.704269E-003	-2.806915E-001	-2.012803E+000
852	2	-8.350723E-003	-5.883599E-003	-2.946592E-001	-2.047861E+000
852	3	-8.325410E-003	-5.706557E-003	-2.937705E-001	-2.013607E+000
852	4	-7.931875E-003	-5.608115E-003	-2.798854E-001	-1.978896E+000
852	5	-8.152226E-003	-5.753845E-003	-2.876596E-001	-2.030291E+000
852	6	-8.338009E-003	-5.754925E-003	-2.942107E-001	-2.030684E+000
852	7	-8.128132E-003	-5.657178E-003	-2.868111E-001	-1.996198E+000
852	8	-7.943527E-003	-5.656143E-003	-2.802877E-001	-1.995811E+000
852	9	-8.140214E-003	-5.705382E-003	-2.872323E-001	-2.013200E+000
853	1	-5.098442E-003	-7.496774E-003	-1.799004E-001	-2.645304E+000
853	2	-2.834394E-003	-7.002211E-003	-1.000129E-001	-2.470789E+000
853	3	-2.834369E-003	-8.239501E-003	-1.000138E-001	-2.907385E+000
853	4	-5.098458E-003	-8.797155E-003	-1.799016E-001	-3.104158E+000

853	5	-3.938323E-003	-7.243348E-003	-1.389670E-001	-2.555868E+000
853	6	-2.834384E-003	-7.620864E-003	-1.000143E-001	-2.689085E+000
853	7	-3.938321E-003	-8.511417E-003	-1.389687E-001	-3.083315E+000
853	8	-5.898427E-003	-8.146926E-003	-1.799831E-001	-2.874719E+000
853	9	-3.938337E-003	-7.877409E-003	-1.389669E-001	-2.779601E+000
854	1	-1.020265E-002	-2.827835E-003	-3.600045E-001	-9.978358E-001
854	2	-1.125964E-002	-3.091515E-003	-3.972999E-001	-1.098067E+000
854	3	-1.122292E-002	-2.847672E-003	-3.960083E-001	-1.004838E+000
854	4	-1.016572E-002	-2.582783E-003	-3.587028E-001	-9.113421E-001
854	5	-1.073226E-002	-2.959978E-003	-3.786945E-001	-1.044448E+000
854	6	-1.124115E-002	-2.969587E-003	-3.966509E-001	-1.047838E+000
854	7	-1.069547E-002	-2.715569E-003	-3.773994E-001	-9.581960E-001
854	8	-1.018396E-002	-2.705296E-003	-3.593512E-001	-9.546034E-001
854	9	-1.071397E-002	-2.837788E-003	-3.780501E-001	-1.001336E+000
855	1	-1.045926E-002	-3.294893E-003	-3.690641E-001	-1.162632E+000
855	2	-1.156476E-002	-3.570916E-003	-4.080684E-001	-1.260823E+000
855	3	-1.151957E-002	-3.312618E-003	-4.064696E-001	-1.168876E+000
855	4	-1.041995E-002	-3.038491E-003	-3.676818E-001	-1.072138E+000
855	5	-1.101171E-002	-3.432871E-003	-3.885547E-001	-1.211293E+000
855	6	-1.154289E-002	-3.441384E-003	-4.072751E-001	-1.214321E+000
855	7	-1.096942E-002	-3.175372E-003	-3.878623E-001	-1.120474E+000
855	8	-1.043951E-002	-3.166369E-003	-3.683681E-001	-1.117282E+000
855	9	-1.093058E-002	-3.303805E-003	-3.878100E-001	-1.165772E+000
856	1	-2.597341E-002	-7.974546E-003	-9.165394E-002	-2.813975E-001
856	2	-2.881121E-002	-7.975065E-003	-1.016647E-001	-2.814145E-001
856	3	-2.881151E-002	-7.476954E-003	-1.016664E-001	-2.638431E-001
856	4	-2.597316E-002	-7.476890E-003	-9.165056E-002	-2.638395E-001
856	5	-2.739134E-002	-7.974682E-003	-9.665707E-002	-2.814051E-001
856	6	-2.881076E-002	-7.726893E-003	-1.016638E-001	-2.726281E-001
856	7	-2.739134E-002	-7.476908E-003	-9.665707E-002	-2.638409E-001
856	8	-2.597412E-002	-7.725733E-003	-9.165297E-002	-2.726180E-001
856	9	-2.739134E-002	-7.725936E-003	-9.665707E-002	-2.726252E-001
857	1	-2.526742E-002	-1.005165E-002	-8.916151E-002	-3.546941E-001
857	2	-2.552365E-002	-1.005166E-002	-9.006520E-002	-3.546936E-001
857	3	-2.552370E-002	-1.000648E-002	-9.006543E-002	-3.531013E-001
857	4	-2.526742E-002	-1.000650E-002	-8.916296E-002	-3.531021E-001
857	5	-2.539569E-002	-1.005160E-002	-8.961319E-002	-3.546927E-001
857	6	-2.552372E-002	-1.002904E-002	-9.006604E-002	-3.538958E-001
857	7	-2.539569E-002	-1.000645E-002	-8.961319E-002	-3.530958E-001
857	8	-2.526742E-002	-1.002904E-002	-8.915960E-002	-3.538958E-001
857	9	-2.539569E-002	-1.002904E-002	-8.961319E-002	-3.538958E-001
858	1	-3.406579E-002	-6.581411E-003	-1.202070E-001	-2.322381E-001
858	2	-3.345671E-002	-6.581345E-003	-1.180597E-001	-2.322363E-001
858	3	-3.345699E-002	-6.688184E-003	-1.180599E-001	-2.360878E-001
858	4	-3.406544E-002	-6.688118E-003	-1.202064E-001	-2.360860E-001
858	5	-3.376188E-002	-6.581383E-003	-1.191339E-001	-2.322369E-001
858	6	-3.345678E-002	-6.634797E-003	-1.180596E-001	-2.341213E-001
858	7	-3.376138E-002	-6.688194E-003	-1.191342E-001	-2.360846E-001
858	8	-3.406562E-002	-6.634797E-003	-1.202096E-001	-2.341213E-001
858	9	-3.376119E-002	-6.634797E-003	-1.191349E-001	-2.341213E-001
859	1	-3.482870E-002	-6.836222E-003	-1.229006E-001	-2.412343E-001
859	2	-3.423950E-002	-6.836395E-003	-1.208223E-001	-2.412321E-001
859	3	-3.423934E-002	-6.939935E-003	-1.208235E-001	-2.448989E-001
859	4	-3.482873E-002	-6.939983E-003	-1.228988E-001	-2.448896E-001
859	5	-3.453425E-002	-6.836306E-003	-1.218624E-001	-2.412332E-001
859	6	-3.423945E-002	-6.888112E-003	-1.208211E-001	-2.430628E-001
859	7	-3.453425E-002	-6.939943E-003	-1.218624E-001	-2.448921E-001
859	8	-3.482895E-002	-6.888112E-003	-1.228997E-001	-2.430628E-001
859	9	-3.453425E-002	-6.888112E-003	-1.218624E-001	-2.430628E-001
860	1	-3.532584E-002	-6.944212E-003	-1.246549E-001	-2.450396E-001

860	2	-3.496751E-002	-6.944158E-003	-1.233884E-001	-2.450374E-001
860	3	-3.496724E-002	-7.007230E-003	-1.233875E-001	-2.472639E-001
860	4	-3.532681E-002	-7.007274E-003	-1.246569E-001	-2.472663E-001
860	5	-3.514651E-002	-6.944177E-003	-1.240224E-001	-2.450385E-001
860	6	-3.496742E-002	-6.975713E-003	-1.233888E-001	-2.461519E-001
860	7	-3.514643E-002	-7.007236E-003	-1.240227E-001	-2.472651E-001
860	8	-3.532656E-002	-6.975713E-003	-1.246578E-001	-2.461519E-001
860	9	-3.514659E-002	-6.975713E-003	-1.240222E-001	-2.461519E-001
861	1	-3.501922E-002	-6.905379E-003	-1.235715E-001	-2.436724E-001
861	2	-3.533348E-002	-6.905433E-003	-1.246803E-001	-2.436703E-001
861	3	-3.533341E-002	-6.850147E-003	-1.246804E-001	-2.417222E-001
861	4	-3.501875E-002	-6.850187E-003	-1.235735E-001	-2.417244E-001
861	5	-3.517618E-002	-6.905359E-003	-1.241265E-001	-2.436714E-001
861	6	-3.533257E-002	-6.877761E-003	-1.246803E-001	-2.426965E-001
861	7	-3.517632E-002	-6.850151E-003	-1.241264E-001	-2.417233E-001
861	8	-3.501946E-002	-6.877761E-003	-1.235744E-001	-2.426965E-001
861	9	-3.517613E-002	-6.877761E-003	-1.241268E-001	-2.426965E-001
862	1	-3.311504E-002	-6.838824E-003	-1.168553E-001	-2.413216E-001
862	2	-3.473776E-002	-6.838879E-003	-1.225801E-001	-2.413232E-001
862	3	-3.473743E-002	-6.553384E-003	-1.225797E-001	-2.312484E-001
862	4	-3.311480E-002	-6.553299E-003	-1.168525E-001	-2.312505E-001
862	5	-3.392630E-002	-6.838913E-003	-1.197160E-001	-2.413243E-001
862	6	-3.473816E-002	-6.696055E-003	-1.225808E-001	-2.362858E-001
862	7	-3.392630E-002	-6.553416E-003	-1.197160E-001	-2.312494E-001
862	8	-3.311504E-002	-6.696055E-003	-1.168549E-001	-2.362858E-001
862	9	-3.392630E-002	-6.696055E-003	-1.197160E-001	-2.362858E-001
863	1	-2.963651E-002	-7.071081E-003	-1.045881E-001	-2.495148E-001
863	2	-3.246753E-002	-7.071153E-003	-1.145687E-001	-2.495179E-001
863	3	-3.246723E-002	-6.574575E-003	-1.145687E-001	-2.320889E-001
863	4	-2.963627E-002	-6.574038E-003	-1.045797E-001	-2.319813E-001
863	5	-3.105314E-002	-7.071078E-003	-1.095747E-001	-2.495164E-001
863	6	-3.246761E-002	-6.822872E-003	-1.145687E-001	-2.407598E-001
863	7	-3.105231E-002	-6.574422E-003	-1.095745E-001	-2.319916E-001
863	8	-2.963555E-002	-6.822582E-003	-1.045763E-001	-2.407480E-001
863	9	-3.105279E-002	-6.822750E-003	-1.095743E-001	-2.407533E-001
864	1	-3.260058E-002	-5.742324E-003	-1.150386E-001	-2.026306E-001
864	2	-3.214885E-002	-5.742181E-003	-1.134434E-001	-2.026268E-001
864	3	-3.214855E-002	-5.821629E-003	-1.134436E-001	-2.054278E-001
864	4	-3.260097E-002	-5.821645E-003	-1.150377E-001	-2.054268E-001
864	5	-3.237586E-002	-5.742332E-003	-1.142427E-001	-2.026272E-001
864	6	-3.214843E-002	-5.781889E-003	-1.134435E-001	-2.040277E-001
864	7	-3.237495E-002	-5.821637E-003	-1.142407E-001	-2.054283E-001
864	8	-3.260125E-002	-5.781954E-003	-1.150394E-001	-2.040299E-001
864	9	-3.237512E-002	-5.781991E-003	-1.142425E-001	-2.040288E-001
865	1	-3.328934E-002	-6.207546E-003	-1.174671E-001	-2.198470E-001
865	2	-3.274539E-002	-6.207603E-003	-1.155505E-001	-2.198459E-001
865	3	-3.274592E-002	-6.303145E-003	-1.155510E-001	-2.224218E-001
865	4	-3.328923E-002	-6.303405E-003	-1.174675E-001	-2.224243E-001
865	5	-3.301751E-002	-6.207537E-003	-1.165089E-001	-2.198450E-001
865	6	-3.274573E-002	-6.255365E-003	-1.155482E-001	-2.207334E-001
865	7	-3.301686E-002	-6.303297E-003	-1.165088E-001	-2.224243E-001
865	8	-3.328823E-002	-6.255436E-003	-1.174673E-001	-2.207363E-001
865	9	-3.301742E-002	-6.255420E-003	-1.165090E-001	-2.207345E-001
866	1	-3.123802E-002	-3.974558E-003	-1.182344E-001	-1.402513E-001
866	2	-3.103811E-002	-3.974544E-003	-1.095236E-001	-1.402507E-001
866	3	-3.103794E-002	-4.009895E-003	-1.095246E-001	-1.414946E-001
866	4	-3.123962E-002	-4.009824E-003	-1.182343E-001	-1.414954E-001
866	5	-3.113875E-002	-3.974460E-003	-1.098787E-001	-1.402462E-001
866	6	-3.103791E-002	-3.992171E-003	-1.095259E-001	-1.408727E-001
866	7	-3.113875E-002	-4.009889E-003	-1.098787E-001	-1.414964E-001

866	8	-3.123930E-002	-3.992171E-003	-1.102343E-001	-1.408727E-001
866	9	-3.113875E-002	-3.992171E-003	-1.098787E-001	-1.408727E-001
867	1	-3.158124E-002	-4.612732E-003	-1.114420E-001	-1.627718E-001
867	2	-3.130786E-002	-4.612717E-003	-1.104783E-001	-1.627709E-001
867	3	-3.130881E-002	-4.660693E-003	-1.104778E-001	-1.644612E-001
867	4	-3.158208E-002	-4.660703E-003	-1.114440E-001	-1.644645E-001
867	5	-3.144465E-002	-4.612692E-003	-1.109602E-001	-1.627697E-001
867	6	-3.130801E-002	-4.636715E-003	-1.104773E-001	-1.636169E-001
867	7	-3.144465E-002	-4.660770E-003	-1.109602E-001	-1.644629E-001
867	8	-3.158234E-002	-4.636715E-003	-1.114440E-001	-1.636169E-001
867	9	-3.144465E-002	-4.636715E-003	-1.109602E-001	-1.636169E-001
868	1	-3.203144E-002	-5.205712E-003	-1.130276E-001	-1.836942E-001
868	2	-3.167279E-002	-5.205696E-003	-1.117648E-001	-1.836940E-001
868	3	-3.167351E-002	-5.268516E-003	-1.117642E-001	-1.859084E-001
868	4	-3.203088E-002	-5.268378E-003	-1.130282E-001	-1.859089E-001
868	5	-3.185186E-002	-5.205553E-003	-1.123978E-001	-1.836929E-001
868	6	-3.167320E-002	-5.237087E-003	-1.117646E-001	-1.848023E-001
868	7	-3.185186E-002	-5.268448E-003	-1.123978E-001	-1.859100E-001
868	8	-3.203082E-002	-5.237087E-003	-1.130268E-001	-1.848023E-001
868	9	-3.185186E-002	-5.237087E-003	-1.123978E-001	-1.848023E-001
869	1	-1.061038E-002	-3.031857E-003	-3.743955E-001	-1.352099E+000
869	2	-1.173615E-002	-4.113327E-003	-4.141224E-001	-1.451405E+000
869	3	-1.168183E-002	-3.847671E-003	-4.122036E-001	-1.357673E+000
869	4	-1.056242E-002	-3.568135E-003	-3.727017E-001	-1.259052E+000
869	5	-1.117309E-002	-3.972513E-003	-3.942495E-001	-1.401734E+000
869	6	-1.170882E-002	-3.980062E-003	-4.131524E-001	-1.404397E+000
869	7	-1.112192E-002	-3.707804E-003	-3.924459E-001	-1.308342E+000
869	8	-1.058643E-002	-3.699669E-003	-3.735556E-001	-1.305456E+000
869	9	-1.114742E-002	-3.839821E-003	-3.933443E-001	-1.354896E+000
870	1	-3.056125E-002	-3.790174E-004	-1.078413E-001	-1.337423E-002
870	2	-3.054351E-002	-3.789825E-004	-1.077784E-001	-1.337497E-002
870	3	-3.054312E-002	-3.822105E-004	-1.077788E-001	-1.348753E-002
870	4	-3.056102E-002	-3.821759E-004	-1.078423E-001	-1.348719E-002
870	5	-3.055228E-002	-3.789724E-004	-1.078089E-001	-1.337269E-002
870	6	-3.054351E-002	-3.806280E-004	-1.077786E-001	-1.343959E-002
870	7	-3.055228E-002	-3.822230E-004	-1.078089E-001	-1.348412E-002
870	8	-3.056097E-002	-3.806280E-004	-1.078421E-001	-1.343059E-002
870	9	-3.055228E-002	-3.806280E-004	-1.078089E-001	-1.343059E-002
871	1	-3.060783E-002	-1.130974E-003	-1.080076E-001	-3.991128E-002
871	2	-3.056935E-002	-1.131021E-003	-1.078796E-001	-3.990819E-002
871	3	-3.056945E-002	-1.137847E-003	-1.078698E-001	-4.015220E-002
871	4	-3.060785E-002	-1.137873E-003	-1.080044E-001	-4.015188E-002
871	5	-3.058851E-002	-1.130929E-003	-1.079378E-001	-3.990974E-002
871	6	-3.056898E-002	-1.134450E-003	-1.078693E-001	-4.003261E-002
871	7	-3.058855E-002	-1.137920E-003	-1.079374E-001	-4.014879E-002
871	8	-3.060888E-002	-1.134450E-003	-1.080086E-001	-4.003261E-002
871	9	-3.058865E-002	-1.134450E-003	-1.079380E-001	-4.003261E-002
872	1	-3.068756E-002	-1.072050E-003	-1.082859E-001	-6.606042E-002
872	2	-3.062319E-002	-1.072014E-003	-1.080600E-001	-6.605731E-002
872	3	-3.062326E-002	-1.083340E-003	-1.080598E-001	-6.645990E-002
872	4	-3.068733E-002	-1.083375E-003	-1.082869E-001	-6.645969E-002
872	5	-3.065478E-002	-1.072004E-003	-1.081724E-001	-6.605887E-002
872	6	-3.062256E-002	-1.077687E-003	-1.080598E-001	-6.625908E-002
872	7	-3.065481E-002	-1.083362E-003	-1.081729E-001	-6.645659E-002
872	8	-3.068727E-002	-1.077687E-003	-1.082848E-001	-6.625908E-002
872	9	-3.065491E-002	-1.077687E-003	-1.081726E-001	-6.625908E-002
873	1	-3.080810E-002	-2.597398E-003	-1.087100E-001	-9.165381E-002
873	2	-3.070990E-002	-2.597443E-003	-1.083672E-001	-9.165449E-002
873	3	-3.071070E-002	-2.614655E-003	-1.083694E-001	-9.226172E-002
873	4	-3.080812E-002	-2.614623E-003	-1.087107E-001	-9.226149E-002

873	5	-3.075944E-002	-2.597352E-003	-1.085406E-001	-9.165606E-002
873	6	-3.071024E-002	-2.606034E-003	-1.083674E-001	-9.196023E-002
873	7	-3.075866E-002	-2.614668E-003	-1.085412E-001	-9.226216E-002
873	8	-3.080788E-002	-2.606034E-003	-1.087129E-001	-9.196023E-002
873	9	-3.075912E-002	-2.606034E-003	-1.085410E-001	-9.196023E-002
874	1	-3.098731E-002	-3.300282E-003	-1.093403E-001	-1.164600E-001
874	2	-3.084307E-002	-3.300399E-003	-1.088364E-001	-1.164601E-001
874	3	-3.084297E-002	-3.325706E-003	-1.088361E-001	-1.173567E-001
874	4	-3.098715E-002	-3.325700E-003	-1.093402E-001	-1.173580E-001
874	5	-3.091536E-002	-3.300362E-003	-1.090905E-001	-1.164640E-001
874	6	-3.084324E-002	-3.313101E-003	-1.088369E-001	-1.169074E-001
874	7	-3.091537E-002	-3.325798E-003	-1.090901E-001	-1.173559E-001
874	8	-3.098723E-002	-3.313077E-003	-1.093466E-001	-1.169092E-001
874	9	-3.091550E-002	-3.313061E-003	-1.090909E-001	-1.169074E-001
875	1	-1.058917E-002	-4.452447E-003	-3.736534E-001	-1.571004E+000
875	2	-1.171308E-002	-4.734417E-003	-4.133053E-001	-1.670506E+000
875	3	-1.165837E-002	-4.465118E-003	-4.113714E-001	-1.575556E+000
875	4	-1.054084E-002	-4.185657E-003	-3.719459E-001	-1.476956E+000
875	5	-1.115020E-002	-4.593214E-003	-3.934404E-001	-1.628758E+000
875	6	-1.168541E-002	-4.599409E-003	-4.123304E-001	-1.622955E+000
875	7	-1.109862E-002	-4.325183E-003	-3.916264E-001	-1.526158E+000
875	8	-1.056498E-002	-4.318616E-003	-3.727975E-001	-1.523868E+000
875	9	-1.112436E-002	-4.458789E-003	-3.925354E-001	-1.573321E+000
876	1	-1.036047E-002	-5.174670E-003	-3.655778E-001	-1.825931E+000
876	2	-1.146120E-002	-5.449414E-003	-4.044222E-001	-1.922864E+000
876	3	-1.140002E-002	-5.184776E-003	-4.022684E-001	-1.829495E+000
876	4	-1.030544E-002	-4.911859E-003	-3.636376E-001	-1.733167E+000
876	5	-1.091885E-002	-5.312051E-003	-3.849988E-001	-1.874400E+000
876	6	-1.143041E-002	-5.316735E-003	-4.033316E-001	-1.876046E+000
876	7	-1.085258E-002	-5.040287E-003	-3.829435E-001	-1.781314E+000
876	8	-1.033285E-002	-5.042905E-003	-3.646024E-001	-1.779435E+000
876	9	-1.088165E-002	-5.179754E-003	-3.839637E-001	-1.827737E+000
877	1	-9.832989E-003	-6.037605E-003	-3.469593E-001	-2.130425E+000
877	2	-1.081405E-002	-6.282836E-003	-3.815884E-001	-2.216961E+000
877	3	-1.075204E-002	-6.043207E-003	-3.793958E-001	-2.132390E+000
877	4	-9.776417E-003	-5.800219E-003	-3.449757E-001	-2.046666E+000
877	5	-1.032255E-002	-6.160024E-003	-3.642428E-001	-2.173605E+000
877	6	-1.078386E-002	-6.162653E-003	-3.804862E-001	-2.174556E+000
877	7	-1.026346E-002	-5.921535E-003	-3.621538E-001	-2.089454E+000
877	8	-9.804394E-003	-5.918539E-003	-3.459571E-001	-2.088408E+000
877	9	-1.029300E-002	-6.040421E-003	-3.631940E-001	-2.131419E+000
878	1	-8.797032E-003	-7.120898E-003	-3.104127E-001	-2.512673E+000
878	2	-9.133411E-003	-7.204534E-003	-3.222820E-001	-2.542182E+000
878	3	-9.111917E-003	-7.122322E-003	-3.215208E-001	-2.513155E+000
878	4	-8.775481E-003	-7.038218E-003	-3.096481E-001	-2.483512E+000
878	5	-8.965749E-003	-7.162886E-003	-3.163649E-001	-2.527452E+000
878	6	-9.122692E-003	-7.163446E-003	-3.219837E-001	-2.527662E+000
878	7	-8.944216E-003	-7.080393E-003	-3.155997E-001	-2.498373E+000
878	8	-8.786237E-003	-7.079536E-003	-3.100286E-001	-2.498076E+000
878	9	-8.954951E-003	-7.121693E-003	-3.159864E-001	-2.512908E+000
879	1	-1.162078E-002	-3.258246E-003	-4.108434E-001	-1.149704E+000
879	2	-1.296217E-002	-3.593089E-003	-4.573788E-001	-1.267823E+000
879	3	-1.291595E-002	-3.281531E-003	-4.557586E-001	-1.157924E+000
879	4	-1.157374E-002	-2.945315E-003	-4.083952E-001	-1.039265E+000
879	5	-1.229316E-002	-3.426063E-003	-4.337679E-001	-1.208914E+000
879	6	-1.293915E-002	-3.437241E-003	-4.565670E-001	-1.212867E+000
879	7	-1.224655E-002	-3.113811E-003	-4.321194E-001	-1.098742E+000
879	8	-1.159712E-002	-3.101830E-003	-4.092154E-001	-1.094497E+000
879	9	-1.226972E-002	-3.269951E-003	-4.329423E-001	-1.153832E+000
880	1	-1.196491E-002	-3.835090E-003	-4.221906E-001	-1.353246E+000

880	2	-1.338817E-002	-4.190681E-003	-4.724095E-001	-1.478711E+000
880	3	-1.332871E-002	-3.856021E-003	-4.703148E-001	-1.360629E+000
880	4	-1.190497E-002	-3.498753E-003	-4.280707E-001	-1.234548E+000
880	5	-1.267846E-002	-4.013372E-003	-4.473661E-001	-1.416141E+000
880	6	-1.335854E-002	-4.023352E-003	-4.713698E-001	-1.419678E+000
880	7	-1.261865E-002	-3.677807E-003	-4.452586E-001	-1.297741E+000
880	8	-1.193472E-002	-3.666952E-003	-4.211326E-001	-1.293908E+000
880	9	-1.264854E-002	-3.845569E-003	-4.463127E-001	-1.356954E+000
881	1	-1.210878E-002	-4.509692E-003	-4.298898E-001	-1.591288E+000
881	2	-1.367661E-002	-4.883721E-003	-4.825992E-001	-1.723245E+000
881	3	-1.359397E-002	-4.528598E-003	-4.796709E-001	-1.597942E+000
881	4	-1.210612E-002	-4.156098E-003	-4.271784E-001	-1.466514E+000
881	5	-1.292913E-002	-4.696881E-003	-4.562083E-001	-1.657323E+000
881	6	-1.363521E-002	-4.705662E-003	-4.811307E-001	-1.660437E+000
881	7	-1.285057E-002	-4.342489E-003	-4.534428E-001	-1.532255E+000
881	8	-1.214334E-002	-4.332448E-003	-4.284924E-001	-1.528745E+000
881	9	-1.288978E-002	-4.519109E-003	-4.548249E-001	-1.594611E+000
882	1	-1.222589E-002	-5.297870E-003	-4.314018E-001	-1.869116E+000
882	2	-1.397334E-002	-5.732648E-003	-4.930610E-001	-2.022809E+000
882	3	-1.387676E-002	-5.315472E-003	-4.896550E-001	-1.875587E+000
882	4	-1.213878E-002	-4.882745E-003	-4.283330E-001	-1.722911E+000
882	5	-1.309894E-002	-5.514683E-003	-4.622075E-001	-1.945900E+000
882	6	-1.392500E-002	-5.523489E-003	-4.913522E-001	-1.948994E+000
882	7	-1.300729E-002	-5.098912E-003	-4.589720E-001	-1.799198E+000
882	8	-1.218241E-002	-5.089330E-003	-4.298647E-001	-1.795015E+000
882	9	-1.305302E-002	-5.306240E-003	-4.605874E-001	-1.872352E+000
883	1	-1.214566E-002	-6.275641E-003	-4.285660E-001	-2.214400E+000
883	2	-1.460375E-002	-6.889386E-003	-5.155191E-001	-2.430977E+000
883	3	-1.447077E-002	-6.293050E-003	-5.186080E-001	-2.220554E+000
883	4	-1.200498E-002	-5.676168E-003	-4.236868E-001	-2.002874E+000
883	5	-1.338082E-002	-6.583248E-003	-4.721527E-001	-2.322956E+000
883	6	-1.454019E-002	-6.591305E-003	-5.139640E-001	-2.325788E+000
883	7	-1.324083E-002	-5.985422E-003	-4.672188E-001	-2.112805E+000
883	8	-1.207529E-002	-5.975972E-003	-4.268874E-001	-2.108659E+000
883	9	-1.331882E-002	-6.284389E-003	-4.696807E-001	-2.217488E+000
884	1	-1.197228E-002	-7.664109E-003	-4.224528E-001	-2.704342E+000
884	2	-1.601127E-002	-8.874594E-003	-5.931959E-001	-3.131469E+000
884	3	-1.650178E-002	-7.688222E-003	-5.822751E-001	-2.712851E+000
884	4	-1.165982E-002	-6.471565E-003	-4.114221E-001	-2.283556E+000
884	5	-1.439751E-002	-8.278779E-003	-5.080299E-001	-2.918427E+000
884	6	-1.665627E-002	-8.281469E-003	-5.877319E-001	-2.922201E+000
884	7	-1.408645E-002	-7.081362E-003	-4.970510E-001	-2.498716E+000
884	8	-1.181605E-002	-7.067966E-003	-4.169423E-001	-2.493997E+000
884	9	-1.424209E-002	-7.676214E-003	-5.025428E-001	-2.708608E+000
885	1	-1.182025E-002	-1.821028E-002	-4.178921E-001	-3.602793E+000
885	2	-2.540157E-002	-1.362997E-002	-8.991328E-001	-4.809427E+000
885	3	-2.451460E-002	-1.024935E-002	-8.650289E-001	-3.616565E+000
885	4	-1.093144E-002	-6.853088E-003	-3.857296E-001	-2.418171E+000
885	5	-1.864684E-002	-1.191905E-002	-6.579689E-001	-4.205739E+000
885	6	-2.499677E-002	-1.193483E-002	-8.820274E-001	-4.211302E+000
885	7	-1.771907E-002	-8.550165E-003	-6.252315E-001	-3.017011E+000
885	8	-1.137468E-002	-8.526963E-003	-4.013666E-001	-3.008812E+000
885	9	-1.818158E-002	-1.022988E-002	-6.415539E-001	-3.609692E+000
886	1	-2.541401E-002	-7.889736E-003	-8.967507E-001	-2.473446E+000
886	2	-2.541401E-002	-7.889736E-003	-8.967507E-001	-2.473446E+000
886	3	-2.541401E-002	-7.889736E-003	-8.967507E-001	-2.473446E+000
887	1	-1.585365E-002	-9.218894E-003	-5.594170E-002	-3.253117E-001
887	2	-1.765734E-002	-9.840572E-003	-6.230989E-002	-3.472485E-001
887	3	-2.217634E-002	-9.867788E-003	-7.825201E-002	-3.482015E-001
887	4	-2.186850E-002	-9.385169E-003	-7.716416E-002	-3.311782E-001

888	1	-2.444534E-002	-7.310889E-003	-8.626201E-002	-2.579588E-001
888	2	-2.689990E-002	-7.312853E-003	-9.492017E-002	-2.580223E-001
888	3	-2.688332E-002	-7.861501E-003	-9.486543E-002	-2.491799E-001
888	4	-2.444643E-002	-7.054013E-003	-8.626159E-002	-2.489166E-001
889	1	-2.885888E-002	-6.378821E-003	-1.018340E-001	-2.250594E-001
889	2	-3.199162E-002	-6.380283E-003	-1.128883E-001	-2.251362E-001
889	3	-3.198584E-002	-6.044070E-003	-1.128693E-001	-2.132772E-001
889	4	-2.883743E-002	-6.037818E-003	-1.017556E-001	-2.130599E-001
890	1	-3.271660E-002	-6.327313E-003	-1.154476E-001	-2.232715E-001
890	2	-3.286943E-002	-6.327288E-003	-1.131640E-001	-2.232687E-001
890	3	-3.286914E-002	-6.397597E-003	-1.131635E-001	-2.257557E-001
890	4	-3.271748E-002	-6.397616E-003	-1.154501E-001	-2.257561E-001
890	5	-3.239289E-002	-6.327371E-003	-1.143047E-001	-2.232744E-001
890	6	-3.286928E-002	-6.362453E-003	-1.131637E-001	-2.245118E-001
890	7	-3.239287E-002	-6.397633E-003	-1.143059E-001	-2.257535E-001
890	8	-3.271834E-002	-6.362468E-003	-1.154545E-001	-2.245147E-001
890	9	-3.239311E-002	-6.362471E-003	-1.143046E-001	-2.245131E-001
891	1	-3.367451E-002	-6.715591E-003	-1.188286E-001	-2.369748E-001
891	2	-3.292084E-002	-6.715649E-003	-1.161710E-001	-2.369750E-001
891	3	-3.292143E-002	-6.797301E-003	-1.161718E-001	-2.398574E-001
891	4	-3.367466E-002	-6.797443E-003	-1.188319E-001	-2.398581E-001
891	5	-3.329811E-002	-6.715585E-003	-1.174976E-001	-2.369715E-001
891	6	-3.292143E-002	-6.756486E-003	-1.161692E-001	-2.384160E-001
891	7	-3.329821E-002	-6.797356E-003	-1.174987E-001	-2.398630E-001
891	8	-3.367554E-002	-6.756486E-003	-1.188289E-001	-2.384160E-001
891	9	-3.329839E-002	-6.756486E-003	-1.174984E-001	-2.384160E-001
892	1	-3.468671E-002	-6.967576E-003	-1.223971E-001	-2.458628E-001
892	2	-3.389854E-002	-6.967556E-003	-1.196195E-001	-2.458627E-001
892	3	-3.389870E-002	-7.053185E-003	-1.196194E-001	-2.488858E-001
892	4	-3.468677E-002	-7.053129E-003	-1.223963E-001	-2.488858E-001
892	5	-3.429285E-002	-6.967477E-003	-1.210078E-001	-2.458594E-001
892	6	-3.389904E-002	-7.010287E-003	-1.196192E-001	-2.473734E-001
892	7	-3.429285E-002	-7.053280E-003	-1.210078E-001	-2.488868E-001
892	8	-3.468722E-002	-7.010287E-003	-1.223981E-001	-2.473734E-001
892	9	-3.429285E-002	-7.010287E-003	-1.210078E-001	-2.473734E-001
893	1	-3.551809E-002	-7.026281E-003	-1.253326E-001	-2.479381E-001
893	2	-3.489288E-002	-7.026343E-003	-1.231263E-001	-2.479378E-001
893	3	-3.489229E-002	-7.094334E-003	-1.231232E-001	-2.503334E-001
893	4	-3.551914E-002	-7.094241E-003	-1.253360E-001	-2.503342E-001
893	5	-3.520467E-002	-7.026260E-003	-1.242277E-001	-2.479346E-001
893	6	-3.489324E-002	-7.060260E-003	-1.231246E-001	-2.491340E-001
893	7	-3.520557E-002	-7.094392E-003	-1.242289E-001	-2.503390E-001
893	8	-3.551859E-002	-7.060260E-003	-1.253332E-001	-2.491340E-001
893	9	-3.520499E-002	-7.060260E-003	-1.242295E-001	-2.491340E-001
894	1	-3.558986E-002	-6.840987E-003	-1.253063E-001	-2.413944E-001
894	2	-3.559344E-002	-6.840822E-003	-1.255978E-001	-2.413938E-001
894	3	-3.559154E-002	-6.831921E-003	-1.255955E-001	-2.410795E-001
894	4	-3.551184E-002	-6.831948E-003	-1.253074E-001	-2.410766E-001
894	5	-3.555289E-002	-6.840840E-003	-1.254512E-001	-2.413908E-001
894	6	-3.559259E-002	-6.836384E-003	-1.255970E-001	-2.412361E-001
894	7	-3.555104E-002	-6.831979E-003	-1.254514E-001	-2.410814E-001
894	8	-3.551013E-002	-6.836384E-003	-1.253078E-001	-2.412361E-001
894	9	-3.555153E-002	-6.836384E-003	-1.254502E-001	-2.412361E-001
895	1	-3.338752E-002	-6.482613E-003	-1.178150E-001	-2.287533E-001
895	2	-3.523128E-002	-6.482736E-003	-1.243185E-001	-2.287583E-001
895	3	-3.522969E-002	-6.282592E-003	-1.243164E-001	-2.216965E-001
895	4	-3.338775E-002	-6.282327E-003	-1.178159E-001	-2.216829E-001
895	5	-3.431027E-002	-6.482762E-003	-1.210689E-001	-2.287560E-001
895	6	-3.523139E-002	-6.382640E-003	-1.243212E-001	-2.252269E-001
895	7	-3.431027E-002	-6.282536E-003	-1.210689E-001	-2.216912E-001

895	8	-3.338800E-002	-6.382518E-003	-1.178169E-001	-2.252186E-001
895	9	-3.431027E-002	-6.382562E-003	-1.210689E-001	-2.252233E-001
896	1	-3.000840E-002	-3.332132E-003	-1.058878E-001	-1.175779E-001
896	2	-2.983373E-002	-3.331970E-003	-1.052760E-001	-1.175747E-001
896	3	-2.983502E-002	-3.350917E-003	-1.052773E-001	-1.182432E-001
896	4	-3.000836E-002	-3.350848E-003	-1.058918E-001	-1.182419E-001
896	5	-2.992066E-002	-3.331942E-003	-1.055818E-001	-1.175785E-001
896	6	-2.983390E-002	-3.341402E-003	-1.052767E-001	-1.179886E-001
896	7	-2.992082E-002	-3.350907E-003	-1.055822E-001	-1.182434E-001
896	8	-3.000852E-002	-3.341508E-003	-1.058913E-001	-1.179102E-001
896	9	-2.992104E-002	-3.341435E-003	-1.055823E-001	-1.179091E-001
897	1	-3.030463E-002	-4.018896E-003	-1.069397E-001	-1.418149E-001
897	2	-3.006836E-002	-4.018850E-003	-1.061012E-001	-1.418153E-001
897	3	-3.006887E-002	-4.044664E-003	-1.061028E-001	-1.427266E-001
897	4	-3.030582E-002	-4.044664E-003	-1.069391E-001	-1.427266E-001
897	5	-3.018620E-002	-4.018774E-003	-1.065208E-001	-1.418896E-001
897	6	-3.006846E-002	-4.031764E-003	-1.061032E-001	-1.422698E-001
897	7	-3.018620E-002	-4.044664E-003	-1.065208E-001	-1.427266E-001
897	8	-3.030652E-002	-4.031764E-003	-1.069446E-001	-1.422698E-001
897	9	-3.018620E-002	-4.031764E-003	-1.065208E-001	-1.422698E-001
898	1	-3.070737E-002	-4.672802E-003	-1.083611E-001	-1.648889E-001
898	2	-3.038805E-002	-4.672761E-003	-1.072283E-001	-1.648894E-001
898	3	-3.038727E-002	-4.707625E-003	-1.072292E-001	-1.661162E-001
898	4	-3.070968E-002	-4.707625E-003	-1.083578E-001	-1.661162E-001
898	5	-3.054793E-002	-4.672679E-003	-1.077953E-001	-1.648879E-001
898	6	-3.038804E-002	-4.690117E-003	-1.072274E-001	-1.655008E-001
898	7	-3.054793E-002	-4.707625E-003	-1.077953E-001	-1.661162E-001
898	8	-3.070832E-002	-4.690117E-003	-1.083562E-001	-1.655008E-001
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899	1	-3.123241E-002	-5.284372E-003	-1.102101E-001	-1.864686E-001
899	2	-3.081511E-002	-5.284338E-003	-1.087396E-001	-1.864693E-001
899	3	-3.081466E-002	-5.329511E-003	-1.087373E-001	-1.880660E-001
899	4	-3.123178E-002	-5.329511E-003	-1.102099E-001	-1.880660E-001
899	5	-3.102400E-002	-5.284249E-003	-1.094744E-001	-1.864640E-001
899	6	-3.081529E-002	-5.306920E-003	-1.087384E-001	-1.872667E-001
899	7	-3.102400E-002	-5.329511E-003	-1.094744E-001	-1.880660E-001
899	8	-3.123322E-002	-5.306920E-003	-1.102095E-001	-1.872667E-001
899	9	-3.102400E-002	-5.306920E-003	-1.094744E-001	-1.872667E-001
900	1	-3.189791E-002	-5.841513E-003	-1.125560E-001	-2.061335E-001
900	2	-3.136982E-002	-5.841489E-003	-1.106916E-001	-2.061308E-001
900	3	-3.136791E-002	-5.898771E-003	-1.106896E-001	-2.081509E-001
900	4	-3.189907E-002	-5.898706E-003	-1.125634E-001	-2.081513E-001
900	5	-3.163302E-002	-5.841583E-003	-1.116262E-001	-2.061325E-001
900	6	-3.136909E-002	-5.870137E-003	-1.106947E-001	-2.071399E-001
900	7	-3.163283E-002	-5.898338E-003	-1.116262E-001	-2.081533E-001
900	8	-3.189828E-002	-5.870169E-003	-1.125564E-001	-2.071421E-001
900	9	-3.163344E-002	-5.870175E-003	-1.116257E-001	-2.071422E-001
901	1	-2.964457E-002	-1.886307E-003	-1.046016E-001	-6.655916E-002
901	2	-2.956482E-002	-1.886310E-003	-1.043248E-001	-6.655967E-002
901	3	-2.956306E-002	-1.894763E-003	-1.043196E-001	-6.686315E-002
901	4	-2.964249E-002	-1.894763E-003	-1.046010E-001	-6.686315E-002
901	5	-2.960352E-002	-1.886133E-003	-1.044633E-001	-6.655967E-002
901	6	-2.956407E-002	-1.890511E-003	-1.043255E-001	-6.671010E-002
901	7	-2.960333E-002	-1.894763E-003	-1.044633E-001	-6.686315E-002
901	8	-2.964305E-002	-1.890511E-003	-1.045994E-001	-6.671010E-002
901	9	-2.960335E-002	-1.890511E-003	-1.044639E-001	-6.671010E-002
902	1	-2.979114E-002	-2.618975E-003	-1.051257E-001	-9.241910E-002
902	2	-2.967270E-002	-2.619089E-003	-1.047029E-001	-9.241588E-002
902	3	-2.967158E-002	-2.631964E-003	-1.047028E-001	-9.287515E-002
902	4	-2.979148E-002	-2.631964E-003	-1.051283E-001	-9.287515E-002

902	5	-2.973138E-002	-2.618911E-003	-1.049152E-001	-9.241565E-002
902	6	-2.967229E-002	-2.625498E-003	-1.047054E-001	-9.264755E-002
902	7	-2.973172E-002	-2.631964E-003	-1.049118E-001	-9.287515E-002
902	8	-2.979193E-002	-2.625498E-003	-1.051289E-001	-9.264755E-002
902	9	-2.973179E-002	-2.625498E-003	-1.049157E-001	-9.264755E-002
903	1	-2.948501E-002	-3.832458E-004	-1.040464E-001	-1.352460E-002
903	2	-2.945255E-002	-3.832458E-004	-1.039266E-001	-1.352347E-002
903	3	-2.945168E-002	-3.868818E-004	-1.039269E-001	-1.365138E-002
903	4	-2.948455E-002	-3.868796E-004	-1.040495E-001	-1.365054E-002
903	5	-2.946841E-002	-3.830990E-004	-1.039859E-001	-1.351839E-002
903	6	-2.945168E-002	-3.850425E-004	-1.039266E-001	-1.358624E-002
903	7	-2.946841E-002	-3.868090E-004	-1.039859E-001	-1.365096E-002
903	8	-2.948698E-002	-3.850425E-004	-1.040442E-001	-1.358624E-002
903	9	-2.946841E-002	-3.850425E-004	-1.039859E-001	-1.358624E-002
904	1	-2.954512E-002	-1.139633E-003	-1.042547E-001	-4.021714E-002
904	2	-2.949812E-002	-1.139586E-003	-1.040980E-001	-4.021898E-002
904	3	-2.949692E-002	-1.144871E-003	-1.040898E-001	-4.039808E-002
904	4	-2.954640E-002	-1.144905E-003	-1.042572E-001	-4.039940E-002
904	5	-2.952119E-002	-1.139519E-003	-1.041731E-001	-4.021185E-002
904	6	-2.949750E-002	-1.142256E-003	-1.040874E-001	-4.030696E-002
904	7	-2.952115E-002	-1.144854E-003	-1.041732E-001	-4.039497E-002
904	8	-2.954495E-002	-1.142204E-003	-1.042540E-001	-4.030683E-002
904	9	-2.952165E-002	-1.142243E-003	-1.041719E-001	-4.030625E-002
905	1	-1.341932E-002	-3.775068E-003	-4.735075E-001	-1.332859E+000
905	2	-1.517368E-002	-4.215012E-003	-5.354203E-001	-1.487308E+000
905	3	-1.509088E-002	-3.802884E-003	-5.324927E-001	-1.341876E+000
905	4	-1.335658E-002	-3.371795E-003	-4.712956E-001	-1.189776E+000
905	5	-1.429225E-002	-3.993967E-003	-5.043128E-001	-1.409295E+000
905	6	-1.513192E-002	-4.007746E-003	-5.339451E-001	-1.414169E+000
905	7	-1.421952E-002	-3.586355E-003	-5.017474E-001	-1.265472E+000
905	8	-1.338782E-002	-3.572281E-003	-4.724836E-001	-1.260517E+000
905	9	-1.425577E-002	-3.788984E-003	-5.030236E-001	-1.336978E+000
906	1	-1.388856E-002	-4.494878E-003	-4.900700E-001	-1.586051E+000
906	2	-1.568991E-002	-4.945675E-003	-5.536328E-001	-1.745099E+000
906	3	-1.560325E-002	-4.519935E-003	-5.505728E-001	-1.594885E+000
906	4	-1.381227E-002	-4.073279E-003	-4.873810E-001	-1.437310E+000
906	5	-1.478765E-002	-4.719854E-003	-5.217910E-001	-1.665427E+000
906	6	-1.564663E-002	-4.732199E-003	-5.520978E-001	-1.669789E+000
906	7	-1.470624E-002	-4.296212E-003	-5.189165E-001	-1.515945E+000
906	8	-1.385041E-002	-4.283554E-003	-4.887232E-001	-1.511480E+000
906	9	-1.474681E-002	-4.507446E-003	-5.203531E-001	-1.590488E+000
907	1	-1.425860E-002	-5.286417E-003	-5.031211E-001	-1.865360E+000
907	2	-1.630124E-002	-5.795510E-003	-5.752050E-001	-2.044999E+000
907	3	-1.619963E-002	-5.389416E-003	-5.716181E-001	-1.873474E+000
907	4	-1.414404E-002	-4.793171E-003	-4.990822E-001	-1.691297E+000
907	5	-1.528407E-002	-5.542004E-003	-5.393091E-001	-1.955551E+000
907	6	-1.625066E-002	-5.553156E-003	-5.734156E-001	-1.959481E+000
907	7	-1.517626E-002	-5.052334E-003	-5.355068E-001	-1.782759E+000
907	8	-1.420156E-002	-5.040464E-003	-5.011081E-001	-1.778578E+000
907	9	-1.523033E-002	-5.297989E-003	-5.374123E-001	-1.869405E+000
908	1	-1.468336E-002	-6.176107E-003	-5.181104E-001	-2.179290E+000
908	2	-1.735893E-002	-6.845914E-003	-6.125203E-001	-2.415625E+000
908	3	-1.719116E-002	-6.198619E-003	-6.066036E-001	-2.187254E+000
908	4	-1.453032E-002	-5.533307E-003	-5.127113E-001	-1.952474E+000
908	5	-1.602039E-002	-6.510756E-003	-5.652930E-001	-2.297376E+000
908	6	-1.727501E-002	-6.521386E-003	-6.095601E-001	-2.301107E+000
908	7	-1.586001E-002	-5.865751E-003	-5.596360E-001	-2.069810E+000
908	8	-1.460682E-002	-5.853758E-003	-5.154134E-001	-2.065562E+000
908	9	-1.594804E-002	-6.187378E-003	-5.624553E-001	-2.183277E+000
909	1	-1.553408E-002	-7.154586E-003	-5.481336E-001	-2.524549E+000

909	2	-1.941349E-002	-8.129071E-003	-6.850237E-001	-2.868412E+000
909	3	-1.914415E-002	-7.179274E-003	-6.755208E-001	-2.533252E+000
909	4	-1.531089E-002	-6.222727E-003	-5.402544E-001	-2.195725E+000
909	5	-1.746696E-002	-7.648084E-003	-6.163385E-001	-2.695862E+000
909	6	-1.927820E-002	-7.651439E-003	-6.802458E-001	-2.699868E+000
909	7	-1.722087E-002	-6.699229E-003	-6.076540E-001	-2.363084E+000
909	8	-1.542189E-002	-6.685951E-003	-5.441700E-001	-2.359195E+000
909	9	-1.734332E-002	-7.166990E-003	-6.119722E-001	-2.528931E+000
910	1	-1.789508E-002	-7.977271E-003	-6.314403E-001	-2.814826E+000
910	2	-2.277903E-002	-9.198134E-003	-8.037764E-001	-3.245634E+000
910	3	-2.243573E-002	-7.994624E-003	-7.916681E-001	-2.820977E+000
910	4	-1.757966E-002	-6.782023E-003	-6.203027E-001	-2.393119E+000
910	5	-2.033598E-002	-8.587429E-003	-7.175716E-001	-3.030139E+000
910	6	-2.260712E-002	-8.594656E-003	-7.977079E-001	-3.032693E+000
910	7	-2.000655E-002	-7.388119E-003	-7.059551E-001	-2.606952E+000
910	8	-1.773682E-002	-7.377997E-003	-6.258581E-001	-2.603370E+000
910	9	-2.017086E-002	-7.986045E-003	-7.117429E-001	-2.817938E+000
911	1	-1.758810E-002	-8.985667E-003	-6.207130E-002	-3.170729E-001
911	2	-1.758810E-002	-8.985667E-003	-6.207130E-002	-3.170729E-001
911	3	-1.758810E-002	-8.985667E-003	-6.207130E-002	-3.170729E-001
912	1	-2.324802E-002	-6.879453E-003	-8.203255E-001	-2.427473E+000
912	2	-2.455115E-002	-6.879468E-003	-8.663105E-001	-2.427471E+000
912	3	-2.392404E-002	-6.679892E-003	-8.441809E-001	-2.356776E+000
912	4	-2.303763E-002	-6.679893E-003	-8.129033E-001	-2.356779E+000
913	1	-1.572790E-002	-4.430586E-003	-5.549742E-001	-1.563387E+000
913	2	-1.763593E-002	-4.906543E-003	-6.222934E-001	-1.731316E+000
913	3	-1.754361E-002	-4.459779E-003	-6.190404E-001	-1.573670E+000
913	4	-1.563464E-002	-3.981530E-003	-5.516829E-001	-1.404913E+000
913	5	-1.668433E-002	-4.669202E-003	-5.887160E-001	-1.647556E+000
913	6	-1.758987E-002	-4.683244E-003	-6.206737E-001	-1.652514E+000
913	7	-1.659143E-002	-4.221270E-003	-5.854436E-001	-1.489493E+000
913	8	-1.568149E-002	-4.206141E-003	-5.533291E-001	-1.484172E+000
913	9	-1.663789E-002	-4.445252E-003	-5.870774E-001	-1.568548E+000
914	1	-1.627773E-002	-5.192926E-003	-5.743691E-001	-1.832372E+000
914	2	-1.836172E-002	-5.716809E-003	-6.479101E-001	-2.017216E+000
914	3	-1.824638E-002	-5.219246E-003	-6.438448E-001	-1.841641E+000
914	4	-1.617406E-002	-4.698846E-003	-5.707081E-001	-1.658038E+000
914	5	-1.731901E-002	-5.454727E-003	-6.111147E-001	-1.924744E+000
914	6	-1.830402E-002	-5.467312E-003	-6.458678E-001	-1.929281E+000
914	7	-1.720979E-002	-4.958868E-003	-6.072558E-001	-1.749781E+000
914	8	-1.622575E-002	-4.945158E-003	-5.725369E-001	-1.744955E+000
914	9	-1.726425E-002	-5.206104E-003	-6.091850E-001	-1.837031E+000
915	1	-1.694676E-002	-5.970698E-003	-5.979711E-001	-2.106797E+000
915	2	-1.934146E-002	-6.569388E-003	-6.824800E-001	-2.318057E+000
915	3	-1.928917E-002	-5.994179E-003	-6.778128E-001	-2.115988E+000
915	4	-1.682752E-002	-5.399426E-003	-5.937747E-001	-1.905238E+000
915	5	-1.814346E-002	-6.269803E-003	-6.402044E-001	-2.212362E+000
915	6	-1.927517E-002	-6.288898E-003	-6.801391E-001	-2.216285E+000
915	7	-1.801765E-002	-5.696623E-003	-6.357656E-001	-2.010105E+000
915	8	-1.688706E-002	-5.684314E-003	-5.958727E-001	-2.005762E+000
915	9	-1.808023E-002	-5.982428E-003	-6.379760E-001	-2.110947E+000
916	1	-1.804809E-002	-6.690970E-003	-6.368392E-001	-2.360974E+000
916	2	-2.072528E-002	-7.358662E-003	-7.313097E-001	-2.596560E+000
916	3	-2.055598E-002	-6.711781E-003	-7.253386E-001	-2.368300E+000
916	4	-1.787777E-002	-6.042416E-003	-6.308334E-001	-2.132095E+000
916	5	-1.938833E-002	-7.025342E-003	-6.841332E-001	-2.478935E+000
916	6	-2.064051E-002	-7.035209E-003	-7.283161E-001	-2.482435E+000
916	7	-1.921864E-002	-6.377553E-003	-6.781465E-001	-2.250377E+000
916	8	-1.796275E-002	-6.366699E-003	-6.338335E-001	-2.246554E+000
916	9	-1.930352E-002	-6.701431E-003	-6.811389E-001	-2.364645E+000

917	1	-1.994892E-002	-7.140196E-003	-7.039163E-001	-2.519477E+000
917	2	-2.211922E-002	-7.682185E-003	-7.804961E-001	-2.710729E+000
917	3	-2.196562E-002	-7.150955E-003	-7.750723E-001	-2.523266E+000
917	4	-1.979439E-002	-6.607534E-003	-6.984589E-001	-2.331517E+000
917	5	-2.103533E-002	-7.411461E-003	-7.422478E-001	-2.615206E+000
917	6	-2.204230E-002	-7.416591E-003	-7.777842E-001	-2.617003E+000
917	7	-2.088136E-002	-6.879599E-003	-7.368125E-001	-2.427517E+000
917	8	-1.987169E-002	-6.873907E-003	-7.011915E-001	-2.425511E+000
917	9	-2.095833E-002	-7.145531E-003	-7.395306E-001	-2.521366E+000
918	1	-2.836572E-002	-5.753524E-003	-1.000979E-001	-2.030244E-001
918	2	-3.239645E-002	-5.763457E-003	-1.140008E-001	-2.033778E-001
918	3	-3.238495E-002	-5.333538E-003	-1.140000E-001	-1.882046E-001
918	4	-2.836596E-002	-5.322558E-003	-1.000932E-001	-1.878187E-001
919	1	-3.402441E-002	-6.222854E-003	-1.200617E-001	-2.195879E-001
919	2	-3.594957E-002	-6.223225E-003	-1.268555E-001	-2.196006E-001
919	3	-3.595070E-002	-6.013794E-003	-1.268562E-001	-2.122090E-001
919	4	-3.402369E-002	-6.013729E-003	-1.200589E-001	-2.122105E-001
919	5	-3.498611E-002	-6.223101E-003	-1.234567E-001	-2.195939E-001
919	6	-3.594965E-002	-6.118500E-003	-1.268573E-001	-2.159038E-001
919	7	-3.498611E-002	-6.013732E-003	-1.234567E-001	-2.122069E-001
919	8	-3.402488E-002	-6.118329E-003	-1.200637E-001	-2.158964E-001
919	9	-3.498611E-002	-6.118414E-003	-1.234567E-001	-2.159815E-001
920	1	-3.619174E-002	-6.835007E-003	-1.277052E-001	-2.411826E-001
920	2	-3.592845E-002	-6.834897E-003	-1.267510E-001	-2.411824E-001
920	3	-3.591877E-002	-6.864324E-003	-1.267498E-001	-2.422218E-001
920	4	-3.619056E-002	-6.864328E-003	-1.277042E-001	-2.422190E-001
920	5	-3.605503E-002	-6.834842E-003	-1.272278E-001	-2.411837E-001
920	6	-3.591833E-002	-6.849582E-003	-1.267488E-001	-2.417002E-001
920	7	-3.605543E-002	-6.864237E-003	-1.272280E-001	-2.422190E-001
920	8	-3.619103E-002	-6.849582E-003	-1.277089E-001	-2.417002E-001
920	9	-3.605583E-002	-6.849582E-003	-1.272286E-001	-2.417002E-001
921	1	-3.134180E-002	-5.916314E-003	-1.105990E-001	-2.087721E-001
921	2	-3.075501E-002	-5.916259E-003	-1.085221E-001	-2.087659E-001
921	3	-3.075390E-002	-5.980122E-003	-1.085225E-001	-2.110156E-001
921	4	-3.134200E-002	-5.979980E-003	-1.105987E-001	-2.110151E-001
921	5	-3.104885E-002	-5.916335E-003	-1.095611E-001	-2.087697E-001
921	6	-3.075332E-002	-5.948128E-003	-1.085208E-001	-2.098931E-001
921	7	-3.104802E-002	-5.980018E-003	-1.095622E-001	-2.110195E-001
921	8	-3.134094E-002	-5.948220E-003	-1.105983E-001	-2.098953E-001
921	9	-3.104800E-002	-5.948192E-003	-1.095611E-001	-2.098936E-001
922	1	-3.225946E-002	-6.419470E-003	-1.138335E-001	-2.265237E-001
922	2	-3.153260E-002	-6.419490E-003	-1.112785E-001	-2.265205E-001
922	3	-3.153376E-002	-6.498445E-003	-1.112788E-001	-2.293068E-001
922	4	-3.225868E-002	-6.498422E-003	-1.138293E-001	-2.293071E-001
922	5	-3.189524E-002	-6.419508E-003	-1.125494E-001	-2.265248E-001
922	6	-3.153233E-002	-6.458912E-003	-1.112783E-001	-2.279153E-001
922	7	-3.189518E-002	-6.498314E-003	-1.125484E-001	-2.293075E-001
922	8	-3.225929E-002	-6.458912E-003	-1.138328E-001	-2.279153E-001
922	9	-3.189592E-002	-6.458912E-003	-1.125491E-001	-2.279153E-001
923	1	-3.336313E-002	-6.822989E-003	-1.177321E-001	-2.407663E-001
923	2	-3.249143E-002	-6.823010E-003	-1.146543E-001	-2.407631E-001
923	3	-3.249190E-002	-6.917828E-003	-1.146518E-001	-2.441870E-001
923	4	-3.336447E-002	-6.917797E-003	-1.177288E-001	-2.441870E-001
923	5	-3.292808E-002	-6.823147E-003	-1.161936E-001	-2.407679E-001
923	6	-3.249107E-002	-6.870374E-003	-1.146525E-001	-2.424373E-001
923	7	-3.292822E-002	-6.917725E-003	-1.161948E-001	-2.441037E-001
923	8	-3.336249E-002	-6.870374E-003	-1.177323E-001	-2.424373E-001
923	9	-3.292744E-002	-6.870374E-003	-1.161944E-001	-2.424373E-001
924	1	-3.459992E-002	-7.080928E-003	-1.220944E-001	-2.498643E-001
924	2	-3.363231E-002	-7.088953E-003	-1.186800E-001	-2.498650E-001

924	3	-3.363245E-002	-7.186291E-003	-1.186798E-001	-2.535840E-001
924	4	-3.460138E-002	-7.186341E-003	-1.221802E-001	-2.535846E-001
924	5	-3.411733E-002	-7.080977E-003	-1.203891E-001	-2.498697E-001
924	6	-3.363185E-002	-7.133655E-003	-1.186796E-001	-2.517269E-001
924	7	-3.411733E-002	-7.186272E-003	-1.203891E-001	-2.535814E-001
924	8	-3.460113E-002	-7.133655E-003	-1.220992E-001	-2.517269E-001
924	9	-3.411733E-002	-7.133655E-003	-1.203891E-001	-2.517269E-001
925	1	-3.575118E-002	-7.118175E-003	-1.261579E-001	-2.511792E-001
925	2	-3.487115E-002	-7.118017E-003	-1.230493E-001	-2.511745E-001
925	3	-3.486992E-002	-7.213870E-003	-1.230493E-001	-2.545557E-001
925	4	-3.575143E-002	-7.213993E-003	-1.261589E-001	-2.545596E-001
925	5	-3.531050E-002	-7.118057E-003	-1.245979E-001	-2.511757E-001
925	6	-3.487048E-002	-7.165897E-003	-1.230470E-001	-2.528656E-001
925	7	-3.531006E-002	-7.213805E-003	-1.246018E-001	-2.545560E-001
925	8	-3.575048E-002	-7.165981E-003	-1.261589E-001	-2.528672E-001
925	9	-3.531010E-002	-7.165965E-003	-1.246030E-001	-2.528670E-001
926	1	-3.060215E-002	-5.343466E-003	-1.079078E-001	-1.885535E-001
926	2	-3.014260E-002	-5.343426E-003	-1.063674E-001	-1.885554E-001
926	3	-3.014300E-002	-5.393266E-003	-1.063612E-001	-1.903119E-001
926	4	-3.060047E-002	-5.393136E-003	-1.079800E-001	-1.903126E-001
926	5	-3.037241E-002	-5.343379E-003	-1.071748E-001	-1.885545E-001
926	6	-3.014292E-002	-5.368321E-003	-1.063662E-001	-1.894321E-001
926	7	-3.037241E-002	-5.393141E-003	-1.071748E-001	-1.903090E-001
926	8	-3.060131E-002	-5.368321E-003	-1.079844E-001	-1.894321E-001
926	9	-3.037241E-002	-5.368321E-003	-1.071748E-001	-1.894321E-001
927	1	-2.872945E-002	-1.146220E-003	-1.013797E-001	-4.044483E-002
927	2	-2.868241E-002	-1.146185E-003	-1.012086E-001	-4.044712E-002
927	3	-2.868109E-002	-1.151402E-003	-1.012086E-001	-4.062966E-002
927	4	-2.872979E-002	-1.151322E-003	-1.013822E-001	-4.062640E-002
927	5	-2.870605E-002	-1.146139E-003	-1.012946E-001	-4.044543E-002
927	6	-2.868192E-002	-1.148760E-003	-1.012112E-001	-4.053511E-002
927	7	-2.870504E-002	-1.151327E-003	-1.012945E-001	-4.062825E-002
927	8	-2.872928E-002	-1.148782E-003	-1.013790E-001	-4.053620E-002
927	9	-2.870540E-002	-1.148801E-003	-1.012914E-001	-4.053634E-002
928	1	-2.883952E-002	-1.897452E-003	-1.017702E-001	-6.695502E-002
928	2	-2.874882E-002	-1.897458E-003	-1.014488E-001	-6.695522E-002
928	3	-2.874945E-002	-1.907292E-003	-1.014503E-001	-6.730168E-002
928	4	-2.884031E-002	-1.907254E-003	-1.017734E-001	-6.730269E-002
928	5	-2.879476E-002	-1.897455E-003	-1.016004E-001	-6.695489E-002
928	6	-2.875007E-002	-1.902406E-003	-1.014493E-001	-6.712873E-002
928	7	-2.879407E-002	-1.907273E-003	-1.016083E-001	-6.730410E-002
928	8	-2.883991E-002	-1.902406E-003	-1.017680E-001	-6.712873E-002
928	9	-2.879411E-002	-1.902406E-003	-1.016090E-001	-6.712873E-002
929	1	-2.900810E-002	-2.636044E-003	-1.023636E-001	-9.301891E-002
929	2	-2.887277E-002	-2.636032E-003	-1.018838E-001	-9.301864E-002
929	3	-2.887319E-002	-2.650754E-003	-1.018842E-001	-9.353638E-002
929	4	-2.900874E-002	-2.650798E-003	-1.023635E-001	-9.353998E-002
929	5	-2.894031E-002	-2.636040E-003	-1.021241E-001	-9.301877E-002
929	6	-2.887369E-002	-2.643459E-003	-1.018820E-001	-9.327817E-002
929	7	-2.894061E-002	-2.650818E-003	-1.021225E-001	-9.354144E-002
929	8	-2.900890E-002	-2.643459E-003	-1.023630E-001	-9.327817E-002
929	9	-2.894070E-002	-2.643459E-003	-1.021226E-001	-9.327817E-002
930	1	-2.924857E-002	-3.356613E-003	-1.032110E-001	-1.184465E-001
930	2	-2.905738E-002	-3.356627E-003	-1.025350E-001	-1.184462E-001
930	3	-2.905613E-002	-3.377490E-003	-1.025296E-001	-1.191801E-001
930	4	-2.924855E-002	-3.377504E-003	-1.032120E-001	-1.191808E-001
930	5	-2.915282E-002	-3.356616E-003	-1.028696E-001	-1.184464E-001
930	6	-2.905588E-002	-3.367042E-003	-1.025290E-001	-1.188142E-001
930	7	-2.915260E-002	-3.377527E-003	-1.028679E-001	-1.191824E-001
930	8	-2.924870E-002	-3.367042E-003	-1.032115E-001	-1.188142E-001

930	9	-2.915210E-002	-3.367042E-003	-1.028694E-001	-1.188142E-001
931	1	-2.958057E-002	-4.052592E-003	-1.043813E-001	-1.430051E-001
931	2	-2.931515E-002	-4.052591E-003	-1.034440E-001	-1.430053E-001
931	3	-2.931580E-002	-4.081327E-003	-1.034451E-001	-1.440190E-001
931	4	-2.958016E-002	-4.081481E-003	-1.043808E-001	-1.440185E-001
931	5	-2.944722E-002	-4.052595E-003	-1.039115E-001	-1.430055E-001
931	6	-2.931512E-002	-4.067077E-003	-1.034459E-001	-1.435135E-001
931	7	-2.944722E-002	-4.081446E-003	-1.039115E-001	-1.440240E-001
931	8	-2.957989E-002	-4.067077E-003	-1.043797E-001	-1.435135E-001
931	9	-2.944722E-002	-4.067077E-003	-1.039115E-001	-1.435135E-001
932	1	-3.002377E-002	-4.718200E-003	-1.059465E-001	-1.664938E-001
932	2	-2.966991E-002	-4.718260E-003	-1.046953E-001	-1.664927E-001
932	3	-2.966999E-002	-4.756555E-003	-1.046957E-001	-1.678478E-001
932	4	-3.002442E-002	-4.756759E-003	-1.059442E-001	-1.678493E-001
932	5	-2.984725E-002	-4.718267E-003	-1.053194E-001	-1.664962E-001
932	6	-2.967059E-002	-4.737304E-003	-1.046971E-001	-1.671688E-001
932	7	-2.984725E-002	-4.756595E-003	-1.053194E-001	-1.678471E-001
932	8	-3.002376E-002	-4.737409E-003	-1.059453E-001	-1.671706E-001
932	9	-2.984725E-002	-4.737373E-003	-1.053194E-001	-1.671701E-001
933	1	-2.866424E-002	-3.883620E-004	-1.011515E-001	-1.370203E-002
933	2	-2.860211E-002	-3.882701E-004	-1.009278E-001	-1.370237E-002
933	3	-2.860219E-002	-3.951812E-004	-1.009281E-001	-1.394478E-002
933	4	-2.866474E-002	-3.951712E-004	-1.011509E-001	-1.394479E-002
933	5	-2.863350E-002	-3.883130E-004	-1.010378E-001	-1.370394E-002
933	6	-2.860211E-002	-3.918309E-004	-1.009278E-001	-1.382610E-002
933	7	-2.863350E-002	-3.952480E-004	-1.010378E-001	-1.394613E-002
933	8	-2.866530E-002	-3.918309E-004	-1.011493E-001	-1.382610E-002
933	9	-2.863350E-002	-3.918309E-004	-1.010378E-001	-1.382610E-002
934	1	-2.119863E-002	-6.784613E-003	-7.480247E-002	-2.394114E-001
934	2	-2.525219E-002	-6.786055E-003	-8.918919E-002	-2.394617E-001
934	3	-2.533708E-002	-6.333273E-003	-8.940945E-002	-2.234847E-001
934	4	-2.146592E-002	-6.366583E-003	-7.574507E-002	-2.246563E-001
935	1	-1.819935E-002	-8.910632E-003	-6.421886E-002	-3.144322E-001
935	2	-1.819935E-002	-8.910632E-003	-6.421886E-002	-3.144322E-001
935	3	-1.819935E-002	-8.910632E-003	-6.421886E-002	-3.144322E-001
936	1	-2.260772E-002	-6.563114E-003	-7.977338E-001	-2.315840E+000
936	2	-2.402393E-002	-6.563226E-003	-8.477046E-001	-2.315887E+000
936	3	-2.357706E-002	-6.424495E-003	-8.319340E-001	-2.266937E+000
936	4	-2.245823E-002	-6.424254E-003	-7.924579E-001	-2.266851E+000
937	1	-1.820897E-002	-5.076572E-003	-6.425156E-001	-1.791306E+000
937	2	-2.021299E-002	-5.579565E-003	-7.132316E-001	-1.968798E+000
937	3	-2.010296E-002	-5.104385E-003	-7.093531E-001	-1.801121E+000
937	4	-1.811018E-002	-4.604776E-003	-6.390328E-001	-1.624816E+000
937	5	-1.921042E-002	-5.327966E-003	-6.778522E-001	-1.880000E+000
937	6	-2.015782E-002	-5.341297E-003	-7.112843E-001	-1.884724E+000
937	7	-1.910602E-002	-4.854410E-003	-6.741747E-001	-1.712989E+000
937	8	-1.815955E-002	-4.839981E-003	-6.407738E-001	-1.707826E+000
937	9	-1.915808E-002	-5.090506E-003	-6.760067E-001	-1.796219E+000
938	1	-1.894557E-002	-5.782546E-003	-6.685057E-001	-2.040422E+000
938	2	-2.101070E-002	-6.298046E-003	-7.413803E-001	-2.222322E+000
938	3	-2.088307E-002	-5.805527E-003	-7.368706E-001	-2.048528E+000
938	4	-1.882954E-002	-5.293500E-003	-6.644069E-001	-1.867855E+000
938	5	-1.997749E-002	-6.040103E-003	-7.049183E-001	-2.131295E+000
938	6	-2.094661E-002	-6.051078E-003	-7.391191E-001	-2.135174E+000
938	7	-1.985534E-002	-5.549334E-003	-7.006115E-001	-1.958127E+000
938	8	-1.880719E-002	-5.537296E-003	-6.664529E-001	-1.953807E+000
938	9	-1.991626E-002	-5.794056E-003	-7.027569E-001	-2.044484E+000
939	1	-1.990971E-002	-6.394525E-003	-7.025288E-001	-2.256369E+000
939	2	-2.195702E-002	-6.906206E-003	-7.747728E-001	-2.436919E+000
939	3	-2.182953E-002	-6.411738E-003	-7.702723E-001	-2.262432E+000

939	4	-1.979354E-002	-5.903415E-003	-6.984335E-001	-2.083076E+000
939	5	-2.093280E-002	-6.650256E-003	-7.386274E-001	-2.346589E+000
939	6	-2.189307E-002	-6.658297E-003	-7.725137E-001	-2.349444E+000
939	7	-2.081096E-002	-6.157377E-003	-7.343296E-001	-2.172678E+000
939	8	-1.985143E-002	-6.148251E-003	-7.004691E-001	-2.169466E+000
939	9	-2.087173E-002	-6.403132E-003	-7.364773E-001	-2.259404E+000
940	1	-2.117014E-002	-6.826043E-003	-7.470112E-001	-2.408622E+000
940	2	-2.279774E-002	-7.233576E-003	-8.044394E-001	-2.552436E+000
940	3	-2.268473E-002	-6.836394E-003	-8.004444E-001	-2.412273E+000
940	4	-2.106556E-002	-6.430534E-003	-7.433133E-001	-2.269059E+000
940	5	-2.198402E-002	-7.030038E-003	-7.757524E-001	-2.480591E+000
940	6	-2.274132E-002	-7.034463E-003	-8.024436E-001	-2.482163E+000
940	7	-2.187584E-002	-6.633595E-003	-7.719874E-001	-2.340729E+000
940	8	-2.111770E-002	-6.627773E-003	-7.451630E-001	-2.338643E+000
940	9	-2.193027E-002	-6.831283E-003	-7.738245E-001	-2.410472E+000
941	1	-2.239144E-002	-5.842253E-003	-7.901023E-001	-2.061481E+000
941	2	-2.239144E-002	-5.842253E-003	-7.901023E-001	-2.061481E+000
941	3	-2.239144E-002	-5.842253E-003	-7.901023E-001	-2.061481E+000
942	1	-2.237169E-002	-6.424593E-003	-7.894009E-001	-2.266969E+000
942	2	-2.123584E-002	-6.424479E-003	-7.493284E-001	-2.266928E+000
942	3	-2.096454E-002	-6.555833E-003	-7.397466E-001	-2.313282E+000
942	4	-2.232717E-002	-6.555212E-003	-7.878284E-001	-2.313063E+000
943	1	-1.755802E-002	-5.479807E-003	-6.192838E-002	-1.933681E-001
943	2	-1.926096E-002	-6.082812E-003	-6.796736E-002	-2.146457E-001
943	3	-2.426589E-002	-6.856348E-003	-8.562689E-002	-2.137094E-001
943	4	-2.397966E-002	-5.585847E-003	-8.461612E-002	-1.971043E-001
944	1	-2.769040E-002	-4.940884E-003	-9.771214E-002	-1.743480E-001
944	2	-3.323551E-002	-4.957346E-003	-1.172758E-001	-1.749306E-001
944	3	-3.323662E-002	-4.352123E-003	-1.172779E-001	-1.535712E-001
944	4	-2.769065E-002	-4.334268E-003	-9.771124E-002	-1.529444E-001
945	1	-3.605263E-002	-7.246813E-003	-1.272221E-001	-2.557168E-001
945	2	-3.486158E-002	-7.246630E-003	-1.230158E-001	-2.557115E-001
945	3	-3.486142E-002	-7.376166E-003	-1.230158E-001	-2.602804E-001
945	4	-3.605287E-002	-7.376104E-003	-1.272192E-001	-2.602787E-001
945	5	-3.545773E-002	-7.246801E-003	-1.251214E-001	-2.557155E-001
945	6	-3.486219E-002	-7.311358E-003	-1.230148E-001	-2.579962E-001
945	7	-3.545736E-002	-7.376148E-003	-1.251213E-001	-2.602838E-001
945	8	-3.605263E-002	-7.311461E-003	-1.272183E-001	-2.579998E-001
945	9	-3.545770E-002	-7.311369E-003	-1.251168E-001	-2.579989E-001
946	1	-3.709764E-002	-6.880702E-003	-1.309078E-001	-2.427960E-001
946	2	-3.633614E-002	-6.880673E-003	-1.282192E-001	-2.427963E-001
946	3	-3.633676E-002	-6.963164E-003	-1.282218E-001	-2.457094E-001
946	4	-3.709741E-002	-6.963163E-003	-1.309069E-001	-2.457084E-001
946	5	-3.671718E-002	-6.880710E-003	-1.295653E-001	-2.427962E-001
946	6	-3.633735E-002	-6.921939E-003	-1.282199E-001	-2.442546E-001
946	7	-3.671715E-002	-6.963282E-003	-1.295657E-001	-2.457122E-001
946	8	-3.709788E-002	-6.921939E-003	-1.309088E-001	-2.442546E-001
946	9	-3.671764E-002	-6.921939E-003	-1.295648E-001	-2.442546E-001
947	1	-3.547856E-002	-5.959414E-003	-1.251935E-001	-2.102988E-001
947	2	-3.698923E-002	-5.959412E-003	-1.305260E-001	-2.102919E-001
947	3	-3.698877E-002	-5.795154E-003	-1.305238E-001	-2.044935E-001
947	4	-3.547904E-002	-5.795156E-003	-1.251954E-001	-2.044926E-001
947	5	-3.623385E-002	-5.959540E-003	-1.278601E-001	-2.102947E-001
947	6	-3.698931E-002	-5.877323E-003	-1.305249E-001	-2.073945E-001
947	7	-3.623385E-002	-5.795274E-003	-1.278601E-001	-2.044964E-001
947	8	-3.547833E-002	-5.877323E-003	-1.251964E-001	-2.073945E-001
947	9	-3.623385E-002	-5.877323E-003	-1.278601E-001	-2.073945E-001
948	1	-3.303505E-002	-6.947091E-003	-1.165725E-001	-2.451442E-001
948	2	-3.204351E-002	-6.947205E-003	-1.130716E-001	-2.451421E-001
948	3	-3.204277E-002	-7.054508E-003	-1.130701E-001	-2.489347E-001

948	4	-3.303542E-002	-7.054494E-003	-1.165729E-001	-2.489333E-001
948	5	-3.253894E-002	-6.947124E-003	-1.148194E-001	-2.451463E-001
948	6	-3.204276E-002	-7.000919E-003	-1.130707E-001	-2.470485E-001
948	7	-3.253913E-002	-7.054589E-003	-1.148188E-001	-2.489373E-001
948	8	-3.303441E-002	-7.000919E-003	-1.165727E-001	-2.470485E-001
948	9	-3.253962E-002	-7.000919E-003	-1.148198E-001	-2.470485E-001
949	1	-3.451721E-002	-7.220193E-003	-1.218057E-001	-2.547778E-001
949	2	-3.334911E-002	-7.220099E-003	-1.176814E-001	-2.547756E-001
949	3	-3.334906E-002	-7.347011E-003	-1.176808E-001	-2.592522E-001
949	4	-3.451725E-002	-7.346970E-003	-1.218049E-001	-2.592537E-001
949	5	-3.393343E-002	-7.220159E-003	-1.197408E-001	-2.547802E-001
949	6	-3.334974E-002	-7.283577E-003	-1.176815E-001	-2.570147E-001
949	7	-3.393343E-002	-7.346975E-003	-1.197408E-001	-2.592510E-001
949	8	-3.451771E-002	-7.283577E-003	-1.218039E-001	-2.570147E-001
949	9	-3.393343E-002	-7.283577E-003	-1.197409E-001	-2.570147E-001
950	1	-2.932496E-002	-4.768236E-003	-1.034804E-001	-1.682561E-001
950	2	-2.893929E-002	-4.768086E-003	-1.021147E-001	-1.682484E-001
950	3	-2.893938E-002	-4.809871E-003	-1.021190E-001	-1.697282E-001
950	4	-2.932463E-002	-4.809992E-003	-1.034788E-001	-1.697292E-001
950	5	-2.913258E-002	-4.768194E-003	-1.027973E-001	-1.682564E-001
950	6	-2.893929E-002	-4.788983E-003	-1.021208E-001	-1.689902E-001
950	7	-2.913258E-002	-4.809941E-003	-1.027973E-001	-1.697276E-001
950	8	-2.932588E-002	-4.789065E-003	-1.034754E-001	-1.689921E-001
950	9	-2.913258E-002	-4.789089E-003	-1.027973E-001	-1.689923E-001
951	1	-2.995375E-002	-5.480375E-003	-1.056961E-001	-1.908485E-001
951	2	-2.945361E-002	-5.480366E-003	-1.039334E-001	-1.908454E-001
951	3	-2.945408E-002	-5.462757E-003	-1.039339E-001	-1.927633E-001
951	4	-2.995370E-002	-5.462691E-003	-1.056987E-001	-1.927639E-001
951	5	-2.970400E-002	-5.480445E-003	-1.048180E-001	-1.908477E-001
951	6	-2.945377E-002	-5.435598E-003	-1.039351E-001	-1.918059E-001
951	7	-2.970400E-002	-5.462810E-003	-1.048180E-001	-1.927650E-001
951	8	-2.995386E-002	-5.435598E-003	-1.056993E-001	-1.918059E-001
951	9	-2.970400E-002	-5.435598E-003	-1.048180E-001	-1.918059E-001
952	1	-3.076151E-002	-5.999294E-003	-1.085483E-001	-2.117004E-001
952	2	-3.012838E-002	-5.999496E-003	-1.062840E-001	-2.117009E-001
952	3	-3.011979E-002	-6.069850E-003	-1.062849E-001	-2.141604E-001
952	4	-3.076360E-002	-6.069071E-003	-1.085556E-001	-2.141611E-001
952	5	-3.044125E-002	-5.999488E-003	-1.074173E-001	-2.117038E-001
952	6	-3.011930E-002	-6.034269E-003	-1.062828E-001	-2.129320E-001
952	7	-3.044174E-002	-6.069104E-003	-1.074181E-001	-2.141621E-001
952	8	-3.076187E-002	-6.034269E-003	-1.085525E-001	-2.129320E-001
952	9	-3.044102E-002	-6.034269E-003	-1.074179E-001	-2.129320E-001
953	1	-3.178031E-002	-6.522626E-003	-1.121463E-001	-2.301643E-001
953	2	-3.097333E-002	-6.522753E-003	-1.092964E-001	-2.301665E-001
953	3	-3.097353E-002	-6.610323E-003	-1.092958E-001	-2.332592E-001
953	4	-3.178116E-002	-6.610512E-003	-1.121448E-001	-2.332666E-001
953	5	-3.137698E-002	-6.522593E-003	-1.107211E-001	-2.301662E-001
953	6	-3.097297E-002	-6.566392E-003	-1.092961E-001	-2.317107E-001
953	7	-3.137675E-002	-6.610463E-003	-1.107162E-001	-2.332597E-001
953	8	-3.178134E-002	-6.566567E-003	-1.121455E-001	-2.317151E-001
953	9	-3.137678E-002	-6.566511E-003	-1.107178E-001	-2.317137E-001
954	1	-2.847965E-002	-3.383809E-003	-1.004958E-001	-1.194069E-001
954	2	-2.826624E-002	-3.383925E-003	-9.974163E-002	-1.194048E-001
954	3	-2.826658E-002	-3.486976E-003	-9.974680E-002	-1.202217E-001
954	4	-2.848059E-002	-3.486993E-003	-1.005007E-001	-1.202223E-001
954	5	-2.837325E-002	-3.383903E-003	-1.001219E-001	-1.194091E-001
954	6	-2.826641E-002	-3.395473E-003	-9.974231E-002	-1.198147E-001
954	7	-2.837347E-002	-3.407027E-003	-1.001220E-001	-1.202234E-001
954	8	-2.848141E-002	-3.395473E-003	-1.004964E-001	-1.198147E-001
954	9	-2.837326E-002	-3.395473E-003	-1.001222E-001	-1.198147E-001

955	1	-2.884117E-002	-4.098101E-003	-1.017723E-001	-1.443287E-001
955	2	-2.855385E-002	-4.098100E-003	-1.007540E-001	-1.443302E-001
955	3	-2.855257E-002	-4.121503E-003	-1.007547E-001	-1.454335E-001
955	4	-2.884146E-002	-4.121435E-003	-1.017757E-001	-1.454341E-001
955	5	-2.869720E-002	-4.098269E-003	-1.012620E-001	-1.443309E-001
955	6	-2.855278E-002	-4.105854E-003	-1.007569E-001	-1.448825E-001
955	7	-2.869728E-002	-4.121555E-003	-1.012620E-001	-1.454351E-001
955	8	-2.884145E-002	-4.105854E-003	-1.017707E-001	-1.448825E-001
955	9	-2.869728E-002	-4.105854E-003	-1.012620E-001	-1.448825E-001
956	1	-2.783654E-002	-3.965563E-004	-9.822784E-002	-1.399247E-002
956	2	-2.781950E-002	-3.965535E-004	-9.816739E-002	-1.399276E-002
956	3	-2.781973E-002	-3.982877E-004	-9.816813E-002	-1.405415E-002
956	4	-2.783705E-002	-3.983574E-004	-9.822641E-002	-1.405750E-002
956	5	-2.782764E-002	-3.964857E-004	-9.819835E-002	-1.399118E-002
956	6	-2.782022E-002	-3.974588E-004	-9.816743E-002	-1.402477E-002
956	7	-2.782756E-002	-3.983821E-004	-9.819564E-002	-1.405900E-002
956	8	-2.783781E-002	-3.974588E-004	-9.822792E-002	-1.402477E-002
956	9	-2.782838E-002	-3.974588E-004	-9.820810E-002	-1.402477E-002
957	1	-2.791369E-002	-1.153191E-003	-9.849992E-002	-4.069285E-002
957	2	-2.784911E-002	-1.153191E-003	-9.827129E-002	-4.069323E-002
957	3	-2.784883E-002	-1.160286E-003	-9.827118E-002	-4.094249E-002
957	4	-2.791478E-002	-1.160152E-003	-9.850496E-002	-4.094201E-002
957	5	-2.788228E-002	-1.153114E-003	-9.838669E-002	-4.068739E-002
957	6	-2.784848E-002	-1.156650E-003	-9.826938E-002	-4.081843E-002
957	7	-2.788154E-002	-1.160261E-003	-9.838536E-002	-4.094369E-002
957	8	-2.791439E-002	-1.156650E-003	-9.849910E-002	-4.081843E-002
957	9	-2.788147E-002	-1.156650E-003	-9.838626E-002	-4.081843E-002
958	1	-2.883058E-002	-1.910374E-003	-9.890863E-002	-6.741316E-002
958	2	-2.792484E-002	-1.910409E-003	-9.853837E-002	-6.741332E-002
958	3	-2.792365E-002	-1.921773E-003	-9.853591E-002	-6.781609E-002
958	4	-2.883043E-002	-1.921982E-003	-9.891094E-002	-6.781560E-002
958	5	-2.797733E-002	-1.910284E-003	-9.872550E-002	-6.740800E-002
958	6	-2.792424E-002	-1.916092E-003	-9.853504E-002	-6.761477E-002
958	7	-2.797702E-002	-1.921867E-003	-9.872198E-002	-6.781720E-002
958	8	-2.883009E-002	-1.916092E-003	-9.891059E-002	-6.761477E-002
958	9	-2.797701E-002	-1.916092E-003	-9.872106E-002	-6.761477E-002
959	1	-2.821414E-002	-2.655287E-003	-9.955461E-002	-9.370064E-002
959	2	-2.806749E-002	-2.655212E-003	-9.904081E-002	-9.369659E-002
959	3	-2.806636E-002	-2.671284E-003	-9.904112E-002	-9.426043E-002
959	4	-2.821384E-002	-2.671324E-003	-9.955452E-002	-9.426511E-002
959	5	-2.813995E-002	-2.655343E-003	-9.930152E-002	-9.369931E-002
959	6	-2.806719E-002	-2.663312E-003	-9.903994E-002	-9.397988E-002
959	7	-2.814022E-002	-2.671367E-003	-9.930173E-002	-9.426205E-002
959	8	-2.821562E-002	-2.663389E-003	-9.956164E-002	-9.398022E-002
959	9	-2.813998E-002	-2.663320E-003	-9.929808E-002	-9.398020E-002
960	1	-2.074330E-002	-5.647413E-003	-7.319462E-001	-1.992724E+000
960	2	-2.248459E-002	-6.081782E-003	-7.933863E-001	-2.145970E+000
960	3	-2.238826E-002	-5.669135E-003	-7.899874E-001	-2.000399E+000
960	4	-2.064633E-002	-5.232738E-003	-7.285233E-001	-1.846411E+000
960	5	-2.161687E-002	-5.864978E-003	-7.627456E-001	-2.069521E+000
960	6	-2.243642E-002	-5.875459E-003	-7.916905E-001	-2.073205E+000
960	7	-2.151923E-002	-5.451451E-003	-7.593301E-001	-1.923597E+000
960	8	-2.069493E-002	-5.440136E-003	-7.302359E-001	-1.919589E+000
960	9	-2.156775E-002	-5.658251E-003	-7.610329E-001	-1.996562E+000
961	1	-2.149186E-002	-6.206781E-003	-7.583593E-001	-2.190122E+000
961	2	-2.313127E-002	-6.616290E-003	-8.162085E-001	-2.334617E+000
961	3	-2.302854E-002	-6.222853E-003	-8.125781E-001	-2.195792E+000
961	4	-2.138834E-002	-5.811294E-003	-7.547069E-001	-2.050571E+000
961	5	-2.231329E-002	-6.412002E-003	-7.873485E-001	-2.262525E+000
961	6	-2.308002E-002	-6.419576E-003	-8.143981E-001	-2.265193E+000

961	7	-2.221025E-002	-6.017508E-003	-7.837062E-001	-2.123325E+000
961	8	-2.144030E-002	-6.009899E-003	-7.565391E-001	-2.120356E+000
961	9	-2.226184E-002	-6.214781E-003	-7.855289E-001	-2.192933E+000
962	1	-2.228924E-002	-6.655053E-003	-7.064923E-001	-2.348292E+000
962	2	-2.316708E-002	-6.875002E-003	-8.174719E-001	-2.425905E+000
962	3	-2.310619E-002	-6.661789E-003	-8.153166E-001	-2.350665E+000
962	4	-2.223354E-002	-6.443822E-003	-7.845247E-001	-2.273768E+000
962	5	-2.272711E-002	-6.764804E-003	-8.019502E-001	-2.387020E+000
962	6	-2.313655E-002	-6.768099E-003	-8.163924E-001	-2.388166E+000
962	7	-2.266882E-002	-6.552547E-003	-7.998912E-001	-2.312123E+000
962	8	-2.226141E-002	-6.549105E-003	-7.855100E-001	-2.310907E+000
962	9	-2.269798E-002	-6.658391E-003	-8.009187E-001	-2.349458E+000
963	1	-1.683043E-002	-5.174143E-003	-5.938726E-002	-1.825792E-001
963	2	-1.683043E-002	-5.174143E-003	-5.938726E-002	-1.825792E-001
963	3	-1.683043E-002	-5.174143E-003	-5.938726E-002	-1.825792E-001
964	1	-2.015506E-002	-5.733184E-003	-7.111868E-001	-2.023002E+000
964	2	-2.217795E-002	-5.728210E-003	-7.825634E-001	-2.021245E+000
964	3	-2.158677E-002	-5.520297E-003	-7.588858E-001	-1.947878E+000
964	4	-1.996926E-002	-5.521075E-003	-7.046317E-001	-1.948148E+000
965	1	-2.242487E-002	-6.718518E-003	-7.912779E-001	-2.370681E+000
965	2	-2.020430E-002	-6.719781E-003	-7.129287E-001	-2.371128E+000
965	3	-2.022164E-002	-7.004557E-003	-7.135364E-001	-2.471617E+000
965	4	-2.248975E-002	-7.004186E-003	-7.935725E-001	-2.471485E+000
966	1	-2.293963E-002	-6.895461E-003	-8.094461E-001	-2.150831E+000
966	2	-2.452537E-002	-6.492981E-003	-8.653940E-001	-2.291101E+000
966	3	-2.441754E-002	-6.113011E-003	-8.615888E-001	-2.157029E+000
966	4	-2.285056E-002	-5.723478E-003	-8.062977E-001	-2.019578E+000
966	5	-2.372867E-002	-6.293238E-003	-8.372859E-001	-2.220631E+000
966	6	-2.447094E-002	-6.302013E-003	-8.634827E-001	-2.223701E+000
966	7	-2.363000E-002	-5.917213E-003	-8.338898E-001	-2.087955E+000
966	8	-2.289484E-002	-5.908467E-003	-8.078623E-001	-2.084844E+000
966	9	-2.367920E-002	-6.104220E-003	-8.355417E-001	-2.153928E+000
967	1	-2.344363E-002	-6.700078E-003	-8.272293E-001	-2.364476E+000
967	2	-2.394689E-002	-6.826462E-003	-8.449855E-001	-2.408791E+000
967	3	-2.391214E-002	-6.705048E-003	-8.437646E-001	-2.365930E+000
967	4	-2.341194E-002	-6.580239E-003	-8.261042E-001	-2.321896E+000
967	5	-2.369514E-002	-6.763651E-003	-8.360982E-001	-2.386612E+000
967	6	-2.392961E-002	-6.765686E-003	-8.443818E-001	-2.387314E+000
967	7	-2.366198E-002	-6.642584E-003	-8.349281E-001	-2.343876E+000
967	8	-2.342768E-002	-6.640412E-003	-8.266641E-001	-2.343117E+000
967	9	-2.367843E-002	-6.702952E-003	-8.355123E-001	-2.365199E+000
968	1	-3.127686E-002	-6.637057E-003	-1.103624E-001	-2.342032E-001
968	2	-3.038911E-002	-6.636983E-003	-1.072334E-001	-2.341978E-001
968	3	-3.038974E-002	-6.733295E-003	-1.072323E-001	-2.375959E-001
968	4	-3.127429E-002	-6.733405E-003	-1.103581E-001	-2.376025E-001
968	5	-3.083259E-002	-6.637018E-003	-1.087992E-001	-2.342038E-001
968	6	-3.038990E-002	-6.685211E-003	-1.072331E-001	-2.358993E-001
968	7	-3.083244E-002	-6.733334E-003	-1.087999E-001	-2.376034E-001
968	8	-3.127613E-002	-6.685324E-003	-1.103617E-001	-2.359029E-001
968	9	-3.083228E-002	-6.685191E-003	-1.087988E-001	-2.359022E-001
969	1	-3.267781E-002	-7.087823E-003	-1.153183E-001	-2.501053E-001
969	2	-3.156565E-002	-7.087773E-003	-1.113872E-001	-2.501064E-001
969	3	-3.156614E-002	-7.208651E-003	-1.113870E-001	-2.543713E-001
969	4	-3.267753E-002	-7.208632E-003	-1.153181E-001	-2.543717E-001
969	5	-3.212086E-002	-7.087790E-003	-1.133467E-001	-2.501081E-001
969	6	-3.156615E-002	-7.148148E-003	-1.113855E-001	-2.522368E-001
969	7	-3.212196E-002	-7.208657E-003	-1.133521E-001	-2.543715E-001
969	8	-3.267745E-002	-7.148148E-003	-1.153078E-001	-2.522368E-001
969	9	-3.212178E-002	-7.148148E-003	-1.133504E-001	-2.522368E-001
970	1	-3.439876E-002	-7.306878E-003	-1.213838E-001	-2.606618E-001

970	2	-3.304201E-002	-7.386839E-003	-1.165970E-001	-2.686592E-001
970	3	-3.304476E-002	-7.534288E-003	-1.166032E-001	-2.658606E-001
970	4	-3.439992E-002	-7.534265E-003	-1.213877E-001	-2.658608E-001
970	5	-3.372038E-002	-7.386862E-003	-1.189908E-001	-2.686609E-001
970	6	-3.304197E-002	-7.460617E-003	-1.166010E-001	-2.632613E-001
970	7	-3.372192E-002	-7.534261E-003	-1.189966E-001	-2.658607E-001
970	8	-3.439862E-002	-7.460617E-003	-1.213848E-001	-2.632613E-001
970	9	-3.372158E-002	-7.460617E-003	-1.189954E-001	-2.632613E-001
971	1	-3.645368E-002	-7.420526E-003	-1.286331E-001	-2.618489E-001
971	2	-3.483288E-002	-7.420612E-003	-1.229148E-001	-2.618508E-001
971	3	-3.483335E-002	-7.596944E-003	-1.229152E-001	-2.680726E-001
971	4	-3.645488E-002	-7.596917E-003	-1.286341E-001	-2.680727E-001
971	5	-3.564289E-002	-7.420632E-003	-1.257743E-001	-2.618524E-001
971	6	-3.483221E-002	-7.508709E-003	-1.229166E-001	-2.649609E-001
971	7	-3.564296E-002	-7.596945E-003	-1.257740E-001	-2.680726E-001
971	8	-3.645368E-002	-7.508709E-003	-1.286369E-001	-2.649609E-001
971	9	-3.564340E-002	-7.508709E-003	-1.257734E-001	-2.649609E-001
972	1	-3.801392E-002	-6.993549E-003	-1.341408E-001	-2.467794E-001
972	2	-3.685701E-002	-6.993520E-003	-1.300607E-001	-2.467815E-001
972	3	-3.685868E-002	-7.119115E-003	-1.300625E-001	-2.512109E-001
972	4	-3.801638E-002	-7.119084E-003	-1.341428E-001	-2.512109E-001
972	5	-3.743728E-002	-6.993557E-003	-1.321016E-001	-2.467788E-001
972	6	-3.685746E-002	-7.056288E-003	-1.300580E-001	-2.489969E-001
972	7	-3.743634E-002	-7.119114E-003	-1.321021E-001	-2.512147E-001
972	8	-3.801606E-002	-7.056288E-003	-1.341418E-001	-2.489969E-001
972	9	-3.743633E-002	-7.056288E-003	-1.321011E-001	-2.489969E-001
973	1	-3.849812E-002	-5.775713E-003	-1.358510E-001	-2.038067E-001
973	2	-3.822349E-002	-5.775608E-003	-1.348780E-001	-2.038050E-001
973	3	-3.822372E-002	-5.805646E-003	-1.348786E-001	-2.048614E-001
973	4	-3.849861E-002	-5.805612E-003	-1.358492E-001	-2.048612E-001
973	5	-3.836073E-002	-5.775723E-003	-1.353638E-001	-2.038060E-001
973	6	-3.822451E-002	-5.790590E-003	-1.348807E-001	-2.043338E-001
973	7	-3.836073E-002	-5.805643E-003	-1.353638E-001	-2.048613E-001
973	8	-3.849789E-002	-5.790590E-003	-1.358501E-001	-2.043338E-001
973	9	-3.836073E-002	-5.790590E-003	-1.353638E-001	-2.043338E-001
974	1	-3.015777E-002	-6.090216E-003	-1.064194E-001	-2.149854E-001
974	2	-2.946510E-002	-6.090290E-003	-1.039734E-001	-2.149878E-001
974	3	-2.946548E-002	-6.165236E-003	-1.039739E-001	-2.175578E-001
974	4	-3.015889E-002	-6.165344E-003	-1.064267E-001	-2.175576E-001
974	5	-2.981236E-002	-6.090144E-003	-1.051983E-001	-2.149832E-001
974	6	-2.946402E-002	-6.127715E-003	-1.039722E-001	-2.162308E-001
974	7	-2.981243E-002	-6.165333E-003	-1.051992E-001	-2.175573E-001
974	8	-3.015880E-002	-6.127715E-003	-1.064198E-001	-2.162308E-001
974	9	-2.981203E-002	-6.127715E-003	-1.051985E-001	-2.162308E-001
975	1	-2.742816E-002	-2.676233E-003	-9.675661E-002	-9.443336E-002
975	2	-2.724942E-002	-2.676894E-003	-9.615597E-002	-9.443291E-002
975	3	-2.724928E-002	-2.694542E-003	-9.615871E-002	-9.508359E-002
975	4	-2.741981E-002	-2.694532E-003	-9.675143E-002	-9.508102E-002
975	5	-2.733475E-002	-2.676854E-003	-9.645613E-002	-9.443238E-002
975	6	-2.724981E-002	-2.685315E-003	-9.615356E-002	-9.475841E-002
975	7	-2.733530E-002	-2.694460E-003	-9.645393E-002	-9.508121E-002
975	8	-2.741918E-002	-2.685319E-003	-9.675815E-002	-9.475831E-002
975	9	-2.733462E-002	-2.685359E-003	-9.645546E-002	-9.475724E-002
976	1	-2.769971E-002	-3.414070E-003	-9.774167E-002	-1.204717E-001
976	2	-2.746285E-002	-3.414051E-003	-9.691036E-002	-1.204713E-001
976	3	-2.746340E-002	-3.439783E-003	-9.691121E-002	-1.213798E-001
976	4	-2.769992E-002	-3.439748E-003	-9.774260E-002	-1.213797E-001
976	5	-2.758155E-002	-3.414120E-003	-9.732606E-002	-1.204734E-001
976	6	-2.746398E-002	-3.426883E-003	-9.691143E-002	-1.209249E-001
976	7	-2.758187E-002	-3.439748E-003	-9.732743E-002	-1.213797E-001

976	8	-2.770050E-002	-3.426883E-003	-9.774105E-002	-1.209249E-001
976	9	-2.758134E-002	-3.426883E-003	-9.732513E-002	-1.209249E-001
977	1	-2.808720E-002	-4.130942E-003	-9.911387E-002	-1.457705E-001
977	2	-2.777903E-002	-4.130925E-003	-9.802314E-002	-1.457702E-001
977	3	-2.777890E-002	-4.164602E-003	-9.802430E-002	-1.469586E-001
977	4	-2.808847E-002	-4.164563E-003	-9.911347E-002	-1.469584E-001
977	5	-2.793380E-002	-4.130993E-003	-9.856925E-002	-1.457684E-001
977	6	-2.777962E-002	-4.147788E-003	-9.802604E-002	-1.463625E-001
977	7	-2.793380E-002	-4.164685E-003	-9.856925E-002	-1.469585E-001
977	8	-2.808913E-002	-4.147788E-003	-9.911504E-002	-1.463625E-001
977	9	-2.793380E-002	-4.147788E-003	-9.856925E-002	-1.463625E-001
978	1	-2.860696E-002	-4.822522E-003	-1.009432E-001	-1.701707E-001
978	2	-2.819248E-002	-4.822506E-003	-9.948396E-002	-1.701742E-001
978	3	-2.819258E-002	-4.867315E-003	-9.948830E-002	-1.717540E-001
978	4	-2.860581E-002	-4.867271E-003	-1.009407E-001	-1.717536E-001
978	5	-2.839917E-002	-4.822574E-003	-1.002154E-001	-1.701725E-001
978	6	-2.819320E-002	-4.844876E-003	-9.948548E-002	-1.709630E-001
978	7	-2.839917E-002	-4.867395E-003	-1.002154E-001	-1.717538E-001
978	8	-2.860601E-002	-4.844876E-003	-1.009420E-001	-1.709630E-001
978	9	-2.839917E-002	-4.844876E-003	-1.002154E-001	-1.709630E-001
979	1	-2.928381E-002	-5.479279E-003	-1.033364E-001	-1.933455E-001
979	2	-2.874400E-002	-5.479242E-003	-1.014313E-001	-1.933458E-001
979	3	-2.874350E-002	-5.538076E-003	-1.014294E-001	-1.954218E-001
979	4	-2.928538E-002	-5.538151E-003	-1.033427E-001	-1.954206E-001
979	5	-2.901488E-002	-5.479249E-003	-1.023829E-001	-1.933458E-001
979	6	-2.874582E-002	-5.508598E-003	-1.014306E-001	-1.943834E-001
979	7	-2.901488E-002	-5.538121E-003	-1.023829E-001	-1.954197E-001
979	8	-2.928658E-002	-5.508726E-003	-1.033396E-001	-1.943858E-001
979	9	-2.901488E-002	-5.508649E-003	-1.023829E-001	-1.943851E-001
980	1	-2.700626E-002	-3.982813E-004	-9.529873E-002	-1.405568E-002
980	2	-2.702902E-002	-3.983097E-004	-9.537857E-002	-1.405665E-002
980	3	-2.702880E-002	-3.957872E-004	-9.537840E-002	-1.396374E-002
980	4	-2.700515E-002	-3.957607E-004	-9.529811E-002	-1.396400E-002
980	5	-2.701787E-002	-3.981987E-004	-9.533927E-002	-1.405343E-002
980	6	-2.702897E-002	-3.969663E-004	-9.537872E-002	-1.400913E-002
980	7	-2.701810E-002	-3.957317E-004	-9.533938E-002	-1.396387E-002
980	8	-2.700762E-002	-3.969663E-004	-9.529652E-002	-1.400913E-002
980	9	-2.701806E-002	-3.969663E-004	-9.533865E-002	-1.400913E-002
981	1	-2.707923E-002	-1.162371E-003	-9.555636E-002	-4.101732E-002
981	2	-2.701274E-002	-1.162415E-003	-9.531784E-002	-4.101837E-002
981	3	-2.701203E-002	-1.169667E-003	-9.531682E-002	-4.127213E-002
981	4	-2.707895E-002	-1.169639E-003	-9.555144E-002	-4.127235E-002
981	5	-2.704585E-002	-1.162289E-003	-9.543499E-002	-4.101516E-002
981	6	-2.701278E-002	-1.165998E-003	-9.532116E-002	-4.114405E-002
981	7	-2.704561E-002	-1.169551E-003	-9.543512E-002	-4.127224E-002
981	8	-2.707991E-002	-1.165998E-003	-9.555525E-002	-4.114405E-002
981	9	-2.704556E-002	-1.165998E-003	-9.543819E-002	-4.114405E-002
982	1	-2.721059E-002	-1.925283E-003	-9.601407E-002	-6.793901E-002
982	2	-2.710497E-002	-1.925251E-003	-9.564261E-002	-6.793623E-002
982	3	-2.710449E-002	-1.936709E-003	-9.564586E-002	-6.834099E-002
982	4	-2.720949E-002	-1.936679E-003	-9.601348E-002	-6.834114E-002
982	5	-2.715675E-002	-1.925280E-003	-9.583088E-002	-6.793635E-002
982	6	-2.710467E-002	-1.930912E-003	-9.564590E-002	-6.813682E-002
982	7	-2.715700E-002	-1.936711E-003	-9.583025E-002	-6.834106E-002
982	8	-2.721004E-002	-1.930912E-003	-9.601949E-002	-6.813682E-002
982	9	-2.715694E-002	-1.930912E-003	-9.582567E-002	-6.813682E-002
983	1	-2.544984E-002	-3.721005E-003	-8.980237E-002	-1.313037E-001
983	2	-3.462258E-002	-3.706625E-003	-1.221710E-001	-1.307941E-001
983	3	-3.499930E-002	-2.698616E-003	-1.235057E-001	-9.494805E-002
983	4	-2.658754E-002	-2.800361E-003	-9.381656E-002	-9.881544E-002

984	1	-2.107961E-002	-4.700832E-003	-7.438252E-002	-1.658850E-001
984	2	-2.107961E-002	-4.700832E-003	-7.438252E-002	-1.658850E-001
984	3	-2.107961E-002	-4.700832E-003	-7.438252E-002	-1.658850E-001
985	1	-1.805994E-002	-4.452353E-003	-6.372628E-001	-1.571046E+000
985	2	-1.805994E-002	-4.452353E-003	-6.372628E-001	-1.571046E+000
985	3	-1.805994E-002	-4.452353E-003	-6.372628E-001	-1.571046E+000
986	1	-1.821344E-002	-5.549509E-003	-6.426765E-001	-1.958189E+000
986	2	-1.580960E-002	-5.549513E-003	-5.578541E-001	-1.958188E+000
986	3	-1.516878E-002	-5.838150E-003	-5.352461E-001	-2.060040E+000
986	4	-1.807216E-002	-5.838147E-003	-6.376927E-001	-2.060038E+000
987	1	-2.312110E-002	-7.243899E-003	-8.158474E-001	-2.555788E+000
987	2	-2.835108E-002	-7.243112E-003	-7.181023E-001	-2.555786E+000
987	3	-2.041458E-002	-7.607133E-003	-7.203475E-001	-2.684236E+000
987	4	-2.321507E-002	-7.607115E-003	-8.191603E-001	-2.684234E+000
988	1	-2.519547E-002	-6.930571E-003	-8.890439E-001	-2.445504E+000
988	2	-2.760236E-002	-7.530997E-003	-9.739692E-001	-2.657378E+000
988	3	-2.743598E-002	-6.955668E-003	-9.681008E-001	-2.454370E+000
988	4	-2.502723E-002	-6.352236E-003	-8.831058E-001	-2.241424E+000
988	5	-2.640185E-002	-7.231472E-003	-9.316061E-001	-2.551688E+000
988	6	-2.751916E-002	-7.243385E-003	-9.710331E-001	-2.555885E+000
988	7	-2.623460E-002	-6.654677E-003	-9.257149E-001	-2.348161E+000
988	8	-2.511146E-002	-6.641496E-003	-8.860740E-001	-2.343487E+000
988	9	-2.631819E-002	-6.943152E-003	-9.286599E-001	-2.449961E+000
989	1	-3.963646E-002	-7.173289E-003	-1.398674E-001	-2.531225E-001
989	2	-3.736157E-002	-7.173261E-003	-1.318360E-001	-2.531247E-001
989	3	-3.736000E-002	-7.419838E-003	-1.318353E-001	-2.618236E-001
989	4	-3.963788E-002	-7.419873E-003	-1.398692E-001	-2.618237E-001
989	5	-3.849927E-002	-7.173263E-003	-1.358533E-001	-2.531238E-001
989	6	-3.736106E-002	-7.296527E-003	-1.318371E-001	-2.574718E-001
989	7	-3.849934E-002	-7.419810E-003	-1.358521E-001	-2.618217E-001
989	8	-3.963669E-002	-7.296527E-003	-1.398645E-001	-2.574718E-001
989	9	-3.849803E-002	-7.296527E-003	-1.358525E-001	-2.574718E-001
990	1	-3.992418E-002	-5.809358E-003	-1.400814E-001	-2.049953E-001
990	2	-3.996207E-002	-5.809406E-003	-1.410155E-001	-2.049973E-001
990	3	-3.996326E-002	-5.805280E-003	-1.410161E-001	-2.048510E-001
990	4	-3.992517E-002	-5.805200E-003	-1.400862E-001	-2.048513E-001
990	5	-3.994394E-002	-5.809396E-003	-1.409514E-001	-2.049965E-001
990	6	-3.996320E-002	-5.807250E-003	-1.410172E-001	-2.049228E-001
990	7	-3.994394E-002	-5.805345E-003	-1.409514E-001	-2.048492E-001
990	8	-3.992395E-002	-5.807250E-003	-1.400843E-001	-2.049228E-001
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991	1	-2.859238E-002	-5.555585E-003	-1.008938E-001	-1.960410E-001
991	2	-2.801722E-002	-5.555545E-003	-9.886628E-002	-1.960377E-001
991	3	-2.801936E-002	-5.617825E-003	-9.886713E-002	-1.982373E-001
991	4	-2.859256E-002	-5.617836E-003	-1.008935E-001	-1.982378E-001
991	5	-2.830539E-002	-5.555522E-003	-9.988006E-002	-1.960389E-001
991	6	-2.801823E-002	-5.586606E-003	-9.886837E-002	-1.971365E-001
991	7	-2.830539E-002	-5.617901E-003	-9.988006E-002	-1.982365E-001
991	8	-2.859152E-002	-5.586744E-003	-1.008904E-001	-1.971392E-001
991	9	-2.830539E-002	-5.586693E-003	-9.988006E-002	-1.971379E-001
992	1	-2.952684E-002	-6.187986E-003	-1.041923E-001	-2.183575E-001
992	2	-2.878303E-002	-6.187969E-003	-1.015677E-001	-2.183547E-001
992	3	-2.878453E-002	-6.268636E-003	-1.015690E-001	-2.212046E-001
992	4	-2.952864E-002	-6.268704E-003	-1.041995E-001	-2.212019E-001
992	5	-2.915535E-002	-6.187946E-003	-1.028795E-001	-2.183540E-001
992	6	-2.878457E-002	-6.228347E-003	-1.015693E-001	-2.197793E-001
992	7	-2.915545E-002	-6.268714E-003	-1.028844E-001	-2.212032E-001
992	8	-2.952786E-002	-6.228347E-003	-1.041964E-001	-2.197793E-001
992	9	-2.915564E-002	-6.228347E-003	-1.028803E-001	-2.197793E-001
993	1	-3.073158E-002	-6.762485E-003	-1.084438E-001	-2.386301E-001

993	2	-2.977505E-002	-6.762472E-003	-1.050681E-001	-2.386304E-001
993	3	-2.977452E-002	-6.866497E-003	-1.050670E-001	-2.423018E-001
993	4	-3.073215E-002	-6.866538E-003	-1.084461E-001	-2.422985E-001
993	5	-3.025359E-002	-6.762488E-003	-1.067534E-001	-2.386299E-001
993	6	-2.977480E-002	-6.814515E-003	-1.050673E-001	-2.404659E-001
993	7	-3.025341E-002	-6.866577E-003	-1.067540E-001	-2.422997E-001
993	8	-3.073139E-002	-6.814515E-003	-1.084392E-001	-2.404659E-001
993	9	-3.025326E-002	-6.814515E-003	-1.067549E-001	-2.404659E-001
994	1	-3.227927E-002	-7.245618E-003	-1.138997E-001	-2.556777E-001
994	2	-3.104999E-002	-7.245720E-003	-1.095688E-001	-2.556779E-001
994	3	-3.105044E-002	-7.379187E-003	-1.095692E-001	-2.603928E-001
994	4	-3.227786E-002	-7.379265E-003	-1.139007E-001	-2.603904E-001
994	5	-3.166435E-002	-7.245701E-003	-1.117329E-001	-2.556774E-001
994	6	-3.105816E-002	-7.312480E-003	-1.095664E-001	-2.580367E-001
994	7	-3.166435E-002	-7.379182E-003	-1.117329E-001	-2.603916E-001
994	8	-3.227786E-002	-7.312480E-003	-1.139045E-001	-2.580367E-001
994	9	-3.166435E-002	-7.312480E-003	-1.117329E-001	-2.580367E-001
995	1	-3.426834E-002	-7.580545E-003	-1.209202E-001	-2.674957E-001
995	2	-3.268605E-002	-7.580628E-003	-1.153435E-001	-2.674957E-001
995	3	-3.268783E-002	-7.752006E-003	-1.153452E-001	-2.735421E-001
995	4	-3.426646E-002	-7.751970E-003	-1.209155E-001	-2.735437E-001
995	5	-3.347759E-002	-7.580536E-003	-1.181291E-001	-2.674953E-001
995	6	-3.268831E-002	-7.666298E-003	-1.153442E-001	-2.705194E-001
995	7	-3.347748E-002	-7.752003E-003	-1.181311E-001	-2.735448E-001
995	8	-3.426788E-002	-7.666298E-003	-1.209173E-001	-2.705194E-001
995	9	-3.347658E-002	-7.666298E-003	-1.181303E-001	-2.705194E-001
996	1	-3.674187E-002	-7.653593E-003	-1.296561E-001	-2.700728E-001
996	2	-3.478287E-002	-7.653594E-003	-1.227353E-001	-2.700685E-001
996	3	-3.478257E-002	-7.866521E-003	-1.227352E-001	-2.775861E-001
996	4	-3.674426E-002	-7.866785E-003	-1.296542E-001	-2.775944E-001
996	5	-3.576121E-002	-7.653562E-003	-1.261929E-001	-2.700735E-001
996	6	-3.478234E-002	-7.759996E-003	-1.227338E-001	-2.738248E-001
996	7	-3.576218E-002	-7.866669E-003	-1.261925E-001	-2.775917E-001
996	8	-3.674402E-002	-7.760179E-003	-1.296571E-001	-2.738335E-001
996	9	-3.576169E-002	-7.760088E-003	-1.261939E-001	-2.738294E-001
997	1	-2.690521E-002	-3.447358E-003	-9.493859E-002	-1.216441E-001
997	2	-2.666381E-002	-3.447369E-003	-9.408519E-002	-1.216454E-001
997	3	-2.666208E-002	-3.473713E-003	-9.408327E-002	-1.225767E-001
997	4	-2.690522E-002	-3.473648E-003	-9.493975E-002	-1.225736E-001
997	5	-2.678375E-002	-3.447198E-003	-9.451257E-002	-1.216426E-001
997	6	-2.666312E-002	-3.460521E-003	-9.408280E-002	-1.221104E-001
997	7	-2.678390E-002	-3.473663E-003	-9.451238E-002	-1.225751E-001
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997	9	-2.678407E-002	-3.460521E-003	-9.451275E-002	-1.221104E-001
998	1	-2.732060E-002	-4.174642E-003	-9.640855E-002	-1.473130E-001
998	2	-2.698889E-002	-4.174656E-003	-9.523584E-002	-1.473146E-001
998	3	-2.698871E-002	-4.210700E-003	-9.523731E-002	-1.485829E-001
998	4	-2.732094E-002	-4.210638E-003	-9.640823E-002	-1.485837E-001
998	5	-2.715455E-002	-4.174692E-003	-9.581871E-002	-1.473119E-001
998	6	-2.698935E-002	-4.192661E-003	-9.523491E-002	-1.479483E-001
998	7	-2.715455E-002	-4.210686E-003	-9.581871E-002	-1.485814E-001
998	8	-2.731995E-002	-4.192661E-003	-9.640320E-002	-1.479483E-001
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999	1	-2.786997E-002	-4.880585E-003	-9.834864E-002	-1.722236E-001
999	2	-2.743168E-002	-4.880587E-003	-9.680032E-002	-1.722251E-001
999	3	-2.743172E-002	-4.920188E-003	-9.680089E-002	-1.739003E-001
999	4	-2.787159E-002	-4.920129E-003	-9.834803E-002	-1.739012E-001
999	5	-2.765148E-002	-4.880748E-003	-9.757761E-002	-1.722263E-001
999	6	-2.743242E-002	-4.904454E-003	-9.680220E-002	-1.730637E-001
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999	8	-2.787155E-002	-4.904454E-003	-9.835012E-002	-1.730637E-001
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1000	1	-2.616829E-002	-3.955485E-004	-9.233921E-002	-1.395663E-002
1000	2	-2.615928E-002	-3.955844E-004	-9.230725E-002	-1.395659E-002
1000	3	-2.615918E-002	-3.963801E-004	-9.230707E-002	-1.398698E-002
1000	4	-2.616719E-002	-3.964808E-004	-9.233480E-002	-1.398639E-002
1000	5	-2.616349E-002	-3.954147E-004	-9.232178E-002	-1.395685E-002
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1000	7	-2.616278E-002	-3.963112E-004	-9.232194E-002	-1.398859E-002
1000	8	-2.616774E-002	-3.959720E-004	-9.233700E-002	-1.397214E-002
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1001	1	-2.624251E-002	-1.171719E-003	-9.260614E-002	-4.134510E-002
1001	2	-2.617808E-002	-1.171695E-003	-9.237635E-002	-4.134537E-002
1001	3	-2.617764E-002	-1.178716E-003	-9.237742E-002	-4.159364E-002
1001	4	-2.624319E-002	-1.178817E-003	-9.260505E-002	-4.159306E-002
1001	5	-2.621135E-002	-1.171729E-003	-9.248989E-002	-4.134564E-002
1001	6	-2.617785E-002	-1.175239E-003	-9.237204E-002	-4.146996E-002
1001	7	-2.621112E-002	-1.178707E-003	-9.249008E-002	-4.159525E-002
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1002	1	-2.638535E-002	-1.940208E-003	-9.310833E-002	-6.846122E-002
1002	2	-2.626956E-002	-1.940161E-003	-9.269704E-002	-6.846108E-002
1002	3	-2.626994E-002	-1.952591E-003	-9.269725E-002	-6.890264E-002
1002	4	-2.638425E-002	-1.952692E-003	-9.310396E-002	-6.890208E-002
1002	5	-2.632718E-002	-1.940073E-003	-9.290181E-002	-6.846091E-002
1002	6	-2.627024E-002	-1.946412E-003	-9.269778E-002	-6.868266E-002
1002	7	-2.632744E-002	-1.952641E-003	-9.290124E-002	-6.890427E-002
1002	8	-2.638480E-002	-1.946412E-003	-9.310233E-002	-6.868266E-002
1002	9	-2.632738E-002	-1.946412E-003	-9.290045E-002	-6.868266E-002
1003	1	-2.660134E-002	-2.700017E-003	-9.386930E-002	-9.527615E-002
1003	2	-2.642773E-002	-2.700063E-003	-9.325539E-002	-9.527721E-002
1003	3	-2.642627E-002	-2.718807E-003	-9.324986E-002	-9.593967E-002
1003	4	-2.660161E-002	-2.718847E-003	-9.387149E-002	-9.594114E-002
1003	5	-2.651426E-002	-2.700119E-003	-9.355823E-002	-9.527436E-002
1003	6	-2.642756E-002	-2.709491E-003	-9.325471E-002	-9.560847E-002
1003	7	-2.651384E-002	-2.719006E-003	-9.355819E-002	-9.594148E-002
1003	8	-2.659984E-002	-2.709435E-003	-9.386712E-002	-9.560729E-002
1003	9	-2.651411E-002	-2.709458E-003	-9.355848E-002	-9.560808E-002
1004	1	-2.460556E-002	-8.204808E-003	-8.682251E-001	-2.895131E+000
1004	2	-1.649192E-002	-8.151738E-003	-5.819296E-001	-2.876407E+000
1004	3	-1.663876E-002	-9.294296E-003	-5.871153E-001	-3.279565E+000
1004	4	-2.491697E-002	-9.499042E-003	-8.792127E-001	-3.351815E+000
1005	1	-1.388594E-002	-5.956915E-003	-4.899802E-001	-2.101944E+000
1005	2	-1.417313E-002	-5.950785E-003	-5.001085E-001	-2.102607E+000
1005	3	-1.417605E-002	-5.989767E-003	-5.002166E-001	-2.085312E+000
1005	4	-1.388337E-002	-5.982490E-003	-4.898840E-001	-2.082739E+000
1006	1	-3.404619E-002	-1.849330E-003	-1.281396E-001	-6.525560E-002
1006	2	-3.540532E-002	-2.250950E-003	-1.249352E-001	-7.942849E-002
1006	3	-3.839697E-002	-2.172498E-003	-1.354901E-001	-7.666198E-002
1006	4	-3.776853E-002	-1.591384E-003	-1.332737E-001	-5.615541E-002
1007	1	-1.433732E-002	-4.468136E-003	-5.059054E-001	-1.576621E+000
1007	2	-1.415815E-002	-4.466862E-003	-4.995818E-001	-1.576173E+000
1007	3	-1.416504E-002	-4.504245E-003	-4.998243E-001	-1.589360E+000
1007	4	-1.433674E-002	-4.508533E-003	-5.058836E-001	-1.590880E+000
1008	1	-1.366145E-002	-2.743919E-003	-4.820568E-001	-9.682056E-001
1008	2	-1.366145E-002	-2.743919E-003	-4.820568E-001	-9.682056E-001
1008	3	-1.366145E-002	-2.743919E-003	-4.820568E-001	-9.682056E-001
1009	1	-4.654328E-003	-9.134519E-003	-1.642341E-001	-3.223188E+000
1009	2	-1.191545E-002	-9.343874E-003	-4.204474E-001	-3.297056E+000
1009	3	-1.136124E-002	-7.744432E-003	-4.008899E-001	-2.732685E+000

1009	4	-4.870282E-003	-7.671725E-003	-1.436259E-001	-2.707029E+000
1009	5	-8.122111E-003	-9.234476E-003	-2.865936E-001	-3.258462E+000
1009	6	-1.164006E-002	-8.548821E-003	-4.107272E-001	-3.016521E+000
1009	7	-7.558289E-003	-7.706447E-003	-2.664186E-001	-2.719278E+000
1009	8	-4.363793E-003	-8.407832E-003	-1.539842E-001	-2.966408E+000
1009	9	-7.837834E-003	-8.474720E-003	-2.765611E-001	-2.990375E+000
1010	1	-3.699590E-002	-7.934778E-003	-1.305449E-001	-2.799935E-001
1010	2	-3.466684E-002	-7.934267E-003	-1.223248E-001	-2.799770E-001
1010	3	-3.466490E-002	-8.187681E-003	-1.223251E-001	-2.889206E-001
1010	4	-3.699614E-002	-8.187640E-003	-1.305458E-001	-2.889196E-001
1010	5	-3.583090E-002	-7.934488E-003	-1.264389E-001	-2.799827E-001
1010	6	-3.466464E-002	-8.060951E-003	-1.223233E-001	-2.844474E-001
1010	7	-3.583182E-002	-8.187666E-003	-1.264383E-001	-2.889158E-001
1010	8	-3.699590E-002	-8.061158E-003	-1.305487E-001	-2.844564E-001
1010	9	-3.583136E-002	-8.061877E-003	-1.264379E-001	-2.844512E-001
1011	1	-4.118517E-002	-7.508753E-003	-1.453266E-001	-2.649609E-001
1011	2	-3.782289E-002	-7.508698E-003	-1.334645E-001	-2.649610E-001
1011	3	-3.782291E-002	-7.873532E-003	-1.334673E-001	-2.778318E-001
1011	4	-4.118396E-002	-7.873438E-003	-1.453256E-001	-2.778326E-001
1011	5	-3.950426E-002	-7.508713E-003	-1.393993E-001	-2.649629E-001
1011	6	-3.782317E-002	-7.691082E-003	-1.334691E-001	-2.713961E-001
1011	7	-3.950439E-002	-7.873471E-003	-1.394002E-001	-2.778336E-001
1011	8	-4.118445E-002	-7.691082E-003	-1.453275E-001	-2.713961E-001
1011	9	-3.950480E-002	-7.691082E-003	-1.394009E-001	-2.713961E-001
1012	1	-4.329289E-002	-5.827025E-003	-1.527565E-001	-2.056167E-001
1012	2	-4.187975E-002	-5.826871E-003	-1.477780E-001	-2.056170E-001
1012	3	-4.187923E-002	-5.980399E-003	-1.477827E-001	-2.110304E-001
1012	4	-4.329268E-002	-5.980304E-003	-1.527585E-001	-2.110311E-001
1012	5	-4.258586E-002	-5.826894E-003	-1.502722E-001	-2.056149E-001
1012	6	-4.187989E-002	-5.903665E-003	-1.477801E-001	-2.083248E-001
1012	7	-4.258586E-002	-5.980575E-003	-1.502722E-001	-2.110322E-001
1012	8	-4.329186E-002	-5.903665E-003	-1.527594E-001	-2.083248E-001
1012	9	-4.258586E-002	-5.903665E-003	-1.502722E-001	-2.083248E-001
1013	1	-3.406797E-002	-7.804911E-003	-1.202160E-001	-2.754156E-001
1013	2	-3.228608E-002	-7.804949E-003	-1.139261E-001	-2.754156E-001
1013	3	-3.228440E-002	-7.997902E-003	-1.139217E-001	-2.822202E-001
1013	4	-3.406607E-002	-7.997815E-003	-1.202112E-001	-2.822213E-001
1013	5	-3.317632E-002	-7.804940E-003	-1.170693E-001	-2.754152E-001
1013	6	-3.228556E-002	-7.901479E-003	-1.139272E-001	-2.788199E-001
1013	7	-3.317673E-002	-7.997963E-003	-1.170696E-001	-2.822260E-001
1013	8	-3.406725E-002	-7.901479E-003	-1.202131E-001	-2.788199E-001
1013	9	-3.317628E-002	-7.901479E-003	-1.170683E-001	-2.788199E-001
1014	1	-2.578053E-002	-2.724288E-003	-9.097141E-002	-9.613477E-002
1014	2	-2.559462E-002	-2.724355E-003	-9.031652E-002	-9.613472E-002
1014	3	-2.559655E-002	-2.744319E-003	-9.031801E-002	-9.683854E-002
1014	4	-2.578013E-002	-2.744453E-003	-9.097098E-002	-9.684006E-002
1014	5	-2.568793E-002	-2.724292E-003	-9.064452E-002	-9.613362E-002
1014	6	-2.559576E-002	-2.734338E-003	-9.031869E-002	-9.648624E-002
1014	7	-2.568762E-002	-2.744267E-003	-9.064437E-002	-9.684066E-002
1014	8	-2.577998E-002	-2.734299E-003	-9.097306E-002	-9.648786E-002
1014	9	-2.568730E-002	-2.734392E-003	-9.064472E-002	-9.648696E-002
1015	1	-2.610022E-002	-3.481533E-003	-9.210242E-001	-1.228518E-001
1015	2	-2.584378E-002	-3.481459E-003	-9.119442E-001	-1.228518E-001
1015	3	-2.584372E-002	-3.509477E-003	-9.119487E-002	-1.238368E-001
1015	4	-2.610025E-002	-3.509474E-003	-9.209980E-002	-1.238378E-001
1015	5	-2.597154E-002	-3.481476E-003	-9.164806E-002	-1.228529E-001
1015	6	-2.584369E-002	-3.495496E-003	-9.119441E-002	-1.233466E-001
1015	7	-2.597262E-002	-3.509459E-003	-9.164776E-002	-1.238373E-001
1015	8	-2.610185E-002	-3.495496E-003	-9.209920E-002	-1.233466E-001
1015	9	-2.597184E-002	-3.495496E-003	-9.164818E-002	-1.233466E-001

1016	1	-2.653606E-002	-4.221363E-003	-9.363299E-002	-1.489619E-001
1016	2	-2.618723E-002	-4.221430E-003	-9.240589E-002	-1.489585E-001
1016	3	-2.618775E-002	-4.259173E-003	-9.241114E-002	-1.502926E-001
1016	4	-2.653452E-002	-4.259167E-003	-9.363656E-002	-1.502935E-001
1016	5	-2.636186E-002	-4.221337E-003	-9.302142E-002	-1.489600E-001
1016	6	-2.618825E-002	-4.240313E-003	-9.240828E-002	-1.496264E-001
1016	7	-2.636186E-002	-4.259186E-003	-9.302142E-002	-1.502930E-001
1016	8	-2.653516E-002	-4.240313E-003	-9.363425E-002	-1.496264E-001
1016	9	-2.636186E-002	-4.240313E-003	-9.302142E-002	-1.496264E-001
1017	1	-2.711453E-002	-4.942279E-003	-9.568388E-002	-1.744007E-001
1017	2	-2.665333E-002	-4.942331E-003	-9.405100E-002	-1.744018E-001
1017	3	-2.665346E-002	-4.992625E-003	-9.405163E-002	-1.761734E-001
1017	4	-2.711604E-002	-4.992616E-003	-9.568781E-002	-1.761742E-001
1017	5	-2.688487E-002	-4.942366E-003	-9.486642E-002	-1.743989E-001
1017	6	-2.665263E-002	-4.967500E-003	-9.404971E-002	-1.752887E-001
1017	7	-2.688487E-002	-4.992637E-003	-9.486642E-002	-1.761738E-001
1017	8	-2.711541E-002	-4.967500E-003	-9.568637E-002	-1.752887E-001
1017	9	-2.688487E-002	-4.967500E-003	-9.486642E-002	-1.752887E-001
1018	1	-2.787193E-002	-5.636337E-003	-9.835101E-002	-1.988897E-001
1018	2	-2.727116E-002	-5.636411E-003	-9.623266E-002	-1.988905E-001
1018	3	-2.726979E-002	-5.701746E-003	-9.622630E-002	-2.011998E-001
1018	4	-2.787114E-002	-5.701853E-003	-9.835064E-002	-2.012005E-001
1018	5	-2.757138E-002	-5.636434E-003	-9.728964E-002	-1.988918E-001
1018	6	-2.727121E-002	-5.669101E-003	-9.623139E-002	-2.000475E-001
1018	7	-2.757138E-002	-5.701757E-003	-9.728964E-002	-2.012002E-001
1018	8	-2.787176E-002	-5.669101E-003	-9.835412E-002	-2.000475E-001
1018	9	-2.757138E-002	-5.669101E-003	-9.728964E-002	-2.000475E-001
1019	1	-2.886290E-002	-6.292846E-003	-1.018498E-001	-2.220568E-001
1019	2	-2.807318E-002	-6.292916E-003	-9.986263E-002	-2.220582E-001
1019	3	-2.807482E-002	-6.378366E-003	-9.986729E-002	-2.250752E-001
1019	4	-2.886234E-002	-6.378470E-003	-1.018457E-001	-2.250757E-001
1019	5	-2.846865E-002	-6.292807E-003	-1.004568E-001	-2.220552E-001
1019	6	-2.807473E-002	-6.335682E-003	-9.986431E-002	-2.235679E-001
1019	7	-2.846879E-002	-6.378462E-003	-1.004580E-001	-2.250754E-001
1019	8	-2.886202E-002	-6.335682E-003	-1.018454E-001	-2.235679E-001
1019	9	-2.846880E-002	-6.335682E-003	-1.004577E-001	-2.235679E-001
1020	1	-3.015096E-002	-6.897882E-003	-1.063919E-001	-2.434062E-001
1020	2	-2.912568E-002	-6.897852E-003	-1.027781E-001	-2.434078E-001
1020	3	-2.912622E-002	-7.009308E-003	-1.027770E-001	-2.473389E-001
1020	4	-3.015011E-002	-7.009321E-003	-1.063913E-001	-2.473393E-001
1020	5	-2.963875E-002	-6.897863E-003	-1.045851E-001	-2.434047E-001
1020	6	-2.912638E-002	-6.953634E-003	-1.027773E-001	-2.453725E-001
1020	7	-2.963853E-002	-7.009314E-003	-1.045855E-001	-2.473391E-001
1020	8	-3.015172E-002	-6.953634E-003	-1.063987E-001	-2.453725E-001
1020	9	-2.963793E-002	-6.953634E-003	-1.045846E-001	-2.453725E-001
1021	1	-3.183151E-002	-7.419754E-003	-1.123189E-001	-2.618216E-001
1021	2	-3.049428E-002	-7.419896E-003	-1.076855E-001	-2.618225E-001
1021	3	-3.049500E-002	-7.565009E-003	-1.076056E-001	-2.669436E-001
1021	4	-3.183176E-002	-7.565246E-003	-1.123237E-001	-2.669574E-001
1021	5	-3.116208E-002	-7.419792E-003	-1.099626E-001	-2.618230E-001
1021	6	-3.049471E-002	-7.492340E-003	-1.076041E-001	-2.643849E-001
1021	7	-3.116208E-002	-7.565076E-003	-1.099626E-001	-2.669494E-001
1021	8	-3.183080E-002	-7.492562E-003	-1.123237E-001	-2.643907E-001
1021	9	-3.116208E-002	-7.492477E-003	-1.099626E-001	-2.643891E-001
1022	1	-2.532805E-002	-3.972365E-004	-8.937350E-002	-1.401477E-002
1022	2	-2.528677E-002	-3.972143E-004	-8.922820E-002	-1.401686E-002
1022	3	-2.528692E-002	-4.015572E-004	-8.923113E-002	-1.417118E-002
1022	4	-2.532629E-002	-4.015583E-004	-8.936991E-002	-1.416850E-002
1022	5	-2.530656E-002	-3.972850E-004	-8.930056E-002	-1.401891E-002
1022	6	-2.528617E-002	-3.993734E-004	-8.923118E-002	-1.409412E-002

1022	7	-2.530646E-002	-4.015406E-004	-8.930154E-002	-1.416793E-002
1022	8	-2.532589E-002	-3.993734E-004	-8.937012E-002	-1.409412E-002
1022	9	-2.530665E-002	-3.993734E-004	-8.929957E-002	-1.409412E-002
1023	1	-2.540312E-002	-1.180948E-003	-8.964490E-002	-4.167404E-002
1023	2	-2.532795E-002	-1.181016E-003	-8.937642E-002	-4.167233E-002
1023	3	-2.532801E-002	-1.189252E-003	-8.937564E-002	-4.196513E-002
1023	4	-2.540399E-002	-1.189160E-003	-8.964156E-002	-4.196242E-002
1023	5	-2.536545E-002	-1.181086E-003	-8.951041E-002	-4.167819E-002
1023	6	-2.532897E-002	-1.185150E-003	-8.937562E-002	-4.181894E-002
1023	7	-2.536578E-002	-1.189151E-003	-8.951174E-002	-4.196187E-002
1023	8	-2.540457E-002	-1.185150E-003	-8.964595E-002	-4.181894E-002
1023	9	-2.536602E-002	-1.185150E-003	-8.950915E-002	-4.181894E-002
1024	1	-2.555088E-002	-1.956467E-003	-9.016226E-002	-6.903532E-002
1024	2	-2.543204E-002	-1.956342E-003	-8.974341E-002	-6.903363E-002
1024	3	-2.543250E-002	-1.969225E-003	-8.974312E-002	-6.949111E-002
1024	4	-2.555074E-002	-1.969225E-003	-9.016173E-002	-6.948837E-002
1024	5	-2.549196E-002	-1.956412E-003	-8.995418E-002	-6.903567E-002
1024	6	-2.543260E-002	-1.962792E-003	-8.974333E-002	-6.926063E-002
1024	7	-2.549176E-002	-1.969208E-003	-8.995256E-002	-6.948783E-002
1024	8	-2.555224E-002	-1.962792E-003	-9.016009E-002	-6.926063E-002
1024	9	-2.549169E-002	-1.962792E-003	-8.995364E-002	-6.926063E-002
1025	1	-1.187296E-002	-5.820546E-003	-4.189424E-001	-2.053826E+000
1025	2	-1.177741E-002	-5.817772E-003	-4.155782E-001	-2.052848E+000
1025	3	-1.178234E-002	-5.836353E-003	-4.157498E-001	-2.059405E+000
1025	4	-1.187841E-002	-5.837306E-003	-4.191377E-001	-2.059746E+000
1025	5	-1.182783E-002	-5.819194E-003	-4.173526E-001	-2.053358E+000
1025	6	-1.177997E-002	-5.826996E-003	-4.156643E-001	-2.056100E+000
1025	7	-1.183297E-002	-5.836877E-003	-4.175355E-001	-2.059589E+000
1025	8	-1.187572E-002	-5.820066E-003	-4.190450E-001	-2.056765E+000
1025	9	-1.183031E-002	-5.827989E-003	-4.174443E-001	-2.056449E+000
1026	1	-5.918200E-002	+1.206133E-004	-2.088347E-001	+4.248376E-003
1026	2	-4.672463E-002	-9.157714E-004	-1.648779E-001	-3.231302E-002
1026	3	-4.672473E-002	-2.521363E-003	-1.648778E-001	-8.896686E-002
1026	4	-5.918077E-002	-1.969714E-003	-2.088308E-001	-6.950819E-002
1027	1	-1.142792E-002	-4.428701E-003	-4.032470E-001	-1.562786E+000
1027	2	-1.153972E-002	-4.431917E-003	-4.071924E-001	-1.563843E+000
1027	3	-1.153696E-002	-4.412938E-003	-4.070918E-001	-1.557141E+000
1027	4	-1.142382E-002	-4.411807E-003	-4.031030E-001	-1.556748E+000
1027	5	-1.148067E-002	-4.430216E-003	-4.051806E-001	-1.563237E+000
1027	6	-1.153047E-002	-4.422488E-003	-4.071423E-001	-1.560515E+000
1027	7	-1.147705E-002	-4.412322E-003	-4.049796E-001	-1.556927E+000
1027	8	-1.142599E-002	-4.420318E-003	-4.031743E-001	-1.559744E+000
1027	9	-1.147898E-002	-4.421339E-003	-4.050480E-001	-1.560103E+000
1028	1	-1.087726E-002	-2.722512E-003	-3.830869E-001	-9.686624E-001
1028	2	-7.212237E-003	-2.616911E-003	-2.544848E-001	-9.233949E-001
1028	3	-7.221463E-003	-3.150459E-003	-2.548147E-001	-1.111672E+000
1028	4	-1.093303E-002	-3.187379E-003	-3.857821E-001	-1.124690E+000
1028	5	-9.171619E-003	-2.673355E-003	-3.236312E-001	-9.433163E-001
1028	6	-7.216815E-003	-2.881683E-003	-2.546485E-001	-1.016829E+000
1028	7	-9.207862E-003	-3.178206E-003	-3.249044E-001	-1.118635E+000
1028	8	-1.090494E-002	-2.953439E-003	-3.847876E-001	-1.042144E+000
1028	9	-9.189610E-003	-2.928072E-003	-3.242621E-001	-1.030372E+000
1029	1	-3.132637E-002	-7.609006E-003	-1.105370E-001	-2.685005E-001
1029	2	-2.988859E-002	-7.608731E-003	-1.054664E-001	-2.684882E-001
1029	3	-2.988739E-002	-7.764972E-003	-1.054665E-001	-2.740030E-001
1029	4	-3.132591E-002	-7.765129E-003	-1.105418E-001	-2.740079E-001
1029	5	-3.060729E-002	-7.608903E-003	-1.080031E-001	-2.684947E-001
1029	6	-2.988720E-002	-7.686920E-003	-1.054612E-001	-2.712481E-001
1029	7	-3.060729E-002	-7.765183E-003	-1.080031E-001	-2.740059E-001
1029	8	-3.132400E-002	-7.687067E-003	-1.105380E-001	-2.712527E-001

1029	9	-3.060729E-002	-7.686923E-003	-1.080031E-001	-2.712505E-001
1030	1	-3.375987E-002	-8.056633E-003	-1.191237E-001	-2.842933E-001
1030	2	-3.181652E-002	-8.056545E-003	-1.122748E-001	-2.842942E-001
1030	3	-3.181548E-002	-8.267253E-003	-1.122699E-001	-2.917292E-001
1030	4	-3.375812E-002	-8.267282E-003	-1.191228E-001	-2.917291E-001
1030	5	-3.278738E-002	-8.056686E-003	-1.156966E-001	-2.842952E-001
1030	6	-3.181688E-002	-8.161979E-003	-1.122720E-001	-2.880122E-001
1030	7	-3.278736E-002	-8.267222E-003	-1.156970E-001	-2.917272E-001
1030	8	-3.375859E-002	-8.161979E-003	-1.191180E-001	-2.880122E-001
1030	9	-3.278785E-002	-8.161979E-003	-1.156961E-001	-2.880122E-001
1031	1	-3.723257E-002	-8.268462E-003	-1.313863E-001	-2.917722E-001
1031	2	-3.444641E-002	-8.268578E-003	-1.215493E-001	-2.917731E-001
1031	3	-3.444622E-002	-8.571674E-003	-1.215496E-001	-3.024669E-001
1031	4	-3.723303E-002	-8.571710E-003	-1.313843E-001	-3.024671E-001
1031	5	-3.583875E-002	-8.268602E-003	-1.264658E-001	-2.917741E-001
1031	6	-3.444586E-002	-8.420139E-003	-1.215478E-001	-2.971207E-001
1031	7	-3.583866E-002	-8.571647E-003	-1.264669E-001	-3.024689E-001
1031	8	-3.723184E-002	-8.420139E-003	-1.313796E-001	-2.971207E-001
1031	9	-3.583918E-002	-8.420139E-003	-1.264666E-001	-2.971207E-001
1032	1	-4.209953E-002	-7.988048E-003	-1.485555E-001	-2.818758E-001
1032	2	-3.820411E-002	-7.987954E-003	-1.348137E-001	-2.818727E-001
1032	3	-3.820489E-002	-8.411460E-003	-1.348152E-001	-2.968183E-001
1032	4	-4.210545E-002	-8.411502E-003	-1.485814E-001	-2.968187E-001
1032	5	-4.015111E-002	-7.988112E-003	-1.416822E-001	-2.818776E-001
1032	6	-3.820449E-002	-8.199619E-003	-1.348147E-001	-2.893403E-001
1032	7	-4.015617E-002	-8.411527E-003	-1.417013E-001	-2.968166E-001
1032	8	-4.210240E-002	-8.199619E-003	-1.485686E-001	-2.893403E-001
1032	9	-4.015389E-002	-8.199619E-003	-1.416904E-001	-2.893403E-001
1033	1	-5.013942E-002	-6.106543E-003	-1.769270E-001	-2.154812E-001
1033	2	-4.358236E-002	-6.106461E-003	-1.537869E-001	-2.154788E-001
1033	3	-4.359483E-002	-6.818303E-003	-1.538329E-001	-2.406003E-001
1033	4	-5.014090E-002	-6.818352E-003	-1.769303E-001	-2.406009E-001
1033	5	-4.686097E-002	-6.106607E-003	-1.653584E-001	-2.154829E-001
1033	6	-4.358786E-002	-6.462741E-003	-1.538087E-001	-2.280512E-001
1033	7	-4.686811E-002	-6.818373E-003	-1.653855E-001	-2.405987E-001
1033	8	-5.014162E-002	-6.462741E-003	-1.769313E-001	-2.280512E-001
1033	9	-4.686462E-002	-6.462741E-003	-1.653712E-001	-2.280512E-001
1034	1	-5.259541E-002	-3.205798E-003	-1.855919E-001	-1.131261E-001
1034	2	-5.259468E-002	-3.952182E-003	-1.855928E-001	-1.394559E-001
1034	3	-5.839667E-002	-4.088168E-003	-2.060662E-001	-1.442555E-001
1034	4	-5.839549E-002	-3.114632E-003	-2.060633E-001	-1.099100E-001
1035	1	-2.712975E-002	-5.721270E-003	-9.573038E-002	-2.018858E-001
1035	2	-2.649816E-002	-5.721320E-003	-9.350579E-002	-2.018888E-001
1035	3	-2.649941E-002	-5.789723E-003	-9.350654E-002	-2.043005E-001
1035	4	-2.712964E-002	-5.789639E-003	-9.572893E-002	-2.042996E-001
1035	5	-2.681424E-002	-5.721299E-003	-9.461937E-002	-2.018869E-001
1035	6	-2.649928E-002	-5.755463E-003	-9.350736E-002	-2.030947E-001
1035	7	-2.681424E-002	-5.789681E-003	-9.461937E-002	-2.043019E-001
1035	8	-2.712861E-002	-5.755463E-003	-9.572966E-002	-2.030947E-001
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1036	1	-2.816544E-002	-6.403871E-003	-9.938877E-002	-2.259762E-001
1036	2	-2.734139E-002	-6.403924E-003	-9.648009E-002	-2.259752E-001
1036	3	-2.734020E-002	-6.493257E-003	-9.647680E-002	-2.291297E-001
1036	4	-2.816581E-002	-6.493267E-003	-9.938926E-002	-2.291290E-001
1036	5	-2.775322E-002	-6.403869E-003	-9.793426E-002	-2.259772E-001
1036	6	-2.734056E-002	-6.448613E-003	-9.647892E-002	-2.275528E-001
1036	7	-2.775340E-002	-6.493306E-003	-9.793559E-002	-2.291275E-001
1036	8	-2.816645E-002	-6.448613E-003	-9.938902E-002	-2.275528E-001
1036	9	-2.775403E-002	-6.448613E-003	-9.793468E-002	-2.275528E-001
1037	1	-2.952100E-002	-7.042581E-003	-1.041715E-001	-2.485129E-001

1037	2	-2.844309E-002	-7.042623E-003	-1.003663E-001	-2.485113E-001
1037	3	-2.844276E-002	-7.159601E-003	-1.003652E-001	-2.526422E-001
1037	4	-2.952189E-002	-7.159616E-003	-1.041708E-001	-2.526417E-001
1037	5	-2.898179E-002	-7.042598E-003	-1.022694E-001	-2.485138E-001
1037	6	-2.844292E-002	-7.101128E-003	-1.003660E-001	-2.505779E-001
1037	7	-2.898248E-002	-7.159652E-003	-1.022670E-001	-2.526439E-001
1037	8	-2.952175E-002	-7.101128E-003	-1.041745E-001	-2.505779E-001
1037	9	-2.898202E-002	-7.101128E-003	-1.022688E-001	-2.505779E-001
1038	1	-2.446724E-002	-4.831618E-004	-8.633603E-002	-1.422486E-002
1038	2	-2.440961E-002	-4.830466E-004	-8.613683E-002	-1.422471E-002
1038	3	-2.440888E-002	-4.894323E-004	-8.613878E-002	-1.444818E-002
1038	4	-2.446683E-002	-4.893813E-004	-8.634202E-002	-1.444920E-002
1038	5	-2.443795E-002	-4.832681E-004	-8.623414E-002	-1.422053E-002
1038	6	-2.441800E-002	-4.863001E-004	-8.613309E-002	-1.433621E-002
1038	7	-2.443910E-002	-4.893642E-004	-8.623386E-002	-1.444865E-002
1038	8	-2.446751E-002	-4.863001E-004	-8.634093E-002	-1.433621E-002
1038	9	-2.443822E-002	-4.863001E-004	-8.623469E-002	-1.433621E-002
1039	1	-2.454934E-002	-1.191467E-003	-8.662966E-002	-4.204215E-002
1039	2	-2.448536E-002	-1.191415E-003	-8.640128E-002	-4.204212E-002
1039	3	-2.448492E-002	-1.198507E-003	-8.640052E-002	-4.229242E-002
1039	4	-2.454907E-002	-1.198457E-003	-8.662476E-002	-4.228972E-002
1039	5	-2.451736E-002	-1.191429E-003	-8.651423E-002	-4.204547E-002
1039	6	-2.448477E-002	-1.194948E-003	-8.639970E-002	-4.216798E-002
1039	7	-2.451755E-002	-1.198440E-003	-8.651392E-002	-4.229298E-002
1039	8	-2.455097E-002	-1.194948E-003	-8.663239E-002	-4.216798E-002
1039	9	-2.451762E-002	-1.194948E-003	-8.651476E-002	-4.216798E-002
1040	1	-2.471563E-002	-1.973182E-003	-8.721612E-002	-6.963283E-002
1040	2	-2.457850E-002	-1.973278E-003	-8.673100E-002	-6.963277E-002
1040	3	-2.457891E-002	-1.988148E-003	-8.673510E-002	-7.015768E-002
1040	4	-2.471572E-002	-1.988218E-003	-8.721662E-002	-7.015882E-002
1040	5	-2.464785E-002	-1.973377E-003	-8.697345E-002	-6.963614E-002
1040	6	-2.457918E-002	-1.980758E-003	-8.673140E-002	-6.989368E-002
1040	7	-2.464711E-002	-1.988285E-003	-8.697207E-002	-7.015824E-002
1040	8	-2.471633E-002	-1.980758E-003	-8.721603E-002	-6.989368E-002
1040	9	-2.464730E-002	-1.980758E-003	-8.697408E-002	-6.989368E-002
1041	1	-2.494677E-002	-2.750441E-003	-8.803620E-002	-9.705184E-002
1041	2	-2.474988E-002	-2.750402E-003	-8.733054E-002	-9.705174E-002
1041	3	-2.474868E-002	-2.771951E-003	-8.733182E-002	-9.781384E-002
1041	4	-2.494765E-002	-2.771980E-003	-8.803139E-002	-9.781121E-002
1041	5	-2.484863E-002	-2.750416E-003	-8.768160E-002	-9.705513E-002
1041	6	-2.474823E-002	-2.761152E-003	-8.732967E-002	-9.743199E-002
1041	7	-2.484767E-002	-2.771850E-003	-8.768167E-002	-9.781062E-002
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1042	1	-2.528032E-002	-3.517748E-003	-8.920601E-002	-1.241385E-001
1042	2	-2.501469E-002	-3.517737E-003	-8.827341E-002	-1.241303E-001
1042	3	-2.501403E-002	-3.546570E-003	-8.826716E-002	-1.251467E-001
1042	4	-2.528036E-002	-3.546523E-003	-8.920724E-002	-1.251480E-001
1042	5	-2.514763E-002	-3.517733E-003	-8.873518E-002	-1.241299E-001
1042	6	-2.501408E-002	-3.532145E-003	-8.826718E-002	-1.246388E-001
1042	7	-2.514676E-002	-3.546589E-003	-8.873858E-002	-1.251473E-001
1042	8	-2.528211E-002	-3.532145E-003	-8.921044E-002	-1.246388E-001
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1043	1	-2.573465E-002	-4.270432E-003	-9.080929E-002	-1.506920E-001
1043	2	-2.537192E-002	-4.270374E-003	-8.952802E-002	-1.506917E-001
1043	3	-2.537160E-002	-4.309953E-003	-8.952895E-002	-1.520821E-001
1043	4	-2.573408E-002	-4.309787E-003	-9.080531E-002	-1.520834E-001
1043	5	-2.555285E-002	-4.270390E-003	-9.016781E-002	-1.506914E-001
1043	6	-2.537162E-002	-4.290132E-003	-8.952706E-002	-1.513055E-001
1043	7	-2.555285E-002	-4.309767E-003	-9.016781E-002	-1.520828E-001

1043	8	-2.573402E-002	-4.290132E-003	-9.080783E-002	-1.513855E-001
1043	9	-2.555285E-002	-4.290132E-003	-9.016781E-002	-1.513855E-001
1044	1	-2.633698E-002	-5.007502E-003	-9.293687E-002	-1.766999E-001
1044	2	-2.585701E-002	-5.007558E-003	-9.124039E-002	-1.767002E-001
1044	3	-2.585707E-002	-5.059601E-003	-9.124058E-002	-1.785353E-001
1044	4	-2.633725E-002	-5.059583E-003	-9.293691E-002	-1.785414E-001
1044	5	-2.609647E-002	-5.007458E-003	-9.208645E-002	-1.766980E-001
1044	6	-2.585695E-002	-5.033590E-003	-9.124151E-002	-1.776167E-001
1044	7	-2.609647E-002	-5.059728E-003	-9.208645E-002	-1.785385E-001
1044	8	-2.633759E-002	-5.033649E-003	-9.293827E-002	-1.776193E-001
1044	9	-2.609647E-002	-5.033571E-003	-9.208645E-002	-1.776179E-001
1045	1	-8.891801E-003	-3.284490E-003	-3.137589E-001	-1.158961E+000
1045	2	-6.552765E-003	-3.274322E-003	-2.312200E-001	-1.155372E+000
1045	3	-6.560251E-003	-3.622874E-003	-2.314845E-001	-1.278364E+000
1045	4	-8.935706E-003	-3.586369E-003	-3.153002E-001	-1.265481E+000
1045	5	-7.805213E-003	-3.279756E-003	-2.754180E-001	-1.157289E+000
1045	6	-6.556374E-003	-3.447005E-003	-2.313454E-001	-1.216304E+000
1045	7	-7.833466E-003	-3.603315E-003	-2.764133E-001	-1.271459E+000
1045	8	-8.913632E-003	-3.434224E-003	-3.145291E-001	-1.211796E+000
1045	9	-7.819328E-003	-3.440161E-003	-2.759117E-001	-1.213889E+000
1046	1	-9.519954E-003	-4.398719E-003	-3.359220E-001	-1.552121E+000
1046	2	-9.382837E-003	-4.398135E-003	-3.310804E-001	-1.551919E+000
1046	3	-9.387115E-003	-4.421964E-003	-3.312270E-001	-1.560327E+000
1046	4	-9.525181E-003	-4.419832E-003	-3.361038E-001	-1.559572E+000
1046	5	-9.455498E-003	-4.398423E-003	-3.336450E-001	-1.552822E+000
1046	6	-9.384967E-003	-4.409984E-003	-3.311554E-001	-1.556100E+000
1046	7	-9.460230E-003	-4.420859E-003	-3.338122E-001	-1.559931E+000
1046	8	-9.522597E-003	-4.409199E-003	-3.360086E-001	-1.555827E+000
1046	9	-9.457824E-003	-4.409567E-003	-3.337286E-001	-1.555955E+000
1047	1	-8.016949E-003	-5.770966E-003	-2.828854E-001	-2.036325E+000
1047	2	-9.620237E-003	-5.777910E-003	-3.394616E-001	-2.038781E+000
1047	3	-9.536672E-003	-5.458006E-003	-3.365089E-001	-1.925905E+000
1047	4	-7.922147E-003	-5.482797E-003	-2.795369E-001	-1.934652E+000
1047	5	-8.777147E-003	-5.774258E-003	-3.097089E-001	-2.037489E+000
1047	6	-9.578749E-003	-5.619836E-003	-3.379962E-001	-1.982722E+000
1047	7	-8.686928E-003	-5.471042E-003	-3.065244E-001	-1.930501E+000
1047	8	-7.969901E-003	-5.627763E-003	-2.812253E-001	-1.985802E+000
1047	9	-8.732357E-003	-5.623633E-003	-3.081275E-001	-1.984343E+000
1048	1	-3.409805E-003	-7.326942E-003	-1.202901E-001	-2.585366E+000
1048	2	-7.657428E-003	-7.345415E-003	-2.701995E-001	-2.591898E+000
1048	3	-7.328032E-003	-6.398801E-003	-2.585782E-001	-2.255059E+000
1048	4	-3.074439E-003	-6.456202E-003	-1.084847E-001	-2.278123E+000
1048	5	-5.436245E-003	-7.335759E-003	-1.918270E-001	-2.588487E+000
1048	6	-7.493619E-003	-6.870225E-003	-2.644183E-001	-2.424217E+000
1048	7	-5.103420E-003	-6.425017E-003	-1.800778E-001	-2.267118E+000
1048	8	-3.242394E-003	-6.893325E-003	-1.144083E-001	-2.432364E+000
1048	9	-5.270556E-003	-6.882306E-003	-1.859762E-001	-2.428477E+000
1049	1	-5.876925E-002	-4.458206E-003	-2.073781E-001	-1.573170E-001
1049	2	-5.876925E-002	-4.458206E-003	-2.073781E-001	-1.573170E-001
1049	3	-5.876925E-002	-4.458206E-003	-2.073781E-001	-1.573170E-001
1050	1	-7.798673E-003	-3.683107E-003	-2.751790E-001	-1.299616E+000
1050	2	-6.159071E-003	-3.717888E-003	-2.173274E-001	-1.311887E+000
1050	3	-6.163561E-003	-3.968788E-003	-2.174849E-001	-1.400411E+000
1050	4	-7.824559E-003	-3.899364E-003	-2.761021E-001	-1.375925E+000
1050	5	-7.837818E-003	-3.699240E-003	-2.483380E-001	-1.305387E+000
1050	6	-6.161203E-003	-3.842357E-003	-2.174033E-001	-1.355884E+000
1050	7	-7.054780E-003	-3.931554E-003	-2.489338E-001	-1.387275E+000
1050	8	-7.811535E-003	-3.798486E-003	-2.756412E-001	-1.337587E+000
1050	9	-7.846354E-003	-3.814549E-003	-2.486343E-001	-1.345991E+000
1051	1	-7.768303E-003	-4.449128E-003	-2.741087E-001	-1.569918E+000

1051	2	-8.054748E-003	-4.442976E-003	-2.842187E-001	-1.567742E+000
1051	3	-8.046987E-003	-4.391599E-003	-2.839444E-001	-1.549618E+000
1051	4	-7.756431E-003	-4.403806E-003	-2.736962E-001	-1.553946E+000
1051	5	-7.902802E-003	-4.446251E-003	-2.788587E-001	-1.568982E+000
1051	6	-8.050929E-003	-4.417526E-003	-2.840850E-001	-1.558759E+000
1051	7	-7.892819E-003	-4.398120E-003	-2.785042E-001	-1.551914E+000
1051	8	-7.762453E-003	-4.426701E-003	-2.739086E-001	-1.562000E+000
1051	9	-7.897776E-003	-4.422407E-003	-2.786840E-001	-1.560482E+000
1052	1	-4.330389E-002	-8.551939E-003	-1.528029E-001	-3.017755E-001
1052	2	-3.831423E-002	-8.552011E-003	-1.351967E-001	-3.017770E-001
1052	3	-3.831409E-002	-9.093616E-003	-1.351981E-001	-3.208856E-001
1052	4	-4.330226E-002	-9.093469E-003	-1.528002E-001	-3.208876E-001
1052	5	-4.080835E-002	-8.551856E-003	-1.440003E-001	-3.017723E-001
1052	6	-3.831411E-002	-8.822798E-003	-1.351969E-001	-3.113317E-001
1052	7	-4.080835E-002	-9.093497E-003	-1.440003E-001	-3.208847E-001
1052	8	-4.330176E-002	-8.822798E-003	-1.528020E-001	-3.113317E-001
1052	9	-4.080835E-002	-8.822798E-003	-1.440003E-001	-3.113317E-001
1053	1	-5.421487E-002	-7.061795E-003	-1.913087E-001	-2.491900E-001
1053	2	-4.532227E-002	-7.061875E-003	-1.599315E-001	-2.491919E-001
1053	3	-4.532249E-002	-8.024939E-003	-1.599312E-001	-2.831751E-001
1053	4	-5.421421E-002	-8.024884E-003	-1.913099E-001	-2.831734E-001
1053	5	-4.976974E-002	-7.061760E-003	-1.756236E-001	-2.491883E-001
1053	6	-4.532238E-002	-7.543343E-003	-1.599311E-001	-2.661816E-001
1053	7	-4.976985E-002	-8.024911E-003	-1.756195E-001	-2.831742E-001
1053	8	-5.421443E-002	-7.543343E-003	-1.913108E-001	-2.661816E-001
1053	9	-4.976985E-002	-7.543343E-003	-1.756232E-001	-2.661816E-001
1054	1	-2.554108E-002	-5.074959E-003	-9.012097E-002	-1.790799E-001
1054	2	-2.503618E-002	-5.074813E-003	-8.834489E-002	-1.790803E-001
1054	3	-2.503610E-002	-5.129567E-003	-8.834333E-002	-1.810092E-001
1054	4	-2.553948E-002	-5.129594E-003	-9.011648E-002	-1.810082E-001
1054	5	-2.528860E-002	-5.075065E-003	-8.923476E-002	-1.790831E-001
1054	6	-2.503555E-002	-5.102183E-003	-8.834320E-002	-1.800421E-001
1054	7	-2.528759E-002	-5.129505E-003	-8.923211E-002	-1.810077E-001
1054	8	-2.553872E-002	-5.102259E-003	-9.012393E-002	-1.800442E-001
1054	9	-2.528779E-002	-5.102240E-003	-8.923589E-002	-1.800426E-001
1055	1	-2.635624E-002	-5.809951E-003	-9.300283E-002	-2.050154E-001
1055	2	-2.570713E-002	-5.809938E-003	-9.071543E-002	-2.050173E-001
1055	3	-2.570670E-002	-5.880609E-003	-9.071327E-002	-2.075888E-001
1055	4	-2.635778E-002	-5.880498E-003	-9.300516E-002	-2.075883E-001
1055	5	-2.603254E-002	-5.809756E-003	-9.185860E-002	-2.050128E-001
1055	6	-2.570717E-002	-5.845242E-003	-9.071411E-002	-2.062618E-001
1055	7	-2.603254E-002	-5.880554E-003	-9.185860E-002	-2.075062E-001
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1056	1	-2.743064E-002	-6.519813E-003	-9.679411E-002	-2.300671E-001
1056	2	-2.657577E-002	-6.519909E-003	-9.378030E-002	-2.300654E-001
1056	3	-2.657629E-002	-6.612521E-003	-9.377751E-002	-2.333399E-001
1056	4	-2.743145E-002	-6.612615E-003	-9.680115E-002	-2.333401E-001
1056	5	-2.700401E-002	-6.519878E-003	-9.528872E-002	-2.300655E-001
1056	6	-2.657533E-002	-6.566191E-003	-9.377867E-002	-2.317018E-001
1056	7	-2.700422E-002	-6.612671E-003	-9.528827E-002	-2.333419E-001
1056	8	-2.743069E-002	-6.566191E-003	-9.679813E-002	-2.317018E-001
1056	9	-2.700340E-002	-6.566191E-003	-9.528779E-002	-2.317018E-001
1057	1	-2.884348E-002	-7.194552E-003	-1.017808E-001	-2.538726E-001
1057	2	-2.771907E-002	-7.194524E-003	-9.781286E-002	-2.538711E-001
1057	3	-2.771936E-002	-7.316883E-003	-9.781223E-002	-2.581873E-001
1057	4	-2.884401E-002	-7.316887E-003	-1.017829E-001	-2.581874E-001
1057	5	-2.828216E-002	-7.194389E-003	-9.979753E-002	-2.538782E-001
1057	6	-2.771898E-002	-7.255584E-003	-9.781254E-002	-2.560284E-001
1057	7	-2.828186E-002	-7.316826E-003	-9.979577E-002	-2.581893E-001

1057	8	-2.884518E-002	-7.255584E-003	-1.017838E-001	-2.560284E-001
1057	9	-2.828130E-002	-7.255584E-003	-9.979690E-002	-2.560284E-001
1058	1	-3.073861E-002	-7.811695E-003	-1.084734E-001	-2.756556E-001
1058	2	-2.922744E-002	-7.811808E-003	-1.031348E-001	-2.756543E-001
1058	3	-2.922782E-002	-7.976053E-003	-1.031349E-001	-2.814527E-001
1058	4	-3.073989E-002	-7.976145E-003	-1.084743E-001	-2.814528E-001
1058	5	-2.998324E-002	-7.811644E-003	-1.058026E-001	-2.756491E-001
1058	6	-2.922834E-002	-7.893856E-003	-1.031363E-001	-2.785527E-001
1058	7	-2.998324E-002	-7.976115E-003	-1.058026E-001	-2.814547E-001
1058	8	-3.073989E-002	-7.893856E-003	-1.084667E-001	-2.785527E-001
1058	9	-2.998324E-002	-7.893856E-003	-1.058026E-001	-2.785527E-001
1059	1	-3.337208E-002	-8.331183E-003	-1.177574E-001	-2.939824E-001
1059	2	-3.126588E-002	-8.331095E-003	-1.103253E-001	-2.939852E-001
1059	3	-3.126571E-002	-8.559666E-003	-1.103271E-001	-3.020444E-001
1059	4	-3.337104E-002	-8.559546E-003	-1.177526E-001	-3.020443E-001
1059	5	-3.231829E-002	-8.331173E-003	-1.140420E-001	-2.939807E-001
1059	6	-3.126630E-002	-8.445351E-003	-1.103299E-001	-2.980129E-001
1059	7	-3.231831E-002	-8.559606E-003	-1.140426E-001	-3.020424E-001
1059	8	-3.337152E-002	-8.445351E-003	-1.177583E-001	-2.980129E-001
1059	9	-3.231878E-002	-8.445351E-003	-1.140435E-001	-2.980129E-001
1060	1	-3.714583E-002	-8.663576E-003	-1.310724E-001	-3.057139E-001
1060	2	-3.411700E-002	-8.663598E-003	-1.203885E-001	-3.057154E-001
1060	3	-3.411751E-002	-8.992365E-003	-1.203888E-001	-3.173146E-001
1060	4	-3.714558E-002	-8.993030E-003	-1.310743E-001	-3.173341E-001
1060	5	-3.562965E-002	-8.663557E-003	-1.257301E-001	-3.057099E-001
1060	6	-3.411654E-002	-8.827919E-003	-1.203870E-001	-3.115141E-001
1060	7	-3.563836E-002	-8.992662E-003	-1.257273E-001	-3.173242E-001
1060	8	-3.714511E-002	-8.828277E-003	-1.310772E-001	-3.115255E-001
1060	9	-3.562959E-002	-8.828118E-003	-1.257270E-001	-3.115202E-001
1061	1	-2.385505E-002	-1.992389E-003	-8.417757E-002	-7.030920E-002
1061	2	-2.372418E-002	-1.992458E-003	-8.371519E-002	-7.030709E-002
1061	3	-2.372427E-002	-2.006768E-003	-8.371553E-002	-7.080913E-002
1061	4	-2.385601E-002	-2.006784E-003	-8.417757E-002	-7.080961E-002
1061	5	-2.379000E-002	-1.992382E-003	-8.394600E-002	-7.030476E-002
1061	6	-2.372427E-002	-1.999529E-003	-8.371553E-002	-7.055888E-002
1061	7	-2.379000E-002	-2.006717E-003	-8.394600E-002	-7.081127E-002
1061	8	-2.385601E-002	-1.999529E-003	-8.417757E-002	-7.055888E-002
1061	9	-2.379000E-002	-1.999529E-003	-8.394600E-002	-7.055888E-002
1062	1	-2.410213E-002	-2.778182E-003	-8.504768E-002	-9.803373E-002
1062	2	-2.398311E-002	-2.778149E-003	-8.434796E-002	-9.803540E-002
1062	3	-2.398374E-002	-2.799758E-003	-8.435174E-002	-9.879465E-002
1062	4	-2.410175E-002	-2.799731E-003	-8.504722E-002	-9.879518E-002
1062	5	-2.404279E-002	-2.778081E-003	-8.469880E-002	-9.803361E-002
1062	6	-2.398348E-002	-2.788955E-003	-8.434634E-002	-9.841448E-002
1062	7	-2.404279E-002	-2.799783E-003	-8.469880E-002	-9.879678E-002
1062	8	-2.410064E-002	-2.788955E-003	-8.504936E-002	-9.841448E-002
1062	9	-2.404279E-002	-2.788955E-003	-8.469880E-002	-9.841448E-002
1063	1	-2.444688E-002	-3.555072E-003	-8.626506E-002	-1.254485E-001
1063	2	-2.417131E-002	-3.555047E-003	-8.529302E-002	-1.254503E-001
1063	3	-2.417049E-002	-3.584935E-003	-8.528963E-002	-1.265039E-001
1063	4	-2.444693E-002	-3.585035E-003	-8.626633E-002	-1.265043E-001
1063	5	-2.430816E-002	-3.555067E-003	-8.577508E-002	-1.254480E-001
1063	6	-2.417038E-002	-3.570102E-003	-8.529347E-002	-1.259775E-001
1063	7	-2.430821E-002	-3.585002E-003	-8.577836E-002	-1.265060E-001
1063	8	-2.444677E-002	-3.570102E-003	-8.626951E-002	-1.259775E-001
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1064	1	-2.492242E-002	-4.321607E-003	-8.794233E-002	-1.524978E-001
1064	2	-2.454138E-002	-4.321584E-003	-8.660250E-002	-1.524958E-001
1064	3	-2.454247E-002	-4.362767E-003	-8.660234E-002	-1.539524E-001
1064	4	-2.492198E-002	-4.362865E-003	-8.794435E-002	-1.539528E-001

1064	5	-2.473198E-002	-4.321514E-003	-8.727389E-002	-1.524934E-001
1064	6	-2.454166E-002	-4.342233E-003	-8.660003E-002	-1.532245E-001
1064	7	-2.473218E-002	-4.362919E-003	-8.727220E-002	-1.539545E-001
1064	8	-2.492313E-002	-4.342233E-003	-8.794653E-002	-1.532245E-001
1064	9	-2.473233E-002	-4.342233E-003	-8.727408E-002	-1.532245E-001
1065	1	-2.360446E-002	-4.107487E-004	-8.329623E-002	-1.449313E-002
1065	2	-2.358330E-002	-4.106989E-004	-8.321834E-002	-1.449051E-002
1065	3	-2.358220E-002	-4.130404E-004	-8.321701E-002	-1.457505E-002
1065	4	-2.360490E-002	-4.130212E-004	-8.329339E-002	-1.457552E-002
1065	5	-2.359344E-002	-4.106663E-004	-8.325446E-002	-1.448974E-002
1065	6	-2.358238E-002	-4.118980E-004	-8.321460E-002	-1.453502E-002
1065	7	-2.359403E-002	-4.131750E-004	-8.325505E-002	-1.458046E-002
1065	8	-2.360523E-002	-4.118980E-004	-8.329509E-002	-1.453502E-002
1065	9	-2.359368E-002	-4.118980E-004	-8.325411E-002	-1.453502E-002
1066	1	-2.369389E-002	-1.200722E-003	-8.360551E-002	-4.236878E-002
1066	2	-2.361966E-002	-1.200668E-003	-8.334561E-002	-4.236922E-002
1066	3	-2.361829E-002	-1.208760E-003	-8.334483E-002	-4.265564E-002
1066	4	-2.369362E-002	-1.208825E-003	-8.360825E-002	-4.265721E-002
1066	5	-2.365395E-002	-1.208659E-003	-8.347602E-002	-4.236670E-002
1066	6	-2.361909E-002	-1.204752E-003	-8.334356E-002	-4.251208E-002
1066	7	-2.365674E-002	-1.208790E-003	-8.347566E-002	-4.265362E-002
1066	8	-2.369362E-002	-1.204781E-003	-8.361206E-002	-4.251227E-002
1066	9	-2.365682E-002	-1.204774E-003	-8.347461E-002	-4.251318E-002
1067	1	-6.177625E-002	-4.532875E-003	-2.179930E-001	-1.599154E-001
1067	2	-5.679755E-002	-4.844186E-003	-2.004241E-001	-1.709348E-001
1067	3	-5.679774E-002	-5.483842E-003	-2.004233E-001	-1.935100E-001
1067	4	-6.177579E-002	-5.365698E-003	-2.179886E-001	-1.893354E-001
1068	1	-6.080489E-003	-5.429958E-003	-2.120195E-001	-1.916002E+000
1068	2	-7.789178E-003	-5.393835E-003	-2.720224E-001	-1.903260E+000
1068	3	-7.611408E-003	-5.047092E-003	-2.685760E-001	-1.788915E+000
1068	4	-5.905075E-003	-5.118372E-003	-2.083681E-001	-1.806064E+000
1068	5	-6.814596E-003	-5.412824E-003	-2.484560E-001	-1.909965E+000
1068	6	-7.660480E-003	-5.221347E-003	-2.783099E-001	-1.842391E+000
1068	7	-6.713335E-003	-5.084627E-003	-2.368048E-001	-1.794153E+000
1068	8	-5.957025E-003	-5.274861E-003	-2.102042E-001	-1.861275E+000
1068	9	-6.764133E-003	-5.249501E-003	-2.386774E-001	-1.852332E+000
1069	1	-2.796699E-003	-6.247811E-003	-9.868110E-002	-2.204592E+000
1069	2	-5.588714E-003	-6.188449E-003	-1.971992E-001	-2.183637E+000
1069	3	-5.367375E-003	-5.546617E-003	-1.893981E-001	-1.957179E+000
1069	4	-2.572912E-003	-5.664371E-003	-9.078722E-002	-1.998724E+000
1069	5	-4.127187E-003	-6.219531E-003	-1.456319E-001	-2.194612E+000
1069	6	-5.478526E-003	-5.868926E-003	-1.933148E-001	-2.070984E+000
1069	7	-3.983927E-003	-5.608267E-003	-1.377564E-001	-1.978926E+000
1069	8	-2.685188E-003	-5.957287E-003	-9.474834E-002	-2.182872E+000
1069	9	-4.016086E-003	-5.915195E-003	-1.417891E-001	-2.087225E+000
1070	1	-7.124641E-003	-3.974062E-003	-2.513996E-001	-1.402273E+000
1070	2	-6.545888E-003	-4.001828E-003	-2.309583E-001	-1.412081E+000
1070	3	-6.546856E-003	-4.092990E-003	-2.310147E-001	-1.444242E+000
1070	4	-7.135978E-003	-4.051845E-003	-2.517939E-001	-1.429723E+000
1070	5	-6.856582E-003	-3.986893E-003	-2.419409E-001	-1.406810E+000
1070	6	-6.545997E-003	-4.046980E-003	-2.309801E-001	-1.428013E+000
1070	7	-6.863957E-003	-4.070844E-003	-2.421986E-001	-1.436435E+000
1070	8	-7.130211E-003	-4.012616E-003	-2.515948E-001	-1.415884E+000
1070	9	-6.868224E-003	-4.028499E-003	-2.420708E-001	-1.421490E+000
1071	1	-6.523684E-003	-4.438242E-003	-2.301924E-001	-1.566876E+000
1071	2	-7.157997E-003	-4.407481E-003	-2.525701E-001	-1.555219E+000
1071	3	-7.138004E-003	-4.291181E-003	-2.518726E-001	-1.514184E+000
1071	4	-6.498945E-003	-4.335955E-003	-2.293189E-001	-1.529981E+000
1071	5	-6.821379E-003	-4.423844E-003	-2.406989E-001	-1.560984E+000
1071	6	-7.148172E-003	-4.349711E-003	-2.522286E-001	-1.534829E+000

1071	7	-6.798682E-003	-4.314975E-003	-2.398962E-001	-1.522576E+000
1071	8	-6.511427E-003	-4.387383E-003	-2.297620E-001	-1.548119E+000
1071	9	-6.818163E-003	-4.369710E-003	-2.403000E-001	-1.541887E+000
1072	1	-4.770380E-003	-5.080343E-003	-1.683229E-001	-1.792638E+000
1072	2	-6.325218E-003	-5.085885E-003	-2.231866E-001	-1.766336E+000
1072	3	-6.239722E-003	-4.679589E-003	-2.201733E-001	-1.651203E+000
1072	4	-4.674436E-003	-4.788953E-003	-1.649404E-001	-1.689822E+000
1072	5	-5.505521E-003	-5.045091E-003	-1.942666E-001	-1.780195E+000
1072	6	-6.282635E-003	-4.843771E-003	-2.216884E-001	-1.709165E+000
1072	7	-5.413915E-003	-4.737261E-003	-1.910404E-001	-1.671577E+000
1072	8	-4.722614E-003	-4.935538E-003	-1.666410E-001	-1.741547E+000
1072	9	-5.460895E-003	-4.892169E-003	-1.926624E-001	-1.726240E+000
1073	1	-3.690667E-002	-9.092586E-003	-1.302335E-001	-3.208494E-001
1073	2	-3.363439E-002	-9.091704E-003	-1.186852E-001	-3.208243E-001
1073	3	-3.363498E-002	-9.447639E-003	-1.186854E-001	-3.333815E-001
1073	4	-3.690713E-002	-9.447820E-003	-1.302315E-001	-3.333854E-001
1073	5	-3.527207E-002	-9.092209E-003	-1.244623E-001	-3.200351E-001
1073	6	-3.363464E-002	-9.269806E-003	-1.186841E-001	-3.271020E-001
1073	7	-3.527138E-002	-9.447701E-003	-1.244631E-001	-3.333840E-001
1073	8	-3.690690E-002	-9.270183E-003	-1.302344E-001	-3.271148E-001
1073	9	-3.527103E-002	-9.269932E-003	-1.244630E-001	-3.271090E-001
1074	1	-4.367081E-002	-9.259228E-003	-1.541031E-001	-3.267327E-001
1074	2	-3.818853E-002	-9.259212E-003	-1.347284E-001	-3.267307E-001
1074	3	-3.818121E-002	-9.856496E-003	-1.347293E-001	-3.478068E-001
1074	4	-4.367256E-002	-9.856438E-003	-1.541189E-001	-3.478059E-001
1074	5	-4.092683E-002	-9.259203E-003	-1.444175E-001	-3.267319E-001
1074	6	-3.818041E-002	-9.557864E-003	-1.347287E-001	-3.372674E-001
1074	7	-4.092683E-002	-9.856453E-003	-1.444175E-001	-3.478063E-001
1074	8	-4.367227E-002	-9.557864E-003	-1.541089E-001	-3.372674E-001
1074	9	-4.092683E-002	-9.557864E-003	-1.444175E-001	-3.372674E-001
1075	1	-5.830095E-002	-8.355534E-003	-2.057246E-001	-2.948441E-001
1075	2	-4.622817E-002	-8.355519E-003	-1.631238E-001	-2.948425E-001
1075	3	-4.623116E-002	-9.668228E-003	-1.631347E-001	-3.411627E-001
1075	4	-5.832390E-002	-9.668251E-003	-2.058028E-001	-3.411613E-001
1075	5	-5.226481E-002	-8.355629E-003	-1.844265E-001	-2.948433E-001
1075	6	-4.622953E-002	-9.011282E-003	-1.631310E-001	-3.179821E-001
1075	7	-5.227735E-002	-9.668180E-003	-1.844686E-001	-3.411620E-001
1075	8	-5.831258E-002	-9.011282E-003	-2.057654E-001	-3.179821E-001
1075	9	-5.227084E-002	-9.011282E-003	-1.844471E-001	-3.179821E-001
1076	1	-6.537010E-002	-6.610081E-003	-2.306713E-001	-2.332466E-001
1076	2	-6.536565E-002	-5.897661E-003	-2.306521E-001	-2.081125E-001
1076	3	-6.110996E-002	-5.877655E-003	-2.156360E-001	-2.074129E-001
1076	4	-6.111934E-002	-6.425100E-003	-2.156687E-001	-2.267199E-001
1077	1	-3.007603E-002	-8.024802E-003	-1.061282E-001	-2.831722E-001
1077	2	-2.850945E-002	-8.024857E-003	-1.006029E-001	-2.831714E-001
1077	3	-2.850987E-002	-8.194902E-003	-1.006033E-001	-2.891721E-001
1077	4	-3.007627E-002	-8.194964E-003	-1.061292E-001	-2.891722E-001
1077	5	-2.929331E-002	-8.024615E-003	-1.033667E-001	-2.831697E-001
1077	6	-2.850972E-002	-8.109813E-003	-1.005980E-001	-2.861713E-001
1077	7	-2.929331E-002	-8.194874E-003	-1.033667E-001	-2.891722E-001
1077	8	-3.007627E-002	-8.189813E-003	-1.061330E-001	-2.861713E-001
1077	9	-2.929331E-002	-8.189813E-003	-1.033667E-001	-2.861713E-001
1078	1	-3.283570E-002	-8.627809E-003	-1.158708E-001	-3.044460E-001
1078	2	-3.062572E-002	-8.627655E-003	-1.080700E-001	-3.044452E-001
1078	3	-3.062731E-002	-8.866961E-003	-1.080719E-001	-3.128905E-001
1078	4	-3.283545E-002	-8.866926E-003	-1.158660E-001	-3.128903E-001
1078	5	-3.173206E-002	-8.627607E-003	-1.119710E-001	-3.044435E-001
1078	6	-3.062600E-002	-8.747272E-003	-1.080746E-001	-3.086685E-001
1078	7	-3.173117E-002	-8.867048E-003	-1.119717E-001	-3.128904E-001
1078	8	-3.283593E-002	-8.747272E-003	-1.158718E-001	-3.086685E-001

1078	9	-3.173158E-002	-8.747272E-003	-1.119721E-001	-3.086685E-001
1079	1	-2.282729E-002	-1.211172E-003	-8.055100E-002	-4.274805E-002
1079	2	-2.274441E-002	-1.211121E-003	-8.025774E-002	-4.273523E-002
1079	3	-2.274487E-002	-1.220068E-003	-8.025694E-002	-4.305195E-002
1079	4	-2.282797E-002	-1.220154E-003	-8.055374E-002	-4.305773E-002
1079	5	-2.278632E-002	-1.211118E-003	-8.040556E-002	-4.273609E-002
1079	6	-2.274479E-002	-1.215647E-003	-8.025996E-002	-4.289654E-002
1079	7	-2.278649E-002	-1.220219E-003	-8.040515E-002	-4.305895E-002
1079	8	-2.282893E-002	-1.215637E-003	-8.054993E-002	-4.289454E-002
1079	9	-2.278657E-002	-1.215649E-003	-8.040603E-002	-4.289643E-002
1080	1	-2.299397E-002	-2.010982E-003	-9.114251E-002	-7.095648E-002
1080	2	-2.285911E-002	-2.010910E-003	-8.066359E-002	-7.095714E-002
1080	3	-2.285848E-002	-2.025374E-003	-8.066187E-002	-7.147337E-002
1080	4	-2.299397E-002	-2.025450E-003	-8.113869E-002	-7.147092E-002
1080	5	-2.292616E-002	-2.010958E-003	-8.090215E-002	-7.095855E-002
1080	6	-2.285919E-002	-2.018160E-003	-8.066393E-002	-7.121383E-002
1080	7	-2.292616E-002	-2.025412E-003	-8.090215E-002	-7.147077E-002
1080	8	-2.299397E-002	-2.018160E-003	-8.113869E-002	-7.121383E-002
1080	9	-2.292616E-002	-2.018160E-003	-8.090215E-002	-7.121383E-002
1081	1	-2.324599E-002	-2.806146E-003	-8.203198E-002	-9.980960E-002
1081	2	-2.304236E-002	-2.806179E-003	-8.131059E-002	-9.980022E-002
1081	3	-2.304275E-002	-2.828259E-003	-8.131052E-002	-9.979986E-002
1081	4	-2.324562E-002	-2.828218E-003	-8.202773E-002	-9.980131E-002
1081	5	-2.314469E-002	-2.806098E-003	-8.166832E-002	-9.981736E-002
1081	6	-2.304226E-002	-2.817154E-003	-8.130800E-002	-9.941065E-002
1081	7	-2.314469E-002	-2.828179E-003	-8.166832E-002	-9.979738E-002
1081	8	-2.324615E-002	-2.817154E-003	-8.202604E-002	-9.941065E-002
1081	9	-2.314469E-002	-2.817154E-003	-8.166832E-002	-9.941065E-002
1082	1	-2.360198E-002	-3.593939E-003	-8.320299E-002	-1.268175E-001
1082	2	-2.331676E-002	-3.593955E-003	-8.227898E-002	-1.268176E-001
1082	3	-2.331848E-002	-3.624922E-003	-8.227931E-002	-1.279090E-001
1082	4	-2.360204E-002	-3.624885E-003	-8.320430E-002	-1.279106E-001
1082	5	-2.345972E-002	-3.593875E-003	-8.278105E-002	-1.268152E-001
1082	6	-2.331678E-002	-3.609329E-003	-8.227934E-002	-1.273617E-001
1082	7	-2.345927E-002	-3.624758E-003	-8.278233E-002	-1.279065E-001
1082	8	-2.360188E-002	-3.609329E-003	-8.320365E-002	-1.273617E-001
1082	9	-2.345997E-002	-3.609329E-003	-8.278100E-002	-1.273617E-001
1083	1	-2.408254E-002	-4.374881E-003	-8.497782E-002	-1.543775E-001
1083	2	-2.369733E-002	-4.374885E-003	-8.362253E-002	-1.543780E-001
1083	3	-2.369859E-002	-4.416498E-003	-8.362465E-002	-1.558446E-001
1083	4	-2.408123E-002	-4.416465E-003	-8.497366E-002	-1.558425E-001
1083	5	-2.389832E-002	-4.374885E-003	-8.430167E-002	-1.543757E-001
1083	6	-2.369889E-002	-4.395646E-003	-8.362461E-002	-1.551092E-001
1083	7	-2.389835E-002	-4.416335E-003	-8.430248E-002	-1.558421E-001
1083	8	-2.408175E-002	-4.395646E-003	-8.497555E-002	-1.551092E-001
1083	9	-2.389858E-002	-4.395646E-003	-8.430234E-002	-1.551092E-001
1084	1	-2.471815E-002	-5.145661E-003	-8.722509E-002	-1.815705E-001
1084	2	-2.421070E-002	-5.145555E-003	-8.543373E-002	-1.815709E-001
1084	3	-2.421249E-002	-5.200661E-003	-8.543492E-002	-1.835173E-001
1084	4	-2.471825E-002	-5.200752E-003	-8.722272E-002	-1.835192E-001
1084	5	-2.446418E-002	-5.145595E-003	-8.632523E-002	-1.815725E-001
1084	6	-2.421072E-002	-5.173147E-003	-8.543415E-002	-1.825449E-001
1084	7	-2.446408E-002	-5.200619E-003	-8.632609E-002	-1.835150E-001
1084	8	-2.471807E-002	-5.173147E-003	-8.722199E-002	-1.825449E-001
1084	9	-2.446437E-002	-5.173147E-003	-8.632497E-002	-1.825449E-001
1085	1	-2.555406E-002	-5.901406E-003	-9.017504E-002	-2.082396E-001
1085	2	-2.488813E-002	-5.901287E-003	-8.782552E-002	-2.082400E-001
1085	3	-2.488768E-002	-5.973814E-003	-8.782332E-002	-2.107990E-001
1085	4	-2.555488E-002	-5.973703E-003	-9.016969E-002	-2.107972E-001
1085	5	-2.522899E-002	-5.901339E-003	-8.899942E-002	-2.082411E-001

1085	6	-2.488828E-002	-5.937569E-003	-8.782419E-002	-2.095183E-001
1085	7	-2.522099E-002	-5.973774E-003	-8.899942E-002	-2.107929E-001
1085	8	-2.555482E-002	-5.937569E-003	-9.017427E-002	-2.095183E-001
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1086	1	-2.665540E-002	-6.639856E-003	-9.405845E-002	-2.343043E-001
1086	2	-2.577837E-002	-6.639929E-003	-9.096530E-002	-2.343046E-001
1086	3	-2.577878E-002	-6.735047E-003	-9.096587E-002	-2.376618E-001
1086	4	-2.665574E-002	-6.735149E-003	-9.405883E-002	-2.376640E-001
1086	5	-2.621675E-002	-6.639997E-003	-9.251363E-002	-2.343024E-001
1086	6	-2.577794E-002	-6.687507E-003	-9.096701E-002	-2.359813E-001
1086	7	-2.621795E-002	-6.735099E-003	-9.251338E-002	-2.376596E-001
1086	8	-2.665474E-002	-6.687507E-003	-9.405864E-002	-2.359813E-001
1086	9	-2.621712E-002	-6.687507E-003	-9.251276E-002	-2.359813E-001
1087	1	-2.811238E-002	-7.352859E-003	-9.920228E-002	-2.594624E-001
1087	2	-2.695124E-002	-7.352917E-003	-9.510379E-002	-2.594609E-001
1087	3	-2.695090E-002	-7.478981E-003	-9.510314E-002	-2.639091E-001
1087	4	-2.811148E-002	-7.479259E-003	-9.919772E-002	-2.639182E-001
1087	5	-2.753081E-002	-7.352894E-003	-9.715868E-002	-2.594627E-001
1087	6	-2.695107E-002	-7.415866E-003	-9.510347E-002	-2.616862E-001
1087	7	-2.753083E-002	-7.479072E-003	-9.715869E-002	-2.639158E-001
1087	8	-2.811241E-002	-7.416011E-003	-9.919858E-002	-2.616901E-001
1087	9	-2.753088E-002	-7.415964E-003	-9.715188E-002	-2.616887E-001
1088	1	-2.273433E-002	-4.133448E-004	-8.022039E-002	-1.458544E-002
1088	2	-2.274747E-002	-4.133691E-004	-8.026669E-002	-1.458368E-002
1088	3	-2.274707E-002	-4.119189E-004	-8.027007E-002	-1.453626E-002
1088	4	-2.273391E-002	-4.119919E-004	-8.022255E-002	-1.453370E-002
1088	5	-2.274058E-002	-4.132452E-004	-8.024532E-002	-1.458313E-002
1088	6	-2.274733E-002	-4.125693E-004	-8.027028E-002	-1.456023E-002
1088	7	-2.274041E-002	-4.117506E-004	-8.024570E-002	-1.453361E-002
1088	8	-2.273364E-002	-4.125693E-004	-8.022147E-002	-1.456023E-002
1088	9	-2.274033E-002	-4.125693E-004	-8.024673E-002	-1.456023E-002
1089	1	-6.798313E-003	-4.088752E-003	-2.398987E-001	-1.442736E+000
1089	2	-6.769761E-003	-4.098945E-003	-2.388777E-001	-1.443519E+000
1089	3	-6.769865E-003	-4.095570E-003	-2.388755E-001	-1.445158E+000
1089	4	-6.798889E-003	-4.092674E-003	-2.399018E-001	-1.444142E+000
1089	5	-6.785111E-003	-4.089763E-003	-2.394201E-001	-1.443098E+000
1089	6	-6.769666E-003	-4.093240E-003	-2.388741E-001	-1.444338E+000
1089	7	-6.785528E-003	-4.094033E-003	-2.394329E-001	-1.444606E+000
1089	8	-6.798655E-003	-4.090691E-003	-2.398963E-001	-1.443448E+000
1089	9	-6.785328E-003	-4.091881E-003	-2.394238E-001	-1.443852E+000
1090	1	-2.494742E-003	-5.521871E-003	-8.803339E-002	-1.948434E+000
1090	2	-4.375574E-003	-5.438983E-003	-1.543948E-001	-1.916375E+000
1090	3	-4.221825E-003	-4.987146E-003	-1.489678E-001	-1.759745E+000
1090	4	-2.334019E-003	-5.119204E-003	-8.235756E-002	-1.806353E+000
1090	5	-3.391131E-003	-5.478589E-003	-1.196586E-001	-1.933158E+000
1090	6	-4.298990E-003	-5.210435E-003	-1.516979E-001	-1.838545E+000
1090	7	-3.233088E-003	-5.856307E-003	-1.140798E-001	-1.784152E+000
1090	8	-2.414976E-003	-5.321681E-003	-8.521461E-002	-1.877795E+000
1090	9	-3.312462E-003	-5.268688E-003	-1.168859E-001	-1.859094E+000
1091	1	-7.001758E-002	-7.138033E-003	-2.470721E-001	-2.518789E-001
1091	2	-7.001758E-002	-7.138033E-003	-2.470721E-001	-2.518789E-001
1091	3	-7.001758E-002	-7.138033E-003	-2.470721E-001	-2.518789E-001
1092	1	-5.622647E-003	-4.359899E-003	-1.984016E-001	-1.538421E+000
1092	2	-6.656617E-003	-4.280898E-003	-2.348846E-001	-1.510544E+000
1092	3	-6.623371E-003	-4.086914E-003	-2.337083E-001	-1.442101E+000
1092	4	-5.581473E-003	-4.189916E-003	-1.969495E-001	-1.478441E+000
1092	5	-6.107293E-003	-4.322896E-003	-2.154974E-001	-1.525364E+000
1092	6	-6.648078E-003	-4.184536E-003	-2.343006E-001	-1.476542E+000
1092	7	-6.869533E-003	-4.141663E-003	-2.141642E-001	-1.461425E+000
1092	8	-5.602330E-003	-4.275480E-003	-1.976804E-001	-1.508604E+000

1092	9	-6.888467E-003	-4.232818E-003	-2.140349E-001	-1.493587E+000
1093	1	-6.766824E-003	-4.092471E-003	-2.387769E-001	-1.444066E+000
1093	2	-6.967138E-003	-4.071291E-003	-2.458444E-001	-1.436587E+000
1093	3	-6.966413E-003	-4.038143E-003	-2.458175E-001	-1.424888E+000
1093	4	-6.763503E-003	-4.064482E-003	-2.386607E-001	-1.434163E+000
1093	5	-6.859385E-003	-4.082788E-003	-2.420385E-001	-1.440620E+000
1093	6	-6.966993E-003	-4.054842E-003	-2.458378E-001	-1.430784E+000
1093	7	-6.857101E-003	-4.052303E-003	-2.419602E-001	-1.429880E+000
1093	8	-6.765213E-003	-4.078578E-003	-2.387182E-001	-1.439153E+000
1093	9	-6.858191E-003	-4.067636E-003	-2.419983E-001	-1.435298E+000
1094	1	-3.901867E-003	-4.761370E-003	-1.376821E-001	-1.680095E+000
1094	2	-5.323889E-003	-4.652673E-003	-1.878592E-001	-1.641737E+000
1094	3	-5.243785E-003	-4.346520E-003	-1.850300E-001	-1.533695E+000
1094	4	-3.812011E-003	-4.488604E-003	-1.345040E-001	-1.583840E+000
1094	5	-4.574314E-003	-4.789988E-003	-1.614082E-001	-1.661957E+000
1094	6	-5.284124E-003	-4.500676E-003	-1.864559E-001	-1.588106E+000
1094	7	-4.488469E-003	-4.421478E-003	-1.583802E-001	-1.560158E+000
1094	8	-3.857395E-003	-4.625858E-003	-1.361091E-001	-1.632278E+000
1094	9	-4.531675E-003	-4.566707E-003	-1.599034E-001	-1.611397E+000
1095	1	-2.731868E-002	-7.515089E-003	-9.639631E-002	-2.652155E-001
1095	2	-2.614056E-002	-7.515743E-003	-9.224241E-002	-2.652089E-001
1095	3	-2.614013E-002	-7.643782E-003	-9.224174E-002	-2.697266E-001
1095	4	-2.731919E-002	-7.643871E-003	-9.640216E-002	-2.697311E-001
1095	5	-2.673012E-002	-7.515888E-003	-9.432560E-002	-2.652082E-001
1095	6	-2.614039E-002	-7.579806E-003	-9.224208E-002	-2.674677E-001
1095	7	-2.673023E-002	-7.643975E-003	-9.432549E-002	-2.697331E-001
1095	8	-2.732037E-002	-7.579944E-003	-9.640305E-002	-2.674752E-001
1095	9	-2.673065E-002	-7.579835E-003	-9.432102E-002	-2.674718E-001
1096	1	-2.932876E-002	-8.245041E-003	-1.034910E-001	-2.909451E-001
1096	2	-2.772328E-002	-8.245071E-003	-9.782936E-002	-2.909441E-001
1096	3	-2.772468E-002	-8.419517E-003	-9.782936E-002	-2.970998E-001
1096	4	-2.932805E-002	-8.419458E-003	-1.034920E-001	-2.970979E-001
1096	5	-2.852530E-002	-8.245003E-003	-1.006585E-001	-2.909412E-001
1096	6	-2.772417E-002	-8.332201E-003	-9.783079E-002	-2.940205E-001
1096	7	-2.852530E-002	-8.419428E-003	-1.006585E-001	-2.971007E-001
1096	8	-2.932805E-002	-8.332201E-003	-1.034882E-001	-2.940205E-001
1096	9	-2.852530E-002	-8.332201E-003	-1.006585E-001	-2.940205E-001
1097	1	-3.213763E-002	-8.937334E-003	-1.134065E-001	-3.153724E-001
1097	2	-2.988724E-002	-8.937347E-003	-1.054671E-001	-3.153713E-001
1097	3	-2.988875E-002	-9.101846E-003	-1.054682E-001	-3.240034E-001
1097	4	-3.214253E-002	-9.101904E-003	-1.134197E-001	-3.240015E-001
1097	5	-3.101262E-002	-8.937296E-003	-1.094353E-001	-3.153689E-001
1097	6	-2.988906E-002	-9.059455E-003	-1.054692E-001	-3.196827E-001
1097	7	-3.101620E-002	-9.101875E-003	-1.094454E-001	-3.240044E-001
1097	8	-3.214062E-002	-9.059455E-003	-1.134120E-001	-3.196827E-001
1097	9	-3.101384E-002	-9.059455E-003	-1.094402E-001	-3.196827E-001
1098	1	-3.643241E-002	-9.554164E-003	-1.285628E-001	-3.371361E-001
1098	2	-3.298045E-002	-9.554073E-003	-1.163743E-001	-3.371350E-001
1098	3	-3.298674E-002	-9.928771E-003	-1.164003E-001	-3.503681E-001
1098	4	-3.643313E-002	-9.928828E-003	-1.285644E-001	-3.503581E-001
1098	5	-3.470589E-002	-9.553987E-003	-1.224709E-001	-3.371319E-001
1098	6	-3.290306E-002	-9.741568E-003	-1.163881E-001	-3.437527E-001
1098	7	-3.471008E-002	-9.928799E-003	-1.224810E-001	-3.503572E-001
1098	8	-3.643434E-002	-9.741568E-003	-1.285656E-001	-3.437527E-001
1098	9	-3.470847E-002	-9.741568E-003	-1.224735E-001	-3.437527E-001
1099	1	-4.326220E-002	-1.003077E-002	-1.526598E-001	-3.539572E-001
1099	2	-3.773725E-002	-1.003088E-002	-1.331651E-001	-3.539557E-001
1099	3	-3.773876E-002	-1.063155E-002	-1.331782E-001	-3.751529E-001
1099	4	-4.326059E-002	-1.063137E-002	-1.526571E-001	-3.751509E-001
1099	5	-4.049937E-002	-1.003074E-002	-1.429180E-001	-3.539529E-001

1099	6	-3.773889E-002	-1.033104E-002	-1.331780E-001	-3.645521E-001
1099	7	-4.049937E-002	-1.063146E-002	-1.429180E-001	-3.751580E-001
1099	8	-4.326176E-002	-1.033104E-002	-1.526588E-001	-3.645521E-001
1099	9	-4.049937E-002	-1.033104E-002	-1.429180E-001	-3.645521E-001
1100	1	-6.028035E-002	-1.080374E-002	-2.127393E-001	-3.558245E-001
1100	2	-4.612608E-002	-1.080376E-002	-1.627668E-001	-3.558225E-001
1100	3	-4.612485E-002	-1.162385E-002	-1.627619E-001	-4.101732E-001
1100	4	-6.028802E-002	-1.162390E-002	-2.127388E-001	-4.101712E-001
1100	5	-5.320729E-002	-1.080359E-002	-1.877518E-001	-3.558199E-001
1100	6	-4.612598E-002	-1.085373E-002	-1.627668E-001	-3.829949E-001
1100	7	-5.320732E-002	-1.162387E-002	-1.877521E-001	-4.101741E-001
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1100	9	-5.320659E-002	-1.085373E-002	-1.877518E-001	-3.829949E-001
1101	1	-6.616129E-002	-8.046175E-003	-2.334623E-001	-2.839303E-001
1101	2	-6.616150E-002	-9.935970E-003	-2.334655E-001	-3.506076E-001
1101	3	-8.887250E-002	-9.888325E-003	-2.853791E-001	-3.489222E-001
1101	4	-8.887448E-002	-7.428164E-003	-2.853819E-001	-2.621213E-001
1102	1	-2.237457E-002	-2.834614E-003	-7.895616E-002	-1.000279E-001
1102	2	-2.217226E-002	-2.834626E-003	-7.824088E-002	-1.000276E-001
1102	3	-2.217256E-002	-2.856622E-003	-7.824084E-002	-1.008036E-001
1102	4	-2.237584E-002	-2.856775E-003	-7.895469E-002	-1.008019E-001
1102	5	-2.227467E-002	-2.834661E-003	-7.859869E-002	-1.000259E-001
1102	6	-2.217275E-002	-2.845603E-003	-7.823963E-002	-1.004151E-001
1102	7	-2.227467E-002	-2.856656E-003	-7.859869E-002	-1.008046E-001
1102	8	-2.237542E-002	-2.845603E-003	-7.895681E-002	-1.004151E-001
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1103	1	-2.274578E-002	-3.634050E-003	-8.026765E-002	-1.282366E-001
1103	2	-2.244729E-002	-3.634066E-003	-7.921357E-002	-1.282364E-001
1103	3	-2.244768E-002	-3.666420E-003	-7.920954E-002	-1.293773E-001
1103	4	-2.274592E-002	-3.666367E-003	-8.026493E-002	-1.293756E-001
1103	5	-2.259739E-002	-3.633995E-003	-7.973804E-002	-1.282308E-001
1103	6	-2.244786E-002	-3.650159E-003	-7.921076E-002	-1.288046E-001
1103	7	-2.259662E-002	-3.666334E-003	-7.973887E-002	-1.293745E-001
1103	8	-2.274669E-002	-3.650159E-003	-8.026237E-002	-1.288046E-001
1103	9	-2.259725E-002	-3.650159E-003	-7.974057E-002	-1.288046E-001
1104	1	-2.322879E-002	-4.428884E-003	-8.196589E-002	-1.562808E-001
1104	2	-2.283174E-002	-4.428795E-003	-8.056676E-002	-1.562807E-001
1104	3	-2.283086E-002	-4.471974E-003	-8.056647E-002	-1.578024E-001
1104	4	-2.322879E-002	-4.471919E-003	-8.197864E-002	-1.578045E-001
1104	5	-2.303032E-002	-4.428618E-003	-8.126781E-002	-1.562751E-001
1104	6	-2.283110E-002	-4.450299E-003	-8.056370E-002	-1.570392E-001
1104	7	-2.303040E-002	-4.472807E-003	-8.126716E-002	-1.578034E-001
1104	8	-2.323031E-002	-4.450299E-003	-8.197295E-002	-1.570392E-001
1104	9	-2.303036E-002	-4.450299E-003	-8.126802E-002	-1.570392E-001
1105	1	-2.387380E-002	-5.216759E-003	-8.424179E-002	-1.840878E-001
1105	2	-2.336229E-002	-5.216808E-003	-8.243769E-002	-1.840878E-001
1105	3	-2.336250E-002	-5.272254E-003	-8.243875E-002	-1.860457E-001
1105	4	-2.387392E-002	-5.272318E-003	-8.424328E-002	-1.860440E-001
1105	5	-2.361799E-002	-5.216703E-003	-8.333799E-002	-1.840821E-001
1105	6	-2.336240E-002	-5.244510E-003	-8.243846E-002	-1.850644E-001
1105	7	-2.361787E-002	-5.272286E-003	-8.333874E-002	-1.860429E-001
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1105	9	-2.361734E-002	-5.244510E-003	-8.334149E-002	-1.850644E-001
1106	1	-2.472229E-002	-5.995032E-003	-8.723510E-002	-2.115462E-001
1106	2	-2.404569E-002	-5.995070E-003	-8.485021E-002	-2.115465E-001
1106	3	-2.404603E-002	-6.068401E-003	-8.485118E-002	-2.141334E-001
1106	4	-2.472145E-002	-6.068345E-003	-8.723453E-002	-2.141354E-001
1106	5	-2.438425E-002	-5.994889E-003	-8.604649E-002	-2.115445E-001
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1106	8	-2.472218E-002	-6.031670E-003	-8.723813E-002	-2.120390E-001
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1107	1	-2.503791E-002	-6.762964E-003	-9.118088E-002	-2.386468E-001
1107	2	-2.495074E-002	-6.763022E-003	-8.804088E-002	-2.386472E-001
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1107	4	-2.503919E-002	-6.859319E-003	-9.117737E-002	-2.420447E-001
1107	5	-2.539446E-002	-6.762912E-003	-8.960888E-002	-2.386451E-001
1107	6	-2.495863E-002	-6.811157E-003	-8.804276E-002	-2.403431E-001
1107	7	-2.539427E-002	-6.859319E-003	-8.961049E-002	-2.420437E-001
1107	8	-2.503890E-002	-6.811157E-003	-9.118103E-002	-2.403431E-001
1107	9	-2.539484E-002	-6.811157E-003	-8.960940E-002	-2.403431E-001
1108	1	-2.185632E-002	-4.110583E-004	-7.712499E-002	-1.453592E-002
1108	2	-2.184441E-002	-4.110251E-004	-7.708198E-002	-1.453364E-002
1108	3	-2.184464E-002	-4.130602E-004	-7.708479E-002	-1.457855E-002
1108	4	-2.185522E-002	-4.131606E-004	-7.712331E-002	-1.457982E-002
1108	5	-2.185096E-002	-4.119067E-004	-7.710393E-002	-1.452977E-002
1108	6	-2.184427E-002	-4.125771E-004	-7.708501E-002	-1.455737E-002
1108	7	-2.185080E-002	-4.131272E-004	-7.710436E-002	-1.458069E-002
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1109	1	-2.195648E-002	-1.222914E-003	-7.747748E-002	-4.315080E-002
1109	2	-2.187040E-002	-1.222782E-003	-7.717471E-002	-4.314857E-002
1109	3	-2.187107E-002	-1.231950E-003	-7.717637E-002	-4.347490E-002
1109	4	-2.195582E-002	-1.232051E-003	-7.747885E-002	-4.347536E-002
1109	5	-2.191292E-002	-1.222744E-003	-7.732531E-002	-4.314850E-002
1109	6	-2.187080E-002	-1.227450E-003	-7.717531E-002	-4.331263E-002
1109	7	-2.191397E-002	-1.232103E-003	-7.732604E-002	-4.347704E-002
1109	8	-2.195561E-002	-1.227450E-003	-7.747634E-002	-4.331263E-002
1109	9	-2.191386E-002	-1.227450E-003	-7.732746E-002	-4.331263E-002
1110	1	-2.212060E-002	-2.029891E-003	-7.805803E-002	-7.162935E-002
1110	2	-2.197389E-002	-2.029950E-003	-7.753970E-002	-7.163001E-002
1110	3	-2.197368E-002	-2.045885E-003	-7.754159E-002	-7.219344E-002
1110	4	-2.212263E-002	-2.045942E-003	-7.806446E-002	-7.219320E-002
1110	5	-2.204748E-002	-2.029828E-003	-7.780030E-002	-7.162496E-002
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1155	4	-2.653253E-002	-9.086458E-003	-9.362483E-002	-3.206352E-001
1155	5	-2.575714E-002	-8.917795E-003	-9.088597E-002	-3.146814E-001
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1155	8	-2.653230E-002	-9.082216E-003	-9.362390E-002	-3.176621E-001
1155	9	-2.575714E-002	-9.082111E-003	-9.088597E-002	-3.176588E-001
1156	1	-2.919398E-002	-9.884086E-003	-1.030158E-001	-3.487851E-001
1156	2	-2.706722E-002	-9.884181E-003	-9.551208E-002	-3.487844E-001
1156	3	-2.706669E-002	-1.011552E-002	-9.550995E-002	-3.569479E-001
1156	4	-2.919486E-002	-1.011547E-002	-1.030188E-001	-3.569474E-001
1156	5	-2.813184E-002	-9.884140E-003	-9.926954E-002	-3.487795E-001
1156	6	-2.706731E-002	-9.999819E-003	-9.551244E-002	-3.528656E-001
1156	7	-2.813111E-002	-1.011554E-002	-9.926589E-002	-3.569458E-001
1156	8	-2.919486E-002	-9.999819E-003	-1.030188E-001	-3.528656E-001
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1157	1	-3.315729E-002	-1.097159E-002	-1.170078E-001	-3.871563E-001
1157	2	-2.996928E-002	-1.097155E-002	-1.057507E-001	-3.871552E-001
1157	3	-2.996818E-002	-1.131764E-002	-1.057494E-001	-3.993644E-001
1157	4	-3.315773E-002	-1.131770E-002	-1.170079E-001	-3.993635E-001
1157	5	-3.156251E-002	-1.097154E-002	-1.113769E-001	-3.871541E-001
1157	6	-2.996826E-002	-1.114465E-002	-1.057500E-001	-3.932601E-001
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1158	1	-3.890048E-002	-1.239915E-002	-1.372640E-001	-4.375204E-001
1158	2	-3.429106E-002	-1.239903E-002	-1.210045E-001	-4.375208E-001
1158	3	-3.429271E-002	-1.290025E-002	-1.210060E-001	-4.552085E-001
1158	4	-3.889889E-002	-1.290030E-002	-1.372653E-001	-4.552111E-001
1158	5	-3.659571E-002	-1.239900E-002	-1.291338E-001	-4.375268E-001
1158	6	-3.429196E-002	-1.264966E-002	-1.210093E-001	-4.463693E-001
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1160	2	-1.915219E-002	-4.271266E-004	-6.758077E-002	-1.507340E-002
1160	3	-1.915162E-002	-4.296866E-004	-6.758112E-002	-1.516184E-002
1160	4	-1.917533E-002	-4.296917E-004	-6.766296E-002	-1.516306E-002
1160	5	-1.916468E-002	-4.270346E-004	-6.762245E-002	-1.507045E-002
1160	6	-1.915172E-002	-4.284454E-004	-6.758019E-002	-1.511638E-002
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1161	1	-1.926797E-002	-1.257012E-003	-6.798658E-002	-4.435299E-002
1161	2	-1.919024E-002	-1.256891E-003	-6.771599E-002	-4.435567E-002
1161	3	-1.919062E-002	-1.265308E-003	-6.771559E-002	-4.465894E-002
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1162	3	-1.929925E-002	-2.104852E-003	-6.810249E-002	-7.427450E-002
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1162	5	-1.937012E-002	-2.089563E-003	-6.834971E-002	-7.373455E-002
1162	6	-1.929958E-002	-2.097292E-003	-6.810264E-002	-7.400785E-002
1162	7	-1.936975E-002	-2.104896E-003	-6.835098E-002	-7.427698E-002
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1163	1	-1.970174E-002	-2.922538E-003	-6.952135E-002	-1.031257E-001
1163	2	-1.949126E-002	-2.922418E-003	-6.877851E-002	-1.031246E-001
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1164	1	-2.006692E-002	-3.757189E-003	-7.081110E-002	-1.325828E-001
1164	2	-1.977408E-002	-3.757288E-003	-6.977830E-002	-1.325855E-001
1164	3	-1.977500E-002	-3.788791E-003	-6.978116E-002	-1.336978E-001
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1165	3	-2.016521E-002	-4.637179E-003	-7.115442E-002	-1.636279E-001
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1166	3	-2.068591E-002	-5.489323E-003	-7.299493E-002	-1.937038E-001
1166	4	-2.119941E-002	-5.489311E-003	-7.481007E-002	-1.937044E-001
1166	5	-2.094222E-002	-5.433629E-003	-7.390086E-002	-1.917359E-001
1166	6	-2.068676E-002	-5.461520E-003	-7.299417E-002	-1.927220E-001
1166	7	-2.094240E-002	-5.489480E-003	-7.390131E-002	-1.937060E-001
1166	8	-2.120041E-002	-5.461520E-003	-7.480545E-002	-1.927220E-001
1166	9	-2.094203E-002	-5.461520E-003	-7.390039E-002	-1.927220E-001
1167	1	-2.204011E-002	-6.279982E-003	-7.777286E-002	-2.215971E-001
1167	2	-2.137078E-002	-6.279882E-003	-7.541003E-002	-2.215999E-001
1167	3	-2.137124E-002	-6.352581E-003	-7.541434E-002	-2.241580E-001
1167	4	-2.203994E-002	-6.352365E-003	-7.777419E-002	-2.241585E-001
1167	5	-2.170512E-002	-6.279789E-003	-7.659034E-002	-2.215969E-001
1167	6	-2.137087E-002	-6.316140E-003	-7.541528E-002	-2.228778E-001
1167	7	-2.170512E-002	-6.352338E-003	-7.659034E-002	-2.241563E-001
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1168	1	-2.314225E-002	-7.136919E-003	-8.165666E-002	-2.518402E-001
1168	2	-2.226486E-002	-7.136888E-003	-7.856394E-002	-2.518429E-001
1168	3	-2.226449E-002	-7.231875E-003	-7.856459E-002	-2.551903E-001
1168	4	-2.314063E-002	-7.231852E-003	-8.165683E-002	-2.551906E-001

1168	5	-2.270367E-002	-7.136781E-003	-8.011351E-002	-2.518399E-001
1168	6	-2.226396E-002	-7.184384E-003	-7.856283E-002	-2.535154E-001
1168	7	-2.270262E-002	-7.231819E-003	-8.011363E-002	-2.551886E-001
1168	8	-2.313966E-002	-7.184384E-003	-8.165675E-002	-2.535154E-001
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1169	1	-2.458707E-002	-8.012118E-003	-8.676107E-002	-2.827226E-001
1169	2	-2.343624E-002	-8.012099E-003	-8.269855E-002	-2.827215E-001
1169	3	-2.343684E-002	-8.137033E-003	-8.269783E-002	-2.871303E-001
1169	4	-2.458612E-002	-8.137004E-003	-8.675631E-002	-2.871303E-001
1169	5	-2.401091E-002	-8.012006E-003	-8.473136E-002	-2.827185E-001
1169	6	-2.343701E-002	-8.074528E-003	-8.269819E-002	-2.849254E-001
1169	7	-2.401187E-002	-8.136855E-003	-8.473089E-002	-2.871284E-001
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1170	1	-1.752105E-003	-4.359933E-003	-6.182916E-002	-1.538423E+000
1170	2	-1.612635E-003	-4.383472E-003	-5.690439E-002	-1.546738E+000
1170	3	-1.624778E-003	-4.420211E-003	-5.733554E-002	-1.559791E+000
1170	4	-1.765188E-003	-4.392595E-003	-6.229865E-002	-1.549965E+000
1170	5	-1.686296E-003	-4.371077E-003	-5.950032E-002	-1.542372E+000
1170	6	-1.618835E-003	-4.401662E-003	-5.711701E-002	-1.553166E+000
1170	7	-1.698846E-003	-4.405648E-003	-5.994339E-002	-1.554574E+000
1170	8	-1.758784E-003	-4.376126E-003	-6.285788E-002	-1.544162E+000
1170	9	-1.692480E-003	-4.388219E-003	-5.972189E-002	-1.548419E+000
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1171	2	-4.989183E-002	-3.395524E-002	-1.760552E-001	-1.198174E+000
1171	3	-4.989183E-002	-3.395524E-002	-1.760552E-001	-1.198174E+000
1172	1	-3.918458E-002	-2.295317E-002	-1.382692E-001	-8.899504E-001
1172	2	-3.782467E-002	-2.352010E-002	-1.334717E-001	-8.299572E-001
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1174	1	-4.119150E-002	-1.327644E-002	-1.453501E-001	-4.684876E-001
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1174	3	-3.983154E-002	-1.408842E-002	-1.087928E-001	-4.971424E-001
1174	4	-3.840003E-002	-1.408856E-002	-1.355029E-001	-4.971391E-001
1175	1	-5.586794E-002	-1.630493E-002	-1.971350E-001	-5.753538E-001
1175	2	-3.944660E-002	-1.630496E-002	-1.391951E-001	-5.753540E-001
1175	3	-3.330554E-002	-1.803754E-002	-1.175248E-001	-6.364890E-001
1175	4	-4.946157E-002	-1.803747E-002	-1.745387E-001	-6.364897E-001
1176	1	-2.258711E-002	-7.509756E-003	-7.970263E-002	-2.649338E-001
1176	2	-2.300852E-002	-7.317461E-003	-8.119273E-002	-2.582095E-001
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1177	3	-2.186793E-002	-8.478059E-003	-7.716637E-002	-2.991664E-001
1177	4	-2.405453E-002	-8.478086E-003	-8.487876E-002	-2.991673E-001
1178	1	-2.482412E-002	-9.221022E-003	-8.477371E-002	-3.253887E-001
1178	2	-2.327426E-002	-9.515578E-003	-8.212722E-002	-3.357785E-001
1178	3	-2.601404E-002	-9.515557E-003	-9.179538E-002	-3.357785E-001
1178	4	-2.680837E-002	-9.221175E-003	-9.459638E-002	-3.253869E-001
1179	1	-2.628759E-002	-1.029302E-002	-9.247744E-002	-3.632881E-001
1179	2	-2.512851E-002	-1.067782E-002	-8.866857E-002	-3.767885E-001
1179	3	-2.871145E-002	-1.067847E-002	-1.013150E-001	-3.768878E-001
1179	4	-2.984873E-002	-1.029327E-002	-1.053242E-001	-3.632158E-001
1180	1	-1.991172E-002	-4.787433E-003	-7.026266E-002	-1.689344E-001
1180	2	-2.806177E-002	-4.682410E-003	-7.079308E-002	-1.652322E-001

1180	3	-1.907213E-002	-4.682505E-003	-6.729902E-002	-1.652342E-001
1180	4	-1.893677E-002	-4.787534E-003	-6.682098E-002	-1.689357E-001
1181	1	-2.058652E-002	-5.675898E-003	-7.264416E-002	-2.002848E-001
1181	2	-2.088444E-002	-5.546094E-003	-7.341474E-002	-1.957042E-001
1181	3	-1.958247E-002	-5.545971E-003	-6.909784E-002	-1.957088E-001
1181	4	-1.938894E-002	-5.675958E-003	-6.839108E-002	-2.002861E-001
1182	1	-2.146284E-002	-6.580374E-003	-7.573846E-002	-2.322066E-001
1182	2	-2.177131E-002	-6.422228E-003	-7.682411E-002	-2.266232E-001
1182	3	-2.027708E-002	-6.422147E-003	-7.155189E-002	-2.266183E-001
1182	4	-1.999358E-002	-6.580058E-003	-7.055002E-002	-2.321949E-001
1183	1	-1.846419E-002	-1.276598E-003	-6.516807E-002	-4.504693E-002
1183	2	-1.821555E-002	-1.276501E-003	-6.427698E-002	-4.504625E-002
1183	3	-1.820765E-002	-1.303894E-003	-6.424979E-002	-4.598112E-002
1183	4	-1.845334E-002	-1.303117E-003	-6.511368E-002	-4.598101E-002
1184	1	-1.870134E-002	-2.123740E-003	-6.599187E-002	-7.494111E-002
1184	2	-1.828251E-002	-2.123725E-003	-6.451397E-002	-7.494233E-002
1184	3	-1.825794E-002	-2.168248E-003	-6.442485E-002	-7.650945E-002
1184	4	-1.866945E-002	-2.168244E-003	-6.587901E-002	-7.651033E-002
1185	1	-1.904147E-002	-2.972620E-003	-6.718762E-002	-1.048940E-001
1185	2	-1.844063E-002	-2.972545E-003	-6.507134E-002	-1.048952E-001
1185	3	-1.838931E-002	-3.036343E-003	-6.489036E-002	-1.071465E-001
1185	4	-1.898200E-002	-3.036395E-003	-6.697646E-002	-1.071454E-001
1186	1	-1.937884E-002	-3.908220E-003	-6.830284E-002	-1.379140E-001
1186	2	-1.947766E-002	-3.824611E-003	-6.873177E-002	-1.349609E-001
1186	3	-1.869079E-002	-3.824464E-003	-6.595232E-002	-1.349558E-001
1186	4	-1.868179E-002	-3.908119E-003	-6.564088E-002	-1.379088E-001
1187	1	-1.825113E-002	-4.322328E-004	-6.440292E-002	-1.525676E-002
1187	2	-1.825115E-002	-4.383840E-004	-6.440143E-002	-1.546919E-002
1187	3	-1.830564E-002	-4.382849E-004	-6.459665E-002	-1.546636E-002
1187	4	-1.830706E-002	-4.322783E-004	-6.459981E-002	-1.525463E-002
1188	1	-5.963573E-002	-3.556019E-002	-2.104391E-001	-1.254814E+000
1188	2	-5.963573E-002	-3.556019E-002	-2.104391E-001	-1.254814E+000
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1189	1	-3.692361E-002	-2.384717E-002	-1.302906E-001	-8.414955E-001
1189	2	-3.692201E-002	-2.391210E-002	-1.302873E-001	-8.437878E-001
1189	3	-3.739351E-002	-2.391220E-002	-1.319514E-001	-8.437911E-001
1189	4	-3.739633E-002	-2.384717E-002	-1.319563E-001	-8.414983E-001
1189	5	-3.692245E-002	-2.387959E-002	-1.302898E-001	-8.426431E-001
1189	6	-3.715805E-002	-2.391209E-002	-1.311191E-001	-8.437893E-001
1189	7	-3.739501E-002	-2.387970E-002	-1.319552E-001	-8.426429E-001
1189	8	-3.715844E-002	-2.384722E-002	-1.311225E-001	-8.414967E-001
1189	9	-3.715796E-002	-2.387970E-002	-1.311208E-001	-8.426410E-001
1190	1	-3.303253E-002	-3.497494E-002	-1.165612E-001	-1.234164E+000
1190	2	-3.309480E-002	-3.895260E-002	-1.167823E-001	-1.892224E+000
1190	3	-3.790181E-003	-3.894716E-002	-1.337346E-002	-1.892031E+000
1190	4	-3.727401E-003	-3.497431E-002	-1.315474E-002	-1.234140E+000
1190	5	-3.306454E-002	-3.296376E-002	-1.166756E-001	-1.163193E+000
1190	6	-1.845281E-002	-3.894982E-002	-6.510946E-002	-1.892130E+000
1190	7	-3.760142E-003	-3.296054E-002	-1.326569E-002	-1.163083E+000
1190	8	-1.838933E-002	-3.497461E-002	-6.489111E-002	-1.234150E+000
1190	9	-1.842031E-002	-3.296223E-002	-6.499949E-002	-1.163136E+000
1191	1	-3.170409E-002	-1.446271E-002	-1.118746E-001	-5.103459E-001
1191	2	-3.169543E-002	-1.503467E-002	-1.118427E-001	-5.305273E-001
1191	3	-3.585239E-002	-1.503463E-002	-1.265135E-001	-5.305278E-001
1191	4	-3.586112E-002	-1.446272E-002	-1.265455E-001	-5.103490E-001
1191	5	-3.169845E-002	-1.474877E-002	-1.118563E-001	-5.204303E-001
1191	6	-3.377372E-002	-1.503465E-002	-1.191779E-001	-5.305276E-001
1191	7	-3.585675E-002	-1.474877E-002	-1.265295E-001	-5.204303E-001
1191	8	-3.378250E-002	-1.446282E-002	-1.192092E-001	-5.103493E-001
1191	9	-3.377835E-002	-1.474877E-002	-1.191931E-001	-5.204303E-001

1192	1	-3.646137E-002	-1.866588E-002	-1.286614E-001	-6.586667E-001
1192	2	-3.646098E-002	-1.872264E-002	-1.286586E-001	-6.606650E-001
1192	3	-3.687305E-002	-1.872260E-002	-1.301136E-001	-6.606657E-001
1192	4	-3.687387E-002	-1.866578E-002	-1.301161E-001	-6.586635E-001
1192	5	-3.645929E-002	-1.869428E-002	-1.286561E-001	-6.596678E-001
1192	6	-3.666679E-002	-1.872262E-002	-1.293865E-001	-6.606658E-001
1192	7	-3.687346E-002	-1.869428E-002	-1.301149E-001	-6.596678E-001
1192	8	-3.666776E-002	-1.866600E-002	-1.293894E-001	-6.586666E-001
1192	9	-3.666727E-002	-1.869428E-002	-1.293875E-001	-6.596678E-001
1193	1	-2.520696E-002	-1.085767E-002	-8.894759E-002	-3.831380E-001
1193	2	-2.520528E-002	-1.114507E-002	-8.894269E-002	-3.932778E-001
1193	3	-2.729344E-002	-1.114514E-002	-9.631835E-002	-3.932796E-001
1193	4	-2.729780E-002	-1.085813E-002	-9.632537E-002	-3.831499E-001
1193	5	-2.520707E-002	-1.100161E-002	-8.894686E-002	-3.882121E-001
1193	6	-2.625050E-002	-1.114521E-002	-9.263005E-002	-3.932829E-001
1193	7	-2.729525E-002	-1.100178E-002	-9.631728E-002	-3.882201E-001
1193	8	-2.625246E-002	-1.085790E-002	-9.263756E-002	-3.831427E-001
1193	9	-2.625147E-002	-1.100161E-002	-9.263447E-002	-3.882176E-001
1194	1	-2.797772E-002	-1.236007E-002	-9.872575E-002	-4.361539E-001
1194	2	-2.797210E-002	-1.273782E-002	-9.870528E-002	-4.494817E-001
1194	3	-3.072495E-002	-1.273832E-002	-1.084176E-001	-4.495025E-001
1194	4	-3.073007E-002	-1.236020E-002	-1.084385E-001	-4.361551E-001
1194	5	-2.797551E-002	-1.254889E-002	-9.871570E-002	-4.428154E-001
1194	6	-2.934758E-002	-1.273817E-002	-1.035588E-001	-4.494917E-001
1194	7	-3.072773E-002	-1.254917E-002	-1.084314E-001	-4.428261E-001
1194	8	-2.935334E-002	-1.236000E-002	-1.035801E-001	-4.361522E-001
1194	9	-2.935064E-002	-1.254914E-002	-1.035692E-001	-4.428196E-001
1195	1	-2.313519E-002	-9.651599E-003	-8.163965E-002	-3.405815E-001
1195	2	-2.313285E-002	-9.863733E-003	-8.162959E-002	-3.488670E-001
1195	3	-2.467783E-002	-9.863719E-003	-8.707988E-002	-3.488611E-001
1195	4	-2.467791E-002	-9.651670E-003	-8.707788E-002	-3.405790E-001
1195	5	-2.313363E-002	-9.757611E-003	-8.163238E-002	-3.443196E-001
1195	6	-2.390494E-002	-9.863761E-003	-8.435464E-002	-3.488617E-001
1195	7	-2.467751E-002	-9.757624E-003	-8.708026E-002	-3.443191E-001
1195	8	-2.390640E-002	-9.651694E-003	-8.435916E-002	-3.405845E-001
1195	9	-2.390582E-002	-9.757617E-003	-8.435773E-002	-3.443193E-001
1196	1	-1.946400E-002	-6.650690E-003	-6.868432E-002	-2.346814E-001
1196	2	-1.946279E-002	-6.747298E-003	-6.867817E-002	-2.380927E-001
1196	3	-2.016617E-002	-6.747283E-003	-7.115993E-002	-2.380939E-001
1196	4	-2.016752E-002	-6.650757E-003	-7.116411E-002	-2.346858E-001
1196	5	-1.946243E-002	-6.698960E-003	-6.867857E-002	-2.363803E-001
1196	6	-1.981455E-002	-6.747192E-003	-6.991939E-002	-2.380912E-001
1196	7	-2.016755E-002	-6.699153E-003	-7.116438E-002	-2.363911E-001
1196	8	-1.981571E-002	-6.650786E-003	-6.992500E-002	-2.346856E-001
1196	9	-1.981513E-002	-6.699014E-003	-6.992292E-002	-2.363876E-001
1197	1	-2.030471E-002	-7.596441E-003	-7.193252E-002	-2.680564E-001
1197	2	-2.030330E-002	-7.719852E-003	-7.192729E-002	-2.724080E-001
1197	3	-2.127976E-002	-7.719837E-003	-7.509029E-002	-2.724079E-001
1197	4	-2.128110E-002	-7.596497E-003	-7.509406E-002	-2.680572E-001
1197	5	-2.038426E-002	-7.657994E-003	-7.193086E-002	-2.702272E-001
1197	6	-2.083189E-002	-7.719686E-003	-7.350958E-002	-2.724079E-001
1197	7	-2.127984E-002	-7.657994E-003	-7.508932E-002	-2.702272E-001
1197	8	-2.083301E-002	-7.596529E-003	-7.351337E-002	-2.680554E-001
1197	9	-2.083270E-002	-7.657994E-003	-7.351103E-002	-2.702272E-001
1198	1	-2.158184E-002	-8.585870E-003	-7.615484E-002	-3.029696E-001
1198	2	-2.158083E-002	-8.747179E-003	-7.615489E-002	-3.086635E-001
1198	3	-2.275389E-002	-8.747410E-003	-8.029255E-002	-3.086730E-001
1198	4	-2.275773E-002	-8.585877E-003	-8.030421E-002	-3.029716E-001
1198	5	-2.158094E-002	-8.666651E-003	-7.615572E-002	-3.058211E-001
1198	6	-2.216714E-002	-8.747303E-003	-7.822325E-002	-3.086689E-001

1198	7	-2.275619E-002	-8.666730E-003	-8.029987E-002	-3.058242E-001
1198	8	-2.216859E-002	-8.585799E-003	-7.822627E-002	-3.029683E-001
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1199	2	-1.876691E-002	-5.805944E-003	-6.622426E-002	-2.048766E-001
1199	3	-1.929747E-002	-5.805898E-003	-6.809734E-002	-2.048733E-001
1199	4	-1.929900E-002	-5.733018E-003	-6.810063E-002	-2.023036E-001
1199	5	-1.876792E-002	-5.769437E-003	-6.622592E-002	-2.035898E-001
1199	6	-1.903266E-002	-5.805962E-003	-6.716093E-002	-2.048741E-001
1199	7	-1.929815E-002	-5.769573E-003	-6.809917E-002	-2.035894E-001
1199	8	-1.903285E-002	-5.733069E-003	-6.716251E-002	-2.023052E-001
1199	9	-1.903312E-002	-5.769565E-003	-6.716179E-002	-2.035886E-001
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1200	2	-1.782618E-002	-3.986370E-003	-6.290207E-002	-1.406676E-001
1200	3	-1.813193E-002	-3.986401E-003	-6.398256E-002	-1.406685E-001
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1200	5	-1.782511E-002	-3.965264E-003	-6.289899E-002	-1.399218E-001
1200	6	-1.797889E-002	-3.986435E-003	-6.344238E-002	-1.406679E-001
1200	7	-1.813245E-002	-3.965353E-003	-6.398415E-002	-1.399250E-001
1200	8	-1.797944E-002	-3.944083E-003	-6.344329E-002	-1.391779E-001
1200	9	-1.797989E-002	-3.965232E-003	-6.344259E-002	-1.399243E-001
1201	1	-1.822333E-002	-4.833038E-003	-6.430582E-002	-1.705432E-001
1201	2	-1.822270E-002	-4.889219E-003	-6.430058E-002	-1.725251E-001
1201	3	-1.862598E-002	-4.889174E-003	-6.574081E-002	-1.725291E-001
1201	4	-1.863189E-002	-4.833130E-003	-6.574335E-002	-1.705463E-001
1201	5	-1.822266E-002	-4.861139E-003	-6.430095E-002	-1.715369E-001
1201	6	-1.842642E-002	-4.889187E-003	-6.502114E-002	-1.725289E-001
1201	7	-1.863138E-002	-4.861169E-003	-6.574354E-002	-1.715380E-001
1201	8	-1.842695E-002	-4.833112E-003	-6.502331E-002	-1.705461E-001
1201	9	-1.842675E-002	-4.861127E-003	-6.502243E-002	-1.715373E-001
1202	1	-1.733786E-002	-2.187229E-003	-6.117984E-002	-7.717580E-002
1202	2	-1.733811E-002	-2.207892E-003	-6.117988E-002	-7.790928E-002
1202	3	-1.748843E-002	-2.207789E-003	-6.171895E-002	-7.791049E-002
1202	4	-1.748878E-002	-2.187214E-003	-6.171394E-002	-7.718205E-002
1202	5	-1.733901E-002	-2.197544E-003	-6.118258E-002	-7.754480E-002
1202	6	-1.741314E-002	-2.207781E-003	-6.144668E-002	-7.790989E-002
1202	7	-1.748903E-002	-2.197544E-003	-6.171235E-002	-7.754480E-002
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1203	1	-1.752931E-002	-3.063677E-003	-6.185549E-002	-1.081049E-001
1203	2	-1.752832E-002	-3.093858E-003	-6.185243E-002	-1.091721E-001
1203	3	-1.774830E-002	-3.093804E-003	-6.262743E-002	-1.091705E-001
1203	4	-1.774943E-002	-3.063659E-003	-6.263124E-002	-1.081062E-001
1203	5	-1.752854E-002	-3.078736E-003	-6.185369E-002	-1.086391E-001
1203	6	-1.763862E-002	-3.093885E-003	-6.224269E-002	-1.091727E-001
1203	7	-1.774865E-002	-3.078736E-003	-6.263081E-002	-1.086391E-001
1203	8	-1.763923E-002	-3.063595E-003	-6.224344E-002	-1.081041E-001
1203	9	-1.763901E-002	-3.078736E-003	-6.224240E-002	-1.086391E-001
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1204	2	-1.718462E-002	-4.450301E-004	-6.063851E-002	-1.570100E-002
1204	3	-1.721437E-002	-4.450166E-004	-6.074308E-002	-1.570113E-002
1204	4	-1.721446E-002	-4.408449E-004	-6.074432E-002	-1.555397E-002
1204	5	-1.718481E-002	-4.428860E-004	-6.063922E-002	-1.562972E-002
1204	6	-1.719977E-002	-4.448684E-004	-6.069213E-002	-1.570894E-002
1204	7	-1.721507E-002	-4.430239E-004	-6.074683E-002	-1.562993E-002
1204	8	-1.720813E-002	-4.409137E-004	-6.069234E-002	-1.555798E-002
1204	9	-1.719945E-002	-4.429178E-004	-6.069168E-002	-1.563001E-002
1205	1	-1.721750E-002	-1.314268E-003	-6.075699E-002	-4.637693E-002
1205	2	-1.721702E-002	-1.326018E-003	-6.075465E-002	-4.679936E-002
1205	3	-1.730354E-002	-1.325920E-003	-6.105815E-002	-4.679105E-002

1205	4	-1.730434E-002	-1.314285E-003	-6.106200E-002	-4.637438E-002
1205	5	-1.721808E-002	-1.320137E-003	-6.075676E-002	-4.658428E-002
1205	6	-1.726015E-002	-1.325965E-003	-6.090741E-002	-4.679163E-002
1205	7	-1.730444E-002	-1.320096E-003	-6.106208E-002	-4.658222E-002
1205	8	-1.726050E-002	-1.314306E-003	-6.090805E-002	-4.638086E-002
1205	9	-1.726066E-002	-1.320141E-003	-6.090784E-002	-4.658158E-002
1206	1	-2.159113E-002	-2.998785E-002	-7.618817E-002	-1.058182E+000
1206	2	-2.162772E-002	-2.739224E-002	-7.631733E-002	-9.665906E-001
1206	3	-2.744908E-003	-2.739197E-002	-9.684519E-003	-9.665785E-001
1206	4	-2.738783E-003	-2.998436E-002	-9.664476E-003	-1.058061E+000
1206	5	-2.161049E-002	-2.869120E-002	-7.625436E-002	-1.012429E+000
1206	6	-1.218040E-002	-2.739210E-002	-4.297962E-002	-9.665866E-001
1206	7	-2.742322E-003	-2.868912E-002	-9.676404E-003	-1.012356E+000
1206	8	-1.215998E-002	-2.998601E-002	-4.290748E-002	-1.058124E+000
1206	9	-1.216999E-002	-2.869011E-002	-4.294513E-002	-1.012391E+000
1207	1	-3.037017E-002	-2.381781E-002	-1.071669E-001	-8.404632E-001
1207	2	-3.037030E-002	-2.310677E-002	-1.071686E-001	-8.153742E-001
1207	3	-2.519730E-002	-2.310675E-002	-8.891510E-002	-8.153670E-001
1207	4	-2.518892E-002	-2.381793E-002	-8.888204E-002	-8.404623E-001
1207	5	-3.036947E-002	-2.346202E-002	-1.071664E-001	-8.279060E-001
1207	6	-2.778484E-002	-2.310677E-002	-9.884298E-002	-8.153708E-001
1207	7	-2.519200E-002	-2.346212E-002	-8.889467E-002	-8.279064E-001
1207	8	-2.777887E-002	-2.381804E-002	-9.882382E-002	-8.404627E-001
1207	9	-2.778178E-002	-2.346213E-002	-9.883265E-002	-8.279091E-001
1208	1	-2.575471E-002	-1.283693E-002	-9.888229E-002	-4.529754E-001
1208	2	-2.574958E-002	-1.314285E-002	-9.886193E-002	-4.637708E-001
1208	3	-2.797591E-002	-1.314278E-002	-9.871987E-002	-4.637716E-001
1208	4	-2.797664E-002	-1.283739E-002	-9.872130E-002	-4.529872E-001
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1208	6	-2.686389E-002	-1.314281E-002	-9.479361E-002	-4.637708E-001
1208	7	-2.797641E-002	-1.298996E-002	-9.872058E-002	-4.583763E-001
1208	8	-2.686615E-002	-1.283715E-002	-9.480167E-002	-4.529813E-001
1208	9	-2.686452E-002	-1.298987E-002	-9.479749E-002	-4.583741E-001
1209	1	-2.861070E-002	-1.516067E-002	-1.009593E-001	-5.349774E-001
1209	2	-2.860999E-002	-1.545509E-002	-1.009575E-001	-5.453643E-001
1209	3	-3.074885E-002	-1.545506E-002	-1.085022E-001	-5.453630E-001
1209	4	-3.075152E-002	-1.516075E-002	-1.085141E-001	-5.349791E-001
1209	5	-2.861118E-002	-1.530785E-002	-1.009615E-001	-5.401732E-001
1209	6	-2.967903E-002	-1.545502E-002	-1.047291E-001	-5.453637E-001
1209	7	-3.074934E-002	-1.530803E-002	-1.085081E-001	-5.401722E-001
1209	8	-2.968132E-002	-1.516078E-002	-1.047375E-001	-5.349764E-001
1209	9	-2.968008E-002	-1.530800E-002	-1.047333E-001	-5.401717E-001
1210	1	-3.102078E-002	-1.873256E-002	-1.094639E-001	-6.610187E-001
1210	2	-3.102149E-002	-1.874476E-002	-1.094647E-001	-6.614489E-001
1210	3	-3.110899E-002	-1.874477E-002	-1.097747E-001	-6.614490E-001
1210	4	-3.111064E-002	-1.873273E-002	-1.097771E-001	-6.610202E-001
1210	5	-3.102132E-002	-1.873866E-002	-1.094663E-001	-6.612312E-001
1210	6	-3.106585E-002	-1.874467E-002	-1.096213E-001	-6.614454E-001
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1211	1	-2.159309E-002	-9.922381E-003	-7.619490E-002	-3.501321E-001
1211	2	-2.159391E-002	-1.011282E-002	-7.619570E-002	-3.568508E-001
1211	3	-2.297815E-002	-1.011288E-002	-8.108433E-002	-3.568534E-001
1211	4	-2.298073E-002	-9.922489E-003	-8.109165E-002	-3.501327E-001
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1212	1	-2.342875E-002	-1.122238E-002	-8.264672E-002	-3.960044E-001
1212	2	-2.341713E-002	-1.146609E-002	-8.263274E-002	-4.046029E-001
1212	3	-2.519331E-002	-1.146604E-002	-8.890031E-002	-4.046019E-001
1212	4	-2.519727E-002	-1.122236E-002	-8.891511E-002	-3.960048E-001
1212	5	-2.341828E-002	-1.134416E-002	-8.263657E-002	-4.003046E-001
1212	6	-2.430546E-002	-1.146611E-002	-8.576635E-002	-4.046036E-001
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1213	1	-2.015402E-002	-8.791930E-003	-7.111814E-002	-3.182412E-001
1213	2	-2.015091E-002	-8.940516E-003	-7.110729E-002	-3.154838E-001
1213	3	-2.123454E-002	-8.940743E-003	-7.492828E-002	-3.154899E-001
1213	4	-2.123388E-002	-8.792186E-003	-7.492962E-002	-3.182404E-001
1213	5	-2.015278E-002	-8.866244E-003	-7.111462E-002	-3.128680E-001
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1214	1	-1.749488E-002	-5.826827E-003	-6.173420E-002	-2.056119E-001
1214	2	-1.749417E-002	-5.897494E-003	-6.173113E-002	-2.081044E-001
1214	3	-1.880817E-002	-5.897440E-003	-6.354626E-002	-2.081035E-001
1214	4	-1.880905E-002	-5.826624E-003	-6.354851E-002	-2.056054E-001
1214	5	-1.749422E-002	-5.862068E-003	-6.173314E-002	-2.068572E-001
1214	6	-1.775155E-002	-5.897394E-003	-6.263950E-002	-2.081016E-001
1214	7	-1.880932E-002	-5.862114E-003	-6.354788E-002	-2.068576E-001
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1215	2	-1.817831E-002	-6.862986E-003	-6.414638E-002	-2.421714E-001
1215	3	-1.882451E-002	-6.862905E-003	-6.642399E-002	-2.421740E-001
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1215	5	-1.817739E-002	-6.818603E-003	-6.414328E-002	-2.406094E-001
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1217	4	-1.737809E-002	-4.905204E-003	-6.132158E-002	-1.730836E-001
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1218	2	-1.612605E-002	-2.232465E-003	-5.690175E-002	-7.877596E-002
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1218	4	-1.626226E-002	-2.213660E-003	-5.738636E-002	-7.810935E-002
1218	5	-1.612679E-002	-2.223119E-003	-5.690458E-002	-7.844366E-002
1218	6	-1.619378E-002	-2.232563E-003	-5.714529E-002	-7.877572E-002

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1219	1	-1.631438E-002	-3.102572E-003	-5.756889E-002	-1.094762E-001
1219	2	-1.631416E-002	-3.132066E-003	-5.756946E-002	-1.105234E-001
1219	3	-1.652991E-002	-3.132153E-003	-5.832941E-002	-1.105251E-001
1219	4	-1.652961E-002	-3.102430E-003	-5.832799E-002	-1.094793E-001
1219	5	-1.631421E-002	-3.117350E-003	-5.756566E-002	-1.100006E-001
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1220	3	-1.688441E-002	-4.038802E-003	-5.958039E-002	-1.425178E-001
1220	4	-1.688531E-002	-3.998385E-003	-5.958316E-002	-1.410886E-001
1220	5	-1.659036E-002	-4.018655E-003	-5.854293E-002	-1.418041E-001
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1222	6	-1.597733E-002	-4.519334E-004	-5.638085E-002	-1.594761E-002
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1223	1	-1.527853E-002	-2.673988E-002	-5.391524E-002	-9.435679E-001
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1224	6	-2.590688E-002	-1.858107E-002	-9.141780E-002	-6.556690E-001
1224	7	-2.538404E-002	-1.865258E-002	-8.957362E-002	-6.581979E-001
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1225	1	-2.428538E-002	-2.288221E-002	-8.569720E-002	-8.074507E-001
1225	2	-2.429832E-002	-2.204935E-002	-8.574187E-002	-7.780516E-001
1225	3	-1.822928E-002	-2.204813E-002	-6.432580E-002	-7.780143E-001

1225	4	-1.821729E-002	-2.288225E-002	-6.428081E-002	-8.074456E-001
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1225	6	-2.126589E-002	-2.204864E-002	-7.504075E-002	-7.780355E-001
1225	7	-1.822242E-002	-2.246513E-002	-6.430236E-002	-7.927278E-001
1225	8	-2.125282E-002	-2.288239E-002	-7.499476E-002	-8.074512E-001
1225	9	-2.125931E-002	-2.246555E-002	-7.501758E-002	-7.927386E-001
1226	1	-2.343789E-002	-1.321920E-002	-8.270613E-002	-4.664692E-001
1226	2	-2.343027E-002	-1.343769E-002	-8.270586E-002	-4.741800E-001
1226	3	-2.502755E-002	-1.343779E-002	-8.831414E-002	-4.741794E-001
1226	4	-2.502939E-002	-1.321935E-002	-8.832384E-002	-4.664705E-001
1226	5	-2.343822E-002	-1.332865E-002	-8.270752E-002	-4.703292E-001
1226	6	-2.423270E-002	-1.343772E-002	-8.550936E-002	-4.741797E-001
1226	7	-2.502843E-002	-1.332861E-002	-8.831681E-002	-4.703301E-001
1226	8	-2.423425E-002	-1.321927E-002	-8.551596E-002	-4.664679E-001
1226	9	-2.423330E-002	-1.332861E-002	-8.551237E-002	-4.703306E-001
1227	1	-2.537065E-002	-1.551858E-002	-9.955535E-002	-5.476896E-001
1227	2	-2.537744E-002	-1.566298E-002	-9.954998E-002	-5.527042E-001
1227	3	-2.642825E-002	-1.566309E-002	-9.325691E-002	-5.527001E-001
1227	4	-2.642866E-002	-1.551882E-002	-9.325820E-002	-5.476145E-001
1227	5	-2.537875E-002	-1.559078E-002	-8.955506E-002	-5.501530E-001
1227	6	-2.590255E-002	-1.566305E-002	-9.140251E-002	-5.527045E-001
1227	7	-2.642804E-002	-1.559077E-002	-9.325740E-002	-5.501528E-001
1227	8	-2.590371E-002	-1.551875E-002	-9.140626E-002	-5.476120E-001
1227	9	-2.590322E-002	-1.559077E-002	-9.140338E-002	-5.501539E-001
1228	1	-1.867971E-002	-8.981492E-003	-6.591523E-002	-3.169381E-001
1228	2	-1.868004E-002	-9.115587E-003	-6.591413E-002	-3.216604E-001
1228	3	-1.965329E-002	-9.115594E-003	-6.935259E-002	-3.216614E-001
1228	4	-1.965522E-002	-8.981409E-003	-6.935763E-002	-3.169368E-001
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1228	6	-1.916651E-002	-9.115471E-003	-6.763417E-002	-3.216619E-001
1228	7	-1.965537E-002	-9.048563E-003	-6.935717E-002	-3.193012E-001
1228	8	-1.916797E-002	-8.981521E-003	-6.763776E-002	-3.169324E-001
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1229	1	-1.995673E-002	-1.016497E-002	-7.042174E-002	-3.586954E-001
1229	2	-1.995392E-002	-1.033344E-002	-7.041132E-002	-3.646369E-001
1229	3	-2.117904E-002	-1.033343E-002	-7.473434E-002	-3.646362E-001
1229	4	-2.118176E-002	-1.016514E-002	-7.474469E-002	-3.586932E-001
1229	5	-1.995707E-002	-1.024914E-002	-7.042029E-002	-3.616662E-001
1229	6	-2.056676E-002	-1.033338E-002	-7.257569E-002	-3.646363E-001
1229	7	-2.118124E-002	-1.024910E-002	-7.474288E-002	-3.616630E-001
1229	8	-2.056970E-002	-1.016505E-002	-7.258399E-002	-3.586943E-001
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1230	1	-2.154981E-002	-1.153047E-002	-7.604145E-002	-4.068762E-001
1230	2	-2.154558E-002	-1.172923E-002	-7.603959E-002	-4.138939E-001
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1231	2	-1.764654E-002	-8.010183E-003	-6.226955E-002	-2.826567E-001
1231	3	-1.842384E-002	-8.010172E-003	-6.501118E-002	-2.826532E-001
1231	4	-1.842505E-002	-7.903592E-003	-6.501621E-002	-2.788951E-001
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1231	6	-1.803503E-002	-8.010183E-003	-6.364317E-002	-2.826532E-001
1231	7	-1.842361E-002	-7.956807E-003	-6.501274E-002	-2.807730E-001
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1232	1	-1.570998E-002	-4.973994E-003	-5.543762E-002	-1.755226E-001
1232	2	-1.571824E-002	-5.025322E-003	-5.543717E-002	-1.773262E-001
1232	3	-1.608322E-002	-5.025258E-003	-5.675271E-002	-1.773282E-001
1232	4	-1.608341E-002	-4.973960E-003	-5.675384E-002	-1.755209E-001
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1232	9	-1.589726E-002	-4.999712E-003	-5.609684E-002	-1.764212E-001
1233	1	-1.620866E-002	-5.917238E-003	-5.719404E-002	-2.088053E-001
1233	2	-1.620752E-002	-5.983260E-003	-5.719120E-002	-2.111280E-001
1233	3	-1.668616E-002	-5.983222E-003	-5.888070E-002	-2.111294E-001
1233	4	-1.668702E-002	-5.917207E-003	-5.888257E-002	-2.088082E-001
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1235	4	-1.527747E-002	-3.140535E-003	-5.390814E-002	-1.108189E-001
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1236	3	-1.562857E-002	-4.089176E-003	-5.514974E-002	-1.442948E-001
1236	4	-1.562941E-002	-4.050378E-003	-5.515118E-002	-1.429273E-001
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1237	3	-1.486996E-002	-1.353911E-003	-5.247087E-002	-4.777462E-002
1237	4	-1.486989E-002	-1.342934E-003	-5.246954E-002	-4.738640E-002
1237	5	-1.478863E-002	-1.348373E-003	-5.218775E-002	-4.758210E-002
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1238	1	-1.488895E-002	-2.238179E-003	-5.253928E-002	-7.897992E-002
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1238	3	-1.503768E-002	-2.258586E-003	-5.306222E-002	-7.969918E-002
1238	4	-1.503813E-002	-2.238241E-003	-5.306341E-002	-7.898046E-002
1238	5	-1.488856E-002	-2.248440E-003	-5.253807E-002	-7.934168E-002
1238	6	-1.496368E-002	-2.258620E-003	-5.280182E-002	-7.969690E-002

1238	7	-1.503779E-002	-2.248366E-003	-5.306334E-002	-7.933973E-002
1238	8	-1.496337E-002	-2.238194E-003	-5.280228E-002	-7.897968E-002
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1239	1	-1.475383E-002	-4.532467E-004	-5.206162E-002	-1.599692E-002
1239	2	-1.475344E-002	-4.561249E-004	-5.205968E-002	-1.609718E-002
1239	3	-1.477545E-002	-4.568900E-004	-5.213803E-002	-1.609420E-002
1239	4	-1.477449E-002	-4.532406E-004	-5.213395E-002	-1.598926E-002
1239	5	-1.475313E-002	-4.546432E-004	-5.206035E-002	-1.604477E-002
1239	6	-1.476413E-002	-4.561183E-004	-5.209903E-002	-1.609419E-002
1239	7	-1.477393E-002	-4.545952E-004	-5.213417E-002	-1.604255E-002
1239	8	-1.476431E-002	-4.531543E-004	-5.209903E-002	-1.599389E-002
1239	9	-1.476437E-002	-4.546707E-004	-5.209864E-002	-1.604080E-002
1240	1	-1.944830E-002	-2.181179E-002	-6.862888E-002	-7.696716E-001
1240	2	-1.945966E-002	-2.181693E-002	-6.866563E-002	-7.416250E-001
1240	3	-1.367767E-002	-2.181680E-002	-4.826564E-002	-7.416221E-001
1240	4	-1.367560E-002	-2.181049E-002	-4.825884E-002	-7.696310E-001
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1241	1	-1.134939E-002	-2.437628E-002	-4.804758E-002	-8.601652E-001
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1241	3	-1.131248E-003	-2.296891E-002	-3.994823E-003	-8.105862E-001
1241	4	-1.112282E-003	-2.437616E-002	-3.924638E-003	-8.601614E-001
1241	5	-1.134941E-002	-2.367198E-002	-4.005140E-002	-8.353162E-001
1241	6	-6.241382E-003	-2.296903E-002	-2.202252E-002	-8.105895E-001
1241	7	-1.121134E-003	-2.367198E-002	-3.956884E-003	-8.353162E-001
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1242	2	-2.234266E-002	-1.828608E-002	-7.883888E-002	-6.452593E-001
1242	3	-2.059763E-002	-1.828607E-002	-7.268498E-002	-6.452608E-001
1242	4	-2.059401E-002	-1.852545E-002	-7.267010E-002	-6.537011E-001
1242	5	-2.234084E-002	-1.840563E-002	-7.883498E-002	-6.494830E-001
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1244	3	-2.210209E-002	-1.363408E-002	-7.799006E-002	-4.811038E-001
1244	4	-2.210195E-002	-1.349033E-002	-7.799045E-002	-4.760413E-001
1244	5	-2.105812E-002	-1.356216E-002	-7.430837E-002	-4.785671E-001
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1245	3	-2.259258E-002	-1.573076E-002	-7.972193E-002	-5.550891E-001

1245	4	-2.259362E-002	-1.568997E-002	-7.972763E-002	-5.536545E-001
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1245	6	-2.244460E-002	-1.573059E-002	-7.920028E-002	-5.550891E-001
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1246	1	-1.622029E-002	-8.039986E-003	-5.723049E-002	-2.837029E-001
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1289	2	-1.104502E-002	-1.391547E-003	-3.897471E-002	-4.909981E-002
1289	3	-1.110351E-002	-1.391355E-003	-3.917978E-002	-4.909807E-002
1289	4	-1.110380E-002	-1.383425E-003	-3.918093E-002	-4.881755E-002
1289	5	-1.104381E-002	-1.387406E-003	-3.897079E-002	-4.895867E-002
1289	6	-1.107409E-002	-1.391464E-003	-3.907596E-002	-4.909751E-002
1289	7	-1.110307E-002	-1.387406E-003	-3.917801E-002	-4.895867E-002
1289	8	-1.107409E-002	-1.383544E-003	-3.907596E-002	-4.881755E-002
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1290	1	-1.112810E-002	-2.387600E-003	-3.926546E-002	-8.142939E-002
1290	2	-1.112845E-002	-2.323217E-003	-3.926768E-002	-8.190329E-002
1290	3	-1.124217E-002	-2.323422E-003	-3.967053E-002	-8.190457E-002
1290	4	-1.124201E-002	-2.387632E-003	-3.966814E-002	-8.143041E-002
1290	5	-1.112741E-002	-2.315414E-003	-3.926581E-002	-8.170771E-002
1290	6	-1.118503E-002	-2.323307E-003	-3.946925E-002	-8.197971E-002
1290	7	-1.124281E-002	-2.315414E-003	-3.967131E-002	-8.170771E-002
1290	8	-1.118501E-002	-2.307632E-003	-3.946827E-002	-8.142659E-002
1290	9	-1.118514E-002	-2.315414E-003	-3.946806E-002	-8.170771E-002
1291	1	-1.418709E-002	-1.559065E-002	-5.006387E-002	-5.501483E-001
1291	2	-1.418728E-002	-1.549373E-002	-5.006145E-002	-5.467269E-001
1291	3	-1.348262E-002	-1.549372E-002	-4.757468E-002	-5.467258E-001
1291	4	-1.348015E-002	-1.559070E-002	-4.756860E-002	-5.501506E-001
1291	5	-1.418777E-002	-1.554216E-002	-5.006394E-002	-5.484363E-001
1291	6	-1.383470E-002	-1.549366E-002	-4.881956E-002	-5.467268E-001
1291	7	-1.348146E-002	-1.554213E-002	-4.757081E-002	-5.484355E-001
1291	8	-1.383387E-002	-1.559063E-002	-4.881649E-002	-5.501476E-001
1291	9	-1.383466E-002	-1.554215E-002	-4.881751E-002	-5.484369E-001

1292	1	-1.305832E-002	-1.746177E-002	-4.607880E-002	-6.161753E-001
1292	2	-1.306303E-002	-1.718684E-002	-4.609329E-002	-6.064715E-001
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1292	4	-1.105448E-002	-1.746170E-002	-3.980675E-002	-6.161735E-001
1292	5	-1.306002E-002	-1.732434E-002	-4.608592E-002	-6.113249E-001
1292	6	-1.206036E-002	-1.718667E-002	-4.255665E-002	-6.064710E-001
1292	7	-1.105697E-002	-1.732422E-002	-3.901782E-002	-6.113210E-001
1292	8	-1.205610E-002	-1.746163E-002	-4.254241E-002	-6.161744E-001
1292	9	-1.205795E-002	-1.732424E-002	-4.255049E-002	-6.113210E-001
1293	1	-1.020961E-002	-1.915504E-002	-3.602482E-002	-6.759270E-001
1293	2	-1.021628E-002	-1.865707E-002	-3.605082E-002	-6.583529E-001
1293	3	-6.588278E-003	-1.865707E-002	-2.325082E-002	-6.583557E-001
1293	4	-6.586940E-003	-1.915517E-002	-2.324696E-002	-6.759281E-001
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1293	7	-6.589125E-003	-1.890628E-002	-2.324917E-002	-6.671481E-001
1293	8	-8.398481E-003	-1.915511E-002	-2.963750E-002	-6.759253E-001
1293	9	-8.400694E-003	-1.890628E-002	-2.964279E-002	-6.671480E-001
1294	1	-5.342709E-003	-2.022136E-002	-1.885146E-002	-7.135551E-001
1294	2	-5.342363E-003	-1.954359E-002	-1.885313E-002	-6.896365E-001
1294	3	-4.138388E-004	-1.954358E-002	-1.468552E-003	-6.896359E-001
1294	4	-4.840458E-004	-2.022150E-002	-1.428351E-003	-7.135487E-001
1294	5	-5.342914E-003	-1.988219E-002	-1.885391E-002	-7.015816E-001
1294	6	-2.878517E-003	-1.954364E-002	-1.015874E-002	-6.896364E-001
1294	7	-4.887873E-004	-1.988218E-002	-1.441605E-003	-7.015866E-001
1294	8	-2.873338E-003	-2.022142E-002	-1.013897E-002	-7.135538E-001
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1295	1	-1.304288E-002	-1.082358E-002	-4.602619E-002	-3.819360E-001
1295	2	-1.304343E-002	-1.089840E-002	-4.602565E-002	-3.845723E-001
1295	3	-1.358634E-002	-1.089842E-002	-4.794426E-002	-3.845729E-001
1295	4	-1.358749E-002	-1.082367E-002	-4.794526E-002	-3.819359E-001
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1296	1	-1.370965E-002	-1.223478E-002	-4.837603E-002	-4.317280E-001
1296	2	-1.370872E-002	-1.229627E-002	-4.837393E-002	-4.339816E-001
1296	3	-1.415564E-002	-1.229627E-002	-4.995162E-002	-4.339813E-001
1296	4	-1.415687E-002	-1.223475E-002	-4.995498E-002	-4.317272E-001
1296	5	-1.370968E-002	-1.226562E-002	-4.837831E-002	-4.328151E-001
1296	6	-1.393263E-002	-1.229639E-002	-4.916451E-002	-4.338998E-001
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1297	1	-1.420786E-002	-1.382170E-002	-5.013229E-002	-4.877238E-001
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1298	1	-1.078288E-002	-6.218574E-003	-3.805045E-002	-2.194332E-001
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1298	3	-1.111040E-002	-6.263924E-003	-3.920765E-002	-2.210360E-001
1298	4	-1.111276E-002	-6.218574E-003	-3.921231E-002	-2.194332E-001
1298	5	-1.078283E-002	-6.241222E-003	-3.805042E-002	-2.202367E-001
1298	6	-1.094722E-002	-6.263850E-003	-3.862849E-002	-2.210333E-001

1298	7	-1.111096E-002	-6.241222E-003	-3.920800E-002	-2.202367E-001
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1298	9	-1.094702E-002	-6.241222E-003	-3.862930E-002	-2.202367E-001
1299	1	-1.120394E-002	-7.267417E-003	-3.953391E-002	-2.564405E-001
1299	2	-1.120322E-002	-7.324337E-003	-3.953077E-002	-2.584508E-001
1299	3	-1.161811E-002	-7.324229E-003	-4.099708E-002	-2.584519E-001
1299	4	-1.161931E-002	-7.267417E-003	-4.100072E-002	-2.564405E-001
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1300	2	-1.173206E-002	-8.438813E-003	-4.139982E-002	-2.977778E-001
1300	3	-1.222074E-002	-8.438707E-003	-4.312254E-002	-2.977790E-001
1300	4	-1.222245E-002	-8.371483E-003	-4.312876E-002	-2.954078E-001
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1301	5	-1.235266E-002	-9.585846E-003	-4.358687E-002	-3.382529E-001
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1302	1	-9.978076E-003	-3.270333E-003	-3.521236E-002	-1.153996E-001
1302	2	-9.979725E-003	-3.291017E-003	-3.521641E-002	-1.161389E-001
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1305	6	-9.763314E-003	-4.692945E-004	-3.445207E-002	-1.656277E-002
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1307	1	-9.851328E-003	-2.327490E-003	-3.475995E-002	-8.212708E-002
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1309	1	-1.209281E-002	-1.383095E-002	-4.267331E-002	-4.880531E-001
1309	2	-1.209336E-002	-1.382099E-002	-4.267326E-002	-4.877027E-001
1309	3	-1.202124E-002	-1.382117E-002	-4.241553E-002	-4.877071E-001
1309	4	-1.202084E-002	-1.383094E-002	-4.241784E-002	-4.880559E-001
1309	5	-1.209371E-002	-1.382611E-002	-4.267368E-002	-4.878787E-001
1309	6	-1.205707E-002	-1.382112E-002	-4.254642E-002	-4.877049E-001
1309	7	-1.202068E-002	-1.382605E-002	-4.241861E-002	-4.878798E-001
1309	8	-1.205737E-002	-1.383099E-002	-4.254517E-002	-4.880562E-001
1309	9	-1.205699E-002	-1.382605E-002	-4.254671E-002	-4.878815E-001
1310	1	-1.187689E-002	-1.546462E-002	-4.191072E-002	-5.457051E-001
1310	2	-1.187838E-002	-1.536248E-002	-4.191484E-002	-5.428979E-001
1310	3	-1.113468E-002	-1.536259E-002	-3.928080E-002	-5.428965E-001
1310	4	-1.113297E-002	-1.546472E-002	-3.928478E-002	-5.457081E-001
1310	5	-1.187810E-002	-1.541359E-002	-4.191278E-002	-5.439022E-001
1310	6	-1.150593E-002	-1.536255E-002	-4.060254E-002	-5.428972E-001
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1310	8	-1.150545E-002	-1.546474E-002	-4.059730E-002	-5.457051E-001
1310	9	-1.150550E-002	-1.541359E-002	-4.059916E-002	-5.439022E-001
1311	1	-1.073559E-002	-1.711060E-002	-3.788497E-002	-6.037849E-001
1311	2	-1.074015E-002	-1.686152E-002	-3.789849E-002	-5.949982E-001
1311	3	-8.928781E-003	-1.686165E-002	-3.150586E-002	-5.949966E-001
1311	4	-8.927518E-003	-1.711049E-002	-3.150226E-002	-6.037804E-001
1311	5	-1.073850E-002	-1.698623E-002	-3.789385E-002	-5.993919E-001
1311	6	-9.833487E-003	-1.686169E-002	-3.470059E-002	-5.949972E-001
1311	7	-8.927905E-003	-1.698623E-002	-3.150343E-002	-5.993919E-001
1311	8	-9.831480E-003	-1.711060E-002	-3.469300E-002	-6.037849E-001
1311	9	-9.832733E-003	-1.698623E-002	-3.469552E-002	-5.993919E-001

1312	1	-8.227066E-003	-1.852418E-002	-2.982935E-002	-6.536583E-001
1312	2	-8.226255E-003	-1.811024E-002	-2.982998E-002	-6.390563E-001
1312	3	-5.216253E-003	-1.810971E-002	-1.840976E-002	-6.390338E-001
1312	4	-5.211866E-003	-1.852403E-002	-1.838902E-002	-6.536577E-001
1312	5	-8.227920E-003	-1.831707E-002	-2.983153E-002	-6.463548E-001
1312	6	-6.722631E-003	-1.811004E-002	-2.372320E-002	-6.390488E-001
1312	7	-5.215166E-003	-1.831666E-002	-1.840293E-002	-6.463436E-001
1312	8	-6.719799E-003	-1.852420E-002	-2.371808E-002	-6.536592E-001
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1313	1	-9.745894E-003	-7.339457E-003	-3.439232E-002	-2.589871E-001
1313	2	-9.746151E-003	-7.387506E-003	-3.439144E-002	-2.606855E-001
1313	3	-1.009602E-002	-7.387455E-003	-3.562592E-002	-2.606848E-001
1313	4	-1.009525E-002	-7.339398E-003	-3.562342E-002	-2.589852E-001
1313	5	-9.746989E-003	-7.363565E-003	-3.439504E-002	-2.598367E-001
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1313	8	-9.920981E-003	-7.339427E-003	-3.500922E-002	-2.589900E-001
1313	9	-9.921121E-003	-7.363565E-003	-3.500898E-002	-2.598367E-001
1314	1	-1.020468E-002	-8.456435E-003	-3.600769E-002	-2.984000E-001
1314	2	-1.020417E-002	-8.510644E-003	-3.600749E-002	-3.003110E-001
1314	3	-1.059915E-002	-8.510591E-003	-3.740014E-002	-3.003142E-001
1314	4	-1.059828E-002	-8.456377E-003	-3.739946E-002	-2.983981E-001
1314	5	-1.020374E-002	-8.483410E-003	-3.600705E-002	-2.993578E-001
1314	6	-1.040184E-002	-8.510492E-003	-3.670446E-002	-3.003145E-001
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1315	1	-1.072173E-002	-9.641937E-003	-3.783893E-002	-3.402361E-001
1315	2	-1.072062E-002	-9.702304E-003	-3.782928E-002	-3.423715E-001
1315	3	-1.116062E-002	-9.702455E-003	-3.938210E-002	-3.423738E-001
1315	4	-1.116114E-002	-9.642092E-003	-3.938708E-002	-3.402410E-001
1315	5	-1.072085E-002	-9.672207E-003	-3.783128E-002	-3.413027E-001
1315	6	-1.094126E-002	-9.702404E-003	-3.860638E-002	-3.423712E-001
1315	7	-1.115989E-002	-9.672207E-003	-3.938206E-002	-3.413027E-001
1315	8	-1.094168E-002	-9.642000E-003	-3.860908E-002	-3.402381E-001
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1316	1	-1.126948E-002	-1.091789E-002	-3.976779E-002	-3.852643E-001
1316	2	-1.126963E-002	-1.097753E-002	-3.976333E-002	-3.873659E-001
1316	3	-1.170211E-002	-1.097748E-002	-4.129342E-002	-3.873616E-001
1316	4	-1.170226E-002	-1.091804E-002	-4.129369E-002	-3.852655E-001
1316	5	-1.126823E-002	-1.094771E-002	-3.976198E-002	-3.863113E-001
1316	6	-1.148441E-002	-1.097750E-002	-4.052757E-002	-3.873619E-001
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1317	2	-1.178545E-002	-1.234894E-002	-4.158569E-002	-4.357606E-001
1317	3	-1.206334E-002	-1.234910E-002	-4.256835E-002	-4.357599E-001
1317	4	-1.206357E-002	-1.231076E-002	-4.256842E-002	-4.344106E-001
1317	5	-1.178566E-002	-1.232991E-002	-4.158803E-002	-4.350857E-001
1317	6	-1.192377E-002	-1.234913E-002	-4.207474E-002	-4.357605E-001
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1317	9	-1.192415E-002	-1.232991E-002	-4.207595E-002	-4.350857E-001
1318	1	-9.075117E-003	-5.254892E-003	-3.202195E-002	-1.854333E-001
1318	2	-9.075344E-003	-5.287045E-003	-3.202235E-002	-1.865631E-001
1318	3	-9.307633E-003	-5.287016E-003	-3.284172E-002	-1.865621E-001
1318	4	-9.307164E-003	-5.254815E-003	-3.284194E-002	-1.854313E-001
1318	5	-9.073749E-003	-5.270960E-003	-3.201969E-002	-1.859936E-001
1318	6	-9.191359E-003	-5.286891E-003	-3.243203E-002	-1.865627E-001

1318	7	-9.307717E-003	-5.270940E-003	-3.284264E-002	-1.859962E-001
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1318	9	-9.191131E-003	-5.270997E-003	-3.243272E-002	-1.859976E-001
1319	1	-9.369059E-003	-6.276434E-003	-3.305878E-002	-2.214783E-001
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1319	4	-9.667947E-003	-6.276565E-003	-3.411538E-002	-2.214764E-001
1319	5	-9.368856E-003	-6.297014E-003	-3.305968E-002	-2.222006E-001
1319	6	-9.517764E-003	-6.317544E-003	-3.358663E-002	-2.229279E-001
1319	7	-9.668557E-003	-6.296967E-003	-3.411788E-002	-2.222048E-001
1319	8	-9.518509E-003	-6.276544E-003	-3.358903E-002	-2.214807E-001
1319	9	-9.518434E-003	-6.296923E-003	-3.358783E-002	-2.222019E-001
1320	1	-8.464322E-003	-4.698657E-004	-2.986846E-002	-1.657941E-002
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1320	3	-8.482249E-003	-4.723168E-004	-2.993177E-002	-1.666527E-002
1320	4	-8.482347E-003	-4.697702E-004	-2.993025E-002	-1.658297E-002
1320	5	-8.464899E-003	-4.710781E-004	-2.986969E-002	-1.662236E-002
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1320	7	-8.482059E-003	-4.711050E-004	-2.993101E-002	-1.662259E-002
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1321	4	-8.545214E-003	-1.404605E-003	-3.015437E-002	-4.956745E-002
1321	5	-8.492408E-003	-1.408287E-003	-2.996626E-002	-4.969218E-002
1321	6	-8.518624E-003	-1.411989E-003	-3.005983E-002	-4.981867E-002
1321	7	-8.545489E-003	-1.408257E-003	-3.015592E-002	-4.969241E-002
1321	8	-8.519089E-003	-1.404581E-003	-3.006001E-002	-4.956286E-002
1321	9	-8.519034E-003	-1.408204E-003	-3.006018E-002	-4.969225E-002
1322	1	-8.551985E-003	-2.343818E-003	-3.017791E-002	-8.270932E-002
1322	2	-8.551631E-003	-2.356734E-003	-3.017430E-002	-8.316281E-002
1322	3	-8.645007E-003	-2.356821E-003	-3.050619E-002	-8.316521E-002
1322	4	-8.645374E-003	-2.344018E-003	-3.050669E-002	-8.271190E-002
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1323	1	-8.676124E-003	-3.296658E-003	-3.061691E-002	-1.163221E-001
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1324	1	-8.844441E-003	-4.265006E-003	-3.120943E-002	-1.504982E-001
1324	2	-8.843785E-003	-4.288372E-003	-3.120988E-002	-1.513257E-001
1324	3	-9.016118E-003	-4.288437E-003	-3.181306E-002	-1.513235E-001
1324	4	-9.015862E-003	-4.265002E-003	-3.181398E-002	-1.504971E-001
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1329	4	-9.911067E-003	-1.381667E-002	-3.497092E-002	-4.875566E-001
1329	5	-1.005098E-002	-1.380730E-002	-3.546574E-002	-4.872181E-001
1329	6	-9.980028E-003	-1.379778E-002	-3.521737E-002	-4.868819E-001
1329	7	-9.909556E-003	-1.380731E-002	-3.496874E-002	-4.872182E-001
1329	8	-9.979839E-003	-1.381684E-002	-3.521666E-002	-4.875514E-001
1329	9	-9.980410E-003	-1.380731E-002	-3.521654E-002	-4.872191E-001
1330	1	-9.759999E-003	-1.533298E-002	-3.443812E-002	-5.410580E-001
1330	2	-9.761683E-003	-1.523286E-002	-3.444462E-002	-5.374917E-001
1330	3	-9.026510E-003	-1.523215E-002	-3.185024E-002	-5.374975E-001
1330	4	-9.025092E-003	-1.533298E-002	-3.184575E-002	-5.410503E-001
1330	5	-9.760011E-003	-1.528251E-002	-3.443977E-002	-5.392758E-001
1330	6	-9.393808E-003	-1.523209E-002	-3.314605E-002	-5.374979E-001
1330	7	-9.025278E-003	-1.528250E-002	-3.184685E-002	-5.392754E-001
1330	8	-9.393159E-003	-1.533282E-002	-3.314430E-002	-5.410488E-001
1330	9	-9.393105E-003	-1.528254E-002	-3.314587E-002	-5.392758E-001
1331	1	-8.692634E-003	-1.679399E-002	-3.067164E-002	-5.926132E-001
1331	2	-8.691391E-003	-1.657938E-002	-3.067152E-002	-5.850381E-001
1331	3	-7.138968E-003	-1.657925E-002	-2.516064E-002	-5.850326E-001
1331	4	-7.127662E-003	-1.679412E-002	-2.514941E-002	-5.926164E-001
1331	5	-8.692834E-003	-1.668666E-002	-3.067297E-002	-5.888211E-001
1331	6	-7.918771E-003	-1.657921E-002	-2.791692E-002	-5.850335E-001
1331	7	-7.129801E-003	-1.668649E-002	-2.515699E-002	-5.888213E-001
1331	8	-7.909809E-003	-1.679416E-002	-2.791077E-002	-5.926110E-001
1331	9	-7.910075E-003	-1.668663E-002	-2.791304E-002	-5.888212E-001

1332	1	-7.957743E-003	-6.327981E-003	-2.888037E-002	-2.232927E-001
1332	2	-7.957989E-003	-6.360634E-003	-2.888049E-002	-2.244432E-001
1332	3	-8.194913E-003	-6.360507E-003	-2.891796E-002	-2.244452E-001
1332	4	-8.194674E-003	-6.328002E-003	-2.891700E-002	-2.232920E-001
1332	5	-7.957746E-003	-6.344166E-003	-2.888122E-002	-2.238697E-001
1332	6	-8.076688E-003	-6.360407E-003	-2.858029E-002	-2.244410E-001
1332	7	-8.193959E-003	-6.344226E-003	-2.891414E-002	-2.238699E-001
1332	8	-8.076688E-003	-6.327992E-003	-2.850029E-002	-2.232947E-001
1332	9	-8.076688E-003	-6.344226E-003	-2.850029E-002	-2.238703E-001
1333	1	-8.271669E-003	-7.400353E-003	-2.918931E-002	-2.611366E-001
1333	2	-8.272018E-003	-7.440850E-003	-2.918870E-002	-2.625640E-001
1333	3	-8.566328E-003	-7.440789E-003	-3.022586E-002	-2.625660E-001
1333	4	-8.565951E-003	-7.400444E-003	-3.022732E-002	-2.611385E-001
1333	5	-8.272662E-003	-7.420681E-003	-2.919230E-002	-2.618541E-001
1333	6	-8.418804E-003	-7.440885E-003	-2.970790E-002	-2.625670E-001
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1333	9	-8.418891E-003	-7.420686E-003	-2.970816E-002	-2.618533E-001
1334	1	-8.641931E-003	-8.525413E-003	-3.049661E-002	-3.008330E-001
1334	2	-8.642048E-003	-8.572877E-003	-3.049441E-002	-3.025098E-001
1334	3	-8.986256E-003	-8.572944E-003	-3.171108E-002	-3.025150E-001
1334	4	-8.987432E-003	-8.525389E-003	-3.171302E-002	-3.008352E-001
1334	5	-8.641464E-003	-8.549117E-003	-3.049521E-002	-3.016725E-001
1334	6	-8.813841E-003	-8.572710E-003	-3.110127E-002	-3.025131E-001
1334	7	-8.987560E-003	-8.549098E-003	-3.171540E-002	-3.016753E-001
1334	8	-8.814461E-003	-8.525447E-003	-3.110385E-002	-3.008341E-001
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1335	1	-9.071163E-003	-9.718220E-003	-3.200774E-002	-3.429295E-001
1335	2	-9.071067E-003	-9.766891E-003	-3.200674E-002	-3.446502E-001
1335	3	-9.424319E-003	-9.767021E-003	-3.325558E-002	-3.446518E-001
1335	4	-9.425755E-003	-9.718348E-003	-3.325918E-002	-3.429345E-001
1335	5	-9.069744E-003	-9.742623E-003	-3.200336E-002	-3.437803E-001
1335	6	-9.247445E-003	-9.766857E-003	-3.263089E-002	-3.446478E-001
1335	7	-9.425976E-003	-9.742599E-003	-3.325923E-002	-3.437897E-001
1335	8	-9.247542E-003	-9.718330E-003	-3.263273E-002	-3.429297E-001
1335	9	-9.247730E-003	-9.742571E-003	-3.263158E-002	-3.437906E-001
1336	1	-7.184438E-003	-4.727094E-004	-2.535218E-002	-1.668438E-002
1336	2	-7.185338E-003	-4.744338E-004	-2.535325E-002	-1.674384E-002
1336	3	-7.196632E-003	-4.745311E-004	-2.539436E-002	-1.674314E-002
1336	4	-7.196360E-003	-4.728929E-004	-2.539448E-002	-1.668924E-002
1336	5	-7.184147E-003	-4.737600E-004	-2.535245E-002	-1.671604E-002
1336	6	-7.190228E-003	-4.744228E-004	-2.537362E-002	-1.674349E-002
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1336	8	-7.190598E-003	-4.728766E-004	-2.537338E-002	-1.668490E-002
1336	9	-7.190236E-003	-4.737600E-004	-2.537349E-002	-1.671604E-002
1337	1	-7.202622E-003	-1.413617E-003	-2.541781E-002	-4.988182E-002
1337	2	-7.203197E-003	-1.418552E-003	-2.541816E-002	-5.005696E-002
1337	3	-7.239868E-003	-1.418739E-003	-2.554816E-002	-5.005912E-002
1337	4	-7.240793E-003	-1.413476E-003	-2.554985E-002	-4.988291E-002
1337	5	-7.203416E-003	-1.416144E-003	-2.541894E-002	-4.997018E-002
1337	6	-7.222108E-003	-1.418542E-003	-2.548283E-002	-5.005661E-002
1337	7	-7.239392E-003	-1.416144E-003	-2.554625E-002	-4.997018E-002
1337	8	-7.222108E-003	-1.413665E-003	-2.548283E-002	-4.988236E-002
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1338	1	-7.256907E-003	-2.360268E-003	-2.560888E-002	-8.328483E-002
1338	2	-7.256152E-003	-2.371221E-003	-2.560495E-002	-8.367379E-002
1338	3	-7.337535E-003	-2.371198E-003	-2.589031E-002	-8.367309E-002
1338	4	-7.336880E-003	-2.360161E-003	-2.588942E-002	-8.328701E-002
1338	5	-7.255848E-003	-2.365771E-003	-2.560397E-002	-8.347891E-002
1338	6	-7.296803E-003	-2.371210E-003	-2.574816E-002	-8.367344E-002

1338	7	-7.337795E-003	-2.365771E-003	-2.589000E-002	-8.347891E-002
1338	8	-7.296953E-003	-2.360230E-003	-2.574070E-002	-8.328261E-002
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1339	1	-7.351166E-003	-3.318595E-003	-2.594233E-002	-1.171020E-001
1339	2	-7.351633E-003	-3.335202E-003	-2.594126E-002	-1.176903E-001
1339	3	-7.472651E-003	-3.335269E-003	-2.636048E-002	-1.176924E-001
1339	4	-7.472850E-003	-3.318609E-003	-2.636980E-002	-1.171005E-001
1339	5	-7.350355E-003	-3.326908E-003	-2.593887E-002	-1.173944E-001
1339	6	-7.411104E-003	-3.335191E-003	-2.615361E-002	-1.176899E-001
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1339	8	-7.411994E-003	-3.318646E-003	-2.615428E-002	-1.171027E-001
1339	9	-7.412202E-003	-3.326908E-003	-2.615395E-002	-1.173944E-001
1340	1	-7.499464E-003	-4.295086E-003	-2.646074E-002	-1.515584E-001
1340	2	-7.498328E-003	-4.317153E-003	-2.646071E-002	-1.523404E-001
1340	3	-7.660232E-003	-4.317220E-003	-2.702910E-002	-1.523420E-001
1340	4	-7.660828E-003	-4.294954E-003	-2.702957E-002	-1.515598E-001
1340	5	-7.498419E-003	-4.306106E-003	-2.645977E-002	-1.519506E-001
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1341	1	-7.696759E-003	-5.295611E-003	-2.715897E-002	-1.868674E-001
1341	2	-7.697168E-003	-5.322744E-003	-2.715801E-002	-1.878247E-001
1341	3	-7.895033E-003	-5.322722E-003	-2.785742E-002	-1.878240E-001
1341	4	-7.894653E-003	-5.295604E-003	-2.785820E-002	-1.868661E-001
1341	5	-7.696866E-003	-5.309150E-003	-2.716094E-002	-1.873477E-001
1341	6	-7.795148E-003	-5.322733E-003	-2.750815E-002	-1.878244E-001
1341	7	-7.895441E-003	-5.309150E-003	-2.786116E-002	-1.873477E-001
1341	8	-7.795637E-003	-5.295548E-003	-2.750886E-002	-1.868653E-001
1341	9	-7.795590E-003	-5.309150E-003	-2.750905E-002	-1.873477E-001
1342	1	-7.792168E-003	-1.520440E-002	-2.749564E-002	-5.365161E-001
1342	2	-7.792032E-003	-1.511487E-002	-2.749660E-002	-5.333551E-001
1342	3	-7.141902E-003	-1.511472E-002	-2.519948E-002	-5.333555E-001
1342	4	-7.139198E-003	-1.520435E-002	-2.519218E-002	-5.365130E-001
1342	5	-7.792112E-003	-1.515955E-002	-2.749567E-002	-5.349377E-001
1342	6	-7.466931E-003	-1.511469E-002	-2.634745E-002	-5.333579E-001
1342	7	-7.139692E-003	-1.515955E-002	-2.519316E-002	-5.349377E-001
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1343	1	-6.839351E-003	-1.652279E-002	-2.413498E-002	-5.830384E-001
1343	2	-6.842517E-003	-1.634809E-002	-2.414304E-002	-5.768713E-001
1343	3	-5.569525E-003	-1.634796E-002	-1.965316E-002	-5.768689E-001
1343	4	-5.567557E-003	-1.652286E-002	-1.964436E-002	-5.830429E-001
1343	5	-6.840766E-003	-1.643530E-002	-2.413870E-002	-5.799556E-001
1343	6	-6.205731E-003	-1.634791E-002	-2.189809E-002	-5.768698E-001
1343	7	-5.567201E-003	-1.643530E-002	-1.964781E-002	-5.799556E-001
1343	8	-6.202836E-003	-1.652268E-002	-2.188795E-002	-5.830372E-001
1343	9	-6.204203E-003	-1.643530E-002	-2.189207E-002	-5.799556E-001
1344	1	-5.077676E-003	-1.757967E-002	-1.791800E-002	-6.203309E-001
1344	2	-5.081646E-003	-1.738908E-002	-1.793397E-002	-6.107859E-001
1344	3	-3.111055E-003	-1.738913E-002	-1.097928E-002	-6.107863E-001
1344	4	-3.106410E-003	-1.757942E-002	-1.096440E-002	-6.203298E-001
1344	5	-5.079710E-003	-1.744429E-002	-1.792713E-002	-6.155567E-001
1344	6	-4.096064E-003	-1.738897E-002	-1.445697E-002	-6.107871E-001
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1344	8	-4.093089E-003	-1.757943E-002	-1.443993E-002	-6.203261E-001
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1345	1	-2.494848E-003	-1.815426E-002	-8.801444E-003	-6.406092E-001
1345	2	-2.493293E-003	-1.785474E-002	-8.817348E-003	-6.300426E-001
1345	3	-3.174674E-004	-1.785481E-002	-1.118921E-003	-6.300436E-001

1345	4	-3.170576E-004	-1.815414E-002	-1.119196E-003	-6.406080E-001
1345	5	-2.495516E-003	-1.800463E-002	-8.808029E-003	-6.353307E-001
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1346	1	-7.425478E-003	-9.779336E-003	-2.620335E-002	-3.450759E-001
1346	2	-7.424427E-003	-9.817172E-003	-2.620151E-002	-3.464175E-001
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1347	1	-7.756423E-003	-1.104479E-002	-2.737070E-002	-3.897398E-001
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1347	4	-8.000427E-003	-1.104489E-002	-2.823282E-002	-3.897421E-001
1347	5	-7.756809E-003	-1.106166E-002	-2.737286E-002	-3.903333E-001
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1349	5	-8.111951E-003	-1.377744E-002	-2.862524E-002	-4.861654E-001
1349	6	-8.014064E-003	-1.376381E-002	-2.827931E-002	-4.856865E-001
1349	7	-7.915433E-003	-1.377751E-002	-2.793203E-002	-4.861647E-001
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1349	9	-8.014064E-003	-1.377742E-002	-2.827931E-002	-4.861659E-001
1350	1	-5.894972E-003	-4.748862E-004	-2.880258E-002	-1.675729E-002
1350	2	-5.894778E-003	-4.763134E-004	-2.879993E-002	-1.680288E-002
1350	3	-5.903218E-003	-4.763225E-004	-2.883197E-002	-1.680315E-002
1350	4	-5.902815E-003	-4.748881E-004	-2.883044E-002	-1.675634E-002
1350	5	-5.894548E-003	-4.756236E-004	-2.880144E-002	-1.678264E-002
1350	6	-5.898993E-003	-4.761411E-004	-2.881686E-002	-1.680298E-002
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1350	8	-5.899225E-003	-4.749905E-004	-2.881649E-002	-1.675682E-002
1350	9	-5.899050E-003	-4.755863E-004	-2.881687E-002	-1.678246E-002
1351	1	-5.897918E-003	-1.420342E-003	-2.881199E-002	-5.011688E-002
1351	2	-5.897820E-003	-1.426830E-003	-2.881243E-002	-5.035055E-002
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1351	6	-5.921357E-003	-1.426867E-003	-2.889305E-002	-5.035027E-002
1351	7	-5.944795E-003	-1.423528E-003	-2.897626E-002	-5.023246E-002
1351	8	-5.920837E-003	-1.420360E-003	-2.889448E-002	-5.011643E-002
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1352	1	-5.946895E-003	-2.374155E-003	-2.098473E-002	-8.377570E-002
1352	2	-5.946374E-003	-2.383184E-003	-2.098221E-002	-8.409321E-002
1352	3	-6.012647E-003	-2.383116E-003	-2.121484E-002	-8.409319E-002
1352	4	-6.012140E-003	-2.374192E-003	-2.121515E-002	-8.377871E-002
1352	5	-5.945903E-003	-2.378692E-003	-2.098343E-002	-8.393775E-002
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1354	2	-6.153255E-003	-4.339492E-003	-2.171237E-002	-1.531302E-001
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1370	2	-5.510295E-003	-8.659188E-003	-1.944337E-002	-3.055546E-001
1370	3	-5.724652E-003	-8.659201E-003	-2.019883E-002	-3.055554E-001
1370	4	-5.724797E-003	-8.629890E-003	-2.020188E-002	-3.045199E-001
1370	5	-5.510981E-003	-8.644569E-003	-1.944636E-002	-3.050301E-001
1370	6	-5.617065E-003	-8.659233E-003	-1.982163E-002	-3.055602E-001
1370	7	-5.725440E-003	-8.644569E-003	-2.020371E-002	-3.050301E-001
1370	8	-5.618248E-003	-8.629847E-003	-1.982277E-002	-3.045270E-001
1370	9	-5.617599E-003	-8.644569E-003	-1.982267E-002	-3.050301E-001
1371	1	-5.767968E-003	-9.826958E-003	-2.035575E-002	-3.467600E-001
1371	2	-5.768530E-003	-9.856411E-003	-2.035393E-002	-3.478066E-001
1371	3	-5.983606E-003	-9.856544E-003	-2.111225E-002	-3.478070E-001
1371	4	-5.984791E-003	-9.826915E-003	-2.111686E-002	-3.467607E-001
1371	5	-5.767818E-003	-9.841671E-003	-2.035192E-002	-3.472859E-001
1371	6	-5.875710E-003	-9.856407E-003	-2.073491E-002	-3.478052E-001
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1371	8	-5.876799E-003	-9.826982E-003	-2.073634E-002	-3.467675E-001
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1372	1	-6.019139E-003	-1.108653E-002	-2.123967E-002	-3.912113E-001
1372	2	-6.019512E-003	-1.110869E-002	-2.123990E-002	-3.919903E-001
1372	3	-6.179752E-003	-1.110859E-002	-2.180663E-002	-3.919907E-001
1372	4	-6.180266E-003	-1.108653E-002	-2.181046E-002	-3.912859E-001
1372	5	-6.019279E-003	-1.109758E-002	-2.124010E-002	-3.916013E-001
1372	6	-6.099432E-003	-1.110862E-002	-2.152422E-002	-3.919922E-001
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1373	1	-6.210353E-003	-1.240365E-002	-2.191591E-002	-4.376857E-001
1373	2	-6.209960E-003	-1.240994E-002	-2.191475E-002	-4.379143E-001
1373	3	-6.257475E-003	-1.240986E-002	-2.208022E-002	-4.379118E-001
1373	4	-6.257698E-003	-1.240364E-002	-2.207987E-002	-4.376878E-001
1373	5	-6.211580E-003	-1.240681E-002	-2.191852E-002	-4.378000E-001
1373	6	-6.234300E-003	-1.240990E-002	-2.199748E-002	-4.379089E-001
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1374	1	-4.586393E-003	-4.765053E-004	-1.618497E-002	-1.681441E-002
1374	2	-4.586156E-003	-4.778352E-004	-1.618549E-002	-1.686096E-002
1374	3	-4.595316E-003	-4.777482E-004	-1.621689E-002	-1.686028E-002
1374	4	-4.596075E-003	-4.766138E-004	-1.621722E-002	-1.681583E-002
1374	5	-4.585753E-003	-4.771934E-004	-1.618255E-002	-1.683709E-002
1374	6	-4.590753E-003	-4.777843E-004	-1.619995E-002	-1.686038E-002
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1375	1	-4.601055E-003	-1.428174E-003	-1.623513E-002	-5.040070E-002
1375	2	-4.600861E-003	-1.431770E-003	-1.623422E-002	-5.052044E-002
1375	3	-4.624951E-003	-1.431624E-003	-1.631843E-002	-5.051576E-002
1375	4	-4.624897E-003	-1.428293E-003	-1.631922E-002	-5.040073E-002
1375	5	-4.600866E-003	-1.429987E-003	-1.623116E-002	-5.046040E-002
1375	6	-4.612115E-003	-1.431558E-003	-1.627531E-002	-5.051535E-002
1375	7	-4.623269E-003	-1.429994E-003	-1.631551E-002	-5.045936E-002
1375	8	-4.612115E-003	-1.428293E-003	-1.627531E-002	-5.039800E-002
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1376	1	-1.240427E-003	-1.745650E-002	-4.378000E-003	-6.159004E-001
1376	2	-1.243710E-003	-1.727502E-002	-4.388305E-003	-6.095843E-001
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1376	5	-1.242823E-003	-1.736587E-002	-4.386490E-003	-6.127909E-001
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1377	1	-3.316562E-003	-2.394433E-003	-1.170190E-002	-8.449066E-002
1377	2	-3.315798E-003	-2.399110E-003	-1.170268E-002	-8.465863E-002
1377	3	-3.350845E-003	-2.399067E-003	-1.182248E-002	-8.465805E-002
1377	4	-3.349938E-003	-2.394405E-003	-1.182167E-002	-8.449177E-002
1377	5	-3.315852E-003	-2.396702E-003	-1.169907E-002	-8.457364E-002
1377	6	-3.332909E-003	-2.399167E-003	-1.176803E-002	-8.465709E-002
1377	7	-3.349915E-003	-2.396702E-003	-1.182067E-002	-8.457364E-002
1377	8	-3.332909E-003	-2.394419E-003	-1.176803E-002	-8.449122E-002
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1378	1	-3.362474E-003	-3.369299E-003	-1.186412E-002	-1.188890E-001
1378	2	-3.362028E-003	-3.375967E-003	-1.186530E-002	-1.191297E-001
1378	3	-3.410962E-003	-3.375931E-003	-1.203655E-002	-1.191296E-001
1378	4	-3.410219E-003	-3.369177E-003	-1.203548E-002	-1.188909E-001
1378	5	-3.361474E-003	-3.372614E-003	-1.186262E-002	-1.190898E-001
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1378	7	-3.489761E-003	-3.372614E-003	-1.203365E-002	-1.190898E-001
1378	8	-3.386243E-003	-3.369194E-003	-1.194903E-002	-1.188904E-001
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1379	1	-3.429232E-003	-4.361404E-003	-1.218128E-002	-1.538995E-001
1379	2	-3.428377E-003	-4.371535E-003	-1.209804E-002	-1.542594E-001
1379	3	-3.503563E-003	-4.371683E-003	-1.236288E-002	-1.542622E-001
1379	4	-3.503044E-003	-4.361602E-003	-1.236048E-002	-1.539878E-001
1379	5	-3.429246E-003	-4.366545E-003	-1.210047E-002	-1.540839E-001
1379	6	-3.465253E-003	-4.371563E-003	-1.222952E-002	-1.542646E-001
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1379	8	-3.465804E-003	-4.361502E-003	-1.222943E-002	-1.538998E-001
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1380	1	-3.512827E-003	-5.379350E-003	-1.239674E-002	-1.898232E-001
1380	2	-3.513176E-003	-5.393808E-003	-1.239599E-002	-1.903293E-001
1380	3	-3.617886E-003	-5.393761E-003	-1.276689E-002	-1.903297E-001
1380	4	-3.618678E-003	-5.379331E-003	-1.276841E-002	-1.898207E-001
1380	5	-3.513404E-003	-5.386536E-003	-1.239698E-002	-1.900746E-001
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1382	4	-3.907525E-003	-7.524745E-003	-1.378798E-002	-2.655231E-001
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1390	2	-2.628689E-003	-1.684612E-002	-9.275512E-003	-5.944539E-001
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1390	4	-1.590997E-003	-1.698833E-002	-5.616127E-003	-5.994636E-001
1390	5	-2.627811E-003	-1.691722E-002	-9.271924E-003	-5.969624E-001
1390	6	-2.110564E-003	-1.684635E-002	-7.449809E-003	-5.944547E-001
1390	7	-1.593085E-003	-1.691722E-002	-5.622109E-003	-5.969624E-001
1390	8	-2.109409E-003	-1.698843E-002	-7.442513E-003	-5.994701E-001
1390	9	-2.109344E-003	-1.691722E-002	-7.445208E-003	-5.969624E-001
1391	1	-3.289823E-003	-1.432110E-002	-1.160795E-002	-5.053867E-002
1391	2	-3.290104E-003	-1.434857E-002	-1.160918E-002	-5.063164E-002
1391	3	-3.308769E-003	-1.434779E-002	-1.167462E-002	-5.063240E-002
1391	4	-3.308015E-003	-1.432170E-002	-1.167542E-002	-5.053760E-002
1391	5	-3.289278E-003	-1.433571E-002	-1.160589E-002	-5.058476E-002
1391	6	-3.298491E-003	-1.434935E-002	-1.164116E-002	-5.063172E-002
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1391	8	-3.298491E-003	-1.432243E-002	-1.164116E-002	-5.054804E-002
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1392	1	-3.283324E-003	-4.781132E-004	-1.158849E-002	-1.686848E-002
1392	2	-3.283617E-003	-4.784066E-004	-1.158663E-002	-1.688085E-002
1392	3	-3.285883E-003	-4.782646E-004	-1.159551E-002	-1.687972E-002
1392	4	-3.286956E-003	-4.779412E-004	-1.159413E-002	-1.686881E-002
1392	5	-3.282394E-003	-4.781893E-004	-1.158404E-002	-1.687164E-002
1392	6	-3.284809E-003	-4.784434E-004	-1.159106E-002	-1.688078E-002
1392	7	-3.285507E-003	-4.781789E-004	-1.159437E-002	-1.687268E-002
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1392	9	-3.284663E-003	-4.781841E-004	-1.158995E-002	-1.687237E-002
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1393	2	-2.468192E-003	-9.899428E-003	-8.711682E-003	-3.493221E-001
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1393	4	-2.565574E-003	-9.886201E-003	-9.052467E-003	-3.488533E-001
1393	5	-2.470840E-003	-9.892912E-003	-8.714718E-003	-3.490926E-001
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1393	9	-2.517035E-003	-9.892892E-003	-8.882210E-003	-3.490887E-001
1394	1	-2.569858E-003	-1.113266E-002	-9.066838E-003	-3.928343E-001
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1394	3	-2.633612E-003	-1.114144E-002	-9.293440E-003	-3.931486E-001
1394	4	-2.633982E-003	-1.113260E-002	-9.292457E-003	-3.928341E-001
1394	5	-2.569363E-003	-1.113703E-002	-9.064587E-003	-3.929988E-001
1394	6	-2.600830E-003	-1.114145E-002	-9.178758E-003	-3.931476E-001
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1394	8	-2.601083E-003	-1.113257E-002	-9.179171E-003	-3.928361E-001
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1395	1	-2.641915E-003	-1.241701E-002	-9.323389E-003	-4.381602E-001
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1398	3	-1.795377E-003	-1.595021E-002	-6.015173E-003	-5.628381E-001
1398	4	-1.793807E-003	-1.600859E-002	-6.011837E-003	-5.649035E-001
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1399	1	-1.541197E-003	-1.681359E-002	-5.439211E-003	-5.932989E-001
1399	2	-1.542784E-003	-1.673068E-002	-5.444675E-003	-5.903750E-001
1399	3	-9.403217E-004	-1.673067E-002	-3.315274E-003	-5.903743E-001
1399	4	-9.388327E-004	-1.681354E-002	-3.312241E-003	-5.933023E-001
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1410	3	-8.175857E-004	-8.709474E-003	-2.886000E-003	-3.073314E-001
1410	4	-8.177469E-004	-8.705746E-003	-2.885735E-003	-3.072019E-001
1410	5	-7.982178E-004	-8.707632E-003	-2.789413E-003	-3.072651E-001
1410	6	-8.047124E-004	-8.709478E-003	-2.838880E-003	-3.073327E-001
1410	7	-8.175415E-004	-8.707671E-003	-2.884914E-003	-3.072678E-001
1410	8	-8.047124E-004	-8.705720E-003	-2.838880E-003	-3.071979E-001
1410	9	-8.047124E-004	-8.707663E-003	-2.838880E-003	-3.072661E-001
1411	1	-8.256437E-004	-9.901750E-003	-2.913171E-003	-3.494008E-001
1411	2	-8.255365E-004	-9.905060E-003	-2.913986E-003	-3.495210E-001
1411	3	-8.487166E-004	-9.905029E-003	-2.998167E-003	-3.495213E-001
1411	4	-8.498761E-004	-9.901816E-003	-2.998853E-003	-3.494051E-001
1411	5	-8.250835E-004	-9.903569E-003	-2.910121E-003	-3.494632E-001
1411	6	-8.376440E-004	-9.905173E-003	-2.955107E-003	-3.495232E-001
1411	7	-8.497732E-004	-9.903398E-003	-2.997557E-003	-3.494633E-001
1411	8	-8.376440E-004	-9.901917E-003	-2.955107E-003	-3.494074E-001
1411	9	-8.376440E-004	-9.903484E-003	-2.955107E-003	-3.494633E-001

1412	1	-8.568898E-004	-1.114315E-002	-3.022683E-003	-3.932108E-001
1412	2	-8.564185E-004	-1.114677E-002	-3.022999E-003	-3.933363E-001
1412	3	-8.835499E-004	-1.114675E-002	-3.115676E-003	-3.933361E-001
1412	4	-8.826136E-004	-1.114323E-002	-3.113868E-003	-3.932105E-001
1412	5	-8.562277E-004	-1.114501E-002	-3.022675E-003	-3.932752E-001
1412	6	-8.697627E-004	-1.114665E-002	-3.067648E-003	-3.933370E-001
1412	7	-8.827731E-004	-1.114505E-002	-3.115870E-003	-3.932746E-001
1412	8	-8.694919E-004	-1.114319E-002	-3.068480E-003	-3.932092E-001
1412	9	-8.695385E-004	-1.114502E-002	-3.068400E-003	-3.932749E-001
1413	1	-8.687392E-004	-1.241695E-002	-3.065401E-003	-4.381585E-001
1413	2	-8.685747E-004	-1.241955E-002	-3.064625E-003	-4.382482E-001
1413	3	-8.864596E-004	-1.241954E-002	-3.130170E-003	-4.382485E-001
1413	4	-8.866319E-004	-1.241690E-002	-3.128825E-003	-4.381578E-001
1413	5	-8.695043E-004	-1.241830E-002	-3.067517E-003	-4.382023E-001
1413	6	-8.785078E-004	-1.241935E-002	-3.098238E-003	-4.382429E-001
1413	7	-8.865457E-004	-1.241814E-002	-3.129497E-003	-4.382028E-001
1413	8	-8.783224E-004	-1.241711E-002	-3.098453E-003	-4.381635E-001
1413	9	-8.779896E-004	-1.241818E-002	-3.098552E-003	-4.382016E-001
1414	1	-8.674614E-004	-1.368884E-002	-3.060537E-003	-4.830408E-001
1414	2	-8.681836E-004	-1.368625E-002	-3.062193E-003	-4.829453E-001
1414	3	-8.481378E-004	-1.368624E-002	-2.992834E-003	-4.829450E-001
1414	4	-8.483572E-004	-1.368889E-002	-2.992400E-003	-4.830397E-001
1414	5	-8.670208E-004	-1.368748E-002	-3.061057E-003	-4.829929E-001
1414	6	-8.574808E-004	-1.368604E-002	-3.026600E-003	-4.829434E-001
1414	7	-8.488636E-004	-1.368753E-002	-2.996035E-003	-4.829925E-001
1414	8	-8.579119E-004	-1.368877E-002	-3.026541E-003	-4.830387E-001
1414	9	-8.577055E-004	-1.368753E-002	-3.025815E-003	-4.829918E-001
1415	1	-8.155977E-004	-1.489369E-002	-2.877316E-003	-5.255551E-001
1415	2	-8.157276E-004	-1.488406E-002	-2.877305E-003	-5.252129E-001
1415	3	-7.457579E-004	-1.488417E-002	-2.631300E-003	-5.252126E-001
1415	4	-7.448763E-004	-1.489373E-002	-2.629673E-003	-5.255535E-001
1415	5	-8.149114E-004	-1.488883E-002	-2.877000E-003	-5.253838E-001
1415	6	-7.805078E-004	-1.488385E-002	-2.754800E-003	-5.252113E-001
1415	7	-7.440756E-004	-1.488885E-002	-2.626096E-003	-5.253844E-001
1415	8	-7.808551E-004	-1.489383E-002	-2.754273E-003	-5.255597E-001
1415	9	-7.807287E-004	-1.488886E-002	-2.754725E-003	-5.253841E-001
1416	1	-7.807832E-004	-1.593919E-002	-2.470155E-003	-5.624428E-001
1416	2	-7.805259E-004	-1.592131E-002	-2.472149E-003	-5.618205E-001
1416	3	-5.711566E-004	-1.592139E-002	-2.014166E-003	-5.618203E-001
1416	4	-5.709394E-004	-1.593920E-002	-2.012707E-003	-5.624475E-001
1416	5	-6.992437E-004	-1.593022E-002	-2.468336E-003	-5.621346E-001
1416	6	-6.358392E-004	-1.592139E-002	-2.243671E-003	-5.618178E-001
1416	7	-5.704815E-004	-1.593039E-002	-2.013437E-003	-5.621341E-001
1416	8	-6.352284E-004	-1.593908E-002	-2.242070E-003	-5.624433E-001
1416	9	-6.358171E-004	-1.593036E-002	-2.244003E-003	-5.621343E-001
1417	1	-5.881872E-004	-1.671421E-002	-1.793710E-003	-5.897959E-001
1417	2	-5.830666E-004	-1.668399E-002	-1.797648E-003	-5.887281E-001
1417	3	-2.885586E-004	-1.668398E-002	-1.019299E-003	-5.887279E-001
1417	4	-2.889631E-004	-1.671421E-002	-1.021425E-003	-5.898002E-001
1417	5	-5.895322E-004	-1.669914E-002	-1.796603E-003	-5.892636E-001
1417	6	-3.989939E-004	-1.668398E-002	-1.406646E-003	-5.887294E-001
1417	7	-2.883684E-004	-1.669917E-002	-1.019138E-003	-5.892640E-001
1417	8	-3.986869E-004	-1.671420E-002	-1.406634E-003	-5.897923E-001
1417	9	-3.988429E-004	-1.669915E-002	-1.408051E-003	-5.892647E-001
1418	1	-2.284157E-004	-1.709233E-002	-0.851461E-004	-6.031381E-001
1418	2	-2.279738E-004	-1.706507E-002	-0.842548E-004	-6.021738E-001
1418	3	-2.810732E-005	-1.706504E-002	-1.022443E-004	-6.021733E-001
1418	4	-2.906844E-005	-1.709221E-002	-1.016334E-004	-6.031349E-001
1418	5	-2.292478E-004	-1.707876E-002	-0.875219E-004	-6.026580E-001
1418	6	-1.281556E-004	-1.706484E-002	-4.537515E-004	-6.021721E-001

1418	7	-2.906471E-005	-1.707858E-002	-1.028925E-004	-6.026535E-001
1418	8	-1.281556E-004	-1.709233E-002	-4.537515E-004	-6.031387E-001
1418	9	-1.281556E-004	-1.707864E-002	-4.537515E-004	-6.026567E-001
1419	1	-6.579288E-004	-4.794973E-004	-2.322341E-003	-1.691819E-002
1419	2	-6.582382E-004	-4.795107E-004	-2.322472E-003	-1.692104E-002
1419	3	-6.575482E-004	-4.795197E-004	-2.322422E-003	-1.692163E-002
1419	4	-6.586997E-004	-4.795738E-004	-2.322314E-003	-1.692165E-002
1419	5	-6.581414E-004	-4.795341E-004	-2.322701E-003	-1.692244E-002
1419	6	-6.585462E-004	-4.794387E-004	-2.322767E-003	-1.692014E-002
1419	7	-6.584749E-004	-4.795589E-004	-2.321414E-003	-1.692194E-002
1419	8	-6.585462E-004	-4.796233E-004	-2.322767E-003	-1.691942E-002
1419	9	-6.585462E-004	-4.795386E-004	-2.322767E-003	-1.692219E-002
1420	1	-6.581924E-004	-1.439273E-003	-2.323952E-003	-5.078851E-002
1420	2	-6.581327E-004	-1.439956E-003	-2.323964E-003	-5.080659E-002
1420	3	-6.625209E-004	-1.439836E-003	-2.337454E-003	-5.080686E-002
1420	4	-6.610940E-004	-1.439348E-003	-2.337757E-003	-5.079193E-002
1420	5	-6.583272E-004	-1.439666E-003	-2.322709E-003	-5.080095E-002
1420	6	-6.606941E-004	-1.439818E-003	-2.331858E-003	-5.081156E-002
1420	7	-6.623204E-004	-1.439688E-003	-2.336652E-003	-5.080036E-002
1420	8	-6.606941E-004	-1.439430E-003	-2.331858E-003	-5.078972E-002
1420	9	-6.606941E-004	-1.439669E-003	-2.331858E-003	-5.080066E-002
1421	1	-6.636489E-004	-2.405696E-003	-2.342765E-003	-8.489174E-002
1421	2	-6.635685E-004	-2.406546E-003	-2.342919E-003	-8.491626E-002
1421	3	-6.685974E-004	-2.406439E-003	-2.358421E-003	-8.491695E-002
1421	4	-6.685974E-004	-2.405770E-003	-2.358421E-003	-8.489127E-002
1421	5	-6.641255E-004	-2.406116E-003	-2.342184E-003	-8.490380E-002
1421	6	-6.664423E-004	-2.406345E-003	-2.351427E-003	-8.491493E-002
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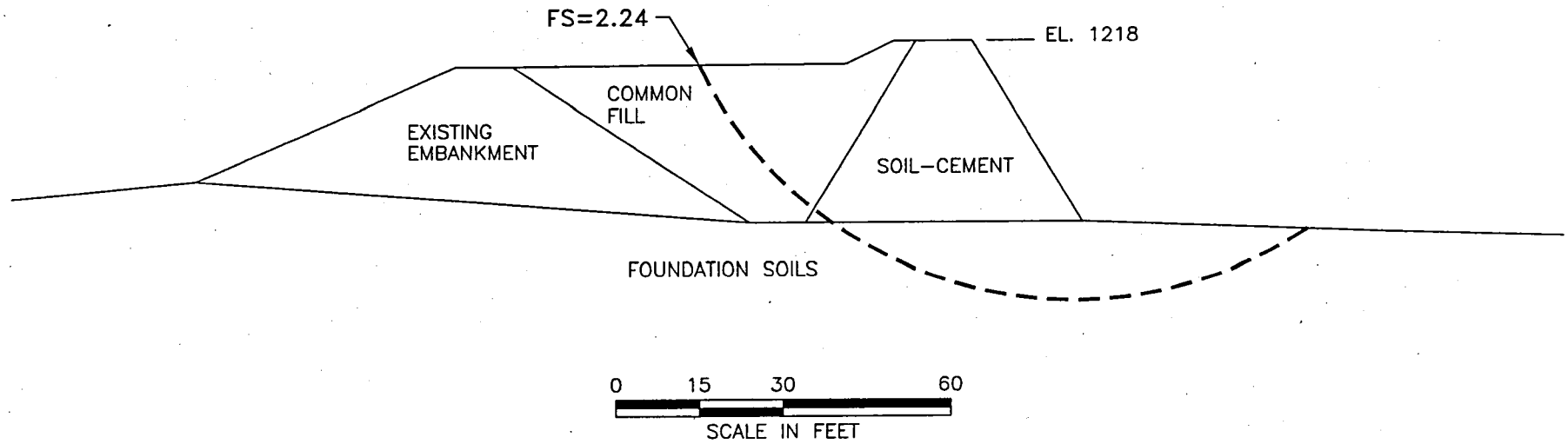
1422	1	-6.725236E-004	-3.383502E-003	-2.371695E-003	-1.193935E-001
1422	2	-6.725585E-004	-3.385704E-003	-2.372393E-003	-1.194726E-001
1422	3	-6.869302E-004	-3.385674E-003	-2.425825E-003	-1.194719E-001
1422	4	-6.882987E-004	-3.383573E-003	-2.429049E-003	-1.193929E-001
1422	5	-6.717428E-004	-3.384663E-003	-2.368856E-003	-1.194347E-001
1422	6	-6.804143E-004	-3.385680E-003	-2.399458E-003	-1.194707E-001
1422	7	-6.874364E-004	-3.384452E-003	-2.425313E-003	-1.194318E-001
1422	8	-6.798800E-004	-3.383538E-003	-2.399575E-003	-1.193918E-001
1422	9	-6.802875E-004	-3.384617E-003	-2.399142E-003	-1.194342E-001
1423	1	-6.787681E-004	-4.380784E-003	-2.392653E-003	-1.545832E-001
1423	2	-6.777658E-004	-4.384665E-003	-2.393689E-003	-1.547234E-001
1423	3	-7.872323E-004	-4.384675E-003	-2.496649E-003	-1.547286E-001
1423	4	-7.873347E-004	-4.380732E-003	-2.497189E-003	-1.545825E-001
1423	5	-6.791755E-004	-4.382739E-003	-2.395971E-003	-1.546539E-001
1423	6	-6.932276E-004	-4.384679E-003	-2.444681E-003	-1.547222E-001
1423	7	-7.871674E-004	-4.382743E-003	-2.496879E-003	-1.546546E-001
1423	8	-6.926719E-004	-4.380610E-003	-2.445319E-003	-1.545814E-001
1423	9	-6.927113E-004	-4.382733E-003	-2.445477E-003	-1.546533E-001
1424	1	-6.999852E-004	-5.405539E-003	-2.470060E-003	-1.907464E-001
1424	2	-6.997564E-004	-5.409563E-003	-2.469861E-003	-1.908855E-001
1424	3	-7.287053E-004	-5.409570E-003	-2.571733E-003	-1.908833E-001
1424	4	-7.287454E-004	-5.405602E-003	-2.572000E-003	-1.907455E-001
1424	5	-6.999153E-004	-5.407522E-003	-2.470080E-003	-1.908141E-001
1424	6	-7.141735E-004	-5.409572E-003	-2.519369E-003	-1.908886E-001
1424	7	-7.286046E-004	-5.407576E-003	-2.570913E-003	-1.908144E-001
1424	8	-7.142135E-004	-5.405570E-003	-2.519637E-003	-1.907445E-001
1424	9	-7.141935E-004	-5.407571E-003	-2.519503E-003	-1.908191E-001
1425	1	-7.217118E-004	-6.463863E-003	-2.546030E-003	-2.280650E-001
1425	2	-7.216330E-004	-6.467958E-003	-2.546098E-003	-2.282387E-001
1425	3	-7.582728E-004	-6.467971E-003	-2.675888E-003	-2.282362E-001

1425	4	-7.584793E-004	-6.463002E-003	-2.674275E-003	-2.280640E-001
1425	5	-7.215830E-004	-6.465544E-003	-2.545626E-003	-2.281508E-001
1425	6	-7.397680E-004	-6.467970E-003	-2.609598E-003	-2.282376E-001
1425	7	-7.577795E-004	-6.465586E-003	-2.672696E-003	-2.281507E-001
1425	8	-7.394899E-004	-6.463892E-003	-2.609864E-003	-2.280630E-001
1425	9	-7.396290E-004	-6.465588E-003	-2.610288E-003	-2.281517E-001
1426	1	-7.506275E-004	-7.560946E-003	-2.649240E-003	-2.667996E-001
1426	2	-7.510154E-004	-7.565434E-003	-2.649657E-003	-2.669611E-001
1426	3	-7.827756E-004	-7.565445E-003	-2.761806E-003	-2.669584E-001
1426	4	-7.828456E-004	-7.560999E-003	-2.758149E-003	-2.668860E-001
1426	5	-7.503785E-004	-7.563121E-003	-2.647696E-003	-2.668824E-001
1426	6	-7.666934E-004	-7.565430E-003	-2.703660E-003	-2.669593E-001
1426	7	-7.828445E-004	-7.563089E-003	-2.759995E-003	-2.668819E-001
1426	8	-7.664816E-004	-7.560943E-003	-2.704383E-003	-2.668043E-001
1426	9	-7.666231E-004	-7.563112E-003	-2.703942E-003	-2.668812E-001

Appendix G.2
Slope Stability Analyses

URS



NOTES:

1. FS = THEORETICAL FACTOR OF SAFETY AGAINST SLOPE INSTABILITY.

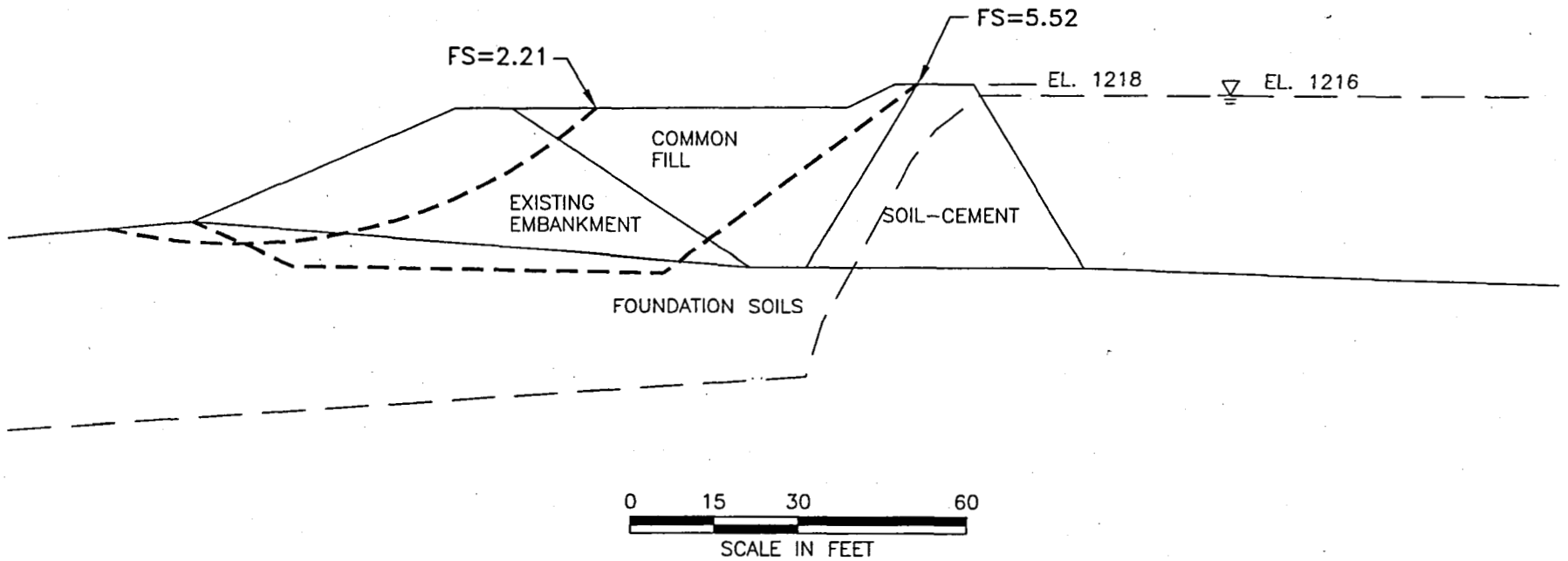
2. FOR MATERIAL PROPERTY CHARACTERIZATION SEE TABLE ____.

Job No. : 23443748	SLOPE STABILITY RESULTS MAX. HEIGHT SOIL CEMENT SECTION END OF CONSTRUCTION CASE
Prepared by : ISG	
Date : 8/24/04	

FIG. G.2-1

N:\Projects\23443748_White_Tanks_FRS_3\Sub_00\09.0_CAD\STABILITY-1A.Dwg

URS



NOTES:

1. FS = THEORETICAL FACTOR OF SAFETY AGAINST SLOPE INSTABILITY.

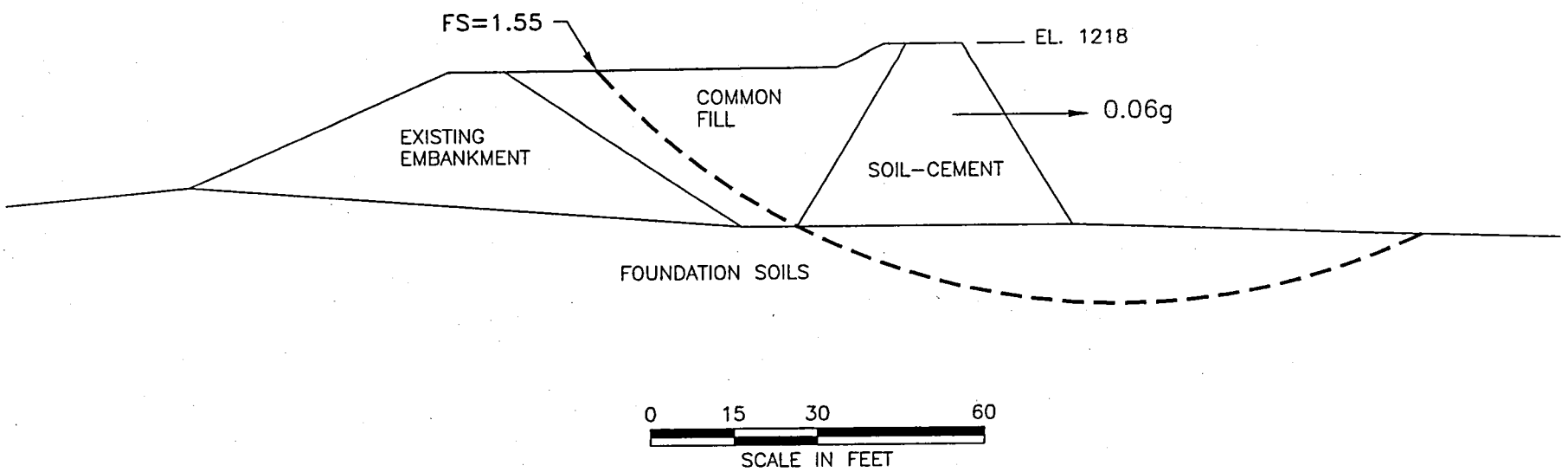
2. FOR MATERIAL PROPERTY CHARACTERIZATION SEE TABLE ____.

Job No. : 23443748	SLOPE STABILITY RESULTS MAX. HEIGHT SOIL CEMENT SECTION STEADY-STATE SEEPAGE CASE
Prepared by : ISG	
Date : 8/24/04	

FIG. G.2-2

N:\Projects\23443748_White_Tanks_FRS_3\Sub_00\09.0_CAD\STABILITY-1C.dwg

URS



NOTES:

1. FS = THEORETICAL FACTOR OF SAFETY AGAINST SLOPE INSTABILITY.

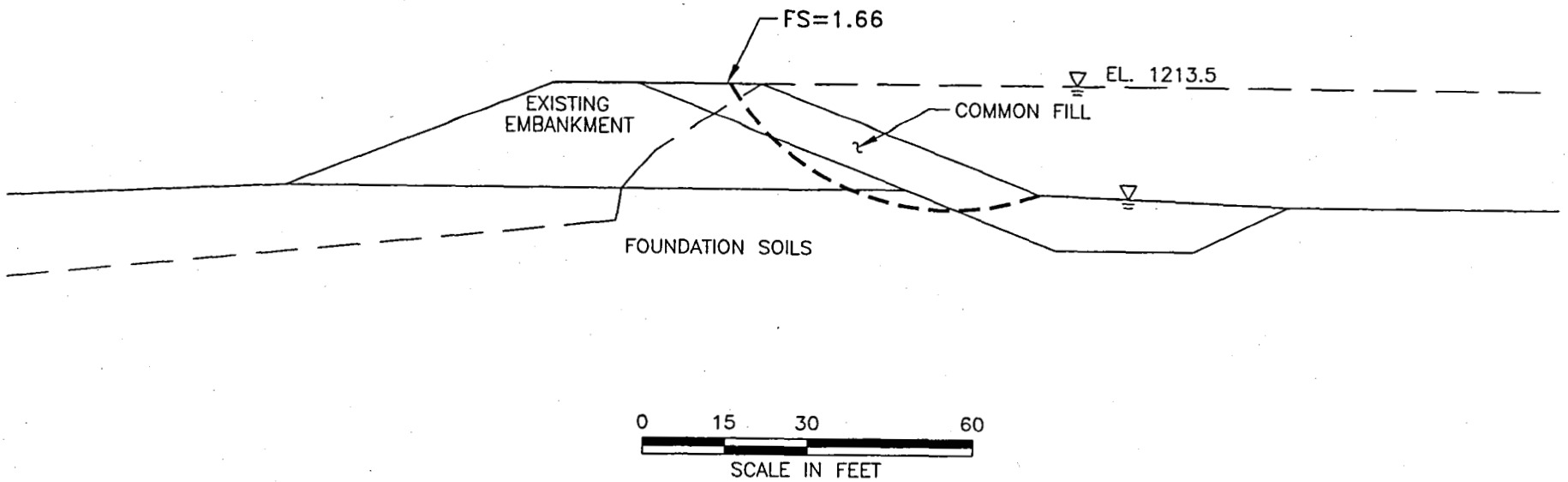
2. FOR MATERIAL PROPERTY CHARACTERIZATION SEE TABLE ____.

Job No. : 23443748	SLOPE STABILITY RESULTS MAX. HEIGHT SOIL CEMENT SECTION PSEUDO–STATIC CASE
Prepared by : ISG	
Date : 8/24/04	

FIG. G.2-3

N:\Projects\23443748_White_Tanks_FRS_3\Sub_00\09.0_CAD\STABILITY-1B.dwg

URS



NOTES:

1. FS = THEORETICAL FACTOR OF SAFETY AGAINST SLOPE INSTABILITY.

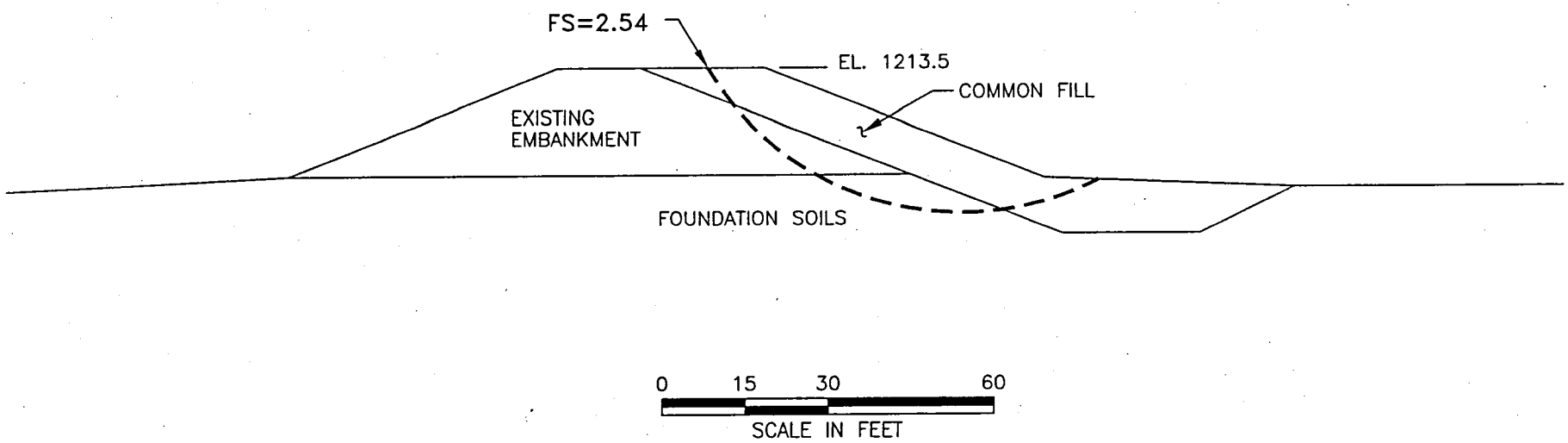
2. FOR MATERIAL PROPERTY CHARACTERIZATION SEE TABLE ____.

Job No. : 23443748	SLOPE STABILITY RESULTS TRANSITION SECTION INSTANTANEOUS DRAWDOWN CASE
Prepared by : ISG	
Date : 8/24/04	

FIG. G.2-4

N:\Projects\23443748_White_Tanks_FRS_3\Sub_00\09.0_CAD\STABILITY-1D.dwg

URS



NOTES:

1. FS = THEORETICAL FACTOR OF SAFETY AGAINST SLOPE INSTABILITY.

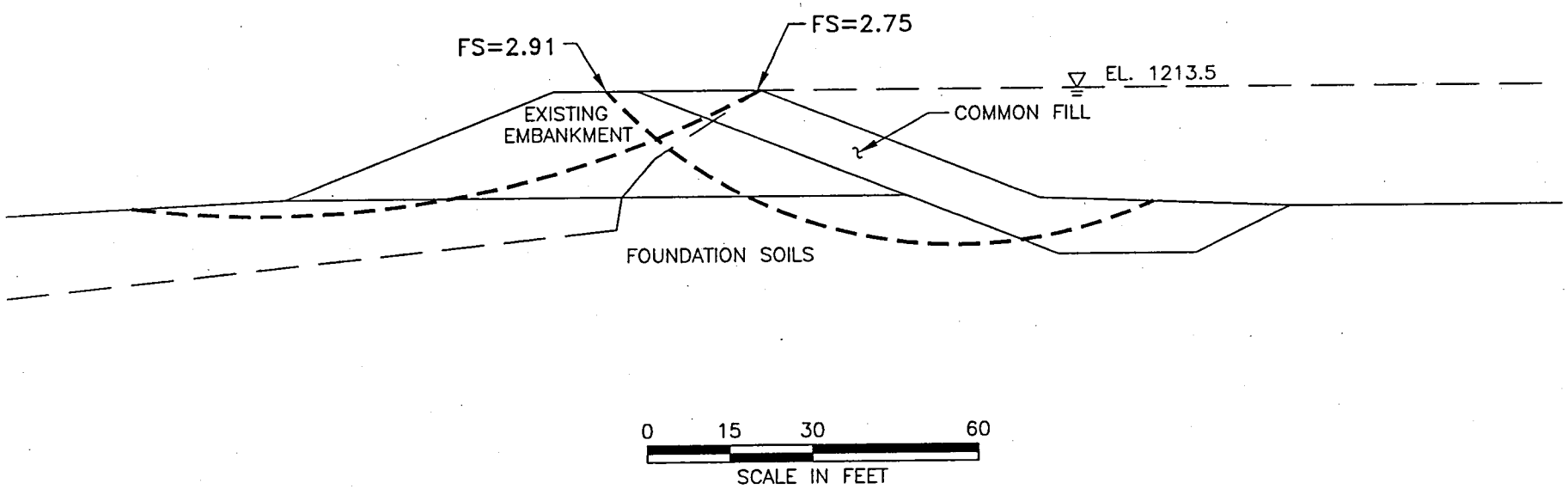
2. FOR MATERIAL PROPERTY CHARACTERIZATION SEE TABLE ____.

Job No. : 23443748	SLOPE STABILITY RESULTS TRANSITION SECTION END OF CONSTRUCTION CASE
Prepared by : ISG	
Date : 8/24/04	

FIG. G.2-5

N:\Projects\23443748_White_Tanks_FRS_3\Sub_00\09.0_CAD\STABILITY-2A.dwg

URS



NOTES:

1. FS = THEORETICAL FACTOR OF SAFETY AGAINST SLOPE INSTABILITY.

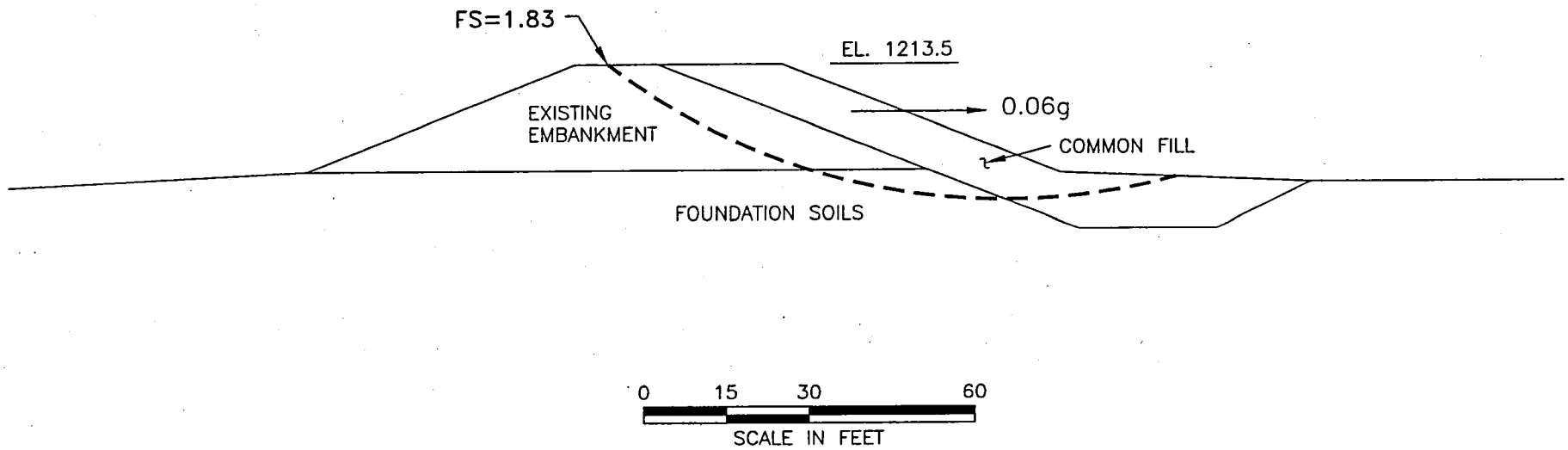
2. FOR MATERIAL PROPERTY CHARACTERIZATION SEE TABLE ___.

Job No. : 23443748	SLOPE STABILITY RESULTS TRANSITION SECTION STEADY-STATE SEEPAGE CASE
Prepared by : ISG	
Date : 8/24/04	

FIG. G.2-6

N:\Projects\23443748_White_Tanks_FRS_3\Sub_00\09.0_CAD\STABILITY-2C.dwg

URS



NOTES:

1. FS = THEORETICAL FACTOR OF SAFETY AGAINST SLOPE INSTABILITY.

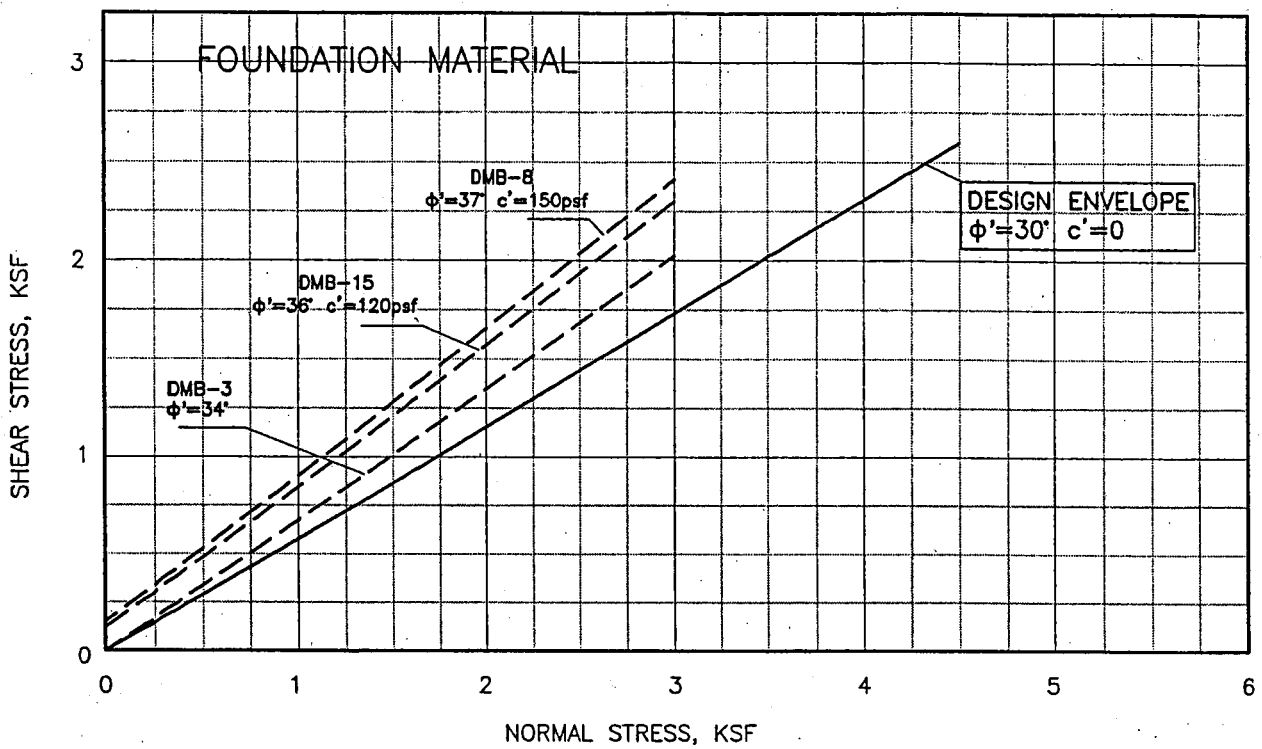
2. FOR MATERIAL PROPERTY CHARACTERIZATION SEE TABLE ____.

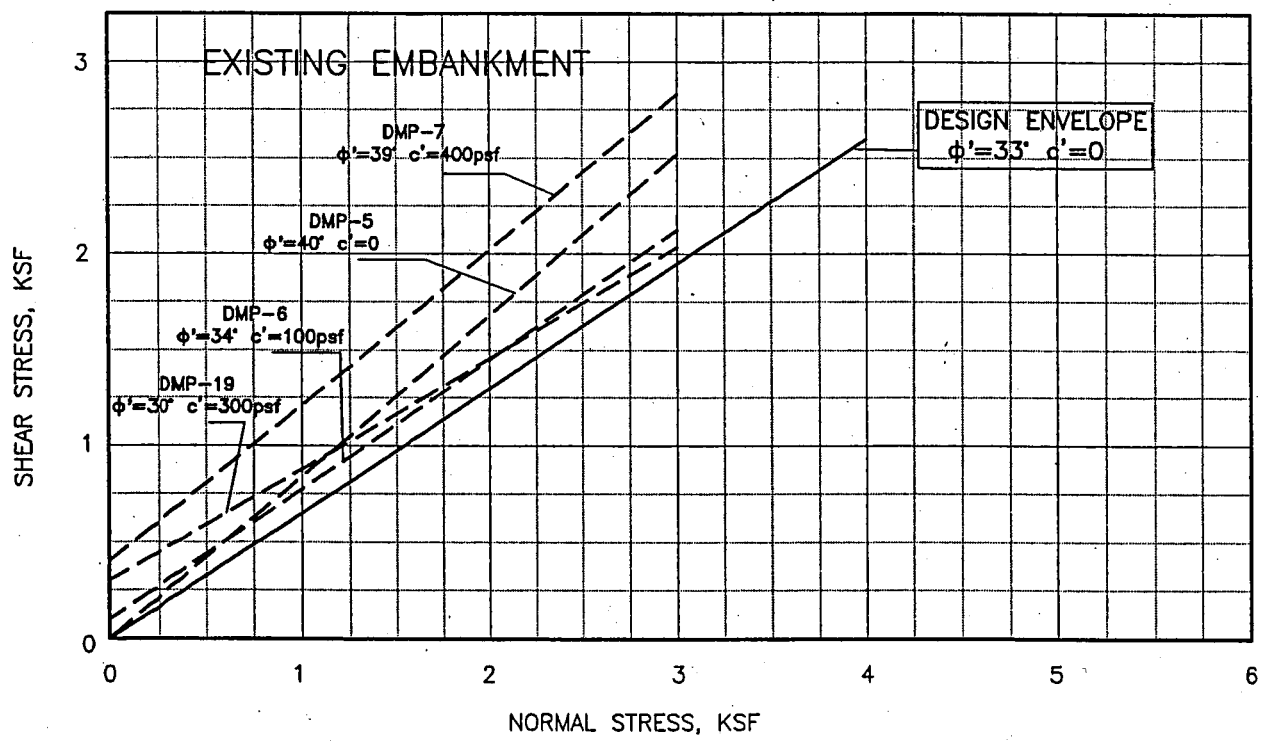
Job No. : 23443748	SLOPE STABILITY RESULTS TRANSITION SECTION PSEUDO-STATIC CASE
Prepared by : ISG	
Date : 8/24/04	

FIG. G.2-7

N:\Projects\23443748_White_Tanks_FRS_3\Sub_00\09.0_CAD\STABILITY-2B.dwg

URS





NOTES:

1. Samples DMB-3,-8, and -15 are undisturbed samples taken from 10ft depth.
2. Samples DMP-5, -6, -7, and -19 are remolded samples.

Job No. : 23443748	WHITE TANKS FRS No. 3
Prepared By : ISG	CONSOLIDATED DRAINED DESIGN STRENGTH ENVELOPES FOUNDATION AND EXISTING EMBANKMENT
Date : 7/27/04	

FIG. 6.2-8

N:\Projects\22235635_Elkhead_Reservoir\Sub_00\9.0_CAD\SHEARTEST-01.dwg

URS

EXHIBIT 4.7-2

CALCULATION COVER SHEET

Client: FLOOD CONTROL DISTRICT OF MARICOPA COUNTY, ARIZONA Project Name: 23443748 FLOOD RETENTION SYSTEM NO 3.

Project/Calculation Number:

Title: SLOPE STABILITY ANALYSES FOR FRS No 3.

Total Number of Pages (including cover sheet):

Total Number of Computer Runs:

Prepared by: ISG Date: 8-26-04

Checked by: EJV Date: 8-27-04

Description and Purpose:

PERFORM SLOPE STABILITY ANALYSES FOR MAX. HEIGHT SOIL-CEMENT SECTION AND TRANSITION SECTION OF THE DAM.

Design Basis/References/Assumptions

SEE WRITEUP IN THE DESIGN REPORT.

Remarks/Conclusions/Results:

ALL COMPUTED ~~FOR~~ FS VALUES FOR VARIOUS LOADING CONDITIONS FOR BOTH STUDY SECTIONS EXCEED THE MINIMUM ACCEPTABLE VALUES. — OK.

Calculation Approved by: Ed Villano 8/27/04

Project Manager/Date

Revision No.:	Description of Revision:	Approved by:

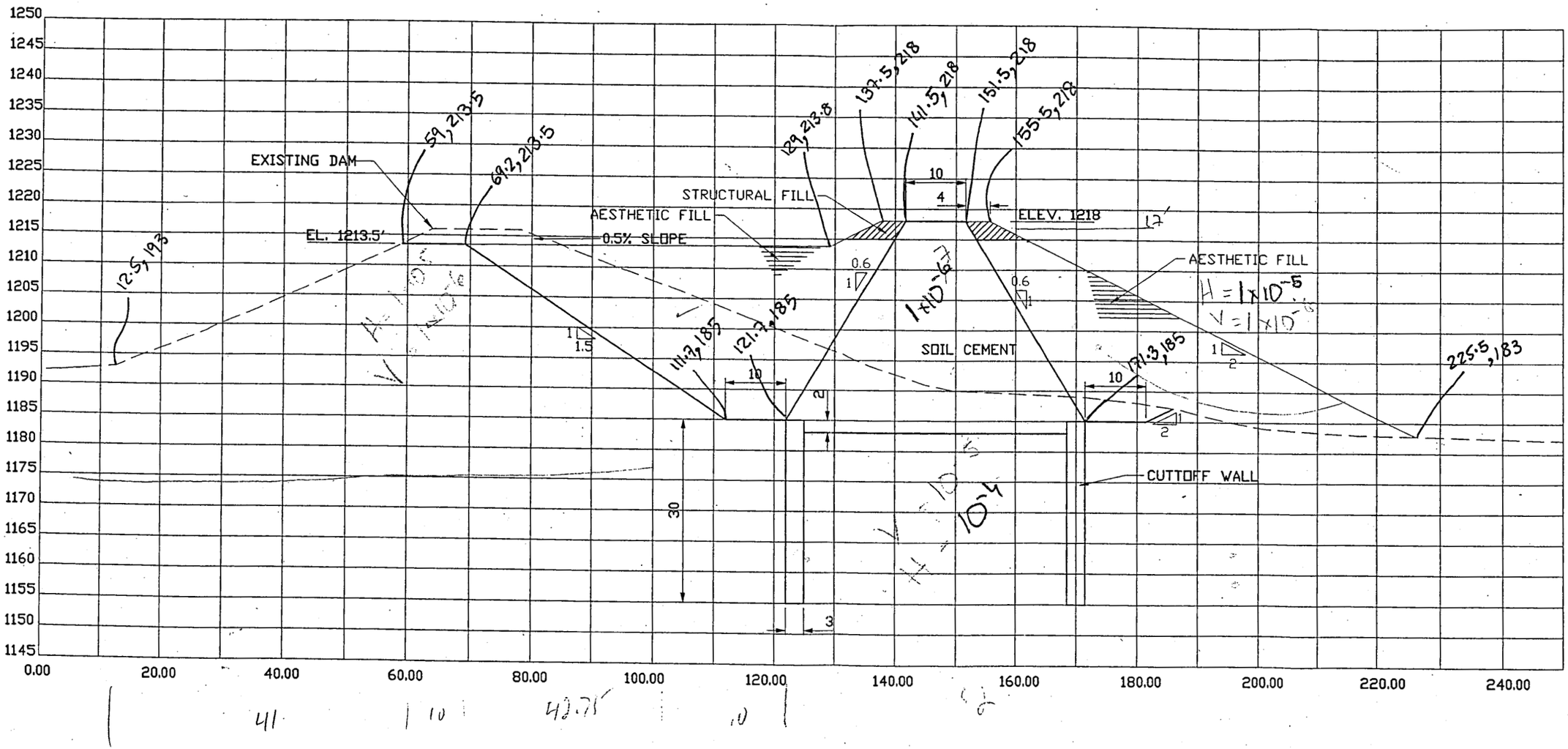
Project Manager/Date

MODEL GEOMETRY
MAXIMUM SECTION

1 cm/sec => 2834 FT/day

1" = 10'

XS2 SHEET

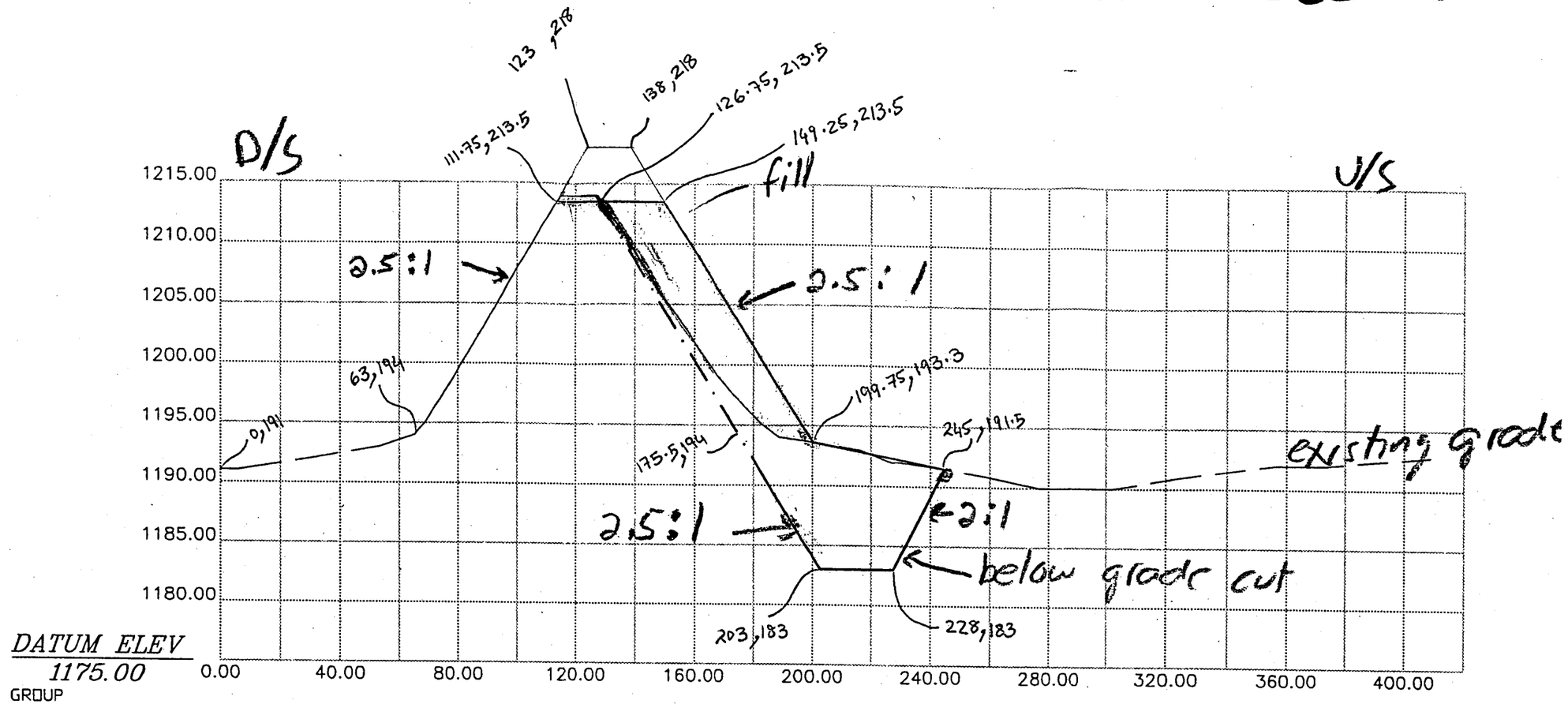


SECTION
MAXIMIUM FRZ - SOUTH EMBANKMENT (B)

5 0 5 10
Scale in Feet

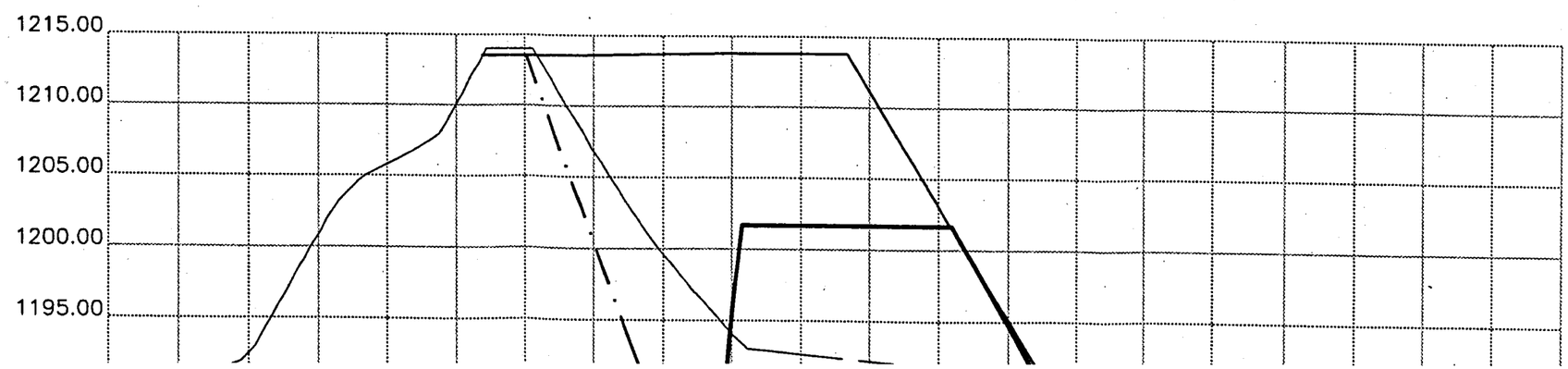
(@ OLD STATIONING ...)

MODEL GEOMETRY - TRANSITION SECTION



DATUM ELEV
1175.00

GROUP
SECTION A



UTEXAS3 Input and Output Files

Maximum Height Soil-Cement Section

```
HEADING
 White Tanks. End of Construction
 Units lbs-ft ,
 By ISG, Date Aug 2004
Profile Lines
1   1   Existing Dam
12.5    193
59      213.5
69.2    213.5
111.7   185

2   2   Common Fill - Downstream
69.2    213.5
129     213.8
137.5   218
141.5   218

3   3   Soil Cement
121.7   185
141.5   218
151.5   218
171.3   185

4   4   Foundation
-20     190
12.5    193
111.7   185
121.7   185
171.3   185
225.5   183
260     182


Material Properties
1    Existing Dam
  125
  Conventional Shear
  0    33
  No Piezometric Line
2    Common Fill
  120
  Conventional Shear
  500    19
 No Piezometric Line
3    Soil Cement
  135
  Conventional Shear
  28800    0
 No Piezometric Line
4    Foundation
  118
  Conventional Shear
  0     30
 No Piezometric Line

Analysis and Computations
Circular search
180    275   5   170
POINT
121.7  185
iterations
200

Plot
compute
```

```
1       UTEXAS3 - VER. 1.200 -  2/22/98 - (C) 1985-1998 S. G. WRIGHT
        Ten (10) copies licensed to Woodward-Clyde Int'l - Denver, CO
        Date:  8:26:2004   Time: 10: 1: 6   Input file: ec1.inn

        TABLE NO. 1
        ***********************************
        * COMPUTER PROGRAM DESIGNATION - UTEXAS3 *
        * Originally Coded By Stephen G. Wright  *
        * Version No. 1.200                      *
        * Last Revision Date  2/22/98            *
        * (C) Copyright 1985-1998 S. G. Wright   *
        * All Rights Reserved                    *
        ***********************************

        ****************************************************************
        *                                                              *
        *      RESULTS OF COMPUTATIONS PERFORMED USING THIS COMPUTER   *
        * PROGRAM SHOULD NOT BE USED FOR DESIGN PURPOSES UNLESS THEY   *
        * HAVE BEEN VERIFIED BY INDEPENDENT ANALYSES, EXPERIMENTAL     *
        * DATA OR FIELD EXPERIENCE. THE USER SHOULD UNDERSTAND THE     *
        * ALGORITHMS AND ANALYTICAL PROCEDURES USED IN THE COMPUTER    *
        * PROGRAM AND MUST HAVE READ ALL DOCUMENTATION FOR THIS        *
        * PROGRAM BEFORE ATTEMPTING ITS USE.                           *
        *                                                              *
        *      NEITHER SHINOAK SOFTWARE NOR STEPHEN G. WRIGHT          *
        * MAKE OR ASSUME LIABILITY FOR ANY WARRANTIES, EXPRESSED OR    *
        * IMPLIED, CONCERNING THE ACCURACY, RELIABILITY, USEFULNESS    *
        * OR ADAPTABILITY OF THIS COMPUTER PROGRAM.                    *
        *                                                              *
        ****************************************************************
1       UTEXAS3 - VER. 1.200 -  2/22/98 - (C) 1985-1998 S. G. WRIGHT
        Ten (10) copies licensed to Woodward-Clyde Int'l - Denver, CO
        Date:  8:26:2004   Time: 10: 1: 6   Input file: ec1.inn
         White Tanks. End of Construction
         Units lbs-ft ,
         By ISG, Date Aug 2004

        TABLE NO.  2
        ***************************
        * NEW PROFILE LINE DATA *
        ***************************

        PROFILE LINE  1 - MATERIAL TYPE =  1
        Existing Dam

             Point       X              Y

               1        12.500        193.000
               2        59.000        213.500
               3        69.200        213.500
               4       111.700        185.000

        PROFILE LINE  2 - MATERIAL TYPE =  2
        Common Fill - Downstream

             Point       X              Y

               1        69.200        213.500
               2       129.000        213.800
```



```
               3       137.500        218.000
               4       141.500        218.000

        PROFILE LINE  3 - MATERIAL TYPE =  3
        Soil Cement

             Point       X              Y

               1       121.700        185.000
               2       141.500        218.000
               3       151.500        218.000
               4       171.300        185.000

        PROFILE LINE  4 - MATERIAL TYPE =  4
        Foundation

             Point       X              Y

               1       -20.000        190.000
               2        12.500        193.000
               3       111.700        185.000
               4       121.700        185.000
               5       171.300        185.000
               6       225.500        183.000
               7       260.000        182.000

        All new profile lines defined - No old lines retained
1       UTEXAS3 - VER. 1.200 -  2/22/98 - (C) 1985-1998 S. G. WRIGHT
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        Date:  8:26:2004   Time: 10: 1: 6   Input file: ec1.inn
         White Tanks. End of Construction
         Units lbs-ft ,
         By ISG, Date Aug 2004

        TABLE NO.  3
        ***************************************************************
        * NEW MATERIAL PROPERTY DATA - CONVENTIONAL/FIRST-STAGE COMPUTATIONS *
        ***************************************************************

        DATA FOR MATERIAL TYPE  1
        Existing Dam

             Unit weight of material =  125.000

             CONVENTIONAL (ISOTROPIC) SHEAR STRENGTHS
             Cohesion - - - - - - - -          .000
             Friction angle - - - - -  33.000 degrees

             No (or zero) pore water pressures

        DATA FOR MATERIAL TYPE  2
        Common Fill

             Unit weight of material =  120.000

             CONVENTIONAL (ISOTROPIC) SHEAR STRENGTHS
             Cohesion - - - - - - - -      500.000
             Friction angle - - - - -  19.000 degrees
```



```
        DATA FOR MATERIAL TYPE  3
        Soil Cement

             Unit weight of material =  135.000

             CONVENTIONAL (ISOTROPIC) SHEAR STRENGTHS
             Cohesion - - - - - - - -   29000.000
             Friction angle - - - - -    .000 degrees

             No (or zero) pore water pressures

        DATA FOR MATERIAL TYPE  4
        Foundation

             Unit weight of material =  118.000

             CONVENTIONAL (ISOTROPIC) SHEAR STRENGTHS
             Cohesion - - - - - - - -          .000
             Friction angle - - - - -  30.000 degrees

             No (or zero) pore water pressures

        All new material properties defined - No old data retained
1       UTEXAS3 - VER. 1.200 -  2/22/98 - (C) 1985-1998 S. G. WRIGHT
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        Date:  8:26:2004   Time: 10: 1: 6   Input file: ec1.inn
         White Tanks. End of Construction
         Units lbs-ft ,
         By ISG, Date Aug 2004

        TABLE NO. 15
        ***************************************
        * NEW ANALYSIS/COMPUTATION DATA *
        ***************************************

        Circular Shear Surface(s)

        Automatic Search Performed

        Starting Center Coordinate for Search at -
                                                        X =      180.000
                                                        Y =      275.000

        Required accuracy for critical center (= minimum
        spacing between grid points) =        5.000

        Critical shear surface not allowed to pass below Y =      170.000

        For the initial mode of search
        all circles pass through the point at -
                                                        X =      121.700
                                                        Y =      185.000

        Maximum number of iterations allowed for
        calculating the factor of safety =  200

        ------------------------------------------------------------------
        THE FOLLOWING REPRESENT EITHER DEFAULT OR PREVIOUSLY DEFINED VALUES:
```



```
        Initial trial estimate for the factor of safety =   3.000

        Initial trial estimate for side force inclination =  15.000 degrees
        (Applicable to Spencer's procedure only)

        Allowed force imbalance for convergence =    100.000

        Allowed moment imbalance for convergence =     100.000

        Initial trial values for factor of safety (and side force inclination
        for Spencer's procedure) will be kept constant during search

        Maximum subtended angle to be used for subdivision of the
        circle into slices =   3.00 degrees

        Depth of crack =         .000

        Search will be continued to locate a more critical shear
        surface (if one exists) after the initial mode is complete

        Depth of water in crack =         .000

        Unit weight of water in crack =    62.400

        Seismic coefficient =  .000

        Conventional (single-stage) computations to be performed

        Procedure used to compute the factor of safety: SPENCER
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        Ten (10) copies licensed to Woodward-Clyde Int'l - Denver, CO
        Date:  8:26:2004   Time: 10: 1: 6   Input file: ec1.inn
         White Tanks. End of Construction
         Units lbs-ft ,
         By ISG, Date Aug 2004

        TABLE NO. 16
        ***************************
        * NEW SLOPE GEOMETRY DATA *
        ***************************

        NOTE - NO DATA WERE INPUT, SLOPE GEOMETRY DATA
        WERE GENERATED BY THE PROGRAM

        Slope Coordinates -

             Point       X              Y

               1       -20.000        190.000
               2        12.500        193.000
               3        59.000        213.500
               4        69.200        213.500
               5       129.000        213.800
               6       137.500        218.000
               7       141.500        218.000
               8       151.500        218.000
               9       171.300        185.000
              10       225.500        183.000
```

```
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Date:  8:26:2004   Time: 10: 1: 6   Input file: ec1.inn
 White Tanks. End of Construction
 Units lbs-ft ,
 By ISG, Date Aug 2004

TABLE NO. 17
INFORMATION FOR CURRENT MODE OF SEARCH - All Circles Pass Through
the Fixed Point at   X =   121.700  and Y =   185.000
-----------------------------------------------------------------
                                    1-Stage
Center Coordinates                  Factor  Side Force
                                     of     Inclination
     X          Y       Radius      Safety   (degrees)   Iterations


    30.00    125.00    109.59 Center of circle is below lowest
                              point of slope - CIRCLE REJECTED
   180.00    125.00     83.66 Center of circle is below lowest
                              point of slope - CIRCLE REJECTED
   330.00    125.00    216.77 Center of circle is below lowest
                              point of slope - CIRCLE REJECTED
    30.00    275.00    128.49 Bottom of circle exceeds allowable
                              depth - CIRCLE REJECTED
   180.00    275.00    107.23 Bottom of circle exceeds allowable
                              depth - CIRCLE REJECTED
   330.00    275.00    226.91 Bottom of circle exceeds allowable
                              depth - CIRCLE REJECTED
    30.00    425.00    256.92 Bottom of circle exceeds allowable
                              depth - CIRCLE REJECTED
   180.00    425.00    246.98   2.875     -11.09          3
   330.00    425.00    317.79 Bottom of circle exceeds allowable
                              depth - CIRCLE REJECTED

    30.00    575.00    400.64 See Message on Next Line(s)
CIRCLE DOES NOT INTERSECT SLOPE

   180.00    575.00    394.33   3.802      -8.07          5
   330.00    575.00    442.14 Bottom of circle exceeds allowable
                              depth - CIRCLE REJECTED

   155.00    400.00    217.56   3.674     -10.69          4
   180.00    400.00    222.76   2.731     -11.38          3
   205.00    400.00    230.57 Bottom of circle exceeds allowable
                              depth - CIRCLE REJECTED
   155.00    425.00    242.30   3.924      -9.96          5
   205.00    425.00    254.05 See Message on Next Line(s)
CIRCLE DOES NOT INTERSECT SLOPE

   155.00    450.00    267.08   4.100      -9.29          5
   180.00    450.00    271.34   3.831     -10.73          3
   205.00    450.00    277.78 See Message on Next Line(s)
CIRCLE DOES NOT INTERSECT SLOPE


   155.00    375.00    192.90   3.433     -11.49          4
   180.00    375.00    198.74   2.597     -11.55          4
   205.00    375.00    207.46 Bottom of circle exceeds allowable
                              depth - CIRCLE REJECTED
```



```
   155.00    350.00    168.33   3.206     -12.34          3
   180.00    350.00    175.00   2.564     -10.71          4
   205.00    350.00    184.83 Bottom of circle exceeds allowable
                              depth - CIRCLE REJECTED

   155.00    325.00    143.91   2.996     -13.15          3
   180.00    325.00    151.65   2.453     -10.80          4
   205.00    325.00    162.91 Bottom of circle exceeds allowable
                              depth - CIRCLE REJECTED

   155.00    300.00    119.72   2.871     -13.26          3
   180.00    300.00    128.93   2.366     -10.80          4
   205.00    300.00    142.00 Bottom of circle exceeds allowable
                              depth - CIRCLE REJECTED

   155.00    275.00     95.96   2.691     -14.19          3
   180.00    275.00    107.23 Bottom of circle exceeds allowable
                              depth - CIRCLE REJECTED
   205.00    275.00    122.63 Bottom of circle exceeds allowable
                              depth - CIRCLE REJECTED

   165.00    285.00    108.97   2.397     -13.34          5
   180.00    285.00    115.75 Bottom of circle exceeds allowable
                              depth - CIRCLE REJECTED
   195.00    285.00    123.99 Bottom of circle exceeds allowable
                              depth - CIRCLE REJECTED
   165.00    300.00    122.88   2.495     -13.12          4
   195.00    300.00    136.37 Bottom of circle exceeds allowable
                              depth - CIRCLE REJECTED
   165.00    315.00    137.02   2.596     -12.83          4
   180.00    315.00    142.47   2.414     -10.81          4
   195.00    315.00    149.24 Bottom of circle exceeds allowable
                              depth - CIRCLE REJECTED

   175.00    295.00    122.23   2.341     -11.55          5
   180.00    295.00    124.49   2.354     -10.78          4
   185.00    295.00    126.91 Bottom of circle exceeds allowable
                              depth - CIRCLE REJECTED
   175.00    300.00    126.75   2.362     -11.56          5
   185.00    300.00    131.27 Bottom of circle exceeds allowable
                              depth - CIRCLE REJECTED
   175.00    305.00    131.30   2.383     -11.56          5
   180.00    305.00    133.41   2.381     -10.81          4
   185.00    305.00    135.67 Bottom of circle exceeds allowable
                              depth - CIRCLE REJECTED

   170.00    290.00    115.58   2.348     -12.43          5
   175.00    290.00    117.75   2.322     -11.54          5
   180.00    290.00    120.10 Bottom of circle exceeds allowable
                              depth - CIRCLE REJECTED
   170.00    295.00    120.14   2.374     -12.42          5
   170.00    300.00    124.73   2.401     -12.40          5

   170.00    285.00    111.05   2.324     -12.44          5
   175.00    285.00    113.32   2.386     -11.51          5

   170.00    280.00    106.57   2.301     -12.42          5
   175.00    280.00    108.93   2.292     -11.47          5
   180.00    280.00    111.46 Bottom of circle exceeds allowable
                              depth - CIRCLE REJECTED
```



```
   170.00    275.00    102.14   2.280     -12.39          5
   175.00    275.00    104.60   2.280     -11.42          5

   170.00    270.00     97.76 Center of circle falls outside of
                              current grid - Grid re-initialized

   150.00    250.00     70.89   2.882     -14.55          3
   175.00    250.00     84.06 Bottom of circle exceeds allowable
                              depth - CIRCLE REJECTED
   200.00    250.00    101.76 Bottom of circle exceeds allowable
                              depth - CIRCLE REJECTED
   150.00    275.00     94.34   3.045     -13.38          3
   200.00    275.00    119.29 Bottom of circle exceeds allowable
                              depth - CIRCLE REJECTED
   150.00    300.00    118.43   3.130     -13.15          3
   175.00    300.00    126.75   2.362     -11.56          5
   200.00    300.00    139.13 Bottom of circle exceeds allowable
                              depth - CIRCLE REJECTED

   160.00    260.00     84.21   2.371     -14.42          4
   175.00    260.00     92.01 Bottom of circle exceeds allowable
                              depth - CIRCLE REJECTED
   190.00    260.00    101.44 Bottom of circle exceeds allowable
                              depth - CIRCLE REJECTED
   160.00    275.00     97.01   2.460     -14.16          4
   190.00    275.00    112.98 Bottom of circle exceeds allowable
                              depth - CIRCLE REJECTED
   160.00    290.00    111.77   2.577     -13.75          4
   175.00    290.00    117.75   2.322     -11.54          5
   190.00    290.00    125.26 Bottom of circle exceeds allowable
                              depth - CIRCLE REJECTED

   170.00    270.00     97.76   2.263     -12.34          5
   175.00    270.00    100.33 Bottom of circle exceeds allowable
                              depth - CIRCLE REJECTED
   180.00    270.00    103.07 Bottom of circle exceeds allowable
                              depth - CIRCLE REJECTED
   170.00    275.00    102.14   2.280     -12.39          5
   180.00    275.00    107.23 Bottom of circle exceeds allowable
                              depth - CIRCLE REJECTED
   170.00    280.00    106.57   2.301     -12.42          5
   175.00    280.00    108.93   2.292     -11.47          5
   180.00    280.00    111.46 Bottom of circle exceeds allowable
                              depth - CIRCLE REJECTED

   165.00    265.00     90.97   2.287     -13.41          5
   170.00    265.00     93.45   2.248     -12.27          5
Message on the following line(s) applies to the above circle
DENOMINATOR IN EQUATIONS FOR F WAS SMALL FOR   1 SLICES

FIRST AND LAST SLICES WHERE DENOMINATOR WAS LOW -    11    11

   175.00    265.00     96.13 Bottom of circle exceeds allowable
                              depth - CIRCLE REJECTED
   165.00    270.00     95.39   2.311     -13.42          5
   165.00    275.00     99.87   2.338     -13.42          5

   165.00    260.00     86.60   2.266     -13.36          5
   170.00    260.00     89.21   2.238     -12.17          5
```



```
   165.00    255.00     82.31   2.249     -13.27          5
   170.00    255.00     85.05 Bottom of circle exceeds allowable
                              depth - CIRCLE REJECTED
   175.00    255.00     87.98 Bottom of circle exceeds allowable
                              depth - CIRCLE REJECTED

At the end of the current mode of search the most critical
circle which was found has the following values -
X-center =    170.00    Y-center =    260.00    Radius =    89.21
Factor of Safety =   2.238      Side Force Inclination = -12.17


***** CAUTION ***** FACTOR OF SAFETY COULD NOT BE COMPUTED FOR SOME
                    OF GRID POINTS AROUND THE MINIMUM
***** RESULTS MAY BE ERRONEOUS *****
1      UTEXAS3 - VER. 1.208 -  2/22/98 - (C) 1985-1998 S. G. WRIGHT
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Date:  8:26:2004   Time: 10: 1: 6   Input file: ec1.inn
 White Tanks. End of Construction
 Units lbs-ft ,
 By ISG, Date Aug 2004

TABLE NO. 18
INFORMATION FOR CURRENT MODE OF SEARCH - All Circles Are Tangent
to a Horizontal Line at   Y =   170.793
-----------------------------------------------------------------
                                    1-Stage
Center Coordinates                  Factor  Side Force
                                     of     Inclination
     X          Y       Radius      Safety   (degrees)   Iterations


    20.00    110.00    -60.79 Center of circle is below lowest
                              point of slope - CIRCLE REJECTED
   170.00    110.00    -60.79 Center of circle is below lowest
                              point of slope - CIRCLE REJECTED
   320.00    110.00    -60.79 Center of circle is below lowest
                              point of slope - CIRCLE REJECTED
    20.00    260.00     89.21 See Message on Next Line(s)
CIRCLE DOES NOT INTERSECT SLOPE

   320.00    260.00     89.21 See Message on Next Line(s)
CIRCLE DOES NOT INTERSECT SLOPE

    20.00    410.00    239.21 See Message on Next Line(s)
CIRCLE DOES NOT INTERSECT SLOPE

   170.00    410.00    239.21   3.485      -8.57          4
   320.00    410.00    239.21 See Message on Next Line(s)
CIRCLE DOES NOT INTERSECT SLOPE


   145.00    235.00     64.21   3.440     -13.11          4
   170.00    235.00     64.21   4.337      -5.59          6
   195.00    235.00     64.21 See Message on Next Line(s)
Last Trial Values =                 16.500      7.14         20
(Last Trial Values Shown Above Are Not Correct Final Values)
VALUE OF SIDE FORCE INCLINATION BECAME OUTSIDE RANGE OF
```

FROM -80.00 TO 10.00 DEGREES

145.00	260.00	89.21	3.330	-12.82	3
195.00	260.00	89.21	See Message on Next Line(s)		
Last Trial Values =			9.944	4.63	15

(Last Trial Values Shown Above Are Not Correct Final Values)
VALUE OF SIDE FORCE INCLINATION BECAME OUTSIDE RANGE OF

FROM -80.00 TO 10.00 DEGREES

145.00	285.00	114.21	3.438	-11.83	4
170.00	285.00	114.21	2.470	-11.45	4
195.00	285.00	114.21	7.282	-3.42	12
155.00	245.00	74.21	2.686	-13.29	3
170.00	245.00	74.21	3.377	-10.80	3
185.00	245.00	74.21	See Message on Next Line(s)		
Last Trial Values =			7.948	3.63	11

(Last Trial Values Shown Above Are Not Correct Final Values)
VALUE OF SIDE FORCE INCLINATION BECAME OUTSIDE RANGE OF

FROM -80.00 TO 10.00 DEGREES

155.00	260.00	89.21	2.885	-12.69	3
185.00	260.00	89.21	6.232	.00	10
155.00	275.00	104.21	2.874	-12.55	3
170.00	275.00	104.21	2.380	-11.74	4
185.00	275.00	104.21	5.021	-7.76	7
165.00	255.00	84.21	2.338	-12.59	4
170.00	255.00	84.21	2.591	-12.08	4
175.00	255.00	84.21	3.840	-9.70	5
165.00	260.00	89.21	2.385	-12.42	4
175.00	260.00	89.21	3.463	-10.65	4
165.00	265.00	94.21	2.432	-12.26	4
170.00	265.00	94.21	2.286	-12.03	5
175.00	265.00	94.21	3.111	-11.19	4

At the end of the current mode of search the most critical
circle which was found has the following values -
X-center = 170.00 Y-center = 260.00 Radius = 89.21
Factor of Safety = 2.238 Side Force Inclination = -12.17

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White Tanks. End of Construction
Units lbs-ft ,
By ISG, Date Aug 2004

TABLE NO. 21
***** 1-STAGE FINAL CRITICAL CIRCLE INFORMATION *****
X Coordinate of Center - - - - - - - - 170.000
Y Coordinate of Center - - - - - - - - 260.000
Radius - - - - - - - - - - - - - - - - 89.207
Factor of Safety - - - - - - - - - - - 2.238
Side Force Inclination - - - - - - - - -12.17

Number of circles tried - - - - - - - 129
No. of circles F calc. for - - - - - - 76

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TABLE NO. 26
****
* Coordinate, Weight, Strength and Pore Water Pressure *
* Information for Individual Slices for Conventional *
* Computations or First Stage of Multi-Stage Computations. *
* (Information is for the Critical Shear Surface in the *
* Case of an Automatic Search.) *
****

Slice No.	X	Y	Slice Weight	Matl. Type	Cohesion	Friction Angle	Pore Pressure
	93.8	213.6					
1	95.1	211.7	598.1	2	500.00	19.00	.0
	96.3	209.7					
2	97.7	207.8	1914.9	2	500.00	19.00	.0
	99.1	205.9					
3	100.5	204.1	3360.5	2	500.00	19.00	.0
	102.0	202.3					
4	103.5	200.5	4910.4	2	500.00	19.00	.0
	105.1	198.8					
5	106.7	197.1	6539.1	2	500.00	19.00	.0
	108.4	195.5					
6	110.0	194.0	7821.8	2	500.00	19.00	.0
	111.7	192.5					
7	113.5	191.0	9853.1	2	500.00	19.00	.0
	115.3	189.5					
8	117.2	188.1	11562.7	2	500.00	19.00	.0
	119.1	186.8					
9	120.4	185.9	8774.6	2	500.00	19.00	.0
	121.7	185.0					
10	121.7	185.0	.1	4	.00	30.00	.0
	121.7	185.0					
11	123.7	183.8	14551.7	4	.00	30.00	.0
	125.7	182.6					
12	127.3	181.7	13196.7	4	.00	30.00	.0
	129.0	180.8					
13	131.1	179.8	18636.8	4	.00	30.00	.0
	133.2	178.7					
14	135.4	177.8	21572.7	4	.00	30.00	.0
	137.5	176.9					
15	139.5	176.2	21775.5	4	.00	30.00	.0
	141.5	175.5					
16	143.7	174.8	25265.4	4	.00	30.00	.0
	146.0	174.1					
17	148.2	173.5	26310.6	4	.00	30.00	.0
	150.5	173.0					
18	151.0	172.8	5936.1	4	.00	30.00	.0
	151.5	172.7					
19	153.8	172.3	24965.2	4	.00	30.00	.0
	156.1	171.9					
20	158.4	171.6	20765.2	4	.00	30.00	.0
	160.7	171.3					

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Units lbs-ft ,
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TABLE NO. 26
****
* Coordinate, Weight, Strength and Pore Water Pressure *
* Information for Individual Slices for Conventional *
* Computations or First Stage of Multi-Stage Computations. *
* (Information is for the Critical Shear Surface in the *
* Case of an Automatic Search.) *
****

Slice No.	X	Y	Slice Weight	Matl. Type	Cohesion	Friction Angle	Pore Pressure
	160.7	171.3					
21	163.1	171.1	16281.4	4	.00	30.00	.0
	165.4	170.9					
22	167.7	170.9	11466.8	4	.00	30.00	.0
	170.0	170.8					
23	170.6	170.8	2368.8	4	.00	30.00	.0
	171.3	170.8					
24	173.6	170.9	7718.0	4	.00	30.00	.0
	176.0	171.0					
25	178.3	171.2	7425.2	4	.00	30.00	.0
	180.6	171.4					
26	182.9	171.8	6982.5	4	.00	30.00	.0
	185.2	172.1					
27	187.5	172.6	6396.8	4	.00	30.00	.0
	189.8	173.0					
28	192.1	173.6	5677.5	4	.00	30.00	.0
	194.3	174.2					
29	196.6	174.9	4836.4	4	.00	30.00	.0
	198.8	175.6					
30	201.0	176.4	3887.6	4	.00	30.00	.0
	203.2	177.2					
31	205.3	178.1	2847.2	4	.00	30.00	.0
	207.5	179.0					
32	209.6	180.1	1733.4	4	.00	30.00	.0
	211.7	181.1					
33	213.7	182.2	566.3	4	.00	30.00	.0
	215.7	183.4					

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Units lbs-ft ,
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TABLE NO. 27
****
* Seismic Forces and Forces Due to Surface Pressures for *
* Individual Slices for Conventional Computations or the *
* First Stage of Multi-Stage Computations. *
* (Information is for the Critical Shear Surface in the *
* Case of an Automatic Search.) *
****

				FORCES DUE TO SURFACE PRESSURES			
Slice No.	X	Seismic Force	Y for Seismic Force	Normal Force	Shear Force	X	Y
1	95.1	0.	212.6	0.	0.	.0	.0
2	97.7	0.	210.7	0.	0.	.0	.0
3	100.5	0.	208.9	0.	0.	.0	.0
4	103.5	0.	207.1	0.	0.	.0	.0
5	106.7	0.	205.4	0.	0.	.0	.0
6	110.0	0.	203.8	0.	0.	.0	.0
7	113.5	0.	202.4	0.	0.	.0	.0
8	117.2	0.	200.9	0.	0.	.0	.0
9	120.4	0.	199.8	0.	0.	.0	.0
10	121.7	0.	199.4	0.	0.	.0	.0
11	123.7	0.	198.6	0.	0.	.0	.0
12	127.3	0.	197.5	0.	0.	.0	.0
13	131.1	0.	197.1	0.	0.	.0	.0
14	135.4	0.	197.4	0.	0.	.0	.0
15	139.5	0.	197.4	0.	0.	.0	.0
16	143.7	0.	196.9	0.	0.	.0	.0
17	148.2	0.	196.3	0.	0.	.0	.0
18	151.0	0.	196.0	0.	0.	.0	.0
19	153.8	0.	193.8	0.	0.	.0	.0
20	158.4	0.	189.6	0.	0.	.0	.0
21	163.1	0.	185.4	0.	0.	.0	.0
22	167.7	0.	181.2	0.	0.	.0	.0
23	170.6	0.	178.5	0.	0.	.0	.0
24	173.6	0.	177.9	0.	0.	.0	.0
25	178.3	0.	178.0	0.	0.	.0	.0
26	182.9	0.	178.2	0.	0.	.0	.0
27	187.5	0.	178.5	0.	0.	.0	.0
28	192.1	0.	178.9	0.	0.	.0	.0
29	196.6	0.	179.5	0.	0.	.0	.0
30	201.0	0.	180.1	0.	0.	.0	.0
31	205.3	0.	180.9	0.	0.	.0	.0
32	209.6	0.	181.8	0.	0.	.0	.0
33	213.7	0.	182.8	0.	0.	.0	.0

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Units lbs-ft ,
By ISG, Date Aug 2004

TABLE NO. 29
****
* Information Generated During Iterative Solution for the Factor *
* of Safety and Side Force Inclination by Spencer's Procedure
****

Iter-ation	Trial Factor of Safety	Trial Side Force Inclination (degrees)	Force Imbalance (lbs.)	Moment Imbalance (ft.-lbs.)	Delta-F	Delta Theta (degrees)
1	3.00000	-15.0000	-.2210E+05	.4549E+07		
First-order corrections to F and THETA					-.123E+01	.119E+02
Values factored by .405E+00 - Deltas too large					-.500E+00	.483E+01

```
   2   2.50000   -10.1701  -.1181E+05   .2322E+07
First-order corrections to F and THETA .........  -.263E+00 -.379E+01
Second-order correction - Iteration   1 ........  -.237E+00 -.379E+01
Second-order correction - Iteration   2 ........  -.237E+00 -.379E+01

   3   2.26282   -13.9650   .1567E+03  -.1190E+06
First-order corrections to F and THETA .........  -.248E-01  .176E+01
Second-order correction - Iteration   1 ........  -.242E-01  .176E+01
Second-order correction - Iteration   2 ........  -.242E-01  .176E+01

   4   2.23861   -12.2833  -.8756E+00  -.1426E+04
First-order corrections to F and THETA .........  -.548E-03  .339E-01
Second-order correction - Iteration   1 ........  -.548E-03  .339E-01

   5   2.23806   -12.1693  -.6958E-02  -.1850E+01
First-order corrections to F and THETA .........  -.124E-05  .693E-04

Factor of Safety - - - - - - - -      2.238
Side Force Inclination - - - - -     -12.17
Number of Iterations - - - - - -      5
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 White Tanks. End of Construction
 Units lbs-ft ,
 By ISG, Date Aug 2004
```

TABLE NO. 38

```
*****************************************************************
*  Final Results for Stresses Along the Shear Surface           *
*  (Results for Critical Shear Surface in Case of a Search.)    *
*****************************************************************
```

SPENCER'S PROCEDURE USED TO COMPUTE FACTOR OF SAFETY
Factor of Safety = 2.238 Side Force Inclination = -12.17 Degrees

-------- VALUES AT CENTER OF BASE OF SLICE---------

Slice No.	X-center	Y-center	Total Normal Stress	Effective Normal Stress	Shear Stress
1	95.1	211.7	-40.2	-40.2	217.2
2	97.7	207.8	297.0	297.0	269.1
3	100.5	204.1	644.0	644.0	322.5
4	103.5	200.5	996.7	996.7	376.8
5	106.7	197.1	1351.8	1351.8	431.4
6	110.0	194.0	1698.7	1698.7	484.7
7	113.5	191.0	2041.9	2041.9	537.6
8	117.2	188.1	2387.3	2387.3	590.7
9	120.4	185.9	2672.0	2672.0	634.5
10	121.7	185.0	2434.2	2434.2	627.9
11	123.7	183.8	2958.9	2958.9	763.3
12	127.3	181.7	3317.5	3317.5	855.0
13	131.1	179.8	3777.5	3777.5	974.5
14	135.4	177.8	4387.8	4387.8	1131.9
15	139.5	176.2	4874.8	4874.8	1257.5
16	143.7	174.8	5191.8	5191.8	1339.3
17	148.2	173.5	5461.9	5461.9	1409.0

18	151.8	172.8	5621.8	5621.8	1450.3
19	153.8	172.3	5268.0	5268.0	1359.0
20	158.4	171.6	4455.5	4455.5	1149.4
21	163.1	171.1	3563.1	3563.1	919.2
22	167.7	170.9	2594.1	2594.1	669.2
23	170.6	170.8	1936.5	1936.5	499.6
24	173.6	170.9	1787.9	1787.9	461.2
25	178.3	171.2	1773.9	1773.9	457.6
26	182.9	171.8	1726.9	1726.9	445.5
27	187.5	172.6	1644.5	1644.5	424.2
28	192.1	173.6	1523.9	1523.9	393.1
29	196.6	174.9	1361.9	1361.9	351.3
30	201.0	176.4	1154.6	1154.6	297.9
31	205.3	178.1	897.2	897.2	231.4
32	209.6	180.1	583.3	583.3	150.5
33	213.7	182.2	208.4	208.4	53.8

CHECK SUMS - (ALL SHOULD BE SMALL)
SUM OF FORCES IN VERTICAL DIRECTION = .01 (= .848E-02)
SHOULD NOT EXCEED .100E+03
SUM OF FORCES IN HORIZONTAL DIRECTION = .02 (= .165E-01)
SHOULD NOT EXCEED .100E+03
SUM OF MOMENTS ABOUT COORDINATE ORIGIN = 1.30 (= .130E+01)
SHOULD NOT EXCEED .100E+03
SHEAR STRENGTH/SHEAR FORCE CHECK-SUM = .00 (= .250E-02)
SHOULD NOT EXCEED .100E+03

***** CAUTION ***** EFFECTIVE OR TOTAL NORMAL STRESS ON SHEAR SURFACE IS NEGATIVE AT POINTS ALONG THE UPPER ONE-HALF OF THE SHEAR SURFACE - A TENSION CRACK MAY BE NEEDED.

```
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 White Tanks. End of Construction
 Units lbs-ft ,
 By ISG, Date Aug 2004
```

TABLE NO. 39

```
*****************************************************************
*  Final Results for Side Forces and Stresses Between Slices.   *
*  (Results for Critical Shear Surface in Case of a Search.)    *
*****************************************************************
```

SPENCER'S PROCEDURE USED TO COMPUTE FACTOR OF SAFETY
Factor of Safety = 2.238 Side Force Inclination = -12.17 Degrees

---------- VALUES AT RIGHT SIDE OF SLICE ----------

Slice No.	X-Right	Side Force	Y-Coord. of Side Force Location	Fraction of Height	Sigma at Top	Sigma at Bottom
1	96.3	-724.	211.4	.429	-103.2	-256.3
2	99.1	-326.	214.8	ABOVE	-201.9	119.5
3	102.0	1105.	208.7	BELOW	-267.9	457.5
4	105.1	3453.	200.1	.091	-329.9	783.4
5	108.4	6582.	198.2	.148	-393.0	1099.4
6	111.7	10157.	196.1	.171	-455.5	1390.7

7	115.3	14350.	194.0	.183	-522.6	1681.4
8	119.1	18830.	191.9	.189	-591.1	1954.0
9	121.7	21926.	190.5	.191	-637.8	2128.2
10	121.7	21926.	190.5	.191	-637.8	2128.2
11	125.7	26150.	188.6	.193	-687.6	2325.8
12	129.0	29368.	187.2	.194	-727.2	2465.7
13	133.2	33051.	185.5	.182	-790.1	2529.9
14	137.5	36209.	183.9	.171	-840.4	2563.8
15	141.5	38323.	182.7	.169	-866.3	2627.9
16	146.0	39514.	181.5	.168	-870.5	2629.9
17	150.5	39358.	180.5	.168	-844.9	2553.0
18	151.5	39126.	180.4	.169	-834.7	2524.5
19	156.1	37315.	179.7	.204	-733.7	2630.5
20	160.7	34637.	179.3	.257	-493.6	2653.6
21	165.4	31585.	179.1	.341	59.8	2510.0
22	170.0	28740.	178.9	.492	1635.4	1796.2
23	171.3	28057.	178.8	.561	2636.3	1227.2
24	176.0	25507.	178.5	.542	2258.5	1346.0
25	180.6	22542.	178.4	.526	1923.9	1407.5
26	185.2	19240.	178.4	.511	1623.7	1414.3
27	189.8	15708.	178.7	.499	1352.2	1366.8
28	194.3	12086.	179.1	.489	1106.1	1263.5
29	198.8	8545.	179.6	.482	884.6	1100.5
30	203.2	5293.	180.4	.481	691.9	868.8
31	207.5	2580.	181.4	.500	545.6	545.7
32	211.7	700.	182.7	.648	538.0	32.7
33	215.7	0.	-79.9	BELOW	.0	.0

CHECK SUMS - (ALL SHOULD BE SMALL)
SUM OF FORCES IN VERTICAL DIRECTION = .01 (= .848E-02)
SHOULD NOT EXCEED .100E+03
SUM OF FORCES IN HORIZONTAL DIRECTION = .02 (= .165E-01)
SHOULD NOT EXCEED .100E+03
SUM OF MOMENTS ABOUT COORDINATE ORIGIN = 1.30 (= .130E+01)
SHOULD NOT EXCEED .100E+03
SHEAR STRENGTH/SHEAR FORCE CHECK-SUM = .00 (= .250E-02)
SHOULD NOT EXCEED .100E+03

***** CAUTION ***** FORCES BETWEEN SLICES ARE NEGATIVE AT POINTS ALONG THE UPPER ONE-HALF OF THE SHEAR SURFACE - A TENSION CRACK MAY BE NEEDED.

***** CAUTION ***** SOME OF THE FORCES BETWEEN SLICES ACT AT POINTS ABOVE THE SURFACE OF THE SLOPE OR BELOW THE SHEAR SURFACE - EITHER A TENSION CRACK MAY BE NEEDED OR THE SOLUTION MAY NOT BE A VALID SOLUTION

END-OF-FILE ENCOUNTERED WHILE READING COMMAND
WORDS - END OF PROBLEM(S) ASSUMED

```
HEADING
 White Tanks. Steady-State Drained,
 Units lbs-ft ,
 By ISG, Date Aug 2004
Profile Lines
1   1   Existing Dam
12.5    193
59      213.5
69.2    213.5
111.7   185

2   2   Common Fill - Downstream
69.2    213.5
129     213.8
137.5   218
141.5   218

3   3   Soil Cement
121.7   185
141.5   218
151.5   218
171.3   185

4   4   Foundation
-20     190
12.5    193
111.7   185
121.7   185
171.3   185
225.5   183
260     182


Material Properties
1    Existing Dam
  125
  Conventional Shear
  0    33
  Piezometric Line
  1
2    Common Fill
  120
  Conventional Shear
  0    33
  Piezometric Line
  1
3    Soil Cement
  135
  Conventional Shear
  72000    0
  Piezometric Line
  1
4    Foundation
  118
  Nonlinear
 -5000    0
  0       0
  10000   5774

  Piezometric Line
  1

Piezometric Line
1   62.4
-20      155
121.7    165
124.7    175
140.42   204.2
144.85   209.82
152.7    216
250      216


Surface Pressures
152.7   216     0        0
171.3   185     1934.4   0
225.5   183     2059.2   0
260     182     2121.6   0

Analysis and Computations
noncircular search
12.5     193  FIX
30       185  FIX
97       182
141.5    218

5
iterations
200

Plot
compute
```


1/2/4PRINT

```
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        TABLE NO. 1
        ***********************************
        * COMPUTER PROGRAM DESIGNATION - UTEXAS3 *
        * Originally Coded By Stephen G. Wright  *
        * Version No. 1.208                      *
        * Last Revision Date  2/22/98            *
        * (C) Copyright 1985-1998 S. G. Wright   *
        * All Rights Reserved                    *
        ***********************************

        ******************************************************************
        *                                                                *
        *      RESULTS OF COMPUTATIONS PERFORMED USING THIS COMPUTER     *
        * PROGRAM SHOULD NOT BE USED FOR DESIGN PURPOSES UNLESS THEY     *
        * HAVE BEEN VERIFIED BY INDEPENDENT ANALYSES, EXPERIMENTAL       *
        * DATA OR FIELD EXPERIENCE. THE USER SHOULD UNDERSTAND THE       *
        * ALGORITHMS AND ANALYTICAL PROCEDURES USED IN THE COMPUTER      *
        * PROGRAM AND MUST HAVE READ ALL DOCUMENTATION FOR THIS          *
        * PROGRAM BEFORE ATTEMPTING ITS USE.                             *
        *                                                                *
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        * IMPLIED, CONCERNING THE ACCURACY, RELIABILITY, USEFULNESS      *
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        *                                                                *
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        TABLE NO.  2
        ***************************
        * NEW PROFILE LINE DATA *
        ***************************

        PROFILE LINE  1 - MATERIAL TYPE =  1
        Existing Dam

             Point       X              Y

               1        12.500        193.000
               2        59.000        213.500
               3        69.200        213.500
               4       111.700        185.000

        PROFILE LINE  2 - MATERIAL TYPE =  2
        Common Fill - Downstream

             Point       X              Y

               1        69.200        213.500
               2       129.000        213.000
```



```
               3       137.500        218.000
               4       141.500        218.000

        PROFILE LINE  3 - MATERIAL TYPE =  3
        Soil Cement

             Point       X              Y

               1       121.700        185.000
               2       141.500        218.000
               3       151.500        218.000
               4       171.300        185.000

        PROFILE LINE  4 - MATERIAL TYPE =  4
        Foundation

             Point       X              Y

               1       -20.000        190.000
               2        12.500        193.000
               3       111.700        185.000
               4       121.700        185.000
               5       171.300        185.000
               6       225.500        183.000
               7       260.000        182.000

        All new profile lines defined - No old lines retained
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        TABLE NO.  3
        ******************************************************************
        * NEW MATERIAL PROPERTY DATA - CONVENTIONAL/FIRST-STAGE COMPUTATIONS *
        ******************************************************************

        DATA FOR MATERIAL TYPE  1
        Existing Dam

             Unit weight of material =  125.000

             CONVENTIONAL (ISOTROPIC) SHEAR STRENGTHS
             Cohesion - - - - - - - -          .000
             Friction angle - - - - -  33.000 degrees

             Pore water pressures defined by piezometric line
             Number of the piezometric line used =  1
             Negative pore pressures set to zero

        DATA FOR MATERIAL TYPE  2
        Common Fill

             Unit weight of material =  120.000

             CONVENTIONAL (ISOTROPIC) SHEAR STRENGTHS
```



```
             Pore water pressures defined by piezometric line
             Number of the piezometric line used =  1
             Negative pore pressures set to zero

        DATA FOR MATERIAL TYPE  3
        Soil Cement

             Unit weight of material =  135.000

             CONVENTIONAL (ISOTROPIC) SHEAR STRENGTHS
             Cohesion - - - - - - - -   72000.000
             Friction angle - - - - -    .000 degrees

             Pore water pressures defined by piezometric line
             Number of the piezometric line used =  1
             Negative pore pressures set to zero

        DATA FOR MATERIAL TYPE  4
        Foundation

             Unit weight of material =  118.000

             ---- NONLINEAR SHEAR STRENGTH ENVELOPE ----
             Point      Normal Stress      Shear Stress

               1           -5000.000            .000
               2                .000            .000
               3           10000.000         5774.000

             Pore water pressures defined by piezometric line
             Number of the piezometric line used =  1
             Negative pore pressures set to zero

        All new material properties defined - No old data retained
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        TABLE NO.  5
        ******************************************************************
        * NEW PIEZOMETRIC LINE DATA - CONVENTIONAL/FIRST-STAGE COMPUTATIONS *
        ******************************************************************

        Line
         No.    Point       X            Y

          1 - Unit weight of water =   62.40
          1        1      -20.000      155.000
          1        2      121.700      165.000
          1        3      124.700      175.000
          1        4      140.420      204.200
          1        5      144.850      209.020
          1        6      152.700      216.000
          1        7      250.000      216.000

        All new piezometric lines defined - No old lines retained
```



```
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        TABLE NO. 10
        ******************************************************************
        * NEW SURFACE PRESSURE DATA - CONVENTIONAL/FIRST-STAGE COMPUTATIONS *
        ******************************************************************

        ALL NEW DATA INPUT - NO OLD DATA RETAINED

        Surface Pressures -
                                                  Normal       Shear
        Point       X            Y             Pressure      Stress

          1      152.700      216.000            .000         .000
          2      171.300      185.000         1934.400         .000
          3      225.500      183.000         2059.200         .000
          4      260.000      182.000         2121.600         .000
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        TABLE NO. 15
        ***********************************
        * NEW ANALYSIS/COMPUTATION DATA *
        ***********************************

        Noncircular Shear Surface(s)

        Automatic Search Performed


        Coordinates of points on shear surface which are to be shifted -

        Point         X              Y       Shift Angle

          1         12.500        193.000                          - fixed
          2         30.000        185.000                          - fixed
          3         97.000        182.000   angle to be computed - moveable
          4        141.500        218.000   angle to be computed - moveable

        Initial distance for shifting points on shear surface =   5.000
        Maximum steepness permitted for toe of shear surface = 50.00 degrees

        Maximum number of iterations allowed for
        calculating the factor of safety =  200

        ------------------------------------------------------------------
        THE FOLLOWING REPRESENT EITHER DEFAULT OR PREVIOUSLY DEFINED VALUES:

        Initial trial estimate for the factor of safety =   3.000
```

Cohesion - - - - - - - - .000
Friction angle - - - - - 33.000 degrees

Initial trial estimate for side force inclination = 15.000 degrees

(Applicable to Spencer's procedure only)

Allowed force imbalance for convergence = 100.000

Allowed moment imbalance for convergence = 100.000

Initial trial values for factor of safety (and side force inclination for Spencer's procedure) will be kept constant during search

Number of increments for slice subdivision = 30

Depth of water in crack = .000

Unit weight of water in crack = 62.400

Seismic coefficient = .000

Conventional (single-stage) computations to be performed

Procedure used to compute the factor of safety: SPENCER
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TABLE NO. 16
NEW SLOPE GEOMETRY DATA

NOTE - NO DATA WERE INPUT, SLOPE GEOMETRY DATA WERE GENERATED BY THE PROGRAM

Slope Coordinates -

Point	X	Y
1	-20.000	190.000
2	12.500	193.000
3	59.000	213.500
4	69.200	213.500
5	129.000	213.800
6	137.500	218.000
7	141.500	218.000
8	151.500	218.000
9	171.300	185.000
10	225.500	183.000
11	260.000	182.000

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TABLE NO. 22
INITIAL COMPUTED INFORMATION FOR SEARCH

WITH NONCIRCULAR SHEAR SURFACE

Crack depth computed to be - - - .00

FOR INITIAL TRIAL NONCIRCULAR SHEAR SURFACE
1-Stage Factor of Safety - - - - - - - - 5.626
Side Force Inclination - - - - - - - - - 9.22
Number of Iterations - - - - - - - - - - 1

TABLE NO. 23
SEARCH TRIAL NUMBER 1

INCREMENTAL SHIFT DISTANCE USED TO COMPUTE DERIVATIVES = 5.00

Point	X	Y	1-Stage Factor of Safety	Side Force Inclination	Iterations
3	95.22	186.67	See Message on Next Line(s)		

FATAL ERROR IN CALCULATING FACTOR OF SAFETY

SOLUTION DID NOT CONVERGE WITHIN 200 ITERATIONS

3	98.78	177.33	See Message on Next Line(s)		

FATAL ERROR IN CALCULATING FACTOR OF SAFETY

SOLUTION DID NOT CONVERGE WITHIN 200 ITERATIONS

4	136.52	217.52	5.814	8.98	1
4	146.50	218.00	See Message on Next Line(s)		

FATAL ERROR IN CALCULATING FACTOR OF SAFETY

SOLUTION DID NOT CONVERGE WITHIN 200 ITERATIONS

Maximum distance shifted for new estimate of shear surface is .000 at point 1

Coordinates For New Estimate of Shear Surface

Point	X	Y
1	12.50	193.00
2	30.00	185.00
3	97.00	182.00
4	141.50	218.00

FOR NEW ESTIMATE OF SHEAR SURFACE
1-Stage Factor of Safety - - - - - - - - 5.626
Side Force Inclination - - - - - - - - - 9.22
Number of Iterations - - - - - - - - - - 1
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TABLE NO. 23
SEARCH TRIAL NUMBER 2

INCREMENTAL SHIFT DISTANCE USED TO COMPUTE DERIVATIVES = 3.50

Point	X	Y	1-Stage Factor of Safety	Side Force Inclination	Iterations
3	95.75	185.27	6.109	73.75	1

The following applies to the above point -
DENOMINATOR IN EQUATIONS FOR F WAS SMALL FOR 22 SLICES

FIRST AND LAST SLICES WHERE DENOMINATOR WAS LOW - 1 22

3	98.25	178.73	See Message on Next Line(s)		

FATAL ERROR IN CALCULATING FACTOR OF SAFETY

SOLUTION DID NOT CONVERGE WITHIN 200 ITERATIONS

4	138.00	218.00	5.770	9.05	1
4	145.00	218.00	See Message on Next Line(s)		

FATAL ERROR IN CALCULATING FACTOR OF SAFETY

SOLUTION DID NOT CONVERGE WITHIN 200 ITERATIONS

Maximum distance shifted for new estimate of shear surface is .000 at point 1

Coordinates For New Estimate of Shear Surface

Point	X	Y
1	12.50	193.00
2	30.00	185.00
3	97.00	182.00
4	141.50	218.00

FOR NEW ESTIMATE OF SHEAR SURFACE
1-Stage Factor of Safety - - - - - - - - 5.626
Side Force Inclination - - - - - - - - - 9.22
Number of Iterations - - - - - - - - - - 1
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TABLE NO. 23
SEARCH TRIAL NUMBER 3

INCREMENTAL SHIFT DISTANCE USED TO COMPUTE DERIVATIVES = 2.00

Point	X	Y	1-Stage Factor of Safety	Side Force Inclination	Iterations
3	96.29	183.87	See Message on Next Line(s)		

FATAL ERROR IN CALCULATING FACTOR OF SAFETY

SOLUTION DID NOT CONVERGE WITHIN 200 ITERATIONS

3	97.71	180.13	6.084	9.18	1
4	139.50	218.00	5.704	9.14	1
4	143.50	218.00	See Message on Next Line(s)		

FATAL ERROR IN CALCULATING FACTOR OF SAFETY

SOLUTION DID NOT CONVERGE WITHIN 200 ITERATIONS

Maximum distance shifted for new estimate of shear surface is .000 at point 1

Coordinates For New Estimate of Shear Surface

Point	X	Y
1	12.50	193.00
2	30.00	185.00
3	97.00	182.00
4	141.50	218.00

FOR NEW ESTIMATE OF SHEAR SURFACE
1-Stage Factor of Safety - - - - - - - - 5.626
Side Force Inclination - - - - - - - - - 9.22
Number of Iterations - - - - - - - - - - 1
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TABLE NO. 23
SEARCH TRIAL NUMBER 4

INCREMENTAL SHIFT DISTANCE USED TO COMPUTE DERIVATIVES = .50

Point	X	Y	1-Stage Factor of Safety	Side Force Inclination	Iterations
3	96.82	182.47	5.522	9.24	1
3	97.18	181.53	5.733	9.21	1
4	141.00	218.00	5.644	9.21	1
4	142.00	218.00	14.945	74.19	1

The following applies to the above point -

```
DENOMINATOR IN EQUATIONS FOR F HAS SMALL FOR  22 SLICES

FIRST AND LAST SLICES WHERE DENOMINATOR WAS LOW -     1    22


Computed shift distances for newly estimated shear surface
factored by  1.000 to prevent over-shift

Maximum distance shifted for new estimate of shear
surface is       .500 at point   3

Coordinates For New Estimate of Shear Surface

     Point       X           Y

        1       12.50       193.00
        2       30.00       185.00
        3       96.82       182.47
        4      141.25       218.00

FOR NEW ESTIMATE OF SHEAR SURFACE
1-Stage Factor of Safety - - - - - - - -   5.531
Side Force Inclination - - - - - - - - -     9.23
Number of Iterations - - - - - - - - - -    1
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TABLE NO. 23
*****************************
* SEARCH TRIAL NUMBER    5 *
*****************************

INCREMENTAL SHIFT DISTANCE USED TO COMPUTE DERIVATIVES =      .50

                                  1-Stage
                                  Factor
                                    of      Side Force
Point        X          Y         Safety   Inclination   Iterations

   3        96.64     182.93    8.908       73.14            1
The following applies to the above point -
DENOMINATOR IN EQUATIONS FOR F HAS SMALL FOR  22 SLICES

FIRST AND LAST SLICES WHERE DENOMINATOR WAS LOW -     1    22

   3        97.00     182.00   10.872       72.92            1
The following applies to the above point -
DENOMINATOR IN EQUATIONS FOR F HAS SMALL FOR  22 SLICES

FIRST AND LAST SLICES WHERE DENOMINATOR WAS LOW -     1    22

   4       140.75     218.00    5.548        9.21            1
   4       141.75     218.00    6.381        4.50            1

Maximum distance shifted for new estimate of shear
surface is       .240 at point   4
```



```
Coordinates For New Estimate of Shear Surface

     Point       X           Y

        1       12.50       193.00
        2       30.00       185.00
        3       96.80       182.52
        4      141.01       218.00

FOR NEW ESTIMATE OF SHEAR SURFACE
1-Stage Factor of Safety - - - - - - - -   5.527
Side Force Inclination - - - - - - - - -     9.22
Number of Iterations - - - - - - - - - -    1
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TABLE NO. 23
*****************************
* SEARCH TRIAL NUMBER    6 *
*****************************

INCREMENTAL SHIFT DISTANCE USED TO COMPUTE DERIVATIVES =      .50

                                  1-Stage
                                  Factor
                                    of      Side Force
Point        X          Y         Safety   Inclination   Iterations

   3        96.62     182.99    8.899       73.20            1
The following applies to the above point -
DENOMINATOR IN EQUATIONS FOR F HAS SMALL FOR  22 SLICES

FIRST AND LAST SLICES WHERE DENOMINATOR WAS LOW -     1    22

   3        96.98     182.85   10.858       72.98            1
The following applies to the above point -
DENOMINATOR IN EQUATIONS FOR F HAS SMALL FOR  22 SLICES

FIRST AND LAST SLICES WHERE DENOMINATOR WAS LOW -     1    22

   4       140.51     218.00    5.545        9.20            1
   4       141.51     218.00 See Message on Next Line(s)
FATAL ERROR IN CALCULATING FACTOR OF SAFETY

SOLUTION DID NOT CONVERGE WITHIN 200 ITERATIONS


Maximum distance shifted for new estimate of shear
surface is       .056 at point   3

Coordinates For New Estimate of Shear Surface

     Point       X           Y

        1       12.50       193.00
```



```
        2       30.00       185.00
        3       96.78       182.57
        4      141.01       218.00

FOR NEW ESTIMATE OF SHEAR SURFACE
1-Stage Factor of Safety - - - - - - - -   5.516
Side Force Inclination - - - - - - - - -     9.22
Number of Iterations - - - - - - - - - -    1
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TABLE NO. 23
*****************************
* SEARCH TRIAL NUMBER    7 *
*****************************

INCREMENTAL SHIFT DISTANCE USED TO COMPUTE DERIVATIVES =      .50

                                  1-Stage
                                  Factor
                                    of      Side Force
Point        X          Y         Safety   Inclination   Iterations

   3        96.60     183.04    8.889       73.21            1
The following applies to the above point -
DENOMINATOR IN EQUATIONS FOR F HAS SMALL FOR  22 SLICES

FIRST AND LAST SLICES WHERE DENOMINATOR WAS LOW -     1    22

   3        96.96     182.11    5.620        9.21            1
   4       140.51     218.00    5.533        9.20            1
   4       141.51     218.00 See Message on Next Line(s)
FATAL ERROR IN CALCULATING FACTOR OF SAFETY

SOLUTION DID NOT CONVERGE WITHIN 200 ITERATIONS


Maximum distance shifted for new estimate of shear
surface is       .235 at point   3

Coordinates For New Estimate of Shear Surface

     Point       X           Y

        1       12.50       193.00
        2       30.00       185.00
        3       96.87       182.35
        4      141.01       218.00

FOR NEW ESTIMATE OF SHEAR SURFACE
1-Stage Factor of Safety - - - - - - - -   5.564
Side Force Inclination - - - - - - - - -     9.21
Number of Iterations - - - - - - - - - -    1
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```



```
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TABLE NO. 25
*****************************************************************
* FINAL CRITICAL SHEAR SURFACE (FOUND AFTER   7 TRIAL POSITIONS) *
*****************************************************************

      X          Y

    12.50     193.00
    30.00     185.00
    96.78     182.57
   141.01     218.00

CAUTION - FACTOR OF SAFETY WAS NOT COMPUTED FOR SOME SHEAR
SURFACES NEAR CRITICAL SURFACE - CHECK PREVIOUS OUTPUT

1-Stage Factor of Safety =   5.516

Side Force Inclination =   9.22
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TABLE NO. 26
*****************************************************************
*  Coordinate, Height, Strength and Pore Water Pressure         *
*  Information for Individual Slices for Conventional           *
*  Computations or First Stage of Multi-Stage Computations.     *
*  (Information is for the Critical Shear Surface in the        *
*  Case of an Automatic Search.)                                *
*****************************************************************

Slice                          Slice   Matl.              Friction    Pore
 No.     X         Y          Height   Type   Cohesion     Angle   Pressure

        12.5      193.0
   1    14.3      192.2        671.4    4   NONLINEAR ENVELOPE          .0
        16.0      191.4
   2    17.8      190.6       2014.2    4   NONLINEAR ENVELOPE          .0
        19.5      189.8
   3    21.3      189.0       3357.0    4   NONLINEAR ENVELOPE          .0
        23.0      188.2
   4    24.8      187.4       4699.8    4   NONLINEAR ENVELOPE
        26.5      186.6
   5    28.3      185.8       6042.5    4   NONLINEAR ENVELOPE
        30.0      185.0
   6    32.1      184.9       8461.6    4   NONLINEAR ENVELOPE          .0
        34.1      184.8
   7    36.2      184.8       9498.8    4   NONLINEAR ENVELOPE          .0
        38.3      184.7
   8    40.4      184.6      10519.9    4   NONLINEAR ENVELOPE          .0
        42.4      184.5
   9    44.5      184.5      11549.1    4   NONLINEAR ENVELOPE          .0
```

	46.6	184.4				
10	48.6	184.3	12578.2	4	NONLINEAR ENVELOPE	.0
	50.7	184.2				
11	52.8	184.2	13607.3	4	NONLINEAR ENVELOPE	.0
	54.9	184.1				
12	56.9	184.0	14636.5	4	NONLINEAR ENVELOPE	.0
	59.0	183.9				
13	60.7	183.9	12462.4	4	NONLINEAR ENVELOPE	.0
	62.4	183.8				
14	64.1	183.8	12518.5	4	NONLINEAR ENVELOPE	.0
	65.8	183.7				
15	67.5	183.6	12574.6	4	NONLINEAR ENVELOPE	.0
	69.2	183.6				
16	71.2	183.5	14621.3	4	NONLINEAR ENVELOPE	.0
	73.1	183.4				
17	75.1	183.4	14653.9	4	NONLINEAR ENVELOPE	.0
	77.1	183.3				
18	79.1	183.2	14686.6	4	NONLINEAR ENVELOPE	.0
	81.0	183.1				
19	83.0	183.1	14719.2	4	NONLINEAR ENVELOPE	.0
	85.0	183.0				
20	86.9	182.9	14751.9	4	NONLINEAR ENVELOPE	.0
	88.9	182.9				

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TABLE NO. 26

```
*****************************************************************
* Coordinate, Weight, Strength and Pore Water Pressure          *
* Information for Individual Slices for Conventional            *
* Computations or First Stage of Multi-Stage Computations.      *
* (Information is for the Critical Shear Surface in the         *
* Case of an Automatic Search.)                                 *
*****************************************************************
```

Slice No.	X	Y	Slice Weight	Matl. Type	Cohesion	Friction Angle	Pore Pressure
	88.9	182.9					
21	90.9	182.8	14784.6	4	NONLINEAR ENVELOPE		.0
	92.8	182.7					
22	94.8	182.6	14817.3	4	NONLINEAR ENVELOPE		.0
	96.8	182.6					
23	97.8	183.4	7547.0	4	NONLINEAR ENVELOPE		.0
	98.8	184.2					
24	99.9	185.0	7136.9	4	NONLINEAR ENVELOPE		.0
	100.9	185.9					
25	102.0	186.7	7046.0	1	.00	33.00	.0
	103.1	187.6					
26	104.1	188.5	6564.7	1	.00	33.00	.0
	105.2	189.3					
27	106.8	190.6	8950.4	2	.00	33.00	.0
	108.5	191.9					
28	110.1	193.2	7950.6	2	.00	33.00	.0
	111.7	194.5					
29	113.4	195.9	7145.0	2	.00	33.00	.0

	115.0	197.2					
30	116.7	198.5	6084.5	2	.00	33.00	.0
	118.4	199.9					
31	120.0	201.2	5023.2	2	.00	33.00	.0
	121.7	202.5					
32	123.2	203.7	3613.5	2	.00	33.00	.0
	124.7	204.9					
33	125.8	205.8	2060.8	2	.00	33.00	.0
	126.8	206.7					
34	127.9	207.5	1619.3	2	.00	33.00	.0
	129.0	208.4					
35	130.4	209.5	1695.2	2	.00	33.00	.0
	131.8	210.6					
36	133.3	211.8	1399.6	2	.00	33.00	.0
	134.7	212.9					
37	136.1	214.1	1104.0	2	.00	33.00	.0
	137.5	215.2					
38	139.0	216.4	575.6	2	.00	33.00	.0
	140.4	217.5					
39	140.7	217.8	16.8	2	.00	33.00	.0
	141.0	218.0					

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White Tanks. Steady-State Drained,
Units lbs-ft ,
By ISG, Date Aug 2004

TABLE NO. 27

```
*****************************************************************
* Seismic Forces and Forces Due to Surface Pressures for        *
* Individual Slices for Conventional Computations or the        *
* First Stage of Multi-Stage Computations.                      *
* (Information is for the Critical Shear Surface in the         *
* Case of an Automatic Search.)                                 *
*****************************************************************
```

FORCES DUE TO SURFACE PRESSURES

Slice No.	X	Seismic Force	Y for Seismic Force	Normal Force	Shear Force	X	Y
1	14.3	0.	193.8	0.	0.	14.3	193.8
2	17.8	0.	193.8	0.	0.	17.8	195.3
3	21.3	0.	193.8	0.	0.	21.3	196.9
4	24.8	0.	193.8	0.	0.	24.8	198.4
5	28.3	0.	193.8	0.	0.	28.3	199.9
6	32.1	0.	193.4	0.	0.	32.1	201.6
7	36.2	0.	194.2	0.	0.	36.2	203.5
8	40.4	0.	195.1	0.	0.	40.4	205.3
9	44.5	0.	195.9	0.	0.	44.5	207.1
10	48.6	0.	196.8	0.	0.	48.6	208.9
11	52.8	0.	197.6	0.	0.	52.8	210.8
12	56.9	0.	198.4	0.	0.	56.9	212.6
13	60.7	0.	198.8	0.	0.	60.7	213.5
14	64.1	0.	198.7	0.	0.	64.1	213.5
15	67.5	0.	198.7	0.	0.	67.5	213.5
16	71.2	0.	198.6	0.	0.	71.2	213.5
17	75.1	0.	198.5	0.	0.	75.1	213.5
18	79.1	0.	198.4	0.	0.	79.1	213.5

19	83.0	0.	198.3	0.	0.	83.0	213.6
20	86.9	0.	198.2	0.	0.	86.9	213.6
21	90.9	0.	198.1	0.	0.	90.9	213.6
22	94.8	0.	198.1	0.	0.	94.8	213.6
23	97.8	0.	198.4	0.	0.	97.8	213.6
24	99.9	0.	199.3	0.	0.	99.9	213.7
25	102.0	0.	200.1	0.	0.	102.0	213.7
26	104.1	0.	201.0	0.	0.	104.1	213.7
27	106.8	0.	202.2	0.	0.	106.8	213.7
28	110.1	0.	203.5	0.	0.	110.1	213.7
29	113.4	0.	204.8	0.	0.	113.4	213.7
30	116.7	0.	206.1	0.	0.	116.7	213.7
31	120.0	0.	207.5	0.	0.	120.0	213.8
32	123.2	0.	208.8	0.	0.	123.2	213.8
33	125.8	0.	209.8	0.	0.	125.8	213.8
34	127.9	0.	210.7	0.	0.	127.9	213.8
35	130.4	0.	212.0	0.	0.	130.4	214.5
36	133.3	0.	213.8	0.	0.	133.3	215.9
37	136.1	0.	215.7	0.	0.	136.1	217.3
38	139.0	0.	217.2	0.	0.	139.0	218.0
39	140.7	0.	217.9	0.	0.	140.7	218.0

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Units lbs-ft ,
By ISG, Date Aug 2004

TABLE NO. 29

```
*****************************************************************
* Information Generated During Iterative Solution for the Factor *
* of Safety and Side Force Inclination by Spencer's Procedure    *
*****************************************************************
```

Iter-ation	Trial Factor of Safety	Trial Side Force Inclination (degrees)	Force Imbalance (lbs.)	Moment Imbalance (ft.-lbs.)	Delta-F	Delta Theta (degrees)
1	3.00000	15.0000	-.3689E+05	.6204E+07		
First-order corrections to F and THETA					.183E+01	.824E+01
Values factored by .274E+00 - Deltas too large					.500E+00	.226E+01
2	3.50000	17.2555	-.2844E+05	.4800E+07		
First-order corrections to F and THETA					.272E+01	.228E+02
Values factored by .184E+00 - Deltas too large					.500E+00	.419E+01
3	4.00000	21.4476	-.2431E+05	.4127E+07		
First-order corrections to F and THETA					.569E+01	.596E+02
Values factored by .879E-01 - Deltas too large					.500E+00	.523E+01
4	4.50000	26.6800	-.2310E+05	.3912E+07		
First-order corrections to F and THETA					.115E+02	.105E+03
Values factored by .436E-01 - Deltas too large					.500E+00	.459E+01
5	5.00000	31.2752	-.2288E+05	.3852E+07		
First-order corrections to F and THETA					.228E+02	.171E+03
Values factored by .219E-01 - Deltas too large					.500E+00	.374E+01
6	5.50000	35.0189	-.2304E+05	.3852E+07		

First-order corrections to F and THETA					.538E+02	.326E+03
Values factored by .929E-02 - Deltas too large					.500E+00	.303E+01
7	6.00000	38.0452	-.2338E+05	.3882E+07		
First-order corrections to F and THETA					.316E+03	.155E+04
Values factored by .158E-02 - Deltas too large					.500E+00	.246E+01
8	6.50000	40.5046	-.2381E+05	.3928E+07		
First-order corrections to F and THETA					-.159E+03	-.640E+03
Values factored by .315E-02 - Deltas too large					-.500E+00	-.202E+01
9	6.00000	38.4874	-.2412E+05	.3961E+07		
First-order corrections to F and THETA					.139E+03	.660E+03
Values factored by .361E-02 - Deltas too large					.500E+00	.238E+01
10	6.50000	40.8696	-.2450E+05	.3998E+07		
First-order corrections to F and THETA					-.287E+03	-.113E+04
Values factored by .174E-02 - Deltas too large					-.500E+00	-.196E+01
11	6.00000	38.9062	-.2485E+05	.4036E+07		
First-order corrections to F and THETA					.931E+02	.430E+03
Values factored by .537E-02 - Deltas too large					.500E+00	.231E+01
12	6.50000	41.2175	-.2518E+05	.4066E+07		
First-order corrections to F and THETA					-.104E+04	-.398E+04
Reduced values - Deltas were too large					-.500E+00	-.859E+01
13	6.00000	32.6232	-.1581E+05	.2992E+07		
First-order corrections to F and THETA					-.117E+02	-.851E+02
Values factored by .427E-01 - Deltas too large					-.500E+00	-.364E+01
14	5.50000	28.9865	-.1561E+05	.2924E+07		
First-order corrections to F and THETA					-.837E+01	-.801E+02
Values factored by .597E-01 - Deltas too large					-.500E+00	-.478E+01
15	5.00000	24.2047	-.1529E+05	.2827E+07		
First-order corrections to F and THETA					-.432E+01	-.604E+02
Values factored by .116E+00 - Deltas too large					-.500E+00	-.699E+01
16	4.50000	17.2168	-.1436E+05	.2602E+07		
First-order corrections to F and THETA					-.481E+00	-.247E+02
Values factored by .348E+00 - Deltas too large					-.167E+00	-.859E+01
17	4.33270	8.6224	-.9895E+04	.1689E+07		
First-order corrections to F and THETA					.955E+00	.999E+00
Values factored by .523E+00 - Deltas too large					.500E+00	.523E+00
18	4.83270	9.1456	-.5283E+04	.9074E+06		
First-order corrections to F and THETA					.600E+00	.989E-01
Values factored by .833E+00 - Deltas too large					.500E+00	.824E-01
19	5.33270	9.2280	-.1380E+04	.2241E+06		
First-order corrections to F and THETA					.177E+00	-.525E-02
Second-order correction - Iteration 1					.183E+00	-.498E-02
Second-order correction - Iteration 2					.184E+00	-.470E-02
20	5.51623	9.2233	.1554E+01	-.2560E+03		
First-order corrections to F and THETA					-.253E-03	-.266E-03
Second-order correction - Iteration 1					-.224E-03	.383E-04
Second-order correction - Iteration 2					-.200E-03	.282E-03

```
Second-order correction - Iteration   3 ........  -.172E-03  .572E-03
Second-order correction - Iteration   4 ........  -.144E-03  .864E-03
Second-order correction - Iteration   5 ........  -.116E-03  .116E-02
Second-order correction - Iteration   6 ........  -.873E-04  .145E-02
Second-order correction - Iteration   7 ........  -.589E-04  .175E-02
Second-order correction - Iteration   8 ........  -.307E-04  .204E-02
Second-order correction - Iteration   9 ........  -.273E-05  .233E-02
Second-order correction - Iteration  10 ........   .191E-04  .256E-02
SECOND-ORDER CORRECTIONS DID NOT CONVERGE
IN  10 ITERATIONS - FIRST-ORDER CORRECTIONS
USED

  21   5.51598     9.2230  -.9403E-03   .1285E+01
First-order corrections to F and THETA .........  -.232E-05 -.255E-04

For trial number  2 with a nonlinear strength envelope the maximum
percent change in shear strength was      .000 - at slice   1
Material:  4     Normal stress:        222.815
Strength from previous trial:        128.653
Estimated strength for new trial:        128.653

TABLE NO. 29
*****************************************************************
*  Information Generated During Iterative Solution for the Factor  *
*  of Safety and Side Force Inclination by Spencer's Procedure     *
*****************************************************************

        Trial     Trial
       Factor    Side Force    Force      Moment                  Delta
Iter-   of       Inclination  Imbalance  Imbalance   Delta-F      Theta
ation  Safety    (degrees)    (lbs.)     (ft.-lbs.)              (degrees)

   1   5.51598     9.2230  -.9403E-03   .1285E+01
First-order corrections to F and THETA .........  -.232E-05 -.255E-04

Factor of Safety - - - - - - - -      5.516
Side Force Inclination - - - - -       9.22
Number of Iterations - - - - - -      1
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TABLE NO. 38
*****************************************************************
*  Final Results for Stresses Along the Shear Surface              *
*  (Results for Critical Shear Surface in Case of a Search.)       *
*****************************************************************

SPENCER'S PROCEDURE USED TO COMPUTE FACTOR OF SAFETY
Factor of Safety =  5.516      Side Force Inclination =   9.22 Degrees

        -------- VALUES AT CENTER OF BASE OF SLICE---------

                                  Total     Effective
Slice                             Normal    Normal      Shear
 No.   X-center  Y-center         Stress    Stress      Stress
```


Slice No.	X-center	Y-center	Total Normal Stress	Effective Normal Stress	Shear Stress
1	14.3	192.2	222.8	222.8	23.3
2	17.8	190.6	668.4	668.4	70.0
3	21.3	189.0	1114.1	1114.1	116.6
4	24.8	187.4	1559.7	1559.7	163.3
5	28.3	185.8	2005.3	2005.3	209.9
6	32.1	184.9	2098.5	2098.5	219.7
7	36.2	184.8	2353.7	2353.7	246.4
8	40.4	184.6	2609.0	2609.0	273.1
9	44.5	184.5	2864.2	2864.2	299.8
10	48.6	184.3	3119.4	3119.4	326.5
11	52.8	184.2	3374.7	3374.7	353.3
12	56.9	184.0	3629.9	3629.9	380.0
13	60.7	183.9	3766.0	3766.0	394.2
14	64.1	183.8	3782.9	3782.9	396.0
15	67.5	183.6	3799.9	3799.9	397.8
16	71.2	183.5	3812.6	3812.6	399.1
17	75.1	183.4	3821.1	3821.1	400.0
18	79.1	183.2	3829.7	3829.7	400.9
19	83.0	183.1	3838.2	3838.2	401.8
20	86.9	182.9	3846.7	3846.7	402.7
21	90.9	182.8	3855.2	3855.2	403.6
22	94.8	182.6	3863.7	3863.7	404.4
23	97.8	183.4	3062.1	3062.1	320.5
24	99.9	185.0	2895.8	2895.8	303.1
25	102.8	186.7	2700.7	2700.7	318.0
26	104.1	188.5	2516.0	2516.0	296.2
27	106.8	190.6	2295.4	2295.4	270.2
28	110.1	193.2	2039.0	2039.0	240.1
29	113.4	195.9	1778.7	1778.7	209.4
30	116.7	198.5	1514.5	1514.5	178.3
31	120.0	201.2	1250.3	1250.3	147.2
32	123.2	203.7	999.4	999.4	117.7
33	125.8	205.8	795.3	795.3	93.6
34	127.9	207.5	624.9	624.9	73.6
35	130.4	209.5	496.4	496.4	58.4
36	133.3	211.8	409.9	409.9	48.3
37	136.1	214.1	323.3	323.3	38.1
38	139.0	216.4	163.6	163.6	19.3
39	140.7	217.8	23.6	23.6	2.8

```
CHECK SUMS - (ALL SHOULD BE SMALL)
SUM OF FORCES IN VERTICAL DIRECTION    =        .01  (=  .605E-02)
     SHOULD NOT EXCEED      .100E+03
SUM OF FORCES IN HORIZONTAL DIRECTION  =        .01  (=  .144E-01)
     SHOULD NOT EXCEED      .100E+03
SUM OF MOMENTS ABOUT COORDINATE ORIGIN =       -.47  (= -.467E+00)
     SHOULD NOT EXCEED      .100E+03
SHEAR STRENGTH/SHEAR FORCE CHECK-SUM   =        .00  (=  .204E-02)
     SHOULD NOT EXCEED      .100E+03
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TABLE NO. 39
*****************************************************************
*  Final Results for Side Forces and Stresses Between Slices.      *
```



```
*  (Results for Critical Shear Surface in Case of a Search.)       *
*****************************************************************

SPENCER'S PROCEDURE USED TO COMPUTE FACTOR OF SAFETY
Factor of Safety =  5.516      Side Force Inclination =   9.22 Degrees

        ---------------- VALUES AT RIGHT SIDE OF SLICE ----------------
```

Slice No.	X-Right	Side Force	Y-Coord. of Side Force Location	Fraction of Height	Sigma at Top	Sigma at Bottom
1	16.0	444.	192.5	.345	9.7	269.1
2	19.5	1776.	191.4	.259	-124.8	682.4
3	23.0	3995.	190.5	.243	-227.3	1063.7
4	26.5	7102.	189.6	.237	-321.8	1437.0
5	30.0	11097.	188.7	.235	-413.1	1807.1
6	34.1	12339.	188.9	.232	-420.3	1797.2
7	38.3	13732.	189.2	.227	-440.1	1818.4
8	42.4	15277.	189.3	.221	-467.7	1860.9
9	46.6	16972.	189.5	.216	-500.3	1918.6
10	50.7	18818.	189.6	.210	-536.3	1987.5
11	54.9	20816.	189.7	.205	-574.7	2064.8
12	59.0	22965.	189.8	.200	-614.7	2148.7
13	62.4	24794.	189.9	.206	-629.2	2278.5
14	65.8	26632.	190.0	.213	-636.7	2400.8
15	69.2	28478.	190.2	.220	-637.3	2516.0
16	73.1	30624.	190.3	.229	-630.0	2639.3
17	77.1	32775.	190.5	.238	-613.7	2752.6
18	81.0	34931.	190.7	.247	-588.8	2856.1
19	85.0	37092.	190.8	.256	-555.4	2950.2
20	88.9	39257.	191.0	.265	-513.9	3035.1
21	92.8	41428.	191.2	.275	-464.5	3111.0
22	96.8	43603.	191.4	.284	-407.4	3178.2
23	98.8	39155.	192.7	.287	-364.8	2991.6
24	100.9	34949.	193.9	.290	-319.9	2802.8
25	103.1	30901.	195.3	.294	-278.9	2619.4
26	105.2	27131.	196.6	.297	-237.6	2438.8
27	108.5	21991.	198.6	.304	-174.1	2168.6
28	111.7	17424.	200.5	.314	-105.5	1897.9
29	115.0	13320.	202.6	.328	-27.8	1617.1
30	118.4	9826.	204.7	.349	63.6	1333.4
31	121.7	6941.	206.8	.381	174.5	1045.5
32	124.7	4865.	208.7	.427	306.6	779.5
33	126.8	3682.	210.1	.477	439.8	580.1
34	129.0	2752.	211.3	.543	631.7	370.4
35	131.8	1778.	212.9	.495	374.8	396.5
36	134.7	974.	214.5	.423	140.9	381.5
37	137.5	340.	216.2	.344	7.4	231.4
38	140.4	10.	217.8	.570	28.6	11.6
39	141.0	0.	-632.8	BELOW	.0	.0

```
CHECK SUMS - (ALL SHOULD BE SMALL)
SUM OF FORCES IN VERTICAL DIRECTION    =        .01  (=  .605E-02)
     SHOULD NOT EXCEED      .100E+03
SUM OF FORCES IN HORIZONTAL DIRECTION  =        .01  (=  .144E-01)
     SHOULD NOT EXCEED      .100E+03
SUM OF MOMENTS ABOUT COORDINATE ORIGIN =       -.47  (= -.467E+00)
     SHOULD NOT EXCEED      .100E+03
```



```
SHEAR STRENGTH/SHEAR FORCE CHECK-SUM   =        .00  (=  .204E-02)
     SHOULD NOT EXCEED      .100E+03

END-OF-FILE ENCOUNTERED WHILE READING COMMAND
WORDS - END OF PROBLEM(S) ASSUMED
```

```
HEADING
 White Tanks. Steady-State Drained,
 Units lbs-ft ,
 By ISG, Date Aug 2004
Profile Lines
1   1   Existing Dam
12.5    193
59      213.5
69.2    213.5
111.7   185

2   2   Common Fill - Downstream
69.2    213.5
129     213.8
137.5   218
141.5   218

3   3   Soil Cement
121.7   185
141.5   218
151.5   218
171.3   185

4   4   Foundation
-20     190
12.5    193
111.7   185
121.7   185
171.3   185
225.5   183
260     182


Material Properties
1    Existing Dam
  125
  Conventional Shear
  0    33
  Piezometric Line
  1
2    Common Fill
  120
  Conventional Shear
  0    33
  Piezometric Line
  1
3    Soil Cement
  135
  Conventional Shear
  72000    0
  Piezometric Line
  1
4    Foundation
  118
  Nonlinear
 -5000    0
  0       0
  10000   5774

  Piezometric Line
  1

Piezometric Line
1   62.4
-20      155
121.7    165
124.7    175
140.42   204.2
144.85   209.82
152.7    216
250      216


Surface Pressures
152.7   216     0        0
171.3   185     1934.4   0
225.5   183     2059.2   0
260     182     2121.6   0

Analysis and Computations
circular search
60   275   5   170
Point
80   210
STOP
iterations
200

Plot
compute
```


K&J 4PRINT

```
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        TABLE NO. 1
        ****************************************
        * COMPUTER PROGRAM DESIGNATION - UTEXAS3 *
        * Originally Coded By Stephen G. Wright  *
        * Version No. 1.208                      *
        * Last Revision Date  2/22/98            *
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        ****************************************

        ************************************************************
        *                                                          *
        *      RESULTS OF COMPUTATIONS PERFORMED USING THIS COMPUTER *
        * PROGRAM SHOULD NOT BE USED FOR DESIGN PURPOSES UNLESS THEY *
        * HAVE BEEN VERIFIED BY INDEPENDENT ANALYSES, EXPERIMENTAL   *
        * DATA OR FIELD EXPERIENCE. THE USER SHOULD UNDERSTAND THE   *
        * ALGORITHMS AND ANALYTICAL PROCEDURES USED IN THE COMPUTER  *
        * PROGRAM AND MUST HAVE READ ALL DOCUMENTATION FOR THIS      *
        * PROGRAM BEFORE ATTEMPTING ITS USE.                         *
        *                                                            *
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        * MAKE OR ASSUME LIABILITY FOR ANY WARRANTIES, EXPRESSED OR  *
        * IMPLIED, CONCERNING THE ACCURACY, RELIABILITY, USEFULNESS  *
        * OR ADAPTABILITY OF THIS COMPUTER PROGRAM.                  *
        *                                                            *
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        TABLE NO.  2
        ************************
        * NEW PROFILE LINE DATA *
        ************************

        PROFILE LINE  1 - MATERIAL TYPE =  1
        Existing Dam

             Point      X            Y

               1       12.500      193.000
               2       59.000      213.500
               3       69.200      213.500
               4      111.700      185.000

        PROFILE LINE  2 - MATERIAL TYPE =  2
        Common Fill - Downstream

             Point      X            Y

               1       69.200      213.500
               2      129.000      213.000
```



```
               3      137.500      218.000
               4      141.500      218.000

        PROFILE LINE  3 - MATERIAL TYPE =  3
        Soil Cement

             Point      X            Y

               1      121.700      185.000
               2      141.500      218.000
               3      151.500      218.000
               4      171.300      185.000

        PROFILE LINE  4 - MATERIAL TYPE =  4
        Foundation

             Point      X            Y

               1      -20.000      190.000
               2       12.500      193.000
               3      111.700      185.000
               4      121.700      185.000
               5      171.300      185.000
               6      225.500      183.000
               7      260.000      182.000

        All new profile lines defined - No old lines retained
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        TABLE NO.  3
        ************************************************************
        * NEW MATERIAL PROPERTY DATA - CONVENTIONAL/FIRST-STAGE COMPUTATIONS *
        ************************************************************

        DATA FOR MATERIAL TYPE  1
        Existing Dam

             Unit weight of material =  125.000

             CONVENTIONAL (ISOTROPIC) SHEAR STRENGTHS
             Cohesion - - - - - - - -          .000
             Friction angle - - - - -  33.000 degrees

             Pore water pressures defined by piezometric line
             Number of the piezometric line used =  1
             Negative pore pressures set to zero

        DATA FOR MATERIAL TYPE  2
        Common Fill

             Unit weight of material =  120.000

             CONVENTIONAL (ISOTROPIC) SHEAR STRENGTHS
```



```
             Pore water pressures defined by piezometric line
             Number of the piezometric line used =  1
             Negative pore pressures set to zero

        DATA FOR MATERIAL TYPE  3
        Soil Cement

             Unit weight of material =  135.000

             CONVENTIONAL (ISOTROPIC) SHEAR STRENGTHS
             Cohesion - - - - - - - -   72000.000
             Friction angle - - - - -     .000 degrees

             Pore water pressures defined by piezometric line
             Number of the piezometric line used =  1
             Negative pore pressures set to zero

        DATA FOR MATERIAL TYPE  4
        Foundation

             Unit weight of material =  118.000

             ---- NONLINEAR SHEAR STRENGTH ENVELOPE ----
             Point     Normal Stress     Shear Stress

               1          -5000.000            .000
               2               .000            .000
               3          10000.000         5774.000

             Pore water pressures defined by piezometric line
             Number of the piezometric line used =  1
             Negative pore pressures set to zero

        All new material properties defined - No old data retained
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        TABLE NO.  5
        ************************************************************
        * NEW PIEZOMETRIC LINE DATA - CONVENTIONAL/FIRST-STAGE COMPUTATIONS *
        ************************************************************

        Line
         No.    Point       X            Y

         1 - Unit weight of water =   62.40
         1        1     -20.000      155.000
         1        2     121.700      165.000
         1        3     124.700      175.000
         1        4     140.420      204.200
         1        5     144.850      209.820
         1        6     152.700      216.000
         1        7     250.000      216.000

        All new piezometric lines defined - No old lines retained
```



```
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        TABLE NO. 10
        ************************************************************
        * NEW SURFACE PRESSURE DATA - CONVENTIONAL/FIRST-STAGE COMPUTATIONS *
        ************************************************************

        ALL NEW DATA INPUT - NO OLD DATA RETAINED

        Surface Pressures -
                                                Normal       Shear
        Point        X            Y           Pressure     Stress

           1      152.700      216.000          .000         .000
           2      171.300      185.000      1934.400         .000
           3      225.500      183.000      2059.200         .000
           4      260.000      182.000      2121.600         .000
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        TABLE NO. 15
        ****************************
        * NEW ANALYSIS/COMPUTATION DATA *
        ****************************

        Circular Shear Surface(s)

        Automatic Search Performed

        Starting Center Coordinate for Search at -
                                                        X =      60.000
                                                        Y =     275.000

        Required accuracy for critical center (= minimum
        spacing between grid points) =        5.000

        Critical shear surface not allowed to pass below Y =     170.000

        For the initial mode of search
        all circles pass through the point at -
                                                        X =      80.000
                                                        Y =     210.000

        Search terminated after initial mode completed

        Maximum number of iterations allowed for
        calculating the factor of safety =  200
```

THE FOLLOWING REPRESENT EITHER DEFAULT OR PREVIOUSLY DEFINED VALUES:

Cohesion - - - - - - - - .000
Friction angle - - - - - 33.000 degrees

Initial trial estimate for the factor of safety = 3.000

Initial trial estimate for side force inclination = 15.000 degrees
(Applicable to Spencer's procedure only)

Allowed force imbalance for convergence = 100.000

Allowed moment imbalance for convergence = 100.000

Initial trial values for factor of safety (and side force inclination for Spencer's procedure) will be kept constant during search

Maximum subtended angle to be used for subdivision of the circle into slices = 3.00 degrees

Depth of crack = .000

Depth of water in crack = .000

Unit weight of water in crack = 62.400

Seismic coefficient = .000

Conventional (single-stage) computations to be performed

Procedure used to compute the factor of safety: SPENCER

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TABLE NO. 16
****
* NEW SLOPE GEOMETRY DATA *
****

NOTE - NO DATA WERE INPUT, SLOPE GEOMETRY DATA WERE GENERATED BY THE PROGRAM

Slope Coordinates -

Point	X	Y
1	-20.000	190.000
2	12.500	193.000
3	59.000	213.500
4	69.200	213.500
5	129.000	213.800
6	137.500	218.000
7	141.500	218.000
8	151.500	218.000
9	171.300	185.000
10	225.500	183.000
11	260.000	182.000

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TABLE NO. 17
INFORMATION FOR CURRENT MODE OF SEARCH - All Circles Pass Through the Fixed Point at X = 80.000 and Y = 210.000

Center Coordinates X	Y	Radius	1-Stage Factor of Safety	Side Force Inclination (degrees)	Iterations
-90.00	125.00	190.07	Center of circle is below lowest point of slope - CIRCLE REJECTED		
60.00	125.00	87.32	Center of circle is below lowest point of slope - CIRCLE REJECTED		
210.00	125.00	155.32	Center of circle is below lowest point of slope - CIRCLE REJECTED		
-90.00	275.00	182.00	Bottom of circle exceeds allowable depth - CIRCLE REJECTED		
60.00	275.00	68.01	6.603	6.51	41
210.00	275.00	145.34	Bottom of circle exceeds allowable depth - CIRCLE REJECTED		
-90.00	425.00	274.09	Bottom of circle exceeds allowable depth - CIRCLE REJECTED		
60.00	425.00	215.93	See Message on Next Line(s)		

Last Trial Values = 10.441 49.62 201
(Last Trial Values Shown Above Are Not Correct Final Values)
FATAL ERROR IN CALCULATING FACTOR OF SAFETY

SOLUTION DID NOT CONVERGE WITHIN 200 ITERATIONS

210.00	425.00	251.25	See Message on Next Line(s)		

CIRCLE DOES NOT INTERSECT SLOPE

35.00	250.00	60.21	2.450	14.73	1
60.00	250.00	44.72	5.722	73.72	82

Message on the following line(s) applies to the above circle
DENOMINATOR IN EQUATIONS FOR F WAS SMALL FOR 8 SLICES

FIRST AND LAST SLICES WHERE DENOMINATOR WAS LOW - 1 8

85.00	250.00	40.31	See Message on Next Line(s)		

Last Trial Values = 103.000 26.34 201
(Last Trial Values Shown Above Are Not Correct Final Values)
FATAL ERROR IN CALCULATING FACTOR OF SAFETY

SOLUTION DID NOT CONVERGE WITHIN 200 ITERATIONS

35.00	275.00	79.06	2.617	14.03	3
85.00	275.00	65.19	See Message on Next Line(s)		

Last Trial Values = 103.000 31.04 201
(Last Trial Values Shown Above Are Not Correct Final Values)
FATAL ERROR IN CALCULATING FACTOR OF SAFETY

SOLUTION DID NOT CONVERGE WITHIN 200 ITERATIONS

35.00	300.00	100.62	2.857	12.94	3

60.00	300.00	92.20	See Message on Next Line(s)		

Last Trial Values = 8.485 63.01 201
(Last Trial Values Shown Above Are Not Correct Final Values)
FATAL ERROR IN CALCULATING FACTOR OF SAFETY

SOLUTION DID NOT CONVERGE WITHIN 200 ITERATIONS

85.00	300.00	90.14	See Message on Next Line(s)		

Last Trial Values = 103.000 34.75 201
(Last Trial Values Shown Above Are Not Correct Final Values)
FATAL ERROR IN CALCULATING FACTOR OF SAFETY

SOLUTION DID NOT CONVERGE WITHIN 200 ITERATIONS

10.00	225.00	71.59	Bottom of circle exceeds allowable depth - CIRCLE REJECTED		
35.00	225.00	47.43	2.071	11.90	1
60.00	225.00	25.00	5.689	42.87	74

Message on the following line(s) applies to the above circle
DENOMINATOR IN EQUATIONS FOR F WAS SMALL FOR 4 SLICES

FIRST AND LAST SLICES WHERE DENOMINATOR WAS LOW - 1 4

10.00	250.00	80.62	Bottom of circle exceeds allowable depth - CIRCLE REJECTED		
10.00	275.00	95.52	See Message on Next Line(s)		

CIRCLE DOES NOT INTERSECT SLOPE

20.00	235.00	65.00	See Message on Next Line(s)		

CIRCLE DOES NOT INTERSECT SLOPE

35.00	235.00	51.48	2.533	13.68	1
50.00	235.00	39.05	3.476	11.55	7
20.00	250.00	72.11	2.548	11.89	1
50.00	250.00	50.00	3.451	11.34	5
20.00	265.00	81.39	2.384	13.31	1
35.00	265.00	71.06	2.564	14.38	4
50.00	265.00	62.65	3.658	10.67	5
5.00	250.00	85.00	Bottom of circle exceeds allowable depth - CIRCLE REJECTED		
5.00	265.00	93.01	See Message on Next Line(s)		

CIRCLE DOES NOT INTERSECT SLOPE

5.00	280.00	102.59	See Message on Next Line(s)		

CIRCLE DOES NOT INTERSECT SLOPE

20.00	280.00	92.20	2.212	14.70	1
35.00	280.00	83.22	2.655	13.83	3
5.00	295.00	113.36	See Message on Next Line(s)		

CIRCLE DOES NOT INTERSECT SLOPE

20.00	295.00	104.04	2.240	15.73	1
35.00	295.00	96.10	2.801	13.17	3
15.00	275.00	91.92	2.330	12.85	1
20.00	275.00	88.46	2.229	14.24	1

25.00	275.00	85.15	2.242	15.56	1
15.00	280.00	95.52	2.285	13.23	1
25.00	280.00	89.02	2.272	15.72	1
15.00	285.00	99.25	2.252	13.62	1
20.00	285.00	96.05	2.209	15.13	1
25.00	285.00	93.01	2.323	15.59	1
15.00	290.00	103.08	2.228	14.03	1
20.00	290.00	100.00	2.218	15.50	1
25.00	290.00	97.08	2.368	15.26	4

At the end of the current mode of search the most critical circle which was found has the following values -
X-center = 20.00 Y-center = 285.00 Radius = 96.05
Factor of Safety = 2.209 Side Force Inclination = 15.13

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TABLE NO. 21
***** 1-STAGE FINAL CRITICAL CIRCLE INFORMATION *****
X Coordinate of Center - - - - - - - - 20.000
Y Coordinate of Center - - - - - - - - 285.000
Radius - - - - - - - - - - - - - - - - 96.047
Factor of Safety - - - - - - - - - - - 2.209
Side Force Inclination - - - - - - - - 15.13

Number of circles tried - - - - - - - 49
No. of circles F calc. for - - - - - - 29

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TABLE NO. 26
****
* Coordinate, Weight, Strength and Pore Water Pressure *
* Information for Individual Slices for Conventional *
* Computations or First Stage of Multi-Stage Computations. *
* (Information is for the Critical Shear Surface in the *
* Case of an Automatic Search.) *
****

Slice No.	X	Y	Slice Weight	Matl. Type	Cohesion	Friction Angle	Pore Pressur
	-2.5	191.6					
1	.0	191.1	435.8	4	NONLINEAR	ENVELOPE	.0
	2.4	190.6					
2	4.9	190.2	1245.7	4	NONLINEAR	ENVELOPE	.0
	7.4	189.8					
3	9.9	189.5	1914.4	4	NONLINEAR	ENVELOPE	.0
	12.4	189.3					
4	12.5	189.2	37.2	4	NONLINEAR	ENVELOPE	.0
	12.5	189.2					

5	15.0	189.1	3003.5	4	NONLINEAR ENVELOPE		.0
	17.5	189.0					
6	18.8	189.0	2042.7	4	NONLINEAR ENVELOPE		.0
	20.0	189.0					
7	22.5	189.0	5163.6	4	NONLINEAR ENVELOPE		.0
	25.0	189.1					
8	27.5	189.3	6394.7	4	NONLINEAR ENVELOPE		.0
	30.0	189.5					
9	32.5	189.8	7430.0	4	NONLINEAR ENVELOPE		.0
	35.0	190.1					
10	37.0	190.5	6671.6	4	NONLINEAR ENVELOPE		.0
	39.0	190.9					
11	41.5	191.4	8796.4	1	.00	33.00	.0
	43.9	192.0					
12	46.4	192.7	9218.4	1	.00	33.00	.0
	48.8	193.4					
13	51.2	194.2	9429.6	1	.00	33.00	.0
	53.5	195.0					
14	55.9	195.9	9434.9	1	.00	33.00	.0
	58.2	196.9					
15	58.6	197.1	1630.8	1	.00	33.00	.0
	59.0	197.2					
16	61.3	198.3	8621.7	1	.00	33.00	.0
	63.5	199.4					
17	65.8	200.6	7135.8	1	.00	33.00	.0
	68.0	201.8					
18	68.6	202.1	1758.0	1	.00	33.00	.0
	69.2	202.5					
19	71.3	203.9	5098.5	1	.00	33.00	.0
	73.4	205.2					
20	75.4	206.6	3345.9	1	.00	33.00	.0
	77.4	208.0					

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TABLE NO. 26
****
* Coordinate, Weight, Strength and Pore Water Pressure *
* Information for Individual Slices for Conventional *
* Computations or First Stage of Multi-Stage Computations. *
* (Information is for the Critical Shear Surface in the *
* Case of an Automatic Search.) *
****

Slice No.	X	Y	Slice Weight	Matl. Type	Cohesion	Friction Angle	Pore Pressure
	77.4	208.0					
21	79.4	209.6	1896.3	2	.00	33.00	.0
	81.4	211.1					
22	82.8	212.3	420.7	2	.00	33.00	.0
	84.2	213.6					

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TABLE NO. 27
****
* Seismic Forces and Forces Due to Surface Pressures for *
* Individual Slices for Conventional Computations or the *
* First Stage of Multi-Stage Computations. *
* (Information is for the Critical Shear Surface in the *
* Case of an Automatic Search.) *
****

				FORCES DUE TO SURFACE PRESSURES			
Slice No.	X	Seismic Force	Y for Seismic Force	Normal Force	Shear Force	X	Y
1	.0	0.	191.5	0.	0.	.0	191.8
2	4.9	0.	191.2	0.	0.	4.9	192.3
3	9.9	0.	191.1	0.	0.	9.9	192.8
4	12.5	0.	191.1	0.	0.	12.5	193.0
5	15.0	0.	191.6	0.	0.	15.0	194.1
6	18.8	0.	192.4	0.	0.	18.8	195.8
7	22.5	0.	193.3	0.	0.	22.5	197.4
8	27.5	0.	194.5	0.	0.	27.5	199.6
9	32.5	0.	195.9	0.	0.	32.5	201.8
10	37.0	0.	197.2	0.	0.	37.0	203.8
11	41.5	0.	198.6	0.	0.	41.5	205.8
12	46.4	0.	200.3	0.	0.	46.4	207.9
13	51.2	0.	202.1	0.	0.	51.2	210.0
14	55.9	0.	204.0	0.	0.	55.9	212.1
15	58.6	0.	205.2	0.	0.	58.6	213.3
16	61.3	0.	205.9	0.	0.	61.3	213.5
17	65.8	0.	207.0	0.	0.	65.8	213.5
18	68.6	0.	207.8	0.	0.	68.6	213.5
19	71.3	0.	208.7	0.	0.	71.3	213.5
20	75.4	0.	210.0	0.	0.	75.4	213.5
21	79.4	0.	211.6	0.	0.	79.4	213.6
22	82.8	0.	213.0	0.	0.	82.8	213.6

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TABLE NO. 29
****
* Information Generated During Iterative Solution for the Factor *
* of Safety and Side Force Inclination by Spencer's Procedure *
****

Iter-ation	Trial Factor of Safety	Trial Side Force Inclination (degrees)	Force Imbalance (lbs.)	Moment Imbalance (ft.-lbs.)	Delta-F	Delta Theta (degrees)
1	3.00000	15.0000	.7501E+04	-.1322E+07		

First-order corrections to F and THETA .... -.107E+01 .476E-01
Values factored by .465E+00 - Deltas too large -.500E+00 .221E-01

2 2.50000 15.0221 .3314E+04 -.5041E+06
First-order corrections to F and THETA .... -.330E+00 .615E-01
Second-order correction - Iteration 1 .... -.295E+00 .616E-01
Second-order correction - Iteration 2 .... -.295E+00 .618E-01
Second-order correction - Iteration 3 .... -.295E+00 .619E-01

3 2.20506 15.0840 -.4684E+02 .7913E+04
First-order corrections to F and THETA .... .391E-02 .487E-01
Second-order correction - Iteration 1 .... .392E-02 .489E-01
Second-order correction - Iteration 2 .... .392E-02 .490E-01

4 2.20898 15.1330 .4120E-03 .5186E+01
First-order corrections to F and THETA .... -.446E-05 -.771E-03

For trial number 2 with a nonlinear strength envelope the maximum
percent change in shear strength was .000 - at slice 3
Material: 4 Normal stress: 438.451
Strength from previous trial: 253.161
Estimated strength for new trial: 253.161

TABLE NO. 29
****
* Information Generated During Iterative Solution for the Factor *
* of Safety and Side Force Inclination by Spencer's Procedure *
****

Iter-ation	Trial Factor of Safety	Trial Side Force Inclination (degrees)	Force Imbalance (lbs.)	Moment Imbalance (ft.-lbs.)	Delta-F	Delta Theta (degrees)
1	2.20898	15.1330	.4120E-03	.5186E+01		

First-order corrections to F and THETA .... -.446E-05 -.771E-03

Factor of Safety - - - - - - - - - 2.209
Side Force Inclination - - - - - 15.13
Number of Iterations - - - - - - 1

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White Tanks. Steady-State Drained,
Units lbs-ft ,
By ISG, Date Aug 2004

TABLE NO. 38
****
* Final Results for Stresses Along the Shear Surface *
* (Results for Critical Shear Surface in Case of a Search.) *
****

SPENCER'S PROCEDURE USED TO COMPUTE FACTOR OF SAFETY
Factor of Safety = 2.209 Side Force Inclination = 15.13 Degrees

-------- VALUES AT CENTER OF BASE OF SLICE--------

Slice No.	X-center	Y-center	Total Normal Stress	Effective Normal Stress	Shear Stress
1	.0	191.1	108.6	108.6	28.4
2	4.9	190.2	296.9	296.9	77.6
3	9.9	189.5	438.5	438.5	114.6
4	12.5	189.2	498.2	498.2	130.2
5	15.0	189.1	663.4	663.4	173.4
6	18.8	189.0	893.5	893.5	233.5
7	22.5	189.0	1089.0	1089.0	284.7
8	27.5	189.3	1313.5	1313.5	343.3
9	32.5	189.8	1493.0	1493.0	390.2
10	37.0	190.5	1620.3	1620.3	423.5
11	41.5	191.4	1789.2	1789.2	502.5
12	46.4	192.7	1762.6	1762.6	518.2
13	51.2	194.2	1779.5	1779.5	523.1
14	55.9	195.9	1762.3	1762.3	518.1
15	58.6	197.1	1741.1	1741.1	511.9
16	61.3	198.3	1596.9	1596.9	469.5
17	65.8	200.6	1316.1	1316.1	386.9
18	68.6	202.1	1133.9	1133.9	333.3
19	71.3	203.9	939.1	939.1	276.1
20	75.4	206.6	640.8	640.8	188.4
21	79.4	209.6	351.7	351.7	103.4
22	82.8	212.3	104.6	104.6	30.7

CHECK SUMS - (ALL SHOULD BE SMALL)
SUM OF FORCES IN VERTICAL DIRECTION = .00 (= .211E-02)
SHOULD NOT EXCEED .100E+03
SUM OF FORCES IN HORIZONTAL DIRECTION = .00 (= .203E-02)
SHOULD NOT EXCEED .100E+03
SUM OF MOMENTS ABOUT COORDINATE ORIGIN = -5.31 (= -.531E+01)
SHOULD NOT EXCEED .100E+03
SHEAR STRENGTH/SHEAR FORCE CHECK-SUM = .00 (= .965E-03)
SHOULD NOT EXCEED .100E+03

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Units lbs-ft ,
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TABLE NO. 39
****
* Final Results for Side Forces and Stresses Between Slices. *
* (Results for Critical Shear Surface in Case of a Search.) *
****

SPENCER'S PROCEDURE USED TO COMPUTE FACTOR OF SAFETY
Factor of Safety = 2.209 Side Force Inclination = 15.13 Degrees

-------------- VALUES AT RIGHT SIDE OF SLICE --------------

Slice No.	X-Right	Side Force	Y-Coord. of Side Force Location	Fraction of Height	Sigma at Top	Sigma at Bottom
1	2.4	263.	191.8	.792	464.0	-126.5
2	7.4	904.	191.5	.626	557.2	77.9
3	12.4	1738.	191.6	.622	776.5	120.9
4	12.5	1753.	191.6	.622	780.7	120.9
5	17.5	2834.	191.7	.442	286.8	591.7

6	20.0	3464.	191.0	.393	163.7	745.7
7	25.0	4797.	192.2	.333	-.2	981.6
8	30.0	6044.	192.8	.298	-108.4	1145.3
9	35.0	7044.	193.7	.275	-184.5	1247.4
10	39.0	7591.	194.5	.262	-228.1	1286.9
11	43.9	8149.	195.5	.240	-297.3	1354.9
12	48.8	8224.	196.8	.221	-341.2	1357.2
13	53.5	7794.	198.3	.205	-360.5	1295.5
14	58.2	6868.	200.0	.189	-351.9	1166.8
15	59.0	6658.	200.3	.187	-347.0	1137.0
16	63.5	5291.	202.2	.197	-297.1	1021.0
17	68.0	3796.	204.2	.207	-236.5	862.1
18	69.2	3371.	204.8	.211	-217.2	809.4
19	73.4	1971.	207.1	.226	-147.2	684.5
20	77.4	886.	209.4	.252	-75.0	383.6
21	81.4	176.	212.0	.358	10.5	128.3
22	84.2	0.	213.6	.500	.0	.0

```
CHECK SUMS - (ALL SHOULD BE SMALL)
SUM OF FORCES IN VERTICAL DIRECTION    =        .00  (=  .211E-02)
     SHOULD NOT EXCEED      .100E+03
SUM OF FORCES IN HORIZONTAL DIRECTION  =        .00  (=  .203E-02)
     SHOULD NOT EXCEED      .100E+03
SUM OF MOMENTS ABOUT COORDINATE ORIGIN =      -5.31  (= -.531E+01)
     SHOULD NOT EXCEED      .100E+03
SHEAR STRENGTH/SHEAR FORCE CHECK-SUM   =        .00  (=  .965E-03)
     SHOULD NOT EXCEED      .100E+03

END-OF-FILE ENCOUNTERED WHILE READING COMMAND
WORDS - END OF PROBLEM(S) ASSUMED
```

```
HEADING
 White Tanks. End of Construction
 Units lbs-ft ,
 By ISG, Date Aug 2004
Profile Lines
1   1   Existing Dam
12.5    193
59      213.5
69.2    213.5
111.7   185

2   2   Common Fill - Downstream
69.2    213.5
129     213.8
137.5   218
141.5   218

3   3   Soil Cement
121.7   185
141.5   218
151.5   218
171.3   185

4   4   Foundation
-20     190
12.5    193
111.7   185
121.7   185
171.3   185
225.5   183
260     182


Material Properties
1    Existing Dam
  125
  Conventional Shear
  0    28
  No Piezometric Line
2    Common Fill
  120
  Conventional Shear
  0    28
 No Piezometric Line
3    Soil Cement
  135
  Conventional Shear
  57600    0
 No Piezometric Line
4    Foundation
  118
  Conventional Shear
  0     25
 No Piezometric Line

Analysis and Computations
Circular search
180    275   10   160
POINT
121.7  185
STOP
iterations
200
SEI
0.06
```

```
Plot
compute
```


K/L 4PRINT

```
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        TABLE NO. 1
        ***************************************
        * COMPUTER PROGRAM DESIGNATION - UTEXAS3 *
        * Originally Coded By Stephen G. Wright  *
        * Version No. 1.208                      *
        * Last Revision Date  2/22/98            *
        * (C) Copyright 1985-1998 S. G. Wright   *
        * All Rights Reserved                    *
        ***************************************

        ******************************************************************
        *                                                                *
        *      RESULTS OF COMPUTATIONS PERFORMED USING THIS COMPUTER     *
        * PROGRAM SHOULD NOT BE USED FOR DESIGN PURPOSES UNLESS THEY     *
        * HAVE BEEN VERIFIED BY INDEPENDENT ANALYSES, EXPERIMENTAL       *
        * DATA OR FIELD EXPERIENCE. THE USER SHOULD UNDERSTAND THE       *
        * ALGORITHMS AND ANALYTICAL PROCEDURES USED IN THE COMPUTER      *
        * PROGRAM AND MUST HAVE READ ALL DOCUMENTATION FOR THIS          *
        * PROGRAM BEFORE ATTEMPTING ITS USE.                             *
        *                                                                *
        *      NEITHER SHINOAK SOFTWARE NOR STEPHEN G. WRIGHT            *
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         Units lbs-ft ,
         By ISG, Date Aug 2004

        TABLE NO.  2
        ***************************
        * NEW PROFILE LINE DATA *
        ***************************

        PROFILE LINE  1 - MATERIAL TYPE =  1
        Existing Dam

             Point       X            Y

               1        12.500      193.000
               2        59.000      213.500
               3        69.200      213.500
               4       111.700      185.000

        PROFILE LINE  2 - MATERIAL TYPE =  2
        Common Fill - Downstream

             Point       X            Y

               1        69.200      213.500
               2       129.000      213.800
```



```
               3       137.500      210.000
               4       141.500      210.000

        PROFILE LINE  3 - MATERIAL TYPE =  3
        Soil Cement

             Point       X            Y

               1       121.700      185.000
               2       141.500      210.000
               3       151.500      210.000
               4       171.300      185.000

        PROFILE LINE  4 - MATERIAL TYPE =  4
        Foundation

             Point       X            Y

               1       -20.000      190.000
               2        12.500      193.000
               3       111.700      185.000
               4       121.700      185.000
               5       171.300      185.000
               6       225.500      183.000
               7       260.000      182.000

        All new profile lines defined - No old lines retained
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        TABLE NO.  3
        ************************************************************************
        * NEW MATERIAL PROPERTY DATA - CONVENTIONAL/FIRST-STAGE COMPUTATIONS *
        ************************************************************************

        DATA FOR MATERIAL TYPE  1
        Existing Dam

             Unit weight of material =  125.000

             CONVENTIONAL (ISOTROPIC) SHEAR STRENGTHS
             Cohesion - - - - - - - -          .000
             Friction angle - - - - -  28.000 degrees

             No (or zero) pore water pressures

        DATA FOR MATERIAL TYPE  2
        Common Fill

             Unit weight of material =  120.000

             CONVENTIONAL (ISOTROPIC) SHEAR STRENGTHS
             Cohesion - - - - - - - -          .000
             Friction angle - - - - -  28.000 degrees
```



```
        DATA FOR MATERIAL TYPE  3
        Soil Cement

             Unit weight of material =  135.000

             CONVENTIONAL (ISOTROPIC) SHEAR STRENGTHS
             Cohesion - - - - - - - -   57600.000
             Friction angle - - - - -    .000 degrees

             No (or zero) pore water pressures

        DATA FOR MATERIAL TYPE  4
        Foundation

             Unit weight of material =  118.000

             CONVENTIONAL (ISOTROPIC) SHEAR STRENGTHS
             Cohesion - - - - - - - -          .000
             Friction angle - - - - -  25.000 degrees

             No (or zero) pore water pressures

        All new material properties defined - No old data retained
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         Units lbs-ft ,
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        TABLE NO. 15
        ***********************************
        * NEW ANALYSIS/COMPUTATION DATA *
        ***********************************

        Circular Shear Surface(s)

        Automatic Search Performed

        Starting Center Coordinate for Search at -
                                                        X =      180.000
                                                        Y =      275.000

        Required accuracy for critical center (= minimum
        spacing between grid points) =      10.000

        Critical shear surface not allowed to pass below Y =      160.000

        For the initial mode of search
        all circles pass through the point at -
                                                        X =      121.700
                                                        Y =      185.000

        Search terminated after initial mode completed

        Maximum number of iterations allowed for
        calculating the factor of safety =  200

        Seismic coefficient =  .060
```



```
        ------------------------------------------------------------------
        THE FOLLOWING REPRESENT EITHER DEFAULT OR PREVIOUSLY DEFINED VALUES:

        Initial trial estimate for the factor of safety =   3.000

        Initial trial estimate for side force inclination =  15.000 degrees
        (Applicable to Spencer's procedure only)

        Allowed force imbalance for convergence =     100.000

        Allowed moment imbalance for convergence =     100.000

        Initial trial values for factor of safety (and side force inclination
        for Spencer's procedure) will be kept constant during search

        Maximum subtended angle to be used for subdivision of the
        circle into slices =   3.00 degrees

        Depth of crack =        .000

        Depth of water in crack =        .000

        Unit weight of water in crack =    62.400

        Conventional (single-stage) computations to be performed

        Procedure used to compute the factor of safety: SPENCER
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         Units lbs-ft ,
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        TABLE NO. 16
        ***************************
        * NEW SLOPE GEOMETRY DATA *
        ***************************

        NOTE - NO DATA WERE INPUT, SLOPE GEOMETRY DATA
        WERE GENERATED BY THE PROGRAM

        Slope Coordinates -

             Point       X            Y

               1       -20.000      190.000
               2        12.500      193.000
               3        59.000      213.500
               4        69.200      213.500
               5       129.000      213.800
               6       137.500      210.000
               7       141.500      210.000
               8       151.500      210.000
               9       171.300      185.000
              10       225.500      183.000
              11       260.000      182.000
```

Date: 8:26:2004 Time: 10: 5:41 Input file: ps1.inn
White Tanks. End of Construction
Units lbs-ft ,
By ISG, Date Aug 2004

TABLE NO. 17
INFORMATION FOR CURRENT MODE OF SEARCH - All Circles Pass Through
the Fixed Point at X = 121.700 and Y = 185.000

Center Coordinates X	Y	Radius	1-Stage Factor of Safety	Side Force Inclination (degrees)	Iterations
-120.00	-25.00	320.19	Center of circle is below lowest point of slope - CIRCLE REJECTED		
180.00	-25.00	217.94	Center of circle is below lowest point of slope - CIRCLE REJECTED		
480.00	-25.00	415.31	Center of circle is below lowest point of slope - CIRCLE REJECTED		
-120.00	275.00	257.91	Bottom of circle exceeds allowable depth - CIRCLE REJECTED		
180.00	275.00	107.23	1.558	-15.54	6
480.00	275.00	369.43	Bottom of circle exceeds allowable depth - CIRCLE REJECTED		
-120.00	575.00	458.02	Bottom of circle exceeds allowable depth - CIRCLE REJECTED		
180.00	575.00	394.33	See Message on Next Line(s)		
Last Trial Values =			2.726	2.19	3

(Last Trial Values Shown Above Are Not Correct Final Values)
VALUE OF SIDE FORCE INCLINATION BECAME OUTSIDE RANGE OF

FROM -80.00 TO 10.00 DEGREES

480.00 575.00 529.60 Bottom of circle exceeds allowable depth - CIRCLE REJECTED

130.00 225.00 40.85 See Message on Next Line(s)
Last Trial Values = 103.000 -10.38 201
(Last Trial Values Shown Above Are Not Correct Final Values)
FATAL ERROR IN CALCULATING FACTOR OF SAFETY

SOLUTION DID NOT CONVERGE WITHIN 200 ITERATIONS

180.00	225.00	70.70	Bottom of circle exceeds allowable depth - CIRCLE REJECTED		
230.00	225.00	115.45	Bottom of circle exceeds allowable depth - CIRCLE REJECTED		
130.00	275.00	90.38	46.438	-9.29	89
230.00	275.00	140.82	Bottom of circle exceeds allowable depth - CIRCLE REJECTED		
130.00	325.00	140.25	38.443	-8.93	73
180.00	325.00	151.65	1.608	-17.66	8
230.00	325.00	177.00	Bottom of circle exceeds allowable depth - CIRCLE REJECTED		

150.00 245.00 66.34 See Message on Next Line(s)
Last Trial Values = 1.919 5.39 4
(Last Trial Values Shown Above Are Not Correct Final Values)

VALUE OF SIDE FORCE INCLINATION BECAME OUTSIDE RANGE OF

FROM -80.00 TO 10.00 DEGREES

180.00 245.00 83.66 1.664 -13.76 6
210.00 245.00 186.76 Bottom of circle exceeds allowable depth - CIRCLE REJECTED
150.00 275.00 94.34 See Message on Next Line(s)
Last Trial Values = 2.122 7.10 4
(Last Trial Values Shown Above Are Not Correct Final Values)
VALUE OF SIDE FORCE INCLINATION BECAME OUTSIDE RANGE OF

FROM -80.00 TO 10.00 DEGREES

210.00 275.00 126.08 Bottom of circle exceeds allowable depth - CIRCLE REJECTED
150.00 305.00 123.29 See Message on Next Line(s)
Last Trial Values = 2.416 2.19 3
(Last Trial Values Shown Above Are Not Correct Final Values)
VALUE OF SIDE FORCE INCLINATION BECAME OUTSIDE RANGE OF

FROM -80.00 TO 10.00 DEGREES

180.00 305.00 133.41 1.572 -16.88 8
210.00 305.00 148.99 Bottom of circle exceeds allowable depth - CIRCLE REJECTED

170.00 265.00 93.45 See Message on Next Line(s)
Last Trial Values = 1.627 5.01 5
(Last Trial Values Shown Above Are Not Correct Final Values)
VALUE OF SIDE FORCE INCLINATION BECAME OUTSIDE RANGE OF

FROM -80.00 TO 10.00 DEGREES

180.00 265.00 98.99 1.573 -15.02 7
190.00 265.00 105.19 Bottom of circle exceeds allowable depth - CIRCLE REJECTED
170.00 275.00 102.14 See Message on Next Line(s)
Last Trial Values = 1.653 5.19 5
(Last Trial Values Shown Above Are Not Correct Final Values)
VALUE OF SIDE FORCE INCLINATION BECAME OUTSIDE RANGE OF

FROM -80.00 TO 10.00 DEGREES

190.00 275.00 112.98 1.688 -13.12 7
170.00 285.00 111.05 See Message on Next Line(s)
Last Trial Values = 1.686 5.47 5
(Last Trial Values Shown Above Are Not Correct Final Values)
VALUE OF SIDE FORCE INCLINATION BECAME OUTSIDE RANGE OF

FROM -80.00 TO 10.00 DEGREES

180.00 285.00 115.75 1.554 -16.02 7
190.00 285.00 121.10 1.660 -13.44 6

170.00 295.00 120.14 See Message on Next Line(s)
Last Trial Values = 1.722 5.85 5
(Last Trial Values Shown Above Are Not Correct Final Values)
VALUE OF SIDE FORCE INCLINATION BECAME OUTSIDE RANGE OF

FROM -80.00 TO 10.00 DEGREES

180.00 295.00 124.49 1.560 -16.46 7
190.00 295.00 129.48 1.644 -13.74 6

At the end of the current mode of search the most critical
circle which was found has the following values -
X-center = 180.00 Y-center = 285.00 Radius = 115.75
Factor of Safety = 1.554 Side Force Inclination = -16.02

***** CAUTION ***** FACTOR OF SAFETY COULD NOT BE COMPUTED FOR SOME
OF GRID POINTS AROUND THE MINIMUM
***** RESULTS MAY BE ERRONEOUS *****
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Units lbs-ft ,
By ISG, Date Aug 2004

TABLE NO. 21
***** 1-STAGE FINAL CRITICAL CIRCLE INFORMATION *****

X Coordinate of Center - - - - - - - -	180.000
Y Coordinate of Center - - - - - - - -	285.000
Radius - - - - - - - - - - - - - - - -	115.754
Factor of Safety - - - - - - - - - - -	1.554
Side Force Inclination - - - - - - - -	-16.02
Number of circles tried - - - - - - -	36
No. of circles F calc. for - - - - - -	12

***** CAUTION ***** FACTOR OF SAFETY COULD NOT BE COMPUTED FOR SOME
OF GRID POINTS AROUND THE MINIMUM
***** RESULTS MAY BE ERRONEOUS *****
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Units lbs-ft ,
By ISG, Date Aug 2004

TABLE NO. 26
****
* Coordinate, Weight, Strength and Pore Water Pressure *
* Information for Individual Slices for Conventional *
* Computations or First Stage of Multi-Stage Computations. *
* (Information is for the Critical Shear Surface in the *
* Case of an Automatic Search.) *
****

Slice No.	X	Y	Slice Weight	Matl. Type	Cohesion	Friction Angle	Pore Pressure
	88.9	213.6					
1	90.8	211.3	1086.6	2	.00	28.00	.0
	92.8	208.9					
2	94.8	206.7	3410.8	2	.00	28.00	.0
	96.9	204.5					

Slice No.	X	Y	Slice Weight	Matl. Type	Cohesion	Friction Angle	Pore Pressure
3	99.0	202.3	5871.7	2	.00	28.00	[illegible]
	101.2	200.2					
4	103.5	198.2	8426.5	2	.00	28.00	.0
	105.7	196.2					
5	108.1	194.3	11032.1	2	.00	28.00	.0
	110.5	192.5					
6	111.1	192.0	3189.3	2	.00	28.00	.0
	111.7	191.5					
7	114.2	189.8	14299.0	2	.00	28.00	.0
	116.7	188.1					
8	119.2	186.5	16371.1	2	.00	28.00	.0
	121.7	185.0					
9	121.7	185.0	.1	4	.00	25.00	.0
	121.7	185.0					
10	124.4	183.5	19615.1	4	.00	25.00	.0
	127.0	182.1					
11	128.0	181.6	7977.4	4	.00	25.00	.0
	129.0	181.1					
12	131.8	179.8	24685.1	4	.00	25.00	.0
	134.5	178.6					
13	136.0	177.9	15142.1	4	.00	25.00	.0
	137.5	177.3					
14	139.5	176.6	21592.5	4	.00	25.00	.0
	141.5	175.8					
15	144.4	174.9	32556.3	4	.00	25.00	.0
	147.3	174.0					
16	149.4	173.4	24663.1	4	.00	25.00	.0
	151.5	172.8					
17	154.5	172.1	31370.3	4	.00	25.00	.0
	157.4	171.5					
18	160.4	171.0	24547.6	4	.00	25.00	.0
	163.4	170.4					
19	166.4	170.1	17234.3	4	.00	25.00	.0
	169.4	169.7					
20	170.4	169.7	3844.0	4	.00	25.00	.0
	171.3	169.6					

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White Tanks. End of Construction
Units lbs-ft ,
By ISG, Date Aug 2004

TABLE NO. 26
****
* Coordinate, Weight, Strength and Pore Water Pressure *
* Information for Individual Slices for Conventional *
* Computations or First Stage of Multi-Stage Computations. *
* (Information is for the Critical Shear Surface in the *
* Case of an Automatic Search.) *
****

Slice No.	X	Y	Slice Weight	Matl. Type	Cohesion	Friction Angle	Pore Pressure
	171.3	169.6					
21	174.3	169.4	11044.3	4	.00	25.00	.0
	177.4	169.3					
22	178.7	169.3	4831.1	4	.00	25.00	.0
	180.0	169.2					

23	183.0	169.3	10895.4	4	.00	25.00	.0
	186.1	169.4					
24	189.1	169.6	10480.3	4	.00	25.00	.0
	192.1	169.9					
25	195.1	170.3	9816.2	4	.00	25.00	.0
	198.1	170.7					
26	201.1	171.2	8913.6	4	.00	25.00	.0
	204.1	171.8					
27	207.0	172.5	7787.0	4	.00	25.00	.0
	210.0	173.2					
28	212.9	174.1	6455.4	4	.00	25.00	.0
	215.8	174.9					
29	218.6	175.9	4941.3	4	.00	25.00	.0
	221.5	176.9					
30	223.5	177.7	2524.4	4	.00	25.00	.0
	225.5	178.6					
31	228.3	179.8	2010.1	4	.00	25.00	.0
	231.0	181.1					
32	232.6	181.9	334.6	4	.00	25.00	.0
	234.3	182.7					

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White Tanks. End of Construction
Units lbs-ft ,
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TABLE NO. 27

* Seismic Forces and Forces Due to Surface Pressures for Individual Slices for Conventional Computations or the First Stage of Multi-Stage Computations. (Information is for the Critical Shear Surface in the Case of an Automatic Search.) *

Slice No.	X	Seismic Force	Y for Seismic Force	FORCES DUE TO SURFACE PRESSURES: Normal Force	Shear Force	X	Y
1	90.8	-65.	212.4	0.	0.	.0	.0
2	94.8	-205.	210.2	0.	0.	.0	.0
3	99.0	-352.	208.0	0.	0.	.0	.0
4	103.5	-506.	205.9	0.	0.	.0	.0
5	108.1	-662.	204.0	0.	0.	.0	.0
6	111.1	-191.	202.9	0.	0.	.0	.0
7	114.2	-858.	201.8	0.	0.	.0	.0
8	119.2	-982.	200.1	0.	0.	.0	.0
9	121.7	0.	199.4	0.	0.	.0	.0
10	124.4	-1177.	198.5	0.	0.	.0	.0
11	128.0	-479.	197.4	0.	0.	.0	.0
12	131.8	-1401.	197.3	0.	0.	.0	.0
13	136.0	-909.	197.6	0.	0.	.0	.0
14	139.5	-1296.	197.6	0.	0.	.0	.0
15	144.4	-1953.	197.0	0.	0.	.0	.0
16	149.4	-1480.	196.3	0.	0.	.0	.0
17	154.5	-1882.	193.2	0.	0.	.0	.0
18	160.4	-1473.	187.6	0.	0.	.0	.0
19	166.4	-1034.	182.0	0.	0.	.0	.0

20	170.4	-231.	178.2	0.	0.	.0	.0
21	174.3	-663.	177.2	0.	0.	.0	.0
22	178.7	-290.	177.0	0.	0.	.0	.0
23	183.0	-654.	176.9	0.	0.	.0	.0
24	189.1	-629.	177.0	0.	0.	.0	.0
25	195.1	-589.	177.2	0.	0.	.0	.0
26	201.1	-535.	177.6	0.	0.	.0	.0
27	207.0	-467.	178.1	0.	0.	.0	.0
28	212.9	-387.	178.8	0.	0.	.0	.0
29	218.6	-296.	179.6	0.	0.	.0	.0
30	223.5	-151.	180.4	0.	0.	.0	.0
31	228.3	-121.	181.4	0.	0.	.0	.0
32	232.6	-20.	182.4	0.	0.	.0	.0

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Units lbs-ft ,
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TABLE NO. 29

* Information Generated During Iterative Solution for the Factor of Safety and Side Force Inclination by Spencer's Procedure *

Iteration	Trial Factor of Safety	Trial Side Force Inclination (degrees)	Force Imbalance (lbs.)	Moment Imbalance (ft.-lbs.)	Delta-F	Delta Theta (degrees)
1	3.00000	-15.0000	-.5759E+05	.1225E+08		
First-order corrections to F and THETA					-.289E+01	.207E+01
Values factored by .173E+00 - Deltas too large					-.500E+00	.359E+00
2	2.50000	-14.6412	-.4559E+05	.9712E+07		
First-order corrections to F and THETA					-.165E+01	.569E+01
Values factored by .304E+00 - Deltas too large					-.500E+00	.173E+01
3	2.00000	-12.9149	-.2818E+05	.6862E+07		
First-order corrections to F and THETA					-.397E+00	-.206E+02
Values factored by .418E+00 - Deltas too large					-.166E+00	-.859E+01
4	1.83379	-21.5093	-.1480E+05	.2910E+07		
First-order corrections to F and THETA					-.342E+00	.729E+01
Second-order correction - Iteration 1					-.301E+00	.729E+01
Second-order correction - Iteration 2					-.301E+00	.729E+01
Second-order correction - Iteration 3					-.301E+00	.729E+01
5	1.53307	-14.2215	.4130E+03	.3704E+05		
First-order corrections to F and THETA					.210E-01	-.181E+01
Second-order correction - Iteration 1					.215E-01	-.181E+01
Second-order correction - Iteration 2					.215E-01	-.181E+01
6	1.55456	-16.0294	.7670E+00	-.8672E+03		
First-order corrections to F and THETA					-.825E-04	.100E-01
Second-order correction - Iteration 1					-.825E-04	.100E-01
7	1.55448	-16.0193	.9460E-02	-.1319E+01		
First-order corrections to F and THETA					.214E-06	-.100E-04

Factor of Safety - - - - - - - - - 1.554
Side Force Inclination - - - - - -16.02
Number of Iterations - - - - - - - 7

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Units lbs-ft ,
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TABLE NO. 38

* Final Results for Stresses Along the Shear Surface (Results for Critical Shear Surface in Case of a Search.) *

SPENCER'S PROCEDURE USED TO COMPUTE FACTOR OF SAFETY
Factor of Safety = 1.554 Side Force Inclination = -16.02 Degrees

VALUES AT CENTER OF BASE OF SLICE

Slice No.	X-center	Y-center	Total Normal Stress	Effective Normal Stress	Shear Stress
1	90.8	211.3	166.3	166.3	56.9
2	94.8	206.7	515.3	515.3	176.2
3	99.0	202.3	878.0	878.0	300.3
4	103.5	198.2	1250.8	1250.8	427.8
5	108.1	194.3	1630.1	1630.1	557.6
6	111.1	192.0	1871.8	1871.8	640.3
7	114.2	189.8	2108.9	2108.9	721.3
8	119.2	186.5	2486.1	2486.1	850.4
9	121.7	185.0	2809.4	2809.4	842.8
10	124.4	183.5	2935.6	2935.6	880.6
11	128.0	181.6	3264.3	3264.3	979.2
12	131.8	179.8	3722.4	3722.4	1116.6
13	136.0	177.9	4306.1	4306.1	1291.7
14	139.5	176.6	4681.6	4681.6	1404.4
15	144.4	174.9	5027.2	5027.2	1508.1
16	149.4	173.4	5325.6	5325.6	1597.5
17	154.5	172.1	4983.0	4983.0	1494.8
18	160.4	171.0	3980.4	3980.4	1194.0
19	166.4	170.1	2861.9	2861.9	858.5
20	170.4	169.7	2066.1	2066.1	619.8
21	174.3	169.4	1902.2	1902.2	570.6
22	178.7	169.3	1948.3	1948.3	584.4
23	183.0	169.3	1967.2	1967.2	590.1
24	189.1	169.6	1964.9	1964.9	589.4
25	195.1	170.3	1919.3	1919.3	575.7
26	201.1	171.2	1826.1	1826.1	547.8
27	207.0	172.5	1680.2	1680.2	504.0
28	212.9	174.1	1475.5	1475.5	442.6
29	218.6	175.9	1204.1	1204.1	361.2
30	223.5	177.7	913.7	913.7	274.1
31	228.3	179.8	556.5	556.5	166.9
32	232.6	181.9	165.2	165.2	49.5

CHECK SUMS - (ALL SHOULD BE SMALL)
SUM OF FORCES IN VERTICAL DIRECTION = .01 (= .619E-02)
SHOULD NOT EXCEED .100E+03
SUM OF FORCES IN HORIZONTAL DIRECTION = .02 (= .179E-01)
SHOULD NOT EXCEED .100E+03
SUM OF MOMENTS ABOUT COORDINATE ORIGIN = 1.28 (= .128E+01)
SHOULD NOT EXCEED .100E+03
SHEAR STRENGTH/SHEAR FORCE CHECK-SUM = .00 (= .393E-02)
SHOULD NOT EXCEED .100E+03

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Units lbs-ft ,
By ISG, Date Aug 2004

TABLE NO. 39

* Final Results for Side Forces and Stresses Between Slices. (Results for Critical Shear Surface in Case of a Search.) *

SPENCER'S PROCEDURE USED TO COMPUTE FACTOR OF SAFETY
Factor of Safety = 1.554 Side Force Inclination = -16.02 Degrees

VALUES AT RIGHT SIDE OF SLICE

Slice No.	X-Right	Side Force	Y-Coord. of Side Force Location	Fraction of Height	Sigma at Top	Sigma at Bottom
1	92.8	647.	210.8	.406	57.8	207.6
2	96.9	2500.	207.3	.311	-34.6	550.6
3	101.2	5389.	204.1	.291	-98.9	869.9
4	105.7	9109.	201.1	.281	-157.5	1159.9
5	110.5	13429.	198.3	.275	-213.3	1427.7
6	111.7	14579.	197.6	.273	-227.1	1491.3
7	116.7	19292.	195.0	.269	-270.2	1724.6
8	121.7	23089.	192.7	.266	-321.9	1910.5
9	121.7	23089.	192.7	.266	-321.9	1910.5
10	127.0	29146.	190.3	.258	-401.9	2169.1
11	129.0	31012.	189.4	.255	-428.1	2250.4
12	134.5	35939.	187.4	.233	-550.1	2370.1
13	137.5	38372.	186.4	.224	-594.6	2408.4
14	141.5	41153.	185.4	.226	-605.7	2482.0
15	147.3	43895.	184.1	.230	-591.5	2508.0
16	151.5	44833.	183.5	.236	-556.7	2463.9
17	157.4	44535.	182.0	.308	-176.3	2510.5
18	163.4	42899.	182.1	.419	763.6	2208.3
19	169.4	40722.	181.3	.625	3716.4	530.6
20	171.3	40079.	180.9	.737	6046.2	-1051.8
21	177.4	37763.	180.0	.692	5034.3	-350.8
22	180.0	36516.	179.7	.674	4654.4	-105.8
23	186.1	33152.	179.0	.640	3890.6	343.9
24	192.1	29130.	178.6	.610	3241.0	660.7
25	198.1	24564.	178.5	.585	2676.7	863.3
26	204.1	19627.	178.6	.565	2178.4	961.8
27	210.0	14549.	178.9	.548	1734.1	959.6
28	215.8	9634.	179.4	.537	1337.9	854.6
29	221.5	5262.	180.3	.536	990.7	637.2

30	225.5	2725.	181.1	.566	823.1	357.7
31	231.0	431.	182.4	.729	562.3	-89.0
32	234.3	9.	-20.9	BELOW	.0	.0

```
CHECK SUMS - (ALL SHOULD BE SMALL)
SUM OF FORCES IN VERTICAL DIRECTION    =        .01  (=  .619E-02)
     SHOULD NOT EXCEED      .100E+03
SUM OF FORCES IN HORIZONTAL DIRECTION  =        .02  (=  .179E-01)
     SHOULD NOT EXCEED      .100E+03
SUM OF MOMENTS ABOUT COORDINATE ORIGIN =       1.28  (=  .128E+01)
     SHOULD NOT EXCEED      .100E+03
SHEAR STRENGTH/SHEAR FORCE CHECK-SUM   =        .00  (=  .393E-02)
     SHOULD NOT EXCEED      .100E+03

END-OF-FILE ENCOUNTERED WHILE READING COMMAND
WORDS - END OF PROBLEM(S) ASSUMED
```

UTEXAS3 Input and Output Files

Transition Section

```
HEADING
 White Tanks. Steady-State Drained,
 Units lbs-ft ,
 By ISG, Date Aug 2004
Profile Lines
1   1   Existing Dam
63      194
111.75  213.5
126.75  213.5
175.5   194

2   2   Common Fill
126.75  213.5
149.25  213.5
199.75  193.3
245     191.5

3   3   Foundation
0       191
63      194
175.5   194
203     183
228     183
245     191.5
300     191.5


Material Properties
1    Existing Dam
  125
  Conventional Shear
  0    33
  No Piezometric Line
2    Common Fill
  120
  Conventional Shear
  500    19
  No Piezometric Line
3    Foundation
  118
  Conventional Shear
  0     30
  No Piezometric Line

Analysis and Computations
circular search
230   240   5    150
POINT
130   205
Iterations
200

Plot
compute
```

```
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        Date:  8:20:2004   Time: 15:39: 7   Input file: ec20.inn


        TABLE NO. 1
        ***********************************************
        * COMPUTER PROGRAM DESIGNATION - UTEXAS3 *
        * Originally Coded By Stephen G. Wright  *
        * Version No. 1.208                      *
        * Last Revision Date  2/22/98            *
        * (C) Copyright 1985-1998 S. G. Wright   *
        * All Rights Reserved                    *
        ***********************************************

        ****************************************************************
        *                                                              *
        *      RESULTS OF COMPUTATIONS PERFORMED USING THIS COMPUTER   *
        * PROGRAM SHOULD NOT BE USED FOR DESIGN PURPOSES UNLESS THEY   *
        * HAVE BEEN VERIFIED BY INDEPENDENT ANALYSES, EXPERIMENTAL     *
        * DATA OR FIELD EXPERIENCE. THE USER SHOULD UNDERSTAND THE     *
        * ALGORITHMS AND ANALYTICAL PROCEDURES USED IN THE COMPUTER    *
        * PROGRAM AND MUST HAVE READ ALL DOCUMENTATION FOR THIS        *
        * PROGRAM BEFORE ATTEMPTING ITS USE.                           *
        *                                                              *
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        *                                                              *
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         White Tanks. Steady-State Drained,
         Units lbs-ft ,
         By ISG, Date Aug 2004

        TABLE NO.  2
        ***************************
        * NEW PROFILE LINE DATA *
        ***************************

        PROFILE LINE  1 - MATERIAL TYPE =  1
        Existing Dam

             Point      X            Y

               1       63.000      194.000
               2      111.750      213.500
               3      126.750      213.500
               4      175.500      194.000

        PROFILE LINE  2 - MATERIAL TYPE =  2
        Aesthetic Fill

             Point      X            Y

               1      126.750      213.500
               2      149.250      213.500
```



```
               3      199.750      193.300
               4      245.000      191.500

        PROFILE LINE  3 - MATERIAL TYPE =  3
        Foundation

             Point      X            Y

               1         .000      191.000
               2       63.000      194.000
               3      175.500      194.000
               4      203.000      183.000
               5      228.000      183.000
               6      245.000      191.500
               7      300.000      191.500

        All new profile lines defined - No old lines retained
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         White Tanks. Steady-State Drained,
         Units lbs-ft ,
         By ISG, Date Aug 2004

        TABLE NO.  3
        ************************************************************************
        * NEW MATERIAL PROPERTY DATA - CONVENTIONAL/FIRST-STAGE COMPUTATIONS *
        ************************************************************************

        DATA FOR MATERIAL TYPE  1
        Existing Dam

             Unit weight of material =  125.000

             CONVENTIONAL (ISOTROPIC) SHEAR STRENGTHS
             Cohesion - - - - - - - -          .000
             Friction angle - - - - -  33.000 degrees

             No (or zero) pore water pressures

        DATA FOR MATERIAL TYPE  2
        Aesthetic Fill

             Unit weight of material =  120.000

             CONVENTIONAL (ISOTROPIC) SHEAR STRENGTHS
             Cohesion - - - - - - - -      500.000
             Friction angle - - - - -  19.000 degrees

             No (or zero) pore water pressures

        DATA FOR MATERIAL TYPE  3
        Foundation

             Unit weight of material =  110.000

             CONVENTIONAL (ISOTROPIC) SHEAR STRENGTHS
             Cohesion - - - - - - - -          .000
```



```
             No (or zero) pore water pressures

        All new material properties defined - No old data retained
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         Units lbs-ft ,
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        TABLE NO. 15
        ***************************************
        * NEW ANALYSIS/COMPUTATION DATA *
        ***************************************

        Circular Shear Surface(s)

        Automatic Search Performed

        Starting Center Coordinate for Search at -
                                                        X =      230.000
                                                        Y =      240.000

        Required accuracy for critical center (= minimum
        spacing between grid points) =        5.000

        Critical shear surface not allowed to pass below Y =      150.000

        For the initial mode of search
        all circles pass through the point at -
                                                        X =      130.000
                                                        Y =      205.000

        Maximum number of iterations allowed for
        calculating the factor of safety =  200

        ------------------------------------------------------------------
        THE FOLLOWING REPRESENT EITHER DEFAULT OR PREVIOUSLY DEFINED VALUES:

        Initial trial estimate for the factor of safety =   3.000

        Initial trial estimate for side force inclination =  15.000 degrees
        (Applicable to Spencer's procedure only)

        Allowed force imbalance for convergence =      100.000

        Allowed moment imbalance for convergence =      100.000

        Initial trial values for factor of safety (and side force inclination
        for Spencer's procedure) will be kept constant during search

        Maximum subtended angle to be used for subdivision of the
        circle into slices =   3.00 degrees

        Depth of crack =          .000

        Search will be continued to locate a more critical shear
        surface (if one exists) after the initial mode is complete

        Depth of water in crack =         .000
```



```
        Unit weight of water in crack =    62.400

        Seismic coefficient =  .000

        Conventional (single-stage) computations to be performed

        Procedure used to compute the factor of safety: SPENCER
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         White Tanks. Steady-State Drained,
         Units lbs-ft ,
         By ISG, Date Aug 2004

        TABLE NO. 16
        ***************************
        * NEW SLOPE GEOMETRY DATA *
        ***************************

        NOTE - NO DATA WERE INPUT, SLOPE GEOMETRY DATA
        WERE GENERATED BY THE PROGRAM

        Slope Coordinates -

             Point      X            Y

               1         .000      191.000
               2       63.000      194.000
               3      111.750      213.500
               4      126.750      213.500
               5      149.250      213.500
               6      199.750      193.300
               7      245.000      191.500
               8      300.000      191.500


        FATAL ERROR FOR INITIAL TRIAL CIRCLE FOR AUTOMATIC SEARCH
        SEARCH ABORTED - See Message on Next Line(s)
        CIRCLE DOES NOT INTERSECT SLOPE


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         White Tanks. Steady-State Drained,
         Units lbs-ft ,
         By ISG, Date Aug 2004

        TABLE NO. 17
        INFORMATION FOR CURRENT MODE OF SEARCH - All Circles Pass Through
        the Fixed Point at   X =   130.000  and Y =   205.000
        ------------------------------------------------------------------

                                                  1-Stage
        Center Coordinates                        Factor  Side Force
                                                    of    Inclination
             X          Y          Radius        Safety   (degrees)   Iterations
```

Friction angle - - - - - 30.000 degrees

```
    80.00     90.00    125.40 Center of circle is below lowest
                              point of slope - CIRCLE REJECTED
   230.00     90.00    152.40 Center of circle is below lowest
                              point of slope - CIRCLE REJECTED
   380.00     90.00    275.18 Center of circle is below lowest
                              point of slope - CIRCLE REJECTED
    80.00    240.00     61.03 Opposite slope face - CIRCLE REJECTED
   230.00    240.00    105.95 Bottom of circle exceeds allowable
                              depth - CIRCLE REJECTED
   380.00    240.00    252.44 Bottom of circle exceeds allowable
                              depth - CIRCLE REJECTED
    80.00    390.00    191.64 Opposite slope face - CIRCLE REJECTED
   230.00    390.00    210.30   3.813      -7.46         4
   380.00    390.00    311.01 Bottom of circle exceeds allowable
                              depth - CIRCLE REJECTED

    80.00    540.00    338.71 Opposite slope face - CIRCLE REJECTED
   230.00    540.00    349.61   4.587      -8.80         6
   380.00    540.00    418.00 Bottom of circle exceeds allowable
                              depth - CIRCLE REJECTED

   205.00    365.00    176.71   3.434      -9.19         4
   230.00    365.00    188.68 See Message on Next Line(s)
CIRCLE DOES NOT INTERSECT SLOPE

   255.00    365.00    203.84 See Message on Next Line(s)
CIRCLE DOES NOT INTERSECT SLOPE

   205.00    390.00    199.62   3.576      -9.55         4
   255.00    390.00    223.27 See Message on Next Line(s)
CIRCLE DOES NOT INTERSECT SLOPE

   205.00    415.00    222.99   3.688     -10.02         4
   230.00    415.00    232.59   3.710      -7.79         4
   255.00    415.00    244.39 See Message on Next Line(s)
CIRCLE DOES NOT INTERSECT SLOPE

   180.00    340.00    143.96   3.597     -10.54         4
   205.00    340.00    154.43   3.237      -9.29         3
   230.00    340.00    168.00 See Message on Next Line(s)
CIRCLE DOES NOT INTERSECT SLOPE

   180.00    365.00    167.63   3.960      -9.76         5
   180.00    390.00    191.64   4.334      -9.06         5

   180.00    315.00    120.83   3.260     -11.33         3
   205.00    315.00    133.14   2.954      -9.58         3
   230.00    315.00    148.66 See Message on Next Line(s)
CIRCLE DOES NOT INTERSECT SLOPE

   180.00    290.00     98.62   2.846     -12.03         3
   205.00    290.00    113.36   3.178      -9.05         4
   230.00    290.00    131.24 See Message on Next Line(s)
CIRCLE DOES NOT INTERSECT SLOPE

   155.00    265.00     65.00   4.915      -8.14         7
   180.00    265.00     78.10   2.718     -11.52         3
```



```
   205.00    265.00     96.05   3.692      -8.24         4
   155.00    290.00     88.68   5.492      -7.40         8
   155.00    315.00    112.81   6.178      -6.59         9

   155.00    240.00     43.01   4.524      -8.83         6
   180.00    240.00     61.03   2.943     -10.38         3
   205.00    240.00     82.76   4.713      -6.94         7

   165.00    250.00     57.01   3.296     -10.76         4
   180.00    250.00     67.27   2.783     -10.98         3
   195.00    250.00     79.06   3.362      -9.01         4
   165.00    265.00     69.46   3.595     -10.43         4
   195.00    265.00     88.46   3.027      -9.50         4
   165.00    280.00     82.76   3.832      -9.88         4
   180.00    280.00     98.14   2.773     -11.87         3
   195.00    280.00     99.25   2.981      -9.30         3

   175.00    260.00     71.06   2.747     -12.11         3
   180.00    260.00     74.33   2.722     -11.37         3
   185.00    260.00     77.78   2.818     -10.37         3
   175.00    265.00     75.00   2.793     -12.00         3
   185.00    265.00     81.39   2.788     -10.53         3
   175.00    270.00     79.06   2.851     -11.87         3
   180.00    270.00     82.01   2.727     -11.65         3
   185.00    270.00     85.15   2.773     -10.67         3

At the end of the current mode of search the most critical
circle which was found has the following values -
X-center =    180.00     Y-center =    265.00     Radius =     78.10
Factor of Safety =    2.718     Side Force Inclination = -11.52
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TABLE NO. 18
INFORMATION FOR CURRENT MODE OF SEARCH - All Circles Are Tangent
to a Horizontal Line at   Y =   186.898
```

Center Coordinates X	Y	Radius	1-Stage Factor of Safety	Side Force Inclination (degrees)	Iterations
30.00	115.00	-71.90	Center of circle is below lowest point of slope - CIRCLE REJECTED		
180.00	115.00	-71.90	Center of circle is below lowest point of slope - CIRCLE REJECTED		
330.00	115.00	-71.90	Center of circle is below lowest point of slope - CIRCLE REJECTED		
30.00	265.00	78.10	Opposite slope face - CIRCLE REJECTED		
330.00	265.00	78.10	See Message on Next Line(s)		
CIRCLE DOES NOT INTERSECT SLOPE					
30.00	415.00	228.10	See Message on Next Line(s)		
CIRCLE DOES NOT INTERSECT SLOPE					


```
   180.00    415.00    228.10   4.812      -5.73         6
   330.00    415.00    228.10 See Message on Next Line(s)
CIRCLE DOES NOT INTERSECT SLOPE

   155.00    240.00     53.10   4.352      -8.39         6
   180.00    240.00     53.10   2.551     -12.26         4
   205.00    240.00     53.10   5.107      -9.72         7
   155.00    265.00     78.10   4.674      -7.19         6
   205.00    265.00     78.10   3.596     -10.56         4
   155.00    290.00    103.10   5.238      -6.16         7
   180.00    290.00    103.10   2.987     -10.31         3
   205.00    290.00    103.10   3.240     -10.16         3

   155.00    215.00     28.10   5.394      -7.03         9
   180.00    215.00     28.10   2.968      -9.33         4
   205.00    215.00     28.10   8.204      -7.50        14

   165.00    225.00     38.10   3.362     -10.30         4
   180.00    225.00     38.10   2.684     -12.18         4
   195.00    225.00     38.10   3.394      -9.26         4
   165.00    240.00     53.10   3.277     -10.52         4
   195.00    240.00     53.10   2.980     -10.45         3
   165.00    255.00     68.10   3.342     -10.23         4
   180.00    255.00     68.10   2.615     -12.13         4
   195.00    255.00     68.10   2.791     -11.02         3

   175.00    235.00     48.10   2.667     -12.23         3
   180.00    235.00     48.10   2.546     -12.31         4
   185.00    235.00     48.10   2.544     -12.03         5
   175.00    240.00     53.10   2.661     -12.38         4
   185.00    240.00     53.10   2.538     -11.95         4
   175.00    245.00     58.10   2.676     -12.38         3
   180.00    245.00     58.10   2.566     -12.23         4
   185.00    245.00     58.10   2.546     -11.85         4

   190.00    235.00     48.10   2.698     -11.34         3
   190.00    240.00     53.10   2.645     -11.54         4
   190.00    245.00     58.10   2.626     -11.49         4

At the end of the current mode of search the most critical
circle which was found has the following values -
X-center =    185.00     Y-center =    240.00     Radius =     53.10
Factor of Safety =    2.538     Side Force Inclination = -11.95
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TABLE NO. 19
INFORMATION FOR CURRENT MODE OF SEARCH - All Circles Have the
Same Radius   -   Radius =    53.102
```

Center Coordinates X	Y	Radius	1-Stage Factor of Safety	Side Force Inclination (degrees)	Iterations


```
    35.00     90.00     53.10 Center of circle is below lowest
                              point of slope - CIRCLE REJECTED
   185.00     90.00     53.10 Center of circle is below lowest
                              point of slope - CIRCLE REJECTED
   335.00     90.00     53.10 Center of circle is below lowest
                              point of slope - CIRCLE REJECTED
    35.00    240.00     53.10 Opposite slope face - CIRCLE REJECTED
   335.00    240.00     53.10 See Message on Next Line(s)
CIRCLE DOES NOT INTERSECT SLOPE

    35.00    390.00     53.10 See Message on Next Line(s)
CIRCLE DOES NOT INTERSECT SLOPE

   185.00    390.00     53.10 See Message on Next Line(s)
CIRCLE DOES NOT INTERSECT SLOPE

   335.00    390.00     53.10 See Message on Next Line(s)
CIRCLE DOES NOT INTERSECT SLOPE

   160.00    215.00     53.10   5.516      -6.42         8
   185.00    215.00     53.10   4.450      -6.63         7
   210.00    215.00     53.10   6.254      -6.15        11
   160.00    240.00     53.10   3.737      -9.49         4
   210.00    240.00     53.10   7.132      -8.67        11
   160.00    265.00     53.10  85.725     -11.64       168
   185.00    265.00     53.10 See Message on Next Line(s)
CIRCLE DOES NOT INTERSECT SLOPE

   210.00    265.00     53.10 See Message on Next Line(s)
CIRCLE DOES NOT INTERSECT SLOPE

   170.00    225.00     53.10   3.766      -8.87         5
   185.00    225.00     53.10   3.430      -8.76         5
   200.00    225.00     53.10   3.884      -8.46         5
   170.00    240.00     53.10   2.917     -11.60         3
   200.00    240.00     53.10   3.634      -9.73         4
   170.00    255.00     53.10   4.792     -11.07         6
   185.00    255.00     53.10  14.339     -13.51        26
   200.00    255.00     53.10 See Message on Next Line(s)
CIRCLE DOES NOT INTERSECT SLOPE

   180.00    235.00     53.10   2.761     -11.16         3
   185.00    235.00     53.10   2.735     -10.84         3
   190.00    235.00     53.10   2.798     -10.53         3
   180.00    240.00     53.10   2.551     -12.26         4
   190.00    240.00     53.10   2.645     -11.54         4
   180.00    245.00     53.10   2.688     -12.55         6
   185.00    245.00     53.10   2.635     -13.21         5
   190.00    245.00     53.10   3.060     -13.85         3

At the end of the current mode of search the most critical
circle which was found has the following values -
X-center =    185.00     Y-center =    240.00     Radius =     53.10
Factor of Safety =    2.538     Side Force Inclination = -11.95
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```

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TABLE NO. 21
***** 1-STAGE FINAL CRITICAL CIRCLE INFORMATION *****

X Coordinate of Center - - - - - - - 185.000
Y Coordinate of Center - - - - - - - 240.000
Radius - - - - - - - - - - - - - - 53.102
Factor of Safety - - - - - - - - - - - 2.538
Side Force Inclination - - - - - - - -11.95

Number of circles tried - - - - - - 125
No. of circles F calc. for - - - - - 98

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TABLE NO. 26
****
* Coordinate, Weight, Strength and Pore Water Pressure *
* Information for Individual Slices for Conventional *
* Computations or First Stage of Multi-Stage Computations. *
* (Information is for the Critical Shear Surface in the *
* Case of an Automatic Search.) *
****

Slice No.	X	Y	Slice Weight	Matl. Type	Cohesion	Friction Angle	Pore Pressure
	139.0	213.5					
1	139.7	212.3	206.4	2	500.00	19.00	.0
	140.4	211.1					
2	141.2	210.0	663.8	2	500.00	19.00	.0
	142.0	208.8					
3	142.8	207.8	1078.8	2	500.00	19.00	.0
	143.6	206.8					
4	144.5	205.7	1686.1	1	.00	33.00	.0
	145.4	204.6					
5	146.3	203.6	2274.7	1	.00	33.00	.0
	147.3	202.6					
6	148.3	201.7	2822.9	1	.00	33.00	.0
	149.3	200.7					
7	150.3	199.8	3391.1	1	.00	33.00	.0
	151.4	198.9					
8	152.5	198.1	3787.0	1	.00	33.00	.0
	153.6	197.2					
9	154.7	196.4	4149.7	1	.00	33.00	.0
	155.8	195.6					
10	157.0	194.9	4471.5	1	.00	33.00	.0
	158.2	194.2					
11	158.3	194.1	529.0	1	.00	33.00	.0
	158.5	194.0					
12	159.7	193.3	4762.1	3	.00	30.00	.0
	160.9	192.7					
13	162.2	192.1	4953.3	3	.00	30.00	.0

Slice No.	X	Y	Slice Weight	Matl. Type	Cohesion	Friction Angle	Pore Pressure
	163.4	191.5					
14	164.7	190.9	5086.1	3	.00	30.00	.0
	166.0	190.4					
15	167.3	190.0	5156.9	3	.00	30.00	.0
	168.6	189.5					
16	169.9	189.1	5162.6	3	.00	30.00	.0
	171.3	188.7					
17	172.6	188.4	5101.6	3	.00	30.00	.0
	174.0	188.1					
18	174.7	187.9	2787.8	3	.00	30.00	.0
	175.5	187.8					
19	176.9	187.5	4882.8	3	.00	30.00	.0
	178.2	187.3					
20	179.6	187.2	4671.2	3	.00	30.00	.0
	181.0	187.0					

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TABLE NO. 26
****
* Coordinate, Weight, Strength and Pore Water Pressure *
* Information for Individual Slices for Conventional *
* Computations or First Stage of Multi-Stage Computations. *
* (Information is for the Critical Shear Surface in the *
* Case of an Automatic Search.) *
****

Slice No.	X	Y	Slice Weight	Matl. Type	Cohesion	Friction Angle	Pore Pressure
	181.0	187.0					
21	182.4	187.0	4394.8	3	.00	30.00	.0
	183.8	186.9					
22	184.4	186.9	1811.9	3	.00	30.00	.0
	185.0	186.9					
23	186.4	186.9	3890.3	3	.00	30.00	.0
	187.8	187.0					
24	189.2	187.1	3469.0	3	.00	30.00	.0
	190.6	187.2					
25	191.3	187.3	1715.4	3	.00	30.00	.0
	192.1	187.4					
26	193.4	187.6	2710.6	2	500.00	19.00	.0
	194.8	187.8					
27	196.2	188.1	2160.2	2	500.00	19.00	.0
	197.5	188.4					
28	198.6	188.7	1341.9	2	500.00	19.00	.0
	199.8	189.0					
29	201.1	189.4	1220.7	2	500.00	19.00	.0
	202.4	189.8					
30	202.7	189.9	234.0	2	500.00	19.00	.0
	203.0	190.0					
31	204.3	190.5	799.6	2	500.00	19.00	.0
	205.6	191.1					
32	206.9	191.6	423.6	2	500.00	19.00	.0
	208.1	192.2					
33	208.8	192.6	65.7	2	500.00	19.00	.0

	209.5	192.9					

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TABLE NO. 27
****
* Seismic Forces and Forces Due to Surface Pressures for *
* Individual Slices for Conventional Computations or the *
* First Stage of Multi-Stage Computations. *
* (Information is for the Critical Shear Surface in the *
* Case of an Automatic Search.) *
****

				FORCES DUE TO SURFACE PRESSURES			
Slice No.	X	Seismic Force	Y for Seismic Force	Normal Force	Shear Force	X	Y
1	139.7	0.	212.9	0.	0.	.0	.0
2	141.2	0.	211.7	0.	0.	.0	.0
3	142.8	0.	210.7	0.	0.	.0	.0
4	144.5	0.	209.6	0.	0.	.0	.0
5	146.3	0.	208.5	0.	0.	.0	.0
6	148.3	0.	207.5	0.	0.	.0	.0
7	150.3	0.	206.4	0.	0.	.0	.0
8	152.5	0.	205.1	0.	0.	.0	.0
9	154.7	0.	203.8	0.	0.	.0	.0
10	157.0	0.	202.6	0.	0.	.0	.0
11	158.3	0.	201.9	0.	0.	.0	.0
12	159.7	0.	201.3	0.	0.	.0	.0
13	162.2	0.	200.2	0.	0.	.0	.0
14	164.7	0.	199.1	0.	0.	.0	.0
15	167.3	0.	198.1	0.	0.	.0	.0
16	169.9	0.	197.2	0.	0.	.0	.0
17	172.6	0.	196.3	0.	0.	.0	.0
18	174.7	0.	195.6	0.	0.	.0	.0
19	176.9	0.	195.0	0.	0.	.0	.0
20	179.6	0.	194.3	0.	0.	.0	.0
21	182.4	0.	193.6	0.	0.	.0	.0
22	184.4	0.	193.2	0.	0.	.0	.0
23	186.4	0.	192.8	0.	0.	.0	.0
24	189.2	0.	192.3	0.	0.	.0	.0
25	191.3	0.	192.0	0.	0.	.0	.0
26	193.4	0.	191.7	0.	0.	.0	.0
27	196.2	0.	191.4	0.	0.	.0	.0
28	198.6	0.	191.2	0.	0.	.0	.0
29	201.1	0.	191.3	0.	0.	.0	.0
30	202.7	0.	191.6	0.	0.	.0	.0
31	204.3	0.	191.8	0.	0.	.0	.0
32	206.9	0.	192.3	0.	0.	.0	.0
33	208.8	0.	192.7	0.	0.	.0	.0

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TABLE NO. 29
****
* Information Generated During Iterative Solution for the Factor *
* of Safety and Side Force Inclination by Spencer's Procedure *
****

Iter-ation	Trial Factor of Safety	Trial Side Force Inclination (degrees)	Force Imbalance (lbs.)	Moment Imbalance (ft.-lbs.)	Delta-F	Delta Theta (degrees)
1	3.00000	-15.0000	-.3743E+04	.0330E+06		
First-order corrections to F and THETA					-.745E+00	.117E+02
Values factored by .671E+00 - Deltas too large					-.500E+00	.782E+01
2	2.50000	-7.1773	-.4731E+03	.1477E+06		
First-order corrections to F and THETA					.484E-01	-.557E+01
Second-order correction - Iteration 1					.516E-01	-.557E+01
Second-order correction - Iteration 2					.516E-01	-.557E+01
3	2.55163	-12.7486	.6487E+01	-.9538E+04		
First-order corrections to F and THETA					-.137E-01	.794E+00
Second-order correction - Iteration 1					-.135E-01	.794E+00
Second-order correction - Iteration 2					-.135E-01	.794E+00
4	2.53809	-11.9549	-.1373E-01	-.4409E+02		
First-order corrections to F and THETA					-.839E-04	.469E-02

Factor of Safety - - - - - - - - - 2.538
Side Force Inclination - - - - - -11.95
Number of Iterations - - - - - - 4

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Units lbs-ft ,
By ISG, Date Aug 2004

TABLE NO. 30
****
* Final Results for Stresses Along the Shear Surface *
* (Results for Critical Shear Surface in Case of a Search.) *
****

SPENCER'S PROCEDURE USED TO COMPUTE FACTOR OF SAFETY
Factor of Safety = 2.538 Side Force Inclination = -11.95 Degrees

--------- VALUES AT CENTER OF BASE OF SLICE---------

Slice No.	X-center	Y-center	Total Normal Stress	Effective Normal Stress	Shear Stress
1	139.7	212.3	-89.8	-89.8	184.8
2	141.2	210.0	119.5	119.5	213.2
3	142.8	207.8	327.6	327.6	241.4
4	144.5	205.7	626.5	626.5	160.3
5	146.3	203.6	827.6	827.6	211.8

6	148.3	201.7	1029.3	1029.3	263.4
7	150.3	199.8	1194.1	1194.1	305.5
8	152.5	198.1	1317.5	1317.5	337.1
9	154.7	196.4	1438.4	1438.4	366.0
10	157.0	194.9	1531.5	1531.5	391.8
11	158.3	194.1	1584.1	1584.1	405.3
12	159.7	193.3	1637.4	1637.4	372.5
13	162.2	192.1	1699.7	1699.7	386.6
14	164.7	190.9	1746.6	1746.6	397.3
15	167.3	190.0	1777.1	1777.1	404.2
16	169.9	189.1	1790.2	1790.2	407.2
17	172.6	188.4	1785.1	1785.1	406.1
18	174.7	187.9	1769.5	1769.5	402.5
19	176.9	187.5	1742.6	1742.6	396.4
20	179.6	187.2	1694.8	1694.8	385.5
21	182.4	187.0	1626.0	1626.0	369.9
22	184.4	186.9	1565.0	1565.0	356.0
23	186.4	186.9	1488.6	1488.6	338.6
24	189.2	187.1	1364.5	1364.5	310.4
25	191.3	187.3	1252.9	1252.9	285.0
26	193.4	187.6	1159.2	1159.2	354.3
27	196.2	188.1	980.5	980.5	330.0
28	198.6	188.7	796.6	796.6	305.1
29	201.1	189.4	656.3	656.3	286.0
30	202.7	189.9	590.6	590.6	277.1
31	204.3	190.5	511.3	511.3	266.4
32	206.9	191.6	365.8	365.8	246.6
33	208.0	192.6	234.6	234.6	228.8

```
CHECK SUMS - (ALL SHOULD BE SMALL)
SUM OF FORCES IN VERTICAL DIRECTION    =        .00  (=  .199E-02)
     SHOULD NOT EXCEED      .100E+03
SUM OF FORCES IN HORIZONTAL DIRECTION  =        .01  (=  .573E-02)
     SHOULD NOT EXCEED      .100E+03
SUM OF MOMENTS ABOUT COORDINATE ORIGIN =      44.04  (=  .440E+02)
     SHOULD NOT EXCEED      .100E+03
SHEAR STRENGTH/SHEAR FORCE CHECK-SUM   =        .00  (=  .866E-03)
     SHOULD NOT EXCEED      .100E+03

***** CAUTION ***** EFFECTIVE OR TOTAL NORMAL STRESS ON SHEAR
                    SURFACE IS NEGATIVE AT POINTS ALONG THE
                    UPPER ONE-HALF OF THE SHEAR SURFACE - A
                    TENSION CRACK MAY BE NEEDED.
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     Units lbs-ft ,
     By ISG, Date Aug 2004

    TABLE NO. 39
    ****************************************************************
    *  Final Results for Side Forces and Stresses Between Slices.  *
    *  (Results for Critical Shear Surface in Case of a Search.)   *
    ****************************************************************

    SPENCER'S PROCEDURE USED TO COMPUTE FACTOR OF SAFETY
    Factor of Safety =  2.538     Side Force Inclination = -11.95 Degrees
```


VALUES AT RIGHT SIDE OF SLICE

Slice No.	X-Right	Side Force	Y-Coord. of Side Force Location	Fraction of Height	Sigma at Top	Sigma at Bottom
1	140.4	-492.	212.2	.435	-124.0	-281.5
2	142.0	-554.	211.6	.593	-180.9	-51.5
3	143.6	-251.	215.7	ABOVE	-215.9	142.9
4	145.4	814.	202.5	BELOW	-318.1	489.9
5	147.3	2115.	202.9	.028	-348.8	729.1
6	149.3	3569.	202.1	.106	-373.8	920.8
7	151.4	5130.	201.0	.153	-395.5	1126.0
8	153.6	6669.	199.9	.186	-395.4	1291.1
9	155.8	8136.	198.9	.212	-389.9	1425.3
10	158.2	9484.	197.8	.233	-355.9	1533.2
11	158.5	9628.	197.7	.235	-352.5	1543.9
12	160.9	10917.	196.7	.250	-332.0	1653.7
13	163.4	12002.	195.8	.263	-302.3	1738.4
14	166.0	12856.	194.9	.276	-265.1	1800.1
15	168.6	13457.	194.2	.288	-221.2	1840.0
16	171.3	13790.	193.5	.300	-171.0	1858.7
17	174.0	13850.	192.9	.311	-114.6	1856.8
18	175.5	13766.	192.6	.318	-80.4	1847.1
19	178.2	13411.	192.1	.331	-13.6	1814.2
20	181.0	12808.	191.8	.345	61.1	1761.8
21	183.8	11984.	191.5	.360	145.2	1690.7
22	185.0	11566.	191.4	.367	185.1	1654.3
23	187.8	10493.	191.3	.385	286.0	1560.7
24	190.6	9310.	191.2	.405	401.4	1459.0
25	192.1	8633.	191.1	.417	472.1	1404.6
26	194.8	7115.	191.2	.459	702.8	1163.2
27	197.5	5611.	191.4	.523	1076.7	820.3
28	199.8	4441.	191.6	.608	1662.3	352.5
29	202.4	3102.	191.9	.609	1493.3	309.9
30	203.0	2804.	192.0	.611	1459.4	293.5
31	205.6	1570.	192.3	.616	1292.7	231.5
32	208.1	504.	192.6	.533	767.0	512.0
33	209.5	0.	-3349.6	BELOW	.0	.0

```
CHECK SUMS - (ALL SHOULD BE SMALL)
SUM OF FORCES IN VERTICAL DIRECTION    =        .00  (=  .199E-02)
     SHOULD NOT EXCEED      .100E+03
SUM OF FORCES IN HORIZONTAL DIRECTION  =        .01  (=  .573E-02)
     SHOULD NOT EXCEED      .100E+03
SUM OF MOMENTS ABOUT COORDINATE ORIGIN =      44.04  (=  .440E+02)
     SHOULD NOT EXCEED      .100E+03
SHEAR STRENGTH/SHEAR FORCE CHECK-SUM   =        .00  (=  .866E-03)
     SHOULD NOT EXCEED      .100E+03

***** CAUTION ***** FORCES BETWEEN SLICES ARE NEGATIVE AT POINTS
                    ALONG THE UPPER ONE-HALF OF THE SHEAR SURFACE -
                    A TENSION CRACK MAY BE NEEDED.

***** CAUTION ***** SOME OF THE FORCES BETWEEN SLICES ACT AT POINTS
                    ABOVE THE SURFACE OF THE SLOPE OR BELOW THE
                    SHEAR SURFACE - EITHER A TENSION CRACK MAY BE
                    NEEDED OR THE SOLUTION MAY NOT BE A VALID SOLUTION
```



```
END-OF-FILE ENCOUNTERED WHILE READING COMMAND
WORDS - END OF PROBLEM(S) ASSUMED
```

```
HEADING
 White Tanks. Steady-State Drained,
 Units lbs-ft ,
 By ISG, Date Aug 2004
Profile Lines
1   1   Existing Dam
63      194
111.75  213.5
126.75  213.5
175.5   194

2   2   Common Fill
126.75  213.5
149.25  213.5
199.75  193.3
245     191.5

3   3   Foundation
0       191
63      194
175.5   194
203     183
228     183
245     191.5
300     191.5


Material Properties
1    Existing Dam
  125
  Conventional Shear
  0    33
  Piezometric Line
  1
2    Common Fill
  120
  Conventional Shear
  0    33
  Piezometric Line
  1
3    Foundation
  118
  Conventional Shear
  0     30
  Piezometric Line
  1

Piezometric Line
1   62.4
0        175
123      188
124      194
130      201
149.25   213.5
300      213.5


Surface Pressures
149.25   213.5   0          0
199.75   193.3   1260       0
245      191.5   1373       0
300      191.5   1373       0

Analysis and Computations
circular search
230   240   5    150
POINT
130   205
STOP
Iterations
200

Plot
compute
```

```
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        Date:  8:26:2004   Time: 10:42:47   Input file: ss21.inn

        TABLE NO. 1
        ***************************************
        * COMPUTER PROGRAM DESIGNATION - UTEXAS3 *
        * Originally Coded By Stephen G. Wright  *
        * Version No. 1.208                      *
        * Last Revision Date  2/22/98            *
        * (C) Copyright 1985-1998 S. G. Wright   *
        * All Rights Reserved                    *
        ***************************************

        ******************************************************************
        *                                                                *
        *      RESULTS OF COMPUTATIONS PERFORMED USING THIS COMPUTER     *
        * PROGRAM SHOULD NOT BE USED FOR DESIGN PURPOSES UNLESS THEY     *
        * HAVE BEEN VERIFIED BY INDEPENDENT ANALYSES, EXPERIMENTAL       *
        * DATA OR FIELD EXPERIENCE. THE USER SHOULD UNDERSTAND THE       *
        * ALGORITHMS AND ANALYTICAL PROCEDURES USED IN THE COMPUTER      *
        * PROGRAM AND MUST HAVE READ ALL DOCUMENTATION FOR THIS          *
        * PROGRAM BEFORE ATTEMPTING ITS USE.                             *
        *                                                                *
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        * MAKE OR ASSUME LIABILITY FOR ANY WARRANTIES, EXPRESSED OR      *
        * IMPLIED, CONCERNING THE ACCURACY, RELIABILITY, USEFULNESS      *
        * OR ADAPTABILITY OF THIS COMPUTER PROGRAM.                      *
        *                                                                *
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         White Tanks. Steady-State Drained,
         Units lbs-ft ,
         By ISG, Date Aug 2004

        TABLE NO.  2
        ***************************
        * NEW PROFILE LINE DATA *
        ***************************

        PROFILE LINE  1 - MATERIAL TYPE =  1
        Existing Dam

             Point       X              Y

               1        63.000        194.000
               2       111.750        213.500
               3       126.750        213.500
               4       175.500        194.000

        PROFILE LINE  2 - MATERIAL TYPE =  2
        Common Fill

             Point       X              Y

               1       126.750        213.500
               2       149.250        213.500
```



```
               3       199.750        193.300
               4       245.000        191.500

        PROFILE LINE  3 - MATERIAL TYPE =  3
        Foundation

             Point       X              Y

               1          .000        191.000
               2        63.000        194.000
               3       175.500        194.000
               4       203.000        183.000
               5       228.000        183.000
               6       245.000        191.500
               7       300.000        191.500

        All new profile lines defined - No old lines retained
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        TABLE NO.  3
        ******************************************************************
        * NEW MATERIAL PROPERTY DATA - CONVENTIONAL/FIRST-STAGE COMPUTATIONS *
        ******************************************************************

        DATA FOR MATERIAL TYPE  1
        Existing Dam

             Unit weight of material =  125.000

             CONVENTIONAL (ISOTROPIC) SHEAR STRENGTHS
             Cohesion - - - - - - - -          .000
             Friction angle - - - - -  33.000 degrees

             Pore water pressures defined by piezometric line
             Number of the piezometric line used =  1
             Negative pore pressures set to zero

        DATA FOR MATERIAL TYPE  2
        Common Fill

             Unit weight of material =  120.000

             CONVENTIONAL (ISOTROPIC) SHEAR STRENGTHS
             Cohesion - - - - - - - -          .000
             Friction angle - - - - -  33.000 degrees

             Pore water pressures defined by piezometric line
             Number of the piezometric line used =  1
             Negative pore pressures set to zero

        DATA FOR MATERIAL TYPE  3
        Foundation
```



```
             CONVENTIONAL (ISOTROPIC) SHEAR STRENGTHS
             Cohesion - - - - - - - -          .000
             Friction angle - - - - -  30.000 degrees

             Pore water pressures defined by piezometric line
             Number of the piezometric line used =  1
             Negative pore pressures set to zero

        All new material properties defined - No old data retained
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         Units lbs-ft ,
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        TABLE NO.  5
        ******************************************************************
        * NEW PIEZOMETRIC LINE DATA - CONVENTIONAL/FIRST-STAGE COMPUTATIONS *
        ******************************************************************

        Line
         No.    Point        X            Y

          1 - Unit weight of water =   62.40
          1        1        .000       175.000
          1        2     123.000       188.000
          1        3     124.000       194.000
          1        4     130.000       201.000
          1        5     149.250       213.500
          1        6     300.000       213.500

        All new piezometric lines defined - No old lines retained
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         Units lbs-ft ,
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        TABLE NO. 10
        ******************************************************************
        * NEW SURFACE PRESSURE DATA - CONVENTIONAL/FIRST-STAGE COMPUTATIONS *
        ******************************************************************

        ALL NEW DATA INPUT - NO OLD DATA RETAINED

        Surface Pressures -
                                                  Normal       Shear
        Point       X              Y            Pressure     Stress

           1     149.250        213.500          .000         .000
           2     199.750        193.300       1260.000         .000
           3     245.000        191.500       1373.000         .000
           4     300.000        191.500       1373.000         .000
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         White Tanks. Steady-State Drained,
         Units lbs-ft ,
```



```
         By ISG, Date Aug 2004

        TABLE NO. 15
        ***************************
        * NEW ANALYSIS/COMPUTATION DATA *
        ***************************

        Circular Shear Surface(s)

        Automatic Search Performed

        Starting Center Coordinate for Search at -
                                                    X =      230.000
                                                    Y =      240.000

        Required accuracy for critical center (= minimum
        spacing between grid points) =        5.000

        Critical shear surface not allowed to pass below Y =      150.000

        For the initial mode of search
        all circles pass through the point at -
                                                    X =      130.000
                                                    Y =      205.000

        Search terminated after initial mode completed

        Maximum number of iterations allowed for
        calculating the factor of safety =  200

        ------------------------------------------------------------------
        THE FOLLOWING REPRESENT EITHER DEFAULT OR PREVIOUSLY DEFINED VALUES:

        Initial trial estimate for the factor of safety =   3.000

        Initial trial estimate for side force inclination =  15.000 degrees
        (Applicable to Spencer's procedure only)

        Allowed force imbalance for convergence =     100.000

        Allowed moment imbalance for convergence =     100.000

        Initial trial values for factor of safety (and side force inclination
        for Spencer's procedure) will be kept constant during search

        Maximum subtended angle to be used for subdivision of the
        circle into slices =   3.00 degrees

        Depth of crack =         .000

        Depth of water in crack =         .000

        Unit weight of water in crack =    62.400

        Seismic coefficient =  .000

        Conventional (single-stage) computations to be performed
```

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TABLE NO. 16
****
* NEW SLOPE GEOMETRY DATA *
****

NOTE - NO DATA WERE INPUT, SLOPE GEOMETRY DATA
WERE GENERATED BY THE PROGRAM

Slope Coordinates -

Point	X	Y
1	.000	191.000
2	63.000	194.000
3	111.750	213.500
4	126.750	213.500
5	149.250	213.500
6	199.750	193.300
7	245.000	191.500
8	300.000	191.500

FATAL ERROR FOR INITIAL TRIAL CIRCLE FOR AUTOMATIC SEARCH
SEARCH ABORTED - See Message on Next Line(s)
CIRCLE DOES NOT INTERSECT SLOPE

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TABLE NO. 17
INFORMATION FOR CURRENT MODE OF SEARCH - All Circles Pass Through
the Fixed Point at X = 130.000 and Y = 205.000

Center Coordinates X	Y	Radius	1-Stage Factor of Safety	Side Force Inclination (degrees)	Iterations
80.00	90.00	125.40	Center of circle is below lowest point of slope - CIRCLE REJECTED		
230.00	90.00	152.40	Center of circle is below lowest point of slope - CIRCLE REJECTED		
380.00	90.00	275.18	Center of circle is below lowest point of slope - CIRCLE REJECTED		
80.00	240.00	61.03	Opposite slope face - CIRCLE REJECTED		
230.00	240.00	105.95	Bottom of circle exceeds allowable depth - CIRCLE REJECTED		

X	Y	Radius	Factor of Safety	Side Force Inclination	Iterations
380.00	240.00	252.44	Bottom of circle exceeds allowable depth - CIRCLE REJECTED		
80.00	390.00	191.64	Opposite slope face - CIRCLE REJECTED		
230.00	390.00	210.30	4.162	-2.13	5
380.00	390.00	311.01	Bottom of circle exceeds allowable depth - CIRCLE REJECTED		
80.00	540.00	338.71	Opposite slope face - CIRCLE REJECTED		
230.00	540.00	349.61	4.181	-3.30	5
380.00	540.00	418.00	Bottom of circle exceeds allowable depth - CIRCLE REJECTED		
205.00	365.00	176.71	3.326	-1.93	4
230.00	365.00	188.68	See Message on Next Line(s)		

CIRCLE DOES NOT INTERSECT SLOPE

255.00	365.00	203.04	See Message on Next Line(s)		

CIRCLE DOES NOT INTERSECT SLOPE

205.00	390.00	199.62	3.465	-1.84	4
255.00	390.00	223.27	See Message on Next Line(s)		

CIRCLE DOES NOT INTERSECT SLOPE

205.00	415.00	222.99	3.705	-2.28	4
230.00	415.00	232.59	4.075	-2.13	5
255.00	415.00	244.39	See Message on Next Line(s)		

CIRCLE DOES NOT INTERSECT SLOPE

180.00	340.00	143.96	4.177	-1.85	5
205.00	340.00	154.43	3.274	-2.11	4
230.00	340.00	168.00	See Message on Next Line(s)		

CIRCLE DOES NOT INTERSECT SLOPE

180.00	365.00	167.63	4.703	-1.98	6
180.00	390.00	191.64	5.201	-1.83	7
180.00	315.00	120.83	3.722	-1.96	4
205.00	315.00	133.14	3.264	-2.29	4
230.00	315.00	148.66	See Message on Next Line(s)		

CIRCLE DOES NOT INTERSECT SLOPE

180.00	290.00	98.62	3.205	-2.04	4
205.00	290.00	113.36	3.431	-2.44	5
230.00	290.00	131.24	See Message on Next Line(s)		

CIRCLE DOES NOT INTERSECT SLOPE

155.00	265.00	65.00	6.041	-2.33	9
180.00	265.00	78.10	2.921	-2.44	4
205.00	265.00	96.05	3.874	-2.49	7
155.00	290.00	88.60	6.940	-2.15	11
155.00	315.00	112.01	8.179	-1.98	13
155.00	240.00	43.01	5.386	-2.61	9
180.00	240.00	61.03	3.121	-2.71	5
205.00	240.00	82.76	4.846	-2.26	8
165.00	250.00	57.01	3.789	-2.52	6

X	Y	Radius	Factor of Safety	Side Force Inclination	Iterations
180.00	250.00	67.27	2.959	-2.67	5
195.00	250.00	79.06	3.574	-2.57	6
165.00	265.00	69.46	4.178	-2.38	6
195.00	265.00	88.46	3.251	-2.57	5
165.00	280.00	82.76	4.519	-2.20	6
180.00	280.00	90.14	3.050	-2.19	4
195.00	280.00	99.25	3.113	-2.45	4
175.00	260.00	71.06	3.070	-2.46	4
180.00	260.00	74.33	2.912	-2.53	4
185.00	260.00	77.78	2.966	-2.57	4
175.00	265.00	75.00	3.135	-2.37	4
185.00	265.00	81.39	2.932	-2.51	4
175.00	270.00	79.06	3.214	-2.29	4
180.00	270.00	82.01	2.949	-2.36	4
185.00	270.00	85.15	2.916	-2.43	4
175.00	255.00	67.27	3.022	-2.56	4
180.00	255.00	70.71	2.923	-2.61	4
185.00	255.00	74.33	3.018	-2.62	5

At the end of the current mode of search the most critical
circle which was found has the following values -
X-center = 180.00 Y-center = 260.00 Radius = 74.33
Factor of Safety = 2.912 Side Force Inclination = -2.53

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By ISG, Date Aug 2004

TABLE NO. 21
***** 1-STAGE FINAL CRITICAL CIRCLE INFORMATION *****

X Coordinate of Center - - - - - - -	180.000
Y Coordinate of Center - - - - - - -	260.000
Radius - - - - - - - - - - - - - - -	74.330
Factor of Safety - - - - - - - - - -	2.912
Side Force Inclination - - - - - - -	-2.53
Number of circles tried - - - - - -	58
No. of circles F calc. for - - - - -	41

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TABLE NO. 26
****
* Coordinate, Weight, Strength and Pore Water Pressure *
* Information for Individual Slices for Conventional *
* Computations or First Stage of Multi-Stage Computations. *
* (Information is for the Critical Shear Surface in the *
* Case of an Automatic Search.) *
****

Slice No.	X	Y	Slice Weight	Matl. Type	Cohesion	Friction Angle	Pore Pressure
	122.0	213.5					
1	122.5	212.9	74.7	1	.00	33.00	.0
	123.0	212.3					
2	123.5	211.7	224.1	1	.00	33.00	.0
	124.0	211.1					
3	125.3	209.7	1254.6	1	.00	33.00	.0
	126.6	208.3					
4	126.7	208.2	76.3	1	.00	33.00	.0
	126.8	208.1					
5	128.1	206.8	2332.6	1	.00	33.00	.0
	129.5	205.4					
6	129.8	205.2	476.7	1	.00	33.00	.0
	130.0	205.0					
7	131.3	203.9	3155.6	1	.00	33.00	.0
	132.6	202.7					
8	134.2	201.5	4544.3	1	.00	33.00	136.9
	135.7	200.3					
9	137.3	199.2	5627.4	1	.00	33.00	408.2
	138.9	198.1					
10	140.5	197.0	6692.0	1	.00	33.00	673.0
	142.2	196.0					
11	143.9	195.1	7721.0	1	.00	33.00	933.0
	145.6	194.1					
12	145.7	194.1	540.5	1	.00	33.00	1069.1
	145.8	194.0					
13	147.5	193.2	8582.9	3	.00	30.00	1199.2
	149.3	192.3					
14	151.0	191.6	9280.7	3	.00	30.00	1368.4
	152.8	190.8					
15	154.7	190.1	9424.9	3	.00	30.00	1457.1
	156.5	189.5					
16	158.4	188.9	9444.4	3	.00	30.00	1533.9
	160.2	188.4					
17	162.1	187.9	9335.4	3	.00	30.00	1598.5
	164.0	187.4					
18	165.9	187.0	9095.8	3	.00	30.00	1650.0
	167.8	186.7					
19	169.7	186.4	8725.9	3	.00	30.00	1690.6
	171.7	186.1					
20	173.6	186.0	8130.6	3	.00	30.00	1717.7
	175.5	185.8					

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Units lbs-ft ,
By ISG, Date Aug 2004

TABLE NO. 26
****
* Coordinate, Weight, Strength and Pore Water Pressure *
* Information for Individual Slices for Conventional *
* Computations or First Stage of Multi-Stage Computations. *
* (Information is for the Critical Shear Surface in the *
* Case of an Automatic Search.) *
****

Slice No.	X	Y	Slice Weight	Matl. Type	Cohesion	Friction Angle	Pore Pressure

	175.5	185.8					
21	177.4	185.7	7634.5	3	.00	30.00	1732.3
	179.4	185.7					
22	179.7	185.7	1139.1	3	.00	30.00	1736.5
	180.0	185.7					
23	181.9	185.7	6818.5	3	.00	30.00	1733.4
	183.9	185.8					
24	185.8	185.9	5995.3	3	.00	30.00	1720.7
	187.8	186.1					
25	189.7	186.3	5072.7	3	.00	30.00	1695.4
	191.6	186.6					
26	192.5	186.7	1922.1	3	.00	30.00	1670.5
	193.3	186.9					
27	195.2	187.3	3583.3	2	.00	33.00	1636.7
	197.1	187.7					
28	198.4	188.0	1831.2	2	.00	33.00	1590.8
	199.8	188.3					
29	201.4	188.8	1718.3	2	.00	33.00	1539.4
	203.0	189.3					
30	204.8	190.0	1377.5	2	.00	33.00	1460.4
	206.7	190.6					
31	208.5	191.4	685.7	2	.00	33.00	1381.3
	210.3	192.1					
32	211.0	192.5	71.0	2	.00	33.00	1312.6
	211.8	192.8					

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White Tanks. Steady-State Drained,
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TABLE NO. 27

```
*****************************************************************
* Seismic Forces and Forces Due to Surface Pressures for        *
* Individual Slices for Conventional Computations or the        *
* First Stage of Multi-Stage Computations.                      *
* (Information is for the Critical Shear Surface in the         *
* Case of an Automatic Search.)                                 *
*****************************************************************
```

FORCES DUE TO SURFACE PRESSURES

Slice No.	X	Seismic Force	Y for Seismic Force	Normal Force	Shear Force	X	Y
1	122.5	0.	213.2	0.	0.	122.5	213.5
2	123.5	0.	212.6	0.	0.	123.5	213.5
3	125.3	0.	211.6	0.	0.	125.3	213.5
4	126.7	0.	210.8	0.	0.	126.7	213.5
5	128.1	0.	210.1	0.	0.	128.1	213.5
6	129.8	0.	209.3	0.	0.	129.8	213.5
7	131.3	0.	208.6	0.	0.	131.3	213.5
8	134.2	0.	207.5	0.	0.	134.2	213.5
9	137.3	0.	206.3	0.	0.	137.3	213.5
10	140.5	0.	205.2	0.	0.	140.5	213.5
11	143.9	0.	204.2	0.	0.	143.9	213.5
12	145.7	0.	203.7	0.	0.	145.7	213.5
13	147.5	0.	203.3	0.	0.	147.5	213.5

14	151.0	0.	202.1	173.	0.	151.6	212.5
15	154.7	0.	200.7	532.	0.	154.9	211.3
16	158.4	0.	199.4	911.	0.	158.5	209.8
17	162.1	0.	198.1	1305.	0.	162.2	208.3
18	165.9	0.	197.0	1710.	0.	166.0	206.8
19	169.7	0.	195.9	2122.	0.	169.8	205.3
20	173.6	0.	194.9	2507.	0.	173.6	203.7
21	177.4	0.	194.0	2947.	0.	177.5	202.2
22	179.7	0.	193.5	500.	0.	179.7	201.3
23	181.9	0.	193.1	3418.	0.	182.0	200.4
24	185.8	0.	192.4	3814.	0.	185.9	198.9
25	189.7	0.	191.8	4194.	0.	189.7	197.3
26	192.5	0.	191.5	1964.	0.	192.5	196.2
27	195.2	0.	191.2	4706.	0.	195.2	195.1
28	198.4	0.	190.9	3467.	0.	198.5	193.8
29	201.4	0.	191.0	4111.	0.	201.4	193.2
30	204.8	0.	191.5	4672.	0.	204.8	193.1
31	208.5	0.	192.2	4611.	0.	208.5	193.0
32	211.0	0.	192.7	1995.	0.	211.0	192.9

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Units lbs-ft ,
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TABLE NO. 29

```
*****************************************************************
* Information Generated During Iterative Solution for the Factor *
* of Safety and Side Force Inclination by Spencer's Procedure    *
*****************************************************************
```

Iter-ation	Trial Factor of Safety	Trial Side Force Inclination (degrees)	Force Imbalance (lbs.)	Moment Imbalance (ft.-lbs.)	Delta-F	Delta Theta (degrees)
1	3.00000	-15.0000	.4567E+04	-.1371E+07		
First-order corrections to F and THETA					.755E-01	.877E+01
Values factored by .980E+00 - Deltas too large					.740E-01	.859E+01
2	3.07485	-6.4056	.5421E+03	-.2107E+06		
First-order corrections to F and THETA					-.157E+00	.361E+01
Second-order correction - Iteration 1					-.145E+00	.361E+01
Second-order correction - Iteration 2					-.145E+00	.361E+01
3	2.92888	-2.7938	-.1490E+01	-.6196E+04		
First-order corrections to F and THETA					-.168E-01	.263E+00
Second-order correction - Iteration 1					-.167E-01	.263E+00
Second-order correction - Iteration 2					-.167E-01	.263E+00
4	2.91219	-2.5388	.2441E-03	-.1417E+02		
First-order corrections to F and THETA					-.356E-04	.574E-03

Factor of Safety - - - - - - - - 2.912
Side Force Inclination - - - - - -2.53
Number of Iterations - - - - - - 4

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White Tanks. Steady-State Drained,
Units lbs-ft ,
By ISG, Date Aug 2004

TABLE NO. 38

```
*****************************************************************
* Final Results for Stresses Along the Shear Surface            *
* (Results for Critical Shear Surface in Case of a Search.)     *
*****************************************************************
```

SPENCER'S PROCEDURE USED TO COMPUTE FACTOR OF SAFETY
Factor of Safety = 2.912 Side Force Inclination = -2.53 Degrees

VALUES AT CENTER OF BASE OF SLICE

Slice No.	X-center	Y-center	Total Normal Stress	Effective Normal Stress	Shear Stress
1	122.5	212.9	57.3	57.3	12.8
2	123.5	211.7	172.0	172.0	38.4
3	125.3	209.7	371.8	371.8	82.9
4	126.7	208.2	523.7	523.7	116.8
5	128.1	206.8	669.3	669.3	149.2
6	129.8	205.2	833.9	833.9	186.0
7	131.3	203.9	979.1	979.1	218.3
8	134.2	201.5	1255.6	1118.7	249.5
9	137.3	199.2	1551.2	1143.0	254.9
10	140.5	197.0	1828.9	1155.1	257.6
11	143.9	195.1	2087.2	1154.2	257.4
12	145.7	194.1	2219.2	1150.0	256.5
13	147.5	193.2	2344.0	1144.8	227.0
14	151.0	191.6	2583.1	1134.6	224.9
15	154.7	190.1	2599.9	1142.8	226.6
16	158.4	188.9	2673.4	1139.4	225.9
17	162.1	187.9	2722.7	1124.2	222.9
18	165.9	187.0	2747.6	1096.8	217.4
19	169.7	186.4	2747.4	1056.8	209.5
20	173.6	186.0	2722.1	1004.4	199.1
21	177.4	185.7	2676.7	944.4	187.2
22	179.7	185.7	2644.6	908.1	180.0
23	181.9	185.7	2598.0	864.6	171.4
24	185.8	185.9	2501.9	781.2	154.9
25	189.7	186.3	2379.5	684.2	135.6
26	192.5	186.7	2277.3	606.8	120.3
27	195.2	187.3	2157.5	520.8	116.1
28	198.4	188.0	1997.0	406.2	90.6
29	201.4	188.8	1842.7	303.3	67.6
30	204.8	190.0	1697.5	229.1	51.1
31	208.5	191.4	1516.4	135.1	30.1
32	211.0	192.5	1371.3	58.7	13.1

CHECK SUMS - (ALL SHOULD BE SMALL)
SUM OF FORCES IN VERTICAL DIRECTION = .00 (= .351E-02)
SHOULD NOT EXCEED .100E+03
SUM OF FORCES IN HORIZONTAL DIRECTION = .01 (= .919E-02)
SHOULD NOT EXCEED .100E+03
SUM OF MOMENTS ABOUT COORDINATE ORIGIN = 14.23 (= .142E+02)
SHOULD NOT EXCEED .100E+03

SHEAR STRENGTH/SHEAR FORCE CHECK-SUM = .00 (= .149E-02)
SHOULD NOT EXCEED .100E+03

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TABLE NO. 39

```
*****************************************************************
* Final Results for Side Forces and Stresses Between Slices.    *
* (Results for Critical Shear Surface in Case of a Search.)     *
*****************************************************************
```

SPENCER'S PROCEDURE USED TO COMPUTE FACTOR OF SAFETY
Factor of Safety = 2.912 Side Force Inclination = -2.53 Degrees

VALUES AT RIGHT SIDE OF SLICE

Slice No.	X-Right	Side Force	Y-Coord. of Side Force Location	Fraction of Height	Sigma at Top	Sigma at Bottom
1	123.8	57.	212.9	.482	41.8	51.9
2	124.8	220.	212.0	.361	15.3	169.3
3	126.6	1067.	210.1	.350	20.0	386.7
4	128.8	1116.	210.0	.348	18.1	397.8
5	129.5	2519.	208.1	.334	1.8	622.1
6	130.8	2787.	207.8	.332	-2.8	657.8
7	132.6	4452.	206.2	.327	-14.9	839.5
8	135.7	6704.	204.5	.321	-38.5	1054.2
9	138.9	9364.	202.9	.313	-74.5	1287.5
10	142.2	12298.	201.4	.307	-111.7	1516.5
11	145.6	15373.	200.0	.302	-147.4	1732.2
12	145.8	15576.	199.9	.302	-149.7	1745.7
13	149.3	18717.	198.6	.297	-191.0	1957.4
14	152.8	21645.	197.5	.313	-124.6	2159.4
15	156.5	24871.	196.4	.328	-39.3	2316.7
16	160.2	25925.	195.4	.341	60.7	2434.1
17	164.0	27152.	194.6	.355	172.2	2514.9
18	167.8	27715.	193.8	.368	292.9	2561.6
19	171.7	27596.	193.1	.380	421.3	2576.1
20	175.5	26805.	192.6	.393	554.4	2560.5
21	179.4	25339.	192.1	.406	695.1	2515.0
22	180.0	25050.	192.0	.408	717.3	2505.5
23	183.9	22847.	191.6	.421	865.0	2424.9
24	187.8	20063.	191.3	.436	1023.5	2312.9
25	191.6	16771.	191.1	.452	1196.4	2166.6
26	193.3	15181.	191.0	.460	1278.1	2092.3
27	197.1	11267.	190.9	.485	1529.1	1841.5
28	199.8	8398.	190.9	.511	1800.5	1583.5
29	203.0	6214.	191.3	.517	1772.6	1449.7
30	206.7	3631.	191.9	.526	1746.6	1267.7
31	210.3	1076.	192.5	.524	1594.6	1187.1
32	211.8	0.	10365.6	ABOVE	.0	.0

CHECK SUMS - (ALL SHOULD BE SMALL)
SUM OF FORCES IN VERTICAL DIRECTION = .00 (= .351E-02)

```
     SHOULD NOT EXCEED      .100E+03
SUM OF FORCES IN HORIZONTAL DIRECTION  =        .01  (=  .919E-02)
     SHOULD NOT EXCEED      .100E+03
SUM OF MOMENTS ABOUT COORDINATE ORIGIN =      14.23  (=  .142E+02)
     SHOULD NOT EXCEED      .100E+03
SHEAR STRENGTH/SHEAR FORCE CHECK-SUM   =        .00  (=  .149E-02)
     SHOULD NOT EXCEED      .100E+03

END-OF-FILE ENCOUNTERED WHILE READING COMMAND
WORDS - END OF PROBLEM(S) ASSUMED
```

```
HEADING
 White Tanks. Steady-State Drained,
 Units lbs-ft ,
 By ISG, Date Aug 2004
Profile Lines
1   1   Existing Dam
63      194
111.75  213.5
126.75  213.5
175.5   194

2   2   Common Fill
126.75  213.5
149.25  213.5
199.75  193.3
245     191.5

3   3   Foundation
0       191
63      194
175.5   194
203     183
228     183
245     191.5
300     191.5


Material Properties
1    Existing Dam
  125
  Conventional Shear
  0    33
  Piezometric Line
  1
2    Common Fill
  120
  Conventional Shear
  0    33
  Piezometric Line
  1
3    Foundation
  118
  Conventional Shear
  0     30
  Piezometric Line
  1

Piezometric Line
1   62.4
0         175
123       188
124       194
130       201
149.25    213.5
300       213.5


Surface Pressures
149.25   213.5   0          0
199.75   193.3   1260       0
245      191.5   1373       0
300      191.5   1373       0

Analysis and Computations
circular search
80   230   5    180
POINT
149.25   213.5
STOP
Iterations
200

Plot
compute
```

```
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        TABLE NO. 1
        ***********************************
        * COMPUTER PROGRAM DESIGNATION - UTEXAS3 *
        * Originally Coded By Stephen G. Wright  *
        * Version No. 1.208                      *
        * Last Revision Date  2/22/98            *
        * (C) Copyright 1985-1998 S. G. Wright   *
        * All Rights Reserved                    *
        ***********************************

        ****************************************************************
        *                                                              *
        *      RESULTS OF COMPUTATIONS PERFORMED USING THIS COMPUTER   *
        * PROGRAM SHOULD NOT BE USED FOR DESIGN PURPOSES UNLESS THEY   *
        * HAVE BEEN VERIFIED BY INDEPENDENT ANALYSES, EXPERIMENTAL     *
        * DATA OR FIELD EXPERIENCE. THE USER SHOULD UNDERSTAND THE     *
        * ALGORITHMS AND ANALYTICAL PROCEDURES USED IN THE COMPUTER    *
        * PROGRAM AND MUST HAVE READ ALL DOCUMENTATION FOR THIS        *
        * PROGRAM BEFORE ATTEMPTING ITS USE.                           *
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        *                                                              *
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         Units lbs-ft ,
         By ISG, Date Aug 2004

        TABLE NO.  2
        ***************************
        * NEW PROFILE LINE DATA *
        ***************************

        PROFILE LINE  1 - MATERIAL TYPE =  1
        Existing Dam

             Point       X              Y

               1        63.000        194.000
               2       111.750        213.500
               3       126.750        213.500
               4       175.500        194.000

        PROFILE LINE  2 - MATERIAL TYPE =  2
        Common Fill

             Point       X              Y

               1       126.750        213.500
               2       149.250        213.500
```



```
               3       199.750        193.300
               4       245.000        191.500

        PROFILE LINE  3 - MATERIAL TYPE =  3
        Foundation

             Point       X              Y

               1          .000        191.000
               2        63.000        194.000
               3       175.500        194.000
               4       203.000        183.000
               5       220.000        183.000
               6       245.000        191.500
               7       300.000        191.500

        All new profile lines defined - No old lines retained
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         White Tanks. Steady-State Drained,
         Units lbs-ft ,
         By ISG, Date Aug 2004

        TABLE NO.  3
        ***********************************************************
        * NEW MATERIAL PROPERTY DATA - CONVENTIONAL/FIRST-STAGE COMPUTATIONS *
        ***********************************************************

        DATA FOR MATERIAL TYPE  1
        Existing Dam

             Unit weight of material =  125.000

             CONVENTIONAL (ISOTROPIC) SHEAR STRENGTHS
             Cohesion - - - - - - - -          .000
             Friction angle - - - - -  33.000 degrees

             Pore water pressures defined by piezometric line
             Number of the piezometric line used =  1
             Negative pore pressures set to zero

        DATA FOR MATERIAL TYPE  2
        Common Fill

             Unit weight of material =  120.000

             CONVENTIONAL (ISOTROPIC) SHEAR STRENGTHS
             Cohesion - - - - - - - -          .000
             Friction angle - - - - -  33.000 degrees

             Pore water pressures defined by piezometric line
             Number of the piezometric line used =  1
             Negative pore pressures set to zero

        DATA FOR MATERIAL TYPE  3
        Foundation
```



```
             CONVENTIONAL (ISOTROPIC) SHEAR STRENGTHS
             Cohesion - - - - - - - -          .000
             Friction angle - - - - -  30.000 degrees

             Pore water pressures defined by piezometric line
             Number of the piezometric line used =  1
             Negative pore pressures set to zero

        All new material properties defined - No old data retained
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         Units lbs-ft ,
         By ISG, Date Aug 2004

        TABLE NO.  5
        ***********************************************************
        * NEW PIEZOMETRIC LINE DATA - CONVENTIONAL/FIRST-STAGE COMPUTATIONS *
        ***********************************************************

        Line
         No.    Point       X            Y

          1 - Unit weight of water =   62.40
          1        1         .000     175.000
          1        2      123.000     188.000
          1        3      124.000     194.000
          1        4      130.000     201.000
          1        5      149.250     213.500
          1        6      300.000     213.500

        All new piezometric lines defined - No old lines retained
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         White Tanks. Steady-State Drained,
         Units lbs-ft ,
         By ISG, Date Aug 2004

        TABLE NO. 10
        ***********************************************************
        * NEW SURFACE PRESSURE DATA - CONVENTIONAL/FIRST-STAGE COMPUTATIONS *
        ***********************************************************

        ALL NEW DATA INPUT - NO OLD DATA RETAINED

        Surface Pressures -
                                                  Normal       Shear
        Point       X            Y             Pressure      Stress

           1     149.250      213.500           .000          .000
           2     199.750      193.300       1260.000          .000
           3     245.000      191.500       1373.000          .000
           4     300.000      191.500       1373.000          .000
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        Date:  8:26:2004   Time: 10:35:32   Input file: ss20.inn
         White Tanks. Steady-State Drained,
         Units lbs-ft ,
```



```
         By ISG, Date Aug 2004

        TABLE NO. 15
        ***************************************
        * NEW ANALYSIS/COMPUTATION DATA *
        ***************************************

        Circular Shear Surface(s)

        Automatic Search Performed

        Starting Center Coordinate for Search at -
                                                        X =      80.000
                                                        Y =     230.000

        Required accuracy for critical center (= minimum
        spacing between grid points) =        5.000

        Critical shear surface not allowed to pass below Y =      100.000

        For the initial mode of search
        all circles pass through the point at -
                                                        X =     149.250
                                                        Y =     213.500

        Search terminated after initial mode completed

        Maximum number of iterations allowed for
        calculating the factor of safety =  200

        ------------------------------------------------------------------
        THE FOLLOWING REPRESENT EITHER DEFAULT OR PREVIOUSLY DEFINED VALUES:

        Initial trial estimate for the factor of safety =   3.000

        Initial trial estimate for side force inclination =  15.000 degrees
        (Applicable to Spencer's procedure only)

        Allowed force imbalance for convergence =     100.000

        Allowed moment imbalance for convergence =     100.000

        Initial trial values for factor of safety (and side force inclination
        for Spencer's procedure) will be kept constant during search

        Maximum subtended angle to be used for subdivision of the
        circle into slices =   3.00 degrees

        Depth of crack =         .000

        Depth of water in crack =         .000

        Unit weight of water in crack =    62.400

        Seismic coefficient =  .000

        Conventional (single-stage) computations to be performed
```

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White Tanks. Steady-State Drained,
Units lbs-ft ,
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TABLE NO. 16
****
* NEW SLOPE GEOMETRY DATA *
****

NOTE - NO DATA WERE INPUT, SLOPE GEOMETRY DATA
WERE GENERATED BY THE PROGRAM

Slope Coordinates -

Point	X	Y
1	.000	191.000
2	63.000	194.000
3	111.750	213.500
4	126.750	213.500
5	149.250	213.500
6	199.750	193.300
7	245.000	191.500
8	300.000	191.500

FATAL ERROR FOR INITIAL TRIAL CIRCLE FOR AUTOMATIC SEARCH
SEARCH ABORTED - See Message on Next Line(s)
ONLY ONE SLICE GENERATED - CIRCLE REJECTED

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TABLE NO. 17
INFORMATION FOR CURRENT MODE OF SEARCH - All Circles Pass Through
the Fixed Point at X = 149.250 and Y = 213.500

Center Coordinates X	Y	Radius	1-Stage Factor of Safety	Side Force Inclination (degrees)	Iterations
-70.00	80.00	256.70	Center of circle is below lowest point of slope - CIRCLE REJECTED		
80.00	80.00	150.39	Center of circle is below lowest point of slope - CIRCLE REJECTED		
230.00	80.00	156.02	Center of circle is below lowest point of slope - CIRCLE REJECTED		
-70.00	230.00	219.87	Bottom of circle exceeds allowable depth - CIRCLE REJECTED		
80.00	230.00	71.19	Bottom of circle exceeds allowable		

			depth - CIRCLE REJECTED		
230.00	230.00	82.42	Bottom of circle exceeds allowable depth - CIRCLE REJECTED		
-70.00	380.00	275.30	Bottom of circle exceeds allowable depth - CIRCLE REJECTED		
80.00	380.00	180.33	3.510	10.63	4
230.00	380.00	185.05	Opposite slope face - CIRCLE REJECTED		
-70.00	530.00	385.02	Bottom of circle exceeds allowable depth - CIRCLE REJECTED		
80.00	530.00	323.99	5.417	7.00	9
230.00	530.00	326.64	See Message on Next Line(s)		
CIRCLE DOES NOT INTERSECT SLOPE					
55.00	355.00	170.02	2.940	9.40	3
80.00	355.00	157.54	3.261	11.35	4
105.00	355.00	148.26	See Message on Next Line(s)		
Last Trial Values =			6.232	37.93	201
(Last Trial Values Shown Above Are Not Correct Final Values)					
FATAL ERROR IN CALCULATING FACTOR OF SAFETY					
SOLUTION DID NOT CONVERGE WITHIN 200 ITERATIONS					
55.00	380.00	191.33	2.812	10.37	3
105.00	380.00	172.28	6.993	5.80	14
55.00	405.00	213.44	See Message on Next Line(s)		
ONLY ONE SLICE GENERATED - CIRCLE REJECTED					
80.00	405.00	203.64	3.790	9.89	5
105.00	405.00	196.55	7.697	5.32	15
30.00	355.00	185.05	Bottom of circle exceeds allowable depth - CIRCLE REJECTED		
30.00	380.00	204.80	Bottom of circle exceeds allowable depth - CIRCLE REJECTED		
30.00	405.00	225.59	Bottom of circle exceeds allowable depth - CIRCLE REJECTED		
40.00	365.00	186.78	Bottom of circle exceeds allowable depth - CIRCLE REJECTED		
55.00	365.00	178.42	2.878	9.75	3
70.00	365.00	170.90	2.917	12.51	3
40.00	380.00	199.14	See Message on Next Line(s)		
CIRCLE DOES NOT INTERSECT SLOPE					
70.00	380.00	184.40	3.026	12.11	3
40.00	395.00	211.84	See Message on Next Line(s)		
CIRCLE DOES NOT INTERSECT SLOPE					
55.00	395.00	204.51	See Message on Next Line(s)		
ONLY ONE SLICE GENERATED - CIRCLE REJECTED					
70.00	395.00	198.05	3.147	11.67	7
50.00	375.00	189.56	2.988	9.25	3
55.00	375.00	186.99	2.831	10.14	3
60.00	375.00	184.52	See Message on Next Line(s)		
ONLY ONE SLICE GENERATED - CIRCLE REJECTED					

50.00	380.00	193.04	2.957	9.39	3
60.00	380.00	188.91	2.748	11.80	3
50.00	385.00	198.15	2.928	9.55	3
55.00	385.00	195.69	2.796	10.63	3
60.00	385.00	193.33	2.754	12.12	3
65.00	375.00	182.15	2.787	12.77	3
65.00	380.00	186.60	See Message on Next Line(s)		
ONLY ONE SLICE GENERATED - CIRCLE REJECTED					
65.00	385.00	191.08	2.879	12.69	3

At the end of the current mode of search the most critical
circle which was found has the following values -
X-center = 60.00 Y-center = 380.00 Radius = 188.91
Factor of Safety = 2.748 Side Force Inclination = 11.80

***** CAUTION ***** FACTOR OF SAFETY COULD NOT BE COMPUTED FOR SOME
OF GRID POINTS AROUND THE MINIMUM
***** RESULTS MAY BE ERRONEOUS *****
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TABLE NO. 21
***** 1-STAGE FINAL CRITICAL CIRCLE INFORMATION *****
X Coordinate of Center - - - - - - - - 60.000
Y Coordinate of Center - - - - - - - - 380.000
Radius - - - - - - - - - - - - - - - - 188.912
Factor of Safety - - - - - - - - - - - 2.748
Side Force Inclination - - - - - - - - 11.80

Number of circles tried - - - - - - - 42
No. of circles F calc. for - - - - - - 21

***** CAUTION ***** FACTOR OF SAFETY COULD NOT BE COMPUTED FOR SOME
OF GRID POINTS AROUND THE MINIMUM
***** RESULTS MAY BE ERRONEOUS *****
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TABLE NO. 26
****
* Coordinate, Weight, Strength and Pore Water Pressure *
* Information for Individual Slices for Conventional *
* Computations or First Stage of Multi-Stage Computations. *
* (Information is for the Critical Shear Surface in the *
* Case of an Automatic Search.) *
****

Slice No.	X	Y	Slice Weight	Matl. Type	Cohesion	Friction Angle	Pore Pressure
	35.5	192.7					
1	40.4	192.2	868.3	3	.00	30.00	.0
	45.3	191.7					
2	50.2	191.4	2315.8	3	.00	30.00	.0
	55.2	191.1					
3	57.6	191.1	1494.2	3	.00	30.00	.0
	60.0	191.1					
4	61.5	191.1	1081.4	3	.00	30.00	.0
	63.0	191.1					
5	67.9	191.3	5566.5	3	.00	30.00	.0
	72.9	191.5					
6	77.8	192.0	9619.5	3	.00	30.00	.0
	82.7	192.5					
7	87.6	193.2	12986.9	3	.00	30.00	.0
	92.5	193.9					
8	92.8	194.0	793.2	3	.00	30.00	.0
	93.0	194.0					
9	97.9	195.0	15699.8	1	.00	33.00	.0
	102.7	196.0					
10	107.2	197.1	16398.8	1	.00	33.00	.0
	111.8	198.3					
11	116.5	199.8	16170.6	1	.00	33.00	.0
	121.2	201.3					
12	122.1	201.6	2698.6	1	.00	33.00	.0
	123.0	201.9					
13	123.5	202.1	1427.4	1	.00	33.00	.0
	124.0	202.3					
14	125.4	202.8	3689.7	1	.00	33.00	.0
	126.8	203.3					
15	128.4	203.9	3887.6	1	.00	33.00	.0
	130.0	204.5					
16	134.5	206.5	7823.9	1	.00	33.00	.0
	139.1	208.4					
17	139.2	208.5	88.1	1	.00	33.00	.0
	139.2	208.5					
18	143.7	210.7	2981.7	2	.00	33.00	.0
	148.1	212.9					
19	148.7	213.2	42.2	2	.00	33.00	.0
	149.2	213.5					

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TABLE NO. 27
****
* Seismic Forces and Forces Due to Surface Pressures for *
* Individual Slices for Conventional Computations or the *
* First Stage of Multi-Stage Computations. *
* (Information is for the Critical Shear Surface in the *
* Case of an Automatic Search.) *
****

Slice	Seismic	Y for Seismic	FORCES DUE TO SURFACE PRESSURES Normal	Shear

No.	X	Force	Force	Force	Force	X	Y
1	40.4	0.	192.5	0.	0.	40.4	192.9
2	50.2	0.	192.4	0.	0.	50.2	193.4
3	57.6	0.	192.4	0.	0.	57.6	193.7
4	61.5	0.	192.5	0.	0.	61.5	193.9
5	67.9	0.	193.7	0.	0.	67.9	196.0
6	77.8	0.	196.0	0.	0.	77.8	199.9
7	87.6	0.	198.5	0.	0.	87.6	203.8
8	92.8	0.	199.9	0.	0.	92.8	205.9
9	97.9	0.	201.5	0.	0.	97.9	208.0
10	107.2	0.	204.4	0.	0.	107.2	211.7
11	116.5	0.	206.6	0.	0.	116.5	213.5
12	122.1	0.	207.5	0.	0.	122.1	213.5
13	123.5	0.	207.8	0.	0.	123.5	213.5
14	125.4	0.	208.1	0.	0.	125.4	213.5
15	128.4	0.	208.7	0.	0.	128.4	213.5
16	134.5	0.	210.0	0.	0.	134.5	213.5
17	139.2	0.	211.0	0.	0.	139.2	213.5
18	143.7	0.	212.1	0.	0.	143.7	213.5
19	148.7	0.	213.3	0.	0.	148.7	213.5

```
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     Units lbs-ft ,
     By ISG, Date Aug 2004

    TABLE NO. 29
    ****************************************************************
    *  Information Generated During Iterative Solution for the Factor  *
    *  of Safety and Side Force Inclination by Spencer's Procedure     *
    ****************************************************************

            Trial     Trial
           Factor    Side Force    Force      Moment                Delta
Iter-       of      Inclination  Imbalance   Imbalance   Delta-F    Theta
ation     Safety     (degrees)    (lbs.)    (ft.-lbs.)             (degrees)

   1    3.00000     15.0000    .1926E+04  -.2999E+06
First-order corrections to F and THETA .........  -.268E+00 -.160E+01
Second-order correction - Iteration   1 ........  -.249E+00 -.160E+01
Second-order correction - Iteration   2 ........  -.249E+00 -.160E+01

   2    2.75112     13.3959   -.1257E+02   .1022E+05
First-order corrections to F and THETA .........  -.349E-02 -.160E+01
Second-order correction - Iteration   1 ........  -.344E-02 -.160E+01
Second-order correction - Iteration   2 ........  -.344E-02 -.160E+01

   3    2.74768     11.7959    .2242E-01   .9002E+01
First-order corrections to F and THETA .........  -.104E-04 -.256E-02

Factor of Safety - - - - - - - -      2.748
Side Force Inclination - - - - -      11.00
Number of Iterations - - - - - -      3
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     White Tanks. Steady-State Drained,
     Units lbs-ft ,
```



```
     By ISG, Date Aug 2004

    TABLE NO. 30
    ****************************************************************
    *  Final Results for Stresses Along the Shear Surface          *
    *  (Results for Critical Shear Surface in Case of a Search.)   *
    ****************************************************************

    SPENCER'S PROCEDURE USED TO COMPUTE FACTOR OF SAFETY
    Factor of Safety =  2.748     Side Force Inclination =  11.00 Degrees
```

-------- VALUES AT CENTER OF BASE OF SLICE--------

Slice No.	X-center	Y-center	Total Normal Stress	Effective Normal Stress	Shear Stress
1	40.4	192.2	96.7	96.7	20.3
2	50.2	191.4	250.9	250.9	52.7
3	57.6	191.1	325.6	325.6	68.4
4	61.5	191.1	347.9	347.9	73.1
5	67.9	191.3	578.5	578.5	121.6
6	77.8	192.0	981.1	981.1	206.2
7	87.6	193.2	1303.8	1303.8	274.0
8	92.8	194.0	1458.9	1458.9	304.9
9	97.9	195.0	1555.3	1555.3	367.6
10	107.2	197.1	1786.4	1786.4	403.3
11	116.5	199.8	1571.7	1571.7	371.5
12	122.1	201.6	1346.9	1346.9	318.3
13	123.5	202.1	1286.5	1286.5	304.1
14	125.4	202.8	1203.5	1203.5	284.4
15	128.4	203.9	1064.7	1064.7	251.6
16	134.5	206.5	754.0	754.0	178.2
17	139.2	208.5	522.0	522.0	123.4
18	143.7	210.7	287.3	287.3	67.9
19	148.7	213.2	30.9	30.9	7.3

```
    CHECK SUMS - (ALL SHOULD BE SMALL)
    SUM OF FORCES IN VERTICAL DIRECTION    =          .00  (=  .188E-02)
         SHOULD NOT EXCEED      .100E+03
    SUM OF FORCES IN HORIZONTAL DIRECTION  =          .00  (=  .100E-02)
         SHOULD NOT EXCEED      .100E+03
    SUM OF MOMENTS ABOUT COORDINATE ORIGIN =        -8.83  (= -.883E+01)
         SHOULD NOT EXCEED      .100E+03
    SHEAR STRENGTH/SHEAR FORCE CHECK-SUM   =          .00  (=  .638E-03)
         SHOULD NOT EXCEED      .100E+03
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     Units lbs-ft ,
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    TABLE NO. 35
    ****************************************************************
    *  Final Results for Side Forces and Stresses Between Slices.  *
    *  (Results for Critical Shear Surface in Case of a Search.)   *
    ****************************************************************
```



```
    SPENCER'S PROCEDURE USED TO COMPUTE FACTOR OF SAFETY
    Factor of Safety =  2.748     Side Force Inclination =  11.00 Degrees
```

---------- VALUES AT RIGHT SIDE OF SLICE ----------

Slice No.	X-Right	Side Force	Y-Coord. of Side Force Location	Fraction of Height	Sigma at Top	Sigma at Bottom
1	45.3	306.	193.2	ABOVE	836.5	-436.3
2	55.2	969.	193.3	.880	1254.8	-489.3
3	60.0	1327.	193.6	.909	1619.8	-681.8
4	63.0	1542.	193.8	.944	1914.5	-869.1
5	72.9	2524.	194.5	.466	305.8	463.2
6	82.7	3663.	195.5	.319	-32.0	792.3
7	92.5	4474.	196.9	.253	-177.9	914.1
8	93.0	4581.	197.0	.250	-182.8	916.0
9	102.7	4987.	198.7	.198	-285.3	987.3
10	111.8	4641.	200.8	.164	-303.6	901.9
11	121.2	3474.	203.5	.178	-258.9	815.0
12	123.0	3195.	204.0	.182	-245.6	785.0
13	124.0	3037.	204.3	.184	-237.6	766.6
14	126.8	2589.	205.2	.190	-213.2	708.0
15	130.0	2052.	206.3	.200	-179.4	627.6
16	139.1	699.	209.0	.259	-60.3	330.7
17	139.2	682.	209.0	.262	-57.3	324.6
18	148.1	11.	214.3	ABOVE	204.9	-170.6
19	149.2	0.	-370.6	BELOW	.0	.0

```
    CHECK SUMS - (ALL SHOULD BE SMALL)
    SUM OF FORCES IN VERTICAL DIRECTION    =          .00  (=  .188E-02)
         SHOULD NOT EXCEED      .100E+03
    SUM OF FORCES IN HORIZONTAL DIRECTION  =          .00  (=  .100E-02)
         SHOULD NOT EXCEED      .100E+03
    SUM OF MOMENTS ABOUT COORDINATE ORIGIN =        -8.83  (= -.883E+01)
         SHOULD NOT EXCEED      .100E+03
    SHEAR STRENGTH/SHEAR FORCE CHECK-SUM   =          .00  (=  .638E-03)
         SHOULD NOT EXCEED      .100E+03

    ***** CAUTION ***** SOME OF THE FORCES BETWEEN SLICES ACT AT POINTS
                        ABOVE THE SURFACE OF THE SLOPE OR BELOW THE
                        SHEAR SURFACE - EITHER A TENSION CRACK MAY BE
                        NEEDED OR THE SOLUTION MAY NOT BE A VALID SOLUTION


    END-OF-FILE ENCOUNTERED WHILE READING COMMAND
    WORDS - END OF PROBLEM(S) ASSUMED
```

```
HEADING
 White Tanks. Steady-State Drained,
 Units lbs-ft ,
 By ISG, Date Aug 2004
Profile Lines
1   1   Existing Dam
63      194
111.75  213.5
126.75  213.5
175.5   194

2   2   Common Fill
126.75  213.5
149.25  213.5
199.75  193.3
245     191.5

3   3   Foundation
0       191
63      194
175.5   194
203     183
228     183
245     191.5
300     191.5


Material Properties
1    Existing Dam
  125
  Conventional Shear
  0    28
  No Piezometric Line
2    Common Fill
  120
  Conventional Shear
  0    28
  No Piezometric Line
3    Foundation
  118
  Conventional Shear
  0     25
  No Piezometric Line

Analysis and Computations
circular search
230   240   5    150
POINT
130   205
STOP
Iterations
200
SEISMIC
0.06

Plot
compute
```

```
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        TABLE NO. 1
        ***************************************
        * COMPUTER PROGRAM DESIGNATION - UTEXAS3 *
        * Originally Coded By Stephen G. Wright  *
        * Version No. 1.208                      *
        * Last Revision Date  2/22/98            *
        * (C) Copyright 1985-1998 S. G. Wright   *
        * All Rights Reserved                    *
        ***************************************

        ***********************************************************
        *                                                         *
        *      RESULTS OF COMPUTATIONS PERFORMED USING THIS COMPUTER *
        * PROGRAM SHOULD NOT BE USED FOR DESIGN PURPOSES UNLESS THEY *
        * HAVE BEEN VERIFIED BY INDEPENDENT ANALYSES, EXPERIMENTAL  *
        * DATA OR FIELD EXPERIENCE. THE USER SHOULD UNDERSTAND THE  *
        * ALGORITHMS AND ANALYTICAL PROCEDURES USED IN THE COMPUTER *
        * PROGRAM AND MUST HAVE READ ALL DOCUMENTATION FOR THIS     *
        * PROGRAM BEFORE ATTEMPTING ITS USE.                        *
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         White Tanks. Steady-State Drained,
         Units lbs-ft ,
         By ISG, Date Aug 2004

        TABLE NO.  2
        ************************
        * NEW PROFILE LINE DATA *
        ************************

        PROFILE LINE  1 - MATERIAL TYPE =  1
        Existing Dam

             Point       X              Y

               1        63.000        194.000
               2       111.750        213.500
               3       126.750        213.500
               4       175.500        194.000

        PROFILE LINE  2 - MATERIAL TYPE =  2
        Common Fill

             Point       X              Y

               1       126.750        213.500
               2       149.250        213.500
```



```
               3       199.750        193.300
               4       245.000        191.500

        PROFILE LINE  3 - MATERIAL TYPE =  3
        Foundation

             Point       X              Y

               1          .000        191.000
               2        63.000        194.000
               3       175.500        194.000
               4       203.000        183.000
               5       228.000        183.000
               6       245.000        191.500
               7       300.000        191.500

        All new profile lines defined - No old lines retained
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         White Tanks. Steady-State Drained,
         Units lbs-ft ,
         By ISG, Date Aug 2004

        TABLE NO.  3
        ***************************************************************
        * NEW MATERIAL PROPERTY DATA - CONVENTIONAL/FIRST-STAGE COMPUTATIONS *
        ***************************************************************

        DATA FOR MATERIAL TYPE  1
        Existing Dam

             Unit weight of material =  125.000

             CONVENTIONAL (ISOTROPIC) SHEAR STRENGTHS
             Cohesion - - - - - - - -        .000
             Friction angle - - - - -  28.000 degrees

             No (or zero) pore water pressures

        DATA FOR MATERIAL TYPE  2
        Common Fill

             Unit weight of material =  120.000

             CONVENTIONAL (ISOTROPIC) SHEAR STRENGTHS
             Cohesion - - - - - - - -        .000
             Friction angle - - - - -  28.000 degrees

             No (or zero) pore water pressures

        DATA FOR MATERIAL TYPE  3
        Foundation

             Unit weight of material =  118.000

             CONVENTIONAL (ISOTROPIC) SHEAR STRENGTHS
             Cohesion - - - - - - - -        .000
```



```
             No (or zero) pore water pressures

        All new material properties defined - No old data retained
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         White Tanks. Steady-State Drained,
         Units lbs-ft ,
         By ISG, Date Aug 2004

        TABLE NO. 15
        ********************************
        * NEW ANALYSIS/COMPUTATION DATA *
        ********************************

        Circular Shear Surface(s)

        Automatic Search Performed

        Starting Center Coordinate for Search at -
                                                        X =      230.000
                                                        Y =      240.000

        Required accuracy for critical center (= minimum
        spacing between grid points) =        5.000

        Critical shear surface not allowed to pass below Y =      150.000

        For the initial mode of search
        all circles pass through the point at -
                                                        X =      130.000
                                                        Y =      205.000

        Search terminated after initial mode completed

        Maximum number of iterations allowed for
        calculating the factor of safety =  200

        Seismic coefficient =  .060

        ------------------------------------------------------------------
        THE FOLLOWING REPRESENT EITHER DEFAULT OR PREVIOUSLY DEFINED VALUES:

        Initial trial estimate for the factor of safety =   3.000

        Initial trial estimate for side force inclination =  15.000 degrees
        (Applicable to Spencer's procedure only)

        Allowed force imbalance for convergence =     100.000

        Allowed moment imbalance for convergence =     100.000

        Initial trial values for factor of safety (and side force inclination
        for Spencer's procedure) will be kept constant during search

        Maximum subtended angle to be used for subdivision of the
        circle into slices =   3.00 degrees

        Depth of crack =         .000
```



```
        Depth of water in crack =         .000

        Unit weight of water in crack =    62.400

        Conventional (single-stage) computations to be performed

        Procedure used to compute the factor of safety: SPENCER
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         White Tanks. Steady-State Drained,
         Units lbs-ft ,
         By ISG, Date Aug 2004

        TABLE NO. 16
        ************************
        * NEW SLOPE GEOMETRY DATA *
        ************************

        NOTE - NO DATA WERE INPUT, SLOPE GEOMETRY DATA
        WERE GENERATED BY THE PROGRAM

        Slope Coordinates -

             Point       X              Y

               1          .000        191.000
               2        63.000        194.000
               3       111.750        213.500
               4       126.750        213.500
               5       149.250        213.500
               6       199.750        193.300
               7       245.000        191.500
               8       300.000        191.500


        FATAL ERROR FOR INITIAL TRIAL CIRCLE FOR AUTOMATIC SEARCH
        SEARCH ABORTED - See Message on Next Line(s)
        CIRCLE DOES NOT INTERSECT SLOPE


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         Units lbs-ft ,
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        TABLE NO. 17
        INFORMATION FOR CURRENT MODE OF SEARCH - All Circles Pass Through
        the Fixed Point at   X =   130.000  and Y =   205.000
        ------------------------------------------------------------------
                                                 1-Stage
        Center Coordinates                       Factor  Side Force
                                                   of    Inclination
             X          Y        Radius         Safety   (degrees)   Iterations
```

Friction angle - - - - - 25.000 degrees

00.00 90.00 125.40 Center of circle is below lowest

```
                                point of slope - CIRCLE REJECTED
   230.00      90.00     152.40 Center of circle is below lowest
                                point of slope - CIRCLE REJECTED
   300.00      90.00     275.10 Center of circle is below lowest
                                point of slope - CIRCLE REJECTED
    80.00     240.00      61.03 Opposite slope face - CIRCLE REJECTED
   230.00     240.00     185.95 Bottom of circle exceeds allowable
                                depth - CIRCLE REJECTED
   300.00     240.00     252.44 Bottom of circle exceeds allowable
                                depth - CIRCLE REJECTED
    80.00     390.00     191.64 Opposite slope face - CIRCLE REJECTED
   230.00     390.00     210.30  2.255      -9.48          5
   300.00     390.00     311.01 Bottom of circle exceeds allowable
                                depth - CIRCLE REJECTED

    80.00     540.00     338.71 Opposite slope face - CIRCLE REJECTED
   230.00     540.00     349.61  1.998     -15.20          4
   300.00     540.00     418.00 Bottom of circle exceeds allowable
                                depth - CIRCLE REJECTED

    80.00     690.00     487.57 Opposite slope face - CIRCLE REJECTED
   230.00     690.00     495.20  2.280     -25.61          7
   300.00     690.00     545.64 Bottom of circle exceeds allowable
                                depth - CIRCLE REJECTED

   205.00     515.00     318.94  2.177     -21.61          6
   230.00     515.00     325.73  2.028     -13.10          5
   255.00     515.00     334.25 See Message on Next Line(s)
CIRCLE DOES NOT INTERSECT SLOPE

   205.00     540.00     343.29  2.268     -22.06          6
   255.00     540.00     357.56 See Message on Next Line(s)
CIRCLE DOES NOT INTERSECT SLOPE

   205.00     565.00     367.73 See Message on Next Line(s)
Last Trial Values =              2.443       3.74          4
(Last Trial Values Shown Above Are Not Correct Final Values)
VALUE OF SIDE FORCE INCLINATION BECAME OUTSIDE RANGE OF

FROM  -80.00 TO   10.00 DEGREES

   230.00     565.00     373.63  1.987     -18.77          5
   255.00     565.00     381.08 See Message on Next Line(s)
CIRCLE DOES NOT INTERSECT SLOPE


   205.00     590.00     392.24  2.446     -23.03          5
   230.00     590.00     397.78  2.000     -23.63          6
   255.00     590.00     404.78 See Message on Next Line(s)
CIRCLE DOES NOT INTERSECT SLOPE


   215.00     550.00     355.32  2.112     -22.58          5
   230.00     550.00     359.20  1.990     -16.50          5
   245.00     550.00     363.66 See Message on Next Line(s)
CIRCLE DOES NOT INTERSECT SLOPE

   215.00     565.00     369.90  2.161     -22.74          6
   245.00     565.00     377.92 See Message on Next Line(s)
CIRCLE DOES NOT INTERSECT SLOPE
```



```
   215.00     580.00     384.51  2.209     -23.06          6
   230.00     580.00     388.10  1.993     -21.50          5
   245.00     580.00     392.24  2.250     -10.02          6

   225.00     560.00     367.49  1.984     -23.10          6
   230.00     560.00     368.82  1.986     -17.97          5
   235.00     560.00     370.20  2.055     -13.46          5
   225.00     565.00     372.32  1.999     -23.22          6
   235.00     565.00     375.00  2.047     -13.90          5
   225.00     570.00     377.16  2.014     -23.28          5
   230.00     570.00     378.45  1.988     -19.63          5
   235.00     570.00     379.80  2.040     -14.40          5

   220.00     555.00     361.39  2.045     -22.88          6
   225.00     555.00     362.66  1.974     -22.66          6
   230.00     555.00     364.01  1.988     -17.21          5
   220.00     560.00     366.23  2.061     -22.91          6
   220.00     565.00     371.08  2.076     -22.94          6

   220.00     550.00     356.55  2.029     -22.87          5
   225.00     550.00     357.84  1.968     -21.04          6

   220.00     545.00     351.71  2.013     -22.84          5
   225.00     545.00     353.02  1.963     -20.95          5
   230.00     545.00     354.40  1.994     -15.86          5

   220.00     540.00     346.88  1.997     -22.78          6
   225.00     540.00     348.21  1.959     -20.13          6

   220.00     535.00     342.05  1.981     -22.74          6
   225.00     535.00     343.40  1.957     -19.29          5
   230.00     535.00     344.82  2.003     -14.75          4

   220.00     530.00     337.23  1.966     -22.69          6
   225.00     530.00     338.60  1.955     -18.53          6
   230.00     530.00     340.04  2.008     -14.27          5

   220.00     525.00     332.42  1.952     -22.41          6
   225.00     525.00     333.80  1.954     -17.80          6
   230.00     525.00     335.26  2.015     -13.84          5

   215.00     520.00     326.27  2.012     -22.38          5
   220.00     520.00     327.60  1.943     -21.86          6
   225.00     520.00     329.01  1.954     -17.16          5
   215.00     525.00     331.10  2.029     -22.42          5
   215.00     530.00     335.93  2.046     -22.43          6

   215.00     515.00     321.44  1.995     -22.32          6
   220.00     515.00     322.80  1.936     -21.15          6
   225.00     515.00     324.23  1.956     -16.52          5

   215.00     510.00     316.62  1.978     -22.28          6
   220.00     510.00     318.00  1.931     -20.40          6
   225.00     510.00     319.45  1.959     -15.93          5

   215.00     505.00     311.81  1.962     -22.23          6
   220.00     505.00     313.21  1.927     -19.64          6
   225.00     505.00     314.68  1.963     -15.40          5
```



```
   215.00     500.00     307.00  1.945     -22.18          6
   220.00     500.00     308.42  1.924     -18.90          6
   225.00     500.00     309.92  1.960     -14.91          5

   215.00     495.00     302.20  1.930     -22.00          6
   220.00     495.00     303.64  1.923     -18.20          6
   225.00     495.00     305.16  1.970     -14.47          5

   215.00     490.00     297.41  1.919     -21.58          6
   220.00     490.00     298.87  1.922     -17.54          6
   225.00     490.00     300.42  1.972     -14.05          5

   210.00     485.00     291.20  1.976     -21.81          6
   215.00     485.00     292.62  1.911     -21.02          6
   220.00     485.00     294.11  1.923     -16.93          6
   210.00     490.00     296.02  1.993     -21.88          5
   210.00     495.00     300.83  2.011     -21.89          5

   210.00     480.00     286.40  1.958     -21.76          6
   215.00     480.00     287.84  1.904     -20.41          6
   220.00     480.00     289.35  1.924     -16.37          6

   210.00     475.00     281.60  1.941     -21.71          6
   215.00     475.00     283.06  1.898     -19.76          6
   220.00     475.00     284.60  1.924     -15.86          5

   210.00     470.00     276.81  1.924     -21.66          6
   215.00     470.00     278.30  1.894     -19.10          6
   220.00     470.00     279.87  1.923     -15.30          5

   210.00     465.00     272.03  1.908     -21.54          6
   215.00     465.00     273.54  1.892     -18.45          6
   220.00     465.00     275.14  1.922     -14.93          5

   210.00     460.00     267.25  1.895     -21.22          6
   215.00     460.00     268.79  1.891     -17.82          6
   220.00     460.00     270.42  1.922     -14.51          5

   210.00     455.00     262.49  1.885     -20.79          6
   215.00     455.00     264.05  1.888     -17.24          6
   220.00     455.00     265.71  1.924     -14.12          5

   205.00     450.00     256.22  1.936     -21.22          5
   210.00     450.00     257.73  1.877     -20.27          7
   215.00     450.00     259.33  1.883     -16.70          6
   205.00     455.00     261.01  1.955     -21.31          5
   205.00     460.00     265.80  1.973     -21.36          5

   205.00     445.00     251.45  1.918     -21.19          6
   210.00     445.00     252.98  1.870     -19.71          7
   215.00     445.00     254.61  1.878     -16.18          6

   205.00     440.00     246.68  1.981     -21.13          6
   210.00     440.00     248.24  1.865     -19.11          7
   215.00     440.00     249.98  1.875     -15.69          6

   205.00     435.00     241.92  1.884     -21.04          6
   210.00     435.00     243.52  1.860     -18.54          7
   215.00     435.00     245.20  1.874     -15.24          5
```



```
   205.00     430.00     237.17 See Message on Next Line(s)
Last Trial Values =              1.952       3.99          5
(Last Trial Values Shown Above Are Not Correct Final Values)
VALUE OF SIDE FORCE INCLINATION BECAME OUTSIDE RANGE OF

FROM  -80.00 TO   10.00 DEGREES

   210.00     430.00     238.80  1.851     -17.99          7
   215.00     430.00     240.52  1.874     -14.82          5

   205.00     425.00     232.43 See Message on Next Line(s)
Last Trial Values =              1.942       3.89          5
(Last Trial Values Shown Above Are Not Correct Final Values)
VALUE OF SIDE FORCE INCLINATION BECAME OUTSIDE RANGE OF

FROM  -80.00 TO   10.00 DEGREES

   210.00     425.00     234.09  1.843     -17.44          7
   215.00     425.00     235.85  1.875     -14.43          5

   205.00     420.00     227.71 See Message on Next Line(s)
Last Trial Values =              1.934       3.79          5
(Last Trial Values Shown Above Are Not Correct Final Values)
VALUE OF SIDE FORCE INCLINATION BECAME OUTSIDE RANGE OF

FROM  -80.00 TO   10.00 DEGREES

   210.00     420.00     229.40  1.837     -16.90          7
   215.00     420.00     231.19  1.877     -14.00          5

   205.00     415.00     222.99 See Message on Next Line(s)
Last Trial Values =              1.929       3.70          5
(Last Trial Values Shown Above Are Not Correct Final Values)
VALUE OF SIDE FORCE INCLINATION BECAME OUTSIDE RANGE OF

FROM  -80.00 TO   10.00 DEGREES

   210.00     415.00     224.72  1.832     -16.39          6
   215.00     415.00     226.55  1.880     -13.75          6

   205.00     410.00     218.29 See Message on Next Line(s)
Last Trial Values =              1.918       3.57          5
(Last Trial Values Shown Above Are Not Correct Final Values)
VALUE OF SIDE FORCE INCLINATION BECAME OUTSIDE RANGE OF

FROM  -80.00 TO   10.00 DEGREES

   210.00     410.00     220.06  1.829     -15.89          6
   215.00     410.00     221.92  1.884     -13.44          6

   205.00     405.00     213.60 See Message on Next Line(s)
Last Trial Values =              1.910       3.44          5
(Last Trial Values Shown Above Are Not Correct Final Values)
VALUE OF SIDE FORCE INCLINATION BECAME OUTSIDE RANGE OF

FROM  -80.00 TO   10.00 DEGREES

   210.00     405.00     215.41  1.827     -15.43          6
   215.00     405.00     217.31  1.889     -13.17          6
```

```
    285.00    400.00    208.93 See Message on Next Line(s)
Last Trial Values =                 1.984       3.30        5
(Last Trial Values Shown Above Are Not Correct Final Values)
VALUE OF SIDE FORCE INCLINATION BECAME OUTSIDE RANGE OF

FROM  -80.00 TO   10.00 DEGREES

    210.00    400.00    210.77   1.827     -15.01        5
    215.00    400.00    212.72   1.894     -12.92        5

    285.00    395.00    204.27 See Message on Next Line(s)
Last Trial Values =                 1.902       3.17        5
(Last Trial Values Shown Above Are Not Correct Final Values)
VALUE OF SIDE FORCE INCLINATION BECAME OUTSIDE RANGE OF

FROM  -80.00 TO   10.00 DEGREES

    210.00    395.00    206.16   1.828     -14.62        5
    215.00    395.00    208.15   1.901     -12.69        6

At the end of the current mode of search the most critical
circle which was found has the following values -
X-center =    210.00     Y-center =    400.00     Radius =    210.77
Factor of Safety =   1.827     Side Force Inclination = -15.01


***** CAUTION ***** FACTOR OF SAFETY COULD NOT BE COMPUTED FOR SOME
                    OF GRID POINTS AROUND THE MINIMUM
***** RESULTS MAY BE ERRONEOUS *****
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 White Tanks. Steady-State Drained,
 Units lbs-ft ,
 By ISG, Date Aug 2004

TABLE NO. 21
*****  1-STAGE FINAL CRITICAL CIRCLE INFORMATION  *****
X Coordinate of Center - - - - - - -   210.000
Y Coordinate of Center - - - - - - -   400.000
Radius - - - - - - - - - - - - - - -   210.772
Factor of Safety - - - - - - - - - -     1.827
Side Force Inclination - - - - - - -    -15.01

Number of circles tried  - - - - - -  147
No. of circles F calc. for - - - - -  120


***** CAUTION ***** FACTOR OF SAFETY COULD NOT BE COMPUTED FOR SOME
                    OF GRID POINTS AROUND THE MINIMUM
***** RESULTS MAY BE ERRONEOUS *****
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 Units lbs-ft ,
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TABLE NO. 26
*****************************************************************
```



```
*  Coordinate, Weight, Strength and Pore Water Pressure        *
*  Information for Individual Slices for Conventional          *
*  Computations or First Stage of Multi-Stage Computations.    *
*  (Information is for the Critical Shear Surface in the       *
*  Case of an Automatic Search.)                               *
*****************************************************************
```

Slice No.	X	Y	Slice Weight	Mat'l. Type	Cohesion	Friction Angle	Pore Pressure
	111.8	213.5					
1	116.8	211.1	3028.3	1	.00	28.00	.0
	121.7	208.6					
2	124.2	207.5	3795.0	1	.00	28.00	.0
	126.8	206.4					
3	131.9	204.3	11655.5	1	.00	28.00	.0
	137.0	202.3					
4	142.2	200.5	16656.7	1	.00	28.00	.0
	147.4	198.7					
5	148.3	198.4	3315.5	1	.00	28.00	.0
	149.3	198.2					
6	154.6	196.7	19016.5	1	.00	28.00	.0
	159.9	195.3					
7	162.6	194.6	9047.2	1	.00	28.00	.0
	165.4	194.0					
8	170.5	193.0	14604.9	3	.00	25.00	.0
	175.5	192.1					
9	179.3	191.5	9111.8	3	.00	25.00	.0
	183.1	190.9					
10	188.6	190.4	9701.2	2	.00	28.00	.0
	194.1	189.8					
11	196.9	189.7	3232.2	2	.00	28.00	.0
	199.8	189.5					
12	201.4	189.4	1491.7	2	.00	28.00	.0
	203.0	189.3					
13	206.5	189.3	3146.4	2	.00	28.00	.0
	210.0	189.2					
14	215.5	189.4	4369.3	2	.00	28.00	.0
	221.0	189.5					
15	224.5	189.8	2139.0	2	.00	28.00	.0
	228.0	190.0					
16	233.5	190.6	1770.7	2	.00	28.00	.0
	239.0	191.2					
17	240.3	191.4	85.1	2	.00	28.00	.0
	241.7	191.6					

```
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 Units lbs-ft ,
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TABLE NO. 27
*****************************************************************
*  Seismic Forces and Forces Due to Surface Pressures for      *
*  Individual Slices for Conventional  Computations or the     *
*  First Stage of Multi-Stage Computations.                    *
*  (Information is for the Critical Shear Surface in the       *
*  Case of an Automatic Search.)                               *
*****************************************************************
```


FORCES DUE TO SURFACE PRESSURES

Slice No.	X	Seismic Force	Y for Seismic Force	Normal Force	Shear Force	X	Y
1	116.8	-181.	212.3	0.	0.	.0	.0
2	124.2	-228.	210.5	0.	0.	.0	.0
3	131.9	-699.	208.9	0.	0.	.0	.0
4	142.2	-999.	206.9	0.	0.	.0	.0
5	148.3	-199.	205.9	0.	0.	.0	.0
6	154.6	-1141.	204.0	0.	0.	.0	.0
7	162.6	-543.	201.3	0.	0.	.0	.0
8	170.5	-876.	199.0	0.	0.	.0	.0
9	179.3	-547.	196.5	0.	0.	.0	.0
10	188.6	-582.	194.1	0.	0.	.0	.0
11	196.9	-194.	192.0	0.	0.	.0	.0
12	201.4	-90.	191.3	0.	0.	.0	.0
13	206.5	-189.	191.2	0.	0.	.0	.0
14	215.5	-262.	191.0	0.	0.	.0	.0
15	224.5	-128.	191.0	0.	0.	.0	.0
16	233.5	-106.	191.3	0.	0.	.0	.0
17	240.3	-5.	191.6	0.	0.	.0	.0

```
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 Units lbs-ft ,
 By ISG, Date Aug 2004

TABLE NO. 29
*****************************************************************
*  Information Generated During Iterative Solution for the Factor *
*  of Safety and Side Force Inclination by Spencer's Procedure    *
*****************************************************************
```

Iter-ation	Trial Factor of Safety	Trial Side Force Inclination (degrees)	Force Imbalance (lbs.)	Moment Imbalance (ft.-lbs.)	Delta-F	Delta Theta (degrees)
1	3.00000	-15.0000	-.1276E+05	.2964E+07		
First-order corrections to F and THETA					-.194E+01	.359E-01
Values factored by .258E+00 - Deltas too large					-.500E+00	.926E-02
2	2.50000	-14.9907	-.8803E+04	.2044E+07		
First-order corrections to F and THETA					-.925E+00	.457E-01
Values factored by .541E+00 - Deltas too large					-.500E+00	.247E-01
3	2.00000	-14.9660	-.2037E+04	.6591E+06		
First-order corrections to F and THETA					-.189E+00	-.143E+00
Second-order correction - Iteration 1					-.174E+00	-.143E+00
Second-order correction - Iteration 2					-.174E+00	-.143E+00
4	1.82689	-15.1090	.2266E+02	-.6080E+04		
First-order corrections to F and THETA					.102E-02	.986E-01
Second-order correction - Iteration 1					.102E-02	.986E-01
5	1.82711	-15.0104	.6638E-03	-.5270E+01		
First-order corrections to F and THETA					-.147E-05	.625E-03


```
Factor of Safety - - - - - - - -     1.827
Side Force Inclination - - - - -    -15.01
Number of Iterations - - - - - -     5
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 White Tanks. Steady-State Drained,
 Units lbs-ft ,
 By ISG, Date Aug 2004

TABLE NO. 38
*****************************************************************
*  Final Results for Stresses Along the Shear Surface          *
*  (Results for Critical Shear Surface in Case of a Search.)   *
*****************************************************************

SPENCER'S PROCEDURE USED TO COMPUTE FACTOR OF SAFETY
Factor of Safety =  1.827     Side Force Inclination = -15.01 Degrees
```

-------- VALUES AT CENTER OF BASE OF SLICE--------

Slice No.	X-center	Y-center	Total Normal Stress	Effective Normal Stress	Shear Stress
1	116.8	211.1	250.7	250.7	73.0
2	124.2	207.5	631.1	631.1	183.7
3	131.9	204.3	977.1	977.1	284.4
4	142.2	200.5	1410.7	1410.7	410.5
5	148.3	198.4	1654.8	1654.8	481.6
6	154.6	196.7	1635.8	1635.8	476.0
7	162.6	194.6	1538.5	1538.5	447.7
8	170.5	193.0	1379.5	1379.5	352.1
9	179.3	191.5	1164.6	1164.6	297.2
10	188.6	190.4	888.1	888.1	258.5
11	196.9	189.7	589.4	589.4	171.5
12	201.4	189.4	478.0	478.0	139.1
13	206.5	189.3	474.9	474.9	138.2
14	215.5	189.4	429.5	429.5	125.0
15	224.5	189.8	341.9	341.9	99.5
16	233.5	190.6	184.9	184.9	53.8
17	240.3	191.4	36.0	36.0	10.5

```
CHECK SUMS - (ALL SHOULD BE SMALL)
SUM OF FORCES IN VERTICAL DIRECTION    =        .00  (=  .330E-02)
     SHOULD NOT EXCEED      .100E+03
SUM OF FORCES IN HORIZONTAL DIRECTION  =        .00  (=  .136E-02)
     SHOULD NOT EXCEED      .100E+03
SUM OF MOMENTS ABOUT COORDINATE ORIGIN =       4.70  (=  .470E+01)
     SHOULD NOT EXCEED      .100E+03
SHEAR STRENGTH/SHEAR FORCE CHECK-SUM   =        .00  (=  .973E-03)
     SHOULD NOT EXCEED      .100E+03
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Date:  8:26:2004   Time: 11: 0:33   Input file: ps20.inn
 White Tanks. Steady-State Drained,
 Units lbs-ft ,
 By ISG, Date Aug 2004
```

TABLE NO. 39

```
****************************************************************
*  Final Results for Side Forces and Stresses Between Slices.  *
*  (Results for Critical Shear Surface in Case of a Search.)   *
****************************************************************
```

SPENCER'S PROCEDURE USED TO COMPUTE FACTOR OF SAFETY
Factor of Safety = 1.827 Side Force Inclination = -15.01 Degrees

---------- VALUES AT RIGHT SIDE OF SLICE ----------

Slice No.	X-Right	Side Force	Y-Coord. of Side Force Location	Fraction of Height	Sigma at Top	Sigma at Bottom
1	121.7	708.	210.1	.295	-32.5	312.5
2	126.8	1454.	208.2	.260	-86.7	480.3
3	137.0	3300.	205.1	.248	-145.3	713.1
4	147.4	5078.	202.5	.253	-160.1	824.0
5	149.3	5330.	202.1	.255	-157.0	828.7
6	159.9	6101.	200.1	.344	27.6	826.9
7	165.4	6213.	199.2	.397	177.0	743.4
8	175.5	6195.	197.4	.484	495.5	599.4
9	183.1	5767.	196.2	.580	914.8	322.9
10	194.1	4461.	195.0	.899	2553.4	-1049.0
11	199.8	3874.	194.3	ABOVE	5423.3	-3465.6
12	203.0	3565.	193.8	ABOVE	4550.0	-2750.5
13	210.0	2816.	193.1	ABOVE	3173.5	-1689.2
14	221.0	1531.	192.2	.930	1804.3	-797.1
15	228.0	776.	192.1	.972	1318.9	-630.0
16	239.0	40.	191.7	.825	220.6	-70.9
17	241.7	0.	17865.3	ABOVE	.0	.0

CHECK SUMS - (ALL SHOULD BE SMALL)
SUM OF FORCES IN VERTICAL DIRECTION = .00 (= .330E-02)
SHOULD NOT EXCEED .100E+03
SUM OF FORCES IN HORIZONTAL DIRECTION = .00 (= .136E-02)
SHOULD NOT EXCEED .100E+03
SUM OF MOMENTS ABOUT COORDINATE ORIGIN = 4.70 (= .470E+01)
SHOULD NOT EXCEED .100E+03
SHEAR STRENGTH/SHEAR FORCE CHECK-SUM = .00 (= .973E-03)
SHOULD NOT EXCEED .100E+03

***** CAUTION ***** SOME OF THE FORCES BETWEEN SLICES ACT AT POINTS ABOVE THE SURFACE OF THE SLOPE OR BELOW THE SHEAR SURFACE - EITHER A TENSION CRACK MAY BE NEEDED OR THE SOLUTION MAY NOT BE A VALID SOLUTION

END-OF-FILE ENCOUNTERED WHILE READING COMMAND
WORDS - END OF PROBLEM(S) ASSUMED

```
HEADING
 White Tanks. Rapid Drawdown,
 Units lbs-ft ,
 By ISG, Date Aug 2004
Profile Lines
1   1   Existing Dam
63      194
111.75  213.5
126.75  213.5
175.5   194

2   2   Common Fill
126.75  213.5
149.25  213.5
199.75  193.3
245     191.5

3   3   Foundation
0       191
63      194
175.5   194
203     183
228     183
245     191.5
300     191.5


Material Properties
1    Existing Dam
  125
  Conventional Shear
  500    19
  Piezometric Line
  1
2    Common Fill
  120
  Conventional Shear
  500    19
  Piezometric Line
  1
3    Foundation
  118
  Conventional Shear
  0     30
  Piezometric Line
  1

Piezometric Line
1   62.4
0        175
123      188
124      194
130      201
149.25   213.5
199.75   193.3
245      191.5
300      191.5


Analysis and Computations
circular search
230   240   5    150
POINT
199.75   193.3
STOP
Iterations
200

Plot
compute
```

```
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        Date:  8:26:2004   Time: 15: 8:37   Input file: rd20.inn


        TABLE NO. 1
        ***********************************
        * COMPUTER PROGRAM DESIGNATION - UTEXAS3 *
        * Originally Coded By Stephen G. Wright  *
        * Version No. 1.208                      *
        * Last Revision Date  2/22/98            *
        * (C) Copyright 1985-1998 S. G. Wright   *
        * All Rights Reserved                    *
        ***********************************

        ****************************************************************
        *                                                              *
        *      RESULTS OF COMPUTATIONS PERFORMED USING THIS COMPUTER   *
        * PROGRAM SHOULD NOT BE USED FOR DESIGN PURPOSES UNLESS THEY   *
        * HAVE BEEN VERIFIED BY INDEPENDENT ANALYSES, EXPERIMENTAL     *
        * DATA OR FIELD EXPERIENCE. THE USER SHOULD UNDERSTAND THE     *
        * ALGORITHMS AND ANALYTICAL PROCEDURES USED IN THE COMPUTER    *
        * PROGRAM AND MUST HAVE READ ALL DOCUMENTATION FOR THIS        *
        * PROGRAM BEFORE ATTEMPTING ITS USE.                           *
        *                                                              *
        *      NEITHER SHINOAK SOFTWARE NOR STEPHEN G. WRIGHT          *
        * MAKE OR ASSUME LIABILITY FOR ANY WARRANTIES, EXPRESSED OR    *
        * IMPLIED, CONCERNING THE ACCURACY, RELIABILITY, USEFULNESS    *
        * OR ADAPTABILITY OF THIS COMPUTER PROGRAM.                    *
        *                                                              *
        ****************************************************************
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         White Tanks. Rapid Drawdown,
         Units lbs-ft ,
         By ISG, Date Aug 2004

        TABLE NO.  2
        ***************************
        * NEW PROFILE LINE DATA *
        ***************************

        PROFILE LINE  1 - MATERIAL TYPE =  1
        Existing Dam

             Point       X              Y

               1        63.000        194.000
               2       111.750        213.500
               3       126.750        213.500
               4       175.500        194.000

        PROFILE LINE  2 - MATERIAL TYPE =  2
        Common Fill

             Point       X              Y

               1       126.750        213.500
               2       149.250        213.500
```



```
               3       199.750        193.300
               4       245.000        191.500

        PROFILE LINE  3 - MATERIAL TYPE =  3
        Foundation

             Point       X              Y

               1          .000        191.000
               2        63.000        194.000
               3       175.500        194.000
               4       203.000        183.000
               5       228.000        183.000
               6       245.000        191.500
               7       300.000        191.500

        All new profile lines defined - No old lines retained
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         White Tanks. Rapid Drawdown,
         Units lbs-ft ,
         By ISG, Date Aug 2004

        TABLE NO.  3
        ****************************************************************
        * NEW MATERIAL PROPERTY DATA - CONVENTIONAL/FIRST-STAGE COMPUTATIONS *
        ****************************************************************

        DATA FOR MATERIAL TYPE  1
        Existing Dam

             Unit weight of material =  125.000

             CONVENTIONAL (ISOTROPIC) SHEAR STRENGTHS
             Cohesion - - - - - - - -      500.000
             Friction angle - - - - -  19.000 degrees

             Pore water pressures defined by piezometric line
             Number of the piezometric line used =  1
             Negative pore pressures set to zero

        DATA FOR MATERIAL TYPE  2
        Common Fill

             Unit weight of material =  128.000

             CONVENTIONAL (ISOTROPIC) SHEAR STRENGTHS
             Cohesion - - - - - - - -      500.000
             Friction angle - - - - -  19.000 degrees

             Pore water pressures defined by piezometric line
             Number of the piezometric line used =  1
             Negative pore pressures set to zero

        DATA FOR MATERIAL TYPE  3
        Foundation
```



```
             CONVENTIONAL (ISOTROPIC) SHEAR STRENGTHS
             Cohesion - - - - - - - -          .000
             Friction angle - - - - -  30.000 degrees     ;

             Pore water pressures defined by piezometric line
             Number of the piezometric line used =  1
             Negative pore pressures set to zero

        All new material properties defined - No old data retained
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         Units lbs-ft ,
         By ISG, Date Aug 2004

        TABLE NO.  5
        ****************************************************************
        * NEW PIEZOMETRIC LINE DATA - CONVENTIONAL/FIRST-STAGE COMPUTATIONS *
        ****************************************************************

        Line
         No.    Point        X            Y

          1 - Unit weight of water =   62.40
          1        1         .000      175.000
          1        2      123.000      188.000
          1        3      124.000      194.000
          1        4      130.000      201.000
          1        5      149.250      213.500
          1        6      199.750      193.300
          1        7      245.000      191.500
          1        8      300.000      191.500

        All new piezometric lines defined - No old lines retained
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         Units lbs-ft ,
         By ISG, Date Aug 2004

        TABLE NO. 15
        ***********************************
        * NEW ANALYSIS/COMPUTATION DATA *
        ***********************************

        Circular Shear Surface(s)

        Automatic Search Performed

        Starting Center Coordinate for Search at -
                                                        X =      230.000
                                                        Y =      240.000

        Required accuracy for critical center (= minimum
        spacing between grid points) =        5.000

        Critical shear surface not allowed to pass below Y =      150.000
```



```
        For the initial mode of search
        all circles pass through the point at -
                                                        X =      199.750
                                                        Y =      193.300

        Search terminated after initial mode completed

        Maximum number of iterations allowed for
        calculating the factor of safety =  200

        ----------------------------------------------------------------
        THE FOLLOWING REPRESENT EITHER DEFAULT OR PREVIOUSLY DEFINED VALUES:

        Initial trial estimate for the factor of safety =   3.000

        Initial trial estimate for side force inclination =  15.000 degrees
        (Applicable to Spencer's procedure only)

        Allowed force imbalance for convergence =     100.000

        Allowed moment imbalance for convergence =     100.000

        Initial trial values for factor of safety (and side force inclination
        for Spencer's procedure) will be kept constant during search

        Maximum subtended angle to be used for subdivision of the
        circle into slices =   3.00 degrees

        Depth of crack =         .000

        Depth of water in crack =         .000

        Unit weight of water in crack =    62.400

        Seismic coefficient =  .000

        Conventional (single-stage) computations to be performed

        Procedure used to compute the factor of safety: SPENCER
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         White Tanks. Rapid Drawdown,
         Units lbs-ft ,
         By ISG, Date Aug 2004

        TABLE NO. 16
        ***************************
        * NEW SLOPE GEOMETRY DATA *
        ***************************

        NOTE - NO DATA WERE INPUT, SLOPE GEOMETRY DATA
        WERE GENERATED BY THE PROGRAM

        Slope Coordinates -

             Point       X              Y
```

Unit weight of material = 118.000

1	.000	191.000
2	63.000	194.000

3	111.750	213.500
4	126.750	213.500
5	149.250	213.500
6	199.750	193.300
7	245.000	191.500
8	300.000	191.500

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White Tanks. Rapid Drawdown,
Units lbs-ft ,
By ISG, Date Aug 2004

TABLE NO. 17
INFORMATION FOR CURRENT MODE OF SEARCH - All Circles Pass Through the Fixed Point at X = 199.750 and Y = 193.300

Center Coordinates X	Y	Radius	1-Stage Factor of Safety	Side Force Inclination (degrees)	Iterations
80.00	90.00	158.15	Center of circle is below lowest point of slope - CIRCLE REJECTED		
230.00	90.00	107.64	Center of circle is below lowest point of slope - CIRCLE REJECTED		
380.00	90.00	207.75	Center of circle is below lowest point of slope - CIRCLE REJECTED		
80.00	240.00	120.53	Bottom of circle exceeds allowable depth - CIRCLE REJECTED		
230.00	240.00	55.64	20.081	-1.39	38
380.00	240.00	186.20	Bottom of circle exceeds allowable depth - CIRCLE REJECTED		
80.00	390.00	230.28	See Message on Next Line(s)		
CIRCLE DOES NOT INTERSECT SLOPE					
230.00	390.00	199.01	4.180	-15.53	5
380.00	390.00	266.80	Bottom of circle exceeds allowable depth - CIRCLE REJECTED		
80.00	540.00	366.80	See Message on Next Line(s)		
CIRCLE DOES NOT INTERSECT SLOPE					
230.00	540.00	348.02	3.860	-8.56	5
380.00	540.00	390.76	Bottom of circle exceeds allowable depth - CIRCLE REJECTED		
80.00	690.00	510.93	See Message on Next Line(s)		
CIRCLE DOES NOT INTERSECT SLOPE					
230.00	690.00	497.62	4.355	-7.16	5
380.00	690.00	528.39	See Message on Next Line(s)		
Last Trial Values =			103.000	-15.13	201

(Last Trial Values Shown Above Are Not Correct Final Values)
FATAL ERROR IN CALCULATING FACTOR OF SAFETY

SOLUTION DID NOT CONVERGE WITHIN 200 ITERATIONS

205.00	515.00	321.74	3.907	-7.46	5
230.00	515.00	323.12	3.824	-8.74	4
255.00	515.00	326.41	4.258	-13.68	5
205.00	540.00	346.74	4.070	-7.11	5
255.00	540.00	351.07	4.157	-12.21	5
205.00	565.00	371.74	4.241	-6.79	5
230.00	565.00	372.93	3.898	-8.53	5
255.00	565.00	375.78	4.109	-11.12	5
205.00	490.00	296.75	3.754	-7.82	4
230.00	490.00	298.24	3.776	-9.71	4
255.00	490.00	301.80	4.467	-14.93	6
180.00	465.00	272.42	4.028	-5.00	5
205.00	465.00	271.75	3.618	-8.10	4
230.00	465.00	273.30	3.753	-10.88	4
180.00	490.00	297.36	4.297	-4.72	5
180.00	515.00	322.31	4.566	-4.47	6
180.00	440.00	247.49	3.761	-5.32	4
205.00	440.00	246.76	3.506	-8.44	4
230.00	440.00	248.55	3.789	-12.29	4
180.00	415.00	222.58	3.496	-5.67	4
205.00	415.00	221.76	3.423	-8.46	4
230.00	415.00	223.75	3.892	-13.86	4
180.00	390.00	197.69	3.234	-6.07	3
205.00	390.00	196.77	3.304	-9.25	3
230.00	390.00	199.01	4.180	-15.53	5
155.00	365.00	177.44	Center of circle falls outside of current grid - Grid re-initialized		
155.00	365.00	177.44	5.317	-3.55	7
180.00	365.00	172.83	2.975	-6.46	3
205.00	365.00	171.78	3.213	-10.53	3
155.00	390.00	201.73	5.850	-3.27	8
205.00	390.00	196.77	3.304	-9.25	3
155.00	415.00	226.17	6.384	-3.05	9
180.00	415.00	222.58	3.496	-5.67	4
205.00	415.00	221.76	3.423	-8.46	4
155.00	340.00	153.37	4.791	-3.89	6
180.00	340.00	148.02	2.728	-6.75	4
205.00	340.00	146.79	3.173	-12.10	3
155.00	315.00	129.67	4.288	-4.27	5
180.00	315.00	123.29	2.502	-6.66	6
205.00	315.00	121.81	3.244	-14.19	3
155.00	290.00	106.55	3.817	-4.74	4
180.00	290.00	98.70	2.254	-6.78	6
205.00	290.00	96.84	3.738	-15.93	4
155.00	265.00	84.52	3.426	-5.24	4
180.00	265.00	74.37	1.983	-7.36	7
205.00	265.00	71.89	5.588	-13.39	8
155.00	240.00	64.68	3.239	-5.56	4

180.00	240.00	50.70	1.729	-7.98	6
205.00	240.00	46.99	10.746	-13.01	19
155.00	215.00	49.73	Center of circle falls outside of current grid - Grid re-initialized		
155.00	215.00	49.73	3.753	-4.39	6
180.00	215.00	29.34	1.771	-3.81	7
205.00	215.00	22.33	77.099	-13.70	151
155.00	240.00	64.68	3.239	-5.56	4
205.00	240.00	46.99	10.746	-13.01	19
155.00	265.00	84.52	3.426	-5.24	4
180.00	265.00	74.37	1.983	-7.36	7
205.00	265.00	71.89	5.588	-13.39	8
165.00	225.00	47.04	2.242	-6.15	4
180.00	225.00	37.35	1.661	-7.70	7
195.00	225.00	32.05	4.714	-12.36	7
165.00	240.00	58.21	2.177	-6.77	4
195.00	240.00	46.94	3.860	-13.00	5
165.00	255.00	70.81	2.245	-6.96	4
180.00	255.00	64.78	1.875	-7.60	6
195.00	255.00	61.88	3.267	-13.61	3
165.00	210.00	38.55	2.668	-4.12	5
180.00	210.00	25.86	1.896	-3.89	8
195.00	210.00	17.36	6.002	-10.99	9
175.00	220.00	36.41	1.711	-6.10	7
180.00	220.00	33.21	1.691	-6.70	7
185.00	220.00	30.50	2.057	-6.39	7
175.00	225.00	40.22	1.684	-6.68	6
185.00	225.00	34.96	2.034	-7.63	7
175.00	230.00	44.27	1.686	-6.90	8
180.00	230.00	41.68	1.666	-8.01	6
185.00	230.00	39.55	2.011	-8.72	6

At the end of the current mode of search the most critical circle which was found has the following values -
X-center = 180.00 Y-center = 225.00 Radius = 37.35
Factor of Safety = 1.661 Side Force Inclination = -7.70
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White Tanks. Rapid Drawdown,
Units lbs-ft ,
By ISG, Date Aug 2004

TABLE NO. 21
***** 1-STAGE FINAL CRITICAL CIRCLE INFORMATION *****

X Coordinate of Center - - - - - - - -	180.000
Y Coordinate of Center - - - - - - - -	225.000
Radius - - - - - - - - - - - - - - - -	37.349
Factor of Safety - - - - - - - - - - -	1.661
Side Force Inclination - - - - - - - -	-7.70
Number of circles tried - - - - - - -	90
No. of circles F calc. for - - - - - -	79

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White Tanks. Rapid Drawdown,
Units lbs-ft ,
By ISG, Date Aug 2004

TABLE NO. 26
****
* Coordinate, Weight, Strength and Pore Water Pressure *
* Information for Individual Slices for Conventional *
* Computations or First Stage of Multi-Stage Computations. *
* (Information is for the Critical Shear Surface in the *
* Case of an Automatic Search.) *
****

Slice No.	X	Y	Slice Weight	Matl. Type	Cohesion	Friction Angle	Pore Pressure
	144.5	213.5					
1	144.8	212.6	72.8	2	500.00	19.00	.0
	145.1	211.7					
2	145.2	211.3	68.9	2	500.00	19.00	.0
	145.4	211.0					
3	145.8	210.1	319.5	2	500.00	19.00	71.8
	146.2	209.2					
4	146.6	208.3	543.1	2	500.00	19.00	215.8
	147.0	207.4					
5	147.5	206.6	798.9	2	500.00	19.00	360.7
	148.0	205.7					
6	148.3	205.2	610.3	2	500.00	19.00	476.6
	148.6	204.8					
7	148.9	204.3	704.6	1	500.00	19.00	562.6
	149.3	203.8					
8	149.8	203.0	1424.9	1	500.00	19.00	640.1
	150.4	202.2					
9	151.0	201.5	1690.5	1	500.00	19.00	707.0
	151.6	200.7					
10	152.3	200.0	1957.0	1	500.00	19.00	767.9
	152.9	199.3					
11	153.6	198.6	2219.5	1	500.00	19.00	822.7
	154.3	197.9					
12	155.1	197.2	2473.4	1	500.00	19.00	871.1
	155.8	196.6					
13	156.5	196.0	2714.0	1	500.00	19.00	913.0
	157.3	195.3					
14	158.1	194.8	2937.1	1	500.00	19.00	948.4
	158.9	194.2					
15	159.0	194.1	528.0	1	500.00	19.00	966.8
	159.2	194.0					
16	160.0	193.5	3165.1	3	.00	30.00	981.3
	160.8	193.0					
17	161.7	192.5	3324.8	3	.00	30.00	1002[illegible]
	162.5	192.0					
18	163.4	191.6	3456.0	3	.00	30.00	1016.1
	164.3	191.1					
19	165.2	190.7	3556.3	3	.00	30.00	1023.2
	166.1	190.3					
20	167.0	190.0	3623.5	3	.00	30.00	1023.4
	167.9	189.7					

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TABLE NO. 26

Coordinate, Weight, Strength and Pore Water Pressure
Information for Individual Slices for Conventional
Computations or First Stage of Multi-Stage Computations.
(Information is for the Critical Shear Surface in the
Case of an Automatic Search.)

Slice No.	X	Y	Slice Weight	Matl. Type	Cohesion	Friction Angle	Pore Pressure
	167.9	189.7					
21	168.8	189.4	3655.9	3	.00	30.00	1016.7
	169.8	189.1					
22	170.7	188.8	3652.5	3	.00	30.00	1003.2
	171.7	188.6					
23	172.6	188.4	3612.7	3	.00	30.00	982.9
	173.6	188.2					
24	174.5	188.1	3513.5	3	.00	30.00	955.9
	175.5	187.9					
25	176.5	187.8	3430.0	3	.00	30.00	922.3
	177.4	187.7					
26	178.4	187.7	3293.4	3	.00	30.00	881.9
	179.4	187.7					
27	179.7	187.7	978.0	3	.00	30.00	852.8
	180.0	187.7					
28	181.0	187.7	3064.3	3	.00	30.00	819.5
	182.0	187.7					
29	182.9	187.8	2852.7	3	.00	30.00	764.4
	183.9	187.9					
30	184.9	188.0	2612.4	3	.00	30.00	703.1
	185.8	188.1					
31	186.8	188.3	2346.3	3	.00	30.00	635.8
	187.8	188.5					
32	188.3	188.6	1116.7	3	.00	30.00	581.2
	188.8	188.7					
33	189.7	188.9	1896.0	2	500.00	19.00	522.2
	190.7	189.2					
34	191.6	189.5	1575.1	2	500.00	19.00	440.6
	192.5	189.8					
35	193.4	190.2	1241.4	2	500.00	19.00	353.8
	194.3	190.5					
36	195.2	190.9	899.2	2	500.00	19.00	261.9
	196.1	191.3					
37	197.0	191.8	553.3	2	500.00	19.00	165.3
	197.9	192.2					
38	198.7	192.7	208.5	2	500.00	19.00	64.1
	199.6	193.2					
39	199.7	193.2	2.3	2	500.00	19.00	6.2
	199.8	193.3					

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Units lbs-ft ,
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TABLE NO. 27

Seismic Forces and Forces Due to Surface Pressures for
Individual Slices for Conventional Computations or the
First Stage of Multi-Stage Computations.
(Information is for the Critical Shear Surface in the
Case of an Automatic Search.)

				FORCES DUE TO SURFACE PRESSURES			
Slice No.	X	Seismic Force	Y for Seismic Force	Normal Force	Shear Force	X	Y
1	144.8	0.	213.0	0.	0.	.0	.0
2	145.2	0.	212.4	0.	0.	.0	.0
3	145.8	0.	211.8	0.	0.	.0	.0
4	146.6	0.	210.9	0.	0.	.0	.0
5	147.5	0.	210.0	0.	0.	.0	.0
6	148.3	0.	209.4	0.	0.	.0	.0
7	148.9	0.	208.9	0.	0.	.0	.0
8	149.8	0.	208.1	0.	0.	.0	.0
9	151.0	0.	207.1	0.	0.	.0	.0
10	152.3	0.	206.1	0.	0.	.0	.0
11	153.6	0.	205.1	0.	0.	.0	.0
12	155.1	0.	204.1	0.	0.	.0	.0
13	156.5	0.	203.2	0.	0.	.0	.0
14	158.1	0.	202.3	0.	0.	.0	.0
15	159.0	0.	201.8	0.	0.	.0	.0
16	160.0	0.	201.3	0.	0.	.0	.0
17	161.7	0.	200.5	0.	0.	.0	.0
18	163.4	0.	199.7	0.	0.	.0	.0
19	165.2	0.	198.9	0.	0.	.0	.0
20	167.0	0.	198.2	0.	0.	.0	.0
21	168.8	0.	197.5	0.	0.	.0	.0
22	170.7	0.	196.9	0.	0.	.0	.0
23	172.6	0.	196.3	0.	0.	.0	.0
24	174.5	0.	195.8	0.	0.	.0	.0
25	176.5	0.	195.3	0.	0.	.0	.0
26	178.4	0.	194.8	0.	0.	.0	.0
27	179.7	0.	194.5	0.	0.	.0	.0
28	181.0	0.	194.3	0.	0.	.0	.0
29	182.9	0.	193.9	0.	0.	.0	.0
30	184.9	0.	193.6	0.	0.	.0	.0
31	186.8	0.	193.4	0.	0.	.0	.0
32	188.3	0.	193.2	0.	0.	.0	.0
33	189.7	0.	193.1	0.	0.	.0	.0
34	191.6	0.	193.0	0.	0.	.0	.0
35	193.4	0.	193.0	0.	0.	.0	.0
36	195.2	0.	193.0	0.	0.	.0	.0
37	197.0	0.	193.1	0.	0.	.0	.0
38	198.7	0.	193.2	0.	0.	.0	.0
39	199.7	0.	193.3	0.	0.	.0	.0

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TABLE NO. 29

Information Generated During Iterative Solution for the Factor
of Safety and Side Force Inclination by Spencer's Procedure

Iter-ation	Trial Factor of Safety	Trial Side Force Inclination (degrees)	Force Imbalance (lbs.)	Moment Imbalance (ft.-lbs.)	Delta-F	Delta Theta (degrees)
1	3.00000	-15.0000	-.9634E+04	.2189E+07		
First-order corrections to F and THETA					-.187E+01	-.425E+01
Values factored by .268E+00 - Deltas too large					-.500E+00	-.114E+01
2	2.50000	-16.1381	-.6574E+04	.1484E+07		
First-order corrections to F and THETA					-.599E+00	-.114E+02
Values factored by .757E+00 - Deltas too large					-.453E+00	-.859E+01
3	2.04696	-24.7325	-.3667E+03	-.4045E+05		
First-order corrections to F and THETA					-.482E+00	.148E+02
Values factored by .581E+00 - Deltas too large					-.280E+00	.859E+01
4	1.76647	-16.1381	.5152E+03	-.1797E+06		
First-order corrections to F and THETA					-.951E-01	.678E+01
Second-order correction - Iteration 1					-.795E-01	.678E+01
Second-order correction - Iteration 2					-.794E-01	.678E+01
Second-order correction - Iteration 3					-.794E-01	.678E+01
5	1.68709	-9.3579	-.2450E+02	-.5295E+04		
First-order corrections to F and THETA					-.270E-01	.164E+01
Second-order correction - Iteration 1					-.263E-01	.164E+01
Second-order correction - Iteration 2					-.263E-01	.164E+01
6	1.66004	-7.7169	-.2705E-01	-.9692E+02		
First-order corrections to F and THETA					-.238E-03	.162E-01
Second-order correction - Iteration 1					-.237E-03	.162E-01
7	1.66060	-7.7007	-.1205E-02	.3198E+00		
First-order corrections to F and THETA					.553E-07	-.940E-05

Factor of Safety - - - - - - - - 1.661
Side Force Inclination - - - - - -7.70
Number of Iterations - - - - - - 7

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Units lbs-ft ,
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TABLE NO. 30

Final Results for Stresses Along the Shear Surface
(Results for Critical Shear Surface in Case of a Search.)

SPENCER'S PROCEDURE USED TO COMPUTE FACTOR OF SAFETY
Factor of Safety = 1.661 Side Force Inclination = -7.70 Degrees

--------- VALUES AT CENTER OF BASE OF SLICE---------

Slice No.	X-center	Y-center	Total Normal Stress	Effective Normal Stress	Shear Stress
1	144.8	212.6	-361.4	-361.4	226.2
2	145.2	211.3	-251.2	-251.2	249.0
3	145.8	210.1	-119.0	-190.7	261.5
4	146.6	208.3	86.3	-129.5	274.2
5	147.5	206.6	291.7	-68.9	286.8
6	148.3	205.2	455.4	-21.3	296.7
7	148.9	204.3	576.0	14.2	304.0
8	149.8	203.0	713.6	73.5	316.3
9	151.0	201.5	862.4	155.4	333.3
10	152.3	200.0	1003.0	235.1	349.8
11	153.6	198.6	1134.7	312.0	365.8
12	155.1	197.2	1256.7	385.7	381.1
13	156.5	196.0	1368.6	455.6	395.6
14	158.1	194.8	1469.7	521.4	409.2
15	159.0	194.1	1525.3	558.4	416.9
16	160.0	193.5	1657.5	676.2	235.1
17	161.7	192.5	1714.9	712.8	247.8
18	163.4	191.6	1761.4	745.4	259.1
19	165.2	190.7	1796.6	773.4	268.9
20	167.0	190.0	1820.0	796.6	277.0
21	168.8	189.4	1831.3	814.5	283.2
22	170.7	188.8	1830.1	826.8	287.5
23	172.6	188.4	1816.0	833.1	289.6
24	174.5	188.1	1788.9	833.0	289.6
25	176.5	187.8	1751.2	828.9	288.2
26	178.4	187.7	1702.6	820.6	285.3
27	179.7	187.7	1664.0	812.0	282.3
28	181.0	187.7	1618.2	798.7	277.7
29	182.9	187.8	1537.3	772.9	268.7
30	184.9	188.0	1441.8	738.7	256.8
31	186.8	188.3	1331.2	695.4	241.8
32	188.3	188.6	1237.6	656.5	228.2
33	189.7	188.9	1230.2	708.0	447.9
34	191.6	189.5	1097.6	657.0	437.3
35	193.4	190.2	951.1	597.3	425.0
36	195.2	190.9	798.4	528.5	410.7
37	197.0	191.8	615.2	450.0	394.4
38	198.7	192.7	425.0	360.9	375.9
39	199.7	193.2	313.1	306.9	364.7

CHECK SUMS - (ALL SHOULD BE SMALL)
SUM OF FORCES IN VERTICAL DIRECTION = .00 (= .199E-02)
SHOULD NOT EXCEED .100E+03
SUM OF FORCES IN HORIZONTAL DIRECTION = .01 (= .559E-02)
SHOULD NOT EXCEED .100E+03
SUM OF MOMENTS ABOUT COORDINATE ORIGIN = -.38 (= -.376E+00)
SHOULD NOT EXCEED .100E+03
SHEAR STRENGTH/SHEAR FORCE CHECK-SUM = .00 (= .923E-03)
SHOULD NOT EXCEED .100E+03

```
      ***** CAUTION ***** EFFECTIVE OR TOTAL NORMAL STRESS ON SHEAR
                          SURFACE IS NEGATIVE AT POINTS ALONG THE
                          UPPER ONE-HALF OF THE SHEAR SURFACE - A
                          TENSION CRACK MAY BE NEEDED.
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      TABLE NO. 39
      ****************************************************************
      *  Final Results for Side Forces and Stresses Between Slices.  *
      *  (Results for Critical Shear Surface in Case of a Search.)   *
      ****************************************************************

      SPENCER'S PROCEDURE USED TO COMPUTE FACTOR OF SAFETY
      Factor of Safety =  1.661     Side Force Inclination =  -7.70 Degrees
```

VALUES AT RIGHT SIDE OF SLICE

Slice No.	X-Right	Side Force	Y-Coord. of Side Force Location	Fraction of Height	Sigma at Top	Sigma at Bottom
1	145.1	-821.	212.5	.476	-378.0	-504.3
2	145.4	-1057.	212.2	.495	-405.1	-428.2
3	146.2	-1478.	211.5	.543	-427.3	-253.1
4	147.0	-1568.	211.2	.626	-449.8	-63.3
5	148.0	-1346.	211.9	.788	-469.1	125.2
6	148.6	-1076.	213.4	.991	-480.9	237.1
7	149.3	-716.	217.9	ABOVE	-492.1	345.7
8	150.4	54.	7.4	BELOW	-547.0	556.9
9	151.6	961.	190.4	BELOW	-579.8	740.6
10	152.9	1967.	195.2	BELOW	-597.7	903.0
11	154.3	3037.	196.2	BELOW	-604.6	1047.2
12	155.0	4134.	196.3	BELOW	-602.7	1174.8
13	157.3	5223.	196.1	.040	-593.5	1286.4
14	158.9	6270.	195.6	.094	-577.9	1382.0
15	159.2	6444.	195.6	.100	-574.5	1396.8
16	160.8	7805.	195.0	.120	-590.0	1569.7
17	162.5	9040.	194.4	.151	-606.0	1712.1
18	164.3	10128.	193.9	.170	-601.9	1828.3
19	166.1	11049.	193.4	.186	-588.5	1921.6
20	167.9	11788.	193.0	.201	-567.7	1994.5
21	169.8	12336.	192.5	.214	-540.9	2048.9
22	171.7	12684.	192.2	.226	-509.4	2086.3
23	173.6	12832.	191.9	.237	-474.1	2108.4
24	175.5	12784.	191.6	.247	-436.3	2116.7
25	177.4	12544.	191.5	.256	-396.4	2113.0
26	179.4	12123.	191.3	.265	-355.8	2098.9
27	180.0	11960.	191.3	.268	-343.4	2093.0
28	182.0	11329.	191.2	.276	-304.5	2070.3
29	183.9	10563.	191.2	.283	-270.2	2046.9
30	185.8	9689.	191.2	.287	-246.2	2032.2
31	187.8	8741.	191.2	.288	-243.2	2042.9
32	188.0	8227.	191.3	.286	-256.6	2068.5
33	190.7	6743.	191.5	.297	-190.7	1918.1
34	192.5	5251.	191.0	.300	-124.4	1753.9

35	194.3	3793.	192.1	.321	-56.7	1574.6
36	196.1	2417.	192.5	.337	14.9	1377.3
37	197.9	1172.	192.9	.360	100.9	1151.1
38	199.6	110.	193.3	.394	198.2	898.2
39	199.8	0.	193.3	.500	.0	.0

```
      CHECK SUMS - (ALL SHOULD BE SMALL)
      SUM OF FORCES IN VERTICAL DIRECTION    =        .00  (=  .199E-02)
           SHOULD NOT EXCEED      .100E+03
      SUM OF FORCES IN HORIZONTAL DIRECTION  =        .01  (=  .559E-02)
           SHOULD NOT EXCEED      .100E+03
      SUM OF MOMENTS ABOUT COORDINATE ORIGIN =       -.38  (= -.376E+00)
           SHOULD NOT EXCEED      .100E+03
      SHEAR STRENGTH/SHEAR FORCE CHECK-SUM   =        .00  (=  .923E-03)
           SHOULD NOT EXCEED      .100E+03

      ***** CAUTION ***** FORCES BETWEEN SLICES ARE NEGATIVE AT POINTS
                          ALONG THE UPPER ONE-HALF OF THE SHEAR SURFACE -
                          A TENSION CRACK MAY BE NEEDED.

      ***** CAUTION ***** SOME OF THE FORCES BETWEEN SLICES ACT AT POINTS
                          ABOVE THE SURFACE OF THE SLOPE OR BELOW THE
                          SHEAR SURFACE - EITHER A TENSION CRACK MAY BE
                          NEEDED OR THE SOLUTION MAY NOT BE A VALID SOLUTION


      END-OF-FILE ENCOUNTERED WHILE READING COMMAND
      WORDS - END OF PROBLEM(S) ASSUMED
```

Appendix G.3
Sliding and Overturning Stability Analyses

EXHIBIT 4.7-2

CALCULATION COVER SHEET

Client: FCDMC

Project Name: White Tanks No. 3

Project/Calculation Number: 23443698

Title: Stability Analyses – Sliding and Overturning at Maximum Dam Section (Soil Cement)

Total Number of Pages (including cover sheet): 9

Total Number of Computer Runs: 1

Prepared By: KYoung **Date:** August, 2004

Checked By: Ed Villano **Date:** 8/26/04

Description and Purpose

To determine the relative Factors of Safety for sliding and overturning during the PMF event.

Design Basis/References/Assumptions

Assumptions:

1. Soil cement portion shall act as a free-standing structure and be treated as a concrete gravity dam. Aesthetic fill, Holocene fill, and cutoff walls shall be ignored. [Conservative]
2. Downstream tailwater, aesthetic fill, Holocene fill, and soil loading shall be ignored. [Conservative]

Remarks/Conclusions/Results

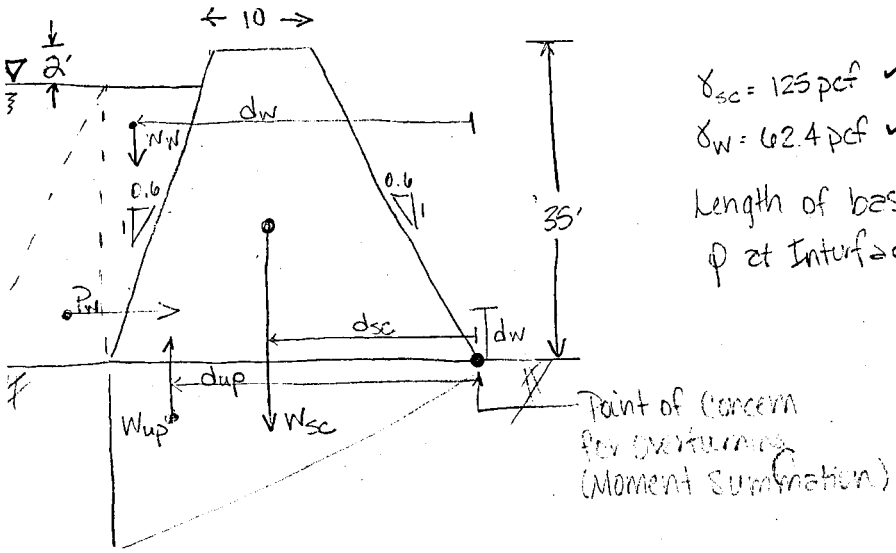
Sliding FS = 2.1
Overturning FS = 2.0 → **FOR PMF EVENT**
Resultant Force Location at 21.7' from downstream toe
With the most conservative case used, dam section meets all safety criteria established by the US Bureau of Reclamation and the US Army Corps of Engineers.

Calculation Approved By: Ed Villano 8/26/04
Project Manager/Date

Revision No.:	Revision Description:	Approved By:
		Project Manager/Date

Maximum Dam Section
Stability Analysis
Soil Cement Section
FCDMC - White Tanks No. 3

(Not to Scale)



$\gamma_{sc} = 125$ pcf ✓

$\gamma_w = 62.4$ pcf ✓

Length of base = $(35'(0.6))2 + 10' = 52'$ ✓

ϕ at Interface = 35° ✓

*All Calcs Per unit Area

Soil Cement:

$W_{sc} = 0.5(35')(0.6(35') + 0.6(35') + 2(10'))(125\text{ pcf}) = \boxed{135{,}625 \downarrow \text{lbs}}$ ✓

$d_{sc} = \frac{1}{2}(\text{base length}) = \boxed{26\text{ ft}}$ ✓ (52')

$M_{sc} = 135{,}625(26) = \boxed{3{,}526{,}250\text{ ft-lbs } \circlearrowright}$ ✓

Wedge of Water:

$W_w = 0.5(33)(0.6(33))(62.4\text{ pcf}) = \boxed{20{,}386 \downarrow \text{lbs}}$ ✓

$d_w = \text{Base length} - \frac{0.6(33)}{3} = \boxed{45.4\text{ ft}}$ ✓

$M_w = 20{,}386(45.4) = \boxed{925{,}524\text{ ft-lbs } \circlearrowright}$ ✓

Uplift:

$W_{up} = 0.5(33)(\text{Base})(62.4) = \boxed{53{,}539 \uparrow \text{lbs}}$ ✓ (52')

$d_{up} = \text{Base} - \frac{1}{3}\text{Base} = 52 - \frac{52}{3} = \boxed{34.7\text{ ft}}$ ✓

$M_{up} = 53{,}539(34.7) = \boxed{1{,}856{,}021\text{ ft-lbs } \circlearrowleft}$ ✓

Hydrostatic:

$P_w = 0.5(33)(33)(62.4) = \boxed{33{,}977 \rightarrow \text{lbs}}$ ✓

$d_w = \frac{1}{3}(33) = \boxed{11\text{ ft}}$ ✓

$M_w = 33{,}977(11) = \boxed{373{,}745\text{ ft-lbs } \circlearrowleft}$ ✓

Maximum Dam Section
Stability Analysis
Soil Cement Section
FCDMC - White Tanks No. 3

NOTE: cohesion conservatively assumed to be zero.

Sliding Stability

$$FS = \frac{\text{Resisting}}{\text{Driving}} \rightarrow \frac{W_{sc}(\tan\phi) + W_w(\tan\phi) - W_{up}(\tan\phi)}{P_w}$$

$$= \frac{(135{,}625 + 20{,}384 - 53{,}539)\tan 35^\circ}{33{,}977} = \boxed{2.1}$$

Overturning Stability

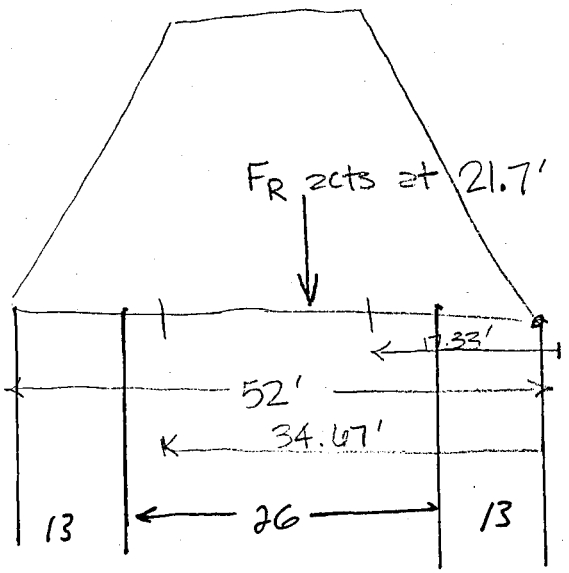
$$FS = \frac{\text{Resisting}}{\text{Driving}} \rightarrow \frac{M_{sc} + M_w}{M_{up} + M_{Hydro}}$$

$$= \frac{3{,}526{,}250 + 925{,}524}{1{,}856{,}021 + 373{,}745} = \boxed{2.0}$$

Resultant force:

$$\text{Location} = \frac{\Sigma M}{\Sigma \text{Forces}_V} \rightarrow \frac{M_{sc} + M_w - M_{up} - M_{Hydro}}{W_{sc} + W_w - W_{up}}$$

$$= \frac{3{,}526{,}250 + 925{,}524 - 1{,}856{,}021 - 373{,}745}{135{,}625 + 20{,}384 - 53{,}539} = \boxed{21.7\text{ ft}}$$



$FS_{slide} = 2.1$

Meets Bureau Criteria (2.0)

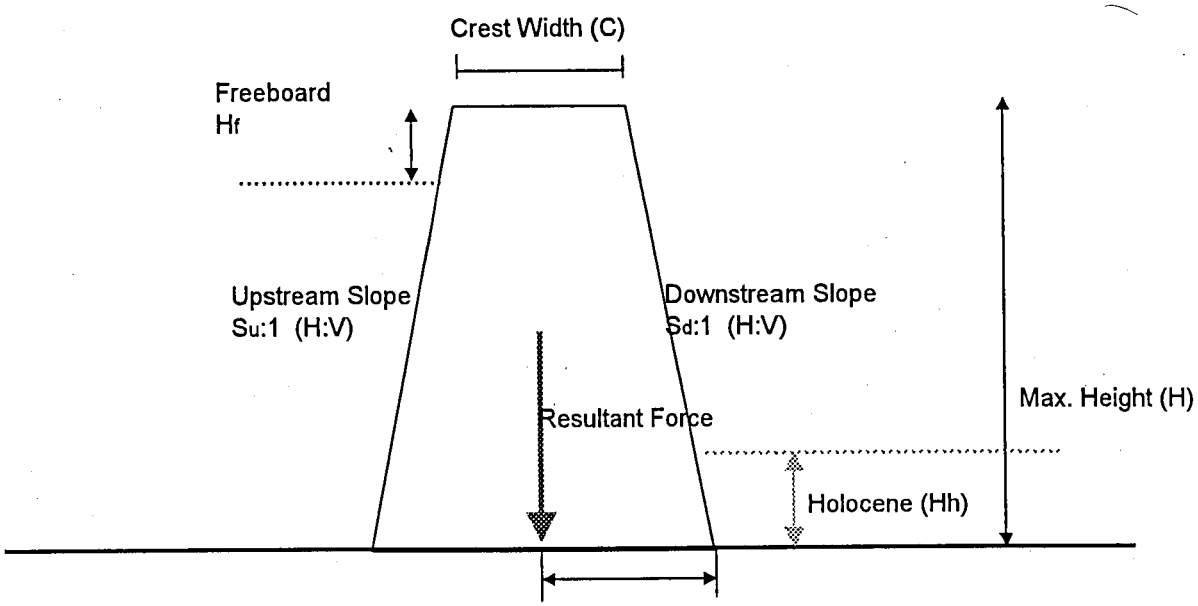
$FS_{overturn} = 2.0$

21.7' meet Corps Criteria (Middle 1/3 of Base) and middle ½ of Base.

Maximum Dam Section
Stability Analysis
Soil Cement Section
FCDMC - White Tanks No. 3

RESULTS	
FOSsliding =	2.1
FOSoverturning =	2.0
Lower Limit of Middle third from downstream toe	17.333
Upper Limit of Middle third from downstream toe	34.667
Location of Resultant Force (feet) from d/s toe	22

Maximum Dam Section
Stability Analysis
Soil Cement Section
FCDMC - White Tanks No. 3



DATA FOR SOIL CEMENT SECTION

Crest Width - C	**10**	feet
Upstream Slope - Su	**0.6**	no units
Downstream Slope - Sd	**0.6**	no units
Maximum Height - H	**35**	feet
Freeboard - Hf	**2**	feet
Unit Weight of Soil Cement	**125**	pcf
Pleistocene - Soil Cement Interface Friction Angle	**35**	degrees

DATA FOR SEDIMENT

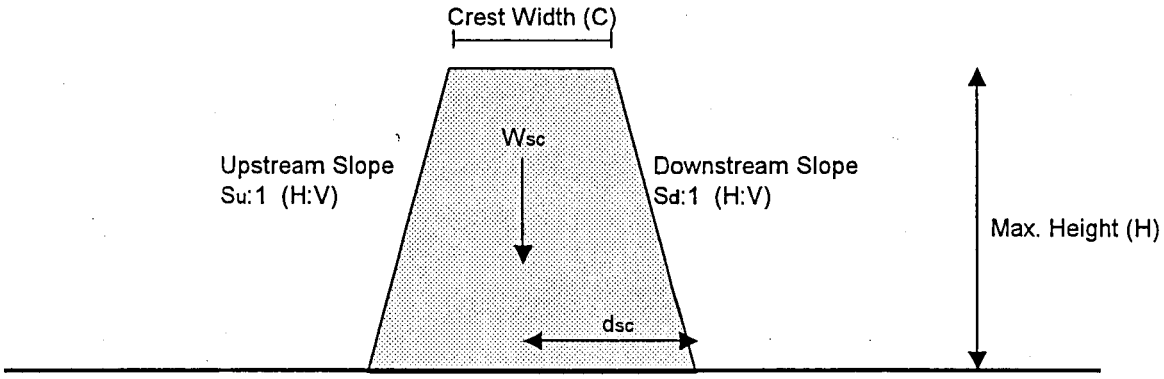
Sat. Unit Weight of Sediment	**110**	pcf
Friction Angle for Sediment	**25**	degrees
Thickness of Sediment	**0**	feet

DATA FOR HOLOCENE

Sat. Unit Weight of Holocene	**110**	pcf	(Assumed same as sediment)
Friction Angle for Holocene	**25**	degrees	(Assumed same as sediment)
Thickness of Holocene	**0**	feet	

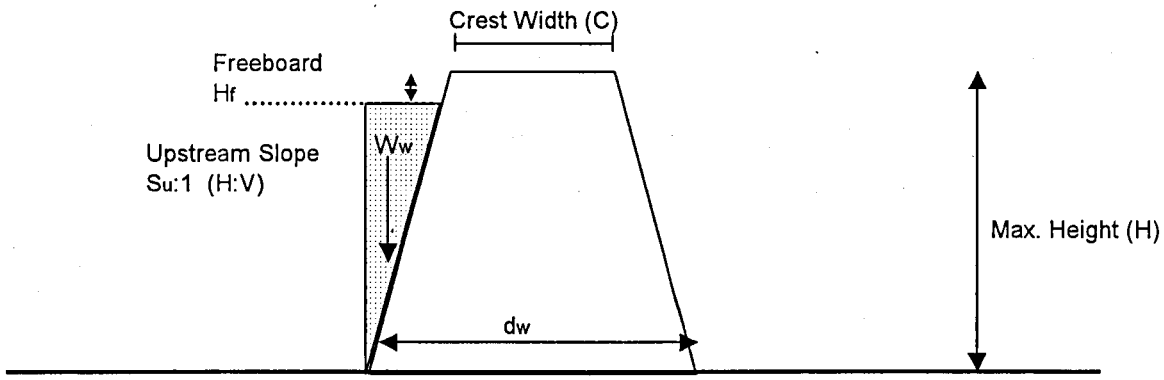
Maximum Dam Section
Stability Analysis
Soil Cement Section
FCDMC - White Tanks No. 3

WEIGHT OF SOIL CEMENT SECTION (Wsc)



Weight of Soil Cement (W_{sc}) = 0.5*[C+(Su*H+Sd*H+C)]*H*Unit Weight of Soil Cement
W_{sc} = 135625 lbs
Distance from downstream toe (d_{sc}) = 0.5*C+Sd*H
d_{sc} = 26 feet
Righting Moment (M_{sc}) = W_{sc} * d_{sc}
Msc = 3526250 ft-lb

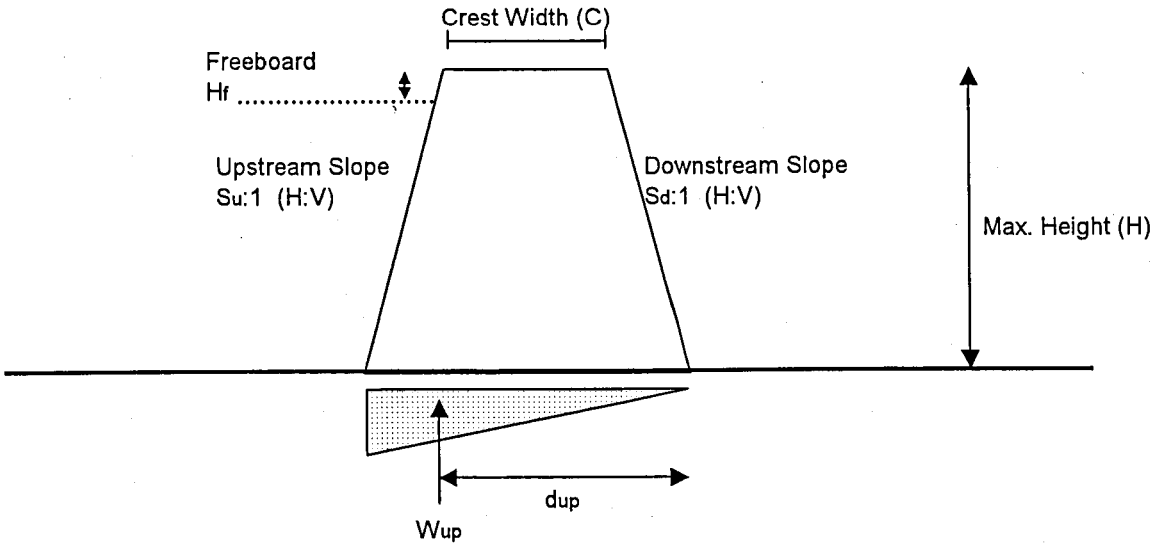
WEIGHT OF WATER (Ww)



Weight of Water (W_w) = 0.5*(H-Hf)*Su*62.4*(H-Hf)
W_w = 20386 lbs
Distance from downstream toe (d_w) = H*Su+H*Sd+C-(H-Hf)(Su)/3
dw = 45.4 feet
Righting Moment (M_w) = Ww*dw
M_{w1} = 925528.03 ft-lb

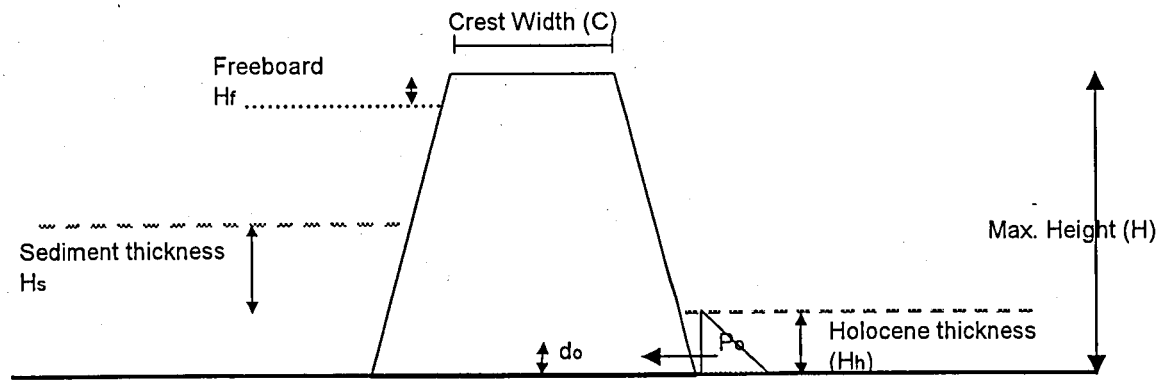
Maximum Dam Section
Stability Analysis
Soil Cement Section
FCDMC - White Tanks No. 3

UPLIFT PRESSURE



Uplift Pressure (W_{up}) = 0.5*(H-Hf)*62.4*(C+Su*H+Sd*H)
W_{up} = 53539 lbs
Distance from downstream toe (dup) = (2/3)*(C+Su*H+Sd*H)
dup = 34.7 feet
Overturning Moment (M_{up}) = W_{up} * dup
Mup = 1856025.6 ft-lb

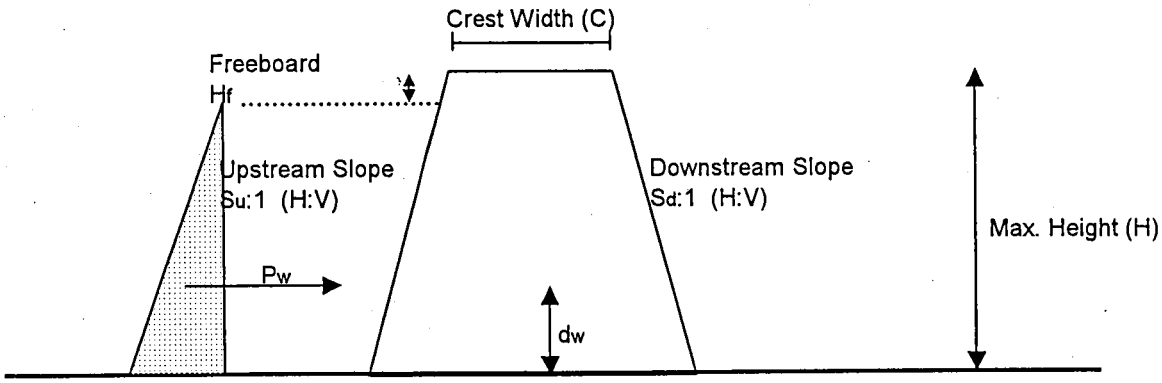
LATERAL EARTH PRESSURES



At Rest Earth Pressure Coefficient k_o= (1-sin(phi))
ko = 0.6
At Rest Earth Pressure (P_o)= 0.5*(k_o*(Soil Unit Weight - 62.4)*(H_s+H_h))*(H_s+H_h)
P_o = 0 lbs
Distance from downstream toe (d_o) = (H_h + H_s)/3
d_o = 0.0 feet
Overtuning Moment (M_o) = P_o * d_o
M_o = 0 ft-lb

Maximum Dam Section
Stability Analysis
Soil Cement Section
FCDMC - White Tanks No. 3

HYDROSTATIC PRESSURE



Hydrostatic Pressure (Pw) = 0.5*62.4*(H-Hf)*(H-Hf)
Pw = 33977 lbs
Distance from downstream toe (dw) = (H-Hf)/3
dw = 11 feet
Overturning Moment (Mw) = Pw * dw
Mw = 373745 ft-lb

Maximum Dam Section
Stability Analysis
Soil Cement Section
FCDMC - White Tanks No. 3

STABILITY AGAINST SLIDING

Driving Force ($F_{driving}$) = Hydrostatic Pressure (P_w)
$F_{driving}$ = 33977 lbs
Shear Resistance ($F_{resistance}$) = Lateral Earth Pressure (P_o) + (Weight of Water (W_w) + Weight of Soil Cement (W_{sc}) - Uplift Pressure (P_{up}))*tan(interface friction angle)
$F_{resistance}$ = 71704 lbs

Factor of Safety against Sliding ($FOS_{sliding}$) = Shear Resistance ($F_{resistance}$)/Driving Force ($F_{driving}$)
$FOS_{sliding}$ = 2.1

STABILITY AGAINST OVERTURNING @ DOWNSTREAM TOE

Driving Moment ($M_{driving}$) = Moment due to hydrostatic pressure (M_w)+Moment due to uplift pressure (M_{up})
$M_{driving}$ = 2229770 ft-lb
Resisting Moment ($M_{resistance}$) = Righting Moment due to Soil Cement (M_{sc}) + Righting Moment due to Wedge of Water (M_{w1})+Moment due to earth pressure (M_o)
$M_{resistance}$ = 4451778 ft-lb

Factor of Safety against Overturning ($FOS_{overturning}$) = Righting Moment ($M_{resistance}$)/Driving Moment ($M_{driving}$)
$FOS_{overturning}$ = 2.0

LOCATION OF RESULTANT FORCE

Net Moment (M_{net}) = Moment due to Soil Cement (M_{sc})+Moment due to Water Wedge (M_{w1})-Moment due to uplift (M_{up})-
Moment due to Hydrostatic Pressure (M_w) + Moment due to Lateral Earth Pressure (P_o)
M_{net} = 2222008 ft-lb
Net Vertical Force ($F_{v,net}$) = Weight of Soil Cement (W_{sc})+Weight of Water Wedge (M_{w1})-Uplift Force (P_{up})
$F_{v,net}$ = 102472 lbs
Location = $M_{net}/F_{v,net}$
Location = 22 feet (distance measured from downstream toe)
Lower Limit of Middle Third = (C+H*Su+H*Sd)/3
Lower Limit of Middle Third = 17.33333
Upper Limit of Middle Third = (C+H*Su+H*Sd)*(2/3)
Upper Limit of Middle Third = 34.66667

Appendix G.4
Settlement Analyses

URS

EXHIBIT 4.7-2

CALCULATION COVER SHEET

Client: Flood Control District of Maricopa County Project Name: White Tanks FRS No. 3

Project/Calculation Number: Settlement Calculation Package

Title: FRS No. 3 Design Report

Total Number of Pages (including cover sheet): _____

Total Number of Computer Runs: _____

Prepared by: Ed Villano Date: 9/2/04

Checked by: R Mullet Date: 9/3/04

Description and Purpose:

Settlement of FRZ embankment and foundation soils.

Design Basis/References/Assumptions

As noted in calculation package

Remarks/Conclusions/Results:

- Settlement of embankment fill is negligible
- Immediate settlement of foundation soils = 6 inches
- Soil-cement settlement is negligible.

Calculation Approved by: Todd Ringsmuth 9-9-04

Project Manager/Date

Revision No.:	Description of Revision:	Approved by:

Project Manager/Date

URS

Job White Tanks FRS No. 3 | Project No. 23443748 | Sheet ___ of ___

Description Settlement Calculations | Computed by E. Villano | Date 9/2/04

Checked by ___ | Date ___

Reference

OBJECTIVE: Calculate embankment and foundation settlement for FRZ.

ASSUMPTIONS:

- No consolidation settlement will take place – embankment and foundation soils are unsaturated, and GWT is ~300 ft. deep
- 100% of elastic (immediate) settlement will take place during construction
- soil-cement settlement is negligible

SOLUTION:

A. Settlement of Embankment fill

- Refer to Attachment A: For embankment dams < 200 ft high, USBR dams embankment settlements generally range from 0.2 to 0.4 percent of the embankment height
- Using 0.4 percent of the max. common fill height of 20 ft (see x-section), post-construction settlement $\approx (0.004)(20\,ft) = 0.08\,ft = 0.96\,in \Rightarrow$ Negligible

B. Immediate Settlement of Foundation soils

- Refer to Attachment B
- Settlement, $\rho_z = \frac{1-\nu^2}{E} p a K_0$

where: ν = poisson's ratio = 0.30 (see Attach. C)

E = Elastic Modulus = 8 KSI (see Attach D)

$p^{(1)}$ = pressure increase at center of embankment base $\approx \gamma H = (125\,lb/ft^3)(25\,ft) = 3{,}125\,psf$

a = embankment base width = 114 ft (see x-sect)

K_0 = influence factor for center of embankment base = 1.9 (see Attach. B)

(1) Note: net γ is (35 ft − 10 ft) ~~which~~ Foundation soils have been excavated and replaced with S-C embankment see section A ∴ 25 ft/ff Net load.

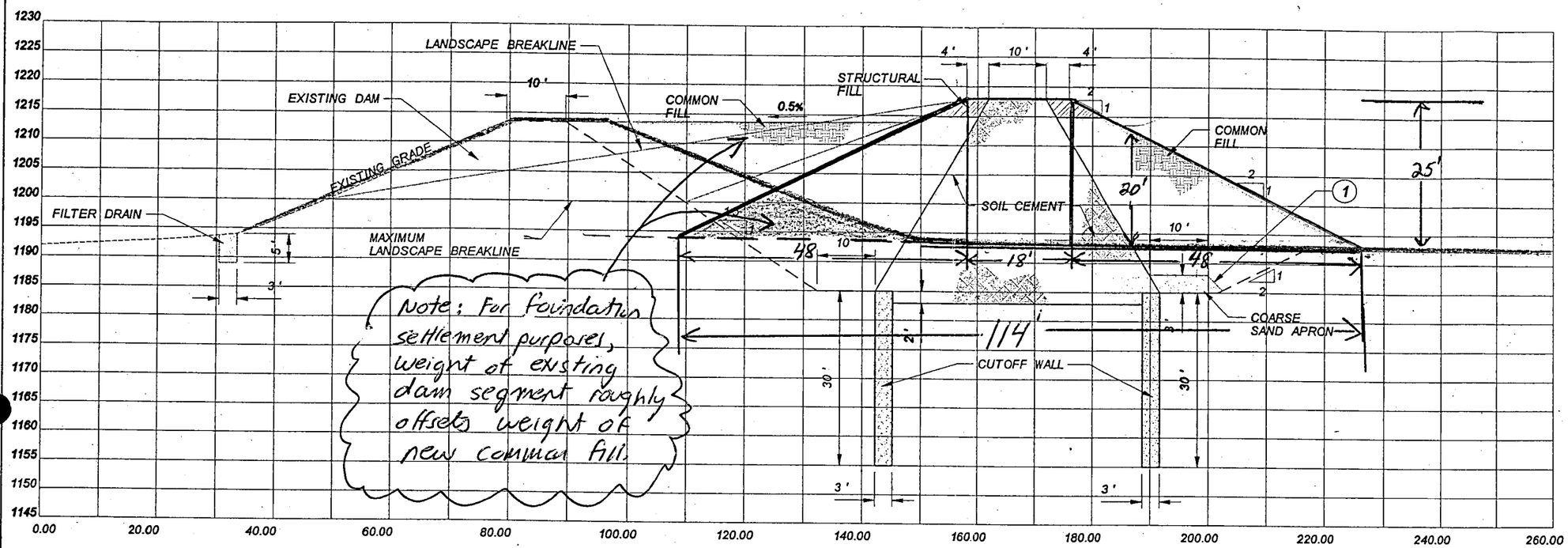
$$\rho_2 = \left(\frac{1-(0.3)^2}{1{,}152{,}000\ \frac{lb}{ft^2}}\right)\left(3{,}125\ \frac{lb}{ft^2}\right)\left(114\ ft\right)\left(1.9\right) = 0.53\ ft$$

$$\underline{\underline{\rho_2 = 6.4\ \text{inches}}}$$

C. Collapse Settlement of Foundation Soils.

- 10 feet of foundation soil below embankment will be removed. This soil has the highest collapse potential. Therefore, no collapse of soil 0-10 feet below embankment is expected.

- Foundation soil 10 feet or deeper may have some collapse potential. However, the wetted front will not reach this deeper soil during the expected 13-day inundation period. Therefore, no collapse of soil 10 feet or deeper is expected.



SECTION A/6
MAXIMUM HEIGHT OF FRZ EMBANKMENT
STA 32+10

5 0 5 10
Scale In Feet

ITEM NO.	ITEM DESCRIPTION	QUANTITY

KEY NOTE:

1. CONSTRUCT SLOPE TO 1:1 OR AS STEEP AS MATERIAL ALLOWS

TWO WORKING DAYS BEFORE YOU DIG, CALL
263-1100
BLUE STAKE

NO.	REVISION	BY	DATE
C	90% DESIGN SUBMITTAL	TER	8-04
B	60% DESIGN SUBMITTAL	TER	6-04
A	30% DESIGN SUBMITTAL	TER	4-04

ADWR APPROVAL

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

WHITE TANKS FRS NO 3
REMEDIATION DESIGN - PHASE 1
PCN 470.04.30, FCD CONTRACT NO. 2004C017

PRELIMINARY - NOT FOR CONSTRUCTION

	BY	DATE
DESIGNED	TER	8-04
DRAWN	KLP	8-04
CHECKED	RM	8-04

URS
7720 NORTH 16TH STREET
SUITE 100
PHOENIX, AZ 85020

DRAWING NO. XS2
FRZ EMBANKMENT SECTIONS AND DETAILS
SHEET OF

P:\FCDMC\23443698 White Tanks\cadd\P1\Rev C\WT3_XS2-P1-REVC.dgn
XREFS: XSEC-2.DGN, PL-FCD.DGN

USBR Design Standards No. 13 Embankment Dams (1991)

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.9

PATTERNS OF DEFORMATIONS

.9 The general pattern of deformations of embankment dams is shown on figures 1 through 3. From these figures, it can be seen that the general pattern for the maximum section of the dam for the upstream surface is down and upstream; while, the downstream surface moves down and downstream. On the other hand the crest of the dam moves down and upstream during first filling and down and downstream as reservoir water begins to penetrate the dam. Surface movements at the abutments contain an additional horizontal component of movement into the valley. Furthermore along any vertical line drawn through the dam at any point the distribution of deformations at the end of construction is roughly parabolic and post construction settlements result in a shift in this distribution at the dam crest. The shift remains almost constant to an approximate elevation where the weight of fill above this elevation is sufficient to drive the material to saturation. Below this elevation the amount of shift gradually reduces to a value of zero at the foundation contact. The post construction shift in settlement is primarily due to the dissipation of excess pore pressures developed within the dam during construction. The post construction shift in horizontal movements is mostly due to embankment material elements adjusting to the newly imposed stress distribution.

The magnitudes of horizontal deformations (into and down valley) are relatively small compared to the vertical settlement. The exact ratio between the magnitudes varies with geometry, dam zoning, and material properties. In practice it is common to analyze the vertical settlement and assume that if the settlements are in an acceptable range then the horizontal displacements will also be acceptable. This assumption is only valid so long as careful attention is given to foundation shaping, strength of materials left in the foundation, and embankment zoning.

ESTIMATING EMBANKMENT DEFORMATIONS

NEED

.10 The degree of analysis performed on an embankment is highly dependent on the design detail under consideration. For camber design it is only necessary to estimate the amount of vertical settlement of the embankment crest. Often this estimate can be performed by applying simple guidelines that have been developed from observations of existing embankments. When cracking of the impervious core is of major concern, it is normal practice to perform some basic settlement calculations in order to decide whether a more complex analytical study needs to be performed or whether to simply incorporate more defensive design features. For the design of appurtenant structures, such as outlet works bridges, which may have some piers or footings founded on the embankment and some founded on rock, the guidelines used to estimate settlements of shallow footings located near the crest of the dam are the same as for determining dam camber design. For structures buried within the embankment basic one-dimensional settlement calculations are generally sufficient.

Attachment A

.11

PROCEDURES

.11 Instrumentation data presented in the literature [1, 2, and 3] and on file at the Bureau of Reclamation for compacted embankments constructed on stiff foundations using modern equipment and designed according to Reclamation standards indicates post construction crest settlements generally range between 0.2 and 0.4 percent and seldom exceed 0.5 percent of the embankment height. Based on this performance history a "rule of thumb" for conservative camber design using 1.0 percent of the embankment height has become common practice [4]. For many low risk dams or dams of less than 200 feet (60 m) in height, this "1.0 percent rule" is the only deformation estimate necessary to arrive at a satisfactory design.

For moderate to high risk dams or dams exceeding 200 feet (60 m), the "1.0 percent rule" alone is often considered insufficient analytical treatment of the deformation problem beyond preliminary camber design. Given the recent advances in mathematical computing power the first impulse of many analysts is to perform a rather complex finite element study; however, at this time these studies are both time consuming and expensive to perform. For these reasons and others associated with material modelling and boundary element selections, it is advisable to first perform a conservative and rather inexpensive one-dimensional (1-D) settlement analysis. The 1-D analyses presented in this chapter will yield no information on tensile stresses which can cause cracking, but the results are useful in determining whether or not excessive differential settlements within the embankment are a potential and provide a convenient cross check to determine the applicability for the "1.0 percent rule" in camber design. If the 1-D analysis indicates excessive differential settlements are a potential problem then a finite element analysis may be justified for evaluating cracking potential. If 1-D settlement calculations significantly exceed 1 percent then the camber design should be based on a 1-D analysis.

The 1-D analyses may be performed using one of three methods. First, a log-linear relationship between vertical stress and axial strain may be developed for the various embankment materials from laboratory tests and for foundation materials using a variety of laboratory or in situ test methods. Second, the stress-strain plots of odometer tests performed on specimens of the various foundation and embankment materials may be used directly, to determine the settlements. And third, for embankment materials a parabolic equation of settlement distribution may be used. All three of these methods are presented in detail in appendix B. The method chosen for any particular analysis depends on whether post construction settlements or differential settlements are of most concern. For example, if camber design is being studied then methods one or two should be performed. Whereas, if differential settlements within the embankment are the major concern then method three is appropriate for the embankment material and either method one or two is appropriate for the foundation materials. The advantage of method three over methods one and two is that settlements at various elevations within the embankment may be more rapidly estimated. The disadvantage of method three is that post construction settlements cannot be determined with this method.

Attachment A

" Elastic Solutions for Soil and Rock Mechanics "
Poulos and Davis (1974, pp. 1991) 1 of 3

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TABLE 3.25

VALUES OF N_2'

(Giroud, 1970)

z/ℓ \ b/ℓ	0	0.1	0.2	1/3	0.4	0.5	2/3	1	1.5	2	2.5	3	5	10	∞
0	0.000	0.039	0.135	0.173	0.187	0.202	0.219	0.235	0.244	0.247	0.248	0.249	0.250	0.250	0.250
0.2	0.000	0.022	0.042	0.062	0.070	0.079	0.091	0.103	0.110	0.112	0.113	0.114	0.115	0.115	0.115
0.4	0.000	0.009	0.018	0.028	0.033	0.038	0.045	0.054	0.059	0.061	0.062	0.063	0.063	0.063	0.063
0.5	0.000	0.006	0.013	0.020	0.023	0.027	0.033	0.040	0.044	0.046	0.047	0.047	0.048	0.048	0.048
0.6	0.000	0.005	0.009	0.014	0.017	0.020	0.024	0.029	0.033	0.035	0.036	0.036	0.037	0.037	0.037
0.8	0.000	0.002	0.005	0.008	0.009	0.011	0.013	0.017	0.020	0.021	0.022	0.022	0.023	0.023	0.023
1	0.000	0.001	0.003	0.004	0.005	0.006	0.008	0.010	0.012	0.013	0.014	0.014	0.015	0.015	0.015
1.2	0.000	0.001	0.002	0.003	0.003	0.004	0.005	0.006	0.008	0.009	0.009	0.009	0.010	0.010	0.010
1.4	0.000	0.000	0.001	0.002	0.002	0.002	0.003	0.004	0.005	0.006	0.006	0.006	0.007	0.007	0.007
1.5	0.000	0.000	0.001	0.001	0.002	0.002	0.002	0.003	0.004	0.005	0.005	0.005	0.006	0.006	0.006
1.6	0.000	0.000	0.001	0.001	0.001	0.001	0.002	0.003	0.003	0.004	0.004	0.004	0.005	0.005	0.005
1.8	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.002	0.002	0.003	0.003	0.003	0.004	0.004	0.004
2	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.003	0.003	0.003
2.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002
3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001
4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-0.000
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-0.000
50	0.000	0.000	0.000	0.000	0.000	0.000	-0.000	0.000	0.000	-0.000	0.000	0.000	0.000	0.000	-0.000

K_C =

For a point at a distance x from the edge $C_1'NC_1$ on the axis NON (Fig.3.33), Giroud (1969) gives the following solution for the horizontal displacement ρ_x:

$$\rho_x = \frac{(1+\nu)(1-2\nu)}{2\pi E}\,\ell\Big[\frac{b}{2\ell}\Big(1-2\frac{x}{\ell}\Big)\ln\frac{4(\ell-x)^2+b^2}{4x^2+b^2} - 2\frac{x}{\ell}\Big(1-\frac{x}{\ell}\Big)\Big(\arctan\frac{b}{2x}+\arctan\frac{b}{2(\ell-x)}\Big) + \frac{b^2}{2\ell^2}\Big(\arctan\frac{2x}{b}+\arctan\frac{2(\ell-x)}{b}\Big) - \frac{b}{\ell}\Big] \quad \ldots (3.25)$$

As in Section 3.4.1, the solution for the corner of a rectangle of proportions $2\ell/b$ may be obtained by taking half the value of ρ_x for $x=\ell$.

The results in this section can be combined with those in Section 3.4.1 to give the results for a trapezoidal distribution of loading. For the particular case when the loading varies linearly across the rectangle to zero at one edge, expressions and graphs for the vertical stress are given by Gray (1943, 1948), expressions for the horizontal and shear stresses by Ambraseys (1960) and graphs and expressions for vertical displacement by Stamatopoulos (1959).

3.4.3 VERTICAL EMBANKMENT LOADING (Fig.3.34)

Vertical surface displacements ρ_z have been evaluated for several points by Giroud (1968b).

Influence factors K_O, K_C etc for the seven points marked in Fig.3.34 are shown in Figs. 3.35 to 3.41.

In all cases

$$\boxed{\rho_z = \frac{1-\nu^2}{E}\,p\,a\,K} \quad \ldots (3.26)$$

Expressions for the influence factors K_O *(centre)* and K_C *(corner)* are as follows:

$$K_O = \frac{1}{2\pi}\Big[\frac{1}{\beta}\ln\big(\alpha+\sqrt{1+\alpha^2}\big) + \frac{\alpha^2}{\beta}\ln\frac{1+\sqrt{1+\alpha^2}}{\alpha} - \frac{(1-2\beta)^2}{\beta}\ln\frac{\alpha-2\beta+\sqrt{(1-2\beta)^2+(\alpha-2\beta)^2}}{1-2\beta} - \frac{(\alpha-2\beta)^2}{\beta}\ln\frac{1-2\beta+\sqrt{(1-2\beta)^2+(\alpha-2\beta)^2}}{\alpha-2\beta}$$

ATTACHMENT D

"Elastic solutions...." (cont.) 2 of 3 10 of 9

$$- \frac{(\alpha-1)^2}{\sqrt{2}\,\beta} \ln \frac{\sqrt{2(1+\alpha^2)}+\alpha+1}{\sqrt{2(1-2\beta)^2+2(\alpha-2\beta)^2}-4\beta+\alpha+1} \Bigg] \quad \ldots (3.27a)$$

$$K_C = \frac{1}{2\pi}\Bigg[\frac{1}{\beta}\ln\left(\alpha+\sqrt{1+\alpha^2}\right) + \frac{\alpha^2}{\beta}\ln\frac{1+\sqrt{1+\alpha^2}}{\alpha}$$

$$+\beta \ln \frac{\beta-\alpha+\sqrt{\beta^2+(\alpha-\beta)^2}}{1-\beta+\sqrt{\beta^2+(1-\beta)^2}}$$

$$- \frac{1}{\sqrt{2}\beta} \ln \frac{\sqrt{2\beta^2+2(1-\beta)^2}+2\beta-1}{\sqrt{2}-1}$$

$$- \frac{\alpha^2}{\sqrt{2}\beta} \ln \frac{\sqrt{2\beta^2+2(\alpha-\beta)^2}+2\beta-\alpha}{\alpha(\sqrt{2}-1)}$$

$$- \frac{(\alpha-1)^2}{\sqrt{2}\beta} \ln \frac{\sqrt{2(1-\beta)^2+2(\alpha-\beta)^2}+2\beta-\alpha-1}{\sqrt{2(1+\alpha^2)}-(1+\alpha)}$$

$$- \frac{(1-\beta)^2}{\beta} \ln \frac{\sqrt{\beta^2+(1-\beta)^2}-\beta}{\sqrt{(1-\beta)^2+(\alpha-\beta)^2}+\beta-\alpha}$$

$$- \frac{(\alpha-\beta)^2}{\beta} \ln \frac{\sqrt{\beta^2+(\alpha-\beta)^2}-\beta}{\sqrt{(1-\beta)^2+(\alpha-\beta)^2}+\beta-1}$$

$$+ 2\beta \ln(1+\sqrt{2})\Bigg] \quad \ldots (3.27b)$$

For the point A,

$$K_A = \frac{1}{2\pi}\Bigg[\frac{1}{2\beta}\ln\left(2\alpha+\sqrt{1+4\alpha^2}\right) + \frac{2\alpha^2}{\beta}\ln\frac{1+\sqrt{1+4\alpha^2}}{2\alpha}$$

$$- \frac{1}{2\sqrt{2}\beta} \ln \frac{\sqrt{2(1-2\beta)^2+8\beta^2}+4\beta-1}{\sqrt{2}-1}$$

$$- \frac{(2\alpha-1)^2}{2\sqrt{2}\beta} \ln \frac{\sqrt{2(1-2\beta)^2+8(\alpha-\beta)^2}+4\beta-2\alpha-1}{\sqrt{2(1+4\alpha^2)}-(1+2\alpha)}$$

$$- \frac{(1-2\beta)^2}{2\beta} \ln \frac{\sqrt{4\beta^2+(1-2\beta)^2}-2\beta}{\sqrt{(1-2\beta)^2+4(\alpha-\beta)^2}+2(\beta-\alpha)}$$

$$- \frac{2(\alpha-\beta)^2}{\beta} \ln \frac{2(\alpha-\beta)}{\sqrt{(1-2\beta)^2+4(\alpha-\beta)^2}+2\beta-1}$$

$$- 2\beta \ln \frac{2\beta}{\sqrt{(1-2\beta)^2+4\beta^2}+2\beta-1}\Bigg] \quad \ldots (3.27c)$$

In the above expressions,

$\alpha = b/a$

$\beta = c/a.$

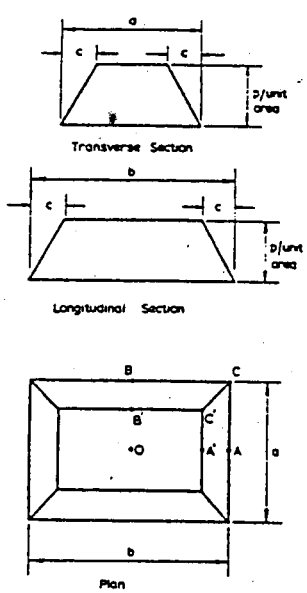


FIG.3.34

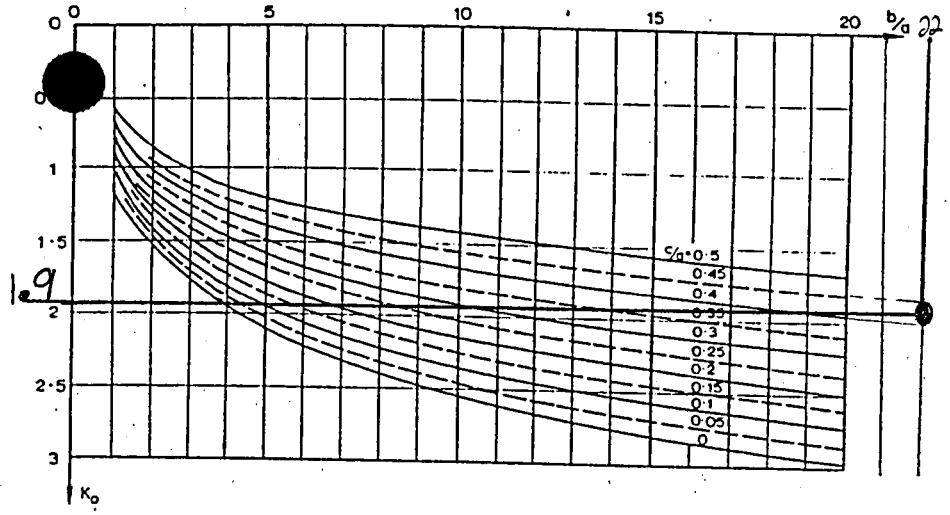


FIG. 3.35 Displacement Influence Factors K_o. (Giroud, 1968).

Refer to X-section:
a = 114 ft
b = 2,500 ft
c = 48 ft
b/a = 22
c/a = 0.42
Read K_o = 1.9

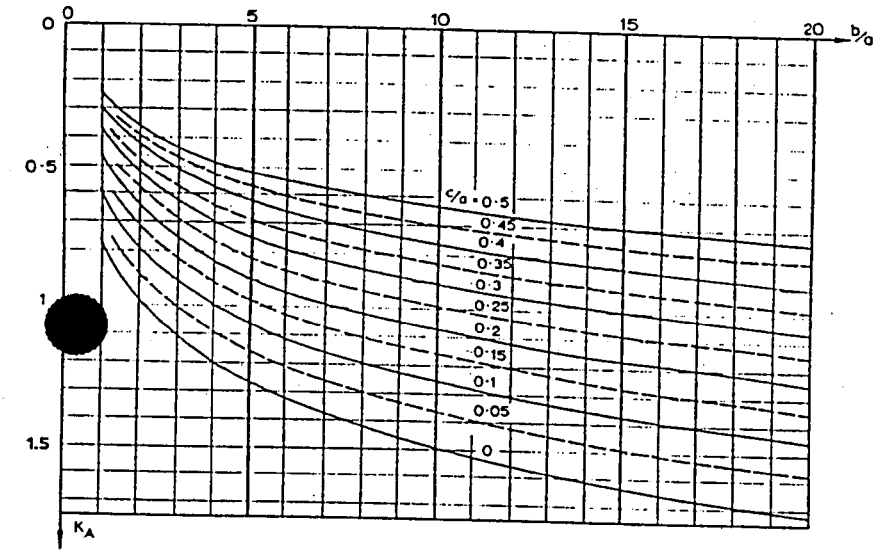


FIG. 3.36 Displacement Influence Factors K_A. (Giroud, 1968).

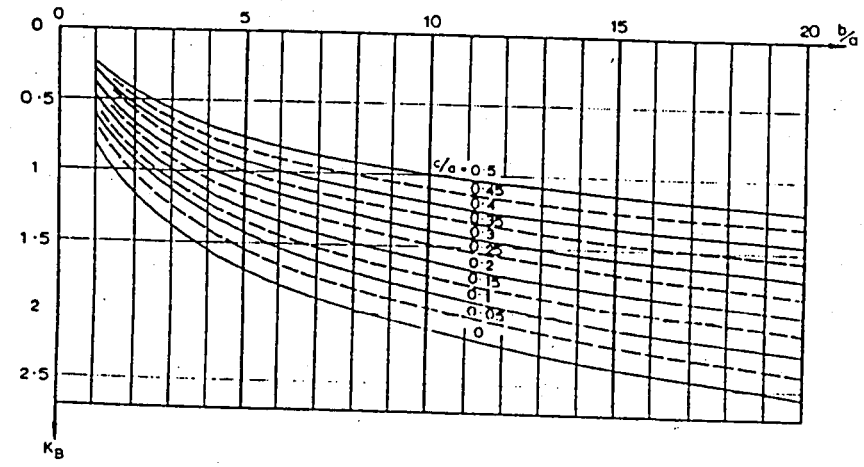


FIG. 3.37 Displacement Influence Factors K_B. (Giroud, 1968).

"Foundation Analysis and Design," Bowles, 1982

8 of 9

Table 2-6 Typical range of values for the static stress-strain modulus E_s for selected soils
Field values depend on stress history, water content, density, etc.

Soil	E_s ksf	E_s Mpa
Clay		
Very soft	50–250	2–15
Soft	100–500	5–25
Medium	300–1000	15–50
Hard	1000–2000	50–100
Sandy	500–5000	25–250
Glacial till		
Loose	200–3200	10–153
Dense	3000–15 000	144–720
Very dense	10 000–30 000	478–1440
Loess	300–1200	14–57
Sand		
Silty	150–450	7–21
Loose	200–500	10–24
Dense	1000–1700	48–81
Sand and gravel		
Loose	1000–3000	48–144
Dense	2000–4000	96–192
Shale	3000–300 000	144–14 400
Silt	40–400	2–20

Table 2-7 Typical range of values for Poisson's ratio μ

Type of soil	μ
Clay, saturated	0.4–0.5
Clay, unsaturated	0.1–0.3
Sandy clay	0.2–0.3
Silt	0.3–0.35
Sand (dense)	0.2–0.4
Coarse (void ratio = 0.4–0.7)	0.15
Fine-grained (void ratio = 0.4–0.7)	0.25
Rock	0.1–0.4 (depends somewhat on type of rock)
Loess	0.1–0.3
Ice	0.36
Concrete	0.15

For White Tanks FRS No. 3 foundation soils, use $\nu = 0.30$

Attachment C

9 of 9

"Calcareous Soils of the Southwestern United States"
Beckwith and Hansen, 1982

Classification and Engineering Properties

Various classification systems developed for carbonaceous soils and rocks, summarized by Burnett and Epps [20], do not lend themselves to use for the calcareous soils of the Southwestern United States because they were developed for sedimentary deposits rather than secondary deposition of carbonates. A simple system, shown in Table 2, categorizing the calcareous soils (and rocks) of the Southwest into five classes of increasing strength has been developed by the first author's organization. It has been found that this system, in conjunction with Unified Soil Classification and a careful description of structure and discontinuities as discussed in the following, is satisfactory for engineering purposes.

Class 1 Soils

Class 1 calcareous soils in the Southwestern United States were formed in the arid environment of approximately the past 12 000 years and possess highly moisture-sensitive properties which distinguish them from older calcareous deposits. These distinctive properties place them in the category of "collapsing" soils as described by a number of authors [21-23]. Class 1 soils are predominantly low-gradient alluvial fan deposits and alluvial

TABLE 2—*Engineering classification of calcareous soils of the Southwestern United States.*

Class	Typical Properties	Description
1	dry properties; θ = 30 deg, C = 200 lb/ft^2, E_s = 1 to 5 ksi, N = <15	Holocene "collapsing" soils. Gile et al [10,11]. Stage I of development. Weakly cemented with filaments and particle grain coatings
2	E_s = 5 to 10 ksi, θ = 33 to 37 deg, C = 1.0 to 3.0 ksf, N = 5 to 25	moderately cemented. Moderately weakened by moisture increases. Gile et al, Stage II, often nodular structure with continuously cemented matrix. Pleistocene
3	E_s = 8 to 15 ksi, θ = 35 to 42 deg, C = 3.0 to 6.0 ksf, N = 25 to 60	strongly cemented, only slightly affected by moisture increases. Gile et al, Stage III, often has laminated or stratified structure. Pleistocene
4	E_s = 15 to 50 ksi, q_u = 10 to 20 ksf, N = 60 to 200+	very strongly cemented with essentially the properties of soft rock. Not significantly affected by moisture increases, often has stratified structure. Gile et al, Stage IV. Pleistocene or older
5	E_s = 50 to 500 ksi, q_u = 1.5 to 5.0 ksi, N = 200+	moderately hard rock. Rock mechanics approaches necessary for investigation and analysis. Gile et al, Stage IV. Pleistocene or older

Metric conversion factors:
1 lb/ft^2 = 47.9 Pa.
1 ksi = 6.90 MPa.
1 ksf = 47.9 kPa.

Elastic settlement equation assumes infinite depth. Therefore, E_s should reflect average shallow and deeper soil properties, weighted more toward shallow soil properties due to greater stress at shallower depths. Assume average soil properties are reflected by mid-range of Class 2 soil, with E = 8 ksi.

Attachment D

Appendix G.5
Seismic Analysis

TRR

amec

Seismic Exposure Evaluation
Dam Safety Program
Flood Control District of Maricopa County

Submitted to:

Flood Control District of Maricopa County
Phoenix, Arizona

REGISTERED GEOLOGIST
CERTIFICATE NO.
12999
RALPH E.
WEEKS
Date Signed 5-3-02
ARIZONA U.S.A.

Submitted by:

AMEC Earth & Environmental, Inc.
Phoenix, Arizona

May 2, 2002

AMEC Job No. 0-117-001122, Task 2

amec

TABLE 4

Recommended Peak Horizontal Acceleration
Seismic Exposure Evaluation
Dam Safety Program

Map ID	Facility Name	Source	Recommended PGA (%g)
1	Adobe Dam	Background	10
2	Apache Junction FRS	Sugarloaf Fault	**15**
3	Buckeye FRS No. 1	Background	10
4	Buckeye FRS No. 2	Background	10
5	Buckeye FRS No. 3	Background	10
6	Casandro Wash Dam	Background	10
7	Cave Buttes Dam	Horseshoe Fault	**10**
8	Dreamy Draw Dam	Background	10
9	Guadalupe FRS	Background	10
10	Harquahala FRS	Background	10
11	McMicken Dam	Background	10
12	New River Dam	Background	10
13	Powerline FRS	Sugarloaf Fault	**11**
14	Rittenhouse FRS	Background	10
15	Saddleback FRS	Background	10
16	Signal Butte FRS	Sugarloaf Fault	**14**
17	Spook Hill FRS	Sugarloaf Fault	**13**
18	Sunnycove FRS	Background	10
19	Sunset FRS	Background	10
20	Vineyard FRS	Sugarloaf Fault	**10**
21	White Tanks FRS No. 3	Background	10
22	White Tanks FRS No. 4	Background	10

Note:

Deterministically-derived values presented in red.

Appendix G.6
Soil Cement Beam Analysis

URS **EXHIBIT 4.7-2**

CALCULATION COVER SHEET

Client: Flood Control District of Maricopa County, AZ Project Name: White Tanks

Project/Calculation Number: 23443748.00312

Title: Simply Supported Beam

Total Number of Pages (including cover sheet): 13

Total Number of Computer Runs: 0

Prepared by: G. Batchelder Adams Date: 8-24-04

Checked by: Steve Dominic Stephen J. Dominic (see attached check-independent spreadsheet) Date: 8/25/04

Description and Purpose:

Design Basis/References/Assumptions

See Calculation

Remarks/Conclusions/Results:

Calculation Approved by: Todd Ringsmuth 9-9-04
Project Manager/Date

Revision No.:	Description of Revision:	Approved by:

Project Manager/Date

Checked R.D.D.

An analysis was performed to determine the maximum theoretical length that the soil-cement section could span if a depression or hole developed in the foundation, potentially caused by erosion. Conservatively, the soil-cement section was modeled as a simply supported, uniformly loaded beam. Laboratory test results were used to estimate the modulus of elasticity, unit weight, and compressive strength as 1,000 ksi, 125 pcf, and 1,000 psi, respectively.

The only load considered in the analysis was the dead weight of the soil-cement section. Span lengths varying from 20 feet to 80 feet were evaluated and the shear stresses, moments, and displacements were determined at 2-foot intervals along each beam. The maximum tensile stress in each span was also determined based on the standard beam flexure relationship. The maximum tensile stress was compared with a typical range of tensile stress for soil-cement materials. This range was based on two publications (Portland Cement Association (PCA, 1988) and the U.S. Bureau of Reclamation (USBR, 1990)), which compared the tensile strength of concrete with the compressive strength of concrete. Based on these publications, the limits for the allowable tensile strength of concrete that was used in the analyses ranged from 10 percent of its compressive strength (100 psi) to 5 times the square root of the its compressive strength (158 psi). Based on these allowable tensile stress limits, the soil-cement section is estimated to span about 61 to 76 feet. The actual length that this material could span is most likely somewhat less due to anticipated shrinkage cracking since the above analysis only considers intact soil-cement material. The analyses are included as Appendix G6, which includes plots of shear, moment, and displacement for the various span lengths. Appendix G6 also includes a plot of span length versus tensile strength in which the calculated tensile strength is shown along with the estimated allowable range of tensile strength.

References:

Design Standard No. 13, Embankment Dams, Chapter 13, Soil-Cement Slope Protection, U.S. Bureau of Reclamation, 1990.

Portland Cement Association (PCA, 1988), Design and Control of Concrete Mixtures, Thirteenth Edition.

Independent Calc Check S.J.D

Calculation Check - SJD

w	11.3
E	1000
I	1950000000
c	257.42

L	Vmax	Mmax	Dmax	SigmaMax
240	1356	81360	0.00025	10.74035
480	2712	325440	0.004005	42.96142
720	4068	732240	0.020277	96.66319
960	5424	1301760	0.064087	171.8457

URS

Job WHITE TANKS | Project No. 2344 3748 | Sheet ___ of ___

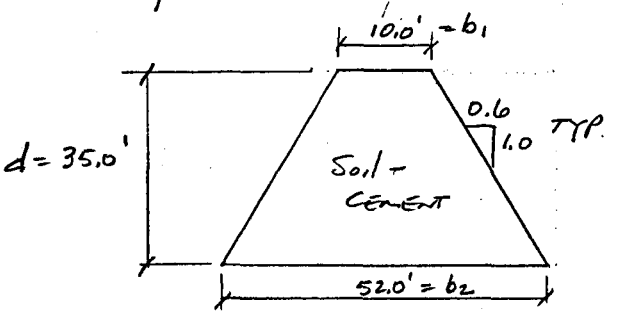
Description Simply Supported Beam | Computed by GBA | Date 8-23-04

Checked by SJD | Date 8/25/04

Reference

PURPOSE: DETERMINE THE MAXIMUM THEORETICAL LENGTH THE SOIL-CEMENT SECTION CAN SPAN OVER AN ERODED HOLE/CHANNEL AND NOT EXCEED THE ALLOWABLE BENDING STRESS OF THE SOIL-CEMENT SECTION.

GIVEN: ① GEOMETRY OF SOIL-CEMENT X-SECTION



② FROM RECENT LABORATORY TESTING OF SOIL-CEMENT PROPOSED MATERIALS:

- MODULUS OF ELASTICITY = E = 1000 ksi
- UNIT WEIGHT = γ_T = 125 pcf
- UNCONFINED COMPRESSIVE STRENGTH = f'_{cs} = 1000 psi

* = UPDATE ONCE FINAL LABORATORY TEST RESULTS ARE SUBMITTED.

REFERENCES:

① MANUAL OF STEEL CONSTRUCTION, AMERICAN INSTITUTE OF STEEL CONSTRUCTION, EIGHTH EDITION, 1988

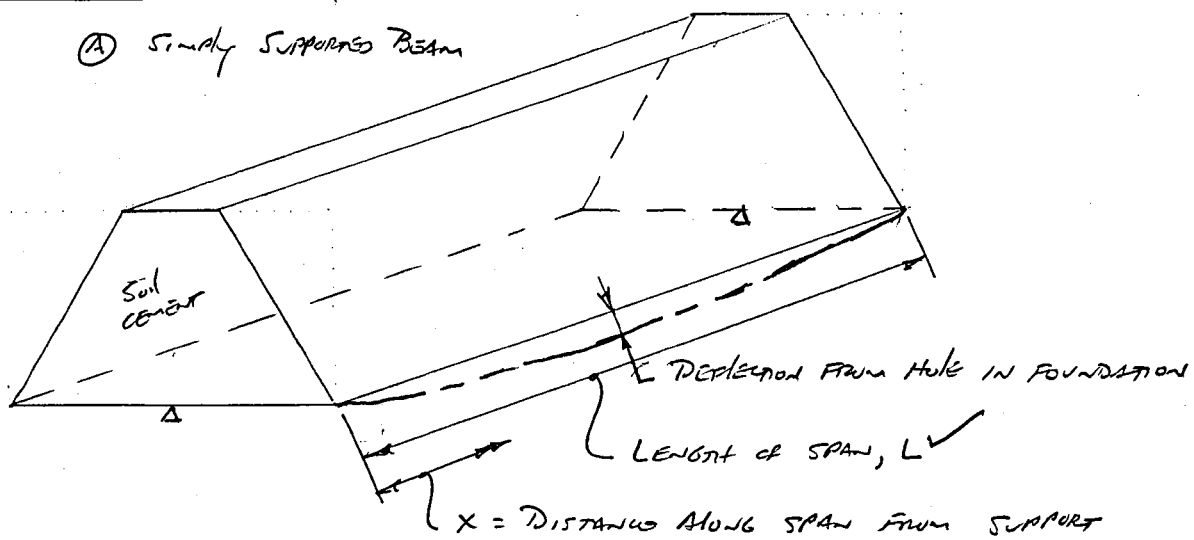
② STANDARD HANDBOOK FOR CIVIL ENGINEERS, THIRD EDITION, McGRAW-HILL, 1983.

③ DESIGN AND CONTROL OF CONCRETE MIXTURES, PORTLAND CEMENT ASSOCIATION, THIRTEENTH EDITION, 1988

④ DESIGN STANDARD No. 13, EMBANKMENT DAMS, CHAPTER 17, SOIL-CEMENT SLOPE PROTECTION, U.S. BUREAU OF RECLAMATION, 1990.

Solution:

(A) Simply Supported Beam



(B) Determine Uniform Load for x-section

⇒ Assume 1' long section

⇒ Uniform Load, $w = A\gamma_T$

A = Area of x-section

$= \frac{1}{2}(52' + 10')\,35' = 1085$ sf

γ_T = Total Unit Weight = 125 pcf

$w = (1085\text{ sf} \times 125\,\#/\text{cf} \times 1'\text{ Long})\,\frac{1^K}{1000^\#} = 135.6$ K-ft

$= \underline{11.3\text{ K-in}}$

SOLUTION (CONT'D):

(C) DETERMINE MAX SHEAR (@ SUPPORTS), MAX MOMENT (@ MID SPAN) & MAX. DEFLECTION (@ MID SPAN)

FROM REF (1), PAGE 6 (ATTACHED)

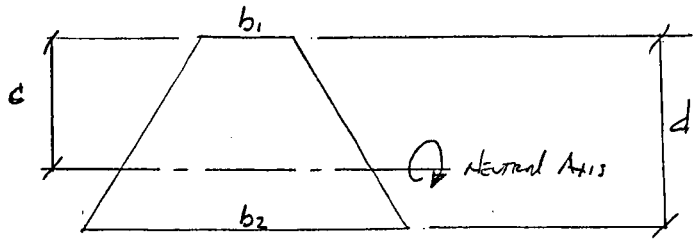
$\Rightarrow$ MAX SHEAR $= w\left(\frac{L}{2} - x\right) \Rightarrow x = 0 \therefore$ MAX SHEAR $= \frac{wL}{2}$

$\Rightarrow$ MAX MOMENT $= \frac{wL^2}{8}$

$\Rightarrow$ MAX DISPLACEMENT $= \frac{5wL^4}{384EI}$

SEE ATTACHED SPREADSHEET (PAGE 7) FOR DETERMINATION OF ABOVE 3 PARAMETERS FOR VARIOUS LENGTHS OF SPAN. SEE PART D BELOW FOR I.

(D) FIND I ABOUT NEUTRAL AXIS; FIRST NEED TO DETERMINE C, DISTANCE FROM NEUTRAL AXIS TO OUTER MOST FIBER



FROM REF (2), PAGE 6-23 (ATTACHED):

$$C = \frac{(b_1 + 2b_2)d}{3(b_1 + b_2)} = \frac{(10' + (2 \times 52))\,35'}{3(10' + 52)} = 21.45'$$

$$= \underline{257.42''}$$

CHECK

$$C = \frac{\Sigma(A \times M_{ARM})}{\Sigma A}; \quad \text{TAKE MOMENTS ABOUT CREST}$$

$$= \frac{\overset{\square}{\left[(10 \times 35)\frac{35}{2}\right]} + \overset{\Delta\,\Delta}{\left[\frac{1}{2}(21 \times 35)\frac{35 \times 2}{3}\right]2}}{(10 \times 35) + \frac{1}{2}(21 \times 35)2} = \frac{6125 + 17{,}150}{350 + 735}$$

$$= 21.45' = 257.42'' \text{ ✓ OK}$$

SOLUTION (CONT'D):

(D) CONT'D

FIND I_{x-x} = MOMENT OF INTERIA

FROM REF (2): $I_{x-x} = \dfrac{(b_1^2 + 4b_1b_2 + b_2^2)}{36(b_1+b_2)} d^3$

$$= \frac{[10^2 + 4(10\times 52) + 52^2]}{36(10+52)}(35)^3 = 93,817.9 \text{ FT}^4$$

$$= 93,817.9 \text{ FT}^4 \times \frac{12^4 \text{ IN}^4}{1 \text{ FT}^4} = \underline{1.945\times 10^9 \text{ IN}^4}$$

(E) DETERMINE THE SHEAR, MOMENT & DISPLACEMENT ALONG THE BEAM FROM THE SUPPORT. VARY L FROM 20' TO 80'

⇒ FROM REF (1), PAGE 6

- SHEAR

$$V_x = w\left(\frac{L}{2} - x\right)$$

SEE PAGE 9 FOR PLOT OF X VS. SHEAR FORCES

- MOMENT

$$M_x = \frac{wx}{2}(L-x)$$

SEE PAGE 10 FOR PLOT OF X VS. MOMENTS

- DISPLACEMENT

$$\Delta = \frac{wx}{24EI}(L^3 - 2Lx^2 + x^3)$$

SEE PAGE 11 FOR PLOT OF X VS. DISPLACEMENT

SET UP SPREADSHEET TO SOLVE FOR ABOVE, INCREASING X IN 2' INCREMENTS (SEE PAGE 8 FOR SPREADSHEET)

Solution: (cont'd)

(F) Calculate M_x tensile stress for each span length

⇒ Max tensile stress = $\sigma_T = \frac{M_{MAX}\, c}{I}$

⇒ See spreadsheet for σ_T (attached, page 7)

(G) Find range of allowable tensile strength, $f_{t_{Allow}}$

⇒ From Ref (3) (page 5) for concrete:

- $f_{t_{Allow}}$ = 8% to 12% of f'_c; f'_{cs} = 1000 psi ✓

  Using $f'_c = f'_{cs}$ ⇒ $f_{t_{Allow}} = 0.08(1000\,psi) = 80\,psi$ ✓

  $f_{t_{Allow}} = 0.12(1000\,psi) = 120\,psi$ ✓

- $f_{t_{Allow}} = 5 \text{ to } 7.5 \times \sqrt{f'_c} = 158 \text{ to } 237\,psi$ ✓

⇒ From Ref (4) (Enclosure 5) $f_{t_{Allow}} = 0.05 \text{ to } 0.10\, f'_c = 50 \text{ to } 100\,psi$ ✓

⇒ Use $f'_{t_{Allow}} = 100\,psi$ to $158\,psi$ ✓

⇒ Plot span length vs. tensile stress w/ calculated tensile stress & allowable tensile stress limits (see page 12.) ✓

From this plot, intact soil-cement section is estimated to span about 61' to 76'.

✓

From Ref ①

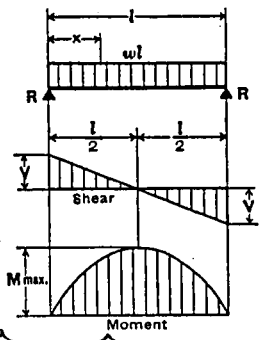
chk. S.J.A. 6/12

BEAM DIAGRAMS AND FORMULAS

For various static loading conditions

For meaning of symbols, see page 2-111.

1. SIMPLE BEAM—UNIFORMLY DISTRIBUTED LOAD



Total Equiv. Uniform Load . . . $= wl$

$R = V$ . . . . . $= \frac{wl}{2}$

V_x . . . . . $= w\left(\frac{l}{2} - x\right)$

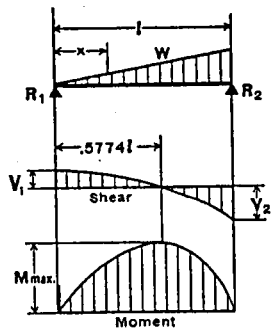
M max. (at center) . . . . $= \frac{wl^2}{8}$

M_x . . . . . $= \frac{wx}{2}(l - x)$

Δmax. (at center) . . . . $= \frac{5\,wl^4}{384\,EI}$

Δ_x . . . . . $= \frac{wx}{24EI}(l^3 - 2lx^2 + x^3)$

2. SIMPLE BEAM—LOAD INCREASING UNIFORMLY TO ONE END



Total Equiv. Uniform Load . . . $= \frac{16W}{9\sqrt{3}} = 1.0264W$

$R_1 = V_1$ . . . . . $= \frac{W}{3}$

$R_2 = V_2$ max. . . . . $= \frac{2W}{3}$

V_x . . . . . $= \frac{W}{3} - \frac{Wx^2}{l^2}$

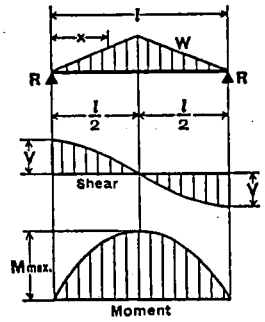
M max. $\left(\text{at } x = \frac{l}{\sqrt{3}} = .5774l\right)$ . . $= \frac{2Wl}{9\sqrt{3}} = .1283\,Wl$

M_x . . . . . $= \frac{Wx}{3l^2}(l^2 - x^2)$

Δmax. $\left(\text{at } x = l\sqrt{1 - \sqrt{\frac{8}{15}}} = .5193l\right) = .01304\frac{Wl^3}{EI}$

Δ_x . . . . . $= \frac{Wx}{180EI\,l^2}(3x^4 - 10l^2x^2 + 7l^4)$

3. SIMPLE BEAM—LOAD INCREASING UNIFORMLY TO CENTER



Total Equiv. Uniform Load . . . $= \frac{4W}{3}$

$R = V$ . . . . . $= \frac{W}{2}$

V_x $\left(\text{when } x < \frac{l}{2}\right)$ . . . . $= \frac{W}{2l^2}(l^2 - 4x^2)$

M max. (at center) . . . . $= \frac{Wl}{6}$

M_x $\left(\text{when } x < \frac{l}{2}\right)$ . . . . $= Wx\left(\frac{1}{2} - \frac{2x^2}{3l^2}\right)$

Δmax. (at center) . . . . $= \frac{Wl^3}{60EI}$

Δ_x $\left(\text{when } x < \frac{l}{2}\right)$ . . . . $= \frac{Wx}{480\,EI\,l^2}(5l^2 - 4x^2)^2$

chk. 7/12

WHITE TANKS
SIMPLY SUPPORTED BEAM - TENSILE STRESS EVALUATION

Constants		
* Uniform Load = w	11.3	k/in
* Modulus = E	1000	ksi
* Moment of Intertia = I	1.95E+09	in4
* Distance from neutral axis to outer most fiber = c	257.42	in
X-Section Dimensions		
* Width at crest = b1	10.0	Ft
* Width at base = b2	52.0	Ft
* Height = d	35.0	Ft

Simply supported beam reactions, max shear, max moment, max displacement					
Span length, Ft	Span length, in	Max. Shear at supports, kips	Max Moment, kip-in	Max displacement, in	Max tensile stress, psi
20	240	1356	81,360	0.00025	10.8
40	480	2712	325,440	0.00401	43.1
60	720	4068	732,240	0.02033	96.9
80	960	5424	1,301,760	0.06424	172.3

Allowable Tensile Stress	
Span Length, ft	Tensile Stress, psi
0	158
80	158
0	100
80	100

CAK. 4-4-N.
8/12

WHITE TANKS
SIMPLY SUPPORTED BEAM - TENSILE STRESS EVALUATION

Determine shear, moment, and displacement at varying locations along the beam

Constants		
* Uniform Load = w	11.3	k/in
* Modulus = E	1000	ksi
* Moment of Intertia = I	1.95E+09	in4

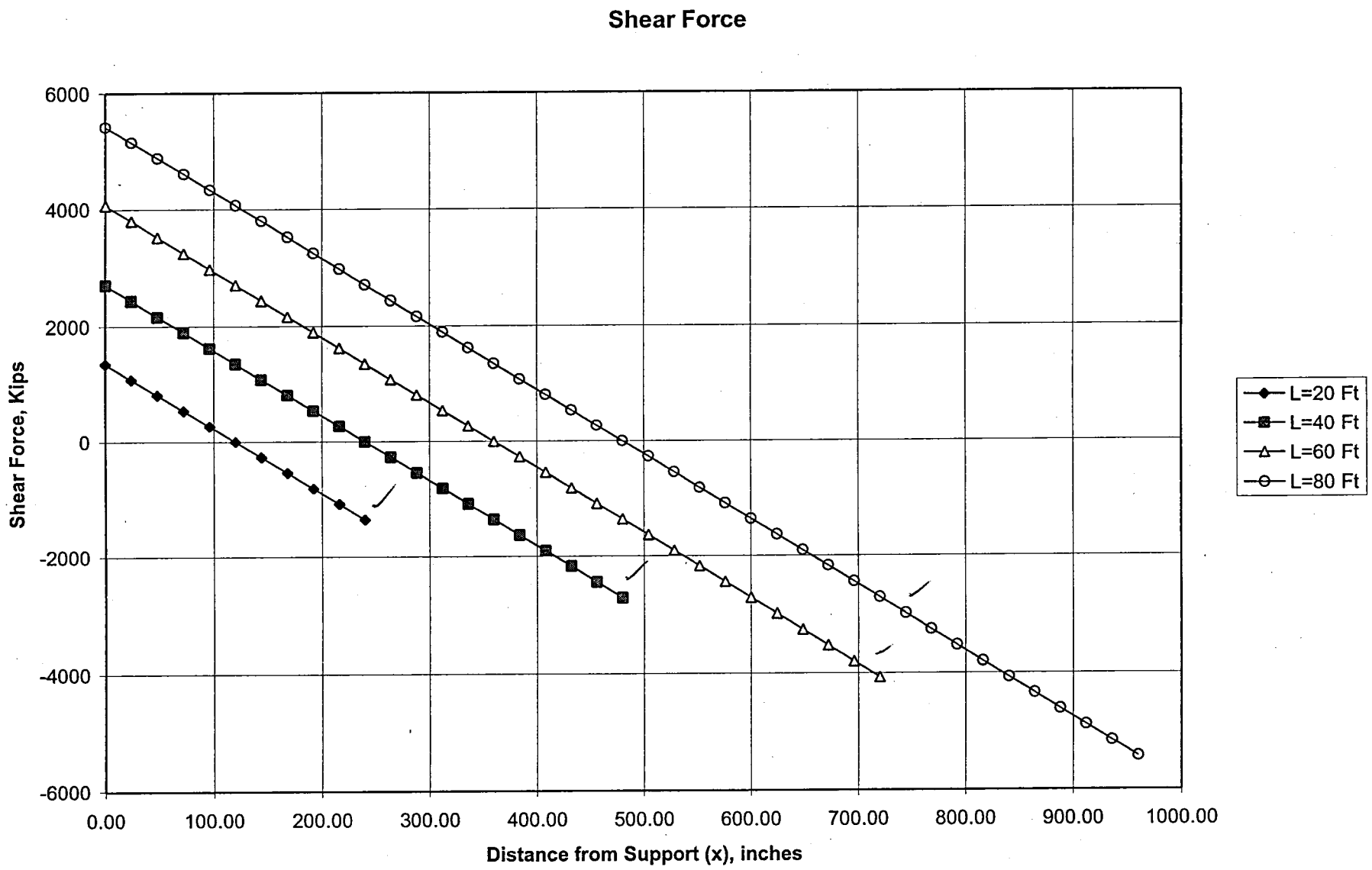
Span Length	240	inches		
x, feet	x, inches	Shear, kips	Moment, in-kips	Displacement, inch
0	0.00	1356	0	0
2	24.00	1085	29,290	-0.00008
4	48.00	814	52,070	-0.00015
6	72.00	542	68,342	-0.00020
8	96.00	271	78,106	-0.00024
10	120.00	0	81,360	-0.00025
12	144.00	-271	78,106	-0.00024
14	168.00	-542	68,342	-0.00020
16	192.00	-814	52,070	-0.00015
18	216.00	-1085	29,290	-0.00008
20	240.00	-1356	0	0

Span Length	480	inches		
x, feet	x, inches	Shear, kips	Moment, in-kips	Displacement, inch
0	0.00	2712	0	0
2	24.00	2441	61,834	-0.00064
4	48.00	2170	117,158	-0.00126
6	72.00	1898	165,974	-0.00185
8	96.00	1627	208,282	-0.00238
10	120.00	1356	244,080	-0.00286
12	144.00	1085	273,370	-0.00326
14	168.00	814	296,150	-0.00359
16	192.00	542	312,422	-0.00382
18	216.00	271	322,186	-0.00397
20	240.00	0	325,440	-0.00401
22	264.00	-271	322,186	-0.00397
24	288.00	-542	312,422	-0.00382
26	312.00	-814	296,150	-0.00359
28	336.00	-1085	273,370	-0.00326
30	360.00	-1356	244,080	-0.00286
32	384.00	-1627	208,282	-0.00238
34	408.00	-1898	165,974	-0.00185
36	432.00	-2170	117,158	-0.00126
38	456.00	-2441	61,834	-0.00064
40	480.00	-2712	0	0.00000

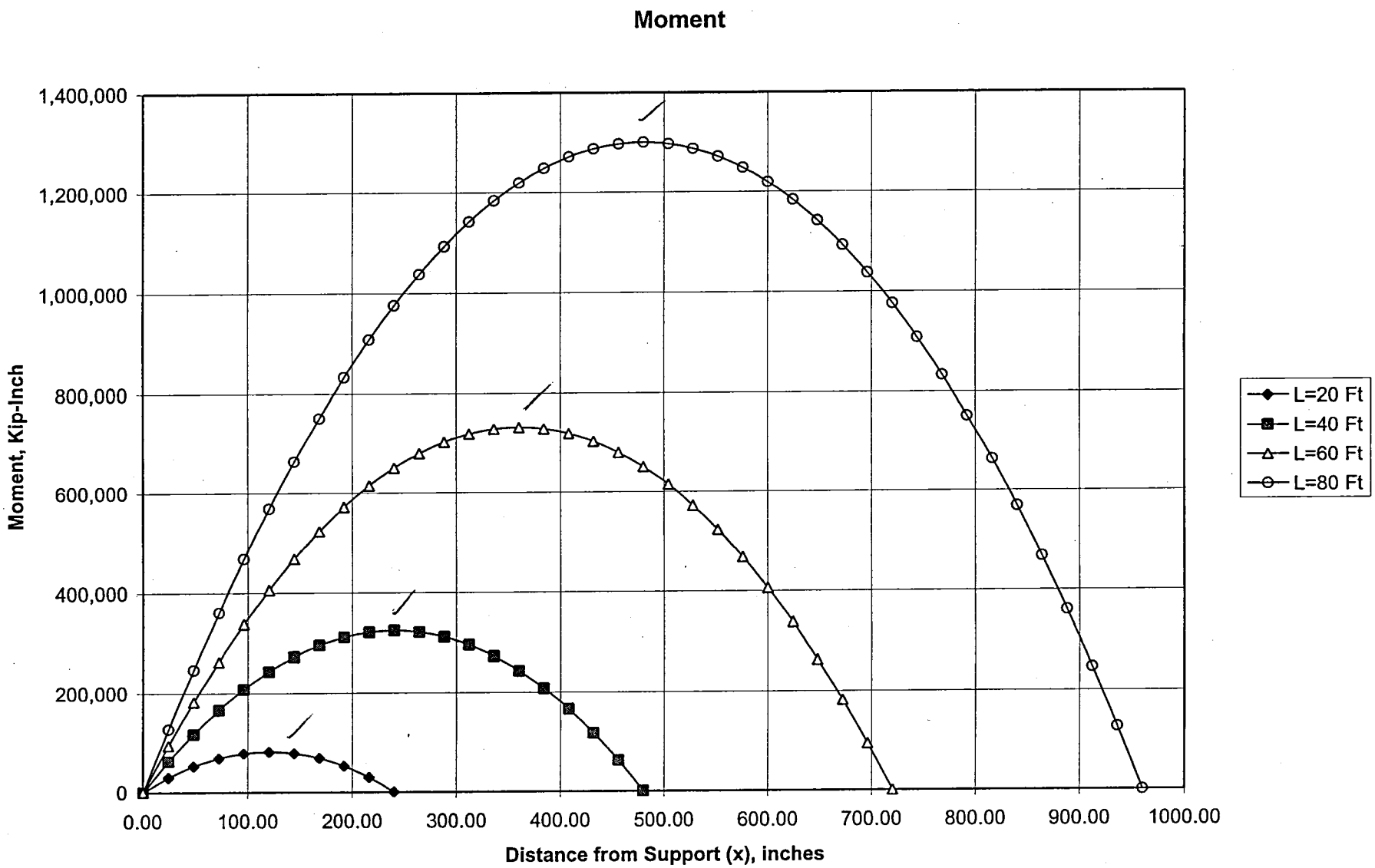
Span Length	720	inches		
x, feet	x, inches	Shear, kips	Moment, in-kips	Displacement, inch
0	0.00	4068	0	0
2	24.00	3797	94,378	-0.00216
4	48.00	3526	182,246	-0.00430
6	72.00	3254	263,606	-0.00638
8	96.00	2983	338,458	-0.00838
10	120.00	2712	406,800	-0.01029
12	144.00	2441	468,634	-0.01207
14	168.00	2170	523,958	-0.01372
16	192.00	1898	572,774	-0.01521
18	216.00	1627	615,082	-0.01653
20	240.00	1356	650,880	-0.01767
22	264.00	1085	680,170	-0.01861
24	288.00	814	702,950	-0.01936
26	312.00	542	719,222	-0.01989
28	336.00	271	728,986	-0.02022
30	360.00	0	732,240	-0.02033
32	384.00	-271	728,986	-0.02022
34	408.00	-542	719,222	-0.01989
36	432.00	-814	702,950	-0.01936
38	456.00	-1085	680,170	-0.01861
40	480.00	-1356	650,880	-0.01767
42	504.00	-1627	615,082	-0.01653
44	528.00	-1898	572,774	-0.01521
46	552.00	-2170	523,958	-0.01372
48	576.00	-2441	468,634	-0.01207
50	600.00	-2712	406,800	-0.01029
52	624.00	-2983	338,458	-0.00838
54	648.00	-3254	263,606	-0.00638
56	672.00	-3526	182,246	-0.00430
58	696.00	-3797	94,378	-0.00216
60	720.00	-4068	0	0

Span Length	960	inches		
x, feet	x, inches	Shear, kips	Moment, in-kips	Displacement, inch
0	0.00	5424	0	0
2	24.00	5153	126,922	-0.00513
4	48.00	4882	247,334	-0.01023
6	72.00	4610	361,238	-0.01525
8	96.00	4339	468,634	-0.02017
10	120.00	4068	569,520	-0.02494
12	144.00	3797	663,898	-0.02955
14	168.00	3526	751,766	-0.03396
16	192.00	3254	833,126	-0.03815
18	216.00	2983	907,978	-0.04210
20	240.00	2712	976,320	-0.04577
22	264.00	2441	1,038,154	-0.04915
24	288.00	2170	1,093,478	-0.05223
26	312.00	1898	1,142,294	-0.05499
28	336.00	1627	1,184,602	-0.05740
30	360.00	1356	1,220,400	-0.05947
32	384.00	1085	1,249,690	-0.06118
34	408.00	814	1,272,470	-0.06251
36	432.00	542	1,288,742	-0.06347
38	456.00	271	1,298,506	-0.06405
40	480.00	0	1,301,760	-0.06424
42	504.00	-271	1,298,506	-0.06405
44	528.00	-542	1,288,742	-0.06347
46	552.00	-814	1,272,470	-0.06251
48	576.00	-1085	1,249,690	-0.06118
50	600.00	-1356	1,220,400	-0.05947
52	624.00	-1627	1,184,602	-0.05740
54	648.00	-1898	1,142,294	-0.05499
56	672.00	-2170	1,093,478	-0.05223
58	696.00	-2441	1,038,154	-0.04915
60	720.00	-2712	976,320	-0.04577
62	744.00	-2983	907,978	-0.04210
64	768.00	-3254	833,126	-0.03815
66	792.00	-3526	751,766	-0.03396
68	816.00	-3797	663,898	-0.02955
70	840.00	-4068	569,520	-0.02494
72	864.00	-4339	468,634	-0.02017
74	888.00	-4610	361,238	-0.01525
76	912.00	-4882	247,334	-0.01023
78	936.00	-5153	126,922	-0.00513
80	960.00	-5424	0	0

CHK. 8.8.2-

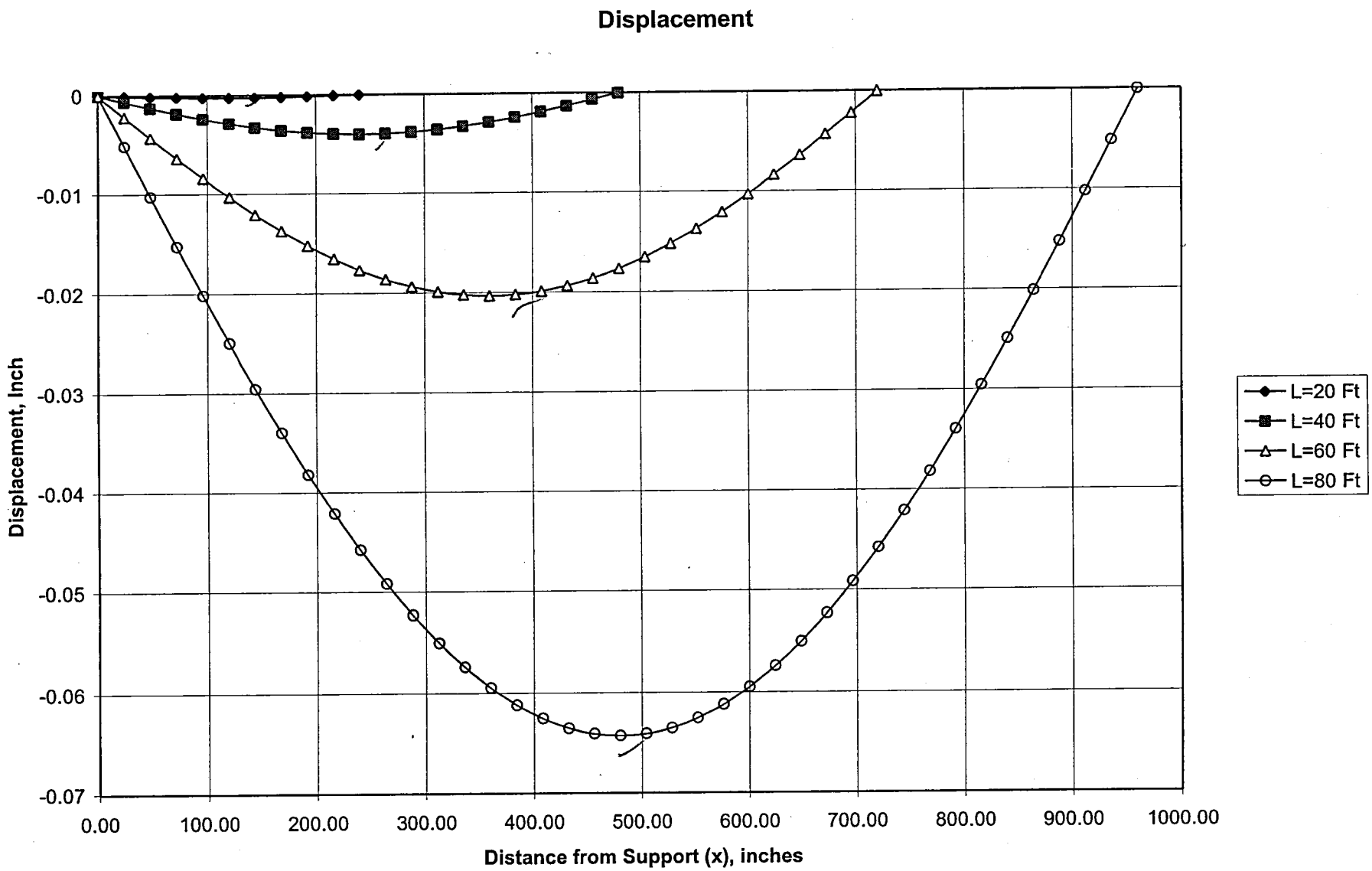

Shear Force
6000
4000
2000
0
-2000
-4000
-6000
Shear Force, Kips
0.00
100.00
200.00
300.00
400.00
500.00
600.00
700.00
800.00
900.00
1000.00
Distance from Support (x), inches
L=20 Ft
L=40 Ft
L=60 Ft
L=80 Ft

2/2


Moment
1,400,000
1,200,000
1,000,000
800,000
600,000
400,000
200,000
0
Moment, Kip-Inch
0.00
100.00
200.00
300.00
400.00
500.00
600.00
700.00
800.00
900.00
1000.00
Distance from Support (x), inches
L=20 Ft
L=40 Ft
L=60 Ft
L=80 Ft

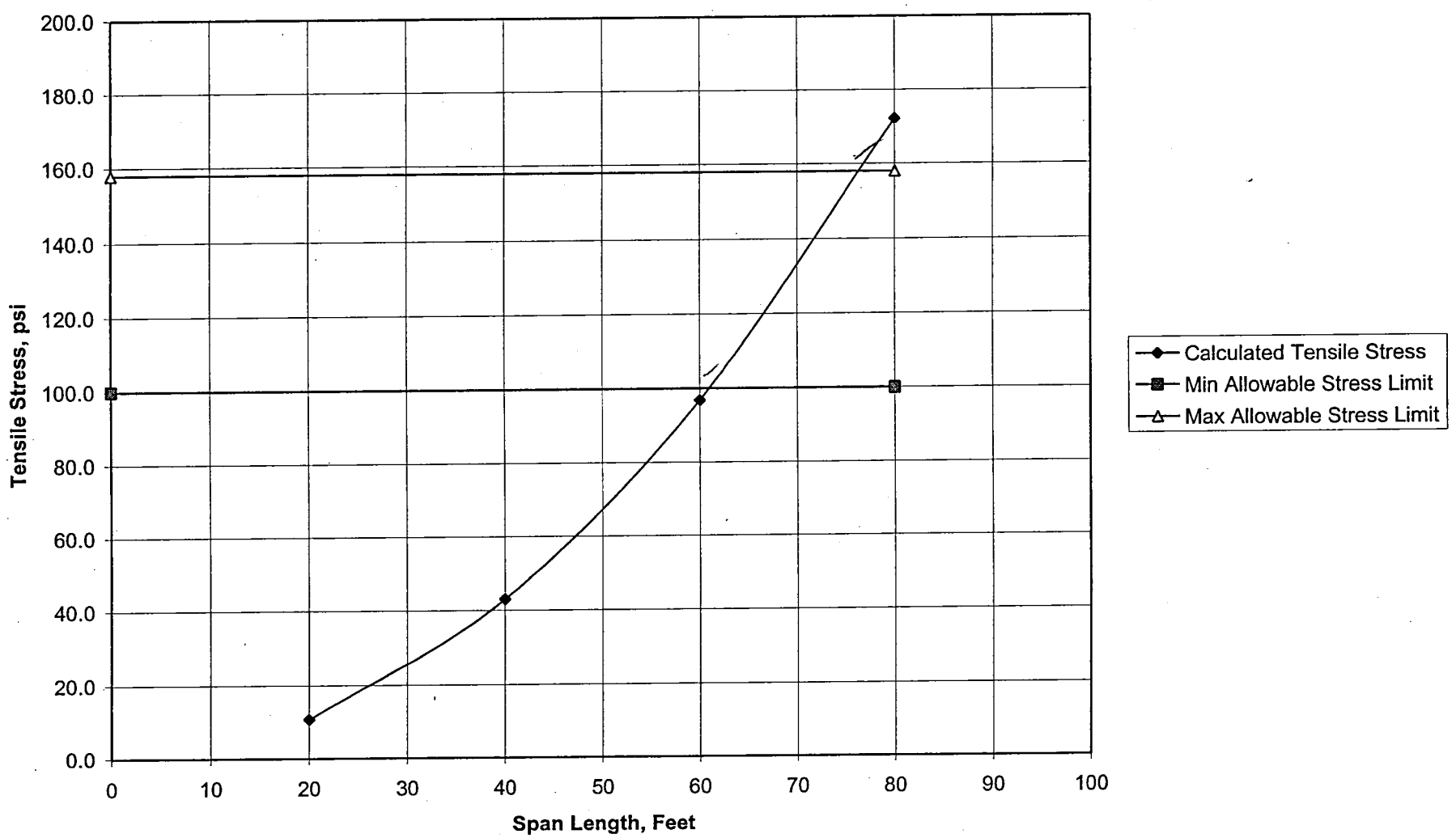
10/12

CHK. 4/4/1.


Displacement
0
-0.01
-0.02
-0.03
-0.04
-0.05
-0.06
-0.07
Displacement, Inch
0.00
100.00
200.00
300.00
400.00
500.00
600.00
700.00
800.00
900.00
1000.00
Distance from Support (x), inches
L=20 Ft
L=40 Ft
L=60 Ft
L=80 Ft

11/12

TENSILE STRESS FOR SIMPLY SUPPORTED BEAM



12/12

APPENDIX H

CALCULATION PACKAGES – STRUCTURAL DESIGN

CALCULATION PACKAGE NO. H-1

EXHIBIT 4.7-2

CALCULATION COVER SHEET

Client: Flood Control District of Maricopa County

Project Name: White Tanks

Project/Calculation Number: 23443748.00312

Title: Principal Spillway Structure Seismic Stability Analysis

Total Number of Pages (including cover sheet): 17

Total Number of Computer Runs: NA

Prepared By: Harold Blair **Date:** 7/28/2004

Checked By: Steve Dominic SD. **Date:** 8/20/2004

Description and Purpose

Verify structural stability of proposed principal spillway configuration under seismic loading conditions.

Design Basis/References/Assumptions

Structure component breakdown for determination of seismic loads generally consistent with approach presented in NRCS TR 68. Added mass for water load developed based on Westergaard methodology. Peak acceleration based on attached report from AMEC Earth & Environmental dated May 2, 2004.

Remarks/Conclusions/Results

Resultant peak base tension of 205 psi is judged to be minor and not significant enough to incorporate foundation anchors into design. Factor of safety for buoyancy computed as 2.5 under normal pool conditions.

Calculation Approved By: Todd Ringsmuth 9/9/04

Project Manager/Date

Revision No.:	Revision Description:	Approved By:
		Project Manager/Date

URS

Job: White tanks | Project No. 23443748.00312 | Page 1 of ___ | Sheet ___ of ___

Description: Principal Spillway riser | Computed by: HKB | Date: 7-28-04

Checked by: TEM SJD | Date: 8/31/04 8/29/04 | Reference

~~Silt load?~~ → would not control stability Added to strength design - Not req'd by TRG8 for stability

Is P.S. Crest established based on silt load? ^

Problem: Analyze principal spillway riser for earthquake loading. Compute stability of riser -

Assumptions:

Consistent with TRG8 criteria? ok

Case 1 —

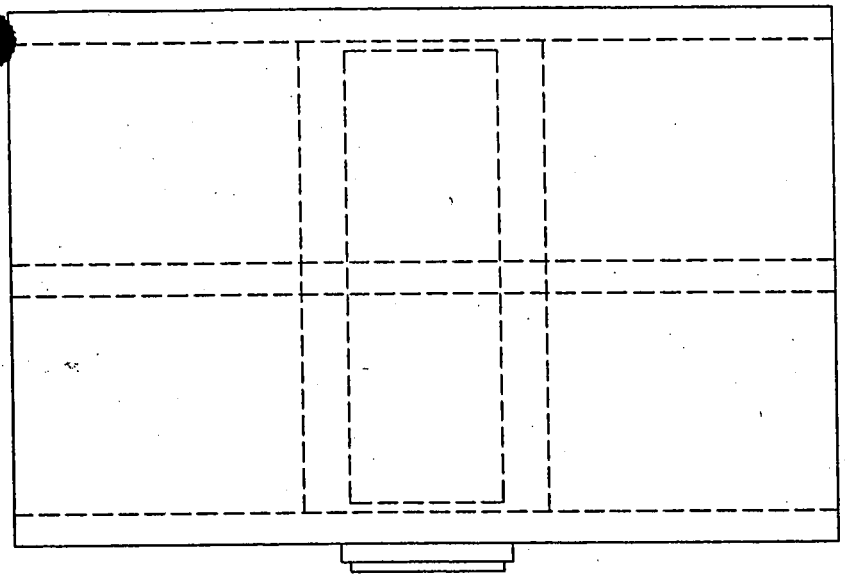
- Assume Westergaard water loading outside of structure — up to the spillway crest (Elev 1200)
- ✓ Apply horizontal acceleration of 0.06 at the centroid of the selected masses as shown on the attached sketch

per attached Amec document

- ✓ $P_{ew} = \frac{2}{3} C_e \alpha_h H^2$ width from USBR "Design for concrete Retaining walls" (sheet attached)

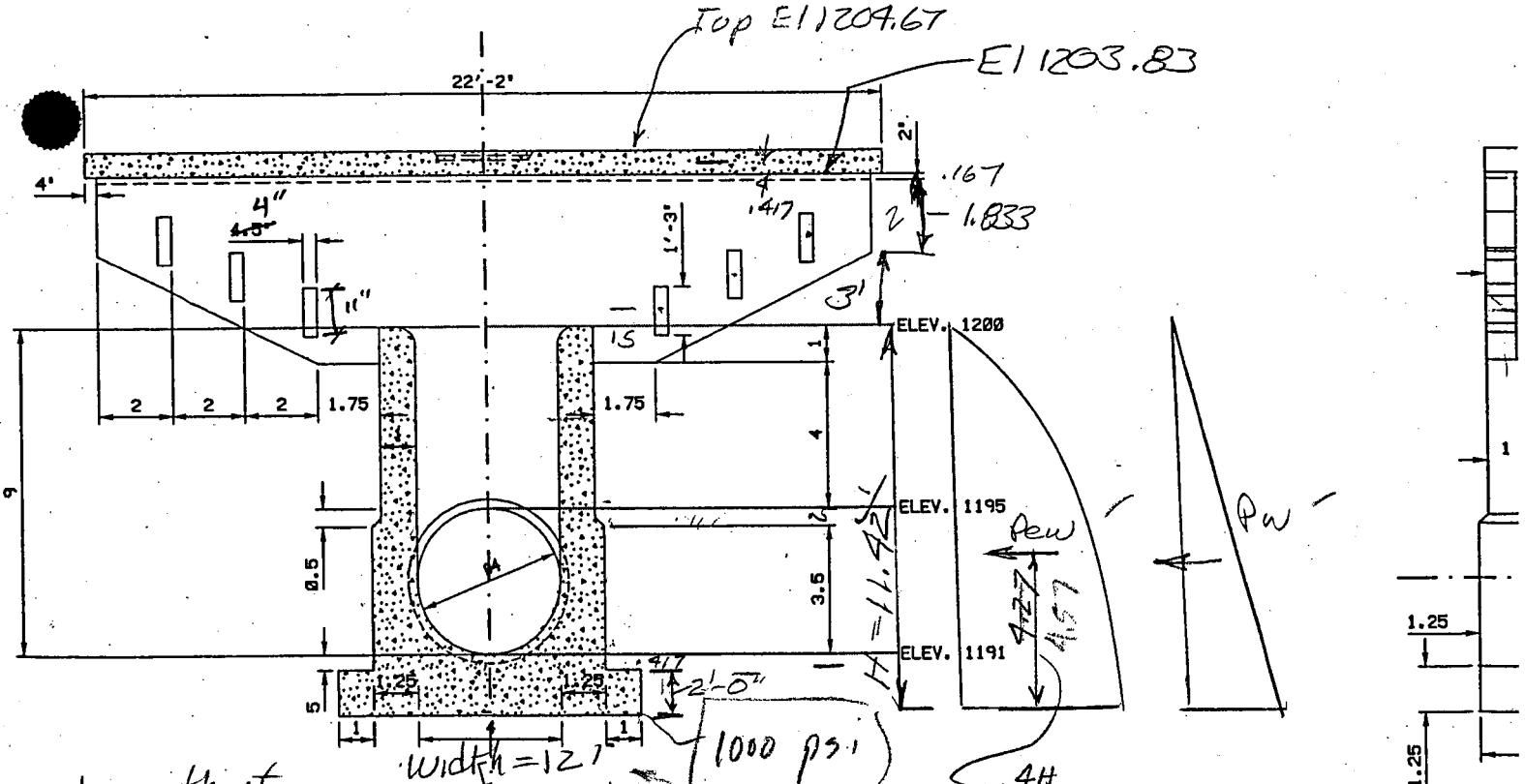
ok

- ✓ The Recommended Peak Acceleration submitted to Flood Control District of Maricopa County is 0.1g. The State of Arizona recommends using 60% of the peak acceleration ∴ $K_h = 0.06$ Documents attached



PLAN
PRINCIPAL SPILLWAY RISER

1.25 0 1.25 2.5
SCALE IN FEET



~~SECTION~~ A
PRINCIPAL SPILLWAY RISER

1.25 0 1.25 2.5
SCALE IN FEET

Design mod by HKB

ELE
PRI

URS

Job: White Tanks | Project No. | Page 2 of
Description: Principal Spillway Riser | Computed by | Sheet of
Checked by: TEM | Date: 9/13/04
SJD 8/20/04 | Reference

Solution:

- Compute earthquake load due to water outside of tower

$$P_{ew} = \frac{2}{3} C_e \alpha_h H^2 \text{Width}$$

Assume $C_e = 51$
$H = 11.42$
$W = 14.5'$

$$P_{ew} = \frac{2}{3}(51)(.06)(11.42)^2\, 14.5$$
$$= 3857.7 \text{ lb}$$

arm $= 11.42(.4) = 4.56'$

$$\text{Mom} = 3857.7(4.56) = 17{,}591 \text{ ft-lb}$$ Seismic water

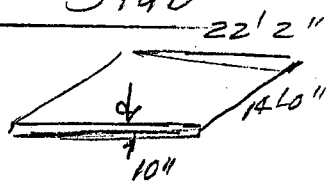
- Compute loads of each concrete element assuming the force due to earthquake is hor. accel times the mass of the element. These forces are assumed to act at the centroid of the element

Note: The uplift load based on a water load up to the spwy crest will be computed to account for the bouyant weight of the structure --- No water inside, but water load down on the heels will be computed.

URS

Job: White Tanks | Project No. | Page 3 of ___
Description: Principal Spillway Psel | Computed by | Sheet ___ of ___
Checked by: TEM | Date | Date 4/13/04
SJD 8/20/04 | Reference

1.) Top slab



assume $\gamma_{conc} = 150$ lb/ft3

$F_1 = 22.167(14) \cdot .833(150)(0.08)$

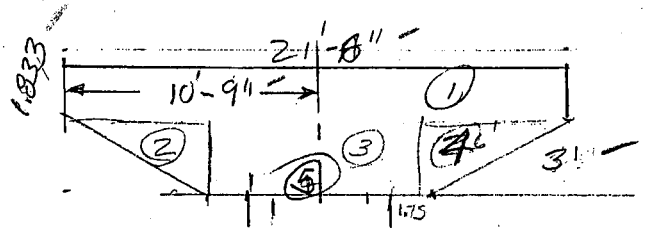
$= 2327$ lb

arm to the top of the base slab

arm = 14.67

$M_{F_1} = 2327(14.67) = 34,137$ ft-lb

2. Support walls for top slab and trash racks



Compute centroid of wall

Part of area	A	y from bottom	Ay
1	.833(21.5) = 39.41	3.917	154.4
3	6(3.0) = 9.0	2.0	18.0
2	3.00(9.5) = 28.5	1.5	42.75
4	6.0(3.0) = 9.0	2.0	18.0
5	1.75	.833	
	94.41		233.15
minus void holes	9.5		
	85.91		

could neglect for centroid ok

ok $y = \frac{233.15}{85.91} = 2.71'$ 2.46' from bottom

distance from top of slab = 8.417 + 2.71 = 11.13 ft

URS

Job: White Tanks | Project No. | Page 4 of
Description: Principal Spillway Riser | Computed by | Sheet of
Checked by: TEM SJD 8/20/04 | Date 8/13/04 | Reference

Weight of each wall –

1.833 (21.5) = 39.41
6 (3.00/2) 2 = + 18.00
9.5 (3.00) = 28.5
minus holes .33 (.917) .833 (6) = − 4.51 1.833

conservative ok

= ~~84.4~~ 84.1

wt = (.833) 150 (84.4) = 10,546 lb

3 walls – EQ load = 10,546 (.06) 3 –
= 1898 lb

Mom = 1898 (10.88 = 20,653 ft-lb –
11.13

arm is 10.88

21,125 lbs

1639 lb

Mom – = 19,209 ft lb

3.) 1'-3" thick end walls

U/S end 5'6"

CONSERV: 6.5

wt = 8.5 (1.25) 9.417 (150) = 15,008 lb –

arm = 9.417/2 = 4.71 (to top of stub)

Mom = 15,008 (4.71) .06 = 4241 ft-lb –

D/S end

Approximate – take height to ℄ of 48" Dia pipe –

wt = 8.5 (1.25) 7.0 (150) = 11,156 –

arm = 7/2 + 2.417 = 5.917

Mom D/S = 11,156 (5.917) .06 = 3961 ft-lb –

URS

Job: White tanks | Project No. | Page 5 of
Description: Principal Spillway | Computed by | Sheet of
Checked by: TEM | Date | Date: 9/13/04
Reference

rev 1

SJD 8/20/04

4.) 1'-3" thick side walls

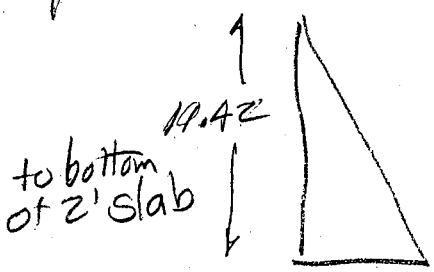
ht of wall = 8.417'

wt of wall (2) 12 (1.25) 9.417 (150) = 42,376 lb

arm = 4.71 ft to top slab

Mom = 42,376 (4.71) .06 = 11,925 ft-lb

Compute moment of site water



$P_w = \frac{(11.42)^2(62.4)}{2} = 4069$ lb

$M_w = 4069 \left(\frac{11.42}{3}\right) = 224,595$ ft-lb

Compute wt. of water on slab:

12 (wide) × 14.5 (long) = 174 ft²

uplift = 11.42 (62.4) 174 = 123,994 lb

load down on heels = 5.5 (14.5) 62.4 (11.42) = 56,830 lb

67,164 lb Net

URS

Job: White Tanks — Project No. 23443748 — Page 6 of ___ (00512)

Description: Principal Spillway Riser — Computed by: ___ — Date: ___

Checked by: TEA — Date: 2/13/01

SJD 8/20/04 — Reference

Compute loads of trash rack members assuming MC10X25 channels

Channel A (lowest)

Weight ~~Area~~ = 25(14.5) = 362.5 lb

arm from ℄ slab

arm = 11.92 ft

f_A = 362.5(.06)2 = 43.5 lb

Mom_A = 43.5(11.92) = 518.5 ft-lb

Channel B (Middle)

arm = 12.92

f_B = 362.5(.06)2 = 43.50

Mom_B = 43.50(12.92) = 562 ft-lb

Channel C (Top)

arm = 13.92

M_C = 43.5(13.92) = 605.5 ft-lb

URS

Job: White Tanks | Project No. | Page 7 of
Description: Principal Spillway Riser | Computed by | Sheet of
Checked by: TEA | Date | Date: 7/13/04
SSD 8/20/04 | Reference

Compute vertical loads from sheets 4, 5 + 6

top slab wt = 38,780 lb

support walls wt = 31,638 lb

1'-3" Thick end walls wt = 26,164 lb

1'-3" thick walls wt = 42,376 lb

~~136,958~~

assume 12' × 14.5 × 2' thick slab = 52,200 lb

wt = 12(14.5)2(150)

uplift load on slab 191,158 lb

pg 5 ~~67,164~~

Σ = ~~129,994~~ 123,994

M overturning:

seismic water = 17,597 ft-lb

top slab = 34,137 ft-lb

support walls = ~~20,653~~ 21,125 ft-lb

w/ send wall 4,241 ft-lb

w/o end wall = 3,961 ft-lb

side walls 11,975 ft-lb

static water 224,595 ft-lb

Channel A 519 ft-lb

Channel B 562 ft-lb

Channel C 606 ft-lb

approx. numbers

Σ overturning 318,846 ft-lb

319,312

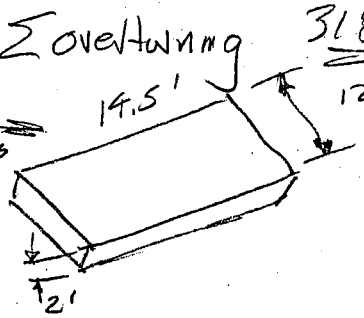
Bouyancy

$w_{riser} = 191^k$

$w_{displaced\ water} = (6.5' \times 14.5' \times 9.42') \times 62.4$ + (12' × 2' × 14.5')

$= \cancel{55,101}$ 77,116 lbs checks ok

$F.S._{bouy} = \frac{191^k}{77^k} = 2.5 > 1.5 \therefore$ ok



URS

Job: White Tanks | Project No. | Page 8 of ____ | Sheet ____ of ____

Description: Principal Spillway Riser | Computed by: HKB | Date: 8-2-04

Checked by: TEM | Date: 9/13/04 | Reference

SSD 8/20/04

P over 1 ft strip — A for 1 ft strip

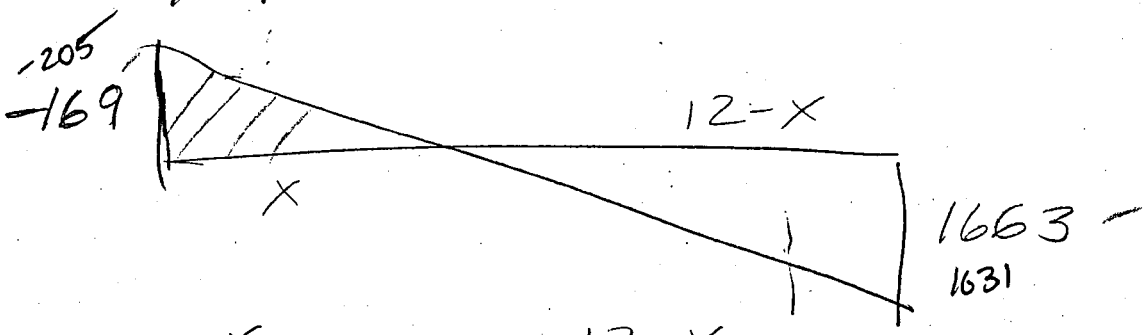
M for 1 ft strip — c = 6'

I for 1 ft strip

$$\frac{P}{A} = \frac{Mc}{I}$$

$$\frac{\overset{8551}{8965}}{12} \pm \frac{\overset{22,022}{21,989(6)}}{144}$$

$$\overset{713}{747} \pm \overset{918}{916.2}$$



$$\frac{X}{169} = \frac{12-X}{1663\ 1631}$$

$$\overset{205}{169}\overset{1631}{1663}X = \overset{2460}{2028} - \overset{205}{169}X$$

$$\overset{1836X}{1832X} = 2028$$

$$X = 1.1 \text{ ft.} \quad 1.3'$$

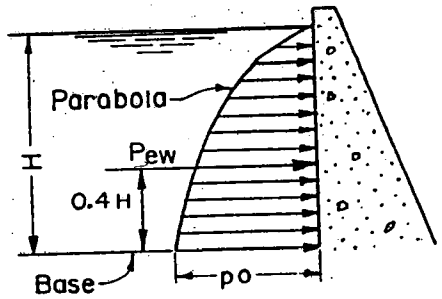
$$\text{load/ft} = \frac{\overset{205}{169}(\overset{1.3}{1.1})}{2} = \overset{133}{93}\ 16$$

$$\text{over } \underset{\overset{14'}{?}}{4\text{ ft}} = 4(93) = 372$$

14(133) = 1,862 lbs

1.9k

This is not significant enough to require addition of anchor bars



$$po = C_e \, \alpha_h \, H$$

$$P_{ew} = \frac{2}{3} C_e \, \alpha_h \, H^2$$

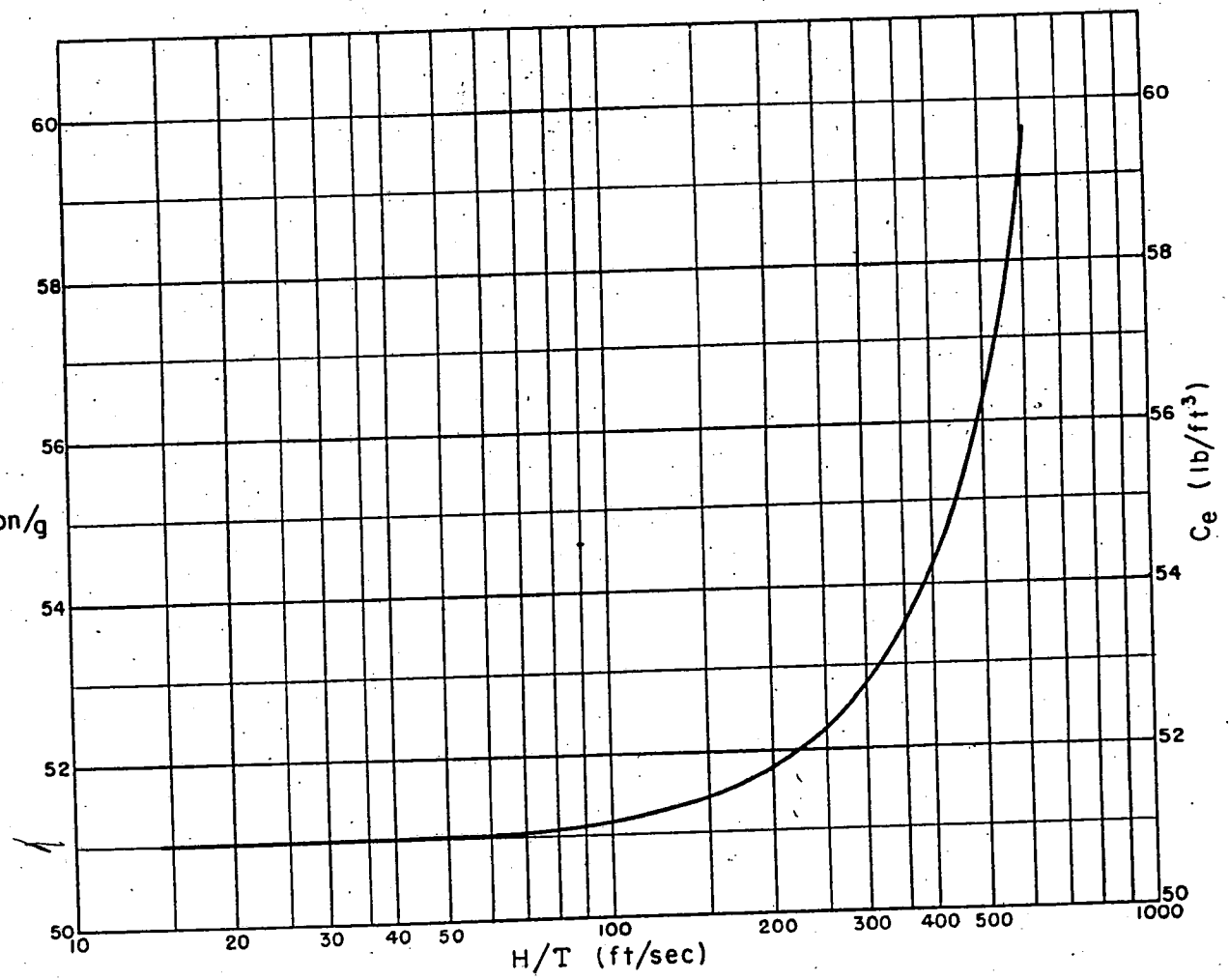
$$M = \frac{4}{15} C_e \, \alpha_h \, H^3$$

α_h = horizontal ground acceleration/g

T = earthquake period (sec)

$$C_e = \frac{51}{\sqrt{1 - 0.72 \left(\frac{H}{1000T}\right)^2}}$$

See Reference 22.



SEISMIC WATER PRESSURE FACTOR

Figure 10

TRR

amec

Seismic Exposure Evaluation
Dam Safety Program
Flood Control District of Maricopa County

Submitted to:

Flood Control District of Maricopa County
Phoenix, Arizona

REGISTERED GEOLOGIST
CERTIFICATE NO.
12999
RALPH E.
WEEKS
Date Signed
ARIZONA U.S.A.

Submitted by:

AMEC Earth & Environmental, Inc.
Phoenix, Arizona

May 2, 2002

AMEC Job No. 0-117-001122, Task 2

amec

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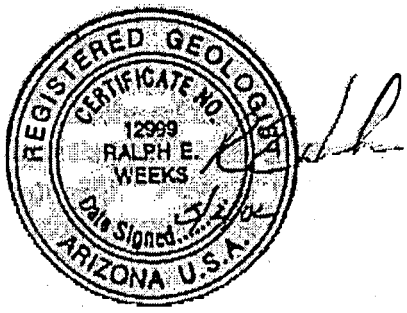


amec

Table 2

Map ID[1]	Facility Name	[illegible]		Sugarloaf Fault				Verde Fault			
		Distance	[illegible]	Distance	A&S	Campbell	SEA99	Distance	A&S	Campbell	SEA99
1	Adobe Dam	199		56	6	6	2	92	5	4	2
2	Apache Junction FRS	248		27.5	12	15	4	120	4	3	1
3	Buckeye FRS No. 1	210		106	3	2	1	136	3	3	1
4	Buckeye FRS No. 2	214.5		102	3	3	1	133	4	3	1
5	Buckeye FRS No. 3	212		97	4	3	1	129	4	3	1
6	Casandro Wash Dam	155		116	3	2	1	100	5	4	2
7	Cave Buttes Dam	199.4		48.4	7	7	2	88	5	4	2
8	Dreamy Draw Dam	216		50.7	7	7	2	104.4	4	4	2
9	Guadalupe FRS	237.4		57	6	6	2	125	4	3	1
10	Harquahala FRS	200.4		147.7	2	2	1	155	3	2	1
11	McMicken Dam	190.5		83	4	3	2	103	4	4	2
12	New River Dam	191		65	5	5	2	90.6	5	4	2
13	Powerline FRS	254		35.2	9	11	3	127.3	4	3	1
14	Rittenhouse FRS	264.7		43.6	8	8	3	137.8	3	2	1
15	Saddleback FRS	203.4		146	2	2	1	157.5	3	2	1
16	Signal Butte FRS	245.6		28.5	12	14	4	119	4	3	1
17	Spook Hill FRS	239		30.3	11	13	4	114.6	4	3	1
18	Sunnycove FRS	156		115	3	2	1	100.3	5	4	2
19	Sunset FRS	155		115.6	3	2	1	100	5	4	2
20	Vineyard FRS	257		37.2	9	10	3	130.3	4	3	1
21	White Tanks FRS No. 3	205.6		90.6	4	3	1	119.7	4	3	1
22	White Tanks FRS No. 4	214.7		94	4	3	1	128.6	4	3	1

NOTES

All attenuated peak ground accelera
Values in red are the maximum calcıered.
[1]See Figure 3.

Attenuation Relationships

[2]Abrahamson and Silva (1997).
[3]Campbell (2000).
[4]Spudich and others (1999).

amec

APPENDIX A

APPENDIX B

TABLE 4

Recommended Peak Horizontal Acceleration
Seismic Exposure Evaluation
Dam Safety Program

Map ID	Facility Name	Source	Recommended PGA (%g)
1	Adobe Dam	Background	10
	Apache Junction FRS	Sugarloaf Fault	15
3	Buckeye FRS No. 1	Background	10
4	Buckeye FRS No. 2	Background	10
5	Buckeye FRS No. 3	Background	10
6	Casandro Wash Dam	Background	10
7	Cave Buttes Dam	Horseshoe Fault	10
8	Dreamy Draw Dam	Background	10
9	Guadalupe FRS	Background	10
10	Harquahala FRS	Background	10
11	McMicken Dam	Background	10
12	New River Dam	Background	10
	Powerline FRS	Sugarloaf Fault	11
	Rittenhouse FRS	Background	10
15	Saddleback FRS	Background	10
16	Signal Butte FRS	Sugarloaf Fault	14
17	Spook Hill FRS	Sugarloaf Fault	13
18	Sunnycove FRS	Background	10
19	Sunset FRS	Background	10
20	Vineyard FRS	Sugarloaf Fault	10
21	White Tanks FRS No. 3	Background	10
22	White Tanks FRS No. 4	Background	10

Note:
Deterministically-derived values presented in red.

The stability analysis shall use undrained strengths or strength parameters for all saturated materials.

c. The applicant shall perform an analysis of the upstream slope stability for a partial pool with steady seepage considering the reservoir level that provides the lowest factor of safety.

d. A stability analysis is not required for low hazard potential dams if the owner or the owner's engineer demonstrates that conservative slopes and competent materials are included in the design.

2. Seismic Requirements

a. The applicant shall determine the seismic characteristics of the site as prescribed in subsection (A)(6).

b. The applicant shall determine the liquefaction susceptibility of the embankment, foundation, and abutments. The applicant shall use standard penetration testing, cone penetration testing, shear wave velocity measurements, or a combination of these methods to make this determination. The applicant shall compute the minimum factor of safety against liquefaction at specific points and make a determination of whether the overall site is subject to liquefaction.

c. The applicant shall determine the safety of the dam under seismic loading using a pseudo static stability analysis, computing the minimum factor of safety if the embankment, foundation or abutment is not subject to liquefaction and has a maximum peak acceleration of 0.2g or less, or a maximum peak acceleration of 0.35g or less, and consists of clay on a clay or bedrock foundation. The applicant shall use in the pseudo static stability analysis a pseudo static coefficient that is at least 60% of the maximum peak bedrock acceleration at the site.

.6(.10g) = .06g

d. The applicant shall compute a minimum factor of safety against overtopping due to deformation and settlement in each of the following cases. The minimum factor of safety against overtopping can be no less than 2.5, determined by dividing the total pre-earthquake freeboard by the estimated vertical settlement in feet. The applicant shall determine the total vertical settlement by adding the settlement values of the upstream and downstream slopes.

i. The minimum factor of safety in a pseudo static analysis is less than 1.0;

ii. An embankment, foundation, or abutment is not subject to liquefaction, has a maximum peak acceleration of more than 0.2g or a maximum peak acceleration of more than 0.35g and consists of clay on a clay or bedrock foundation; or

iii. The embankment, foundation or abutment is subject to liquefaction.

e. The applicant shall perform a liquefaction analysis to establish approximate boundaries of liquefiable zones and physical characteristics of the soil following liquefaction for an embankment, foundation, or abutment subject to liquefaction. The applicant shall perform an analysis of the potential for flow liquefaction.

f. Other, more sophisticated analytical procedures may be required by the Director for sites with high seismicity or low strength embankment or foundation soils.

3. Miscellaneous Design Requirements

a. The design of any significant or high hazard potential dam shall provide seepage collection and prevent internal erosion or piping due to embankment cracking or other causes.

b. The Director shall review the filter and permeability design for a chimney drain, drain blanket, toe drain, or outlet conduit filter diaphragms on the basis of unique site characteristics.

i. The minimum thickness of an internal drain is 3 feet.

ii. The minimum width of a chimney drain is 6 feet.

iii. The applicant shall filter match an internal drain to its adjacent material.

iv. The applicant shall design internal drains with sufficient capacity for the expected drainage without the use of drainpipes using only natural granular materials.

c. The use of a geosynthetic is not permitted in a design if it serves as the sole defense against dam failure. The use of geotextiles and geonets as a filter or drain material or a geomembrane liner is permitted only in a location that is easily accessible for repair or if its excavation cannot create an unsafe condition at the dam. A geosynthetic liner is allowed under special conditions and in specific situations if it is subject to monitoring and redundant safety controls. The Director may impose conditions, including monitoring appropriate to the hazard classification, inspection, and necessary repairs, each performed every 5 years.

d. The applicant shall use armoring on any upstream slope of an embankment dam that impounds water for more than 30 days at a time. If the applicant uses rock riprap, it shall be well-graded, durable, sized to withstand wave action, and placed on a well-graded pervious sand and gravel bedding or geotextile with filtering capacity appropriate for the site.

e. The applicant shall protect the downstream slopes and groins of an embankment dam from erosion.

f. The minimum width of the top of an embankment dam is equal to the structural height of the dam divided by 5 plus an additional 5 feet. The required minimum width for any embankment dam is 12 feet. The maximum width for any embankment dam is 25 feet.

Historical Note

New Section adopted by final rulemaking at 6 A.A.R. 2558, effective June 12, 2000 (Supp. 00-2).

CALCULATION PACKAGE NO. H-2

EXHIBIT 4.7-2

CALCULATION COVER SHEET

Client: Flood Control District of Maricopa County

Project Name: White Tanks

Project/Calculation Number: 23443748.00312

Title: Principal Spillway Structure Wall Strength Design

Total Number of Pages (including cover sheet): 29

Total Number of Computer Runs: NA

Prepared By: Harold Blair **Date:** 7/28/2004

Checked By: Steve Dominic S.D.D. **Date:** 8/20/2004

Description and Purpose

Determine strength requirements for the principal spillway riser walls.

Design Basis/References/Assumptions

Working stress design utilized for determining reinforcement requirements consistent with approach presented in NRCS Engineering Handbook, Section 6.

Remarks/Conclusions/Results

Review included the following recommendations:

1. Add check for horizontal bending across 4-foot span of riser structure. Completed ok S.D.D.
2. Add silt load, as appropriate, for computing reinforcement requirements. Completed ok S.D.D.
3. Add shear check calculation or state okay by inspection for completeness of calculations. completed ok S.D.D.

Design results in #6 O.C. EW, EF in riser wall neglecting sediment load.

Calculation Approved By: Todd Ringsmuth 9-9-04

Project Manager/Date

Revision No.:	Revision Description:	Approved By:

Project Manager/Date

URS

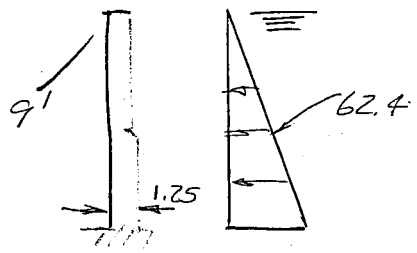
Job: White Tanks | Project No. | Page ___ of ___
Description: Principal Spwy Riser | Computed by: HKB | Sheet ___ of ___
Checked by: SJD | Date: 7-27-04 | Date: 8/20/04 | Reference

① check for horizontal reinf.? short span 4' check
② silt load? to be added
③ shear check for completeness or state ok by inspect.

Compute vertical reinf. in riser walls

Assumptions:

- Water load outside to crest El ✓
  + no water inside
- Use 1' strip of wall (Conservative) ✓
  assume bottom of wall @ El 1191
  wall ht = 9.0 ft
- Apply E.Q. load



$M = \frac{wl^3}{6} = \frac{62.4(9^3)}{6} = 7581.6$ ft-lb ✓

$P_{ew} = \frac{2}{3}(51)(.06)\,9^2 = 165.2$ ✓

$M_{ew} = 165.2(9).4 = 595$ ✓

$\Sigma M = 7581.6 + 595 = 8176.6$ ✓

$A_s = \frac{M}{f_s j d} = \frac{8176.6(12)}{20{,}000(.870)12.5}$

$A_s = .45$ ✓ use #6@1'-0"

$f_s = 20{,}000$ psi ✓
$d = 12.5$ ✓
$j = .870$ ✓

Temp reinf = .002(12)15 or .002(12)12
= .36 in² ✓ .29 in² ✓

Wall is 1'-3" for full height

Use #6@1'-0" in both faces and both directions in riser walls ✓

URS

Job: White Tanks | Project No. 23443748 .00312 | Page 1 of ___
Description: Principal Spillway Riser | Computed by: HKB | Sheet ___ of ___
Checked by: SJD | Date: 8-24-04
Date: 8/25/04
Reference

Compute vertical reinf. in riser walls

Assumptions:

- Saturated sediment load outside to crest elevation and no water inside
- Assume bottom of wall @ El 1191
  wall ht. = 9.0'
- Assume the unit soil weight for saturated soil is 140 pcf — see pg 1-6 TR30 (attached)
- Assume $\phi = 30°$
- Assume at rest pressure of sediment on wall
  $K = 1 - \sin\phi$
  $= 1 - \sin 30$
  $K = .50$
- Assume 1-ft wide strip for vertical reinforcement.

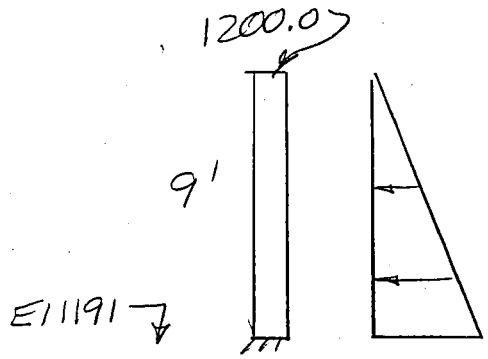
URS

Job: White Tanks | Project No. 23443748.00313 | Page 2 of ___ | Sheet ___ of ___

Description: Principal Spillway Riser | Computed by: MKB | Date: 8-24-04

Checked by: SJD | Date: 8/25/04

Reference



Sediment load on wall

compute psuedo static sediment load:

$140\,pcf - 62.4\,pcf = 77.6\,pcf$

hor. load/ft³ of soil $= .5(77.6) = 38.8\,pcf$

add water $w = 62.4 + 38.8 = 101.2\,pcf$

$$M = \frac{wl^3}{6} = \frac{101.2(9^3)}{6} = 12{,}295.8\,ft\text{-}lb$$

$f_s = 20{,}000\,psi$

$d = 12.5\,in$

$j = .870$

$$A_s = \frac{M}{f_s j d}$$

$$= \frac{12{,}296\,(12)}{20{,}000(.87)\,12.5}$$

$$A_s = \underline{\underline{.68}}\,in^2$$

Check requirement assuming a plate supported on three sides and free at the top.

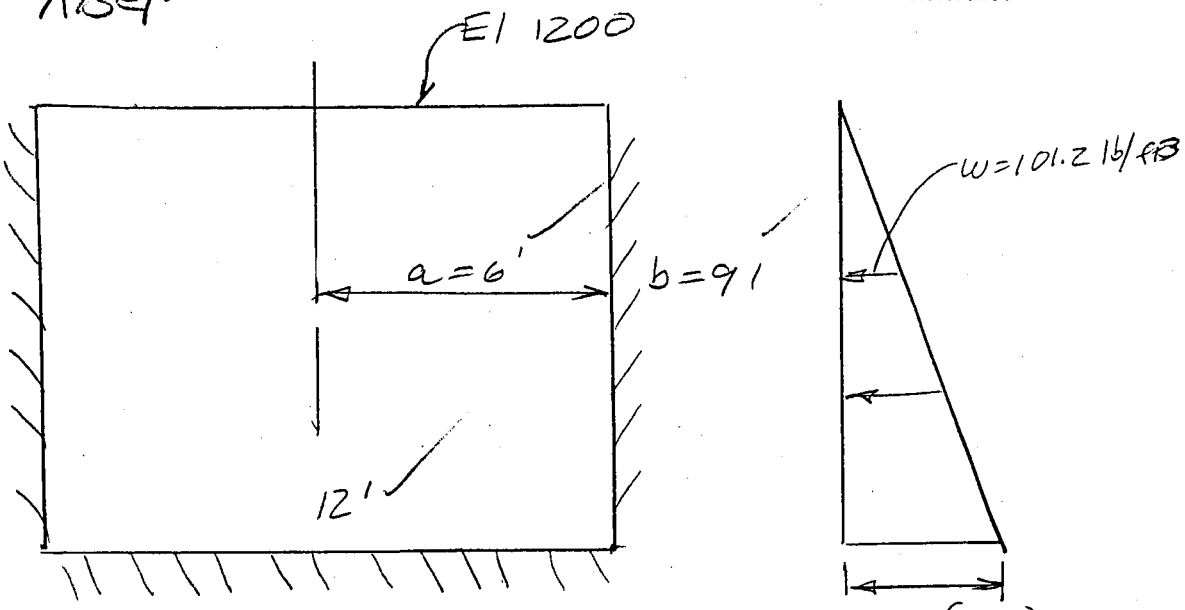
URS

Job: White Tanks | Project No. 23443748.00312 | Page 3 of ___ | Sheet ___ of ___

Description: Principal Spillway Riser | Computed by: HKB | Date: 8-24-04

Checked by: SSD | Date: 8/25/04

Reference



$P = 9(101.2) =$
$P = 910.8$ lb

use fig 4 Monograph No 27

$a/b = \frac{6}{9} = .67$ Use $a/b = \frac{3}{4}$

find max. coef for M_y

this is at $y/b = 0$ + $x/a = 1.0$

coef = .0584 worst case

$Mom = coef\,(pb^2)$ $d = 12.5''$

$= .0584\,(910.8)\,9^2$

$Mom = 4308.4$ ft-lb

$$As = \frac{M}{f_s j d} = \frac{4308.4(12)}{20{,}000(.87)\,12.5}$$

$= .24\ in^2$ ∴ Cantilever approach is conservative

The requirement for the 1-ft strip analysis is $.69\ in^2$. Use #6@10" vertical, both faces

→ A_s provided $= 0.44\ in^2$
> plate analysis
< cantilever analysis
> temp req'd

ck SSD

URS

Job: White Tanks | Project No. 23443748 | Page 4 of ____ | Sheet ____ of ____

Description: Principal Spillway Riser | Computed by: HKB | Date: 8-24-04

Checked by: SSD | Date: 8/25/04

Reference

Compute horizontal reinf. in wall for plate fixed on three sides

Max M_x is at $y/b = 1.0$ & x/a @ 0

coef = .0406

$M_x = \text{coef}\ pb^2$

$= .0406(910.8)9^2$

$M_x = 2995$ ft-lb

$A_s = \frac{M}{f_s j d} = \frac{2995(12)}{20{,}000(.87)12.5}$

$= .17\ in^2$

temp reinf = $.002\ bd$

$= .002(12)12.5$

$= .31\ in^2$

use #5 @ 1'-0" horizontal

A_s provided = $0.31\ in^2$ ok

URS

Job: White Tanks | Project No. | Page ___ of ___
Description: Principal Spillway Risel | Computed by | Sheet ___ of ___
Checked by: SJD | Date | Date: 8/25/04
Reference

$P = 910.8$ lb

Check max. shear

R_x max @ $y/b = .4$ coef $= .2542$

$R_x = \text{coef}(pb)$
$= .2542(910.8)\ 9$
$= 2084$ lb

R_y max $x/a = 1.0$ coef $= .4055$

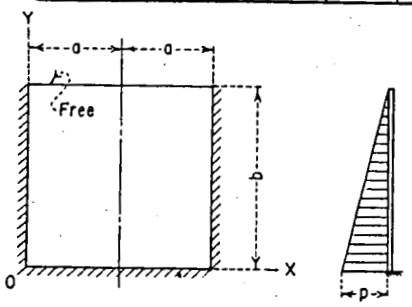
$R_y = \text{coef}(pb)$
$= .4055(910.8\ \text{lb})\ 9$
$= 3324$ lb

allowable $V_c = 1.1\sqrt{f'_c}$
$= 1.1\sqrt{4000}$
$V_c = 70$ psi

shear $= \dfrac{V}{bd} = \dfrac{3324}{12(12.5)}$
$= \underline{\underline{22.2}}$ psi

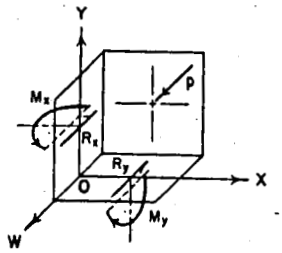
70 psi > 22.2 O.K
shear

			M_x						M_y					
	y/b	R_x \ x/a	0	0.2	0.4	0.6	0.8	1.0	0	0.2	0.4	0.6	0.8	1.0
a/b = 1/8	1.0	+.0082	+.0004	+.0002	+.0000	−.0001	−.0002	−.0002	0	0	0	0	0	0
	0.8	+.0251	+.0011	+.0005	+.0000	−.0003	−.0005	−.0005	+.0002	+.0001	+.0000	−.0000	−.0001	−.0001
	0.6	+.0496	+.0021	+.0009	+.0001	−.0006	−.0009	−.0011	+.0004	+.0002	+.0000	−.0001	−.0002	−.0002
	0.4	+.0751	+.0031	+.0014	+.0001	−.0008	−.0014	−.0016	+.0006	+.0003	+.0000	−.0002	−.0003	−.0003
	0.2	+.0942	+.0038	+.0016	+.0000	−.0010	−.0017	−.0019	+.0008	+.0003	−.0000	−.0003	−.0005	−.0005
	0	+.0460	0	+.0001	+.0003	+.0005	+.0006	+.0006	0	+.0005	+.0014	+.0023	+.0028	+.0030
		R_x \ R_y	+.0460	+.0136	+.0543	+.0839	+.1004	+.1056						
a/b = 1/4	1.0	+.0147	+.0022	+.0012	+.0002	−.0006	−.0012	−.0014	0	0	0	0	0	0
	0.8	+.0523	+.0046	+.0022	+.0002	−.0012	−.0021	−.0024	+.0009	+.0005	+.0002	−.0000	−.0002	−.0002
	0.6	+.1015	+.0083	+.0037	+.0002	−.0023	−.0038	−.0042	+.0017	+.0007	−.0000	−.0005	−.0009	−.0010
	0.4	+.1514	+.0114	+.0049	+.0001	−.0032	−.0051	−.0057	+.0023	+.0008	−.0004	−.0013	−.0019	−.0021
	0.2	+.1494	+.0102	+.0037	−.0004	−.0030	−.0043	−.0047	+.0020	+.0004	−.0011	−.0022	−.0029	−.0031
	0	+.0304	0	+.0004	+.0010	+.0016	+.0020	+.0021	0	+.0020	+.0052	+.0081	+.0100	+.0107
		R_x \ R_y	+.0304	+.0309	+.1052	+.1563	+.1856	+.1950						
a/b = 3/8	1.0	+.0189	+.0066	+.0040	+.0008	−.0020	−.0039	−.0045	0	0	0	0	0	0
	0.8	+.0885	+.0117	+.0056	+.0006	−.0031	−.0054	−.0062	+.0023	+.0012	+.0004	−.0002	−.0005	−.0007
	0.6	+.1541	+.0176	+.0075	+.0001	−.0049	−.0079	−.0088	+.0035	+.0013	−.0006	−.0020	−.0029	−.0032
	0.4	+.2107	+.0208	+.0079	−.0007	−.0061	−.0090	−.0099	+.0042	+.0009	−.0019	−.0042	−.0056	−.0061
	0.2	+.1691	+.0145	+.0045	−.0012	−.0042	−.0057	−.0061	+.0029	+.0001	−.0022	−.0039	−.0048	−.0051
	0	+.0102	0	+.0008	+.0020	+.0030	+.0038	+.0040	0	+.0039	+.0099	+.0152	+.0188	+.0200
		R_x \ R_y	+.0102	+.0474	+.1488	+.2154	+.2526	+.2645						
a/b = 1/2	1.0	+.0326	+.0151	+.0088	+.0015	−.0046	−.0084	−.0097	0	0	0	0	0	0
	0.8	+.1315	+.0216	+.0099	+.0007	−.0059	−.0099	−.0112	+.0043	+.0020	+.0002	−.0011	−.0019	−.0022
	0.6	+.1972	+.0273	+.0108	−.0005	−.0079	−.0119	−.0132	+.0055	+.0015	−.0020	−.0047	−.0064	−.0070
	0.4	+.2421	+.0277	+.0092	−.0019	−.0082	−.0115	−.0125	+.0055	+.0004	−.0042	−.0076	−.0097	−.0104
	0.2	+.1607	+.0160	+.0041	−.0017	−.0044	−.0055	−.0058	+.0032	−.0002	−.0026	−.0039	−.0044	−.0046
	0	−.0045	0	+.0014	+.0033	+.0050	+.0061	+.0065	0	+.0068	+.0167	+.0252	+.0307	+.0325
		R_x \ R_y	−.0045	+.0744	+.1942	+.2699	+.3108	+.3236						
a/b = 3/4	1.0	+.1061	+.0406	+.0196	+.0013	−.0115	−.0190	−.0214	0	0	0	0	0	0
	0.8	+.2077	+.0433	+.0177	−.0003	−.0119	−.0184	−.0205	+.0087	+.0031	−.0012	−.0042	−.0061	−.0067
	0.6	+.2408	+.0426	+.0145	−.0026	−.0124	−.0174	−.0189	+.0085	+.0010	−.0055	−.0102	−.0130	−.0139
	0.4	+.2542	+.0349	+.0091	−.0039	−.0102	−.0130	−.0138	+.0070	−.0011	−.0075	−.0115	−.0137	−.0143
	0.2	+.1337	+.0163	+.0031	−.0017	−.0031	−.0033	−.0033	+.0033	+.0001	−.0000	+.0014	+.0029	+.0035
	0	−.0196	0	+.0028	+.0064	+.0093	+.0111	+.0117	0	+.0139	+.0320	+.0465	+.0554	+.0584
		R_x \ R_y	−.0196	+.1256	+.2666	+.3496	+.3923	+.4055						
a/b = 1	1.0	+.1985	+.0644	+.0253	−.0013	−.0172	−.0252	−.0276	0	0	0	0	0	0
	0.8	+.2564	+.0601	+.0210	−.0028	−.0161	−.0226	−.0245	+.0120	+.0034	−.0026	−.0065	−.0088	−.0095
	0.6	+.2485	+.0515	+.0149	−.0047	−.0145	−.0189	−.0201	+.0103	+.0003	−.0075	−.0125	−.0151	−.0159
	0.4	+.2411	+.0372	+.0078	−.0049	−.0100	−.0118	−.0122	+.0074	−.0021	−.0076	−.0099	−.0106	−.0107
	0.2	+.1108	+.0154	+.0025	−.0006	−.0006	−.0000	+.0003	+.0031	+.0018	+.0060	+.0116	+.0160	+.0175
	0	−.0241	0	+.0044	+.0096	+.0137	+.0161	+.0169	0	+.0220	+.0482	+.0683	+.0804	+.0845
		R_x \ R_y	−.0241	+.1691	+.3199	+.4038	+.4457	+.4584						
a/b = 3/2	1.0	+.3127	+.0857	+.0207	−.0087	−.0199	−.0232	−.0238	0	0	0	0	0	0
	0.8	+.2929	+.0730	+.0158	−.0086	−.0172	−.0194	−.0198	+.0146	+.0023	−.0042	−.0072	−.0082	−.0085
	0.6	+.2352	+.0560	+.0094	−.0083	−.0134	−.0142	−.0141	+.0112	−.0013	−.0077	−.0096	−.0096	−.0094
	0.4	+.2148	+.0359	+.0038	−.0053	−.0065	−.0057	−.0053	+.0072	−.0021	−.0023	+.0012	+.0046	+.0059
	0.2	+.0897	+.0132	+.0021	+.0025	+.0050	+.0069	+.0076	+.0026	+.0077	+.0220	+.0356	+.0444	+.0474
	0	−.0204	0	+.0079	+.0158	+.0212	+.0243	+.0252	0	+.0396	+.0791	+.1062	+.1214	+.1262
		R_y	−.0204	+.2452	+.3964	+.4668	+.4966	+.5047						



Moment = (Coefficient)(pb^2)

Reaction = (Coefficient)(pb)



POSITIVE SIGN CONVENTION

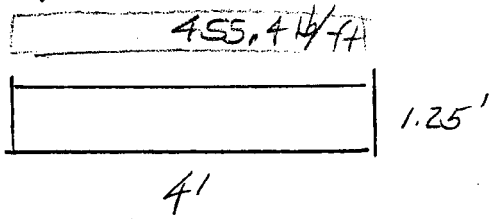
FIGURE 4.—*Plate fixed along three edges, moment and reaction coefficients, Load IV, uniformly varying load.*

URS

Job: White Tanks | Project No. | Page ___ of ___
Description: Principal Spillway Riser | Computed by | Sheet ___ of ___
Checked by: SJD | Date | Date: 8/25/04
Reference

Compute moment and shear on end walls - assume 1 ft strip at top of conduit. El 1195.5

Avg. Height ok for horiz. steel check



load/ft = (1200 − 1195.5) 101.2 = 455.4 lb/ft

assume beam simply supported

$M = \frac{wL^2}{8} = \frac{455.4(4.5)^2}{8} = 4858 \text{ ft-lb}$

d = 12.5"

fs = 20,000

J = .87

$A_s = \frac{M}{f_s j d} = \frac{4858(12)}{20{,}000(.87)12.5} = .27 \text{ in}^2$

use # 5 @ 1'-0" A_s provided = 0.31 in²

Check shear

Check shear @ support

$R = 455.4(2) = 910.8 \text{ lb}$

$v = \frac{R}{bd} = \frac{910.8}{12(12.5)} = 6.1 \text{ psi}$

$v_{all.} = 1.1\sqrt{f'_c}$

$= 70 \text{ psi}$

70 > 6.1 psi shear OK

CALCULATION PACKAGE NO. H-3

EXHIBIT 4.7-2

CALCULATION COVER SHEET

Client: Flood Control District of Maricopa County

Project Name: White Tanks

Project/Calculation Number: 23443748.00312

Title: Principal Spillway Structure Trashrack Sidewall Strength Design

Total Number of Pages (including cover sheet): 2

Total Number of Computer Runs: NA

Prepared By: Harold Blair **Date:** 7/28/2004

Checked By: Steve Dominic SJD **Date:** 8/20/2004

Description and Purpose

Determine strength requirements for the principal spillway trashrack sidewalls.

Design Basis/References/Assumptions

Working stress design utilized for determining concrete shear and reinforcement requirements consistent with approach presented in NRCS Engineering Handbook, Section 6.

Remarks/Conclusions/Results

Shear is adequate at trashrack sidewall connection to supporting riser walls. Minimum steel requirement result in #5 bars and 12" O.C.

Calculation Approved By: Todd Ringsmuth 9-9-04

Project Manager/Date

Revision No.:	Revision Description:	Approved By:

Project Manager/Date

URS

Job: White Tanks | Project No. | Page ___ of ___ | Sheet ___ of ___

Description: Principal Spillway Riser | Computed by | Date

Checked by: SJD | Date: 8/25/04

Reference

top slab middle support wall
check shear through top slab
support wall at El 1200 due
to earthquake load

force due to top slab — E.Q.

$F_1 = 22.167(14) \cdot .833(150) \cdot .06$
$= 2327$ lb

force due to support wall - top 1'-10" (E.Q.)

$F_2 = 1.833(21.33) \cdot .833(150) \cdot .06 = 293$ lb

force due to support wall from El 1200 up 2'

$17.4(2) \cdot .833(150) \cdot .06 = 260$ lb

Σ force $= 2880$ lb

allowable shear $= 1.1\sqrt{f'c} = 70$ psi

assume area resisting shear $= 3.5(2) \cdot .833 = 5.83$ ft^2
$= 839.5$ in^2

shear $= \frac{2880}{839.5} = 3.43$ psi

70 psi > 3.43 psi
∴ shear is O.K.

Check temp reinf. thickness = 10"

$A_s = .002(10)12 = .24$ in^2

Use #5 @ 1'-0" each way each face

A_s provided $= 0.31$ in^2 ok

CALCULATION PACKAGE NO. H-4

EXHIBIT 4.7-2

CALCULATION COVER SHEET

Client: Flood Control District of Maricopa County

Project Name: White Tanks

Project/Calculation Number: 23443748.00312

Title: Principal Spillway Structure Cover Slab Strength Design

Total Number of Pages (including cover sheet): 45

Total Number of Computer Runs: NA

Prepared By: Harold Blair **Date:** 7/28/2004

Checked By: Steve Dominic SJD **Date:** 8/20/2004

Description and Purpose

Determine strength requirements for the principal spillway cover slab.

Design Basis/References/Assumptions

Working stress design utilized for determining reinforcement requirements consistent with approach presented in NRCS Engineering Handbook, Section 6. Live load of 100 psf utilized in accordance with NRCS TR30.

Remarks/Conclusions/Results

Review included the following recommendations:

1. Add shear check calculation or state okay by inspection for completeness of calculations. completed ok SJD

Design results in #5 bars at 12" O.C. EW, EF.

Calculation Approved By: Tom Ringsmuth 9/9/04

Project Manager/Date

Revision No.:	Revision Description:	Approved By:

Project Manager/Date

URS

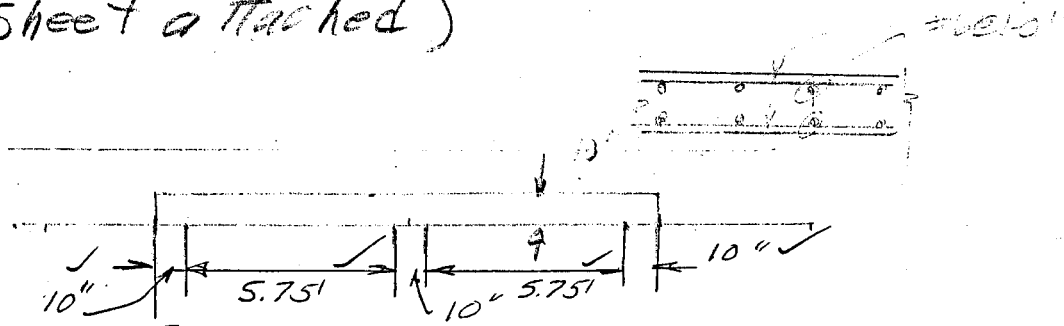
Job: White Tanks | Project No. | Page ___ of ___
Description: Principal Spillway Riser | Computed by: HKB | Sheet ___ of ___
Checked by: SJD | Date: 7-27-04 | Date: 8/20/04
Reference

① shear check ok by inspection — Compute reinf. in top slab ✓

Reference:

USDA - Soil Conservation Service Technical Release No. 30 ✓ "Structural Design of Standard Covered Risers"

(Sheet attached)



$M = \frac{qL^2}{8}$ for bottom face moments ✓

$M = \frac{qL^2}{12}$ for top face moments

use 100 psf live load ✓

Dead load = 150(.833) = 125 psf ✓

$M_{bottom} = \frac{qL^2}{8} = \frac{225(6.58^2)}{8} = 1217.7$ ft-lb ✓

$A_s = \frac{M}{f_s j d} = \frac{1217.7(12)}{20{,}000(.870)7.5}$ $j = .870$, $f_s = 20{,}000$, $d = 7.5$ in

$= .11 in^2$ ✓

Min reinf $= .002(12)10$

$= .24 in^2$

∴ Use #5 @ 1'-0" both directions in top and bottom layers ✓

CHAPTER 2. METHODS OF ANALYSIS AND DESIGN PROCEDURES

Cover Slab Walls

The cover slab walls support the cover slab, acting as variable depth cantilever beams. In the top portion of the riser, the riser walls will be 10 in. thick (the minimum thickness). Thus, to avoid steel placement difficulties, the cover slab walls will also be made 10 in. thick. With 10 in. walls, #5 @ 15" c.c. are required in each face to give

$$p_t = \frac{0.25}{120} = 0.0021 \geq 0.002.$$

With this wall thickness and amount of steel, rough computations will show that further analysis is unnecessary.

Cover Slab

The minimum thickness of the cover slab is 8 in., this is an adequate thickness for all D values. The total loading is 200 psf (100 psf live + 100 psf dead). Cover slab span is 3D + 10 in. c.c. of supports with 10-in. walls. Thus, the cover slab need be designed only once for each conduit size D. (The only exception to this might occur in the case of short risers which require additional wall thickness to satisfy the flotation criteria — in which event the procedures given below can be suitably modified.)

Moments in the cover slab are highly indeterminate. Therefore, the positive center moments shall be conservatively taken as $1/8\ qL^2$. Negative moments shall not be computed, but negative steel in the amounts required for T & S (temperature and shrinkage) shall be provided and shall be lapped with the outside T & S cover slab wall steel. A construction joint shall be provided in the cover slab walls at the elevation of the high stage crest.

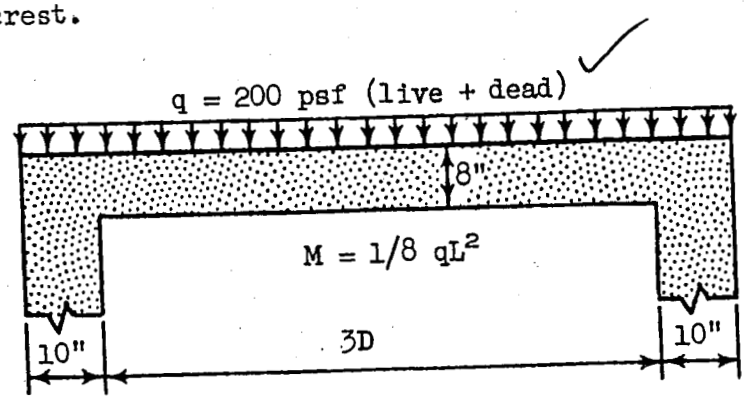
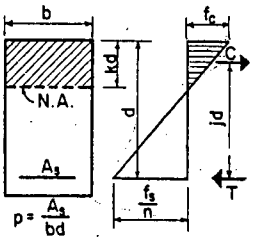


Figure 2-1. Definition sketch of cover slab.

Table 1. Coefficients *(K, k, j, p)* for Rectangular Sections

f'_c and n	f_c	K	k	j	p	K	k	j	p
		f_s = 16,000		a = 1.13		f_s = 18,000		a = 1.29	
2500	875.	137.	.356	.881	.0097	128.	.329	.890	.0080
	1000.	169.	.387	.871	.0121	158.	.359	.880	.0100
	1125.	201.	.415	.862	.0146	190.	.387	.871	.0121
10.1	1250.	235.	.441	.853	.0172	222.	.412	.863	.0143
	1500.	306.	.486	.838	.0228	291.	.457	.848	.0190
3000	1050.	173.	.376	.875	.0124	162.	.349	.884	.0102
	1200.	212.	.408	.864	.0153	199.	.380	.873	.0127
	1350.	252.	.437	.854	.0184	238.	.408	.864	.0153
9.2	1500.	294.	.463	.846	.0217	278.	.434	.855	.0181
	1800.	380.	.509	.830	.0286	362.	.479	.840	.0240
4000	1400.	249.	.412	.863	.0180	234.	.384	.872	.0149
	1600.	303.	.444	.852	.0222	286.	.416	.861	.0185
	1800.	359.	.474	.842	.0266	341.	.444	.852	.0222
8.0	2000.	417.	.500	.833	.0313	397.	.471	.843	.0261
	2400.	536.	.545	.818	.0409	513.	.516	.828	.0344
5000	1750.	327.	.437	.854	.0239	309.	.408	.864	.0199
	2000.	397.	.470	.843	.0294	376.	.441	.853	.0245
	2250.	468.	.500	.833	.0351	446.	.470	.843	.0294
7.1	2500.	542.	.526	.825	.0411	518.	.497	.835	.0345
	3000.	694.	.571	.810	.0535	666.	.542	.819	.0452



$p = \frac{A_s}{bd}$

$k = \frac{1}{1 + f_s/nf_c}$ | $j = 1 - \frac{1}{3}k$

$p^* = \frac{f_c}{2f_s} \times k$ | $K = \frac{f_c}{2}kj$

$a = \frac{f_s}{12{,}000} \times$ (aver. j-value)

for use in $A_s = \frac{M}{ad}$ or $A_s = \frac{NE}{adi}$

f_c	K	k	j	p
	f_s = 20,000		a = 1.44	
875.	120.	.306	.898	.0067
1000.	149.	.336	.888	.0084
1125.	179.	.362	.879	.0102
1250.	211.	.387	.871	.0121
1500.	277.	.431	.856	.0162
1050.	152.	.326	.891	.0085
1200.	188.	.356	.881	.0107
1350.	226.	.383	.872	.0129
1500.	265.	.408	.864	.0153
1800.	346.	.453	.849	.0204
1400.	221.	.359	.880	.0126
1600.	272.	.390	.870	.0156
1800.	324.	.419	.860	.0188
2000.	379.	.444	.852	.0222
2400.	492.	.490	.837	.0294
1750.	292.	.383	.872	.0168
2000.	358.	.415	.862	.0208
2250.	426.	.444	.852	.0250
2500.	496.	.470	.843	.0294
3000.	641.	.516	.828	.0387

f_c	K	k	j	p
	f_s = 22,000		a = 1.60	
875.	113.	.287	.904	.0057
1000.	141.	.315	.895	.0072
1125.	170.	.341	.886	.0087
1250.	200.	.365	.878	.0104
1500.	264.	.408	.864	.0139
1050.	144.	.305	.898	.0073
1200.	178.	.334	.889	.0091
1350.	214.	.361	.880	.0111
1500.	252.	.385	.872	.0131
1800.	331.	.429	.857	.0176
1400.	210.	.337	.888	.0107
1600.	258.	.368	.877	.0134
1800.	309.	.396	.868	.0162
2000.	362.	.421	.860	.0191
2400.	472.	.466	.845	.0254
1750.	278.	.361	.880	.0144
2000.	341.	.392	.869	.0178
2250.	407.	.421	.860	.0215
2500.	475.	.447	.851	.0254
3000.	617.	.492	.836	.0335

f_c	K	k	j	p
	f_s = 24,000		a = 1.76	
875.	107.	.269	.910	.0049
1000.	133.	.296	.901	.0062
1125.	161.	.321	.893	.0075
1250.	191.	.345	.885	.0090
1500.	253.	.387	.871	.0121
1050.	136.	.287	.904	.0063
1200.	169.	.315	.895	.0079
1350.	204.	.341	.886	.0096
1500.	240.	.365	.878	.0114
1800.	317.	.408	.864	.0153
1400.	199.	.318	.894	.0093
1600.	246.	.348	.884	.0116
1800.	295.	.375	.875	.0141
2000.	347.	.400	.867	.0167
2400.	454.	.444	.852	.0222
1750.	265.	.341	.886	.0124
2000.	326.	.372	.876	.0155
2250.	390.	.400	.867	.0187
2500.	456.	.425	.858	.0221
3000.	595.	.470	.843	.0294

f_c	K	k	j	p
	f_s = 27,000		a = 2.00	
875.	99.	.247	.918	.0040
1000.	124.	.272	.909	.0050
1125.	150.	.296	.901	.0062
1250.	178.	.319	.894	.0074
1500.	237.	.359	.880	.0100
1050.	126.	.264	.912	.0051
1200.	157.	.290	.903	.0064
1350.	190.	.315	.895	.0079
1500.	225.	.338	.887	.0094
1800.	299.	.380	.873	.0127
1400.	185.	.293	.902	.0076
1600.	230.	.322	.893	.0095
1800.	277.	.348	.884	.0116
2000.	326.	.372	.876	.0138
2400.	430.	.416	.861	.0185
1750.	247.	.315	.895	.0102
2000.	305.	.345	.885	.0128
2250.	366.	.372	.876	.0155
2500.	430.	.397	.868	.0184
3000.	564.	.441	.853	.0245

f_c	K	k	j	p
	f_s = 30,000		a = 2.24	
875.	92.	.228	.924	.0033
1000.	115.	.252	.916	.0042
1125.	140.	.275	.908	.0052
1250.	167.	.296	.901	.0062
1500.	224.	.336	.888	.0084
1050.	117.	.244	.919	.0043
1200.	147.	.269	.910	.0054
1350.	178.	.293	.902	.0066
1500.	211.	.315	.895	.0079
1800.	282.	.356	.881	.0107
1400.	173.	.272	.909	.0063
1600.	215.	.299	.900	.0080
1800.	260.	.324	.892	.0097
2000.	308.	.348	.884	.0116
2400.	407.	.390	.870	.0156
1750.	231.	.293	.902	.0085
2000.	287.	.321	.893	.0107
2250.	346.	.347	.884	.0130
2500.	407.	.372	.876	.0155
3000.	537.	.415	.862	.0208

f_c	K	k	j	p
	f_s = 33,000		a = 2.48	
875.	86.	.211	.930	.0028
1000.	108.	.234	.922	.0036
1125.	132.	.256	.915	.0044
1250.	157.	.277	.908	.0052
1500.	211.	.315	.895	.0072
1050.	110.	.226	.925	.0036
1200.	138.	.251	.916	.0046
1350.	168.	.273	.909	.0056
1500.	199.	.295	.902	.0067
1800.	267.	.334	.889	.0091
1400.	162.	.253	.916	.0054
1600.	203.	.279	.907	.0068
1800.	246.	.304	.899	.0083
2000.	291.	.327	.891	.0099
2400.	387.	.368	.877	.0134
1750.	218.	.274	.909	.0073
2000.	271.	.301	.900	.0091
2250.	327.	.326	.891	.0111
2500.	386.	.350	.883	.0132
3000.	511.	.392	.869	.0178

*"Balanced steel ratio" applies to problems involving bending only.

URS

Job: White Tanks | Project No. 23443748.00312 | Page ___ of ___ | Sheet ___ of ___

Description: Principal Spillway Riser | Computed by: HKB | Date: 8-24-04

Checked by: SSD | Date: 8/25/04

Reference

check shear at support

$R = \frac{5.75}{2}(225) = 647$ lb

$d = 7.5''$

$v = \frac{R}{bd} = \frac{647}{12(7.5'')}$

$v = 7.2$ psi

allowable = 70 psi

70 psi > 7.2 psi

shear O.K.

CALCULATION PACKAGE NO. H-5

EXHIBIT 4.7-2

CALCULATION COVER SHEET

Client: Flood Control District of Maricopa County

Project Name: White Tanks

Project/Calculation Number: 23443748.00312

Title: Principal Spillway Structure Trashrack Design

Total Number of Pages (including cover sheet): 4

Total Number of Computer Runs: NA

Prepared By: Harold Blair **Date:** 7/28/2004

Checked By: Steve Dominic SJD **Date:** 8/20/2004

Description and Purpose

Design structural steel members for the trashrack and verify open area configuration against maximum allowable flow velocities.

Design Basis/References/Assumptions

Working stress design utilized for determining channel section for trashrack members. Flow rate through trashrack of 250 cfs provided by URS Phoenix design team.

Remarks/Conclusions/Results

C10X25 channel utilized for trashrack bars. Peak velocities through bars computed as 2.13 fps less than 2.5 fps allowable velocity.

Calculation Approved By: _____

Project Manager/Date

Revision No.:	Revision Description:	Approved By:

Project Manager/Date

URS

Job: White Tanks | Project No. | Page 1 of
Description: Principal Spwy Trashrack | Computed by: HKB | Sheet of
Checked by: SJD | Date: 08/20/04 | Reference

Compute size for trash rack members

Reference:

- AISC Steel Construction Manual

Assumptions:

- Beams are simply supported
- lateral load is 100 lb/ft² — consistent with slab live load ok
  check with 1000 lb point load
- Assume length of simple support is 5.75 + .833 = 6.58 ft

Assume for starter a C10X25 ?

$b_f = 2\frac{7}{8}$ $d = 10''$ $S_y = 1.48 \text{ in}^3$

allowable = 20,000 psi

$$M = \frac{wl^2}{8}$$

$$= \frac{100(6.58^2)}{8} = 541.2 \text{ ft-lb}$$

$$\sigma = \frac{M}{S} = \frac{541.2(12)}{1.48} = 4388 \text{ psi}$$

Check 1000 lb point load

$$M = \frac{1000(6.58)}{4} = 1645 \text{ ft-lb}$$

$$\sigma = \frac{M}{S} = \frac{1645(12)}{1.48} = 13{,}338 \text{ psi}$$

allowable is 20,000 psi

So C10X25 is O.K.

URS

Job	White Tanks	Project No.		Page 2 of	
Description	Principal Spwy Trashrack	Computed by	HKB	Sheet	of
		Checked by	SJD	Date	7-28-04
				Date	8/20/04
				Reference	

Based on the use of the C10x25 channel the openings for the trashracks can be reduced in size from the openings on the standard NRCS drawing. The change in height of the openings will allow some adjustment in the height of the walls supporting the trash racks. The distance between the openings will be maintained.

The openings can be 11" high and 4" wide, to accommodate the C10x25 channel. The bottom of the top slab can be lowered 4". This allows 1'-1" between the highest trash rack block out and the bottom of the slab. The bottom of the slab will be at El 1203.83 3'-10" above the crest

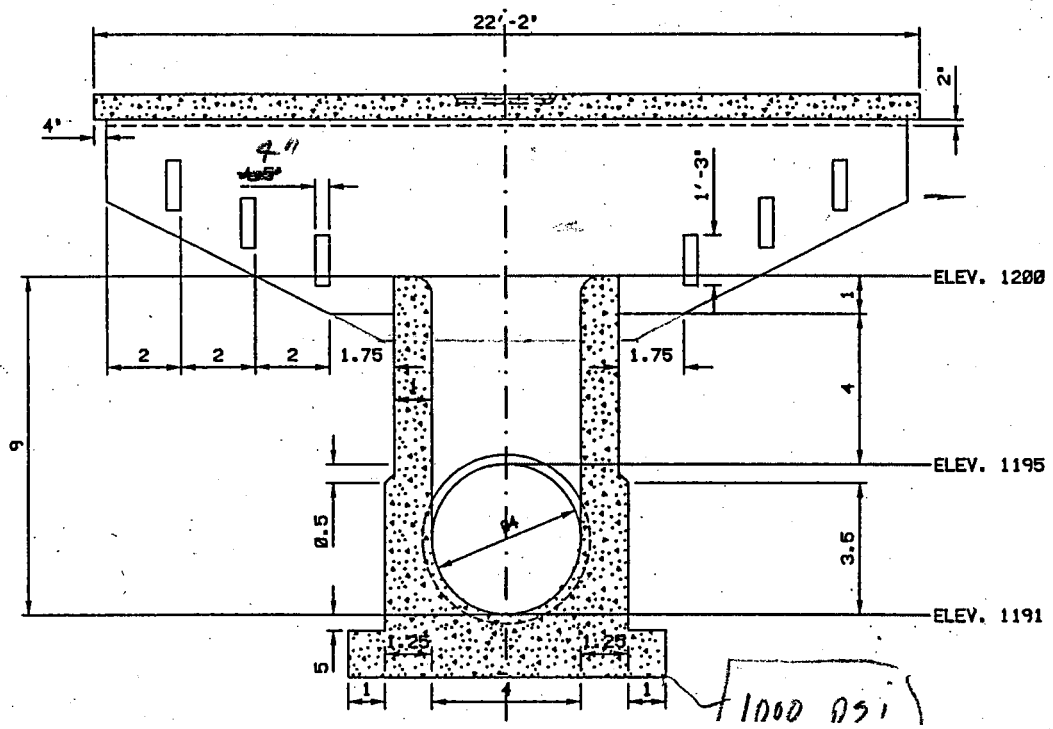
URS

Job: White Tanks
Description: Principal Spwy trashrack

Project No.
Computed by
Checked by: SJD

Page ____ of ____
Sheet ____ of ____
Date
Date: 8/20/04
Reference

Compute velocity through trash rack for 250 cfs ← Based on? Provided by Phoenix VRS ∴ ok SJD



The width between the 3 trashrack walls is 5'-9" ✓

width between trashrack openings is:

$(4'\text{-}9'' - .833) + 1.75 = 4.92'$ ✓ ok SJD.

3.167

Total clear opening $= 4.92(5.95)4$
$= 117.1\ ft^2$

Velocity $= \dfrac{250\ (ft^3/s)}{117.1\ ft^2} = 2.13\ ft/sec.$ ✓

This is O.K allowable is 2.5 ft/sec

CALCULATION PACKAGE NO. H-6

EXHIBIT 4.7-2

CALCULATION COVER SHEET

Client: Flood Control District of Maricopa County

Project Name: White Tanks

Project/Calculation Number: 23443748.00312

Title: Principal Spillway Structure Footing Strength Design

Total Number of Pages (including cover sheet): 35

Total Number of Computer Runs: NA

Prepared By: Harold Blair **Date:** 7/28/2004

Checked By: Steve Dominic S.J.D. **Date:** 8/20/2004

Description and Purpose

Determine strength requirements for the principal spillway footing.

Design Basis/References/Assumptions

Working stress design utilized for determining reinforcement requirements consistent with approach presented in NRCS Engineering Handbook, Section 6.

Remarks/Conclusions/Results

Review included the following recommendations:

1. Add shear check calculation or state okay by inspection for completeness of calculations. completed - okay S.D.

Design results in #8 bars @ 12" O.C. EW, EF

Calculation Approved By: Todd Ringsmuth 9/9/04

Project Manager/Date

Revision No.:	Revision Description:	Approved By:

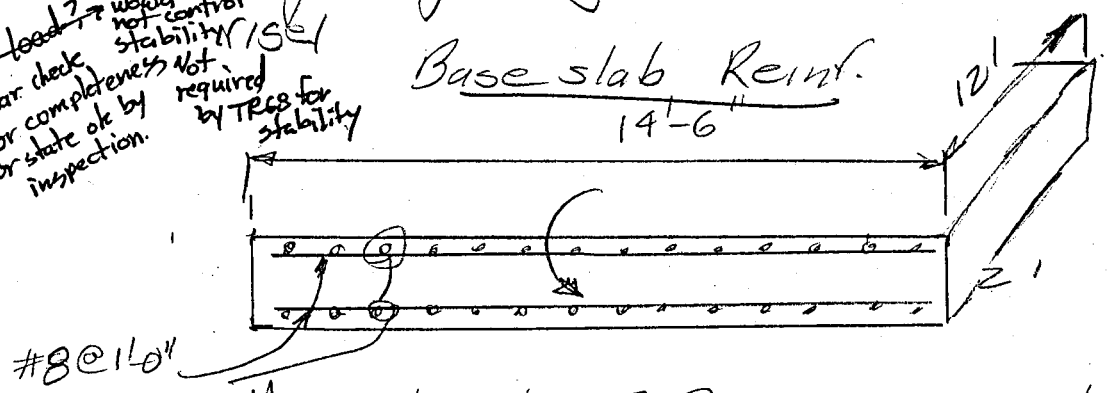
Project Manager/Date

URS

Job: White Tanks | Project No. | Page ___ of ___
Description: Principal Spillway | Computed by: HKB | Date: 7-27-04 | Sheet ___ of ___
Checked by: SJD | Date: 8/20/04 | Reference

① ~~Sill load?~~ → would not control stability 1/SJ
② shear check for completeness or state ok by inspection. Not required by TRCB for stability

Base slab Reinf.



Mom due to E.Q. is assumed to act on x-sect of base slab

$M = 318{,}846$ ft-lb from Page 7 Comps by HKB 8-1-04

M/f: $\frac{318{,}846}{14.5} = 21{,}989$ ft-lb

$A_s = \frac{M}{f_s j d}$ $f_s = 20{,}000$, $j = .870$, $d = 21''$

$= \frac{21{,}989(12)}{20{,}000(.870)21}$

$A_s = .72 \text{ in}^2$

The minimum steel according to EM 1110-2-2104 - USDA Soil Conservation Service is

$A_s = P_t b t$ $P_t = .002$, $b = 12''$, $t = 18''$ this is maximum thickness assumed to apply in this case.

$= .002(12)18$

$= .43 \text{ in}^2$

0.72 controls

∴ for the base slab use #8 @ 12" in both directions for the top + bottom layers of reinf.

per USBR - influence zone for t ≤ 5 steel ok S.J.D.

NEH-6

ENGINEERING HANDBOOK

structural design

section 6

U.S. DEPARTMENT OF AGRICULTURE

SOIL CONSERVATION SERVICE

4.2 Design Codes and Criteria:

4.2.1 General Code to be Used. The American Concrete Institute Standard "Building Code Requirements for Reinforced Concrete" (ACI 318-77), Appendix B - Alternate Design Method is used as the design code for working stress design except as modified in 4.2.2.

4.2.2 Other Design Criteria

(a) The allowable extreme fiber unit stress in compression in flexural members is: $f_c = 0.40\ f'_c$.

(b) The allowable tensile unit stress in reinforcement is: $f_s = 20000$ psi. The design yield strength is: $f_y = 40000$ psi.

(c) Members subjected to bending and direct compressive force, in which the eccentricity (e = M/N) is not less than that causing balanced working stresses, are designed on the basis of recognized theory of cracked sections. The tensile steel may be stressed to its allowable, and the concrete stress may not exceed its allowable value.

(d) In doubly reinforced flexural members, the modular ratio, E_s/E_c is used to transform compression reinforcement for stress computations.

(e) The minimum clear concrete cover over reinforcement is two inches, except when concrete is deposited on or against earth, the minimum clear concrete cover is three inches. However, in structural design slabs or beams without web reinforcement, the distance from the surface of concrete to the centerline of the nearest reinforcing steel may be taken as 2-1/2 or 3-1/2 inches, as the case may be, to simplify the determination of effective depth, for all bars one inch or less in diameter.

Consideration should be given to increasing the cover when a concrete surface is exposed to high velocities and the water carries abrasive material.

(f) Reinforcing steel is required in both faces in both (orthogonal) directions in all concrete slabs and walls, except that one grid of reinforcing is required in concrete linings of trapezoidal canals. This steel serves either as principal reinforcement or as temperature and shrinkage reinforcement. The minimum steel areas for slabs and walls having thickness equal to or less than 32 inches, in each face and in each direction, shall be as the ratio, ρ_t, of reinforcement area, A_s, to gross concrete area, as follows:

1. The steel in the direction in which the distance between expansion or contraction joints does not exceed thirty feet,

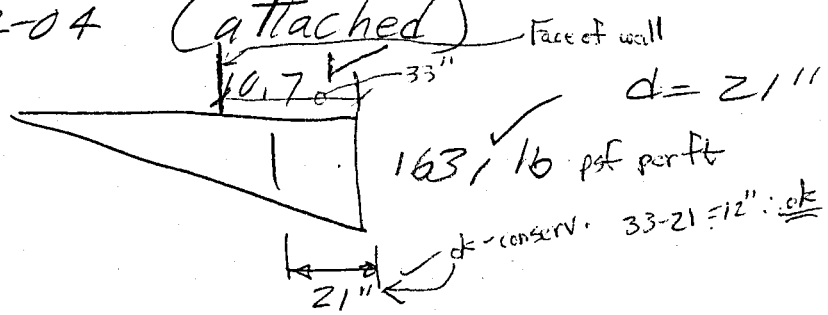
   $\rho_t = 0.002$ in an exposed face

   $\rho_t = 0.001$ in an unexposed face

URS

Job: White Tanks | Project No. | Page ___ of ___
Description: Principal Spillway Riser | Computed by | Sheet ___ of ___
Checked by: SJD | Date | Date: 8/25/04
Reference

Compute shear in base slab
use shear at d- distance
from calcs by HKB dated
8-2-04 (attached)



$$\text{Shear d-dist} = \frac{S}{8.25} = \frac{1631\ lb}{10.7}$$

$$S = 1364\ lb \cdot ft^2 \text{ per ft}$$

$$\therefore V = \frac{S}{bd} = \frac{1364}{12(21)} \quad \left(\frac{1364 + 1631}{2}\right)\left(\frac{1.75}{12}\right) = 2{,}621$$

$$V = 5.4\ psi$$

$$All = 70\ psi$$

$$70\ psi > 5.4\ psi$$

Shear is O.K.

CALCULATION PACKAGE NO. H-7

EXHIBIT 4.7-2

CALCULATION COVER SHEET

Client: Flood Control District of Maricopa County

Project Name: White Tanks

Project/Calculation Number: 23443748.00312

Title: Impact Basin—Hydraulic Design

Total Number of Pages (including cover sheet): 19

Total Number of Computer Runs: NA

Prepared By: Michael Johnson **Date:** 7/25/2004

Checked By: Harold Blair **Date:** 8/13/2004

Description and Purpose

Determine the size of the impact basin based on hydraulic requirements.

Design Basis/References/Assumptions

The impact basin hydraulic sizing is based on requirements of NRCS Technical Release No. 49.

Remarks/Conclusions/Results

- The basin is adequate to handle the design flows of 250 cfs
- Sheets by HKB are enclosed as an independent check on the elements of the impact basin.
- Please note the following related to the attached reference—The quantities of steel and concrete shown do not apply. A cover between the pipe outlet and baffle is not provided as required in the statement, paragraph 5, page 3, TR 49. Wing walls are not included on the basin as shown on NRCS standard dwg., ES-187. Drains should be placed in the walls of the impact basin.

Calculation Approved By: Todd Ringsmuth 9/9/04

Project Manager/Date

Revision No.:	Revision Description:	Approved By:

Project Manager/Date

URS

Page 1 of ____

Job White tenks FRS#3 | Project No. 23443798 | Sheet ____ of ____

Description Outlet works Pipe. | Computed by M. Johnson | Date 7/25/04

Checked by HKB | Date 8/13/04

Reference

IMPACT BASIN SIZING CALC

Reference: USDA Technical Release No. 49
Criteria for the hydraulic design of Impact Basins
Associated w/ full flow in pipe conduits

PAGE 7 – Variable definitions

Page 11 – Rip-Rap required on channel bottom for a distance of one basin width downstream from end sill.... etc. see drawing ES-189 ⇒ y

Given(s)

D = pipe dia. 4' = 48"
Q = 250 cfs – confirm with Hammad.
y = Vertical distance from top of end sill to Rip RAP (6")

Determine

I. BASIN WIDTH
II. RIPRAP MINIMUM SIZE (LARGE 8-12" angular on site)

I. BASIN WIDTH (see graph/table. ES-188)
From ES-188
D = 4ft & Q = 250cfs W = 14.5ft round to next ½ft = W = 15ft

II. Rip-Rap.

$$\frac{Q}{D^{5/2}} = \frac{250\,cfs}{(4.0)^{5/2}} = \frac{250}{32} = 7.8125''$$

$$\frac{y}{D} = \frac{0.5}{4} = .125 \text{ or } \frac{y}{D} = 0$$

USING ES189. READ 7.8125 & .125 ⇒ C = 4.2 (APROX.)
S ⇒ 16 inches

URS

Page ____ of ____

Job ____ Project No. ____ Sheet ____ of ____

Description ____ Computed by ____ Date ____

Checked by HKB Date 8-13-04

Reference

or C = 3, D = 4.0, then S => 9"

$S_{avg} = \left(\frac{16+9}{2}\right) = 12.5''$

Rip-Rap sizing to be confirmed based on H&H.

⟹ DRAWING ES-187

Symbols

W = Basin Width - controled by Dia. Pipe & Q-flow. = 15ft
L = Basin Length - 4/3W = 20ft
H = Basin depth - 3/4W = 11.25ft
d = Height of endsill and height of pipe inlet above apron slab.
↳ d = 1/6 W = 2.5ft

f = Height of baffle wall = 3/8 W = 5.5/8ft or 5'-7½"

a = distance to upstream face of baffle wall = ½W = 7.5ft

c = Height of sidewall & wingwall @ junction = ½W = 7.5ft

e = width of splash brim - 1/12 W = 1.25ft (thickness = 8" min.?)

wingwall slope ≤ 3:1

⟹ Our outlet works will have "2" Two 4' DIA. PIPES
IDENTICAL IMPACT BASINS WILL BE USED IN conjunction
with center wingwall Removed / deleted. center wall width = 1ft
see attached drawing detail

PER ES-186 standard detail drawing ES-4150
ES-4WWW = WWW = WIDTH OF BASIN 15.0
Approx. concrete and steel. 110 cy. & 15,000 lbs.

U. S. Department of Agriculture
Soil Conservation Service
Engineering Division

Technical Release No. 49
Design Unit
March 29, 1971

CRITERIA FOR THE HYDRAULIC DESIGN OF IMPACT BASINS ASSOCIATED WITH FULL FLOW IN PIPE CONDUITS

PREFACE

This technical release presents the recommendations on impact basins taken from the Bureau of Reclamation publication Hyd-572 - "Progress Report No. XIII - Research Study on Stilling Basins, Energy Dissipators, and Associated Appurtenances - Section 14, Modification of Section 6 (Stilling Basin for Pipe or Open Channel Outlets - Basin VI)"- dated June, 1969, by G. L. Beichley. These recommendations are presented here as criteria for impact basins associated with full pipe flow and pipe diameters from 1.5 to 5.5 feet, inclusive.

Using the ES-drawings included in this technical release, the proportioning of the impact basin and the riprap size may be obtained.

This technical release was prepared by John A. Brevard of the Design Unit, Design Branch at Hyattsville, Maryland.

TECHNICAL RELEASE
NUMBER 49

CRITERIA FOR THE HYDRAULIC DESIGN OF IMPACT BASINS ASSOCIATED WITH FULL FLOW IN PIPE CONDUITS

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PREFACE
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Introduction 1
Pipe Flow Velocity 2
Design Discharge 2
Basin Width 2
Pipe Slope 2
Riprap 3
Tailwater 3
Debris Protection 3
General Layout 3
Example I 5
Example II 5

Engineering Standard Drawings

Drawing No.	Title
ES-186	STANDARD PLANS: Standard Impact Basins Schedule Showing Drawing Numbers, Volumes of Concrete, and Weights of Steel
ES-187	IMPACT BASINS: General Layout and Hydraulic Design
ES-188	IMPACT BASINS: Recommended Basin Widths for Various Pipe Diameters and Design Discharges
ES-189	IMPACT BASINS: Recommended Riprap Sizes

NOMENCLATURE

A ≡ cross-sectional area of pipe, ft^2

$C = \frac{v_1}{D^{1/2}}$

D ≡ pipe diameter, ft

F ≡ Froude number $= \frac{v}{(g\sqrt{A})^{1/2}}$

g ≡ acceleration of gravity, ft/sec^2

Q ≡ design discharge, cfs

S ≡ minimum recommended D_{50} riprap size, inches

v ≡ pipe flow velocity, ft/sec

v_1 ≡ flow velocity over the end sill, ft/sec

W ≡ basin width, ft

y ≡ vertical distance from top of end sill to top of riprap in channel bottom at end sill, ft

NOTE: See ES-187 for additional symbols and the terminology associated with various components of the impact basin.

TECHNICAL RELEASE
NUMBER 49

CRITERIA FOR THE HYDRAULIC DESIGN OF IMPACT BASINS ASSOCIATED WITH FULL FLOW IN PIPE CONDUITS

Introduction

The Bureau of Reclamation has published three reports containing information on the hydraulic design of impact basins. The first was Hyd-399- "Progress Report No. II - Research Study on Stilling Basins, Energy Dissipators, and Associated Appurtenances" - dated June 1, 1955, by J. N. Bradley and A. J. Peterka. The second was Engineering Monograph No. 25 - "Hydraulic Design of Stilling Basins and Energy Dissipators" - dated September, 1958, by A. J. Peterka. This report was revised in July, 1963.

At the meeting of the SCS Committee for Standardization of Impact Basins in Denver, Colorado on March 7-9, 1966, the decision was made to accept the impact basin recommendations of Engineering Monograph No. 25 as the basis for formulating criteria for the hydraulic design of the Standard Impact Basins. The Standard Impact Basins were designed in accordance with this criteria.

The third Bureau of Reclamation publication concerning this subject is Hyd-572 - "Progress Report No. XIII - Research Study on Stilling Basins, Energy Dissipators, and Associated Appurtenances - Section 14, Modification of Section 6 (Stilling Basin for Pipe or Open Channel Outlets - Basin VI)" - dated June, 1969, by G. L. Beichley. This report gives the results of model studies of impact basins and recommendations for the hydraulic design of such basins. The study was deemed advisable because the operation of various prototype structures revealed a need for revision of the design standards of Engineering Monograph No. 25.

The recommendations in Hyd-572 differ somewhat from those given in Engineering Monograph No. 25; therefore, the layout for the SCS Standard Impact Basins does not agree completely with the latest recommended general layout as shown in ES-187. These differences are discussed below under General Layout.

The following are recommendations taken from Report No. Hyd-572. These recommendations are presented in this technical release as criteria for the hydraulic design of impact basins. The criteria given below is for impact basins associated with full pipe flow and pipe diameters from 1.5 to 5.5 feet, inclusive.

Pipe Flow Velocity

The maximum pipe flow velocity, v, is 50 ft/sec. This limitation is imposed, because cavitation or impact damage to the basin may occur if this velocity is exceeded.

Design Discharge

The design discharge used in selecting the impact basin width is determined using the minimum entrance loss coefficient for the inlet structure to the pipe. Use of the minimum entrance loss coefficient results in the highest discharges for the site conditions. The design discharge is the maximum discharge through the structure for the routing of the principal spillway hydrograph.

The maximum hydraulic grade line in the basin is assumed at d + f + t (see ES-187) above the basin apron. When determining the head for pipe flow computations, consideration of the location of the hydraulic grade line in the basin is necessary.

Basin Width

The minimum impact basin width, W, is 8/3 of the pipe diameter, D. If W were made less than 8 D/3, a portion of the flow jet for the design discharge would miss the baffle (see ES-187).

Drawing ES-188 which gives the relation of basin width, W, design discharge, Q, and pipe diameter, D, may be used to obtain the required basin width. This drawing is based on Figure 8 of Report No. Hyd-572. The equation of the line of Figure 8 was taken as

$$\frac{W}{\sqrt{A}} = 2.86F^{0.575}$$

where

$A \equiv$ Cross-sectional area of the pipe $= \frac{\pi D^2}{4}$, ft^2

$D =$ Pipe diameter, ft

$F \equiv$ Froude number $= \frac{v}{(g\sqrt{A})^{1/2}}$

$g \equiv$ Acceleration of gravity $= 32.16$ ft/sec^2

For particular values of D and Q, the proper basin width is that found from ES-188. When the point determined by the pipe diameter, D, and the design discharge, Q, lies between two Standard Impact Basin widths, select the larger basin width. If the basin is too large, the basin's effectiveness is reduced due to the jet passing under the baffle. Report No. Hyd-572 notes that "Since the basin will be larger than need be for less than design flows, the basin should not be oversized for the design flow."

Pipe Slope

A horizontal length of pipe at least one pipe diameter long is required at the entrance to the basin. If the grade of the pipe near the basin exceeds 15 percent, the horizontal length must extend upstream from the basin at least three diameters. The horizontal length of pipe ensures that the jet for the design discharge fully impinges on the baffle.

Riprap

Riprap is required on the channel bottom and side slopes for a distance of one basin width downstream from the end sill. The riprap on the side slopes of the channel must extend to the elevation of the top of the basin walls at the end sill. The minimum thickness of placed riprap is 1/6 of the basin width. A blanket of filter material or bedding, as required, is necessary beneath the rock riprap.

Drawing ES-189 is included to facilitate the determination of the required riprap size. At least half of the riprap by weight must equal or exceed the required riprap size.

Tailwater

Tailwater is not required; however, tailwater depths up to a maximum depth of d + f/2 (see ES-187) above the basin apron do reduce water surface roughness and bed erosion. Depths of tailwater greater than d + f/2 above the basin apron should be avoided since these depths cause flow over the top of the baffle.

Debris Protection

Report No. Hyd-572 states that "At some prototype installations, weeds and debris such as Russian thistles have been trapped in the basin between the pipe portal and the baffle. This debris has compacted to the extent of blocking the portal, thus reducing the capacity of the structure. The compacted weeds will not wash out and are very difficult to remove." Obviously, debris which is long and relatively rigid could also become lodged in the impact basin. Therefore, a Standard Covered Riser or an inlet which is equally effective in preventing entrance of debris is required when using an impact basin. Thus, an open top riser is not satisfactory in association with an impact basin.

For safety purposes and to prevent debris from entering the impact basin upstream of the baffle, a cover is required over the top of the basin between the pipe outlet and the baffle. The cover might be floor grating or precast concrete slabs placed with space between slabs to provide adequate basin ventilation. Secure fastening of the cover to the basin is necessary.

General Layout

Drawing ES-187 shows the general layout of the impact basin as given in Figure 1 of Report No. Hyd-572. As mentioned previously, this layout differs somewhat from that used for the design of the Standard Impact Basins, ES-4000 series. These differences are:

1. The notches in the baffle are reduced in width and are moved a short distance from the sidewall to improve the flow conditions in the basin.
2. The height of the basin sidewall is increased to provide additional freeboard.
3. The distance, a, from the headwall to the baffle wall is W/2.

When a Standard Impact Basin is desired, the user has the option of using the drawings without change or of revising the drawings to conform with the general layout as given in ES-187. When an impact basin is desired which is not one of the Standard Impact Basins, the layout should conform to that of ES-187.

EXAMPLE I

Given:

$D = 3.0$ ft
$Q = 150$ cfs
$y = 0.6$ ft

Determine:

I. The impact basin width.
II. The recommended riprap size.

Solution:

I. Determine the impact basin width.
Using ES-188 and for $D = 3.0$ ft and $Q = 150$ cfs, read $W = 12.25$ ft. Use a Standard Impact Basin with $W = 13.0$ ft.

II. Determine the recommended riprap size.

A. Compute

$$\frac{Q}{D^{5/2}} = \frac{150}{(3.0)^{5/2}} = \frac{150}{15.588} = 9.623$$

$$\frac{y}{D} = \frac{0.6}{3.0} = 0.2$$

B. Using ES-189 and for $Q/D^{5/2} = 9.623$ and $\frac{y}{D} = 0.2$, read $C = 4.79$.
Then for $D = 3.0$ ft and $C = 4.79$, read $S = 16.0$ inches.

EXAMPLE II

Given:

$D = 4.0$ ft
$Q = 550$ cfs
$y = 0$

Determine:

I. The impact basin width.
II. The recommended riprap size.

Solution:

I. Determine the impact basin width.
Using ES-188 and for $D = 4.0$ ft and $Q = 550$ cfs, read $W = 22.85$ ft. Use $W = 23.0$ ft.

II. Determine the recommended riprap size.

A. Compute

$$\frac{Q}{D^{5/2}} = \frac{550}{(4.0)^{5/2}} = \frac{550}{32.000} = 17.19$$

$$\frac{y}{D} = \frac{0}{4.0} = 0$$

B. Using ES-189 and for $\frac{Q}{D^{5/2}} = 17.19$ and $\frac{y}{D} = 0$, read $C = 3.80$.

Then for $D = 4.0$ ft and $C = 3.80$, read $S = 13.85$ inches.
Use $S = 14.0$ inches.

STANDARD PLANS: STANDARD IMPACT BASINS
SCHEDULE SHOWING DRAWING NUMBERS, VOLUMES
OF CONCRETE, AND WEIGHTS OF STEEL.

STANDARD DETAIL DRAWINGS ES-4WWW	QUANTITIES*	
	STEEL - lbs.	CONCRETE - cu. yds.
ES-4050	1500	10
-4060	1900	12.5
-4070	2200	15
-4080	2800	20
-4090	3300	23
-4100	3900	28
-4110	4800	33
-4120	5700	38
-4130	6700	43.5
-4135	7300	46.5
-4140	7900	50.5
-4145	8800	55
-4150	10,000	58.5
-4155	10,600	62
-4160	11,000	65
-4165	12,400	70
-4170	13,300	73.5
-4175	14,100	77

Key to Drawing Numbers

The drawing numbers of the Standard Detail Drawings for Standard Impact Basins are given by:

ES-4WWW

where

WWW ≡ width of basin, WW.W ft

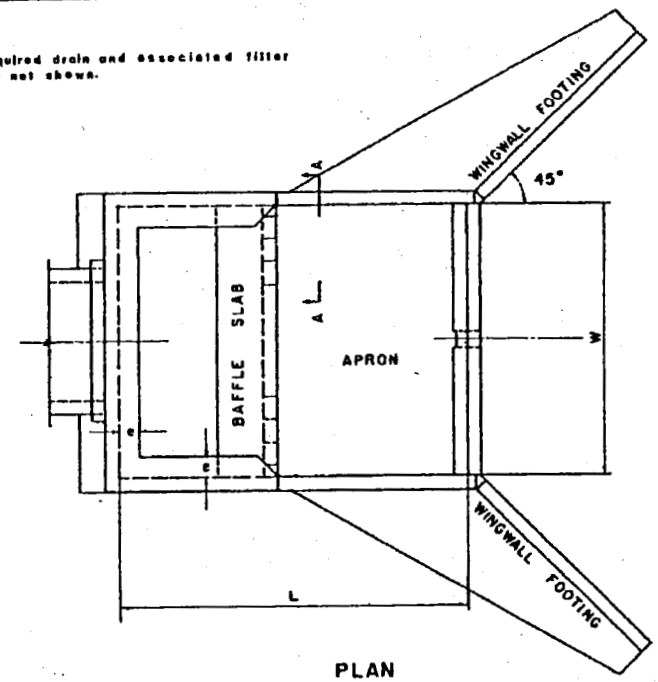
*Quantities of steel and concrete tabulated were obtained from sheet 1 of each ES-drawing. These quantities are approximate since quantities vary with pipe diameter.

REFERENCE	U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE ENGINEERING DIVISION · DESIGN UNIT	STANDARD DWG. NO. ES- 186 SHEET 1 OF 1 DATE 5 – 70

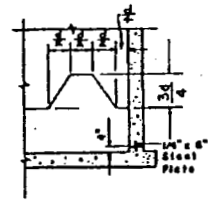
USDA-SCS-HYATTSVILLE, MD. 1971

IMPACT BASINS: General Layout and Hydraulic Design

Required drain and associated filter are not shown.



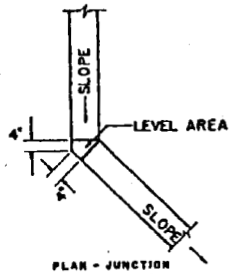
PLAN



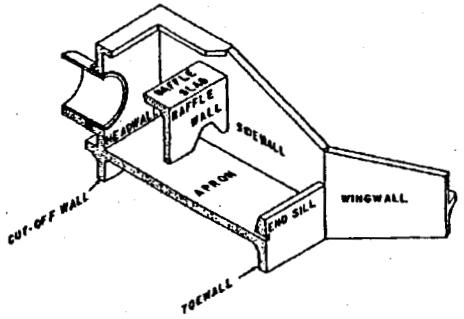
SECTION "A-A"

SYMBOLS

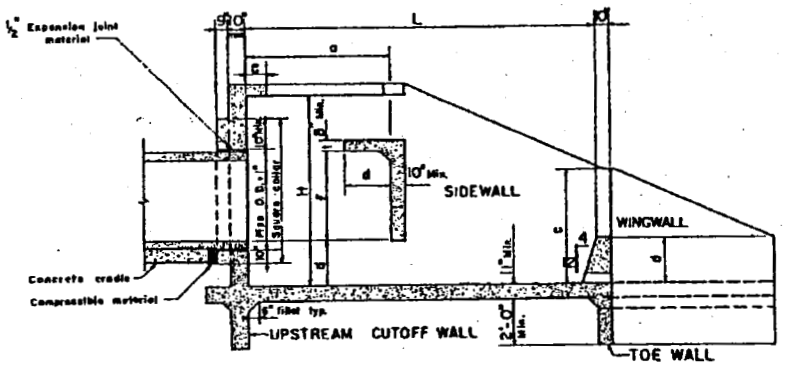
W	=	Width of basin	
L	=	Length of basin	= 4/3 W
H	=	Depth of basin	= 3/4 W
d	=	Height of end sill and height of pipe lowest above apron slab	= 1/6 W
f	=	Height of baffle wall	= 3/8 W
p	=	Clearance to upstream face of baffle wall	= 1/2 W
c	=	Height of sidewall and wingwall at junction	= 1/2 W
e	=	Width of splash brim	= 1/12 W



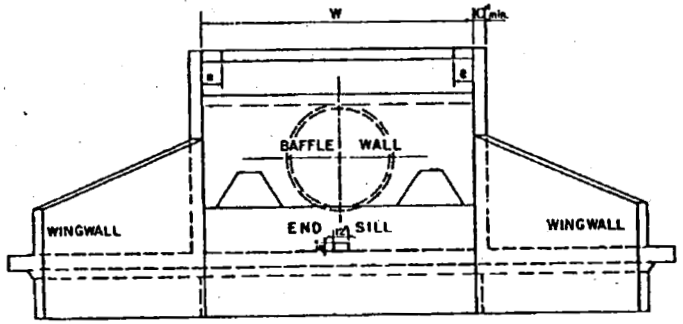
PLAN - JUNCTION SIDEWALL AND WINGWALL



ISOMETRIC VIEW



SECTION ON CENTER LINE



DOWNSTREAM ELEVATION

REFERENCE

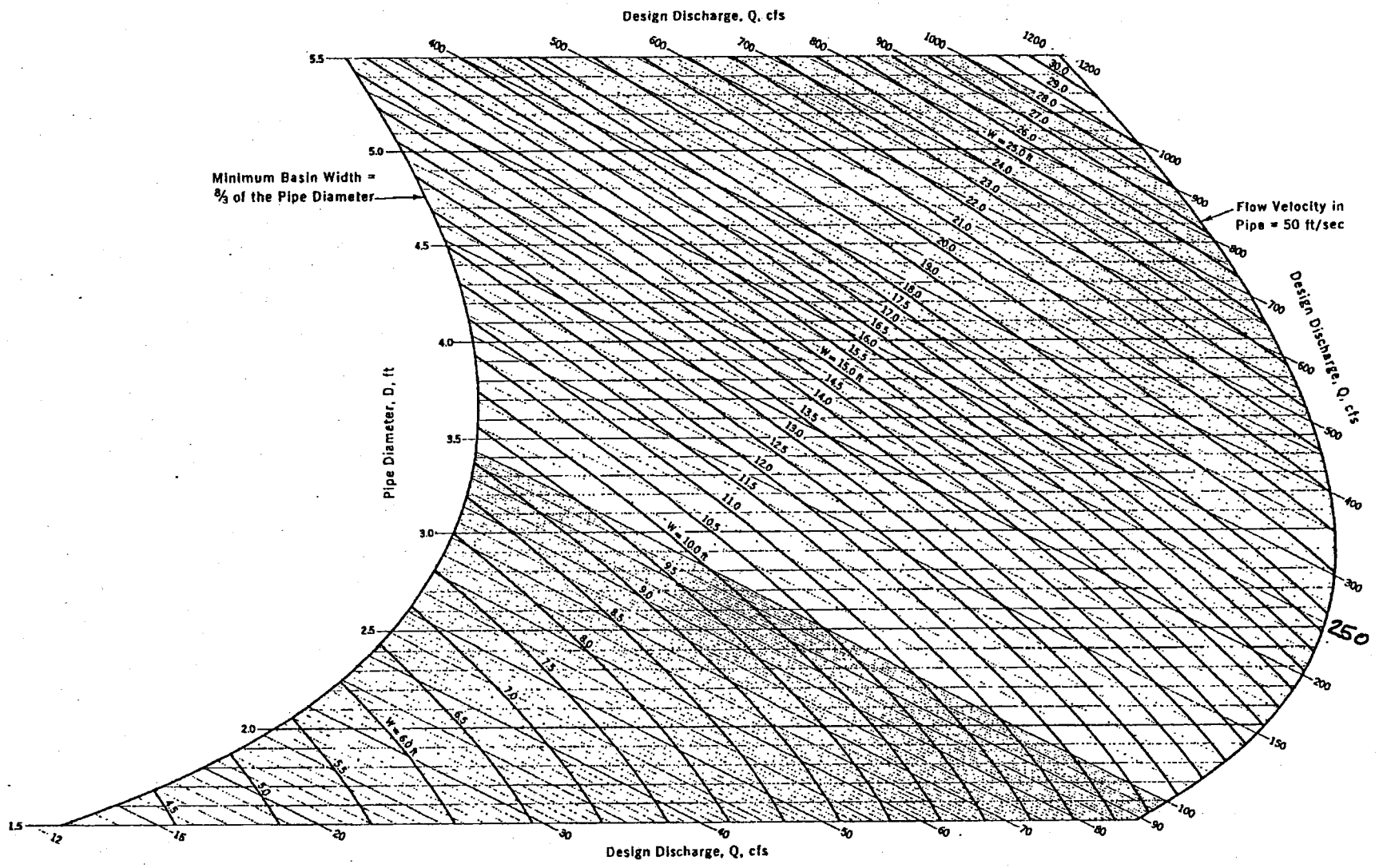
Bureau of Reclamation, Report No. HYD-572, Progress Report No. XIII--Research Study on Stilling Basins, Energy Dissipaters, and Associated Appurtenances--Section 14, Modification of Section 6 (Stilling Basin for Pipe or Open Channel Outlets--Basin XII)

by G. L. Beichley

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
ENGINEERING DIVISION - DESIGN UNIT

STANDARD DWG. NO. ES-187
SHEET 1 OF 1
DATE 12-70

IMPACT BASINS: Recommended Basin Widths for Various Pipe Diameters and Design Discharges



REFERENCE

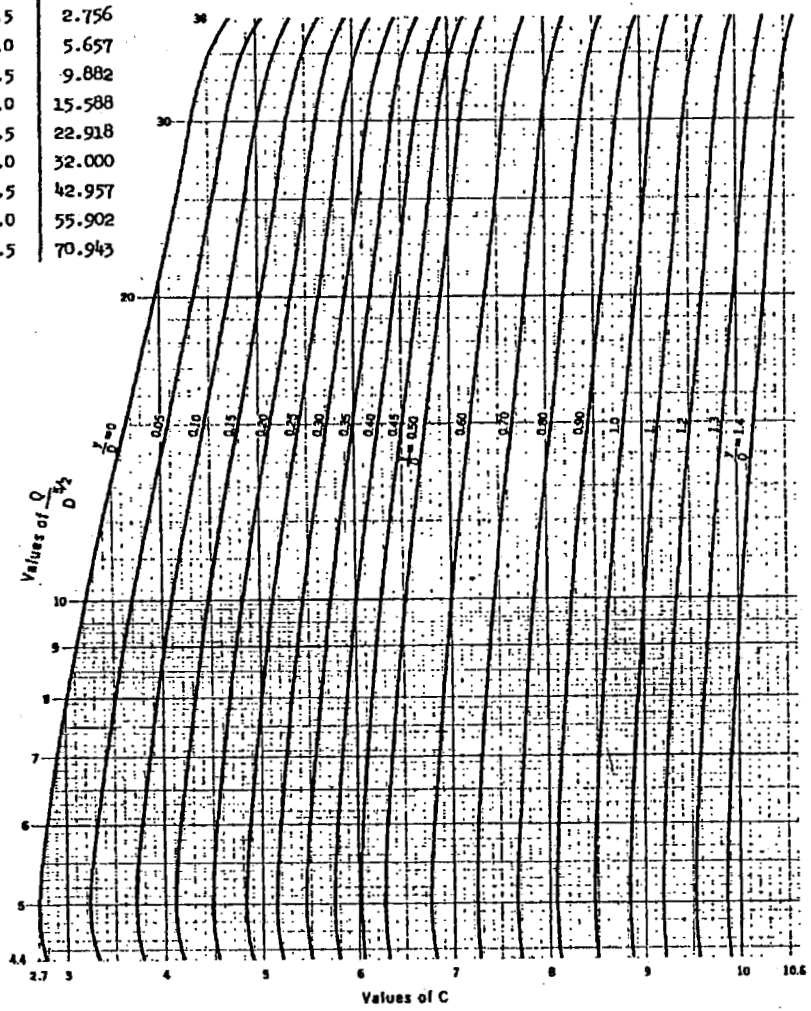
Bureau of Reclamation, Report No. HYD-572, Progress Report No. XIII--Research Study on Stilling Basins, Energy Dissipators, and Associated Appurtenances--Section 14, Modification of Section 6 (Stilling Basin for Pipe or Open Channel Outlets--Basin XI)
by G. L. Beichley

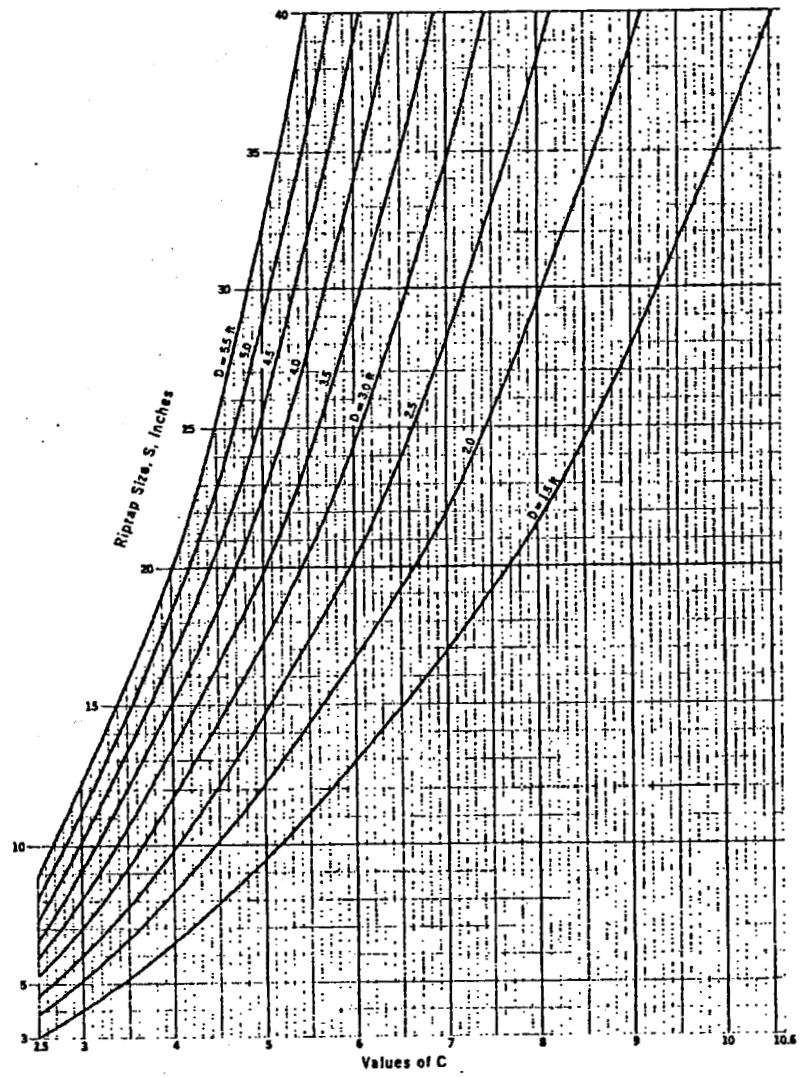
U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
ENGINEERING DIVISION - DESIGN UNIT

STANDARD DWG. NO.
ES-188
SHEET 1 OF 1
DATE 11-70

IMPACT BASINS: Recommended Riprap Sizes

D, ft	$D^{5/2}$
1.5	2.756
2.0	5.657
2.5	9.882
3.0	15.588
3.5	22.918
4.0	32.000
4.5	42.957
5.0	55.902
5.5	70.943



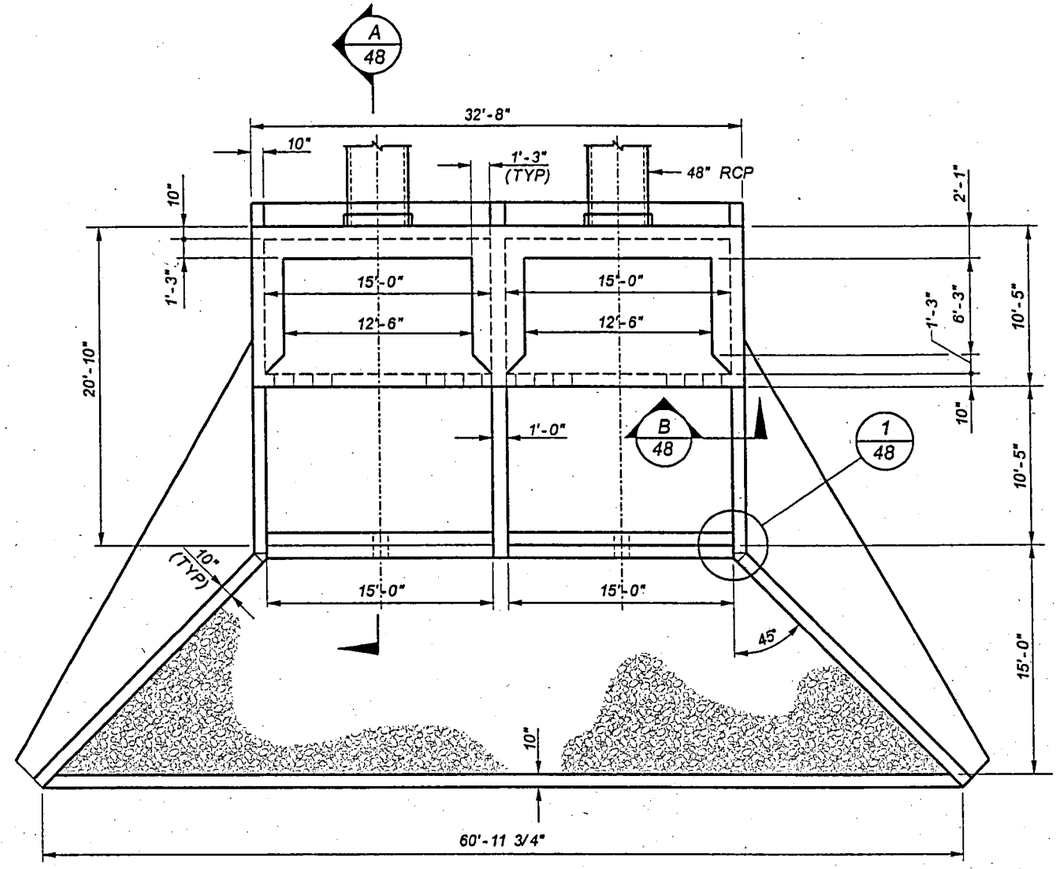


REFERENCE

Bureau of Reclamation, Report No. HYD-572, Progress Report No. XIII—Research Study on Stilling Basins, Energy Dissipators, and Associated Appurtenances—Section 14, Modification of Section 6 (Stilling Basin for Pipe or Open Channel Outlets—Basin XI) by G. L. Beichley

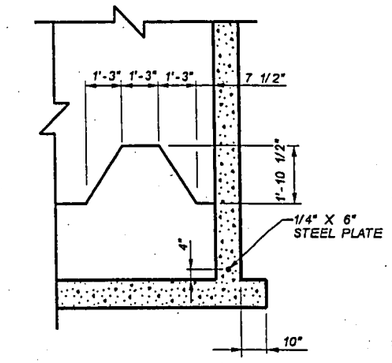
U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
ENGINEERING DIVISION - DESIGN UNIT

STANDARD DWG. NO. ES-189
SHEET 1 OF 1
DATE 11-70



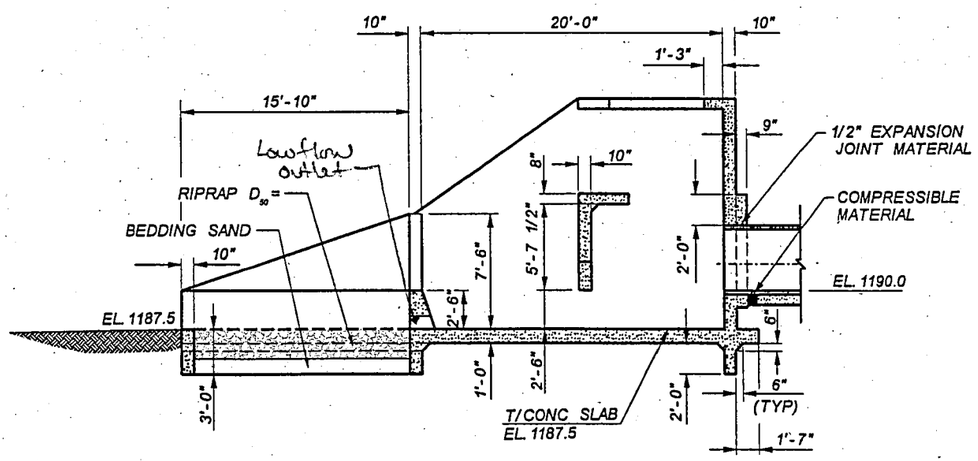
PLAN
STILLING BASIN

2.5 0 2.5 5
Scale in Feet



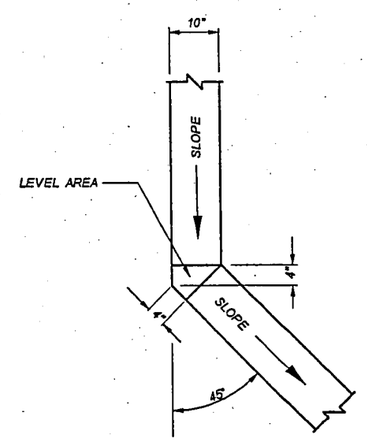
SECTION
STILLING BASIN
B
48

2.5 0 2.5 5
Scale in Feet



SECTION
STILLING BASIN
A
50

2.5 0 2.5 5
Scale in Feet



DETAIL
JUNCTION SIDEWALL AND WINGWALL
NOT TO SCALE
1
48

X520

ITEM NO.	ITEM DESCRIPTION	QUANTITY

TWO WORKING DAYS BEFORE YOU DIG, CALL
263-1100
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ADWR APPROVAL

NO.	REVISION	BY	DATE
A	60% DESIGN SUBMITTAL	TER	6-04

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

WHITE TANKS FRS NO 3
REMEDIATION DESIGN PHASE 1
PCN 470.04.30 CONTRACT NO. 2004CO17

PRELIMINARY NOT FOR CONSTRUCTION

	BY	DATE
DESIGNED	TER	6-04
DRAWN	MSJ	6-04
CHECKED	RM	6-04

URS
7720 NORTH 16TH STREET
SUITE 100
PHOENIX, AZ 85020

DRAWING NO. ~~X823~~
STILLING BASIN SECTIONS AND DETAILS
SHEET O
50 55

$FILE$
XREFS: PRIMARY OUTLET RISER.DGN, PL-FCD.DGN

URS

Job: White Tanks | Project No. | Page ___ of ___
Description: Impact Basin | Computed by: HKB | Sheet ___ of ___ | Date: 8-13-04
Checked by | Date | Reference

These comps are independent chk of M. Johnson calcs dated 7/25/04

Assume full pipe flow

$Q = 250$ cfs $\qquad A_{48} = 12.57$

$V = \frac{Q}{A} = \frac{250}{12.57} = 19.89$ fps

$D = \sqrt{A} = \sqrt{12.57}$

$D = 3.55$ ft

$F = \frac{V}{\sqrt{gD}}$

$= \frac{19.89}{\sqrt{32.2(3.55)}}$

$F = 1.86$

From fig 277 "Design of Small Dams"

$W/D = 4.2$

$W = 4.2(3.55) = 14.9$

Use $W = 15'$

$L = \frac{4}{3}(15) = 20'$

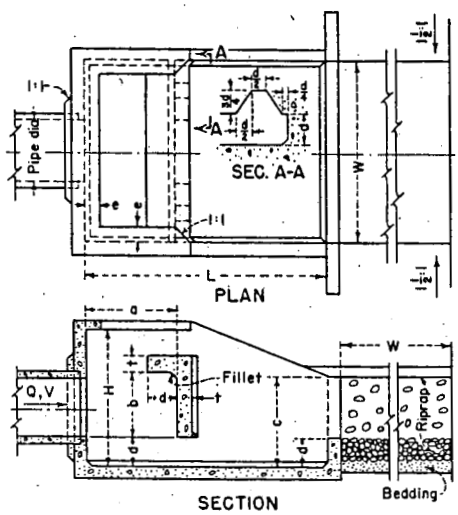
$H = \frac{3}{4}15 = 11.25'$

$d = \frac{15}{6} = 2.5'$

$f = \frac{3}{8}15 = 5.62'$

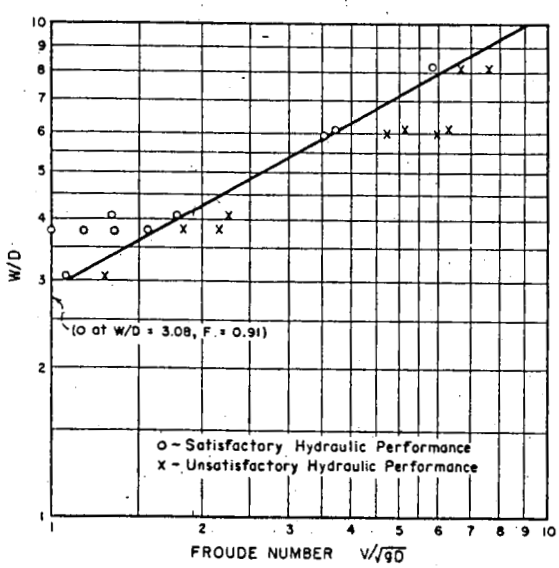
$a = \frac{15}{2} = 7.5'$

$e = \frac{15}{12} = 1.25'$



H = ¾ (W)
L = 4/3 (W)
a = ½ (W)
b = ⅜ (W)
c = ½ (W)
d = ⅛ (W)
e = 1/12 (W)
t = 1/12 (W), suggested minimum
Riprap stone size diameter = 1/20 (W).

STILLING BASIN DESIGN



DESIGN WIDTH OF BASIN

"W" is the inside width of the basin.
"D" represents the depth of flow entering the basin and is the square root of the flow area.
"V" is the velocity of the incoming flow.

Figure 277. Dimensional criteria for impact type stilling basin. 288–D–2436.

CALCULATION PACKAGE NO. H-8

EXHIBIT 4.7-2

CALCULATION COVER SHEET

Client: Flood Control District of Maricopa County

Project Name: White Tanks

Project/Calculation Number: 23443748.00312

Title: Impact Basin—Back wall Thickness and Reinf.(other walls based on this)

Total Number of Pages (including cover sheet): 15

Total Number of Computer Runs: NA

Prepared By: Harold Blair **Date:** 8/23/2004

Checked By: Steve Dominic S.A.D. **Date:** 8/26/04

Description and Purpose

Determine thickness and reinforcement for impact basin walls

Design Basis/References/Assumptions

Working stress design was utilized for determining reinforcement requirements consistent with approach presented in NRCS Engineering Handbook, Section 6.

Remarks/Conclusions/Results

1. The design results in #6 @12" vertical in each face of the back walls, and two side walls. The horizontal reinforcement was determined to be #5 @ 12" in all of the walls. This was based on NRCS temperature requirements. #5 @ 12 vertical bars were used in the middle wall. This was based on temperature requirements, since the middle wall is not significantly loaded.
2. Consideration should be given to adding drains along the outside walls of the Impact basin to mitigate potential for saturated loads outside of the basin. S.A.D.

Calculation Approved By: OK Todd Ringsmuth 9/9/04

Project Manager/Date

Revision No.:	Revision Description:	Approved By:

Project Manager/Date

URS

Job: White Tanks | Project No. | Page 1 of
Description: Impact basin | Computed by: HKB | Sheet of
Checked by: SJD | Date: 8-3-04
Date: 8/25/04
Reference

Problem: Compute thickness of outside walls

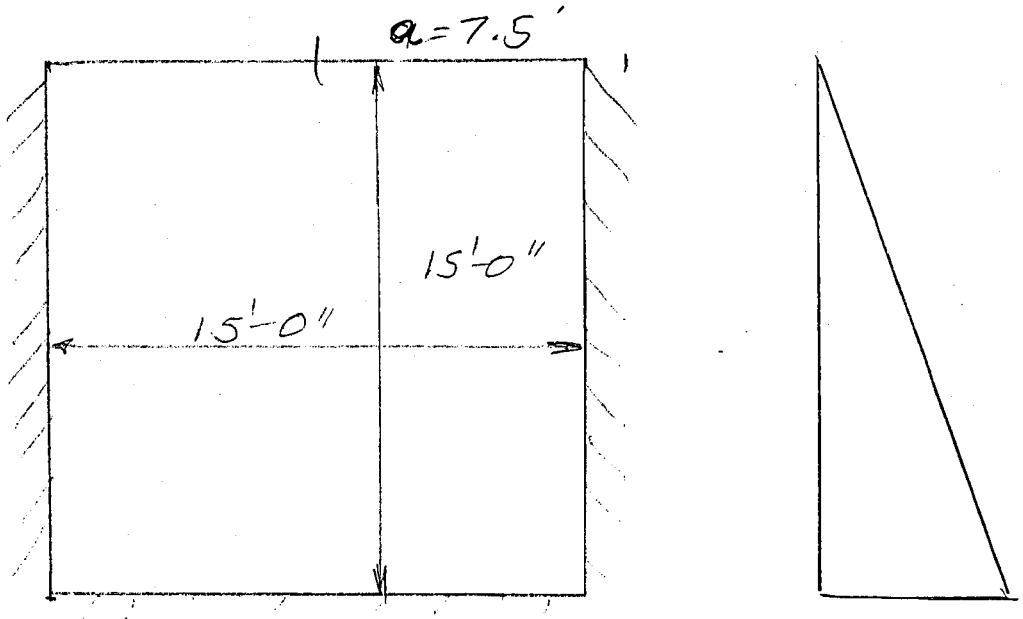
Assume walls are 1'-0" thick

Assume $\gamma_{soil} = 125$ lb/ft^3

Assume $\phi = 30°$

Analyze back wall as a plate fixed on three sides and free at the top

Sediment to top of wall (see attached Tele memo from Phoenix)



Assume active pressure on backwall along with E.Q. load

since Rectangular Plates Engr Monograph will not handle inverted triangle EQ load -- approx with uniform load

URS

Job: White Tanks | Project No. | Page 2 of
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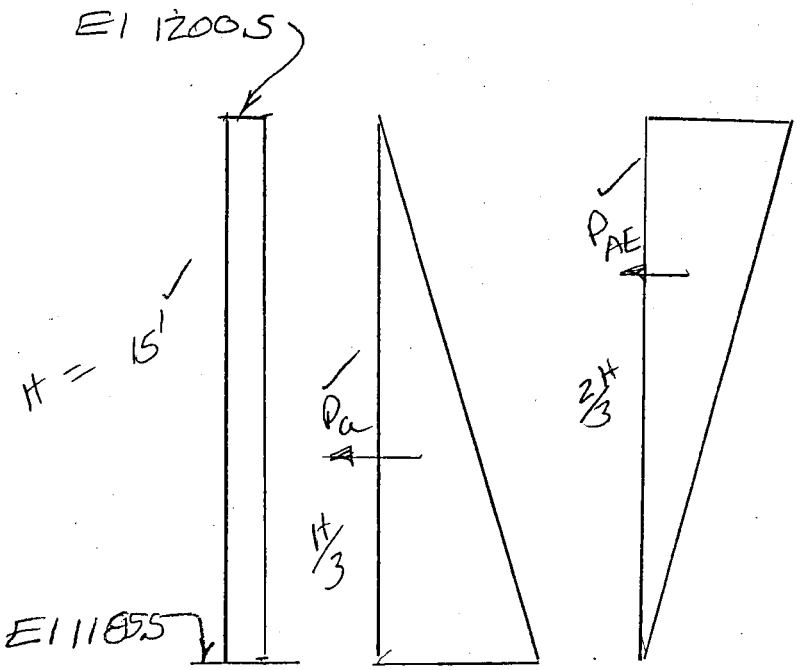
Reference



$K_a = \tan^2\left(45 - \frac{\phi}{2}\right) = .33$

ΔK_{AE} - from attached fig 5
from design criteria for concrete retaining walls

for $\alpha_h = .06$ $\psi_\beta = 0$

$\Delta K_{AE} = .032$

$P_a = \frac{\gamma H^2}{2} K_a$

$= \frac{125(.33)}{2} 15^2 = 4641 \text{ lb}$

$\Delta P_{AE} = \frac{\gamma H^2}{2} \Delta K_{AE}$

$= \frac{125(.032)}{2} 15^2 = 450 \text{ lb}$

$M = \Delta P_{AE}\left(\frac{2H}{3}\right) = 450\left(\frac{2(15)}{3}\right)$

$= 4500$

URS

Job: White Tanks | Project No. | Page 3 of ___
Description: Impact Basin | Computed by | Sheet ___ of ___
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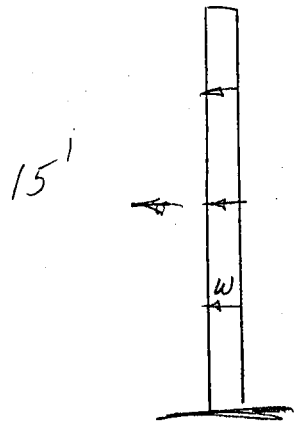


Compute uniform horizontal load for coef tables to approximate inverted triangle E.Q. load

$$M = \frac{w H^2}{2}$$

$$4500 = \frac{w(15^2)}{2}$$

$$w = \frac{9000}{15^2}$$

$$= 40 \text{ lb/ft}^2$$

Static load

$$p = 125(.333)H = 125(.333)15$$
$$= 624.4 \text{ lb/ft}$$

$a/b = \frac{1}{2}$ use figure 4-attached

for $y/b = 0$ + $x/a = 1.0$ coef = .0325

$$Mom = (c)pb^2$$
$$= .0325(624.4)15^2 =$$
$$Mom = 4566$$

URS

Job: White Tanks | Project No. | Page 4 of ___
Description: Impact basin | Computed by | Sheet ___ of ___
Checked by: SJD | Date | Date: 8/25/04
Reference

Earthquake load

use fig. 1 (attached) with $p = 40\ lb/ft^2$

$M_y = coef\ p b^2$ $\quad b = 15'$

coef for $a/b = \frac{1}{2}$ $y/b = 0$ $x/a = 1.0$

coef = .0534

$Mom = (.0534)\ 40 (15^2)$
$= 481\ ft\text{-}lb$

Static EQ
$\Sigma M = 4566 + 481$
$5047\ ft\text{-}lb$

$f_s = 20{,}000$
$j = .87$
$d = 12''$

$A_s = \frac{M}{f_s j d} = \frac{5047(12)}{20{,}000(.87)12}$
$= .29\ in^2$

Use #6 @12" vertical in back wall and side walls $\quad A_s\ provided = 0.44\ in^2$

Use #5@12" vertical in middle walls

temp reinf $= .002(12)12$ $\quad A_s\ provided = 0.31\ in^2$
$= .29\ in^2$

$101.2\ pcf (15) = 1518$
$Mom = .0325(1518)(15)^2 = 11{,}100$?
$.44\ in^2$

URS

Job: White Tanks | Project No. | Page 5 of ___
Description: Impact Basin | Computed by: HKB | Sheet ___ of ___
Checked by: SJD | Date: 8-3-04 | Date: 8/25/04
Reference

Check Horizontal reinf.

Static load

$y/b = 1$ $x/a = 1$ $p = 624.4$

Coef = .0097 ✓ $b = 15$

$.0277 @ y/b = 0.4$

$M = \text{coef}\, p b^2$ $x/a = 0$

$.0097(624.4)\,15^2$ ✓ $.0277(624.4)(15)^2 = 3892$

$= 1363$ ft-lb ✓

Eq load use fig 1

$x/b = 1$ $x/a = 1$

Coef = .0432

$e y/b = 0.4$ & $x/a = 0$

$M_x = .0432(40)\,15^2$ $.0545(40)(15)^2 = 491$

$= 389$

$\Sigma M = 1752$ ft-lb $\Sigma M = 3892 + 491 = 4383$

$A_s = \dfrac{M}{f_s j d} = \dfrac{1752(12)}{29{,}000(.87)9}$ $A_s = \dfrac{4383(12)}{29{,}000(.87)9} = .33$

$= \underline{.13}$ in^2

(temp) Min reinf $= .002(12)12$

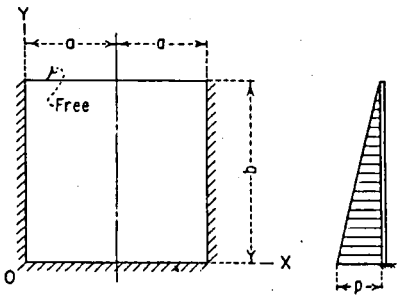
$= \underline{.29}$

ok for conserv. analysis

A_s provided $= 0.31$ in^2

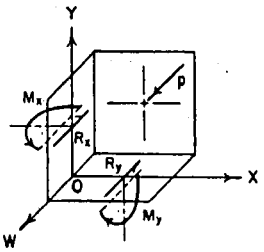
Use #5@12" horizontal in back wall, side walls and middle wall

			M_x						M_y					
	y/b	R_x \ x/a	0	0.2	0.4	0.6	0.8	1.0	0	0.2	0.4	0.6	0.8	1.0
a/b = 1/8	1.0	+.0082	+.0004	+.0002	+.0000	−.0001	−.0002	−.0002	0	0	0	0	0	0
	0.8	+.0251	+.0011	+.0005	+.0000	−.0003	−.0005	−.0005	+.0002	+.0001	+.0000	−.0000	−.0001	−.0001
	0.6	+.0496	+.0021	+.0009	+.0001	−.0006	−.0009	−.0011	+.0004	+.0002	+.0000	−.0001	−.0002	−.0002
	0.4	+.0751	+.0031	+.0014	+.0001	−.0008	−.0014	−.0016	+.0006	+.0003	+.0000	−.0002	−.0003	−.0003
	0.2	+.0942	+.0038	+.0016	+.0000	−.0010	−.0017	−.0019	+.0008	+.0003	−.0000	−.0003	−.0005	−.0005
	0	+.0460	0	+.0001	+.0003	+.0005	+.0006	+.0006	0	+.0005	+.0014	+.0023	+.0028	+.0030
		R_x \ R_y	+.0460	+.0136	+.0543	+.0839	+.1004	+.1056						
a/b = 1/4	1.0	+.0147	+.0022	+.0012	+.0002	−.0006	−.0012	−.0014	0	0	0	0	0	0
	0.8	+.0523	+.0046	+.0022	+.0002	−.0012	−.0021	−.0024	+.0009	+.0005	+.0002	−.0000	−.0002	−.0002
	0.6	+.1015	+.0083	+.0037	+.0002	−.0023	−.0038	−.0042	+.0017	+.0007	−.0000	−.0005	−.0009	−.0010
	0.4	+.1514	+.0114	+.0049	+.0001	−.0032	−.0051	−.0057	+.0023	+.0008	−.0004	−.0013	−.0019	−.0021
	0.2	+.1494	+.0102	+.0037	−.0004	−.0030	−.0043	−.0047	+.0020	+.0004	−.0011	−.0022	−.0029	−.0031
	0	+.0304	0	+.0004	+.0010	+.0016	+.0020	+.0021	0	+.0020	+.0052	+.0081	+.0100	+.0107
		R_x \ R_y	+.0304	+.0309	+.1052	+.1563	+.1856	+.1950						
a/b = 3/8	1.0	+.0189	+.0066	+.0040	+.0008	−.0020	−.0039	−.0045	0	0	0	0	0	0
	0.8	+.0885	+.0117	+.0056	+.0006	−.0031	−.0054	−.0062	+.0023	+.0012	+.0004	−.0002	−.0005	−.0007
	0.6	+.1541	+.0176	+.0075	+.0001	−.0049	−.0079	−.0088	+.0035	+.0013	−.0006	−.0020	−.0029	−.0032
	0.4	+.2107	+.0208	+.0079	−.0007	−.0061	−.0090	−.0099	+.0042	+.0009	−.0019	−.0042	−.0056	−.0061
	0.2	+.1691	+.0145	+.0045	−.0012	−.0042	−.0057	−.0061	+.0029	+.0001	−.0022	−.0039	−.0048	−.0051
	0	+.0102	0	+.0008	+.0020	+.0030	+.0038	+.0040	0	+.0039	+.0099	+.0152	+.0188	+.0200
		R_x \ R_y	+.0102	+.0474	+.1488	+.2154	+.2526	+.2645						
a/b = 1/2	1.0	+.0326	+.0151	+.0088	+.0015	−.0046	−.0084	−.0097	0	0	0	0	0	0
	0.8	+.1315	+.0216	+.0099	+.0007	−.0059	−.0099	−.0112	+.0043	+.0020	+.0002	−.0011	−.0019	−.0022
	0.6	+.1972	+.0273	+.0108	−.0005	−.0079	−.0119	−.0132	+.0055	+.0015	−.0020	−.0047	−.0064	−.0070
	0.4	+.2421	+.0277	+.0092	−.0019	−.0082	−.0115	−.0125	+.0055	+.0004	−.0042	−.0076	−.0097	−.0104
	0.2	+.1607	+.0160	+.0041	−.0017	−.0044	−.0055	−.0058	+.0032	−.0002	−.0026	−.0039	−.0044	−.0046
	0	−.0045	0	+.0014	+.0033	+.0050	+.0061	+.0065	0	+.0068	+.0167	+.0252	+.0307	+.0325
		R_x \ R_y	−.0045	+.0744	+.1942	+.2699	+.3108	+.3236						
a/b = 3/4	1.0	+.1061	+.0406	+.0196	+.0013	−.0115	−.0190	−.0214	0	0	0	0	0	0
	0.8	+.2077	+.0433	+.0177	−.0003	−.0119	−.0184	−.0205	+.0087	+.0031	−.0012	−.0042	−.0061	−.0067
	0.6	+.2408	+.0426	+.0145	−.0026	−.0124	−.0174	−.0189	+.0085	+.0010	−.0055	−.0102	−.0130	−.0139
	0.4	+.2542	+.0349	+.0091	−.0039	−.0102	−.0130	−.0138	+.0070	−.0011	−.0075	−.0115	−.0137	−.0143
	0.2	+.1337	+.0163	+.0031	−.0017	−.0031	−.0033	−.0033	+.0033	+.0001	−.0000	+.0014	+.0029	+.0035
	0	−.0196	0	+.0028	+.0064	+.0093	+.0111	+.0117	0	+.0139	+.0320	+.0465	+.0554	+.0584
		R_x \ R_y	−.0196	+.1256	+.2666	+.3496	+.3923	+.4055						
a/b = 1	1.0	+.1985	+.0644	+.0253	−.0013	−.0172	−.0252	−.0276	0	0	0	0	0	0
	0.8	+.2564	+.0601	+.0210	−.0028	−.0161	−.0226	−.0245	+.0120	+.0034	−.0026	−.0065	−.0088	−.0095
	0.6	+.2485	+.0515	+.0149	−.0047	−.0145	−.0189	−.0201	+.0103	+.0003	−.0075	−.0125	−.0151	−.0159
	0.4	+.2411	+.0372	+.0078	−.0049	−.0100	−.0118	−.0122	+.0074	−.0021	−.0076	−.0099	−.0106	−.0107
	0.2	+.1108	+.0154	+.0025	−.0006	−.0006	−.0000	+.0003	+.0031	+.0018	+.0060	+.0116	+.0160	+.0175
	0	−.0241	0	+.0044	+.0096	+.0137	+.0161	+.0169	0	+.0220	+.0482	+.0683	+.0804	+.0845
		R_x \ R_y	−.0241	+.1691	+.3199	+.4038	+.4457	+.4584						
a/b = 3/2	1.0	+.3127	+.0857	+.0207	−.0087	−.0199	−.0232	−.0238	0	0	0	0	0	0
	0.8	+.2929	+.0730	+.0158	−.0086	−.0172	−.0194	−.0198	+.0146	+.0023	−.0042	−.0072	−.0082	−.0085
	0.6	+.2352	+.0560	+.0094	−.0083	−.0134	−.0142	−.0141	+.0112	−.0013	−.0077	−.0096	−.0096	−.0094
	0.4	+.2148	+.0359	+.0038	−.0053	−.0065	−.0057	−.0053	+.0072	−.0021	−.0023	+.0012	+.0046	+.0059
	0.2	+.0897	+.0132	+.0021	+.0025	+.0050	+.0069	+.0076	+.0026	+.0077	+.0220	+.0356	+.0444	+.0474
	0	−.0204	0	+.0079	+.0158	+.0212	+.0243	+.0252	0	+.0396	+.0791	+.1062	+.1214	+.1262
		R_y	−.0204	+.2452	+.3964	+.4668	+.4966	+.5047						



Moment = (Coefficient)(pb^2)

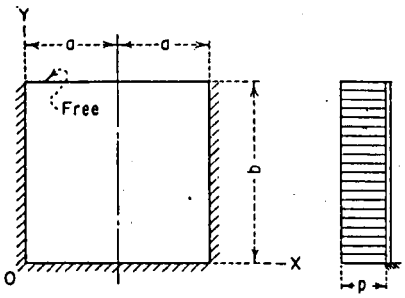
Reaction = (Coefficient)(pb)



POSITIVE SIGN CONVENTION

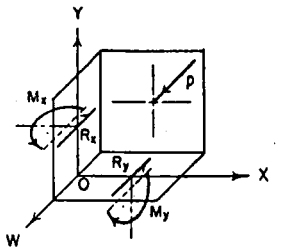
FIGURE 4.—*Plate fixed along three edges, moment and reaction coefficients, Load IV, uniformly varying load.*

			M_x						M_y					
	y/b	R_x \ x/a	0	0.2	0.4	0.6	0.8	1.0	0	0.2	0.4	0.6	0.8	1.0
a/b = 1/8	1.0	+.1249	+.0052	+.0024	+.0002	-.0014	-.0024	-.0027	0	0	0	0	0	0
	0.8	+.1248	+.0051	+.0023	+.0002	-.0014	-.0023	-.0026	+.0010	+.0005	+.0000	-.0003	-.0005	-.0005
	0.6	+.1247	+.0052	+.0023	+.0002	-.0014	-.0023	-.0027	+.0010	+.0005	+.0000	-.0003	-.0005	-.0005
	0.4	+.1250	+.0051	+.0023	+.0001	-.0014	-.0023	-.0027	+.0010	+.0005	+.0000	-.0003	-.0005	-.0006
	0.2	+.1185	+.0048	+.0021	+.0001	-.0013	-.0021	-.0024	+.0010	+.0004	-.0001	-.0004	-.0006	-.0007
	0	+.0504	0	+.0001	+.0003	+.0005	+.0006	+.0007	0	+.0006	+.0016	+.0025	+.0031	+.0033
		R_x \ R_y	+.0504	+.0116	+.0568	+.0893	+.1084	+.1141						
a/b = 1/4	1.0	+.2483	+.0209	+.0096	+.0007	-.0057	-.0096	-.0109	0	0	0	0	0	0
	0.8	+.2523	+.0206	+.0093	+.0006	-.0056	-.0093	-.0105	+.0041	+.0019	+.0002	-.0009	-.0016	-.0019
	0.6	+.2513	+.0205	+.0093	+.0006	-.0056	-.0093	-.0105	+.0041	+.0018	+.0000	-.0013	-.0021	-.0023
	0.4	+.2512	+.0196	+.0085	+.0003	-.0054	-.0088	-.0099	+.0039	+.0016	-.0004	-.0018	-.0027	-.0030
	0.2	+.1905	+.0137	+.0053	-.0003	-.0039	-.0059	-.0065	+.0027	+.0007	-.0011	-.0024	-.0032	-.0034
	0	+.0295	0	+.0005	+.0013	+.0020	+.0025	+.0027	0	+.0023	+.0063	+.0101	+.0126	+.0135
		R_x \ R_y	+.0295	+.0236	+.1131	+.1786	+.2174	+.2301						
a/b = 3/8	1.0	+.3711	+.0476	+.0219	+.0016	-.0130	-.0218	-.0247	0	0	0	0	0	0
	0.8	+.3896	+.0466	+.0208	+.0012	-.0126	-.0208	-.0235	+.0093	+.0042	+.0004	-.0022	-.0038	-.0043
	0.6	+.3757	+.0442	+.0193	+.0007	-.0122	-.0198	-.0223	+.0088	+.0036	-.0007	-.0039	-.0059	-.0065
	0.4	+.3541	+.0379	+.0155	-.0003	-.0107	-.0167	-.0186	+.0076	+.0024	-.0021	-.0054	-.0075	-.0082
	0.2	+.2133	+.0210	+.0075	-.0009	-.0059	-.0085	-.0093	+.0042	+.0009	-.0017	-.0034	-.0044	-.0047
	0	-.0015	0	+.0010	+.0027	+.0043	+.0054	+.0058	0	+.0050	+.0135	+.0215	+.0269	+.0288
		R_x \ R_y	-.0015	+.0303	+.1666	+.2644	+.3220	+.3410						
a/b = 1/2	1.0	+.5101	+.0852	+.0384	+.0022	-.0233	-.0383	-.0432	0	0	0	0	0	0
	0.8	+.5331	+.0807	+.0349	+.0013	-.0218	-.0353	-.0397	+.0161	+.0068	-.0001	-.0049	-.0077	-.0086
	0.6	+.4805	+.0712	+.0298	-.0000	-.0199	-.0313	-.0350	+.0142	+.0051	-.0026	-.0084	-.0120	-.0132
	0.4	+.4148	+.0545	+.0209	-.0014	-.0156	-.0233	-.0258	+.0109	+.0026	-.0043	-.0094	-.0125	-.0135
	0.2	+.1928	+.0250	+.0087	-.0009	-.0063	-.0089	-.0096	+.0050	+.0015	-.0003	-.0008	-.0008	-.0007
	0	-.0294	0	+.0019	+.0050	+.0080	+.0100	+.0107	0	+.0094	+.0252	+.0399	+.0499	+.0534
		R_x \ R_y	-.0294	+.0482	+.2263	+.3559	+.4322	+.4572						
a/b = 3/4	1.0	+.8592	+.1788	+.0716	-.0010	-.0471	-.0726	-.0807	0	0	0	0	0	0
	0.8	+.7864	+.1552	+.0607	-.0020	-.0414	-.0630	-.0698	+.0310	+.0112	-.0027	-.0119	-.0172	-.0190
	0.6	+.5989	+.1207	+.0460	-.0033	-.0336	-.0498	-.0549	+.0241	+.0071	-.0067	-.0166	-.0225	-.0245
	0.4	+.4378	+.0786	+.0280	-.0033	-.0214	-.0306	-.0333	+.0157	+.0036	-.0049	-.0100	-.0127	-.0135
	0.2	+.1185	+.0289	+.0109	+.0009	-.0034	-.0049	-.0053	+.0058	+.0060	+.0115	+.0186	+.0241	+.0262
	0	-.0694	0	+.0042	+.0115	+.0182	+.0227	+.0242	0	+.0212	+.0576	+.0911	+.1135	+.1212
		R_x \ R_y	-.0694	+.0806	+.3383	+.5271	+.6368	+.6725						
a/b = 1	1.0	+1.2115	+.2613	+.0883	-.0105	-.0654	-.0927	-.1008	0	0	0	0	0	0
	0.8	+.9558	+.2146	+.0727	-.0097	-.0551	-.0774	-.0840	+.0429	+.0134	-.0051	-.0164	-.0224	-.0243
	0.6	+.6250	+.1547	+.0525	-.0083	-.0411	-.0566	-.0611	+.0309	+.0090	-.0069	-.0169	-.0222	-.0238
	0.4	+.3984	+.0916	+.0305	-.0043	-.0216	-.0290	-.0310	+.0183	+.0069	+.0029	+.0030	+.0045	+.0053
	0.2	+.0434	+.0303	+.0127	+.0047	+.0033	+.0042	+.0048	+.0061	+.0149	+.0339	+.0542	+.0689	+.0742
	0	-.0939	0	+.0074	+.0199	+.0311	+.0384	+.0409	0	+.0369	+.0996	+.1556	+.1919	+.2043
		R_x \ R_y	-.0939	+.1167	+.4453	+.6760	+.8043	+.8450						
a/b = 3/2	1.0	+1.6267	+.3304	+.0700	-.0345	-.0730	-.0844	-.0865	0	0	0	0	0	0
	0.8	+1.0875	+.2609	+.0565	-.0286	-.0589	-.0670	-.0683	+.0522	+.0116	-.0069	-.0143	-.0165	-.0169
	0.6	+.5876	+.1778	+.0399	-.0195	-.0385	-.0422	-.0422	+.0356	+.0115	+.0017	+.0011	+.0035	+.0049
	0.4	+.3166	+.0981	+.0239	-.0056	-.0116	-.0101	-.0090	+.0196	+.0177	+.0315	+.0495	+.0634	+.0685
	0.2	-.0540	+.0302	+.0140	+.0140	+.0211	+.0273	+.0296	+.0060	+.0389	+.0912	+.1388	+.1699	+.1805
	0	-.1168	0	+.0159	+.0388	+.0565	+.0668	+.0702	0	+.0796	+.1939	+.2823	+.3340	+.3508
		R_y	-.1168	+.2429	+.6510	+.8793	+.9832	+1.0123						



Moment = (Coefficient) (pb^2)

Reaction = (Coefficient) (pb)



POSITIVE SIGN CONVENTION

FIGURE 1.—*Plate fixed along three edges, moment and reaction coefficients, Load I, uniform load.*

amec

APPENDIX A

APPENDIX B

TABLE 4

Recommended Peak Horizontal Acceleration
Seismic Exposure Evaluation
Dam Safety Program

Map ID	Facility Name	Source	Recommended PGA (%g)
1	Adobe Dam	Background	10
	Apache Junction FRS	Sugarloaf Fault	15
3	Buckeye FRS No. 1	Background	10
4	Buckeye FRS No. 2	Background	10
5	Buckeye FRS No. 3	Background	10
6	Casandro Wash Dam	Background	10
7	Cave Buttes Dam	Horseshoe Fault	10
8	Dreamy Draw Dam	Background	10
	Guadalupe FRS	Background	10
10	Harquahala FRS	Background	10
11	McMicken Dam	Background	10
12	New River Dam	Background	10
	Powerline FRS	Sugarloaf Fault	11
	Rittenhouse FRS	Background	10
15	Saddleback FRS	Background	10
16	Signal Butte FRS	Sugarloaf Fault	14
17	Spook Hill FRS	Sugarloaf Fault	13
18	Sunnycove FRS	Background	10
19	Sunset FRS	Background	10
20	Vineyard FRS	Sugarloaf Fault	10
21	White Tanks FRS No. 3	Background	10
22	White Tanks FRS No. 4	Background	10

Note:

Deterministically-derived values presented in red.

The stability analysis shall use undrained strengths or strength parameters for all saturated materials.

c. The applicant shall perform an analysis of the upstream slope stability for a partial pool with steady seepage considering the reservoir level that provides the lowest factor of safety.

d. A stability analysis is not required for low hazard potential dams if the owner or the owner's engineer demonstrates that conservative slopes and competent materials are included in the design.

2. Seismic Requirements

a. The applicant shall determine the seismic characteristics of the site as prescribed in subsection (A)(6).

b. The applicant shall determine the liquefaction susceptibility of the embankment, foundation, and abutments. The applicant shall use standard penetration testing, cone penetration testing, shear wave velocity measurements, or a combination of these methods to make this determination. The applicant shall compute the minimum factor of safety against liquefaction at specific points and make a determination of whether the overall site is subject to liquefaction.

c. The applicant shall determine the safety of the dam under seismic loading using a pseudo static stability analysis, computing the minimum factor of safety if the embankment, foundation or abutment is not subject to liquefaction and has a maximum peak acceleration of 0.2g or less, or a maximum peak acceleration of 0.35g or less, and consists of clay on a clay or bedrock foundation. The applicant shall use in the pseudo static stability analysis a pseudo static coefficient that is at least 60% of the maximum peak bedrock acceleration at the site.

d. The applicant shall compute a minimum factor of safety against overtopping due to deformation and settlement in each of the following cases. The minimum factor of safety against overtopping can be no less than 2.5, determined by dividing the total pre-earthquake freeboard by the estimated vertical settlement in feet. The applicant shall determine the total vertical settlement by adding the settlement values of the upstream and downstream slopes.

i. The minimum factor of safety in a pseudo static analysis is less than 1.0;

ii. An embankment, foundation, or abutment is not subject to liquefaction, has a maximum peak acceleration of more than 0.2g or a maximum peak acceleration of more than 0.35g and consists of clay on a clay or bedrock foundation; or

iii. The embankment, foundation or abutment is subject to liquefaction.

e. The applicant shall perform a liquefaction analysis to establish approximate boundaries of liquefiable zones and physical characteristics of the soil following liquefaction for an embankment, foundation, or abutment subject to liquefaction. The applicant shall perform an analysis of the potential for flow liquefaction.

f. Other, more sophisticated analytical procedures may be required by the Director for sites with high seismicity or low strength embankment or foundation soils.

3. Miscellaneous Design Requirements

a. The design of any significant or high hazard potential dam shall provide seepage collection and prevent internal erosion or piping due to embankment cracking or other causes.

b. The Director shall review the filter and permeability design for a chimney drain, drain blanket, toe drain, or outlet conduit filter diaphragms on the basis of unique site characteristics.

i. The minimum thickness of an internal drain is 3 feet.

ii. The minimum width of a chimney drain is 6 feet.

iii. The applicant shall filter match an internal drain to its adjacent material.

iv. The applicant shall design internal drains with sufficient capacity for the expected drainage without the use of drainpipes using only natural granular materials.

c. The use of a geosynthetic is not permitted in a design if it serves as the sole defense against dam failure. The use of geotextiles and geonets as a filter or drain material or a geomembrane liner is permitted only in a location that is easily accessible for repair or if its excavation cannot create an unsafe condition at the dam. A geosynthetic liner is allowed under special conditions and in specific situations if it is subject to monitoring and redundant safety controls. The Director may impose conditions, including monitoring appropriate to the hazard classification, inspection, and necessary repairs, each performed every 5 years.

d. The applicant shall use armoring on any upstream slope of an embankment dam that impounds water for more than 30 days at a time. If the applicant uses rock riprap, it shall be well-graded, durable, sized to withstand wave action, and placed on a well-graded pervious sand and gravel bedding or geotextile with filtering capacity appropriate for the site.

e. The applicant shall protect the downstream slopes and groins of an embankment dam from erosion.

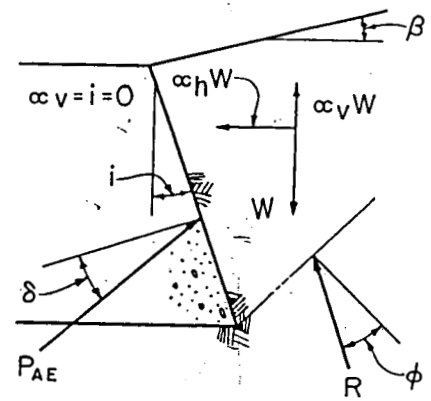
f. The minimum width of the top of an embankment dam is equal to the structural height of the dam divided by 5 plus an additional 5 feet. The required minimum width for any embankment dam is 12 feet. The maximum width for any embankment dam is 25 feet.

Historical Note

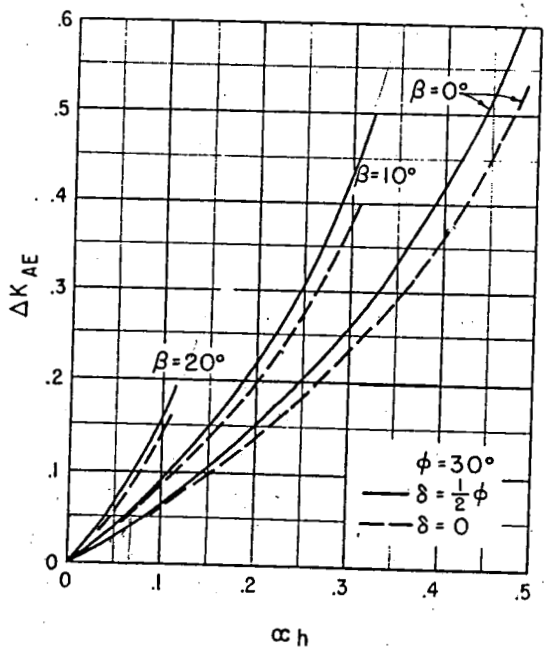
New Section adopted by final rulemaking at 6 A.A.R. 2558, effective June 12, 2000 (Supp. 00-2).

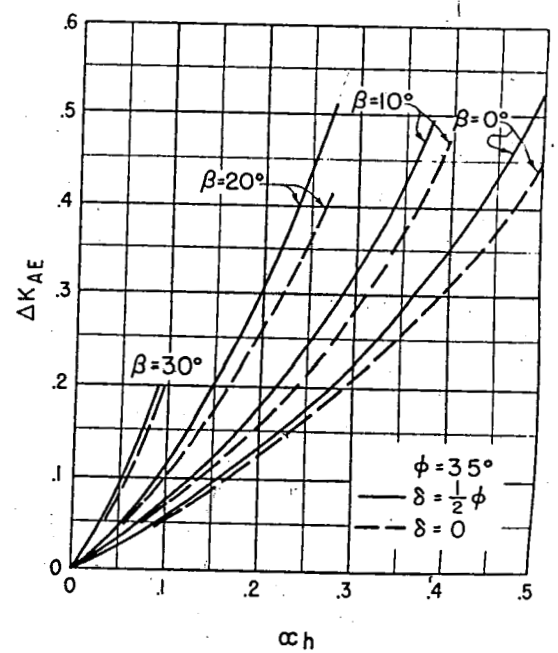
β	$\delta = 0$		$\delta = \frac{1}{2}\phi$	
	$\phi = 30°$	$\phi = 35°$	$\phi = 30°$	$\phi = 35°$
0°	.33	.27	.30	.25
10°	.37	.30	.34	.28
20°	.44	.34	.42	.32
30°	—	.44	—	.42

TABULATION OF ACTIVE EARTH PRESSURE COEFFICIENT (K_a)



$K_{AE} = \Delta K_{AE} + K_a$ [15]





DYNAMIC INCREMENT IN ACTIVE EARTH PRESSURE COEFFICIENT, ΔK_{AE}

Figure 5

600

C = .125

600(.25) / .0155

URS

Page ____ of ____

Job ____ Project No. ____ Sheet ____ of ____

Description ____ Computed by ____ Date ____

Checked by ____ Date ____

Reference

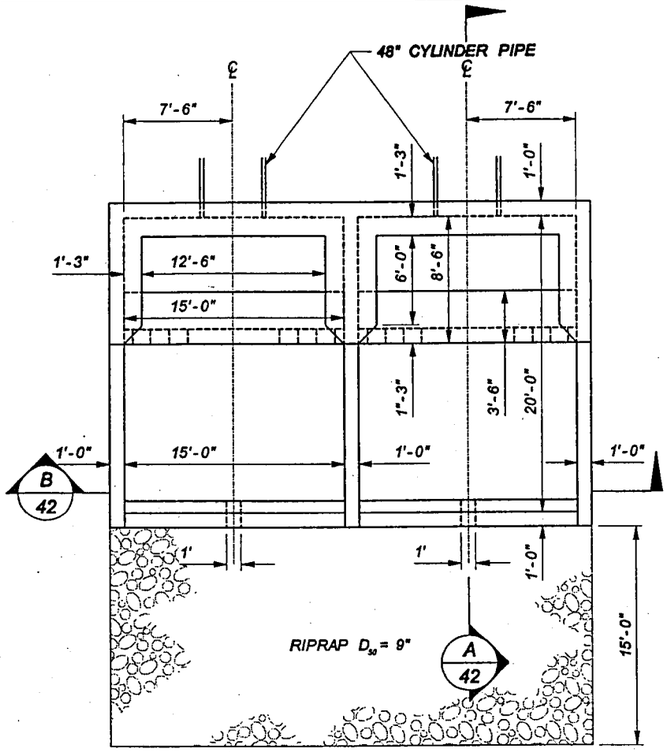
Telephone Memo 5:21 PM

From: Chris Wiggington - Phoenix 8-23-04

to: Harold Blair

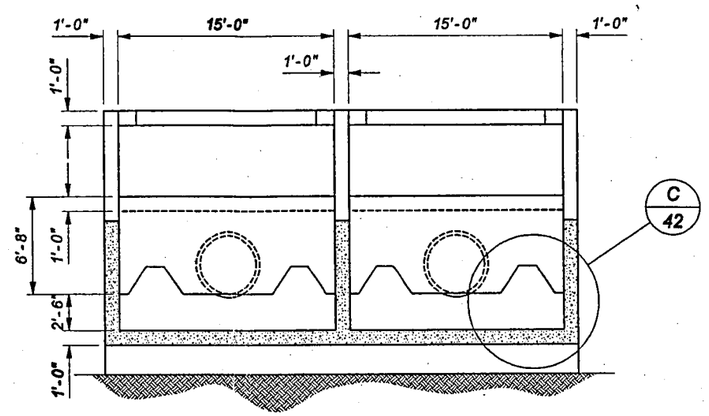
Subject: White tanks sediment level

The projected sediment level is El 1199.2. This is 0.8' below the principal spillway crest elevation. The walls of the vised structure should be designed for this load



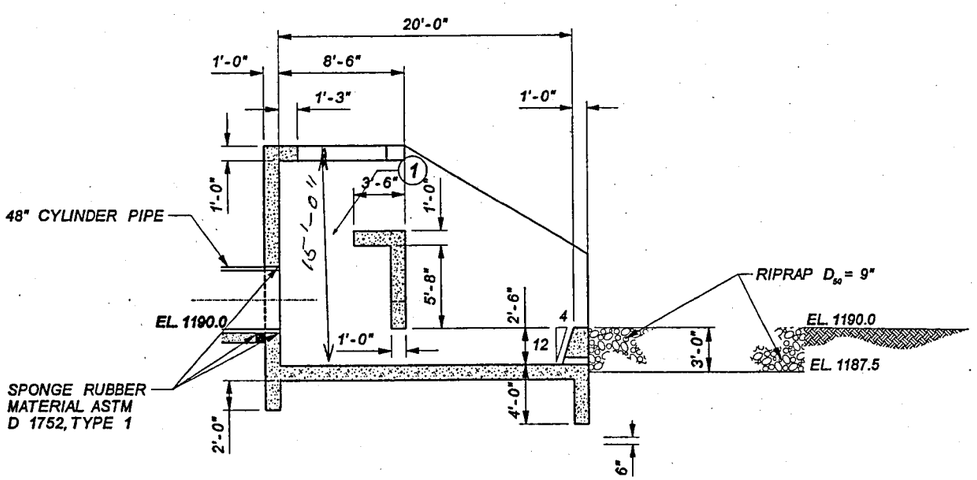
PLAN
IMPACT BASIN

2.5 0 2.5 5
Scale In Feet



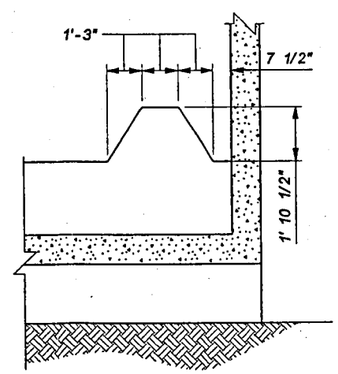
SECTION
DOWNSTREAM ELEVATION
B
42

2.5 0 2.5 5
Scale In Feet



SECTION
IMPACT BASIN
A
42

2.5 0 2.5 5
Scale In Feet



TYPICAL BAFFLE NOTCH
IMPACT BASIN
C
42

1.25 0 1.25 2.5
Scale In Feet

ITEM NO.	ITEM DESCRIPTION	QUANTITY

KEY NOTE:
1. 6-INCH THICK VIRGIN SPONGE RUBBER FILLER AS PER ASTM D 1752, TYPE 1. SEVERAL LAYERS LAMINATED TO MAKE A GOOD, TIGHT 6-INCH COMPRESSIBLE LAYER.

TWO WORKING DAYS BEFORE YOU DIG, CALL
263-1100
BLUE STAKE

NO.	REVISION	BY	DATE
B	90% DESIGN SUBMITTAL	TER	8-04
A	60% DESIGN SUBMITTAL	TER	6-04

ADWR APPROVAL

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

WHITE TANKS FRS NO 3
REMEDIATION DESIGN - PHASE 1
PCN 470.04.30, CONTRACT NO. 2004CO17

PRELIMINARY NOT FOR CONSTRUCTION

	BY	DATE
DESIGNED	TER	8-04
DRAWN	MSJ	8-04
CHECKED	RM	8-04

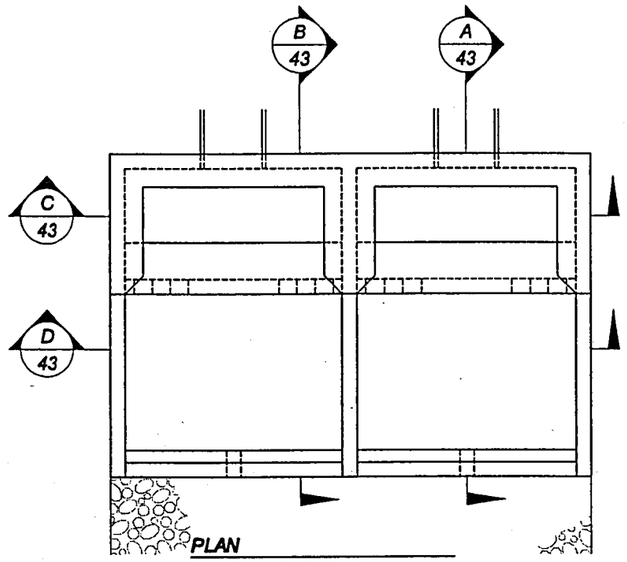
URS
7720 NORTH 16TH STREET
SUITE 100
PHOENIX, AZ 85020

DRAWING NO. XS20

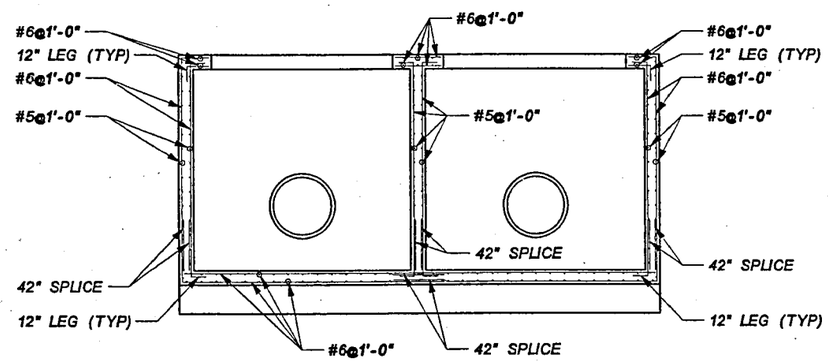
STILLING BASIN
SECTIONS AND DETAILS

SHEET 42 OF 48

P:\FCDMC\23443698 White Tanks\CADD\P1\REV B\WT3,XS20-P1-REVB.dgn
XREFS: PRIMARY OUTLET RISER.DGN, PL-FCD.DGN

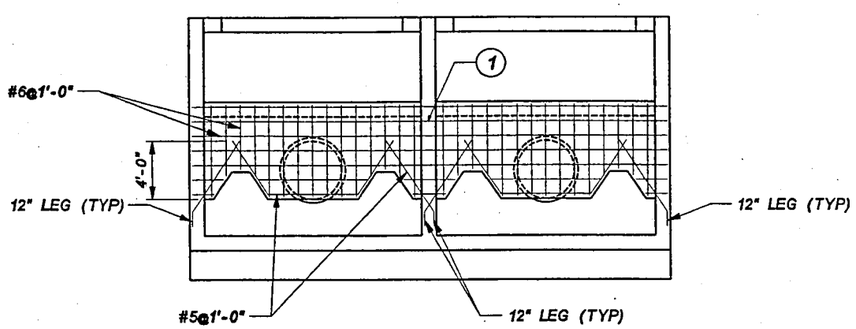


PLAN
IMPACT BASIN



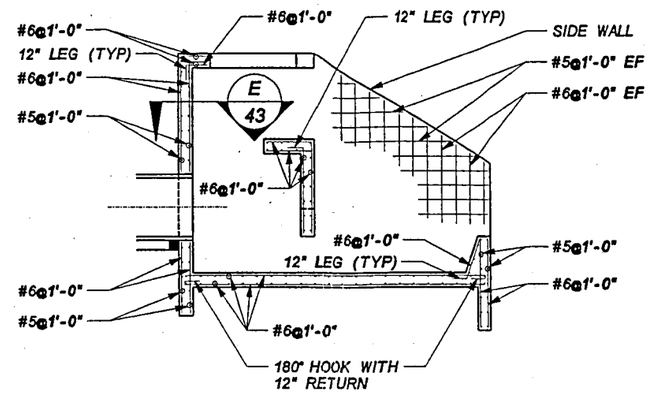
SECTION C 43
IMPACT BASIN

2.5 0 2.5 5
Scale in Feet



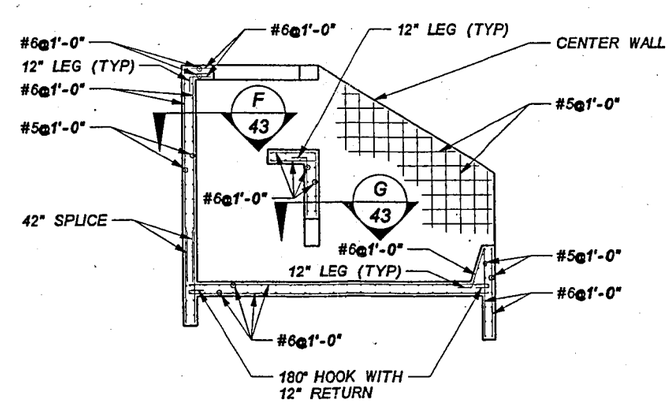
SECTION D 43
IMPACT BASIN

2.5 0 2.5 5
Scale in Feet



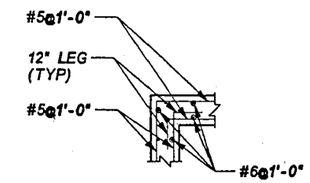
SECTION A 43
IMPACT BASIN

2.5 0 2.5 5
Scale in Feet



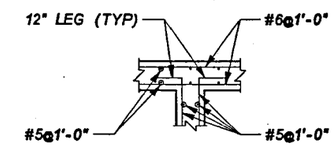
SECTION B 43
IMPACT BASIN

2.5 0 2.5 5
Scale in Feet



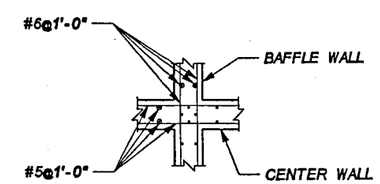
DETAIL E 43
SIDE WALL TO BACK WALL

1.25 0 1.25 2.5
Scale in Feet



DETAIL F 43
CENTER WALL TO BACK WALL

1.25 0 1.25 2.5
Scale in Feet



DETAIL G 43
CENTER WALL TO BAFFLE WALL

1.25 0 1.25 2.5
Scale in Feet

ITEM NO.	ITEM DESCRIPTION	QUANTITY

NOTE:
1. HORIZONTAL REINFORCEMENT EXTENDS THROUGH CENTER WALL.

TWO WORKING DAYS BEFORE YOU DIG, CALL
263-1100
BLUE STAKE

NO.	REVISION	BY	DATE
B	90% DESIGN SUBMITTAL	TER	8-04
A	60% DESIGN SUBMITTAL	TER	6-04

ADWR APPROVAL

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

WHITE TANKS FRS NO 3
REMEDIATION DESIGN - PHASE 1
PCN 470.04.30, CONTRACT NO. 2004CO17

PRELIMINARY NOT FOR CONSTRUCTION

	BY	DATE
DESIGNED	TER	8-04
DRAWN	MSJ	8-04
CHECKED	RM	8-04

URS
7720 NORTH 16TH STREET
SUITE 100
PHOENIX, AZ 85020

DRAWING NO. XS21
STILLING BASIN SECTIONS AND DETAILS
SHEET 43 OF 48

P:\FCDMC\23443698 White Tanks\CADD\P1\REV B\WT3_XS21-P1-REVB.dgn
XREFS: PRIMARY OUTLET RISER.DGN, PL-FCD.DGN

CALCULATION PACKAGE NO. H-9

EXHIBIT 4.7-2

CALCULATION COVER SHEET

Client: Flood Control District of Maricopa County

Project Name: White Tanks

Project/Calculation Number: 23443748.00312

Title: Impact Basin—Design Base Slab

Total Number of Pages (including cover sheet): 2

Total Number of Computer Runs: NA

Prepared By: Harold Blair **Date:** 8/23/2004

Checked By: Steve Dominic **Date:** 8/25/04

Description and Purpose

Determine thickness and reinforcement for impact basin floor slab.

Design Basis/References/Assumptions

Working stress design was utilized for determining reinforcement requirements consistent with approach presented in NRCS Engineering Handbook, Section 6.

Remarks/Conclusions/Results

1. The design results in #6 @12" each way, each face, in the floor slab.
2. See calculations on the back wall and sidewall for references and drawings of the impact basin- the cover sheet for these calculations are dated 8/23/2004.

Calculation Approved By: Todd Ringsmuth 9/9/04
Project Manager/Date

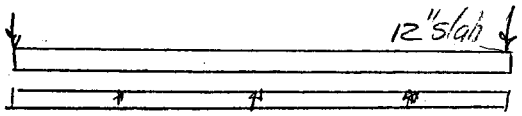
Revision No.:	Revision Description:	Approved By:
		Project Manager/Date

URS

Job: White Tanks | Project No. | Page 6 of ___
Description: Impact basin | Computed by | Sheet ___ of ___
Checked by: SSD | Date | Date: 8/25/04
Reference

Problem: Design base slab assuming 5 ft of uplift under slab - assume water trapped between cutoffs. conservative! ✓

15'



312 lb/ft - 150 lb/ft slab ✓
162 lb/ft ✓

$$Mom = \frac{wl^2}{8} \checkmark$$

$$= \frac{162(15^2)}{8}$$

$$= 4556 \text{ ft-lb} \checkmark$$

4556

$$A_s = \frac{M}{f_s j d} = \frac{4556(12)}{20{,}000(.87)9}$$

$$= .85 \text{ in}^2 \checkmark$$

min reinf = .002(12)12 = .29 ✓

Use #6 @ 12 in each way each face in floor slab. As provided = 0.44 ∴ ok

URS

CALCULATION PACKAGE NO. H-10

EXHIBIT 4.7-2

CALCULATION COVER SHEET

Client: FCDMC

Project Name: White Tanks FRS #3

Project/Calculation Number: 23443748

Title: **Trashrack Sizing Calculations**

Total Number of Pages (including cover sheet):

Total Number of Computer Runs:

Prepared by: Chris Wigginton

Date: 8/25/04

Checked by: Jurien Kim

Date: 8/25/04

Description and Purpose:

See Page 2

Design Basis /Assumptions

See Page 2-5

Remarks/Conclusions/Results:

See Page 5-6

Calculation Approved by: Todd Ringsmuth 9/9/04

Project Manager/Date

Revision No.:	Description of Revision:	Approved by:

Project Manager/Date

TRASH RACK SIZING CALCULATION
WHITE TANKS FRS NO. 3
URS JOB #23443748

DESCRIPTION AND PURPOSE:

This calculation package has been prepared for the trashracks associated with the two (2) proposed 48-inch diameter gated outlets for the White Tanks FRS No. 3 Dam Rehabilitation Project.

The purpose of this calculation package is to determine the structural components of the trashrack and minimum trashrack hydraulic area for each outlet. The main objectives of this calculation are the following:

- Minimize the overall area of the trashrack while maintaining a flow through velocity less than or equal to 2.5 feet per second (fps).
- Minimize the gross volume of structural steel while still providing structural support under a loading resulting from a 100 percent clogged condition under full reservoir head.
- Provide a design that allows for trashrack cleaning using backhoe (or similar) equipment.

DESIGN BASIS:

Structural Calculations:

The structural loading condition was developed assuming a 100 percent clogged trashrack under full reservoir head. Various trashrack bar spacings were analyzed to determine the ideal configuration. Initially, transverse support beams were analyzed at different spacings. This calculation resulted in multiple W-flange beams with minimum flange widths of 4-inches. The loss of flow area caused by these beams resulted in a large intake structure requirement (approximately 11-12 feet wide). Because the transverse beams would still require longitudinal bars to facilitate mechanical cleaning, it was determined to perform the calculations based on the longitudinal bars serving the purpose of structural components while facilitating trashrack cleanout.

It was determined that a Factor of Safety of 1 would be incorporated into the calculations due to the conservative loading condition previously stated.

Multiple uniform loads were calculated for various bar spacings in order to determine the optimum spacing of the bars. Using these uniform loads the longitudinal bars were analyzed for various lengths and spacings using the simple beam formula for bending moment.

$$M_u = wL^2 / 8$$

where; M_u = *Ultimate Moment*

w = *uniform load*

L = *unsupported length of the bar*

From the resulting moment, the flexural bending stress was calculated and compared to a rectangular bar section of 50 ksi steel using the following relationship:

$$f_b = M_u/S_x$$

where; f_b = *flexural bending stress*

M_u = *ultimate moment*

S_x = *section modulus of the steel bar*

From this relationship the minimum section modulus for the longitudinal steel bar was determined. For this calculation the following bar thicknesses were analyzed:

- 1/2 - inch
- 5/8 – inch
- 3/4 – inch

The longitudinal trashrack bars were analyzed for various bars spacings up to a maximum spacing of 12-inches. This dimension was selected based on the maximum bar spacing listed for a 30-inch diameter outlet ("J" Classification) per NRCS guidance document TR 46.

Transverse bars were incorporated to provide side to side stability for the longitudinal bars. These bars were sized using the simple beam formula as previously described.

Upon selection of the longitudinal and transverse bars, deflection calculations, weld calculations, and column loading calculations were performed to determine if the selected bar section and minimum weld sections were adequate.

Deflection calculations were performed using the following relationship:

$\delta = 5 \times (wL^4)/384EI_x)$ where,

δ = deflection (inches)

w = uniform load

L = unsupported bar length

E = modulus of elasticity

I_x = moment of inertia in the x-axis ($I_x = bh^3/12$)

Weld calculations were performed using the following relationship:

$R_{tot} > P$ where,

R_{tot} = total strength of the weld ($R_{tot} = L_w R_w$)

L_w = length of the weld

R_w = strength of the lightest weld (1/8" fillet, 60ksi tensile strength)

P = the total load on the span of the ¾" by ¾" transverse bars

Column load calculations were performed using the following relationship:

$P_u > P_{col}$ where,

$P_u = \phi_c A_g F_{cr}$

$\phi_c = 0.85$

A_g = column area

$F_{cr} = (0.658^{\lambda c \wedge 2}) F_y$ when $\lambda_c < 1.5$

$\lambda_c = KL/r\pi (\sqrt{F_y/E})$

F_y = yield stress (50ksi)

K = column support condition (0.5)

L = column length

r = radius of gyration in the critical direction

E = modulus of elasticity

P_{col} = column load

Hydraulics:

The required bar sections determined from the structural calculations were used to perform hydraulic calculations. A longitudinal bar length of ten (10) feet was set as the minimum required length to facilitate the sluice gate mechanism for the outlet pipes and in order to minimize the required cross-sectional area required for the longitudinal bars. Following the NRCS inlet structure design for outlet works (TR 46), the front of the concrete inlet structure remained open and allowed for additional trashrack bars. The NRCS design incorporated transverse bars formed into the concrete vault structure. For our design, we continued the longitudinal bars vertically until they contacted the concrete structure adjacent to the sluice gate contact point. This allowed additional effective length to be added to the longitudinal length of the trashrack.

From the outlet pipe hydraulic calculations (separate calculation package), it was determined that the maximum full reservoir outlet pipe discharge was 270 cubic feet per second (cfs). According to NRCS criteria (TR 60), the maximum allowable flow velocity through the trashrack is 2.5 fps. A calculation was performed for various trashrack bar sizes, spacings, and gross lengths, to determine the minimum width of the concrete inlet structure.

RESULTS:

From the structural calculations, it was determined that ½-inch thick bars, slightly less than 6 ¼-inch tall, spanning a gross length of 12.5 feet would result in the "lightest" trashrack structure. These bars will be spaced at 12-inches on center. To keep the bars from moving side to side, transverse bars, ¾ - inch by ¾ - inch in section, will be welded to the longitudinal bars at 12-inches on center. At the intersection of the longitudinal bars and the vertical bars and at the mid-span of the 10-foot unsupported length of the bars, steel bars measuring ½-inch thick by 6-inches wide by 11.5 inches long will be welded between the main trashrack bars. Also, 4-inch by 6-inch angles will be welded in the transverse direction along the top end and bottom of the vertical components of the trashrack. Holes will be drilled through the angles and anchor bolts will be incorporated

to secure the trashrack to the concrete. For additional anchoring, similar steel angles can be welded to each side of the outer longitudinal bars. These angles could then be drilled and anchored in a similar manner.

Using the gross length, bar spacing, and bar thickness determined in the structural calculations, it was determined that a width of 9.632 feet was required for the inside dimension of the inlet structure. Based on the bar spacing required, an inlet structure width of 10 feet was selected.

It should be noted that the trashrack was designed to have a 2-foot section within the center of the trashrack that can be opened to facilitate cleaning. Two additional longitudinal bars and a hinge mechanism were added to make this possible. As stated previously, the trashrack gross width was increased by approximately 0.368 feet, therefore accommodating the additional bars required.

REFERNCES:

NRCS, Technical Release (TR) 46, "Gated Outlets Appurtenances Earth Dams," dated June 1969.

NRCS TR 60 Amendment 1, "Earth Dams and Reservoirs," dated October 1985.

Structural Steel Design, LRFD Method, Second Edition, Jack C. McCormac, 1995.

TRASHRACK LOADING FOR VARIOUS SPACING

γ water (pcf)	62.4
Height (ft)	17

Calculate uniform load (w) for various spacings

Spacing	w (plf)
0.50	530.40
0.75	795.60
1.00	1060.80
1.25	1326.00
1.50	1591.20
1.75	1856.40
2.00	2121.60
2.25	2386.80
2.50	2652.00
2.75	2917.20

TRASHRACK CALCULATION FORMULAS

	A	B
1	γ water (pcf)	62.4
2	Height (ft)	17
3	**Calculate uniform load (w) for various spacings**	
4	**Spacing**	**w (plf)**
5	0.5	=$B$1*$B$2*A5
6	0.75	=$B$1*$B$2*A6
7	1	=$B$1*$B$2*A7
8	1.25	=$B$1*$B$2*A8
9	1.5	=$B$1*$B$2*A9
10	1.75	=$B$1*$B$2*A10
11	2	=$B$1*$B$2*A11
12	2.25	=$B$1*$B$2*A12
13	2.5	=$B$1*$B$2*A13
14	2.75	=$B$1*$B$2*A14
15		
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LONGITUDINAL BAR TRASHRACK
STRUCTURAL CALCULATIONS

Longitudinal Bar Calculation

6-Inch Spacing

Span (ft)	Ult. Moment (Mu) (lbf-in)	Section Modulus Req. (Sx) (in^3)	Req. Height of 1/2" Thick Bar	Req. Height of 5/8" Thick Bar	Req. Height of 3/4" Thick Bar
2.00	3182	0.064	0.874	0.782	0.714
2.25	4028	0.081	0.983	0.879	0.803
2.50	4973	0.099	1.092	0.977	0.892
2.75	6017	0.120	1.202	1.075	0.981
10.00	79560	1.591	4.370	3.908	3.568
10.50	87715	1.754	4.588	4.104	3.746
10.75	91942	1.839	4.697	4.202	3.835
11.00	96268	1.925	4.807	4.299	3.925
11.50	105218	2.104	5.025	4.495	4.103
12.00	114566	2.291	5.244	4.690	4.281
12.50	124313	2.486	5.462	4.885	4.460
13.00	134456	2.689	5.681	5.081	4.638
13.50	144998	2.900	5.899	5.276	4.817

9-Inch Spacing

Span (ft)	Ult. Moment (Mu) (lbf-in)	Section Modulus Req. (Sx) (in^3)	Req. Height of 1/2" Thick Bar	Req. Height of 5/8" Thick Bar	Req. Height of 3/4" Thick Bar
2.00	4774	0.095	1.070	0.957	0.874
2.25	6042	0.121	1.204	1.077	0.983
2.50	7459	0.149	1.338	1.197	1.092
2.75	9025	0.181	1.472	1.316	1.202
10.00	119340	2.387	5.352	4.787	4.370
10.50	131572	2.631	5.619	5.026	4.588
10.75	137912	2.758	5.753	5.146	4.697
11.00	144401	2.888	5.887	5.265	4.807
11.50	157827	3.157	6.155	5.505	5.025
12.00	171850	3.437	6.422	5.744	5.244
12.50	186469	3.729	6.690	5.983	5.462
13.00	201685	4.034	6.957	6.223	5.681
13.50	217497	4.350	7.225	6.462	5.899

12-Inch Spacing

Span (ft)	Ult. Moment (Mu) (lbf-in)	Section Modulus Req. (Sx) (in^3)	Req. Height of 1/2" Thick Bar	Req. Height of 5/8" Thick Bar	Req. Height of 3/4" Thick Bar
2.00	6365	0.127	1.236	1.105	1.009
2.25	8055	0.161	1.390	1.244	1.135
2.50	9945	0.199	1.545	1.382	1.261
2.75	12033	0.241	1.699	1.520	1.388
10.00	159120	3.182	6.180	5.527	5.046
10.50	175430	3.509	6.489	5.804	5.298
10.75	183883	3.678	6.643	5.942	5.424
11.00	192535	3.851	6.798	6.080	5.550
11.50	210436	4.209	7.107	6.356	5.803
12.00	229133	4.583	7.416	6.633	6.055
12.50	248625	4.973	7.725	6.909	6.307
13.00	268913	5.378	8.034	7.185	6.559
13.50	289996	5.800	8.343	7.462	6.812

15-Inch Spacing

Span (ft)	Ult. Moment (Mu) (lbf-in)	Section Modulus Req. (Sx) (in^3)	Req. Height of 1/2" Thick Bar	Req. Height of 5/8" Thick Bar	Req. Height of 3/4" Thick Bar
2.00	7956	0.159	1.382	1.236	1.128
2.25	10069	0.201	1.555	1.390	1.269
2.50	12431	0.249	1.727	1.545	1.410
2.75	15042	0.301	1.900	1.699	1.551
10.00	198900	3.978	6.909	6.180	5.641
10.50	219287	4.386	7.255	6.489	5.923
10.75	229854	4.597	7.427	6.643	6.064
11.00	240669	4.813	7.600	6.798	6.205
11.50	263045	5.261	7.945	7.107	6.487
12.00	286416	5.728	8.291	7.416	6.770
12.50	310781	6.216	8.636	7.725	7.052
13.00	336141	6.723	8.982	8.034	7.334
13.50	362495	7.250	9.327	8.343	7.616

TRASHRACK CALCULATION FORMULAS

	W	X	Y	Z	AA	AB
1						
2						
3	**Span (ft)**	**Ult. Moment (Mu) (lbf-in)**	**Section Modulus Req. (Sx) (in^3)**	**Req. Height of 1/2" Thick Bar**	**Req. Height of 5/8" Thick Bar**	**Req. Height of 3/4" Thick Bar**
4	2	=$B$6*W4^2/8*12	=X4/50000	=(Y4*6/0.5)^0.5	=(Y4*6/0.625)^0.5	=(Y4*6/0.75)^0.5
5	2.25	=$B$6*W5^2/8*12	=X5/50000	=(Y5*6/0.5)^0.5	=(Y5*6/0.625)^0.5	=(Y5*6/0.75)^0.5
6	2.5	=$B$6*W6^2/8*12	=X6/50000	=(Y6*6/0.5)^0.5	=(Y6*6/0.625)^0.5	=(Y6*6/0.75)^0.5
7	2.75	=$B$6*W7^2/8*12	=X7/50000	=(Y7*6/0.5)^0.5	=(Y7*6/0.625)^0.5	=(Y7*6/0.75)^0.5
8	10	=$B$6*W8^2/8*12	=X8/50000	=(Y8*6/0.5)^0.5	=(Y8*6/0.625)^0.5	=(Y8*6/0.75)^0.5
9	10.5	=$B$6*W9^2/8*12	=X9/50000	=(Y9*6/0.5)^0.5	=(Y9*6/0.625)^0.5	=(Y9*6/0.75)^0.5
10	10.75	=$B$6*W10^2/8*12	=X10/50000	=(Y10*6/0.5)^0.5	=(Y10*6/0.625)^0.5	=(Y10*6/0.75)^0.5
11	11	=$B$6*W11^2/8*12	=X11/50000	=(Y11*6/0.5)^0.5	=(Y11*6/0.625)^0.5	=(Y11*6/0.75)^0.5
12	11.5	=$B$6*W12^2/8*12	=X12/50000	=(Y12*6/0.5)^0.5	=(Y12*6/0.625)^0.5	=(Y12*6/0.75)^0.5
13	12	=$B$6*W13^2/8*12	=X13/50000	=(Y13*6/0.5)^0.5	=(Y13*6/0.625)^0.5	=(Y13*6/0.75)^0.5
14	12.5	=$B$6*W14^2/8*12	=X14/50000	=(Y14*6/0.5)^0.5	=(Y14*6/0.625)^0.5	=(Y14*6/0.75)^0.5
15	13	=$B$6*W15^2/8*12	=X15/50000	=(Y15*6/0.5)^0.5	=(Y15*6/0.625)^0.5	=(Y15*6/0.75)^0.5
16	13.5	=$B$6*W16^2/8*12	=X16/50000	=(Y16*6/0.5)^0.5	=(Y16*6/0.625)^0.5	=(Y16*6/0.75)^0.5
17						
18	**Span (ft)**	**Ult. Moment (Mu) (lbf-in)**	**Section Modulus Req. (Sx) (in^3)**	**Req. Height of 1/2" Thick Bar**	**Req. Height of 5/8" Thick Bar**	**Req. Height of 3/4" Thick Bar**
19	2	=$B$8*W19^2/8*12	=X19/50000	=(Y19*6/0.5)^0.5	=(Y19*6/0.625)^0.5	=(Y19*6/0.75)^0.5
20	2.25	=$B$8*W20^2/8*12	=X20/50000	=(Y20*6/0.5)^0.5	=(Y20*6/0.625)^0.5	=(Y20*6/0.75)^0.5
21	2.5	=$B$8*W21^2/8*12	=X21/50000	=(Y21*6/0.5)^0.5	=(Y21*6/0.625)^0.5	=(Y21*6/0.75)^0.5
22	2.75	=$B$8*W22^2/8*12	=X22/50000	=(Y22*6/0.5)^0.5	=(Y22*6/0.625)^0.5	=(Y22*6/0.75)^0.5
23	10	=$B$8*W23^2/8*12	=X23/50000	=(Y23*6/0.5)^0.5	=(Y23*6/0.625)^0.5	=(Y23*6/0.75)^0.5
24	10.5	=$B$8*W24^2/8*12	=X24/50000	=(Y24*6/0.5)^0.5	=(Y24*6/0.625)^0.5	=(Y24*6/0.75)^0.5
25	10.75	=$B$8*W25^2/8*12	=X25/50000	=(Y25*6/0.5)^0.5	=(Y25*6/0.625)^0.5	=(Y25*6/0.75)^0.5
26	11	=$B$8*W26^2/8*12	=X26/50000	=(Y26*6/0.5)^0.5	=(Y26*6/0.625)^0.5	=(Y26*6/0.75)^0.5
27	11.5	=$B$8*W27^2/8*12	=X27/50000	=(Y27*6/0.5)^0.5	=(Y27*6/0.625)^0.5	=(Y27*6/0.75)^0.5
28	12	=$B$8*W28^2/8*12	=X28/50000	=(Y28*6/0.5)^0.5	=(Y28*6/0.625)^0.5	=(Y28*6/0.75)^0.5
29	12.5	=$B$8*W29^2/8*12	=X29/50000	=(Y29*6/0.5)^0.5	=(Y29*6/0.625)^0.5	=(Y29*6/0.75)^0.5
30	13	=$B$8*W30^2/8*12	=X30/50000	=(Y30*6/0.5)^0.5	=(Y30*6/0.625)^0.5	=(Y30*6/0.75)^0.5
31	13.5	=$B$8*W31^2/8*12	=X31/50000	=(Y31*6/0.5)^0.5	=(Y31*6/0.625)^0.5	=(Y31*6/0.75)^0.5

Steel Quantity Calculation

Steel Quantities

Bar Spacing (in)	Horizontal Span (3:1 Slope) (ft)	Vertical Span (ft)	Gross Length (ft)	Gross Width (1/2" Bar)	Gross Width (5/8" Bar)	Gross Width (3/4" Bar)	Number of 1/2" Bars	Number of 5/8" Bars	Number of 3/4" Bars	1/2" Bar Height (in)	5/8" Bar Height (in)	3/4" Bar Height (in)	Steel Volume (1/2" Bars)	Steel Volume (5/8" Bars)	Steel Volume (3/4" Bars)	Steel Weight (1/2" Bar)	Steel Weight (5/8" Bar)	Steel Weight (3/4" Bar)
6	10	2.5	12.5	10.09	10.30	10.50	21.00	21.00	21.00	4.375	4.000	3.625	3.988	4.557	4.956	1994	2279	2478
6	10	3	13	9.66	9.84	10.16	19.00	19.00	21.00	4.375	4.000	3.625	3.752	4.288	5.154	1876	2144	2577
9	10	2.5	12.5	9.82	10.04	10.19	15.00	16.00	16.00	5.375	4.875	4.375	3.499	4.232	4.557	1750	2116	2279
9	10	3	13	9.47	9.61	9.75	15.00	15.00	15.00	5.375	4.875	4.375	3.639	4.126	4.443	1820	2063	2222
12	10	2.5	12.5	9.63	9.73	9.82	10.00	10.00	10.00	6.250	5.625	5.125	2.713	3.052	3.337	1356	1526	1668
12	10	3	13	9.28	9.37	9.47	10.00	10.00	10.00	6.250	5.625	5.125	2.821	3.174	3.470	1411	1587	1735

TRASHRACK CALCULATION FORMULAS

Steel Quantities

Bar Spacing (in)	Horizontal Span (3:1 Slope) (ft)	Vertical Span (ft)	Gross Length (ft)	Gross Width (1/2" Bar)	Gross Width (5/8" Bar)	Gross Width (3/4" Bar)
6	10	2.5	=AF4+AE4	=Hydraulics!B49	=Hydraulics!C49	=Hydraulics!D49
6	10	3	=AF5+AE5	=Hydraulics!B52	=Hydraulics!C52	=Hydraulics!D52
9	10	2.5	=AF6+AE6	=Hydraulics!B74	=Hydraulics!C74	=Hydraulics!D74
9	10	3	=AF7+AE7	=Hydraulics!B77	=Hydraulics!C77	=Hydraulics!D77
12	10	2.5	=AF8+AE8	=Hydraulics!B24	=Hydraulics!C24	=Hydraulics!D24
12	10	3	=AF9+AE9	=Hydraulics!B27	=Hydraulics!C27	=Hydraulics!D27

TRASHRACK CALCULATION FORMULAS

	AK	AL	AM	AN	AO
1					
2					
3	**Number of 1/2" Bars**	**Number of 5/8" Bars**	**Number of 3/4" Bars**	**1/2" Bar Height (in)**	**5/8" Bar Height (in)**
4	=(2*TRUNC(AH4))+1	=(2*TRUNC(AI4))+1	=(2*TRUNC(AJ4))+1	4.375	4
5	=(2*TRUNC(AH5))+1	=(2*TRUNC(AI5))+1	=(2*TRUNC(AJ5))+1	4.375	4
6	=(ROUND(1.5*TRUNC(AH6),0))+	=(ROUND(1.5*TRUNC(AI6),0))+	=(ROUND(1.5*TRUNC(AJ6),0))+	5.375	4.875
7	=(ROUND(1.5*TRUNC(AH7),0))+	=(ROUND(1.5*TRUNC(AI7),0))+	=(ROUND(1.5*TRUNC(AJ7),0))+	5.375	4.875
8	=(TRUNC(AH8))+1	=(TRUNC(AI8))+1	=(TRUNC(AJ8))+1	6.25	5.625
9	=(TRUNC(AH9))+1	=(TRUNC(AI9))+1	=(TRUNC(AJ9))+1	6.25	5.625
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31					

TRASHRACK CALCULATION FORMULAS

	AP	AQ	AR	AS	AT
1					
2					
3	**3/4" Bar Height (in)**	**Steel Volume (1/2" Bars)**	**Steel Volume (5/8" Bars)**	**Steel Volume (3/4" Bars)**	**Steel Weight (1/2" Bar)**
4	3.625	=AK4*((0.5/12)*(AN4/12)*AG4)	=AL4*((0.625/12)*(AO4/12)*AG4)	=AM4*((0.75/12)*(AP4/12)*AG4)	=AQ4*500
5	3.625	=AK5*((0.5/12)*(AN5/12)*AG5)	=AL5*((0.625/12)*(AO5/12)*AG5)	=AM5*((0.75/12)*(AP5/12)*AG5)	=AQ5*500
6	4.375	=AK6*((0.5/12)*(AN6/12)*AG6)	=AL6*((0.625/12)*(AO6/12)*AG6)	=AM6*((0.75/12)*(AP6/12)*AG6)	=AQ6*500
7	4.375	=AK7*((0.5/12)*(AN7/12)*AG7)	=AL7*((0.625/12)*(AO7/12)*AG7)	=AM7*((0.75/12)*(AP7/12)*AG7)	=AQ7*500
8	5.125	=AK8*((0.5/12)*(AN8/12)*AG8)	=AL8*((0.625/12)*(AO8/12)*AG8)	=AM8*((0.75/12)*(AP8/12)*AG8)	=AQ8*500
9	5.125	=AK9*((0.5/12)*(AN9/12)*AG9)	=AL9*((0.625/12)*(AO9/12)*AG9)	=AM9*((0.75/12)*(AP9/12)*AG9)	=AQ9*500
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31					

TRASHRACK CALCULATION FORMULAS

	AU	AV
1		
2		
3	**Steel Weight (5/8" Bar)**	**Steel Weight (3/4" Bar)**
4	=AR4*500	=AS4*500
5	=AR5*500	=AS5*500
6	=AR6*500	=AS6*500
7	=AR7*500	=AS7*500
8	=AR8*500	=AS8*500
9	=AR9*500	=AS9*500
10		
11		
12		
13		
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Trashrack Hydraulic Evaluation

Calculated Flow	270	cfs	Length Spacing	12	inches
Target Velocity	2.5	fps	Width Spacing	12	inches

Width Spacing 12 inches

Gross Length	Gross Width (1/2" Bar)	Gross Width (5/8" Bar)	Gross Width (3/4" Bar)	Net Length	Net Width			Net Area			Flow Velocity		
				1/2" Bar	1/2" Bar	5/8" Bar	3/4" Bar	1/2" Bar	5/8" Bar	3/4" Bar	1/2" Bar	5/8" Bar	3/4" Bar
10	12.000	12.000	12.000	9.25	11.50	11.38	11.25	106.38	105.22	104.07	2.54	2.57	2.59
10	12.175	12.300	12.425	9.25	11.68	11.68	11.67	108.00	108.00	108.00	2.50	2.50	2.50
10	12.500	12.500	12.500	9.25	12.00	11.88	11.75	111.00	109.85	108.69	2.43	2.46	2.48
10.5	11.500	11.500	11.500	9.75	11.04	10.93	10.81	107.66	106.54	105.43	2.51	2.53	2.56
10.5	11.535	11.647	11.761	9.75	11.08	11.07	11.07	108.00	107.98	107.97	2.50	2.50	2.50
10.5	12.000	12.000	12.000	9.75	11.50	11.38	11.25	112.13	110.91	109.69	2.41	2.43	2.46
11	10.500	11.000	11.000	10.21	10.08	10.43	10.31	102.94	106.45	105.28	2.62	2.54	2.56
11	10.996	11.153	11.267	10.21	10.58	10.58	10.58	108.00	108.00	108.00	2.50	2.50	2.50
11	11.000	11.500	11.500	10.21	10.54	10.93	10.81	107.62	111.55	110.38	2.51	2.42	2.45
11.5	10.500	10.500	10.500	10.71	10.08	9.98	9.88	107.98	106.86	105.75	2.50	2.53	2.55
11.5	10.501	10.605	10.708	10.71	10.08	10.08	10.08	107.99	107.98	107.97	2.50	2.50	2.50
11.5	11.000	11.000	11.000	10.71	10.54	10.43	10.31	112.89	111.66	110.43	2.39	2.42	2.44
12	10.000	10.000	10.000	11.17	9.58	9.48	9.38	107.02	105.85	104.69	2.52	2.55	2.58
12	10.088	10.190	10.296	11.17	9.67	9.67	9.67	108.00	107.98	108.00	2.50	2.50	2.50
12	10.500	10.500	10.500	11.17	10.08	9.98	9.88	112.60	111.44	110.27	2.40	2.42	2.45
12.5	9.500	9.500	9.500	11.67	9.13	9.03	8.94	106.46	105.37	104.27	2.54	2.56	2.59
12.5	9.632	9.726	9.821	11.67	9.26	9.26	9.26	108.00	108.00	108.01	2.50	2.50	2.50
12.5	10.000	10.000	10.000	11.67	9.58	9.48	9.38	111.81	110.59	109.38	2.41	2.44	2.47
13	9.000	9.000	9.000	12.13	8.63	8.53	8.44	104.58	103.44	102.31	2.58	2.61	2.64
13	9.280	9.373	9.467	12.13	8.90	8.90	8.90	107.97	107.97	107.97	2.50	2.50	2.50
13	9.500	9.500	9.500	12.13	9.13	9.03	8.94	110.64	109.51	108.37	2.44	2.47	2.49

Width Spacing 6 inches

Gross Length	Gross Width (1/2" Bar)	Gross Width (5/8" Bar)	Gross Width (3/4" Bar)	Net Length	Net Width			Net Area			Flow Velocity		
				1/2" Bar	1/2" Bar	5/8" Bar	3/4" Bar	1/2" Bar	5/8" Bar	3/4" Bar	1/2" Bar	5/8" Bar	3/4" Bar
10	12.500	12.500	13.000	9.25	11.50	11.25	11.38	106.38	104.07	105.22	2.54	2.59	2.57
10	12.676	12.926	13.300	9.25	11.68	11.68	11.68	108.00	108.00	108.00	2.50	2.50	2.50
10	13.000	13.000	13.500	9.25	11.92	11.65	11.88	110.23	107.73	109.85	2.45	2.51	2.46
10.5	12.000	12.000	12.500	9.75	11.00	10.75	11.00	107.25	104.82	107.25	2.52	2.58	2.52
10.5	12.077	12.326	12.573	9.75	11.08	11.08	11.07	108.00	108.00	107.97	2.50	2.50	2.50
10.5	12.500	12.500	13.000	9.75	11.50	11.25	11.38	112.13	109.69	110.91	2.41	2.46	2.43
11	11.000	11.500	11.500	10.21	10.08	10.35	10.13	102.94	105.70	103.36	2.62	2.55	2.61
11	11.496	11.725	11.953	10.21	10.58	10.58	10.58	108.00	108.00	107.99	2.50	2.50	2.50
11	11.500	12.000	12.000	10.21	10.58	10.75	10.50	108.04	109.74	107.19	2.50	2.46	2.52
11.5	10.500	11.000	11.000	10.71	9.67	9.85	9.63	103.52	105.52	103.07	2.61	2.56	2.62
11.5	10.919	11.231	11.457	10.71	10.09	10.09	10.08	108.00	108.00	107.97	2.50	2.50	2.50
11.5	11.000	11.500	11.500	10.71	10.08	10.35	10.13	107.98	110.88	108.43	2.50	2.44	2.49
12	10.500	10.500	10.500	11.17	9.67	9.46	9.25	107.95	105.62	103.29	2.50	2.56	2.61
12	10.505	10.713	10.920	11.17	9.67	9.67	9.67	108.00	108.00	107.99	2.50	2.50	2.50
12	11.000	11.000	11.000	11.17	10.08	9.85	9.63	112.60	110.04	107.48	2.40	2.45	2.51
12.5	10.000	10.000	10.500	11.67	9.17	8.96	9.25	106.95	104.52	107.92	2.52	2.58	2.50
12.5	10.088	10.298	10.504	11.67	9.25	9.26	9.25	107.97	108.00	107.97	2.50	2.50	2.50
12.5	10.500	10.500	11.000	11.67	9.67	9.46	9.63	112.78	110.35	112.29	2.39	2.45	2.40
13	9.500	9.500	10.000	12.13	8.75	8.56	8.75	106.10	103.82	106.10	2.54	2.60	2.54
13	9.657	9.845	10.157	12.13	8.91	8.91	8.91	108.00	108.00	108.00	2.50	2.50	2.50
13	10.000	10.000	10.500	12.13	9.17	8.96	9.25	111.15	108.62	112.16	2.43	2.49	2.41

Width Spacing 9 inches

Gross Length	Gross Width (1/2" Bar)	Gross Width (5/8" Bar)	Gross Width (3/4" Bar)	Net Length	Net Width			Net Area			Flow Velocity		
				1/2" Bar	1/2" Bar	5/8" Bar	3/4" Bar	1/2" Bar	5/8" Bar	3/4" Bar	1/2" Bar	5/8" Bar	3/4" Bar
10	12.000	12.500	12.500	9.25	11.25	11.56	11.38	104.07	106.96	105.22	2.59	2.52	2.57
10	12.426	12.613	12.800	9.25	11.68	11.68	11.68	108.01	108.00	108.00	2.50	2.50	2.50
10	12.500	13.000	13.000	9.25	11.75	11.98	11.78	108.69	110.86	108.98	2.48	2.44	2.48
10.5	11.500	11.500	12.000	9.75	10.81	10.64	10.88	105.43	103.75	106.03	2.56	2.60	2.55
10.5	11.764	11.936	12.202	9.75	11.08	11.08	11.08	108.00	108.00	108.01	2.50	2.50	2.50
10.5	12.000	12.000	12.500	9.75	11.25	11.06	11.38	109.69	107.86	110.91	2.46	2.50	2.43
11	11.000	11.000	11.500	10.21	10.31	10.14	10.47	105.28	103.52	106.87	2.56	2.61	2.53
11	11.267	11.439	11.611	10.21	10.58	10.58	10.58	108.01	108.01	108.00	2.50	2.50	2.50
11	11.500	11.500	12.000	10.21	10.81	10.64	10.88	110.38	108.63	111.02	2.45	2.49	2.43
11.5	10.500	10.500	11.000	10.71	9.88	9.72	9.97	105.75	104.07	106.75	2.55	2.59	2.53
11.5	10.710	10.867	11.117	10.71	10.09	10.09	10.09	108.00	108.00	108.01	2.50	2.50	2.50
11.5	11.000	11.000	11.500	10.71	10.31	10.14	10.47	110.43	108.59	112.11	2.44	2.49	2.41
12	10.000	10.000	10.500	11.17	9.38	9.22	9.56	104.69	102.95	106.78	2.58	2.62	2.53
12	10.297	10.453	10.609	11.17	9.67	9.67	9.67	108.01	108.01	108.00	2.50	2.50	2.50
12	10.500	10.500	11.000	11.17	9.88	9.72	9.97	110.27	108.53	111.32	2.45	2.49	2.43
12.5	9.500	10.000	10.000	11.67	8.94	9.22	9.06	104.27	107.56	105.73	2.59	2.51	2.55
12.5	9.819	10.039	10.195	11.67	9.26	9.26	9.26	108.00	108.01	108.01	2.50	2.50	2.50
12.5	10.000	10.500	10.500	11.67	9.38	9.72	9.56	109.38	113.39	111.57	2.47	2.38	2.42
13	9.000	9.500	9.500	12.13	8.44	8.80	8.66	102.31	106.67	104.96	2.64	2.53	2.57
13	9.470	9.610	9.751	12.13	8.91	8.91	8.91	108.01	108.00	108.00	2.50	2.50	2.50
13	9.500	10.000	10.000	12.13	8.94	9.22	9.06	108.37	111.78	109.89	2.49	2.42	2.46

Trashrack Hydraulic Evaluation - Formulas

	A	B	C	D	E	F
1	Calculated Flow	270	cfs	Length Spacing	12	inches
2	Target Velocity	2.5	fps	Width Spacing	12	inches
3						
4						
5	Width Spacing	12	inches			
6	Gross Length	Gross Width (1/2" Bar)	Gross Width (5/8" Bar)	Gross Width (3/4" Bar)	Net Length	
7					1/2" Bar	1/2" Bar
8	10	12	12	12	=A8-(TRUNC(A8)*0.5/12)-0.333	=B8-(TRUNC(B8)*0.5/12)
9	10	12.1752883521598	12.3003213644821	12.424923411702	=A9-(TRUNC(A9)*0.5/12)-0.333	=B9-(TRUNC(B9)*0.5/12)
10	10	12.5	12.5	12.5	=A10-(TRUNC(A10)*0.5/12)-0.333	=B10-(TRUNC(B10)*0.5/12)
11	10.5	11.5	11.5	11.5	=A11-(TRUNC(A11)*0.5/12)-0.333	=B11-(TRUNC(B11)*0.5/12)
12	10.5	11.5346849752113	11.6470715596391	11.7605585903526	=A12-(TRUNC(A12)*0.5/12)-0.333	=B12-(TRUNC(B12)*0.5/12)
13	10.5	12	12	12	=A13-(TRUNC(A13)*0.5/12)-0.333	=B13-(TRUNC(B13)*0.5/12)
14	11	10.5	11	11	=A14-(TRUNC(A14)*0.5/12)-0.333	=B14-(TRUNC(B14)*0.5/12)
15	11	10.9958561180885	11.1526035825413	11.2666015205735	=A15-(TRUNC(A15)*0.5/12)-0.333	=B15-(TRUNC(B15)*0.5/12)
16	11	11	11.5	11.5	=A16-(TRUNC(A16)*0.5/12)-0.333	=B16-(TRUNC(B16)*0.5/12)
17	11.5	10.5	10.5	10.5	=A17-(TRUNC(A17)*0.5/12)-0.333	=B17-(TRUNC(B17)*0.5/12)
18	11.5	10.5011584969889	10.6045960135607	10.707688236974	=A18-(TRUNC(A18)*0.5/12)-0.333	=B18-(TRUNC(B18)*0.5/12)
19	11.5	11	11	11	=A19-(TRUNC(A19)*0.5/12)-0.333	=B19-(TRUNC(B19)*0.5/12)
20	12	10	10	10	=A20-(TRUNC(A20)*0.5/12)-0.333	=B20-(TRUNC(B20)*0.5/12)
21	12	10.0881287937243	10.1903545243377	10.2962309391522	=A21-(TRUNC(A21)*0.5/12)-0.333	=B21-(TRUNC(B21)*0.5/12)
22	12	10.5	10.5	10.5	=A22-(TRUNC(A22)*0.5/12)-0.333	=B22-(TRUNC(B22)*0.5/12)
23	12.5	9.5	9.5	9.5	=A23-(TRUNC(A23)*0.5/12)-0.333	=B23-(TRUNC(B23)*0.5/12)
24	12.5	9.63201338948855	9.72570837190204	9.82057254125977	=A24-(TRUNC(A24)*0.5/12)-0.333	=B24-(TRUNC(B24)*0.5/12)
25	12.5	10	10	10	=A25-(TRUNC(A25)*0.5/12)-0.333	=B25-(TRUNC(B25)*0.5/12)
26	13	9	9	9	=A26-(TRUNC(A26)*0.5/12)-0.333	=B26-(TRUNC(B26)*0.5/12)
27	13	9.27974022544283	9.37322125356125	9.46690844444445	=A27-(TRUNC(A27)*0.5/12)-0.333	=B27-(TRUNC(B27)*0.5/12)
28	13	9.5	9.5	9.5	=A28-(TRUNC(A28)*0.5/12)-0.333	=B28-(TRUNC(B28)*0.5/12)
29						
30	Width Spacing	6	inches			
31	Gross Length	Gross Width (1/2" Bar)	Gross Width (5/8" Bar)	Gross Width (3/4" Bar)	Net Length	
32					1/2" Bar	1/2" Bar
33	10	12.5	12.5	13	=A33-(TRUNC(A33)*0.5/12)-0.333	=B33-2*(TRUNC(B33)*0.5/12)
34	10	12.6755858345956	12.9255986855875	13.3002844973717	=A34-(TRUNC(A34)*0.5/12)-0.333	=B34-2*(TRUNC(B34)*0.5/12)
35	10	13	13	13.5	=A35-(TRUNC(A35)*0.5/12)-0.333	=B35-2*(TRUNC(B35)*0.5/12)
36	10.5	12	12	12.5	=A36-(TRUNC(A36)*0.5/12)-0.333	=B36-2*(TRUNC(B36)*0.5/12)
37	10.5	12.0766016211541	12.3264440722632	12.5734950507849	=A37-(TRUNC(A37)*0.5/12)-0.333	=B37-2*(TRUNC(B37)*0.5/12)
38	10.5	12.5	12.5	13	=A38-(TRUNC(A38)*0.5/12)-0.333	=B38-2*(TRUNC(B38)*0.5/12)
39	11	11	11.5	11.5	=A39-(TRUNC(A39)*0.5/12)-0.333	=B39-2*(TRUNC(B39)*0.5/12)
40	11	11.4961937219005	11.7253698474321	11.9529267714878	=A40-(TRUNC(A40)*0.5/12)-0.333	=B40-2*(TRUNC(B40)*0.5/12)
41	11	11.5	12	12	=A41-(TRUNC(A41)*0.5/12)-0.333	=B41-2*(TRUNC(B41)*0.5/12)
42	11.5	10.5	11	11	=A42-(TRUNC(A42)*0.5/12)-0.333	=B42-2*(TRUNC(B42)*0.5/12)

Trashrack Hydraulic Evaluation - Formulas

	A	B	C	D	E	F
43	11.5	10.9188762806629	11.2309918691599	11.4573774823384	=A43-(TRUNC(A43)*0.5/12)-0.333	=B43-2*(TRUNC(B43)*0.5/12)
44	11.5	11	11.5	11.5	=A44-(TRUNC(A44)*0.5/12)-0.333	=B44-2*(TRUNC(B44)*0.5/12)
45	12	10.5	10.5	10.5	=A45-(TRUNC(A45)*0.5/12)-0.333	=B45-2*(TRUNC(B45)*0.5/12)
46	12	10.5049451828119	10.7132899285209	10.9202006311009	=A46-(TRUNC(A46)*0.5/12)-0.333	=B46-2*(TRUNC(B46)*0.5/12)
47	12	11	11	11	=A47-(TRUNC(A47)*0.5/12)-0.333	=B47-2*(TRUNC(B47)*0.5/12)
48	12.5	10	10	10.5	=A48-(TRUNC(A48)*0.5/12)-0.333	=B48-2*(TRUNC(B48)*0.5/12)
49	12.5	10.088057849055	10.2984949668913	10.504436687938	=A49-(TRUNC(A49)*0.5/12)-0.333	=B49-2*(TRUNC(B49)*0.5/12)
50	12.5	10.5	10.5	11	=A50-(TRUNC(A50)*0.5/12)-0.333	=B50-2*(TRUNC(B50)*0.5/12)
51	13	9.5	9.5	10	=A51-(TRUNC(A51)*0.5/12)-0.333	=B51-2*(TRUNC(B51)*0.5/12)
52	13	9.65722929345638	9.84473911656889	10.1570399228774	=A52-(TRUNC(A52)*0.5/12)-0.333	=B52-2*(TRUNC(B52)*0.5/12)
53	13	10	10	10.5	=A53-(TRUNC(A53)*0.5/12)-0.333	=B53-2*(TRUNC(B53)*0.5/12)
54						
55	Width Spacing	9	inches			
56	Gross Length	Gross Width (1/2" Bar)	Gross Width (5/8" Bar)	Gross Width (3/4" Bar)	Net Length	
57					1/2" Bar	1/2" Bar
58	10	12	12.5	12.5	=A58-(TRUNC(A58)*0.5/12)-0.333	=B58-1.5*(TRUNC(B58)*0.5/12)
59	10	12.425959046389	12.6128309266918	12.8004052091869	=A59-(TRUNC(A59)*0.5/12)-0.333	=B59-1.5*(TRUNC(B59)*0.5/12)
60	10	12.5	13	13	=A60-(TRUNC(A60)*0.5/12)-0.333	=B60-1.5*(TRUNC(B60)*0.5/12)
61	10.5	11.5	11.5	12	=A61-(TRUNC(A61)*0.5/12)-0.333	=B61-1.5*(TRUNC(B61)*0.5/12)
62	10.5	11.7640892956478	11.9360208423802	12.2020880190288	=A62-(TRUNC(A62)*0.5/12)-0.333	=B62-1.5*(TRUNC(B62)*0.5/12)
63	10.5	12	12	12.5	=A63-(TRUNC(A63)*0.5/12)-0.333	=B63-1.5*(TRUNC(B63)*0.5/12)
64	11	11	11	11.5	=A64-(TRUNC(A64)*0.5/12)-0.333	=B64-1.5*(TRUNC(B64)*0.5/12)
65	11	11.2673759875259	11.4392359402861	11.6106928368258	=A65-(TRUNC(A65)*0.5/12)-0.333	=B65-1.5*(TRUNC(B65)*0.5/12)
66	11	11.5	11.5	12	=A66-(TRUNC(A66)*0.5/12)-0.333	=B66-1.5*(TRUNC(B66)*0.5/12)
67	11.5	10.5	10.5	11	=A67-(TRUNC(A67)*0.5/12)-0.333	=B67-1.5*(TRUNC(B67)*0.5/12)
68	11.5	10.7103448639096	10.8666685976858	11.1170368902651	=A68-(TRUNC(A68)*0.5/12)-0.333	=B68-1.5*(TRUNC(B68)*0.5/12)
69	11.5	11	11	11.5	=A69-(TRUNC(A69)*0.5/12)-0.333	=B69-1.5*(TRUNC(B69)*0.5/12)
70	12	10	10	10.5	=A70-(TRUNC(A70)*0.5/12)-0.333	=B70-1.5*(TRUNC(B70)*0.5/12)
71	12	10.296922996667	10.4531595150718	10.6091036694445	=A71-(TRUNC(A71)*0.5/12)-0.333	=B71-1.5*(TRUNC(B71)*0.5/12)
72	12	10.5	10.5	11	=A72-(TRUNC(A72)*0.5/12)-0.333	=B72-1.5*(TRUNC(B72)*0.5/12)
73	12.5	9.5	10	10	=A73-(TRUNC(A73)*0.5/12)-0.333	=B73-1.5*(TRUNC(B73)*0.5/12)
74	12.5	9.81945055453919	10.0385927634692	10.1948377811196	=A74-(TRUNC(A74)*0.5/12)-0.333	=B74-1.5*(TRUNC(B74)*0.5/12)
75	12.5	10	10.5	10.5	=A75-(TRUNC(A75)*0.5/12)-0.333	=B75-1.5*(TRUNC(B75)*0.5/12)
76	13	9	9.5	9.5	=A76-(TRUNC(A76)*0.5/12)-0.333	=B76-1.5*(TRUNC(B76)*0.5/12)
77	13	9.46999297788243	9.61025635375202	9.75103438202501	=A77-(TRUNC(A77)*0.5/12)-0.333	=B77-1.5*(TRUNC(B77)*0.5/12)
78	13	9.5	10	10	=A78-(TRUNC(A78)*0.5/12)-0.333	=B78-1.5*(TRUNC(B78)*0.5/12)

Trashrack Hydraulic Evaluation - Formulas

	G	H	I	J	K	L	M	N
1								
2								
3								
4								
5								
6	Net Width		Net Area			Flow Velocity		
7	5/8" Bar	3/4" Bar	1/2" Bar	5/8" Bar	3/4" Bar	1/2" Bar	5/8" Bar	3/4" Bar
8	=C8-(TRUNC(C8)*0.625/12)	=D8-(TRUNC(D8)*0.75/12)	=F8*E8	=G8*E8	=H8*E8	=$B$1/I8	=$B$1/J8	=$B$1/K8
9	=C9-(TRUNC(C9)*0.625/12)	=D9-(TRUNC(D9)*0.75/12)	=F9*E9	=G9*E9	=H9*E9	=$B$1/I9	=$B$1/J9	=$B$1/K9
10	=C10-(TRUNC(C10)*0.625/12)	=D10-(TRUNC(D10)*0.75/12)	=F10*E10	=G10*E10	=H10*E10	=$B$1/I10	=$B$1/J10	=$B$1/K10
11	=C11-(TRUNC(C11)*0.625/12)	=D11-(TRUNC(D11)*0.75/12)	=F11*E11	=G11*E11	=H11*E11	=$B$1/I11	=$B$1/J11	=$B$1/K11
12	=C12-(TRUNC(C12)*0.625/12)	=D12-(TRUNC(D12)*0.75/12)	=F12*E12	=G12*E12	=H12*E12	=$B$1/I12	=$B$1/J12	=$B$1/K12
13	=C13-(TRUNC(C13)*0.625/12)	=D13-(TRUNC(D13)*0.75/12)	=F13*E13	=G13*E13	=H13*E13	=$B$1/I13	=$B$1/J13	=$B$1/K13
14	=C14-(TRUNC(C14)*0.625/12)	=D14-(TRUNC(D14)*0.75/12)	=F14*E14	=G14*E14	=H14*E14	=$B$1/I14	=$B$1/J14	=$B$1/K14
15	=C15-(TRUNC(C15)*0.625/12)	=D15-(TRUNC(D15)*0.75/12)	=F15*E15	=G15*E15	=H15*E15	=$B$1/I15	=$B$1/J15	=$B$1/K15
16	=C16-(TRUNC(C16)*0.625/12)	=D16-(TRUNC(D16)*0.75/12)	=F16*E16	=G16*E16	=H16*E16	=$B$1/I16	=$B$1/J16	=$B$1/K16
17	=C17-(TRUNC(C17)*0.625/12)	=D17-(TRUNC(D17)*0.75/12)	=F17*E17	=G17*E17	=H17*E17	=$B$1/I17	=$B$1/J17	=$B$1/K17
18	=C18-(TRUNC(C18)*0.625/12)	=D18-(TRUNC(D18)*0.75/12)	=F18*E18	=G18*E18	=H18*E18	=$B$1/I18	=$B$1/J18	=$B$1/K18
19	=C19-(TRUNC(C19)*0.625/12)	=D19-(TRUNC(D19)*0.75/12)	=F19*E19	=G19*E19	=H19*E19	=$B$1/I19	=$B$1/J19	=$B$1/K19
20	=C20-(TRUNC(C20)*0.625/12)	=D20-(TRUNC(D20)*0.75/12)	=F20*E20	=G20*E20	=H20*E20	=$B$1/I20	=$B$1/J20	=$B$1/K20
21	=C21-(TRUNC(C21)*0.625/12)	=D21-(TRUNC(D21)*0.75/12)	=F21*E21	=G21*E21	=H21*E21	=$B$1/I21	=$B$1/J21	=$B$1/K21
22	=C22-(TRUNC(C22)*0.625/12)	=D22-(TRUNC(D22)*0.75/12)	=F22*E22	=G22*E22	=H22*E22	=$B$1/I22	=$B$1/J22	=$B$1/K22
23	=C23-(TRUNC(C23)*0.625/12)	=D23-(TRUNC(D23)*0.75/12)	=F23*E23	=G23*E23	=H23*E23	=$B$1/I23	=$B$1/J23	=$B$1/K23
24	=C24-(TRUNC(C24)*0.625/12)	=D24-(TRUNC(D24)*0.75/12)	=F24*E24	=G24*E24	=H24*E24	=$B$1/I24	=$B$1/J24	=$B$1/K24
25	=C25-(TRUNC(C25)*0.625/12)	=D25-(TRUNC(D25)*0.75/12)	=F25*E25	=G25*E25	=H25*E25	=$B$1/I25	=$B$1/J25	=$B$1/K25
26	=C26-(TRUNC(C26)*0.625/12)	=D26-(TRUNC(D26)*0.75/12)	=F26*E26	=G26*E26	=H26*E26	=$B$1/I26	=$B$1/J26	=$B$1/K26
27	=C27-(TRUNC(C27)*0.625/12)	=D27-(TRUNC(D27)*0.75/12)	=F27*E27	=G27*E27	=H27*E27	=$B$1/I27	=$B$1/J27	=$B$1/K27
28	=C28-(TRUNC(C28)*0.625/12)	=D28-(TRUNC(D28)*0.75/12)	=F28*E28	=G28*E28	=H28*E28	=$B$1/I28	=$B$1/J28	=$B$1/K28
29								
30								
31	Net Width		Net Area			Flow Velocity		
32	5/8" Bar	3/4" Bar	1/2" Bar	5/8" Bar	3/4" Bar	1/2" Bar	5/8" Bar	3/4" Bar
33	=C33-2*(TRUNC(C33)*0.625/12)	=D33-2*(TRUNC(D33)*0.75/12)	=F33*E33	=G33*E33	=H33*E33	=$B$1/I33	=$B$1/J33	=$B$1/K33
34	=C34-2*(TRUNC(C34)*0.625/12)	=D34-2*(TRUNC(D34)*0.75/12)	=F34*E34	=G34*E34	=H34*E34	=$B$1/I34	=$B$1/J34	=$B$1/K34
35	=C35-2*(TRUNC(C35)*0.625/12)	=D35-2*(TRUNC(D35)*0.75/12)	=F35*E35	=G35*E35	=H35*E35	=$B$1/I35	=$B$1/J35	=$B$1/K35
36	=C36-2*(TRUNC(C36)*0.625/12)	=D36-2*(TRUNC(D36)*0.75/12)	=F36*E36	=G36*E36	=H36*E36	=$B$1/I36	=$B$1/J36	=$B$1/K36
37	=C37-2*(TRUNC(C37)*0.625/12)	=D37-2*(TRUNC(D37)*0.75/12)	=F37*E37	=G37*E37	=H37*E37	=$B$1/I37	=$B$1/J37	=$B$1/K37
38	=C38-2*(TRUNC(C38)*0.625/12)	=D38-2*(TRUNC(D38)*0.75/12)	=F38*E38	=G38*E38	=H38*E38	=$B$1/I38	=$B$1/J38	=$B$1/K38
39	=C39-2*(TRUNC(C39)*0.625/12)	=D39-2*(TRUNC(D39)*0.75/12)	=F39*E39	=G39*E39	=H39*E39	=$B$1/I39	=$B$1/J39	=$B$1/K39
40	=C40-2*(TRUNC(C40)*0.625/12)	=D40-2*(TRUNC(D40)*0.75/12)	=F40*E40	=G40*E40	=H40*E40	=$B$1/I40	=$B$1/J40	=$B$1/K40
41	=C41-2*(TRUNC(C41)*0.625/12)	=D41-2*(TRUNC(D41)*0.75/12)	=F41*E41	=G41*E41	=H41*E41	=$B$1/I41	=$B$1/J41	=$B$1/K41
42	=C42-2*(TRUNC(C42)*0.625/12)	=D42-2*(TRUNC(D42)*0.75/12)	=F42*E42	=G42*E42	=H42*E42	=$B$1/I42	=$B$1/J42	=$B$1/K42

Trashrack Hydraulic Evaluation - Formulas

	G	H	I	J	K	L	M	N
43	=C43-2*(TRUNC(C43)*0.625/12)	=D43-2*(TRUNC(D43)*0.75/12)	=F43*E43	=G43*E43	=H43*E43	=$B$1/I43	=$B$1/J43	=$B$1/K43
44	=C44-2*(TRUNC(C44)*0.625/12)	=D44-2*(TRUNC(D44)*0.75/12)	=F44*E44	=G44*E44	=H44*E44	=$B$1/I44	=$B$1/J44	=$B$1/K44
45	=C45-2*(TRUNC(C45)*0.625/12)	=D45-2*(TRUNC(D45)*0.75/12)	=F45*E45	=G45*E45	=H45*E45	=$B$1/I45	=$B$1/J45	=$B$1/K45
46	=C46-2*(TRUNC(C46)*0.625/12)	=D46-2*(TRUNC(D46)*0.75/12)	=F46*E46	=G46*E46	=H46*E46	=$B$1/I46	=$B$1/J46	=$B$1/K46
47	=C47-2*(TRUNC(C47)*0.625/12)	=D47-2*(TRUNC(D47)*0.75/12)	=F47*E47	=G47*E47	=H47*E47	=$B$1/I47	=$B$1/J47	=$B$1/K47
48	=C48-2*(TRUNC(C48)*0.625/12)	=D48-2*(TRUNC(D48)*0.75/12)	=F48*E48	=G48*E48	=H48*E48	=$B$1/I48	=$B$1/J48	=$B$1/K48
49	=C49-2*(TRUNC(C49)*0.625/12)	=D49-2*(TRUNC(D49)*0.75/12)	=F49*E49	=G49*E49	=H49*E49	=$B$1/I49	=$B$1/J49	=$B$1/K49
50	=C50-2*(TRUNC(C50)*0.625/12)	=D50-2*(TRUNC(D50)*0.75/12)	=F50*E50	=G50*E50	=H50*E50	=$B$1/I50	=$B$1/J50	=$B$1/K50
51	=C51-2*(TRUNC(C51)*0.625/12)	=D51-2*(TRUNC(D51)*0.75/12)	=F51*E51	=G51*E51	=H51*E51	=$B$1/I51	=$B$1/J51	=$B$1/K51
52	=C52-2*(TRUNC(C52)*0.625/12)	=D52-2*(TRUNC(D52)*0.75/12)	=F52*E52	=G52*E52	=H52*E52	=$B$1/I52	=$B$1/J52	=$B$1/K52
53	=C53-2*(TRUNC(C53)*0.625/12)	=D53-2*(TRUNC(D53)*0.75/12)	=F53*E53	=G53*E53	=H53*E53	=$B$1/I53	=$B$1/J53	=$B$1/K53
54								
55								
56	**Net Width**		**Net Area**			**Flow Velocity**		
57	**5/8" Bar**	**3/4" Bar**	**1/2" Bar**	**5/8" Bar**	**3/4" Bar**	**1/2" Bar**	**5/8" Bar**	**3/4" Bar**
58	=C58-1.5*(TRUNC(C58)*0.625/12)	=D58-1.5*(TRUNC(D58)*0.75/12)	=F58*E58	=G58*E58	=H58*E58	=$B$1/I58	=$B$1/J58	=$B$1/K58
59	=C59-1.5*(TRUNC(C59)*0.625/12)	=D59-1.5*(TRUNC(D59)*0.75/12)	=F59*E59	=G59*E59	=H59*E59	=$B$1/I59	=$B$1/J59	=$B$1/K59
60	=C60-1.5*(TRUNC(C60)*0.625/12)	=D60-1.5*(TRUNC(D60)*0.75/12)	=F60*E60	=G60*E60	=H60*E60	=$B$1/I60	=$B$1/J60	=$B$1/K60
61	=C61-1.5*(TRUNC(C61)*0.625/12)	=D61-1.5*(TRUNC(D61)*0.75/12)	=F61*E61	=G61*E61	=H61*E61	=$B$1/I61	=$B$1/J61	=$B$1/K61
62	=C62-1.5*(TRUNC(C62)*0.625/12)	=D62-1.5*(TRUNC(D62)*0.75/12)	=F62*E62	=G62*E62	=H62*E62	=$B$1/I62	=$B$1/J62	=$B$1/K62
63	=C63-1.5*(TRUNC(C63)*0.625/12)	=D63-1.5*(TRUNC(D63)*0.75/12)	=F63*E63	=G63*E63	=H63*E63	=$B$1/I63	=$B$1/J63	=$B$1/K63
64	=C64-1.5*(TRUNC(C64)*0.625/12)	=D64-1.5*(TRUNC(D64)*0.75/12)	=F64*E64	=G64*E64	=H64*E64	=$B$1/I64	=$B$1/J64	=$B$1/K64
65	=C65-1.5*(TRUNC(C65)*0.625/12)	=D65-1.5*(TRUNC(D65)*0.75/12)	=F65*E65	=G65*E65	=H65*E65	=$B$1/I65	=$B$1/J65	=$B$1/K65
66	=C66-1.5*(TRUNC(C66)*0.625/12)	=D66-1.5*(TRUNC(D66)*0.75/12)	=F66*E66	=G66*E66	=H66*E66	=$B$1/I66	=$B$1/J66	=$B$1/K66
67	=C67-1.5*(TRUNC(C67)*0.625/12)	=D67-1.5*(TRUNC(D67)*0.75/12)	=F67*E67	=G67*E67	=H67*E67	=$B$1/I67	=$B$1/J67	=$B$1/K67
68	=C68-1.5*(TRUNC(C68)*0.625/12)	=D68-1.5*(TRUNC(D68)*0.75/12)	=F68*E68	=G68*E68	=H68*E68	=$B$1/I68	=$B$1/J68	=$B$1/K68
69	=C69-1.5*(TRUNC(C69)*0.625/12)	=D69-1.5*(TRUNC(D69)*0.75/12)	=F69*E69	=G69*E69	=H69*E69	=$B$1/I69	=$B$1/J69	=$B$1/K69
70	=C70-1.5*(TRUNC(C70)*0.625/12)	=D70-1.5*(TRUNC(D70)*0.75/12)	=F70*E70	=G70*E70	=H70*E70	=$B$1/I70	=$B$1/J70	=$B$1/K70
71	=C71-1.5*(TRUNC(C71)*0.625/12)	=D71-1.5*(TRUNC(D71)*0.75/12)	=F71*E71	=G71*E71	=H71*E71	=$B$1/I71	=$B$1/J71	=$B$1/K71
72	=C72-1.5*(TRUNC(C72)*0.625/12)	=D72-1.5*(TRUNC(D72)*0.75/12)	=F72*E72	=G72*E72	=H72*E72	=$B$1/I72	=$B$1/J72	=$B$1/K72
73	=C73-1.5*(TRUNC(C73)*0.625/12)	=D73-1.5*(TRUNC(D73)*0.75/12)	=F73*E73	=G73*E73	=H73*E73	=$B$1/I73	=$B$1/J73	=$B$1/K73
74	=C74-1.5*(TRUNC(C74)*0.625/12)	=D74-1.5*(TRUNC(D74)*0.75/12)	=F74*E74	=G74*E74	=H74*E74	=$B$1/I74	=$B$1/J74	=$B$1/K74
75	=C75-1.5*(TRUNC(C75)*0.625/12)	=D75-1.5*(TRUNC(D75)*0.75/12)	=F75*E75	=G75*E75	=H75*E75	=$B$1/I75	=$B$1/J75	=$B$1/K75
76	=C76-1.5*(TRUNC(C76)*0.625/12)	=D76-1.5*(TRUNC(D76)*0.75/12)	=F76*E76	=G76*E76	=H76*E76	=$B$1/I76	=$B$1/J76	=$B$1/K76
77	=C77-1.5*(TRUNC(C77)*0.625/12)	=D77-1.5*(TRUNC(D77)*0.75/12)	=F77*E77	=G77*E77	=H77*E77	=$B$1/I77	=$B$1/J77	=$B$1/K77
78	=C78-1.5*(TRUNC(C78)*0.625/12)	=D78-1.5*(TRUNC(D78)*0.75/12)	=F78*E78	=G78*E78	=H78*E78	=$B$1/I78	=$B$1/J78	=$B$1/K78

Longitudinal Bar Deflection

Determine Bar Required

γ water (pcf)	62.4
Height (ft)	17
Bar Length (ft)	10
Bar Length (in)	120
E (ksi)	29000

Bar Dimensions

width (in)	0.5
height (in)	6.25

w = 1060.8 plf
88.4 lb/in

Deflection Check

Ix = 10.17253 in^4
δ = **0.809076** in **Very Small, OK**

Longitudinal Bar Deflection Formulas

	A	B	C	D	E
1	**Determine Bar Re**				
2	γ water (pcf)	62.4		Bar Dimensions	
3	Height (ft)	17		width (in)	0.5
4	Bar Length (ft)	10		height (in)	6.25
5	Bar Length (in)	=12*B4			
6	E (ksi)	29000			
7					
8					
9	w =	=B2*B3	plf		
10		=B9/12	lb/in		
11					
12	**Deflection Check**				
13	Ix =	=E3*E4^3/12	in^4		
14	δ =	**=(5*B10*B5^4)/(384*B6*1000*B13)**	in	**Very Small, OK**	

Transverse Bar Sizing

Determine Bar Required

γ water (pcf)	62.4	Bar Dimensions	
Height (ft)	17	width (in)	0.75
Bar Length (spacing) (ft)	1	height (in)	0.75
Bar Length (in)	12		
E (ksi)	29000		

w =	1060.8	plf	
	88.4	lb/in	
Mu =	132.6	lb-ft	
	1591.2	lb-in	
Sx =	0.070313	in^3	
f_b =	**22630.4**	psi	**<50,000psi - OK**

Deflection Check

Ix =	0.026367	in^4	
δ =	**0.031214**	in	**Very Small, OK**

Weld Check

P = the total load on the longitudinal to transverse welded connection

P =	1060.8	lbs	
Lw =	2.5	inches	-Length of weld

Assume 1/8" fillet weld (smallest weld) and lowest tensile strength of weld (60ksi)

Rw =	1.59	kip/in	
Rtot =	**3975**	lbs	**>1060.8, therefore OK**

Transverse Bar Formulas

	A	B	C	D	E
1	**Determine Bar**				
2	γ water (pcf)	62.4		Bar Dimensions	
3	Height (ft)	17		width (in)	0.75
4	Bar Length (spacing) (ft)	1		height (in)	0.75
5	Bar Length (in)	=12*B4			
6	E (ksi)	29000			
7					
8					
9	w =	=B2*B3	plf		
10		=B9/12	lb/in		
11	Mu =	=B9*B4^2/8	lb-ft		
12		=B11*12	lb-in		
13	Sx =	=E3*E4^2/6	in^3		
14	f_b =	**=B12/B13**	psi	**<50,000psi - OK**	
15					
16	**Deflection Che**				
17	Ix =	=E3*E4^3/12	in^4		
18	δ =	**=(5*B10*B5^4)/(384*B6*1000*B17)**	in	**Very Small, OK**	
19					
20	**Weld Check**				
21	P = the total loa				
22	P =	=B2*B3*B4*B4	lbs		
23	Lw =	=E3*2+0.5*2	inches	-Length of weld	
24	Assume 1/8" fill				
25	Rw =	1.59	kip/in		
26	Rtot =	**=B23*B25*1000**	lbs	**>1060.8, therefore Ok**	

Column Loading Check

Column Loading Check

γ water (pcf)	62.4
Height (ft)	17
Bar Length (ft)	10
Bar Length (in)	120
E (ksi)	29000

Column Dimensions

width =	0.5	in
length =	6.25	in
height =	2.167	ft
area =	3.125	in^2
K =	0.5	column with fixed ends

Resultant Point Load

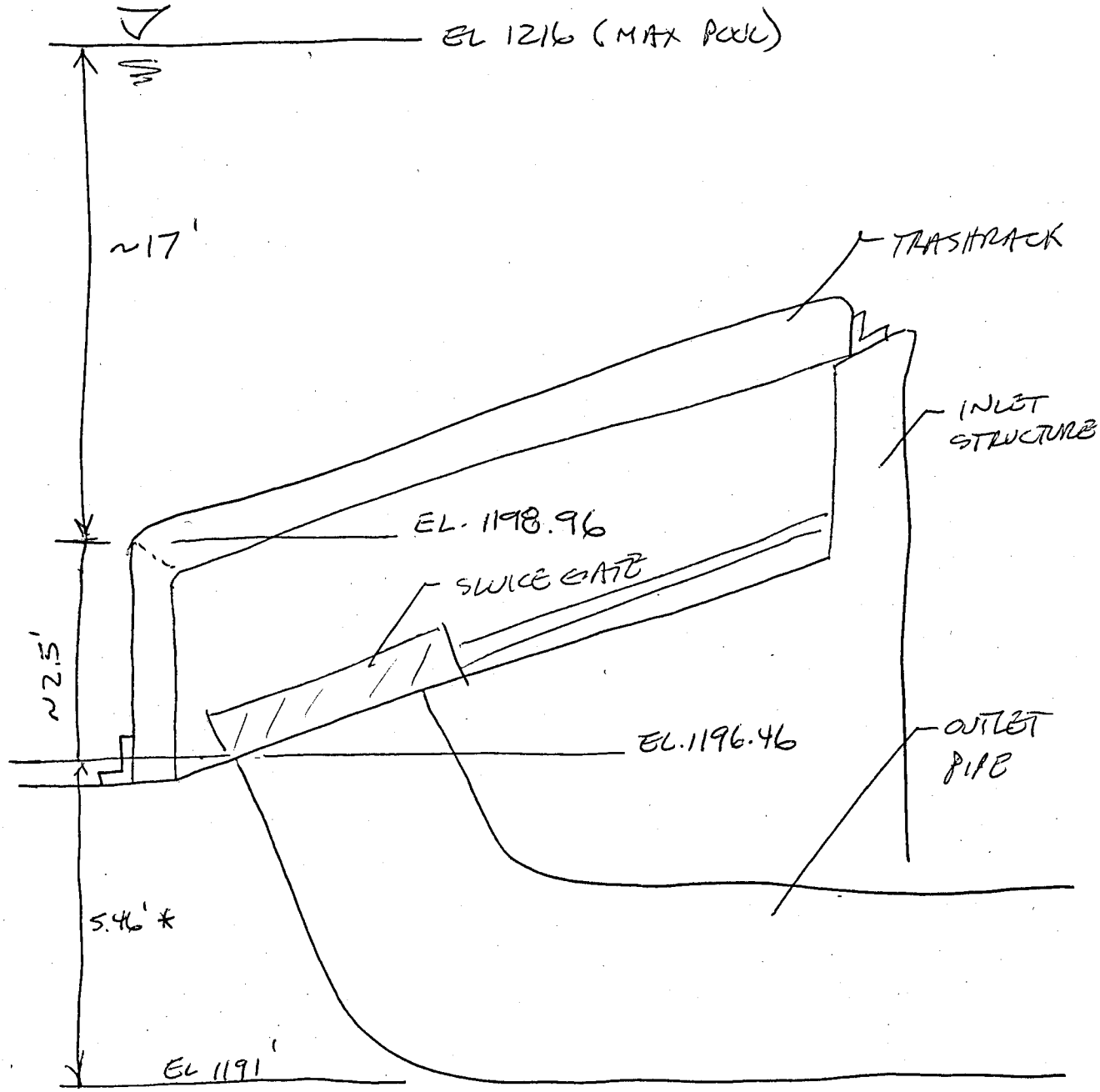
over Beam Span =	10608	lbs
Column Load =	5304	lbs
	5.304	kips
Ix =	10.17253	in^4
Iy =	0.065104	in^4
r_x =	1.80422	in
r_y =	**0.144338**	in
λ_c =	1.191207	
F_{cr} =	27.60815	ksi
Pn =	86.27548	kips
Pu =	**73.33416**	kips

Therefore, r_y controlling

> 5.304 kips, therefore OK

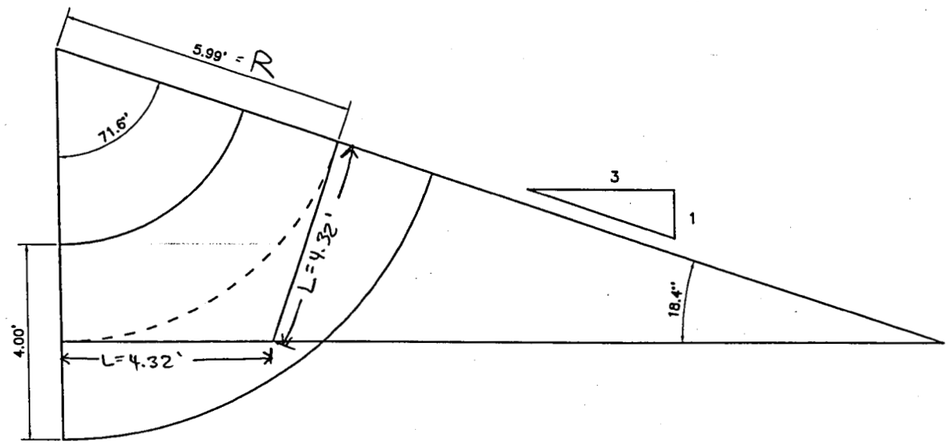
Column Loading Check - Formulas

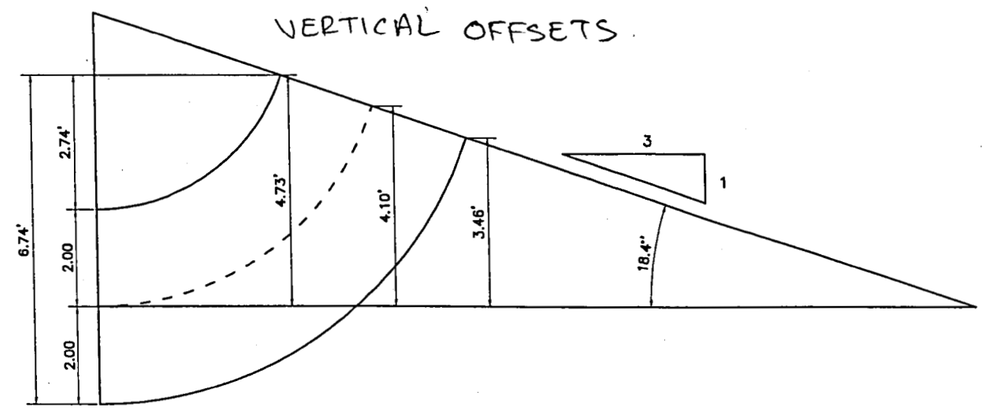
	A	B	C	D	E	F
1	**Column Loading Check**					
2	γ water (pcf)	62.4		Column Dime		
3	Height (ft)	17		width =	0.5	in
4	Bar Length (ft)	10		length =	6.25	in
5	Bar Length (in)	=12*B4		height =	2.167	ft
6	E (ksi)	29000		area =	=+E3*E4	in^2
7				K =	0.5	column with fixed ends
	Resultant Point Load					
8	over Beam Span =	=B2*B3*B4	lbs			
9	Column Load =	=B8/2	lbs			
10		=B9/1000	kips			
11	Ix =	=E3*E4^3/12	in^4			
12	Iy =	=E4*E3^3/12	in^4			
13	r_x =	=SQRT(B11/E6)	in			
14	r_y =	**=SQRT(B12/E6)**	in	**Therefore, r_y**		
15	λ_c =	=((E7*E5*12)/(B14*3.14))*SQRT(50/B6)				
16	F_{cr} =	=0.658^(B15^2)*50	ksi			
17	Pn =	=E6*B16	kips			
18	Pu =	**=0.85*B17**	kips	**> 5.304 kips,**		

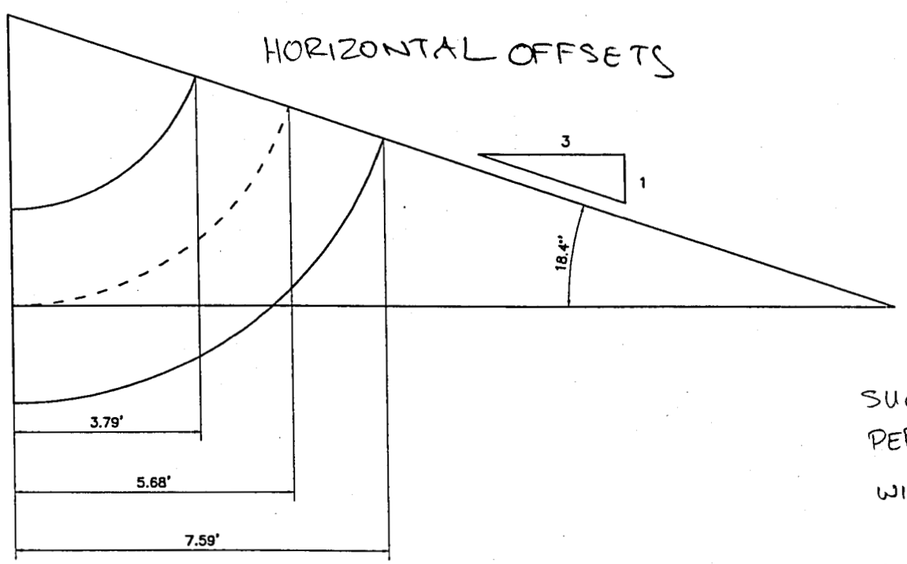


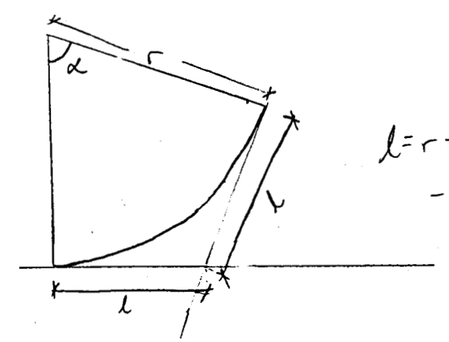
* DIMENSION GIVEN BY AMERON REEP MANUFACTURE
* ELEVATIONS SHOWN DO NOT INCLUDE SLUICE GATE BASE PLATE. THIS PLATE WOULD REDUCE THE 17' HEAD TO APPROXIMATELY 16.5 FEET.

HORIZONTAL AND VERTICAL OFFSETS FOR 48" ϕ RCP - WHITE TANKS









$l = r\tan\left(\frac{\alpha}{2}\right)$

- using $r = 4'$
$\alpha = 71.6°$

$l = (4')\tan\left(\frac{71.6}{2}\right)$

$l = 2.88'$

With a suggested safety factor of 1.5, $L = 1.5l$

$\therefore L = 4.32'$

$\therefore 4.32 = R\tan\left(\frac{71.6}{2}\right)$

$R = 5.99'$

SUGGESTED SAFETY FACTORS
PER TOM THOMAS, AMERON

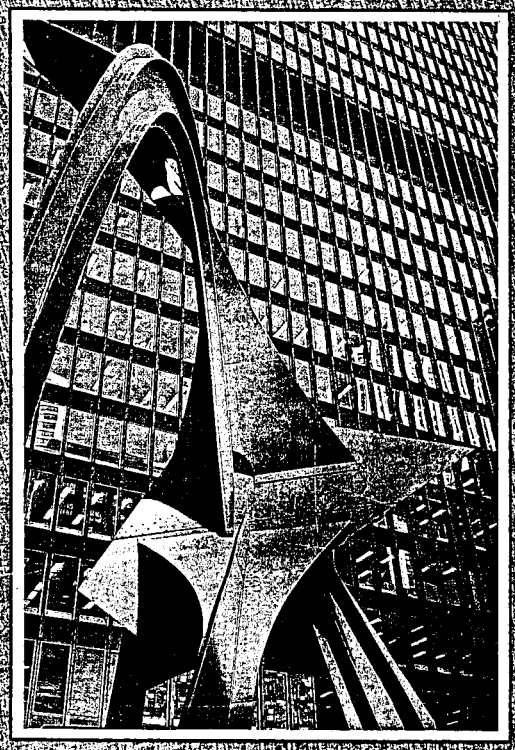
WITH SIGNIFICANT, CONTINUED LOADING
DUE TO HYDROSTATIC PRESSURE
S.F. = 2.5
FOR OUR APPLICATION (INTERMITTENT USE)
S.F. = 1.0 - 1.5

30

STRUCTURAL STEEL DESIGN

LRFD Method

SECOND EDITION



Jack C. McCormac

DISK INCLUDED

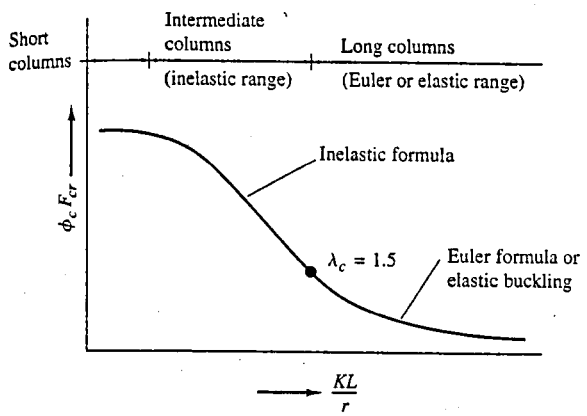


Figure 5-7

where F_e is the Euler stress $\pi^2E/(KL/r)^2$. Substituting this value for F_e we get the form of λ_c given in the LRFD Specification.

$$\lambda_c = \frac{KL}{r\pi}\sqrt{\frac{F_y}{E}} \qquad \text{(LRFD Equation 2-4)}$$

Both equations for F_{cr} include the estimated effects of residual stresses and initial out-of-straightness of the members. The inelastic formula that follows is an empirical or test result formula.

$$F_{cr} = (0.658^{\lambda_c^2})\, F_y \text{ for } \lambda_c \leq 1.5 \qquad \text{(LRFD Equation E2-2)}$$

The other equation is for elastic or Euler buckling and is the familiar Euler equation multiplied by 0.877 to estimate the effect of out-of-straightness.

$$F_{cr} = \left(\frac{0.877}{\lambda_c^2}\right) F_y \text{ for } \lambda_c > 1.5 \qquad \text{(LRFD Equation E2-3)}$$

These equations are represented graphically in Fig. 5-7.

After looking at these equations the reader might think that their use would be very tedious and time-consuming with a pocket calculator. Such calculations, however, rarely have to be made because the LRFD Manual provides computed $\phi_c F_{cr}$ values for steels with $F_y = 36$ ksi and 50 ksi for KL/r values from 1 to 200 and has shown the results in Tables 3-36 and 3-50 of Part 6 of the LRFD Manual. Furthermore the Manual has another table (Table 4) from which the user may obtain values for steels with any F_y values.

5-10 MAXIMUM SLENDERNESS RATIOS

In Part 6, Section B7, the LRFD states that compression members *preferably* should be designed with KL/r ratios not exceeding 200. The reader might note from LRFD Tables 3-36 and 3-50 that design stresses $\phi_c F_{cr}$ for KL/r values of

usually require the use of footings, keywalls and counterforts and drainage is properly located immediately downstream of these features. This drainage when properly designed can control piping and provide significant economies due to the effect on soil loads, uplift pressures, overturning forces and sliding stability.

Outlets

The choice of outlet is to be based on a careful consideration of all site and flow conditions that may affect operation and energy dissipation.

1. Cantilever outlet and plunge pools may be installed where their use:

   a. Does not create a piping hazard in the foundation of the structure.

   b. Is compatible with other conditions at the site.

   Plunge pools are to be designed to dissipate the energy and be stable. Unless the pool is to be in bedrock or very erosion resistant materials, riprap will be necessary to insure stability. Design Note 6, entitled, "Armored Scour Hole for Cantilever Outlet", is to be used for design.

   Cantilever outlets are to be supported on bents or piers and are to extend a minimum of 8 feet beyond the bents or piers. The bents are to be located downstream from the intersection of the downstream slope of the earth embankment with the grade line of the channel below the dam. They are to extend below the lowest elevation anticipated in the plunge pool. The invert of the cantilever outlet is to be at least 1 foot about the tailwater elevation at maximum discharge.

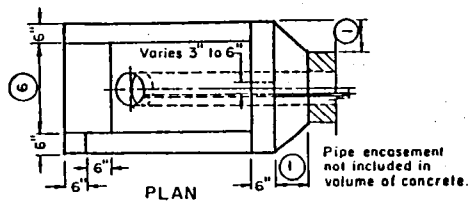
2. SAF basins may be used when there is adequate control of tailwater. Use TR-54 for structural design and NEH-14 for hydraulic design.

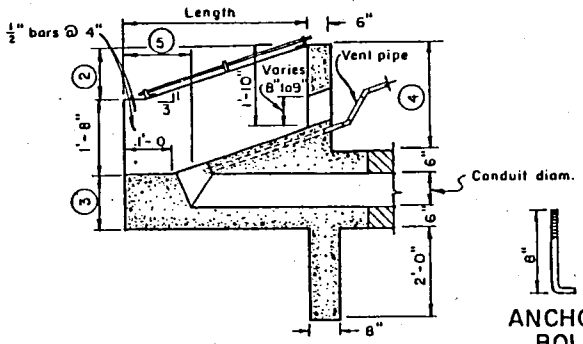
3. Impact basins may be used when positive measures are taken to prevent large debris from entering the conduit. TR-49 is to be used for hydraulic design.

Trash Racks

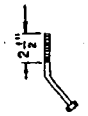
Trash racks are to be designed to provide positive protection against clogging of the spillway under any operating level. The average velocity of flow through a clean trash rack is not to exceed 2.5 feet per second under the full range of stage and discharge. Velocity is to be computed on the basis of the net area of opening through the rack.

If a reservoir outlet with a trash rack or a ported concrete riser is used to keep the sediment pool drained the trash rack or riser is to extend above the anticipated sediment elevation at the riser to provide

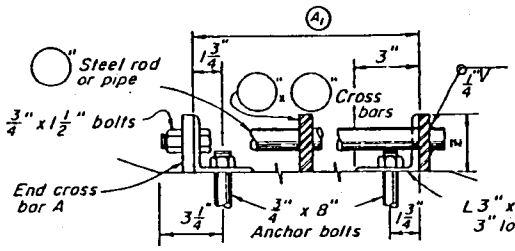




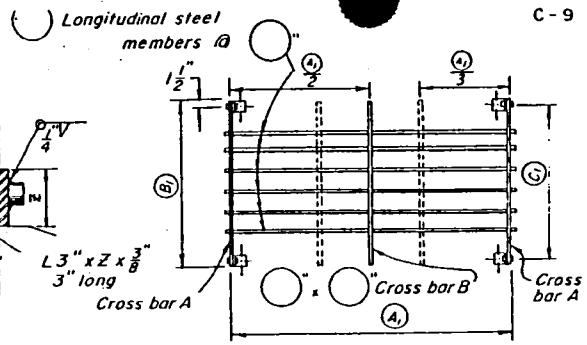
ANCHOR BOLT



ALT. ANCHOR BOLT



DETAILS



PLAN

TRASH RACK

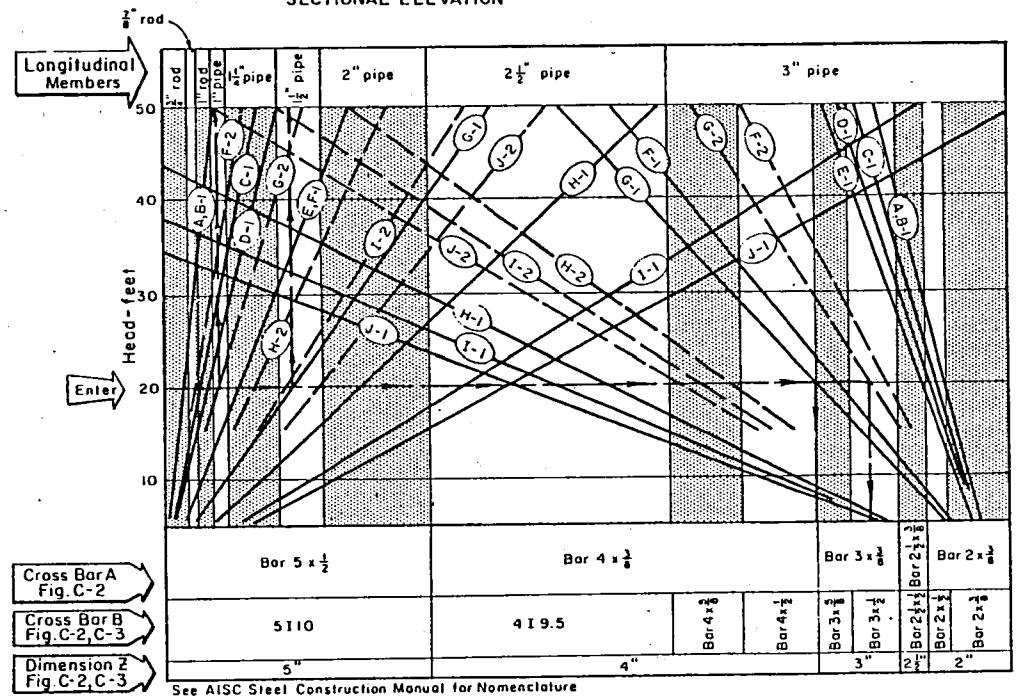
Not to Scale

Note:
When one intermediate bar is used place at center.
When two intermediate bars are used space at $\frac{A_1}{3}$.

Structure / Conduit Size / ITEM	INLET STRUCTURE DIMENSIONS									
	A	B	C	D	E	F	G	H	I	J
	8"	10"	12"	14"	16"	18"	20"	24"	30"	36"
1	8"	7"	6"	5"	4"	9"	8"	1'-0"	9"	6"
2	1'-2"	1'-2"	1'-4"	1'-6"	1'-8"	1'-8"	2'-0"	2'-6"	2'-10"	3'-0"
3	1'-2"	1'-2"	1'-6"	1'-8"	1'-8"	2'-0"	2'-0"	2'-6"	2'-6"	3'-0"
[1] 4 (Varies)	2'-4"	2'-2"	2'-6"	2'-8"	2'-8"	2'-10"	3'-0"	3'-8"	3'-6"	3'-8"
5	1'-6"	1'-7"	1'-9"	1'-10"	2'-0"	2'-0"	2'-2"	2'-2"	2'-4"	2'-10"
6	2'-0"	2'-0"	2'-0"	2'-0"	2'-0"	3'-0"	3'-0"	4'-0"	4'-0"	4'-0"
LENGTH	4'-0"	4'-0"	4'-6"	5'-0"	5'-6"	5'-6"	6'-6"	8'-0"	9'-0"	9'-6"
TRASH RACK A_1	3'-5 1/4"	3'-5 1/4"	3'-11 1/2"	4'-6"	5'-0 1/4"	5'-0 1/4"	6'-1"	7'-7 3/4"	8'-8 1/2"	9'-2 3/4"
TRASH RACK B_1	2'-9"	2'-9"	2'-9"	2'-9"	2'-9"	3'-9"	3'-9"	4'-9"	4'-9"	4'-9"
TRASH RACK C_1	2'-6"	2'-6"	2'-6"	2'-6"	2'-6"	3'-6"	3'-6"	4'-6"	4'-6"	4'-6"
BAR SPACING	4"c-c	4"c-c	6"c-c	6"c-c	8"c-c	9"c-c	10"c-c	10"c-c	12"c-c	12"c-c
[4] VOL. CONC. C.Y.	1.33	1.32	1.57	1.84	1.97	2.91	3.40	4.72	6.52	7.00
REIN. STEEL	109#	108#	127#	129#	144#	174#	209#	302#	328#	366#
STD. DWG. NO.	7-N-20465 (Suffixed by size letter) 2 sheets per each structure size									

[4] Volume of concrete using C.M.P. or steel pipe. See Table J-C1 for volumes using other types and sizes of pipe.

[1] If pipe diameter is different from that tabulated adjust dimension (4) to keep the total height of the inlet constant. (See discussion Section C-IV-A)



Example

Given: Structure size G
Head = 20 feet

Find: With one intermediate cross bar use line (G-1)
Longitudinal member = 1 1/2" pipe
Cross bar A = 4" x 3/8"; Cross bar B = 4" x 1/2"
Z = 4"
With two intermediate cross bars use line (G-2)
Longitudinal member = 1" pipe
Cross bar A = 3" x 3/8"; Two cross bars B = 3" x 1/2"
Z = 3"

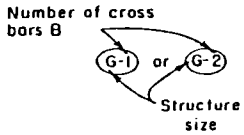


FIGURE C-2
INLET STRUCTURE
EWP Unit Portland, Oregon

APPENDIX I

CALCULATION PACKAGES – HYDRAULIC DESIGN

INDEX OF HYDRAULICS CALCULATION PACKAGES

(WHITE TANK FLOOD RETARDING STRUCTURE NO. 3 REMEDIATION DESIGN STUDY)

Index Number	Title
I-1	SITES MODELING FOR EMERGENCY SPILLWAY
I-2	OUTLET CHANNEL DESIGN DOWNSTREAM OF OUTLET STRUCTURES
I-3	RIPRAP SIZING FOR OUTLET CHANNEL

URS

CALCULATION PACKAGE NO. I-1

EXHIBIT 4.7-2

CALCULATION COVER SHEET

Client: FCDMC

Project Name: White Tanks FRS #3

Project/Calculation Number: 23443748

Title: SITES Modeling for Emergency Spillway

Total Number of Pages (including cover sheet):

Total Number of Computer Runs: 3

Prepared by: Tom Joseph

Date: 9/9/04

Checked by: Todd Ringsmuth

Date: 9/10/04

Description and Purpose:

This calculation includes SITES model input and outputs. Refer to design report text for descriptions. A detailed calculation package will be provided with the 100% submittal.

Design Basis/References/Assumptions

Remarks/Conclusions/Results:

Calculation Approved by: Todd Ringsmuth 9-10-04

Project Manager/Date

Revision No.:	Description of Revision:	Approved by:

Project Manager/Date

SITES
Holocene Input

```
SSEA      02/09/2002WT
*         White Tanks 72 hr Storm Event
HYD       9                    PMF Spillway
                .2
                32.4      32.4      32.4      32.3      32.3
                32.3      32.3      32.3      32.3      32.3
                32.3      32.3      32.3      32.3      32.3
                32.3      32.3      32.3      32.3      32.3
                32.3      32.4      32.4      32.5      32.5
                32.6      32.7      32.7      32.8      32.9
                33        33.1      33.2      33.4      33.5
                33.6      33.8      33.9      34.1      34.2
                34.4      34.5      34.7      34.9      35.1
                35.3      35.5      35.7      36        36.2
                36.4      36.7      36.9      37.1      37.4
                37.7      37.9      38.2      38.5      38.8
                39.2      39.5      39.8      40.1      40.4
                40.8      41.1      41.5      41.9      42.4
                42.8      43.3      43.7      44.2      44.7
                45.3      45.9      46.5      47.1      47.8
                48.4      49.1      49.9      50.6      51.4
                52.2      53.1      54        54.9      55.8
                57        58.4      60.3      62.3      64
                65.7      68        70        73        1255
                3171      7311      12583     17897     22347
                25135     26045     25467     24348     23297
                22268     21179     20055     18980     17995
                17036     16036     15085     14232     13431
                12634     11797     10953     10180     9509
                8928      8412      8001      7662      7354
                7067      6793      6537      6309      6109
                5925      5749      5582      5435      5306
                5186      5067      4949      4842      4747
                4653      4550      4440      4338      4239
                4108      3920      3690      3462      3259
                3078      2910      2754      2640      2570
                2499      2428      2356      2287      2222
                2158      2097      2037      1981      1928
                1877      1828      1782      1738      1698
                1661      1627      1594      1564      1537
                1514      1494      1474      1456      1439
                1424      1412      1402      1393      1385
                1375      1363      1349      1334      1322
                1311      1301      1290      1279      1269
                1260      1253      1247      1240      1233
                1225      1216      1205      1193      1182
                1171      1162      1152      1143      1135
                1127      1120      1113      1107      1102
                1096      1092      1088      1084      1080
                1075      1067      1058      1047      1037
                1028      1019      1011      1004      998
                992       986       979       973       967
                960       950       939       927       916
                906       896       887       879       870
                861       850       837       823       809
                795       782       770       760       750
                739       726       712       698       683
```

```
                670       657       646       635       624
                613       601       585       569       555
                542       530       517       505       494
                485       475       466       459       453
                445       435       422       409       396
                386       376       368       358       349
                340       331       324       319       314
                310       304       299       294       290
                287       286       285       282       280
                277       275       273       273       273
                273       271       270       268       266
                264       259       253       245       237
                229       221       213       206       198
                190       180       168       155       143
                131       120       109       99        90
                81        73        73        73        73
                72.9      72.9      72.9      72.9      72.9
                72.8      72.8      72.8      72.8      72.8
                72.7      72.7      72.7      72.7      72.7
                72.7      72.6      72.6      72.6      72.6
                72.6      72.5      72.5      72.5      72.5
                72.5      72.4      72.4      72.4      72.4
                72.4      72.3      72.3      72.3      72.3
                72.3      72.3      72.2      72.2      72.2
                72.2      72.2      72.1      72.1      72.1
                72.1      72.1      72        72        72
                72        72        71.9      71.9      71.9
ENDTABLE
POOLDATA  ELEV                                          1168
ASSURFACE 41
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ENDTABLE
ASDATA    41                          2
BTMWIDTH  FEET    850
ASMATERIAL
          1       10        0.008     20        110       0.001
ENDTABLE
ASCOORD   1       HOL       Y
          100     1203      109       1203      412.32    1202
          774.68  1201      974.24    1200      1153.2    1199
          1337.39 1197      1709.86   1195      2017.86   1190
          3133    1178      4398      1168
ENDTABLE
GRAPHICS  I
GO,HYD    L                           1
ENDJOB
ENDRUN
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Hdocave Output

```
1*******************************************************************************
 SSEA Xeq 09/09/2004   Spillway Integrity Analysis Program
      Ver 01.0.0                                Time 15:20:08

 ************************** 80-80 List of Input Data ***************************

 SSEA      02/09/2002WT
 *         White Tanks 72 hr Storm Event
 HYD       9                    PMF Spillway
                    .2
                    32.4      32.4      32.4      32.3      32.3
                    32.3      32.3      32.3      32.3      32.3
                    32.3      32.3      32.3      32.3      32.3
                    32.3      32.3      32.3      32.3      32.3
                    32.3      32.4      32.4      32.5      32.5
                    32.6      32.7      32.7      32.8      32.9
                    33        33.1      33.2      33.4      33.5
                    33.6      33.8      33.9      34.1      34.2
                    34.4      34.5      34.7      34.9      35.1
                    35.3      35.5      35.7      36        36.2
                    36.4      36.7      36.9      37.1      37.4
                    37.7      37.9      38.2      38.5      38.8
                    39.2      39.5      39.8      40.1      40.4
                    40.8      41.1      41.5      41.9      42.4
                    42.8      43.3      43.7      44.2      44.7
                    45.3      45.9      46.5      47.1      47.8
                    48.4      49.1      49.9      50.6      51.4
                    52.2      53.1      54        54.9      55.8
                    57        58.4      60.3      62.3      64
                    65.7      68        70        73        1255
                    3171      7311      12583     17897     22347
                    25135     26045     25467     24348     23297
                    22268     21179     20055     18980     17995
                    17036     16036     15085     14232     13431
                    12634     11797     10953     10180     9509
                    8928      8412      8001      7662      7354
                    7067      6793      6537      6309      6109
                    5925      5749      5582      5435      5306
                    5186      5067      4949      4842      4747
                    4653      4550      4440      4338      4239
                    4108      3920      3690      3462      3259
                    3078      2910      2754      2640      2570
                    2499      2428      2356      2287      2222
                    2158      2097      2037      1981      1928
                    1877      1828      1782      1738      1698
                    1661      1627      1594      1564      1537
                    1514      1494      1474      1456      1439
                    1424      1412      1402      1393      1385
                    1375      1363      1349      1334      1322
                    1311      1301      1290      1279      1269
                    1260      1253      1247      1240      1233
                    1225      1216      1205      1193      1182
                    1171      1162      1152      1143      1135
                    1127      1120      1113      1107      1102
                    1096      1092      1088      1084      1080
                    1075      1067      1058      1047      1037
                    1028      1019      1011      1004      998
```

```
                    992       986       979       973       967
                    960       950       939       927       916
                    906       896       887       879       870
                    861       850       837       823       809
                    795       782       770       760       750
                    739       726       712       698       683
                    670       657       646       635       624
                    613       601       585       569       555
                    542       530       517       505       494
                    485       475       466       459       453
                    445       435       422       409       396
                    386       376       368       358       349
                    340       331       324       319       314
                    310       304       299       294       290
                    287       286       285       282       280
                    277       275       273       273       273
                    273       271       270       268       266
                    264       259       253       245       237
                    229       221       213       206       198
                    190       180       168       155       143
                    131       120       109       99        90
                    81        73        73        73        73
                    72.9      72.9      72.9      72.9      72.9
                    72.8      72.8      72.8      72.8      72.8
                    72.7      72.7      72.7      72.7      72.7
                    72.7      72.6      72.6      72.6      72.6
                    72.6      72.5      72.5      72.5      72.5
                    72.5      72.4      72.4      72.4      72.4
                    72.4      72.3      72.3      72.3      72.3
                    72.3      72.3      72.2      72.2      72.2
                    72.2      72.2      72.1      72.1      72.1
                    72.1      72.1      72        72        72
                    72        72        71.9      71.9      71.9
ENDTABLE
POOLDATA  ELEV                                                1168
ASSURFACE 41
          100       4398      .02       .3        1         .5
ENDTABLE
ASDATA    41                            2
BTMWIDTH  FEET      850
ASMATERIAL
          1         10        0.008     20        110       0.001
ENDTABLE
ASCOORD   1         HOL       Y
          100       1203      109       1203      412.32    1202
          774.68    1201      974.24    1200      1153.2    1199
          1337.39   1197      1709.86   1195      2017.86   1190
          3133      1178      4398      1168
ENDTABLE
GRAPHICS  I
GO,HYD    L                             1
ENDJOB
ENDRUN

***** MESSAGE - ACTUAL MAINTENANCE CODES ALLOWED FOR STORM SIMULATION.

***** MESSAGE - AUXILIARY SPILLWAY CREST ELEVATION IS SET TO  1203.00
```

FROM THE ASCOORD RECORDS.

***** WARNING - Reach 1, ASSURFACE values are not consistent for soil.

INFLOW HYDROGRAPH PROVIDED. PEAK= 26045.00 CFS, AT 21.40 HRS.
TITLE = PMF Spillway

****

SUMMARY OF AUXILIARY SPILLWAY SURFACE CONDITIONS USED IN COMPUTATIONS BY REACH

REACH	FROM STA (ft)	TO STA (ft)	SLOPE (%)	RETARDANCE CURVE INDEX@	VEGETAL COVER FACTOR	MAINT. CODE	ROOTING DEPTH (ft)	REACH LOCATION *
1	100.	109.	0.0	0.020	0.30	1	0.5	CREST
2	109.	412.	0.3	0.020	0.30	1	0.5	exit
3	412.	775.	0.3	0.020	0.30	1	0.5	exit
4	775.	974.	0.5	0.020	0.30	1	0.5	exit
5	974.	1153.	0.6	0.020	0.30	1	0.5	exit
6	1153.	1337.	1.1	0.020	0.30	1	0.5	exit
7	1337.	1710.	0.5	0.020	0.30	1	0.5	exit
8	1710.	2018.	1.6	0.020	0.30	1	0.5	exit
9	2018.	3133.	1.1	0.020	0.30	1	0.5	exit
10	3133.	4398.	0.8	0.020	0.30	1	0.5	exit

@ The program interprets retardance curve index entries of less than 1 as Manning's n values.

****

INTEGRITY ANALYSIS - REACH SURFACE PERFORMANCE SUMMARY

Aux. Spillway Crest - 1203.00, Bottom Width - 850.0

(The auxiliary spillway began flow at time 0.0 hours
and peaked at time 21.4 hours with a discharge of 26045. cfs .)

REACH 2: FROM STATION 109. TO 412. ON 0.3% SLOPE.
Vegetal cover failed and concentrated flow developed
at time = 53.2 hours.

REACH 3: FROM STATION 412. TO 775. ON 0.3% SLOPE.
Vegetal cover failed and concentrated flow developed
at time = 78.0 hours.

REACH 4: FROM STATION 775. TO 974. ON 0.5% SLOPE.
Vegetal cover failed and concentrated flow developed
at time = 20.8 hours.

REACH 5: FROM STATION 974. TO 1153. ON 0.6% SLOPE.
Vegetal cover failed and concentrated flow developed
at time = 20.8 hours.

```
REACH   6: FROM STATION   1153. TO   1337. ON    1.1% SLOPE.
   Vegetal cover failed and concentrated flow developed
   at time =   20.4 hours.

REACH   7: FROM STATION   1337. TO   1710. ON    0.5% SLOPE.
   Vegetal cover failed and concentrated flow developed
   at time =   20.4 hours.

REACH   8: FROM STATION   1710. TO   2018. ON    1.6% SLOPE.
   Vegetal cover failed and concentrated flow developed
   at time =   20.2 hours.

REACH   9: FROM STATION   2018. TO   3133. ON    1.1% SLOPE.
   Vegetal cover failed and concentrated flow developed
   at time =   20.2 hours.

REACH  10: FROM STATION   3133. TO   4398. ON    0.8% SLOPE.
   Vegetal cover failed and concentrated flow developed
   at time =   20.4 hours.

INTEGRITY ANALYSIS - HEADCUT EROSION DAMAGE SUMMARY

  The headcut BREACHED the spillway crest at
  time equal approximately    54.8 hours.
  Computations terminated at that point!

  The most upstream headcut began at station    109.
  and progressed upstream to station    100.
  The final height of the headcut was    0.6 ft.

  The headcut having the maximum final overfall height began
  at station   1153. and progressed upstream to station   100.
  The final height of the headcut was   35.0 ft.

                 DURATION    DIST. FROM MOST U/S
                   FLOW      HEADCUT TO U/S EDGE
AUXILIARY           HRS      AUX. CREST, FT
SPILLWAY----       80.2         >>>BREACH<<<
      Depth =      0.6 ft

1SSEA.....Job Complete.
-------------------------------------------------------------------------------

WT



SSEA.....Computations Complete.
```

Pleistocene Input

K_H = [redacted] 0.01

SSEA 02/09/2002WT
* White Tanks 72 hr Storm Event
HYD 9 PMF Spillway

.2				
32.4	32.4	32.4	32.3	32.3
32.3	32.3	32.3	32.3	32.3
32.3	32.3	32.3	32.3	32.3
32.3	32.3	32.3	32.3	32.3
32.3	32.4	32.4	32.5	32.5
32.6	32.7	32.7	32.8	32.9
33	33.1	33.2	33.4	33.5
33.6	33.8	33.9	34.1	34.2
34.4	34.5	34.7	34.9	35.1
35.3	35.5	35.7	36	36.2
36.4	36.7	36.9	37.1	37.4
37.7	37.9	38.2	38.5	38.8
39.2	39.5	39.8	40.1	40.4
40.8	41.1	41.5	41.9	42.4
42.8	43.3	43.7	44.2	44.7
45.3	45.9	46.5	47.1	47.8
48.4	49.1	49.9	50.6	51.4
52.2	53.1	54	54.9	55.8
57	58.4	60.3	62.3	64
65.7	68	70	73	1255
3171	7311	12583	17897	22347
25135	26045	25467	24348	23297
22268	21179	20055	18980	17995
17036	16036	15085	14232	13431
12634	11797	10953	10180	9509
8928	8412	8001	7662	7354
7067	6793	6537	6309	6109
5925	5749	5582	5435	5306
5186	5067	4949	4842	4747
4653	4550	4440	4338	4239
4108	3920	3690	3462	3259
3078	2910	2754	2640	2570
2499	2428	2356	2287	2222
2158	2097	2037	1981	1928
1877	1828	1782	1738	1698
1661	1627	1594	1564	1537
1514	1494	1474	1456	1439
1424	1412	1402	1393	1385
1375	1363	1349	1334	1322
1311	1301	1290	1279	1269
1260	1253	1247	1240	1233
1225	1216	1205	1193	1182
1171	1162	1152	1143	1135
1127	1120	1113	1107	1102
1096	1092	1088	1084	1080
1075	1067	1058	1047	1037
1028	1019	1011	1004	998
992	986	979	973	967
960	950	939	927	916
906	896	887	879	870
861	850	837	823	809
795	782	770	760	750
739	726	712	698	683

```
                    670       657       646       635       624
                    613       601       585       569       555
                    542       530       517       505       494
                    485       475       466       459       453
                    445       435       422       409       396
                    386       376       368       358       349
                    340       331       324       319       314
                    310       304       299       294       290
                    287       286       285       282       280
                    277       275       273       273       273
                    273       271       270       268       266
                    264       259       253       245       237
                    229       221       213       206       198
                    190       180       168       155       143
                    131       120       109       99        90
                    81        73        73        73        73
                    72.9      72.9      72.9      72.9      72.9
                    72.8      72.8      72.8      72.8      72.8
                    72.7      72.7      72.7      72.7      72.7
                    72.7      72.6      72.6      72.6      72.6
                    72.6      72.5      72.5      72.5      72.5
                    72.5      72.4      72.4      72.4      72.4
                    72.4      72.3      72.3      72.3      72.3
                    72.3      72.3      72.2      72.2      72.2
                    72.2      72.2      72.1      72.1      72.1
                    72.1      72.1      72        72        72
                    72        72        71.9      71.9      71.9
ENDTABLE
POOLDATA  ELEV                                                1171
ASSURFACE 41
          140       4500      0.02      0         1         0
ENDTABLE
ASDATA    41                            2
BTMWIDTH  FEET      850
ASMATERIAL
          1         13        0.008     35        117       0.01
ENDTABLE
ASCOORD   1         Plei      Y
          100       1203      109       1203      412.32    1202
          774.68    1201      974.24    1200      1153.2    1199
          1337.39   1197      1709.86   1195      2017.86   1190
          3133      1178      4398      1168
ENDTABLE
GRAPHICS  I
GO,HYD    L                             1
ENDJOB
ENDRUN
```

Pleistocene output
K_H = [redacted] 0.01

```
1*****************************************************************************
 SSEA Xeq 09/09/2004   Spillway Integrity Analysis Program
      Ver 01.0.0                                Time 15:31:55

 ************************** 80-80 List of Input Data **************************

 SSEA       02/09/2002WT
 *          White Tanks 72 hr Storm Event
 HYD        9                    PMF Spillway
                      .2
                      32.4      32.4      32.4      32.3      32.3
                      32.3      32.3      32.3      32.3      32.3
                      32.3      32.3      32.3      32.3      32.3
                      32.3      32.3      32.3      32.3      32.3
                      32.3      32.4      32.4      32.5      32.5
                      32.6      32.7      32.7      32.8      32.9
                      33        33.1      33.2      33.4      33.5
                      33.6      33.8      33.9      34.1      34.2
                      34.4      34.5      34.7      34.9      35.1
                      35.3      35.5      35.7      36        36.2
                      36.4      36.7      36.9      37.1      37.4
                      37.7      37.9      38.2      38.5      38.8
                      39.2      39.5      39.8      40.1      40.4
                      40.8      41.1      41.5      41.9      42.4
                      42.8      43.3      43.7      44.2      44.7
                      45.3      45.9      46.5      47.1      47.8
                      48.4      49.1      49.9      50.6      51.4
                      52.2      53.1      54        54.9      55.8
                      57        58.4      60.3      62.3      64
                      65.7      68        70        73        1255
                      3171      7311      12583     17897     22347
                      25135     26045     25467     24348     23297
                      22268     21179     20055     18980     17995
                      17036     16036     15085     14232     13431
                      12634     11797     10953     10180     9509
                      8928      8412      8001      7662      7354
                      7067      6793      6537      6309      6109
                      5925      5749      5582      5435      5306
                      5186      5067      4949      4842      4747
                      4653      4550      4440      4338      4239
                      4108      3920      3690      3462      3259
                      3078      2910      2754      2640      2570
                      2499      2428      2356      2287      2222
                      2158      2097      2037      1981      1928
                      1877      1828      1782      1738      1698
                      1661      1627      1594      1564      1537
                      1514      1494      1474      1456      1439
                      1424      1412      1402      1393      1385
                      1375      1363      1349      1334      1322
                      1311      1301      1290      1279      1269
                      1260      1253      1247      1240      1233
                      1225      1216      1205      1193      1182
                      1171      1162      1152      1143      1135
                      1127      1120      1113      1107      1102
                      1096      1092      1088      1084      1080
                      1075      1067      1058      1047      1037
                      1028      1019      1011      1004      998
```

```
                    992       986       979       973       967
                    960       950       939       927       916
                    906       896       887       879       870
                    861       850       837       823       809
                    795       782       770       760       750
                    739       726       712       698       683
                    670       657       646       635       624
                    613       601       585       569       555
                    542       530       517       505       494
                    485       475       466       459       453
                    445       435       422       409       396
                    386       376       368       358       349
                    340       331       324       319       314
                    310       304       299       294       290
                    287       286       285       282       280
                    277       275       273       273       273
                    273       271       270       268       266
                    264       259       253       245       237
                    229       221       213       206       198
                    190       180       168       155       143
                    131       120       109       99        90
                    81        73        73        73        73
                    72.9      72.9      72.9      72.9      72.9
                    72.8      72.8      72.8      72.8      72.8
                    72.7      72.7      72.7      72.7      72.7
                    72.7      72.6      72.6      72.6      72.6
                    72.6      72.5      72.5      72.5      72.5
                    72.5      72.4      72.4      72.4      72.4
                    72.4      72.3      72.3      72.3      72.3
                    72.3      72.3      72.2      72.2      72.2
                    72.2      72.2      72.1      72.1      72.1
                    72.1      72.1      72        72        72
                    72        72        71.9      71.9      71.9
ENDTABLE
POOLDATA  ELEV                                                1171
ASSURFACE 41
          140       4500      0.02      0         1         0
ENDTABLE
ASDATA    41                            2
BTMWIDTH  FEET      850
ASMATERIAL
          1         13        0.008     35        117       0.01
ENDTABLE
ASCOORD   1         Plei      Y
          100       1203      109       1203      412.32    1202
          774.68    1201      974.24    1200      1153.2    1199
          1337.39   1197      1709.86   1195      2017.86   1190
          3133      1178      4398      1168
ENDTABLE
GRAPHICS  I
GO,HYD    L                             1
ENDJOB
ENDRUN

***** MESSAGE - ACTUAL MAINTENANCE CODES ALLOWED FOR STORM SIMULATION.

***** MESSAGE - AUXILIARY SPILLWAY CREST ELEVATION IS SET TO  1203.00
```

FROM THE ASCOORD RECORDS.

***** MESSAGE - Values from ASSURFACE, Reach 1 imply a vegetal cover with "n" of 0.020.

INFLOW HYDROGRAPH PROVIDED. PEAK= 26045.00 CFS, AT 21.40 HRS.
TITLE = PMF Spillway

****

SUMMARY OF AUXILIARY SPILLWAY SURFACE CONDITIONS USED IN COMPUTATIONS BY REACH

REACH	FROM STA (ft)	TO STA (ft)	SLOPE (%)	RETARDANCE CURVE INDEX@	VEGETAL COVER FACTOR	MAINT. CODE	ROOTING DEPTH (ft)	REACH LOCATION *
1	100.	109.	0.0	0.020	0.00	1		CREST
2	109.	412.	0.3	0.020	0.00	1		exit
3	412.	775.	0.3	0.020	0.00	1		exit
4	775.	974.	0.5	0.020	0.00	1		exit
5	974.	1153.	0.6	0.020	0.00	1		exit
6	1153.	1337.	1.1	0.020	0.00	1		exit
7	1337.	1710.	0.5	0.020	0.00	1		exit
8	1710.	2018.	1.6	0.020	0.00	1		exit
9	2018.	3133.	1.1	0.020	0.00	1		exit
10	3133.	4018.	0.8	0.020	0.00	1		exit

@ The program interprets retardance curve index entries of less than 1 as Manning's n values.

****

INTEGRITY ANALYSIS - REACH SURFACE PERFORMANCE SUMMARY

Aux. Spillway Crest - 1203.00, Bottom Width - 850.0

(The auxiliary spillway began flow at time 0.0 hours
and peaked at time 21.4 hours with a discharge of 26045. cfs .)

REACH 2: FROM STATION 109. TO 412. ON 0.3% SLOPE.
Non-vegetated conditions implied: flow concentration
assumed with minimal flow: Time = 41.0 hours.

REACH 3: FROM STATION 412. TO 775. ON 0.3% SLOPE.
Non-vegetated conditions implied: flow concentration
assumed with minimal flow: Time = 48.8 hours.

REACH 4: FROM STATION 775. TO 974. ON 0.5% SLOPE.
Non-vegetated conditions implied: flow concentration
assumed with minimal flow: Time = 20.8 hours.

REACH 5: FROM STATION 974. TO 1153. ON 0.6% SLOPE.
Non-vegetated conditions implied: flow concentration
assumed with minimal flow: Time = 20.6 hours.

```
REACH   6: FROM STATION   1153. TO   1337. ON    1.1% SLOPE.
   Non-vegetated conditions implied: flow concentration
    assumed with minimal flow: Time =   20.4 hours.

REACH   7: FROM STATION   1337. TO   1710. ON    0.5% SLOPE.
   Non-vegetated conditions implied: flow concentration
    assumed with minimal flow: Time =   20.4 hours.

REACH   8: FROM STATION   1710. TO   2018. ON    1.6% SLOPE.
   Non-vegetated conditions implied: flow concentration
    assumed with minimal flow: Time =   20.2 hours.

REACH   9: FROM STATION   2018. TO   3133. ON    1.1% SLOPE.
   Non-vegetated conditions implied: flow concentration
    assumed with minimal flow: Time =   20.2 hours.

REACH  10: FROM STATION   3133. TO   4018. ON    0.8% SLOPE.
   Non-vegetated conditions implied: flow concentration
    assumed with minimal flow: Time =   20.4 hours.

INTEGRITY ANALYSIS - HEADCUT EROSION DAMAGE SUMMARY

  The headcut BREACHED the spillway crest at
  time equal approximately    42.6 hours.
  Computations terminated at that point!

  The most upstream headcut began at station    109.
  and progressed upstream to station    100.
  The final height of the headcut was    0.5 ft.

  The headcut having the maximum final overfall height began
  at station   2018. and progressed upstream to station  1348.
  The final height of the headcut was   14.3 ft.

                 DURATION    DIST. FROM MOST U/S
                   FLOW      HEADCUT TO U/S EDGE
AUXILIARY           HRS      AUX. CREST, FT
SPILLWAY----       80.2         >>>BREACH<<<
      Depth =      0.5 ft

1SSEA.....Job Complete.
 ---------------------------------------------------------------------------

 WT



 SSEA.....Computations Complete.
```

Pleistocene Input

$K_H = 0.4$

SSEA 02/09/2002WT
* White Tanks 72 hr Storm Event
HYD 9 PMF Spillway

.2				
32.4	32.4	32.4	32.3	32.3
32.3	32.3	32.3	32.3	32.3
32.3	32.3	32.3	32.3	32.3
32.3	32.3	32.3	32.3	32.3
32.3	32.4	32.4	32.5	32.5
32.6	32.7	32.7	32.8	32.9
33	33.1	33.2	33.4	33.5
33.6	33.8	33.9	34.1	34.2
34.4	34.5	34.7	34.9	35.1
35.3	35.5	35.7	36	36.2
36.4	36.7	36.9	37.1	37.4
37.7	37.9	38.2	38.5	38.8
39.2	39.5	39.8	40.1	40.4
40.8	41.1	41.5	41.9	42.4
42.8	43.3	43.7	44.2	44.7
45.3	45.9	46.5	47.1	47.8
48.4	49.1	49.9	50.6	51.4
52.2	53.1	54	54.9	55.8
57	58.4	60.3	62.3	64
65.7	68	70	73	1255
3171	7311	12583	17897	22347
25135	26045	25467	24348	23297
22268	21179	20055	18980	17995
17036	16036	15085	14232	13431
12634	11797	10953	10180	9509
8928	8412	8001	7662	7354
7067	6793	6537	6309	6109
5925	5749	5582	5435	5306
5186	5067	4949	4842	4747
4653	4550	4440	4338	4239
4108	3920	3690	3462	3259
3078	2910	2754	2640	2570
2499	2428	2356	2287	2222
2158	2097	2037	1981	1928
1877	1828	1782	1738	1698
1661	1627	1594	1564	1537
1514	1494	1474	1456	1439
1424	1412	1402	1393	1385
1375	1363	1349	1334	1322
1311	1301	1290	1279	1269
1260	1253	1247	1240	1233
1225	1216	1205	1193	1182
1171	1162	1152	1143	1135
1127	1120	1113	1107	1102
1096	1092	1088	1084	1080
1075	1067	1058	1047	1037
1028	1019	1011	1004	998
992	986	979	973	967
960	950	939	927	916
906	896	887	879	870
861	850	837	823	809
795	782	770	760	750
739	726	712	698	683

```
                    670       657       646       635       624
                    613       601       585       569       555
                    542       530       517       505       494
                    485       475       466       459       453
                    445       435       422       409       396
                    386       376       368       358       349
                    340       331       324       319       314
                    310       304       299       294       290
                    287       286       285       282       280
                    277       275       273       273       273
                    273       271       270       268       266
                    264       259       253       245       237
                    229       221       213       206       198
                    190       180       168       155       143
                    131       120       109       99        90
                    81        73        73        73        73
                    72.9      72.9      72.9      72.9      72.9
                    72.8      72.8      72.8      72.8      72.8
                    72.7      72.7      72.7      72.7      72.7
                    72.7      72.6      72.6      72.6      72.6
                    72.6      72.5      72.5      72.5      72.5
                    72.5      72.4      72.4      72.4      72.4
                    72.4      72.3      72.3      72.3      72.3
                    72.3      72.3      72.2      72.2      72.2
                    72.2      72.2      72.1      72.1      72.1
                    72.1      72.1      72        72        72
                    72        72        71.9      71.9      71.9
ENDTABLE
POOLDATA  ELEV                                                1171
ASSURFACE 41
          140       4500      0.02      0         1         0
ENDTABLE
ASDATA    41                            2
BTMWIDTH  FEET      850
ASMATERIAL
          1         13        0.008     35        117       0.4
ENDTABLE
ASCOORD   1         Plei      Y
          100       1203      109       1203      412.32    1202
          774.68    1201      974.24    1200      1153.2    1199
          1337.39   1197      1709.86   1195      2017.86   1190
          3133      1178      4398      1168
ENDTABLE
GRAPHICS  I
GO,HYD    L                             1
ENDJOB
ENDRUN
```

Pleistocene output
$K_H = 0.4$

```
1*******************************************************************************
 SSEA Xeq 09/10/2004   Spillway Integrity Analysis Program
      Ver 01.0.0                                Time 09:27:14

 ************************** 80-80 List of Input Data ***************************

 SSEA       02/09/2002WT
 *          White Tanks 72 hr Storm Event
 HYD        9                    PMF Spillway
                    .2
                    32.4      32.4      32.4      32.3      32.3
                    32.3      32.3      32.3      32.3      32.3
                    32.3      32.3      32.3      32.3      32.3
                    32.3      32.3      32.3      32.3      32.3
                    32.3      32.4      32.4      32.5      32.5
                    32.6      32.7      32.7      32.8      32.9
                    33        33.1      33.2      33.4      33.5
                    33.6      33.8      33.9      34.1      34.2
                    34.4      34.5      34.7      34.9      35.1
                    35.3      35.5      35.7      36        36.2
                    36.4      36.7      36.9      37.1      37.4
                    37.7      37.9      38.2      38.5      38.8
                    39.2      39.5      39.8      40.1      40.4
                    40.8      41.1      41.5      41.9      42.4
                    42.8      43.3      43.7      44.2      44.7
                    45.3      45.9      46.5      47.1      47.8
                    48.4      49.1      49.9      50.6      51.4
                    52.2      53.1      54        54.9      55.8
                    57        58.4      60.3      62.3      64
                    65.7      68        70        73        1255
                    3171      7311      12583     17897     22347
                    25135     26045     25467     24348     23297
                    22268     21179     20055     18980     17995
                    17036     16036     15085     14232     13431
                    12634     11797     10953     10180     9509
                    8928      8412      8001      7662      7354
                    7067      6793      6537      6309      6109
                    5925      5749      5582      5435      5306
                    5186      5067      4949      4842      4747
                    4653      4550      4440      4338      4239
                    4108      3920      3690      3462      3259
                    3078      2910      2754      2640      2570
                    2499      2428      2356      2287      2222
                    2158      2097      2037      1981      1928
                    1877      1828      1782      1738      1698
                    1661      1627      1594      1564      1537
                    1514      1494      1474      1456      1439
                    1424      1412      1402      1393      1385
                    1375      1363      1349      1334      1322
                    1311      1301      1290      1279      1269
                    1260      1253      1247      1240      1233
                    1225      1216      1205      1193      1182
                    1171      1162      1152      1143      1135
                    1127      1120      1113      1107      1102
                    1096      1092      1088      1084      1080
                    1075      1067      1058      1047      1037
                    1028      1019      1011      1004      998
```

```
                    992       986       979       973       967
                    960       950       939       927       916
                    906       896       887       879       870
                    861       850       837       823       809
                    795       782       770       760       750
                    739       726       712       698       683
                    670       657       646       635       624
                    613       601       585       569       555
                    542       530       517       505       494
                    485       475       466       459       453
                    445       435       422       409       396
                    386       376       368       358       349
                    340       331       324       319       314
                    310       304       299       294       290
                    287       286       285       282       280
                    277       275       273       273       273
                    273       271       270       268       266
                    264       259       253       245       237
                    229       221       213       206       198
                    190       180       168       155       143
                    131       120       109       99        90
                    81        73        73        73        73
                    72.9      72.9      72.9      72.9      72.9
                    72.8      72.8      72.8      72.8      72.8
                    72.7      72.7      72.7      72.7      72.7
                    72.7      72.6      72.6      72.6      72.6
                    72.6      72.5      72.5      72.5      72.5
                    72.5      72.4      72.4      72.4      72.4
                    72.4      72.3      72.3      72.3      72.3
                    72.3      72.3      72.2      72.2      72.2
                    72.2      72.2      72.1      72.1      72.1
                    72.1      72.1      72        72        72
                    72        72        71.9      71.9      71.9
ENDTABLE
POOLDATA  ELEV                                                1171
ASSURFACE 41
          140       4500      0.02      0         1         0
ENDTABLE
ASDATA    41                            2
BTMWIDTH  FEET      850
ASMATERIAL
          1         13        0.008     35        117       0.4
ENDTABLE
ASCOORD   1         Plei      Y
          100       1203      109       1203      412.32    1202
          774.68    1201      974.24    1200      1153.2    1199
          1337.39   1197      1709.86   1195      2017.86   1190
          3133      1178      4398      1168
ENDTABLE
GRAPHICS  I
GO,HYD    L                             1
ENDJOB
ENDRUN

***** MESSAGE - ACTUAL MAINTENANCE CODES ALLOWED FOR STORM SIMULATION.

***** MESSAGE - AUXILIARY SPILLWAY CREST ELEVATION IS SET TO  1203.00
```

FROM THE ASCOORD RECORDS.

***** MESSAGE - Values from ASSURFACE, Reach 1 imply a vegetal cover with "n" of 0.020.

INFLOW HYDROGRAPH PROVIDED. PEAK= 26045.00 CFS, AT 21.40 HRS.
TITLE = PMF Spillway

****

SUMMARY OF AUXILIARY SPILLWAY SURFACE CONDITIONS USED IN COMPUTATIONS BY REACH

REACH	FROM STA (ft)	TO STA (ft)	SLOPE (%)	RETARDANCE CURVE INDEX@	VEGETAL COVER FACTOR	MAINT. CODE	ROOTING DEPTH (ft)	REACH LOCATION *
1	100.	109.	0.0	0.020	0.00	1		CREST
2	109.	412.	0.3	0.020	0.00	1		exit
3	412.	775.	0.3	0.020	0.00	1		exit
4	775.	974.	0.5	0.020	0.00	1		exit
5	974.	1153.	0.6	0.020	0.00	1		exit
6	1153.	1337.	1.1	0.020	0.00	1		exit
7	1337.	1710.	0.5	0.020	0.00	1		exit
8	1710.	2018.	1.6	0.020	0.00	1		exit
9	2018.	3133.	1.1	0.020	0.00	1		exit
10	3133.	4018.	0.8	0.020	0.00	1		exit

@ The program interprets retardance curve index entries of less than 1 as Manning's n values.

****

INTEGRITY ANALYSIS - REACH SURFACE PERFORMANCE SUMMARY

Aux. Spillway Crest - 1203.00, Bottom Width - 850.0

(The auxiliary spillway began flow at time 0.0 hours
and peaked at time 21.4 hours with a discharge of 26045. cfs .)

REACH 2: FROM STATION 109. TO 412. ON 0.3% SLOPE.
Non-vegetated conditions implied: flow concentration
assumed with minimal flow: Time = 41.0 hours.

REACH 3: FROM STATION 412. TO 775. ON 0.3% SLOPE.
Non-vegetated conditions implied: flow concentration
assumed with minimal flow: Time = 48.8 hours.

REACH 4: FROM STATION 775. TO 974. ON 0.5% SLOPE.
Non-vegetated conditions implied: flow concentration
assumed with minimal flow: Time = 20.8 hours.

REACH 5: FROM STATION 974. TO 1153. ON 0.6% SLOPE.
Non-vegetated conditions implied: flow concentration
assumed with minimal flow: Time = 20.6 hours.

```
REACH   6: FROM STATION   1153. TO   1337. ON    1.1% SLOPE.
   Non-vegetated conditions implied: flow concentration
    assumed with minimal flow: Time =   20.4 hours.

REACH   7: FROM STATION   1337. TO   1710. ON    0.5% SLOPE.
   Non-vegetated conditions implied: flow concentration
    assumed with minimal flow: Time =   20.4 hours.

REACH   8: FROM STATION   1710. TO   2018. ON    1.6% SLOPE.
   Non-vegetated conditions implied: flow concentration
    assumed with minimal flow: Time =   20.2 hours.

REACH   9: FROM STATION   2018. TO   3133. ON    1.1% SLOPE.
   Non-vegetated conditions implied: flow concentration
    assumed with minimal flow: Time =   20.2 hours.

REACH  10: FROM STATION   3133. TO   4018. ON    0.8% SLOPE.
   Non-vegetated conditions implied: flow concentration
    assumed with minimal flow: Time =   20.4 hours.

INTEGRITY ANALYSIS - HEADCUT EROSION DAMAGE SUMMARY

  The most upstream headcut began at station    109.
  and progressed upstream to station    109.
  The final height of the headcut was    1.5 ft.

  The headcut having the maximum final overfall height began
  at station   1710. and progressed upstream to station  1710.
  The final height of the headcut was    4.9 ft.

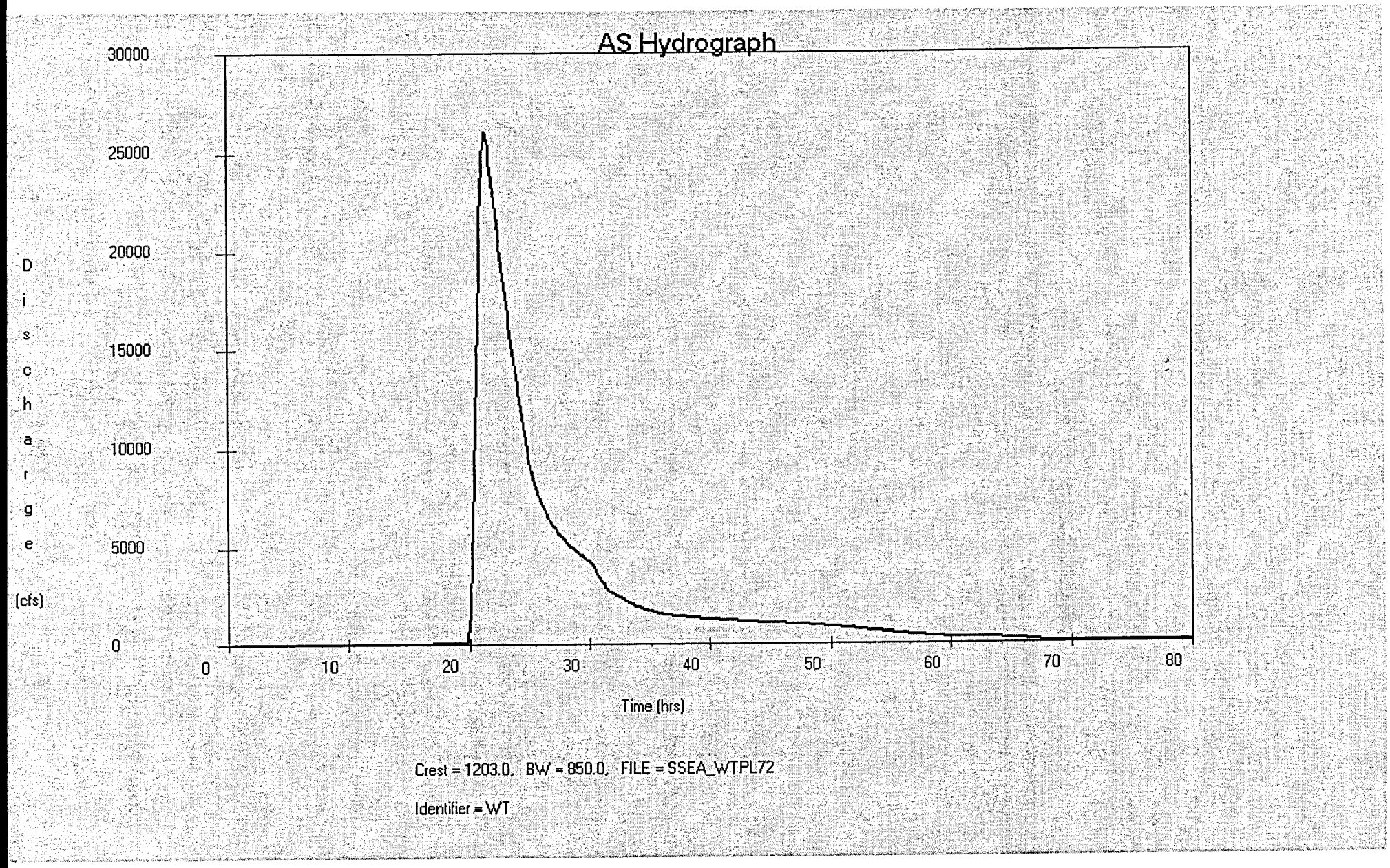
                    DURATION    DIST. FROM MOST U/S
                      FLOW      HEADCUT TO U/S EDGE
AUXILIARY              HRS      AUX. CREST, FT
SPILLWAY ---          80.2             9.

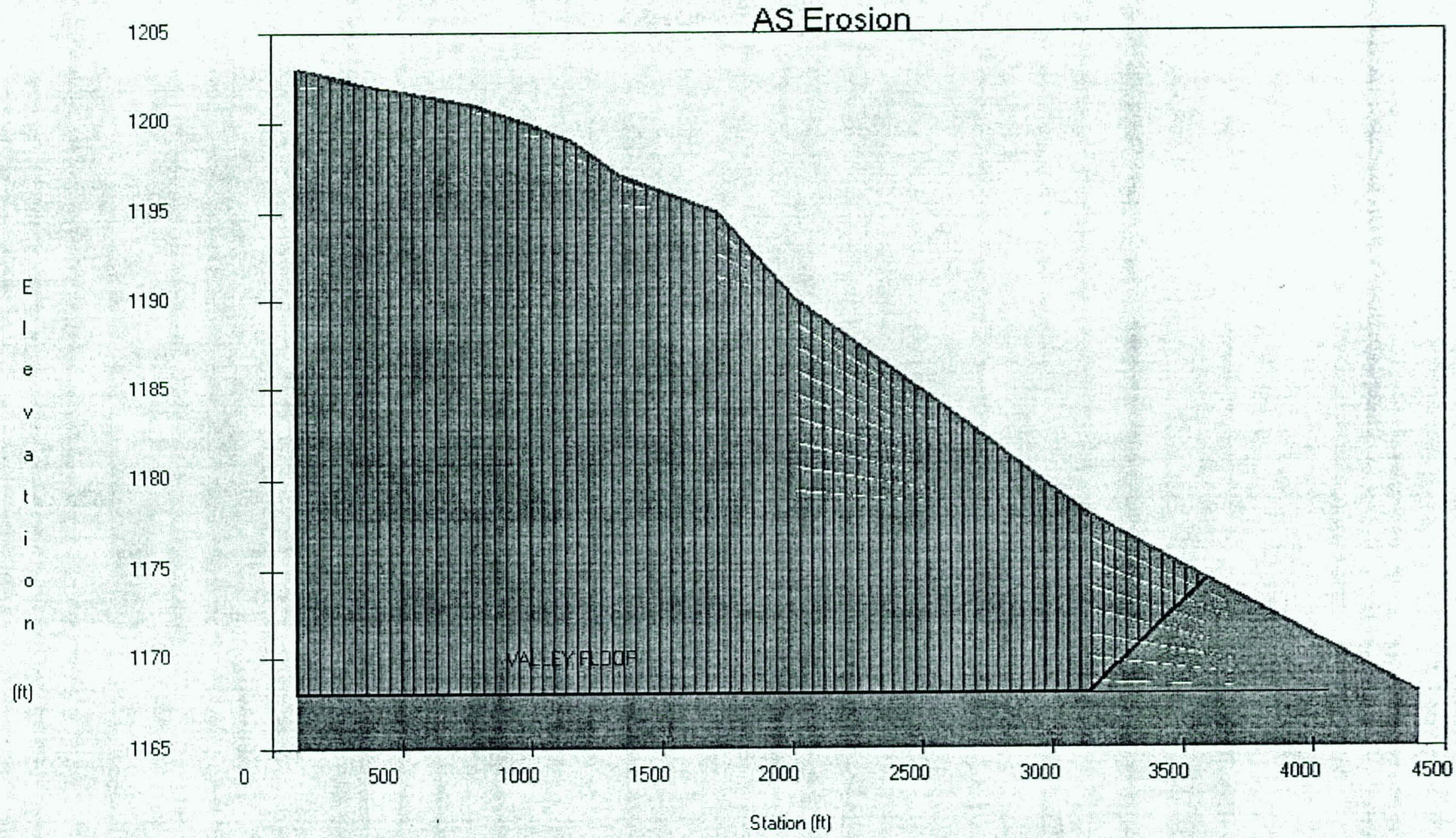
1SSEA.....Job Complete.
 ---------------------------------------------------------------------------

 WT



 SSEA.....Computations Complete.
```

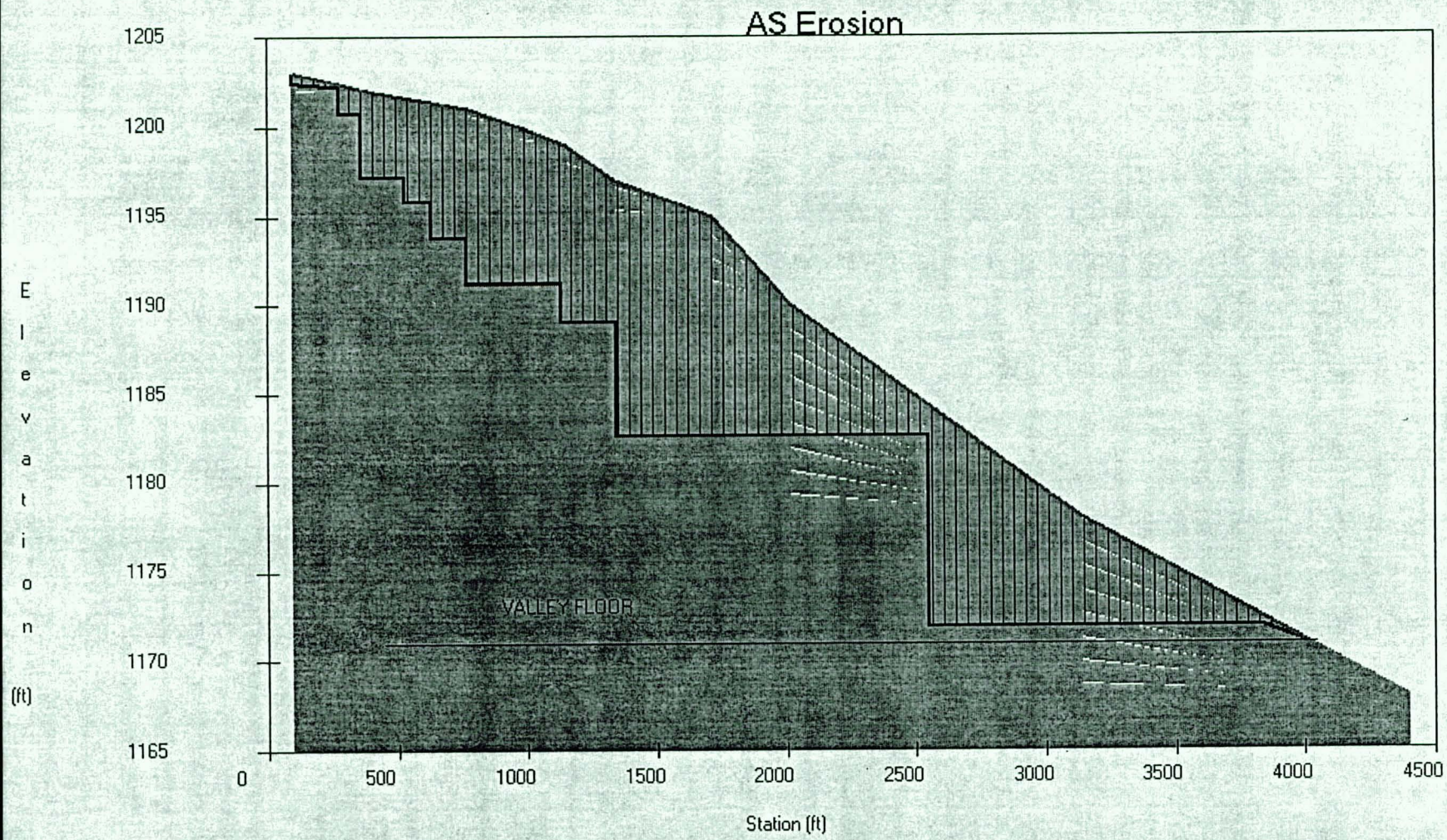

AS Hydrograph
Discharge (cfs)
30000
25000
20000
15000
10000
5000
0
0
10
20
30
40
50
60
70
80
Time (hrs)
Crest = 1203.0, BW = 850.0, FILE = SSEA_WTPL72
Identifier = WT



Crest = 1203.0, BW = 850.0, FILE = SSEA_WTH072

Identifier = WT

Holocene

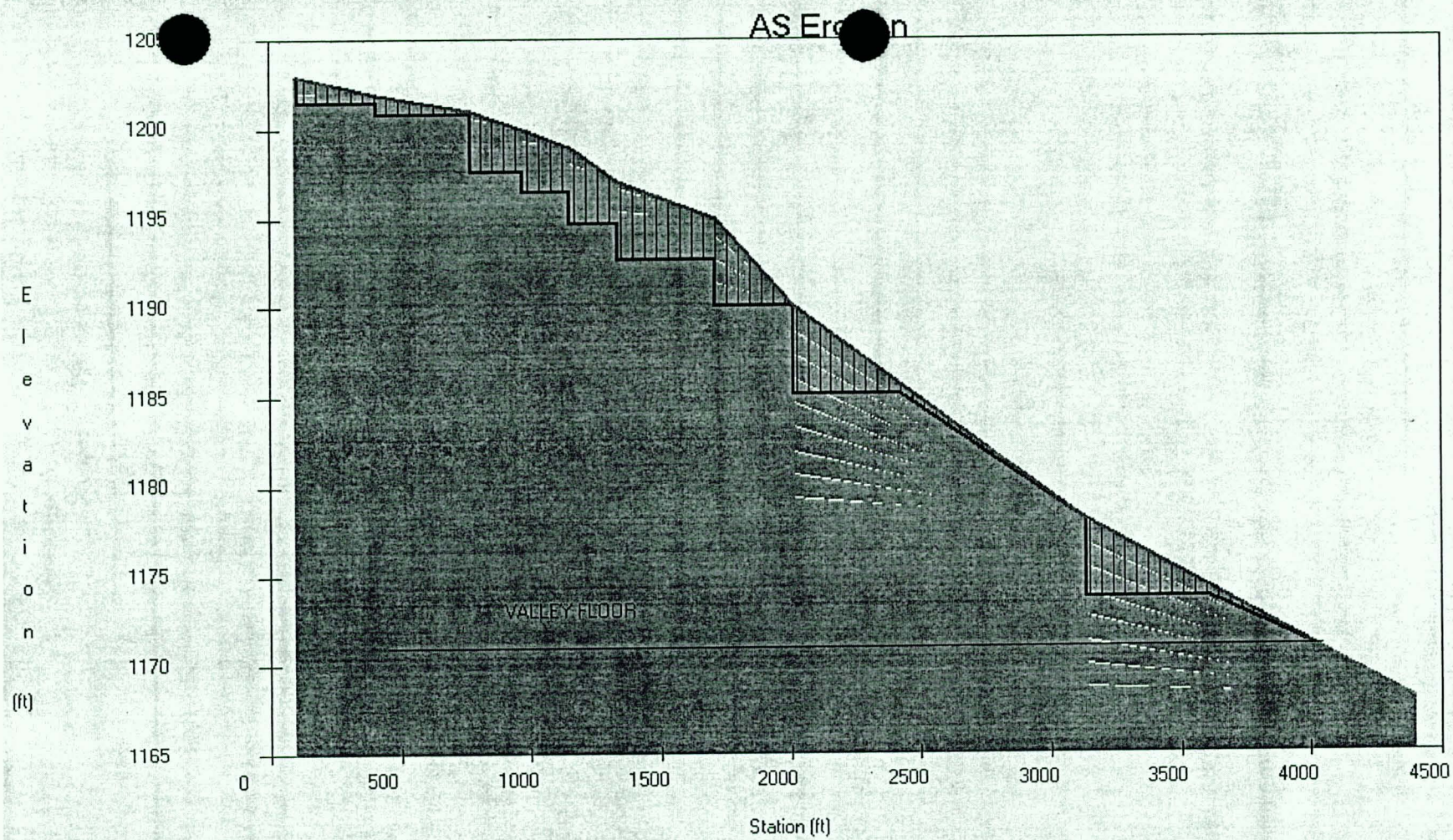


Legend

Plei (0.01)

Pleistocene

$K_H = 0.01$



Crest = 1203.0, BW = 850.0, FILE = SSEA_WTPL72

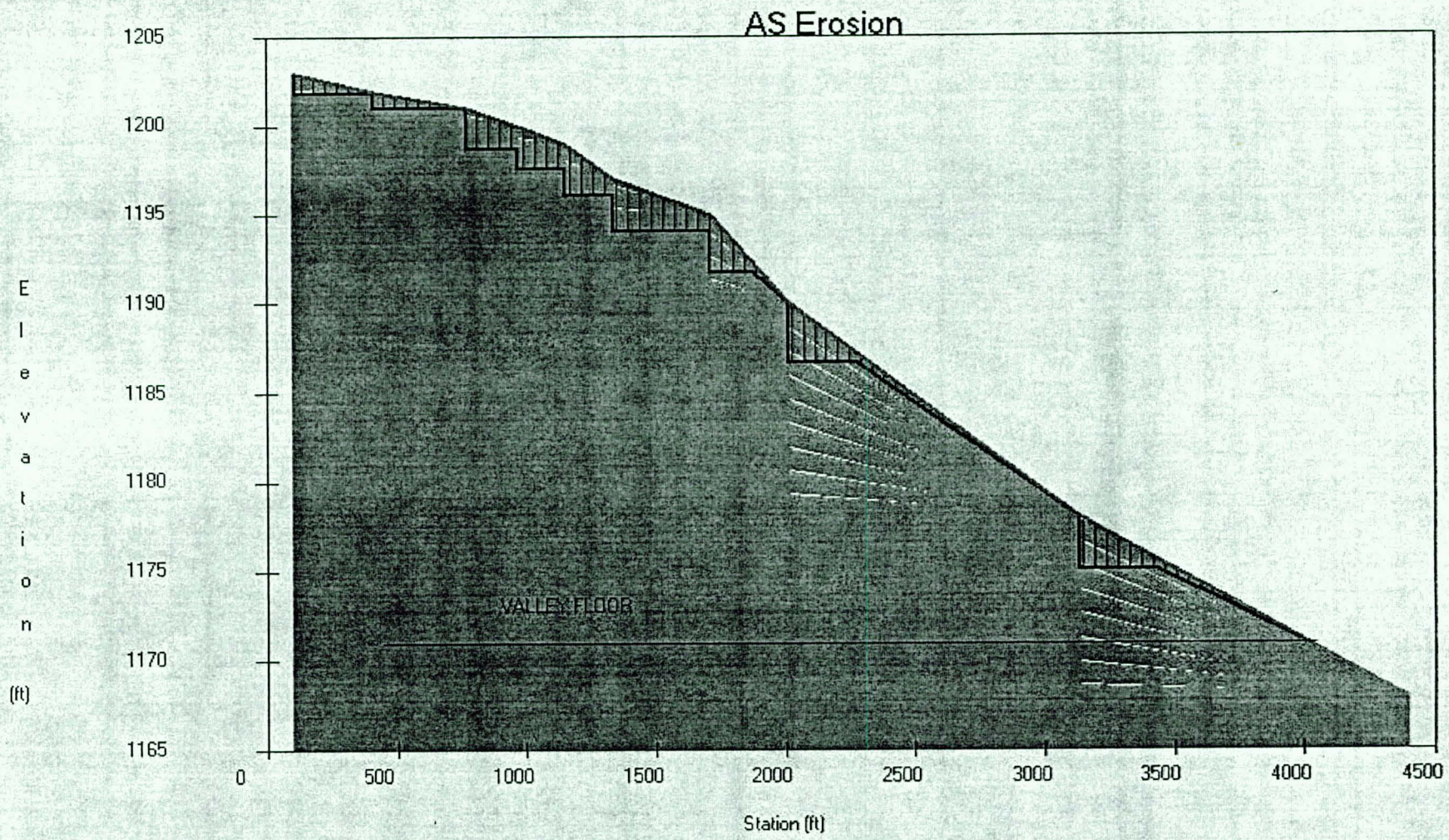
Identifier = WT

Legend

Plei (0.4)

Pleistocene

$K_H = 0.4$



Crest = 1203.0, BW = 850.0, FILE = SSEA_WTPL72

Identifier = WT

Pleistocene
$K_H = 2$

(1)

URS

CALCULATION PACKAGE NO. I-2

EXHIBIT 4.7-2

CALCULATION COVER SHEET

Client: Flood Control District of Maricopa County (FCDMC)

Project Name: White Tank FRS No. 3 Design

Project/Calculation Number: 23443748

Title: **OUTLET CHANNEL DESIGN DOWNSTREAM OF OUTLET STRUCTURES WHITE TANK FLOOD RETARDING STRUCTURE (FRS) NO. 3**

Total Number of Pages (including cover sheet): _____

Total Number of Computer Runs: _____

Prepared by: Hammad Hussain Date: 08/16/04

Checked by: Michael Johnson Date: 8/18/04

Description and Purpose:

See Page 2

Design Basis /Assumptions

See Page 2

Remarks/Conclusions/Results:

See Pages 2-4.

Calculation Approved by: Todd Ringsmuth 8-20-04

Project Manager/Date

Revision No.:	Description of Revision:	Approved by:

Project Manager/Date

OUTLET CHANNEL DESIGN DOWNSTREAM OF OUTLET STRUCTURES
WHITE TANK FLOOD RETARDING STRUCTURE (FRS) NO. 3

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY (FCDMC)
23443748

PROBLEM STATEMENT

The aim of this calculation package is to design the outlet channel downstream of outlet structures.

DESIGN BASIS/ASSUMPTIONS/REFERENCES

Introduction

The outlet structures will be a gated outlet and a principal spillway, with each structure connected to a separate conduit through the embankment. The conduits will discharge into a concrete stilling basin designed to dissipate the flow energy prior to entering the outlet channel. The outlet channel will convey the discharges from the outlet works to the existing wash located adjacent to the Beardsley Canal.

Channel Design

The outlet channel of bottom width of approximately 33 ft with side slopes of 3 to 1 (H: V) was designed to convey discharge flows from the stilling basin to a natural wash downstream of the embankment. The outlet channel will be excavated at a 0.5 percent slope through the existing dam to the point where the channel matches the existing ground surface.

The reservoir routing of several PMF hydrographs indicated 6-hr local PMF storm to be the worst case storm resulting in highest water surface elevation of 1216.5 ft. The combined capacity of principal spillway and gated outlet at 1216.5 ft was found to be approximately equal to 550 cfs. Therefore, the outlet channel was designed for a capacity of 550 cfs. The calculations related to the estimation of principal spillway and gated outlet capacities are provided in separate calculation packages. A Manning's Roughness coefficient of 0.045 was used for the outlet channel design keeping in view the future vegetation growth. .

A computer software FLOWMASTER was used to determine the uniform flow depth and mean flow velocity within the outlet channel.

RESULTS

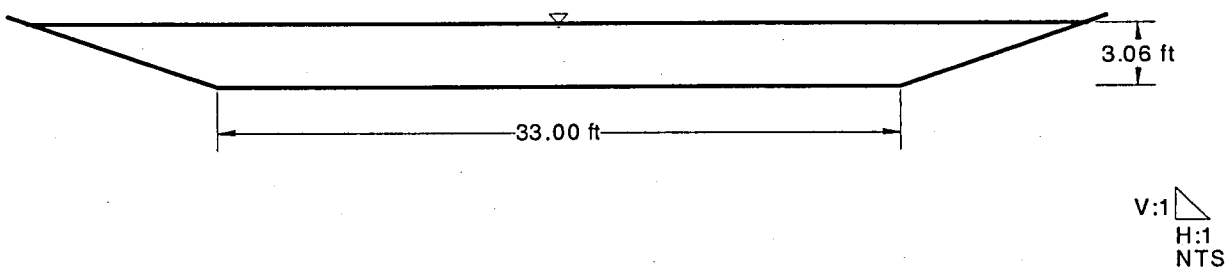
The FLOWMASTER analysis indicated a uniform flow depth of 3.1 ft within the outlet channel with the mean flow velocity equal to 4.25 ft/sec (Please See Pages 4 and 5).

Cross Section
Cross Section for Trapezoidal Channel

4

Project Description	
Worksheet	Copy of Trapezoidal Char
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Channel Depth

Section Data		
Mannings Coeffic	0.045	
Slope	0.005000	ft/ft
Depth	3.06	ft
Left Side Slope	3.00	H : V
Right Side Slope	3.00	H : V
Bottom Width	33.00	ft
Discharge	550.00	cfs



Channel Sizing Downstream of Outlets
Worksheet for Trapezoidal Channel

(5)

Project Description	
Worksheet	Copy of Trapezoidal Char
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Channel Depth

Input Data		
Mannings Coeffic	0.045	
Slope	0.005000	ft/ft
Left Side Slope	3.00	H : V
Right Side Slope	3.00	H : V
Bottom Width	33.00	ft
Discharge	550.00	cfs

Results		
Depth	3.06	ft
Flow Area	129.1	ft²
Wetted Perim	52.35	ft
Top Width	51.36	ft
Critical Depth	1.93	ft
Critical Slope	0.025294	ft/ft
Velocity	4.26	ft/s → Velocity
Velocity Head	0.28	ft
Specific Energ	3.34	ft
Froude Numb	0.47	
Flow Type	Subcritical	

URS

CALCULATION PACKAGE NO. I-3

EXHIBIT 4.7-2

CALCULATION COVER SHEET

Client: Flood Control District of Maricopa County (FCDMC)

Project Name: White Tank FRS No. 3 Design

Project/Calculation Number: 23443748

Title:

RIPRAP SIZING FOR OUTLET CHANNEL
WHITE TANK FLOOD RETARDING STRUCTURE (FRS) NO. 3

Total Number of Pages (including cover sheet): _____

Total Number of Computer Runs: _____

Prepared by: Hammad Hussain Date: 08/18/04

Checked by: Todd Ringsmuth Date: 8-20-04

Description and Purpose:

See Page 2

Design Basis /Assumptions

See Page 2

Remarks/Conclusions/Results:

See Pages 3-8.

Calculation Approved by: Todd Ringsmuth 8-20-04
Project Manager/Date

Revision No.:	Description of Revision:	Approved by:

Project Manager/Date

RIPRAP SIZING FOR OUTLET CHANNEL
WHITE TANK FLOOD RETARDING STRUCTURE (FRS) NO. 3

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY (FCDMC)
23443748

PROBLEM STATEMENT

The aim of this calculation package is to estimate a riprap size for the outlet channel located at downstream of outlet structures.

DESIGN BASIS/ASSUMPTIONS/REFERENCES

Introduction

The outlet structures will be a gated outlet and a principal spillway, with each structure connected to a separate conduit through the embankment. The conduits will discharge into a concrete stilling basin designed to dissipate the flow energy prior to entering the outlet channel. The outlet channel will convey the discharges from the outlet works to the existing wash located adjacent to the Beardsley Canal.

The design for outlet channel is presented in a separate calculation package. The design analysis for the outlet channel indicated that the outlet channel of bottom width of approximately 33 ft with side slopes of 3 to 1 (H: V) would be able to convey a flow of 550 cfs at a flow dept of 3.1 ft with an average channel velocity equal to 4.25 ft/sec.

Riprap Design

The riprap size for the outlet channel was estimated using a computer software RIPRAP developed by West Consultants. RIPRAP estimates the size of the riprap for the given flow conditions based on several methods available in industry. The input parameters to the RIPRAP were:

a. Flow Depth (3.1 ft)

b. Average Channel Velocity (4.25 ft/sec)

c. Side Slope (3:1 H:V)

d. Unit Weight of Stone (155 lb/ft^3)

Results

The summary of RIRAP results is provided in Table 1 (See Page 4). The output results for RIPRAP model are attached at the end of this calculation package (See Pages 5-8).

Based on the summary of RIPRAP results summarized in Table 1, the required riprap size (D50) for the outlet channel varies between 0.14 ft to 0.40 ft. Form a conservative standpoint; a riprap size of 0.40 ft (approximately 5 inches) was selected for the outlet channel.

TABLE 1
SUMMARY OF RIPRAP RESULTS

METHOD	D50 (ft)
USACOE	0.40
ASCE	0.14
USBR	0.24
USGS	0.34
ISBASH	0.13

(5)

08/17/04 WEST Consultants, Inc. Riprap
2.0

2111 Palomar Airport Rd.
Suite 180
Carlsbad, CA 92009-1419

PROGRAM OUTPUT
ÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄ

íííííííííííííííííííííííííííííí USCOE Method
íííííííííííííííííííííííííííííí

Input Parameters:
ÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄ
Run Name: NAME_01 Description: RIPRAP DESIGN FOR OUTLET CHANNEL (WT FRS3)

Velocity	Average
Channel Type	Trapezoidal
Straight Channel	Yes
Bend Angle, ø	N/A
Average Channel Velocity, ft/sec	4.25
Bottom Width, ft	N/A
Minimum Centerline Bend Radius, ft	N/A
Water Surface Width, ft	N/A
Unit Weight of Stone, lbs/cu ft	155.00
Riprap Layer Thickness	1.00
Local Flow Depth, ft	3.10
Cotangent of Sideslope	3.00
Safety Factor	1.20

Output Results:
ÄÄÄÄÄÄÄÄÄÄÄÄÄÄ

Computed Local Depth Average Velocity, ft/sec	4.25
Local Velocity / Avg. Channel Velocity	1.00
Correction for Layer Thickness	1.00
Side Slope Correction Factor	1.01
Correction for Secondary Currents	1.00

Method: 1

*** Using Gradation from COE ETL 1110-2-120 ***

Computed D30, ft	0.08
Specific Weight, pcf	155.00
Layer Thickness, ft	0.75
Selected Minimum D30, ft	0.37
Selected Minimum D90, ft	0.53

Percent Lighter by Weight	Stone Weight, lbs Minimum	Maximum
ÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄ	ÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄ	
W100	14	34
W50	7	10

(6)

W15	2	5

Method No: 2

íííííííííííííííííííííííííííííííí ASCE Method
íííííííííííííííííííííííííííííííí

Input Parameters:
ÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄ
Run Name: NAME_01 Description: RIPRAP DESIGN FOR OUTLET CHANNEL (WT FRS3)

Local Depth Averaged Velocity, ft/sec	4.25
Unit Weight of Stone, lbs/cu ft	155.00
Cotangent of Sideslope	3.00

Output Results:
ÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄ

Computed D50, ft	0.14

*** Using Gradation from COE ETL 1110-2-120 ***

Computed D30, ft	0.11
Specific Weight, pcf	155.00
Layer Thickness, ft	0.75
Selected Minimum D30, ft	0.37
Selected Minimum D90, ft	0.53

Percent Lighter by Weight	Stone Weight, lbs Minimum	Maximum
W100	14	34
W50	7	10
W15	2	5

Method : 3

íííííííííííííííííííííííííííííííí USBR Method
íííííííííííííííííííííííííííííííí

Input Parameters:
ÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄ
Run Name: NAME_01 Description: RIPRAP DESIGN FOR OUTLET CHANNEL (WT FRS3)

Average Channel Velocity, ft/sec 4.25

Output Results:
ÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄ

Computed D50, ft	0.24

*** Using Gradation from COE ETL 1110-2-120 ***

Computed D30, ft	0.20
Specific Weight, pcf	155.00
Layer Thickness, ft	0.75
Selected Minimum D30, ft	0.37
Selected Minimum D90, ft	0.53

Percent Lighter by Weight	Stone Weight, lbs Minimum	Maximum

W100	14	34
W50	7	10
W15	2	5

Method : 4

USGS Method

Input Parameters:

Run Name: NAME_01 Description: RIPRAP DESIGN FOR OUTLET CHANNEL (WT FRS3)

Average Channel Velocity, ft/sec 4.25

Output Results:

Computed D50, ft 0.34

*** Using Gradation from COE ETL 1110-2-120 ***

Computed D30, ft	0.28
Specific Weight, pcf	155.00
Layer Thickness, ft	0.75
Selected Minimum D30, ft	0.37
Selected Minimum D90, ft	0.53

Percent Lighter by Weight	Stone Weight, lbs Minimum	Maximum
W100	14	34
W50	7	10
W15	2	5

Method : 5

Isbash Method

Input Parameters:

Run Name: NAME_01 Description: RIPRAP DESIGN FOR OUTLET CHANNEL (WT FRS3)

Average Channel Velocity, ft/sec	4.25
Unit Weight of Stone, lbs/cu ft	155.00
Turbulence Level	Low

Output Results:

Computed D50, ft 0.13

*** Using Gradation from COE ETL 1110-2-120 ***

Computed D30, ft	0.11
Specific Weight, pcf	155.00
Layer Thickness, ft	0.75
Selected Minimum D30, ft	0.37
Selected Minimum D90, ft	0.53

(8)

Percent Lighter by Weight	Stone Weight, lbs Minimum	Maximum
W100	14	34
W50	7	10
W15	2	5

Method No : 6

Cal B&SP Method

Input Parameters:

Run Name: NAME_01 Description: RIPRAP DESIGN FOR OUTLET CHANNEL (WT FRS3)

Local Depth Averaged Velocity, ft/sec	4.25
Unit Weight of Stone, lbs/cu ft	155.00
Cotangent of Sideslope	3.00

Output Results:

Computed W33, lb 0.19

*** Using CalTrans Gradation - Placement Method B ***

Gradation Class	Facing
Layer Thickness, ft	1.41

Percent Larger Than	Rock Size
0-5	200 Lb.
50-100	75 Lb.
90-100	25 Lb.

APPENDIX J

PRELIMINARY ASSESSMENT OF SOIL CEMENT MEMORANDUM

PRELIMINARY ASSESSMENT OF SOIL CEMENT
WHITE TANKS FRS NO. 3
MARICOPA COUNTY, ARIZONA
REVISED SEPTEMBER 2004

1.0 INTRODUCTION

1.1 BACKGROUND

The American Concrete Institute (ACI) defines soil cement as a mixture of soil and measured quantities of Portland cement and water, compacted to a relatively high density. Soil cement is prepared by blending, compacting, and curing a mixture of soil, cement, and water. The relative proportions of the materials can be varied in order to control specific engineering properties of the soil cement.

Soil cement will be used to construct the structural core of the embankment for the White Tanks FRS No. 3 rehabilitation design. The shear strength and the erosion resistance of the soil cement element will be key properties for the successful performance of the new embankment. Additional details specific to this project are discussed in Section 1.2.5.

1.2 APPLICATION OF SOIL CEMENT IN DAMS

1.2.1 Soil Cement for Slope Protection

Soil-cement was developed in the U.S., starting in the 1920s, as a means of stabilizing local soils with cement to produce an economical road building base material as an alternative to importing gravel base. In 1951, the use of soil-cement to provide slope protection for earth dams was initiated by the U.S. Bureau of Reclamation (USBR) with construction of a test section at Bonny Reservoir in eastern Colorado. Observation of the test section for the first 10-year period of service indicated excellent performance of the soil-cement, which was subjected to harsh wave action and repeated cycles of freezing and thawing and wetting and drying. This led to the conclusion that use of soil-cement for slope protection was feasible, based on both economical and service life considerations. Since 1961, more than 300 major soil-cement slope protection projects have been built in the United States and Canada.

Since the initial applications of soil cement for erosion protection of embankments and slopes, the number of applications of soil cement in embankment dam engineering have increased. Soil

cement has been used to construct embankment dam cores where low permeability (clays) are not readily available, as well as to construct entire embankments.

1.2.2 Total Dam Cross Section (Hardfill)

At some locations, especially where clay is not available, embankments and dams have been constructed entirely of soil-cement. A soil-cement embankment serves several purposes. It provides slope protection, acts as a water barrier (i.e. the function of a core in an embankment dam), and can be built on relatively steep slopes because of its inherent shear strength properties. Soil cement has also been used as a core (water barrier) in embankment dams. Table 1-1 summarizes several water control projects where soil-cement has been used in the entire embankment or in the core.

TABLE 1-1
Summary of Solid Soil-cement Embankments for Water Control Projects

Project Location	Maximum Height (ft)	Mix Design		PI	Optimum Water Content %	Soil Material	Permeability (m/s)	Remarks
		Percent Cement by weight	Percent Cement by volume					
Barney M. Davis Power Station Cooling Water Reservoir, TX	22	10		N/A	N/A	Beach Sand	N/A	solid soil-cement ring levee
Lubbock Canyon Lakes Project (four dams), TX	12	N/A	12.1	N/A	N/A	N/A	N/A	solid soil-cement embankment capped with concrete
Sylvenstein Dam, Germany	134.5 (41 m)	N/R	N/A	3 to 5	8	65 to- 57% sand 5 to 10% fines	10^{-9} upper part 10^{-5} (10 m below crest)	soil-cement core with 1 to- 2% bentonite added

Note: N/A = Not Available

1.2.3 Soil Cement in Dam Foundation Applications

Soil-cement has been used as a massive fill to provide foundation strength and uniform support under large structures. Table 1-2 summarizes projects where soil-cement has been used to stabilize foundations in dam projects.

TABLE 1-2
Summary of Soil-cement Projects – Foundation Application

Project, Location	Thickness (ft)	Percent Cement by weight	Soil Material	Compressive Strength (psi)	Remarks
Castaic Power Plant, Tail Race and Storm Bypass Channel, CA	2.5	9	N/A	N/A	Compacted soil-cement bottom channel
Cochiti Dam Outlet Works Support, NM	35	5.2	Sand and Gravel 57,700 cy	> 1,000 (28-day)	Soil-cement replaced low-strength shaley clay
Richland Creek Dam, Texas	10	10	N/A	> 1,000 (28-day)	Soil-cement substituted for overburden soil for a 1,200- ft wide spillway
W.G. Huxtable Pump. Plant Foundation Stabilization, AR	23	7	Sands	N/A	Soil-cement pad to increase liquefaction resistance.

Note: N/A = Not Available

1.2.4 Core Walls for Earth Dams

The Portland Cement Association (PCA, 1964) provides guidelines for use of soil cement core walls in embankment dams. PCA (1964) suggests that soil cement core walls are particularly useful in applications where low permeability materials are not readily available. The PCA (1964) document is reproduced in Appendix A.

1.2.5 Application to White Tanks FRS No. 3

As currently planned, the segment of the White Tanks FRS No. 3 embankment within the fissure risk zone will include a soil cement component. The proposed embankment will include a central soil cement structure buried within an earthfill embankment with 0.6:1 (horizontal to vertical) side slopes, 35-foot height, 10-foot crest width, and 52-foot base width.

2.0 MATERIALS

2.1 SOIL

Soil-cement has been constructed using a wide range of soils. Sands with at least 85% passing the No. 4 sieve and 10 to 25% fines (material passing the No. 200 sieve) which have low plasticity and are non-organic have proven to require the least amount of cement. The amount of fines in soil-cement mixtures used on actual projects has ranged from 4 to 38%.

Plasticity of soils used in soil-cement is usually limited to a plasticity index (PI) less than or equal to 8. For comparable durability, clayey soils require higher cement contents than sands. Also, it is more difficult to mix cement into clayey soils than into sandy soils. Clay balls tend to form when the plasticity index is greater than 8. For slope protection and or other applications where soil-cement is exposed to weathering, the clay balls tend to wash out of the soil-cement, which can weaken the overall soil-cement structure. Soils with a PI greater than 8 may be treated with hydrated lime prior to cement stabilization, but no dam applications using both materials have been constructed to date.

According to the USBR, the most desirable soil for soil cement is a silty sand (SM) that has a good distribution of sizes, with 15 to 25% fines, and a maximum particle size between the No. 4 sieve size and about 2 inches. The USBR requires that clay balls greater than 1 inch be removed, and imposes a 10 percent limit on clay balls passing the 1-inch sieve.

The U.S. Army Corps of Engineers (USACE) recommends using soils not containing any material retained on a 2-inch sieve, nor more than 45% retained on a No. 4 sieve, nor more than 35% or less than 5% fines (finer than the No. 200 sieve size). Additionally, the PI of the soil should be equal to or less than 12, and the organic content should be less than 2%. Clay balls greater than 1 inch should be removed, and the minus 1-inch clay ball content should be limited to no more than 10%.

Table 2-1 provides examples of aggregate gradations required by a various agencies for cement-stabilized bank protection.

TABLE 2-1
Aggregate Grading Specification for Bank Protection

Sieve Size	PCA – 1976 (suggested)	Orange County, CA	Albuquerque, NM	Albuquerque, NM	Pima County, AZ [1]	Maricopa County, AZ
	soil-cement	soil-cement	"B" soil-cement	"A" soil-cement	soil-cement	CSA[2]
2 inch	100	100	100			100
1-1/2 inch		98 – 100		100	90 – 100	
¾ inch				80 – 95		
#4	55 – 100	60 – 90	55 – 100	50 – 70	60 – 90	30 – 65
#200	5 – 35	5 – 20	5 – 35	5 – 20	5 – 15	0 – 8
PI			10 max	10 max	3 max	25 max

Notes:
1. Clay and silt lumps larger than ½ inch shall be removed.
2. CSA = Cement Stabilized Alluvium – could be considered roller compacted concrete (RCC).

2.2 CEMENT

Portland cements meeting specifications of ASTM C 150 are suitable. Generally, Type I is used for soil-cement. Where high sulfate soils or water have been encountered, Type II has been specified.

Chemical admixtures are rarely used in soil-cement. Use of fly ash as a replacement for Portland cement is not recommended, because fly ash reduces early age compressive strength and durability when used in soil-cement. The use of fly ash, cement-kiln dust, and aggregate screenings serves to fill the voids in the soil structure and help reduce the cement content. PCA recommends that fly ash, when used, conform to ASTM Specification C 168.

Cement content requirements vary, depending on desired properties and types of soils used. Cement contents generally range from as low to 4 to as high as 16 percent by dry weight of soil. Generally, as the clayey portion of the soil increases, the quantity of cement required increases. Robbins and Mueller (1960) provided initial estimates for the soil-cement mix proportioning, as summarized in Table 2-2. It should be noted that these values are not mix-design recommendations, but rather recommendations of ranges of cement content to consider for initial mix design testing. The actual mix design would be identified from the results of the testing program.

TABLE 2-2
Typical Cement Requirements for Various Soil Types
(Robbins and Mueller, 1960)

AASHTO soil classification	USCS soil classification symbol	Typical range of cement requirement, percent by weight	Typical cement content for moisture-density test (ASTM D 558), percent by weight	Typical cement contents for durability tests (ASTM D 559 and D 506), percent by weight
A-1-a	GW, GP, GM, SW, SP, SM	3-5	5	3-5-7
A-1-b	GM, GP, SM, SP	5-8	6	4-6-8
A-2	GM, GC, SM, SC	5-9	7	5-7-9
A-3	SP	7-11	9	7-9-11
A-4	CL, ML	7-12	10	8-10-12
A-5	ML, MH, CH	8-13	10	8-10-12
A-6	CL, CH	9-15	12	10-12-14
A-7	MH, CH	10-16	13	11-13-15

2.3 WATER

Water serves two purposes, to help obtain maximum compaction and to hydrate the cement, which hardens and binds the soil into a solid mass. Most water is acceptable to use. The only requirement is that the water is free from excessive amounts of alkalis, acids, or organic matter that might inhibit proper hardening of the soil-cement. The USACE recommended guidance on water quality may be found in USACE CRD-C 400.

2.4 POTENTIAL AGGREGATE SOIL AT WHITE TANKS NO. 3

The District has identified two potential borrow sources within the reservoir of the dam, designated as Borrow Areas A and B. In addition, the soils in the vicinity of the current emergency spillway and along the upstream toe of the existing embankment are possible borrow sources. URS reviewed all available geotechnical data to assess the possibility of using the near-surface soils (upper 10 feet) as aggregate for the soil cement. Laboratory test results for all near-surface soil samples obtained during URS' April 2004 investigation, as well as previous investigations, indicate that the fines contents range from 11 to 86 percent, with an average fines content of 43.6 percent, for all samples tested (44 total). The plasticity index (PI) of the near-surface soils ranges from zero (non plastic) to 26, with an average PI of 6.3 percent, for all samples tested (26 total).

Composite samples from Borrow Area A (composite borrow south, or CBS), Borrow Area B (composite borrow north, or CBN), and the embankment borrow source (composite borrow embankment, or CBE) were collected during URS' April 2004 investigation for the purpose of soil cement mix design testing. Percent fines for the CBS, CBN, and CBE samples were 48.7, 62.6, and 40.4 percent, respectively, with an average fines content of 50.6 percent for the three composite samples. The soil cement mix design testing program and results are presented in URS' 2004 White Tanks FRS No. 3 Dam Rehabilitation Geotechnical Data Report (hereafter Geotechnical Report), and summarized in URS' 2004 Design Report for White Tanks FRS No. 3 (hereafter Design Report).

Borrow area soils, if assumed to be blended, classify on average as a silty sand (SM) using the USCS system, and as an A-4 soil using the AASHTO classification system. Based on all available geotechnical data and the results of the mix design testing, near-surface soils from the various borrow areas are considered suitable for use as aggregate for soil cement.

3.0 GENERAL PROPERTIES

The properties of soil-cement are influenced by several factors, including (a) type and proportion of soil, cementitious materials, and water, (b) compaction, (c) uniformity of mixing, (d) curing conditions, and (e) age of the compacted mixture. Because of these factors a wide range of values for specific properties may result.

This section presents a discussion of properties related to soil-cement mixtures and their associated recommended standardized tests. The mentioned test methods have been used by organizations such as the Natural Resources Conservation Service (NRCS), PCA, USACE, and USBR.

3.1 DENSITY

Density of soil-cement is usually measured in terms of dry density, although moist density may be used for field control. The optimum moisture content and maximum dry density for a compacted soil-cement mixture is determined according to ASTM D 588.

Adding cement to a soil generally causes some change in both the optimum moisture content and maximum dry density for a given compactive effort. However, the direction of this change is not usually predictable. The flocculating action of the cement tends to produce an increase in optimum moisture content and a decrease in maximum density, while the high specific gravity of the cement relative to the soil tends to produce an increase in maximum density.

3.2 COMPRESSIVE STRENGTH

Unconfined Compressive Strength is the most widely referenced property of soil-cement and is usually measured according to ASTM D 1633. Strength is dependent on the degree of reaction of the soil-cement mixture and the rate of hardening. Strength is directly related to density and, therefore, it is affected by the degree of compaction and the compaction water content, which control compacted density.

Compressive strength serves as a criterion for determining minimum cement requirements for proportioning soil-cement. The ACI Committee 230 (1997) showed that, for a given soil, a linear relationship can be used to approximate the relationship between compressive strength and cement content, for cement contents up to 15% and a curing period of 28 days (Figure 3-1).

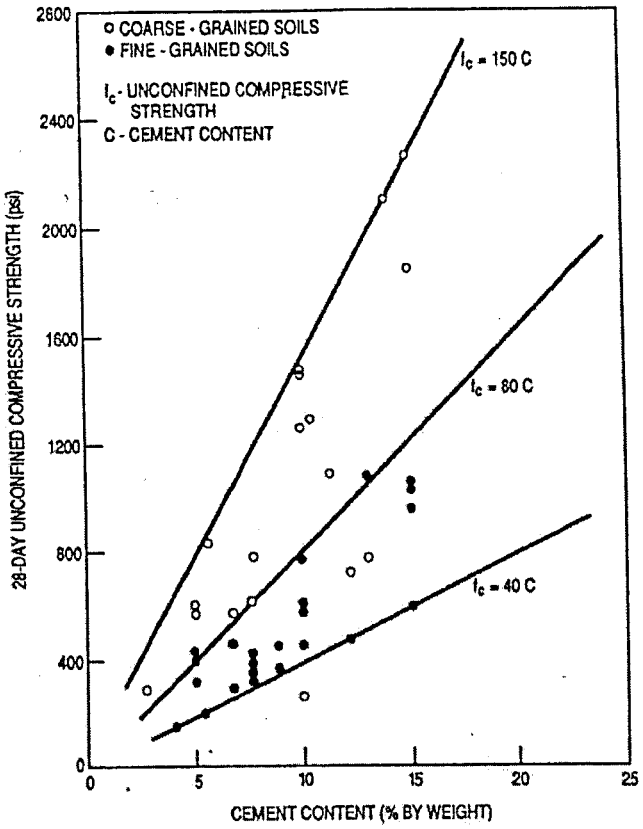


Figure 3-1
Relationship Between Cement Content and Unconfined Compressive Strength for Soil-Cement Mixtures (ACI Committee 230)

Curing time influences strength gain differently for soil cements produced with different types of soils. As shown in Figure 3-2, the rate of strength increase is greater for granular soil-cement than for fine-grained soil-cement, according to the Federal Highway Administration (1979).

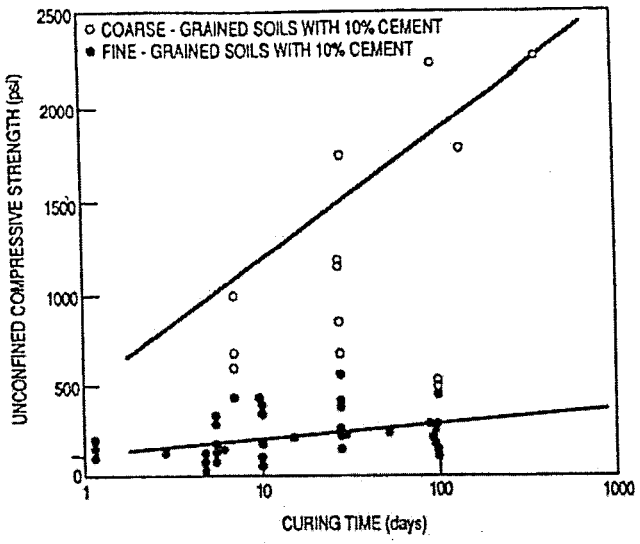


Figure 3-2
Effect of Curing Time on Unconfined Concrete Compressive Strength of Some Soil-Cement Mixtures (Federal Highway Administration 1979)

Compressive strength criteria of five agencies in the Southwest for soil-cement bank protection and grade control structures are given in Table 3-4.

TABLE 3-4
Minimum 7-day Compressive Strength Requirements for Soil-Cement Banks and Grade Control Structures[1]

Agency	Soil-Cement Banks	Grade Control Structures	Comments
Pima County, Tucson, AZ	750 psi	4-ft thick RCC cap over soil-cement	Grade control structures designed by USACE-LA
Maricopa County, Pheonix, AZ[(2)]	750 psi	1,000 psi + 2% [(5)]	Greater bed load conditions than other areas
AMAFCA Albuquerque, NM	750 psi + 2%[(3)]	1,000 psi + 2% [(5)]	Coarser grading for aggregates for grade control structures
Orange County, CA	700 psi + 2%	1,000 psi + 2% [(5)]	
USACE – LA[(4)]	1,000 psi	2,000 psi	Crushed aggregate to produce RCC

Notes:
1. Examples of grade control structures include channel bottoms and spillway crests.
2. Cement stabilized alluvium.
3. Minimum 7% by weight.
4. For use in Maricopa County, AZ.
5. Cement content required to produce specified strength, plus and additional 2 percent cement by dry weight.

For slope protection measures, the USBR requires a minimum compressive strength of 600 psi at 7 days and 875 psi at 28 days.

Of the compressive strength criteria listed above, the criteria judged to be most applicable to the White Tanks FRS No. 3 soil-cement structure is Maricopa County's minimum 7-day compressive strength requirement of 750 psi. However, the long-term compressive strength of the White Tanks FRS soil cement structure is considered to be a better indicator of performance under the design loading conditions (Probable Maximum Flood, or PMF), as the PMF statistically is a long-term event.

3.3 DURABILITY

Along with compressive strength tests, durability tests are conducted on test specimens of soil-cement mixtures to determine adequate cement content. The laboratory durability tests (ASTM D 599 and ASTM D 560) consist of subjecting the compacted specimens to 12 cycles of freezing and thawing (F/T) and/or 12 cycles of wetting and drying (W/D). The entire surface of the test specimen is brushed after each cycle to remove loose particles that have become dislodged during the previous cycle of the test. The minimum cement content is that which produces specimens that remain within specified limits of weight loss after the 12 F/T or W/D cycles, as summarized in Table 3-3.

TABLE 3-3
Summary of Durability Requirements for Wet-Dry Tests

Agency	Soil Type	Maximum Allowable Weight loss, percent
PCA	GW, GP, GM, GC, SW, SP, SM, SC	14[1]
	CL, CH, ML, MH,	10
	CL, CH, OH, MH	7
USBR	Silty Sands[2]	6
USACE	Granular, PI<10	11
	Granular, PI>10	8
	Silt	8
	Clay	6

Notes:
1. 10% is maximum for AASHTO A-2-6 and A-2-7 soils.
2. Developed specifically for soil-cement slope protection. In addition, the USBR requires a minimum compressive strength of 600 psi at 7 days and 875 psi at 28 days.

The final cement content should be the minimum cement content used in specimens that met or exceeded both the durability and compressive strength criteria. PCA compared results of more than 1,700 soil-cement samples tested for both strength and durability. Figure 3-3 illustrates the

general relationship between 7-day compressive strength and durability for soil-cement samples. It is apparent from these curves that a 7-day compressive strength of 800 psi would be adequate from the standpoint of durability for all soils, but this strength would be higher than needed for most soils and would result in a conservative and more costly design for many soils.

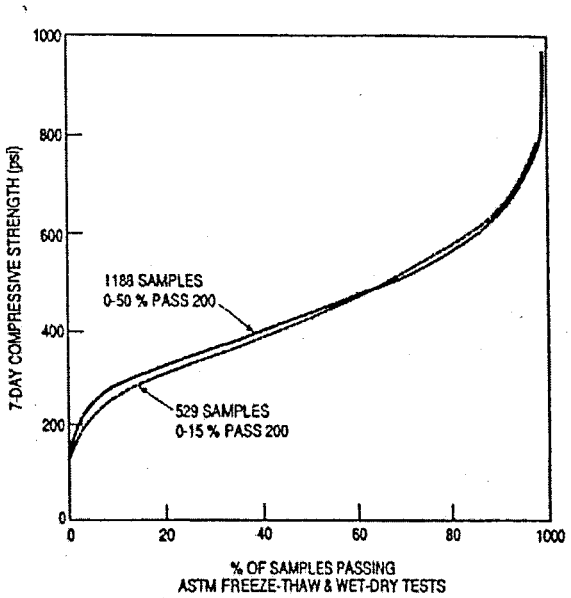


Figure 3-3
Relationship Between Compressive Strength and Durability of Soil-Cement Based on PCA Durability Criteria (PCA, 1992)

Although durability testing is normally conducted for water control structures, durability is considered to be of lesser importance than compressive strength for the White Tanks FRS soil cement structure. The soil cement structure will be blanketed with a thick layer of common fill on both sides, and will not be subjected to repeated cycles of freeze/thaw and wetting/drying, as is the case with water control structures with permanent pools, located in harsh climates. The laboratory tests used to measure durability – freeze/thaw and wet/dry tests – were therefore judged to not be representative of the climatic exposure that the FRS soil-cement core will experience, and consequently were not performed as part of the mix design testing program.

Generally, once a cement content has been established based on the strength and durability tests, an additional 2% of cement is generally specified for construction of water control projects. This additional cement is intended to account for 1) the more severe effects of water exposure in these structures, as compared to in road base applications, according to PCA, and 2) field variations in the soil and the mixing process, according to the USBR.

3.4 SHRINKAGE CRACKING

Cement treated soils undergo shrinkage during drying. The shrinkage and subsequent cracking depend on cement content, soil type, water content, degree of compaction, and curing conditions. Soil-cements made from different soil types produce different crack patterns. Soil-cement made from clay develops higher total shrinkage, but crack widths are smaller and individual cracks more closely spaced (e.g. hairline cracks, spaced 2 to 10 ft apart). Soil-cement made with granular soil produces less total shrinkage, but larger cracks spaced at greater intervals (usually 10 to 20 ft or more apart). Methods suggested for reducing or minimizing shrinkage cracks include keeping the soil-cement surface moist beyond the normal curing periods and placing the soil-cement at slightly below optimum moisture content.

Laboratory tests were conducted by Nussbaum and Colley (1971) to obtain design factors for the application of soil-cement in earth dams as slope protection, impermeable barriers, and erosion-resistant surfaces in areas of rapid flow. The results showed that shrinkage cracks in the upstream soil-cement facings do not increase seepage through the dam by appreciable quantities when compared to a condition without cracks.

Some shrinkage cracking is expected to occur in the White Tanks FRS No. 3 soil cement structure, as the soil cement mix will have a considerable fines content and will be exposed to the hot, dry climatic conditions of the Phoenix area. However, even if the wetted front penetrates the soil cement core during an extreme flood, seepage through the core would not increase by appreciable quantities, as indicated above.

3.5 EROSION RESISTANCE

Because soil-cement contains very little, if any, coarse aggregate, its erosion resistance is invariably controlled by the compressive strength produced by the cement paste. It has been shown in both the laboratory and the field that properly designed soil-cement can withstand the flow of clean water up to a velocity of 20 ft/sec with little erosion damage.

For higher flow velocities or abrasive erosion conditions, the compressive strength needs to be increased or roller compacted concrete (RCC), with coarse aggregate, should be used. Means for increasing the strength of soil-cement exposed to more severe erosion conditions include modification to the mixture proportions, increased degree of compaction on exposed soil-cement surfaces, and extending the curing period. Methods for increasing compressive strength of the soil-cement by mixture proportion adjustments include increasing the cement content, changing to a coarser, more well-graded aggregate, or adding coarse aggregate to a finer sand or silty sand.

In the White Tanks FRS No. 3 application, the compressive strength of the soil cement section will govern erosion resistance. With an adequate compressive strength, the soil cement structure will be able to withstand the erosive forces caused by water flow along a potential transverse crack through the soil cement section.

3.6 PERMEABILITY

Permeability of most soils is reduced by the addition of cement. Table 3-4 summarizes the results from laboratory permeability tests conducted on a variety of soil types according to PCA (1986). Based on published data, the hydraulic conductivity of soil-cement material can range from about $1x10^{-5}$ to $1x10^{-8}$ cm/sec, depending on the fines content of soil in the mix, cement content of the mix, delay time between lift compaction, and whether flow is normal or parallel to the lifts. Permeabilities of cement-treated soils are provided on Figure 1 and Table 1 in Appendix A for soil cements produced from a wide range of soil types, according to PCA data (PCA, 1969).

A hydraulic conductivity value of $1x10^{-7}$ cm/sec was selected for use in seepage modeling for the White Tanks FRS No. 3, which is representative of a mix with AASHTO A-4 type soil, an 8 percent cement content, and assumes flow parallel to the lifts. Blended on-site soil, which was used in the soil-cement mix, compares most closely with AASHTO A-4 soil.

TABLE 3-4
Permeability of Cement-Treated Soils (PCA, 1986)

ASTM soil classification	Dry density lb/ft^3	Moisture content, percent	Cement content percent by weight	*K*, coefficient of permeability ft per yr, 10^{-6} cm/sec	Gradation analysis, percent passing						
					#4 (4.75 mm)	#10 (2.0 mm)	#40 (425 μm)	#200 (75 μm)	.005 mm	.0005 mm	Cement required by weight
Standard Ottawa sand	108.2 112.8 117.6	10.8 9.4 9.7	0 5.3 10.5	48,800 6900 76	(100 percent passing #20 (850 μm): 0 percent passing #30 (600 μm)						-
Graded Ottawa sand	103.2 104.7 107.4	13.7 13.6 12.3	0 5.4 10.5	16,300 470 21	100	100	28	2	-	-	-
Fine sand (SP)	101.0 100.9 103.6 105.3	12.2 13.2 12.3 12.0	0 3.2 6.5 9.5	750 560 190 21	100	100	91	7	1	-	11.5
Silty sand (SM)	100.8 99.9 104.0	14.9 14.7 15.1	0 3.2 6.4	5000 1400 60	100	100	96	13	12	2	8.0
Fine sand (SP)	100.1 105.8 109.3	16.0 14.8 13.5	0 6 12.2	360 20 1	99	--	96	6	6	1	-
Fine sand (SP)	101.0 106.7 108.2 108.8	13.8 13.3 13.4 13.4	0 3.1 6.3 9.6	140 33 0.3 0.02	100	100	94	2	-	-	11.0
Fine sand (SP)	112.5 115.8	11.0 10.4	0 5.5	36 5	-	97	-	-	11	4	-
Fine sand (SP)	111.7 115.2	12.0 11.7	0 5.5	23 8	100	99	-	-	9	3	-
Silty sand (SM)	121.9 125.5	9.6 8.0	0 8.6	16 0.1	98	94	66	20	18	5	-
Silty sand (SM)	117.9 123.0	10.8 8.1	0 8.9	10 2	99	97	69	16	12	4	-
Silty sand (SM)	112.5 115.0	11.5 12.3	0 5.5	5 3	-	98	-	-	12	5	-
Silty sand (SM)	118.7 119.2	11.0 10.5	1 9.1	5 0.1	100	99	88	36	25	7	-
Silty sand (SM)	125.0	- 10.1	0 3.3 7.3	16 0.4 0.07	100	75	41	13	12	5	5.0

4.0 DESIGN MIX TESTING PROGRAM FOR WHITE TANKS FRS NO. 3

A mix design testing program was performed to evaluate the performance of soil-cement mixes prepared with on-site near-surface soils and a range of cement contents. Nine trial mixes were prepared using soil from the three potential borrow areas mentioned previously, and using three cement contents (3, 6, and 9 percent). Standard Proctor tests, grain size analyses, and Atterburg limit tests were performed on composite soil samples from the three borrow areas. Standard Proctor tests were also performed on each of the 9 soil-cement trial mixes. Test cylinders were subjected to unconfined compressive tests after 3, 7, 14, 28, and approximately 90 days of curing. A more detailed description of the mix testing program is provided in URS' 2004 Geotechnical Report.

4.1.1 Mix Design Test Results

Mix design test results are summarized below and are presented in detail in URS' 2004 Geotechnical Report. Of the three potential borrow sources, composite soil from the embankment borrow source (EBS) produced mixes that had the highest compressive strengths. The EBS composite sample also had the lowest fines content (40 percent). Composite samples from Borrow Areas A and B had fines contents of 49 and 63 percent, respectively. Composite samples from all three borrow sources produced mixes that achieved Maricopa County's 7-day compressive strength criteria of 750 psi. However, the cement content required to meet this criteria differed, depending on the composite soil borrow source: 5 percent cement content for the embankment borrow source, 6 percent for Borrow Area B, and 7.5 percent for Borrow Area A. A minimum cement content of 7.5 percent would therefore provide maximum flexibility during construction, so that soil from any of the three potential borrow sources could be used and still meet the 750 psi criteria. However, to account for field variations in the soil and mixing process, the minimum cement content should be increased to 9 percent.

Compressive strength showed substantial increases at test time intervals of 14, 28 and approximately 90 days. Ninety-day compressive strengths for 9-percent cement mixes ranged from 1360 psi to 1610 psi (approximately double the 7-day strengths). Although the average on-site soil fines content is in the 45 to 50 percent range, and exceeds the industry-standard fines-content range of 4 to 38 percent and Maricopa County's criteria for 0 to 8 percent fines, use of on-site soils and a 9-percent cement content is judged to be acceptable, based on achievement of compressive strength criteria. Additionally, an average PI of 6.3, obtained by averaging PI's of 26 shallow soil samples (0 to 10 feet bgs), meets Maricopa County's maximum PI criteria of 25.

Athough no significant mixing problems occurred in the controlled laboratory conditions, a greater mixing effort may be required during field mixing due to the high fines content and variability of the on-site soils. Clay ball formation during field mixing is possible, and may require greater mixing energy to disperse the clay balls. However, the possible formation of clay balls in the field should not have a significant impact on workability and performance, based on the results of the mix design testing program.

5.0 CONCLUSION

This memorandum documents the results of a preliminary assessment of soil cement for use White Tanks FRS No. 3, and summarizes the results of the mix design testing program conducted using on-site soils and thee cement contents. Based on the preliminary assessment and mix design test results, it appears that near-surface soils from any of the potential borrow sources at the site would be suitable for use as aggregate in the soil cement embankment proposed for the project.

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Appendix A

Soil-Cement Core Walls For Earth Dams, (PCA 1964)

INTRODUCTION

The use of soil-cement core walls is suggested by the expense and difficulty involved in obtaining impervious cores from natural materials in many areas, coupled with the recent successful development of soil-cement slope protection for earth dams. Where only relatively pervious materials exist at the site, the use of a soil-cement core is strongly indicated. A wide range of soils can be used to make virtually impermeable soil-cement, as illustrated in Fig. 1 and Table 1. This demonstrates the feasibility of soil-cement core walls and makes their use primarily a question of economics.

PLANNING

In the planning stage of the project, the following considerations are of importance:

1. The use of a soil-cement core wall will usually allow construction of the dam at the location most desirable from the functional standpoint. This will minimize the cost of other facilities.

2. The permeability and structural properties of any particular soil-cement mixture can be accurately determined. Design procedures can therefore be more refined, as compared to the larger safety factors required for un-stabilized cores.

DESIGN

In the design of a soil-cement core wall, it is necessary to utilize proper procedures to ensure the structural and hydraulic integrity of the entire facility, as is the case with any core material. The size, location, and other details of the soil-cement core wall will depend on individual project conditions. As a general guide to the designer, the following recommendations are offered (see Fig. 2):

1. The soil-cement should have a permeability ("k" value) of less than 1 ft. per year. The cement content required to obtain this degree of impermeability for any given soil should be determined by a reliable testing laboratory. The standard wet-dry, freeze-thaw, and compressive strength tests should also be made in order to verify the absence of any substance in the soil or water which would inhibit hardening of the soil-cement.

2. A key or cutoff trench of soil-cement should be provided to increase the seepage path and bond the core to the foundation. The depth of the cutoff trench should be determined in accordance with a competent investigation of the foundation conditions.

3. The minimum width of the soil-cement core wall at any elevation should be about one-fourth to one-tenth the height of the dam above that elevation. The exact dimension selected should be determined by allowable seepage conditions through the dam, foundation conditions, size of the dam, desirable safety factors and practical construction considerations.

4. The soil-cement should be central-plant mixed in order to obtain maximum homogeneity of the product. See "Suggested Specifications: Soil-Cement Slope Protection For Earth Dams" (Portland Cement Association) for applicable provisions.

5. The soil-cement should be placed in layers of not more than 6 in. compacted thickness.

6. Succeeding layers should be placed as quickly as is practicable on completed layers. Each completed layer surface should be kept clean and moist until covered with the next layer.

Soil-cement is an extremely versatile and economical material with properties similar to concrete. Soil-cement gains steadily in strength while in service, typically doubling its 28-day strength in a few years. It can be used with confidence in many new applications with proper consideration of its engineering properties. The use of soil-cement for the core of an earth dam will give the engineer additional freedom in site selection and more accurate design factors, thus leading to improved performance and reduced costs.

Portland Cement Association, Water Resources Bureau, June 1964

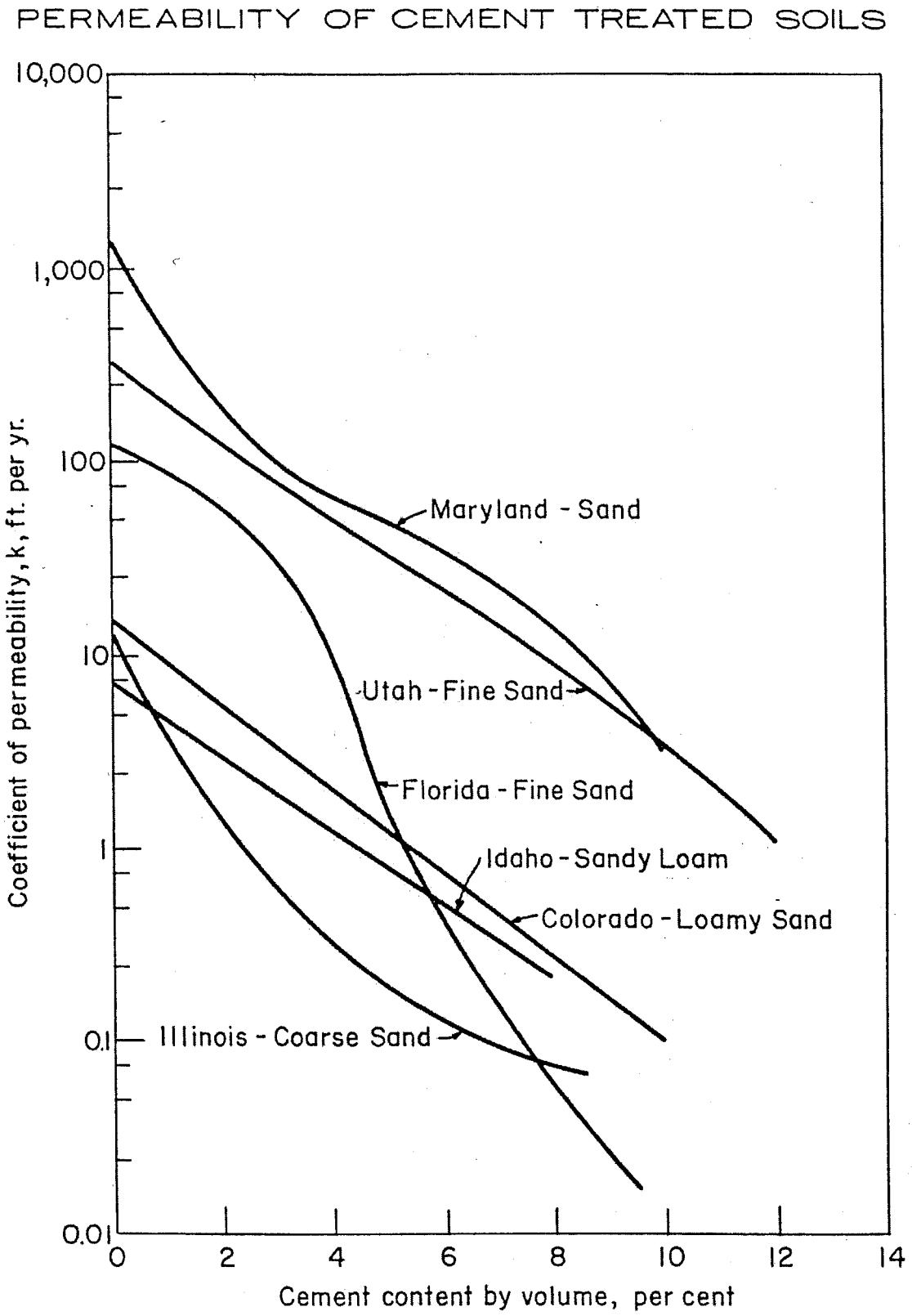

PERMEABILITY OF CEMENT TREATED SOILS
10,000
1,000
100
10
1
0.1
0.01
Coefficient of permeability, k, ft. per yr.
Maryland - Sand
Utah - Fine Sand
Florida - Fine Sand
Idaho - Sandy Loam
Colorado - Loamy Sand
Illinois - Coarse Sand
0
2
4
6
8
10
12
14
Cement content by volume, per cent

FIG. I

Table I—PERMEABILITY OF CEMENT-TREATED SOILS

Curve No.	Soil No. or Sample Identification	Dry Density P. C. F.	Moisture Content %	Cement Content % by Vol.	Type of Soil-Cement	K, Coefficient of Permeability, Ft. Per Year	U. S. D. A. Texture	Gradation Analysis % Passing 3/4	4	10	40	200	.05	.005	AASHO Soil CLASS (1)	Cement Req't. by Vol. (2)
1	P. C. A. Soil No. 6863-2 Maryland	104.9	10.3	0	Compacted	1,640	Sand	100	100	100	77	4	--	--	A-3(0)	8.5
		106.6	10.8	3.3	Compacted	90.3										
		112.4	10.3	6.8	Compacted	25.6										
		114.4	10.3	10	Compacted	3.6										
2	SP Sand, 11 H-X65 Utah	100.1	16.0	0	Compacted	356	Fine Sand	100	99	99	96	6	6	1	A-3(0)	--
		105.8	14.8	6	Compacted	19.8										
		109.3	13.5	12	Compacted	1.1										
3	P. C. A. Soil No. 7019 Florida	101.0	13.8	0	Compacted	144	Fine Sand	100	100	100	94	2	--	--	A-3(0)	11.0
		106.7	13.3	3.1	Compacted	33										
		108.2	13.4	6.5	Compacted	0.3										
		108.8	13.4	9.5	Compacted	0.02										
4	13N-421 (SP Med) Fine Sand, Colo.	121.9	9.6	0	Compacted	16	Loamy Sand	99	98	94	66	20	18	5	A-2-4(0)	--
		125.5	8.0	10	Compacted	0.1										
5	SF Silty Soil 11 H-27, Idaho	-	-	0	Plastic	7.4	Sandy Loam	100	100	99	86	34	31	11	A-2-4(0)	--
		105.2	20.0	8	Plastic	0.2										
6	P. C. A. Soil S-1 Illinois	-	-	0	Compacted	15.8	Coarse Sand	100	100	75	41	13	12	5	A-1-b(0)	6.0
		125.0	10.1	3.8	Compacted	0.39										
				8.7	Compacted	0.07										

(1) All soils non-plastic.
(2) Cement requirement based on ASTM Standard Freeze-Thaw and Wet-Dry Tests for Soil Cement Mixtures.

SUGGESTED DESIGN OF SOIL-CEMENT CORE WALL FOR EARTHFILL DAMS

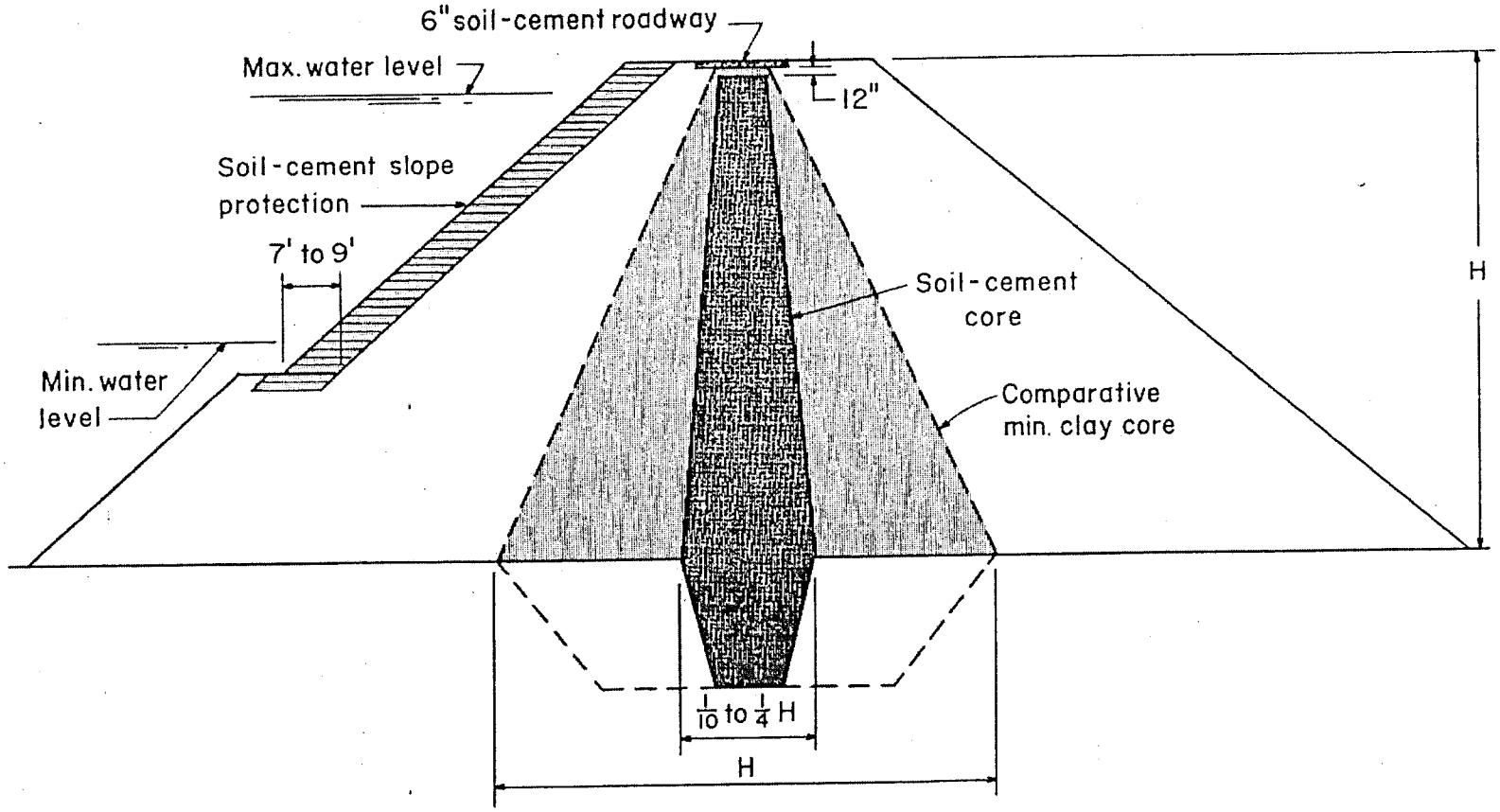


FIG. 2

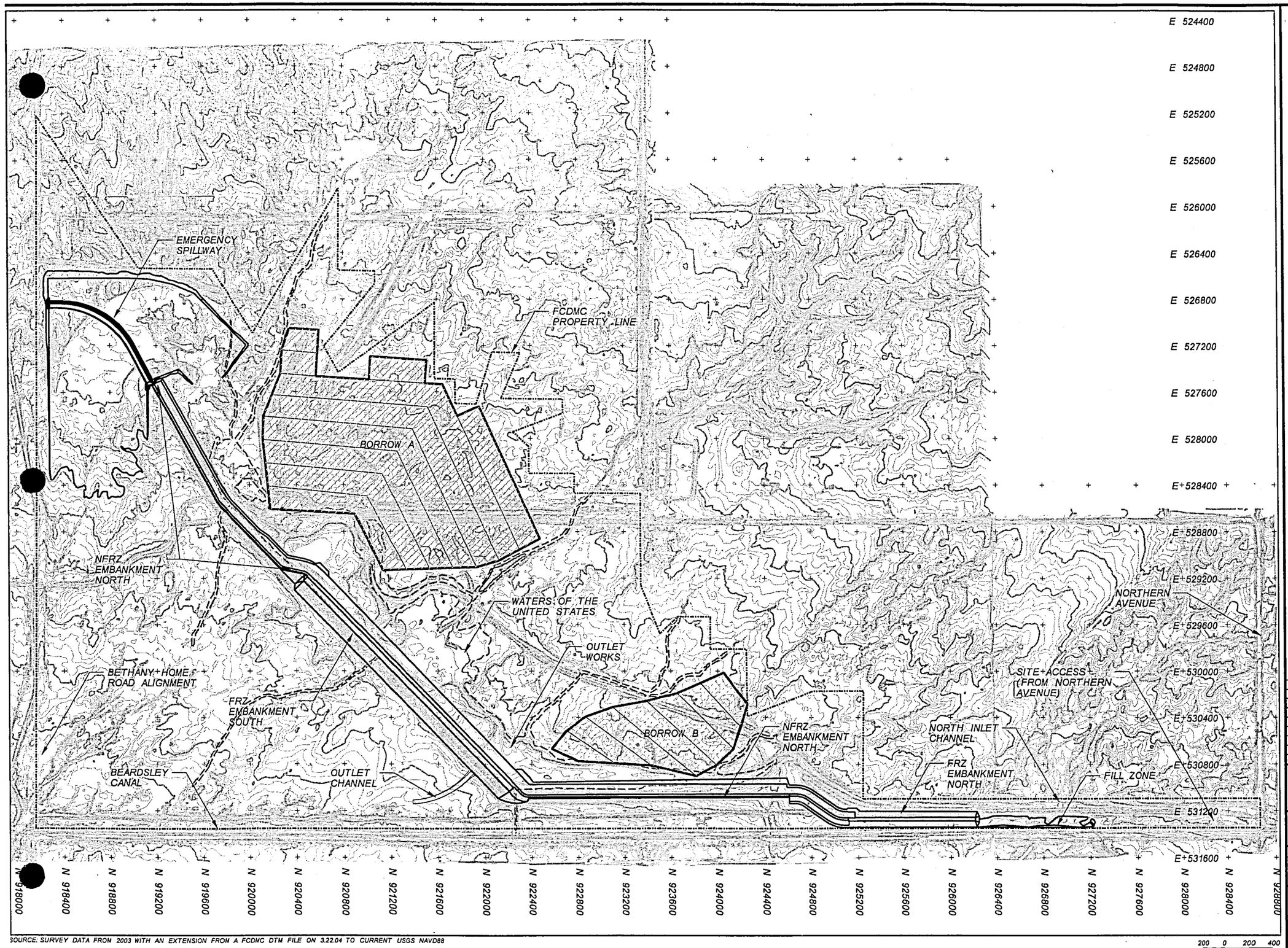
APPENDIX K

CALCULATION PACKAGES – QUANTITY ESTIMATES

The Fissure Erosion Modeling Report is not included with this submittal. It will be included with the 100 Percent Design Report.

APPENDIX L

PHASE 2 DESIGN CONCEPTS



SOURCE: SURVEY DATA FROM 2003 WITH AN EXTENSION FROM A FCDMC DTM FILE ON 3.22.04 TO CURRENT USGS NAVD88

P:\FCDMC\23443698 White Tanks\cadd\P1\Appendix\WT3_L1-P1-REVC.dgn

XREFS: FCDMC TOPO.DGN,NEW CREST ALIGNMENT.DGN,52604_TOPO.DGN,BORROW SOURCE.DGN,WHITETANKS3,WOFUS.DGN,ESPILLWAY.DGN,WT3_CHANNELDGN,PL-FCD.DGN

200 0 200 400
Scale in Feet
ONE FOOT CONTOURS

TWO WORKING DAYS BEFORE YOU DIG, CALL
263-1100
BLUE STAKE

NO.	REVISION	BY	DATE
C	90% DESIGN SUBMITTAL APPENDIX	TER	9-04
B	60% DESIGN SUBMITTAL	TER	6-04
A	30% DESIGN SUBMITTAL	TER	4-04

ADWR APPROVAL

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

WHITE TANKS FRS NO 3
REMEDIATION DESIGN - PHASE 2

PRELIMINARY NOT FOR CONSTRUCTION

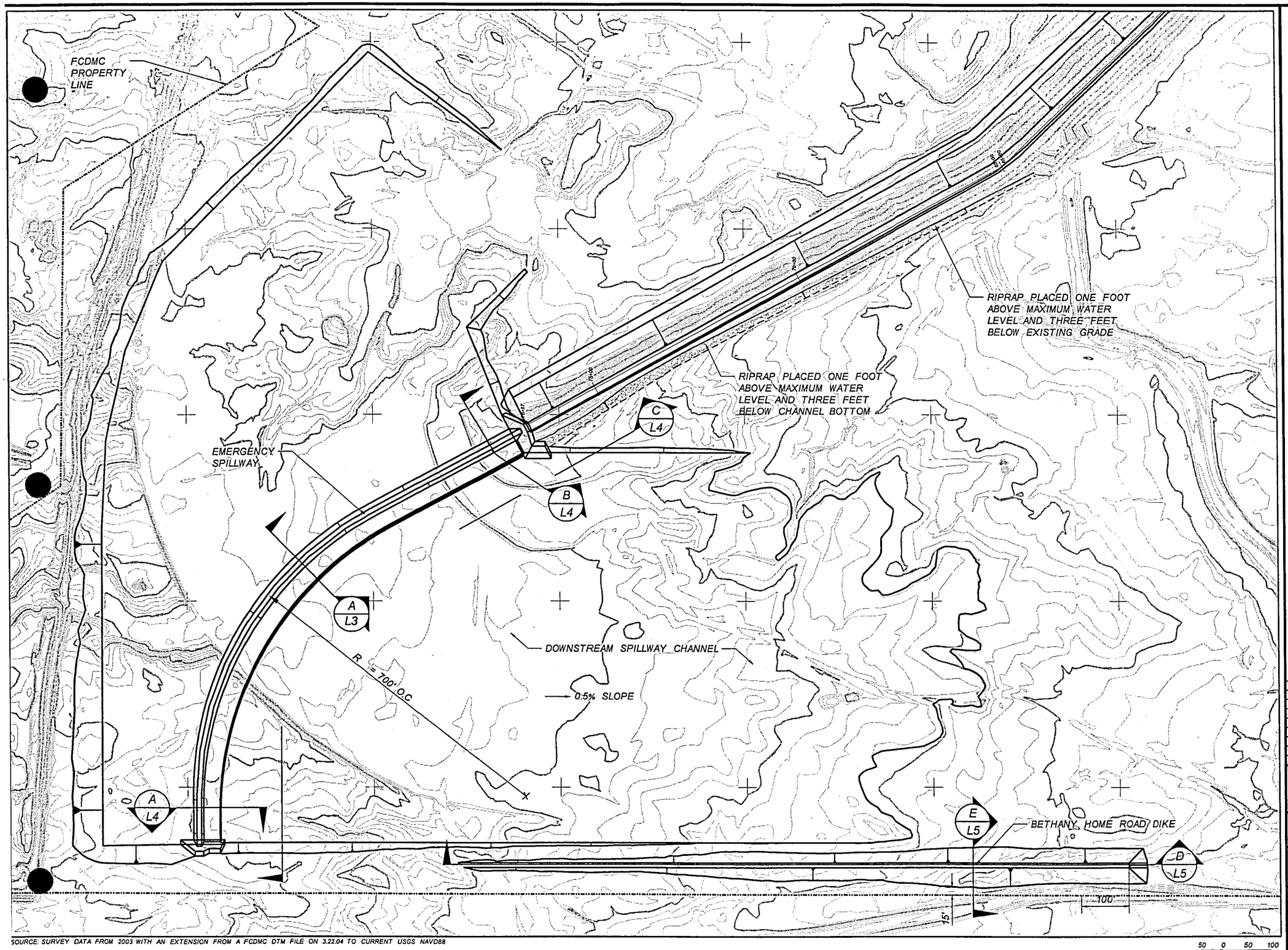
	BY	DATE
DESIGNED	CDW	8-04
DRAWN	MSJ	8-04
CHECKED	TER	8-04

URS
7720 NORTH 16TH STREET
SUITE 100
PHOENIX, AZ 85020

DRAWING NO. L1

GENERAL SITE PLAN

SHEET OF



SOURCE: SURVEY DATA FROM 2003 WITH AN EXTENSION FROM A FCDMC DTM FILE ON 3.22.04 TO CURRENT USGS NAVD88

P:\FCDMC\23443698 White Tanks\cadd\P1\Appendix\WT3_L2-P1-REVC.dgn

XREFS: 52604_TOPO.DGN, PL-FCD.DGN

50 0 50 100
Scale in Feet

ONE FOOT CONTOURS

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NO.	REVISION	BY	DATE
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A	30% DESIGN SUBMITTAL	TER	4-04

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7720 NORTH 16TH STREET
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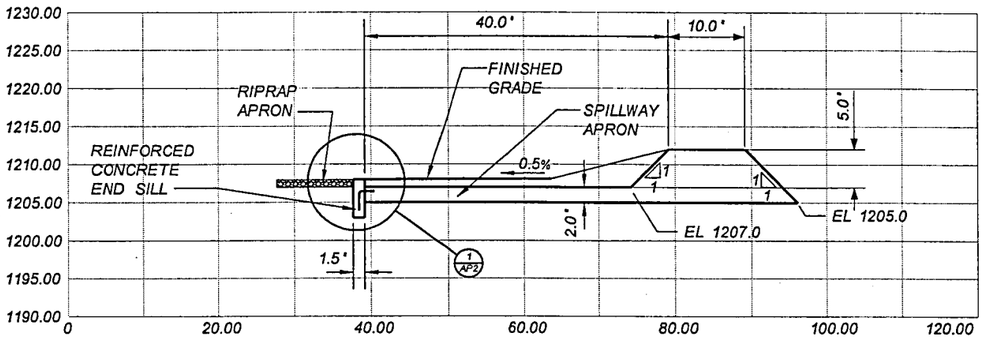
PHOENIX, AZ 85020

DRAWING NO. L2

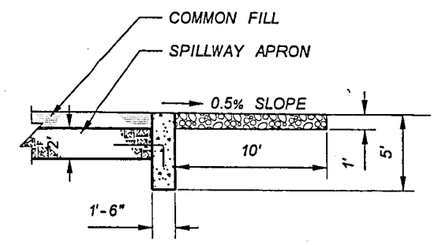
EMERGENCY SPILLWAY PLAN

SHEET OF



ELEVATION — A
EMERGENCY SPILLWAY — L2

5 0 5 10
Scale in Feet



SECTION/DETAIL — 1
REINFORCED CONCRETE CUTOFF WALL ALTERNATIVE — L2

2.5 0 2.5 5
Scale in Feet

TWO WORKING DAYS BEFORE YOU DIG, CALL
263-1100
BLUE STAKE

NO.	REVISION	BY	DATE
B	90% DESIGN SUBMITTAL APPENDIX	TER	9-04
A	60% DESIGN SUBMITTAL	TER	6-04

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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
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WHITE TANKS FRS NO. 3
REMEDIATION DESIGN - PHASE 2

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DESIGNED	CDW	8-04
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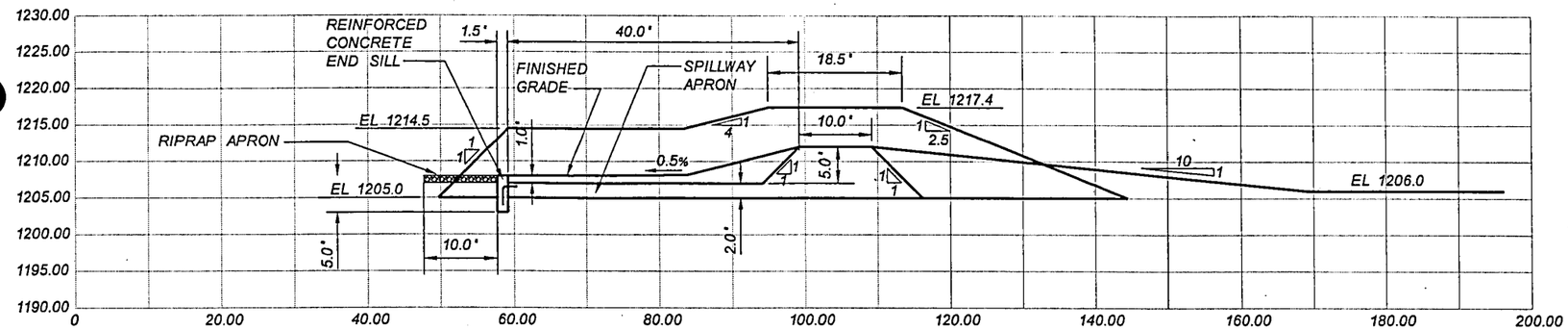
DRAWING NO. L3

EMERGENCY SPILLWAY SECTIONS AND DETAILS

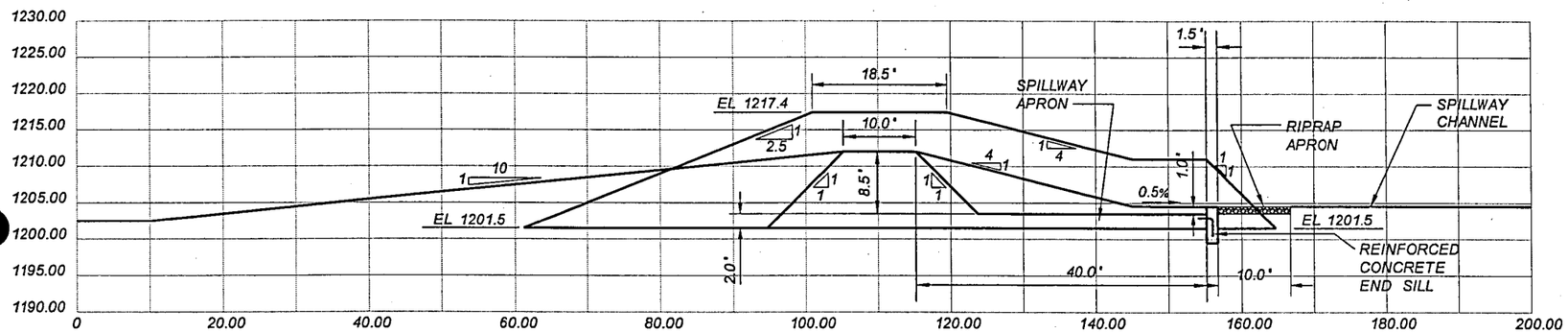
SHEET OF

P:\FCDMC\23443698 White Tanks\cadd\P1\Appendix\WT3_L3-P1-REVB.dgn
(REFS: XSEC-7.DGN, XSEC-14.DGN, PL-FCD.DGN



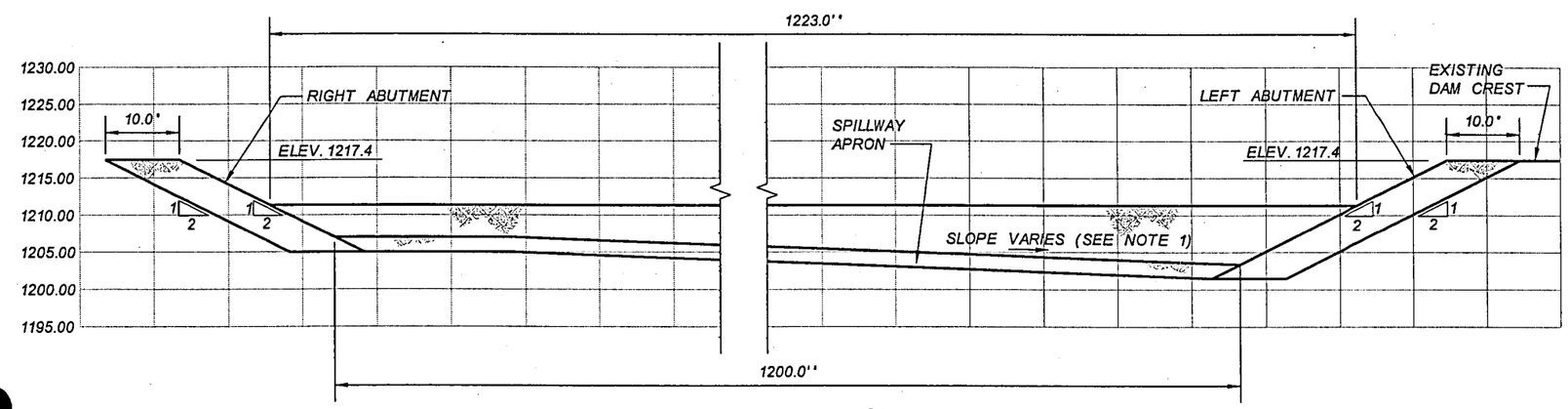
ELEVATION A
EMERGENCY SPILLWAY L4
RIGHT ABUTMENT

5 0 5 10
Scale in Feet



ELEVATION B
EMERGENCY SPILLWAY L4
LEFT ABUTMENT

5 0 5 10
Scale in Feet



ELEVATION C
EMERGENCY SPILLWAY L4
ABUTMENT TO ABUTMENT

5 0 5 10
Scale in Feet

TWO WORKING DAYS BEFORE YOU DIG, CALL
263-1100
BLUE STAKE

NO.	REVISION	BY	DATE
B	90% DESIGN SUBMITTAL APPENDIX	TER	9-04
A	60% DESIGN SUBMITTAL	TER	6-04

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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

WHITE TANKS FRS NO. 3
REMEDIATION DESIGN - PHASE 2

PRELIMINARY NOT FOR CONSTRUCTION

	BY	DATE
DESIGNED	CDW	8-04
DRAWN	MSJ	8-04
CHECKED	TER	8-04

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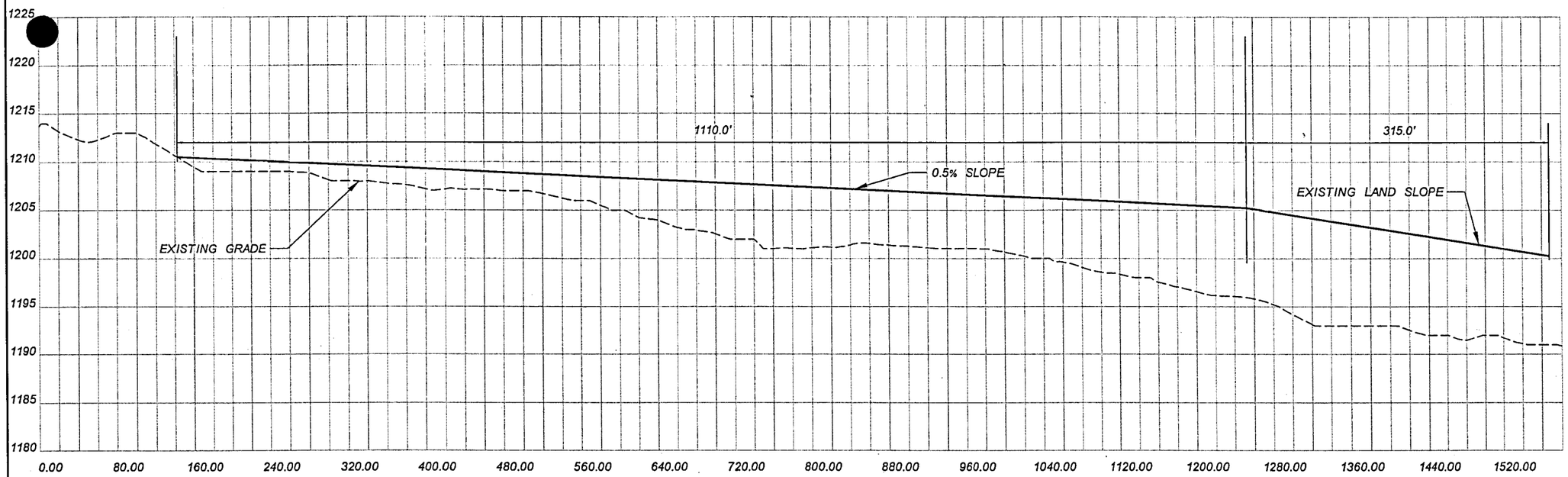
SUITE 100
PHOENIX, AZ 85020

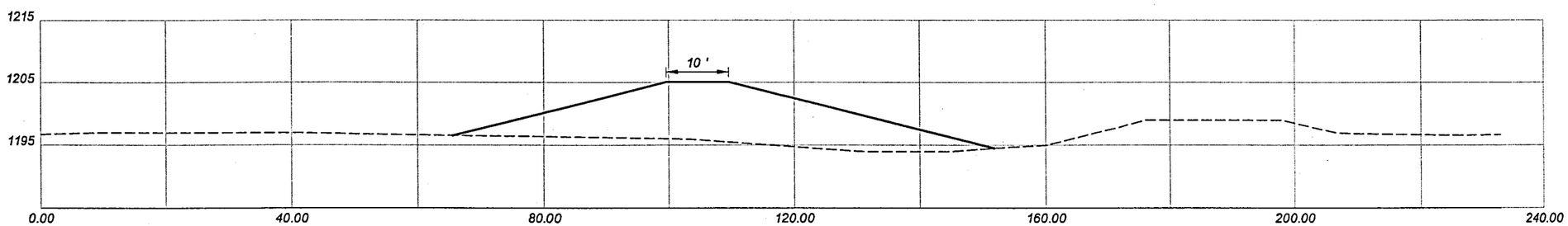
DRAWING NO. L4
EMERGENCY SPILLWAY SECTIONS AND DETAILS
SHEET OF

P:\FCDMC\23443698 White Tanks\cadd\P1\Appendix\WT3_L4-P1-REVB.dgn
XREFS: XSEC-14.DGN, PL-FCD.DGN



PROFILE
BETHANY HOME ROAD DIKE (D / L2)

30 0 30 60
Scale in Feet



SECTION
BETHANY HOME ROAD DIKE (E / L2)

5 0 5 10
Scale in Feet

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BLUE STAKE

NO.	REVISION	BY	DATE
A	90% DESIGN SUBMITTAL APPENDIX	TER	9-04

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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

WHITE TANKS FRS NO. 3
REMEDIATION DESIGN - PHASE 2

PRELIMINARY NOT FOR CONSTRUCTION

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DRAWN	MSJ	9-04
CHECKED	TER	9-04

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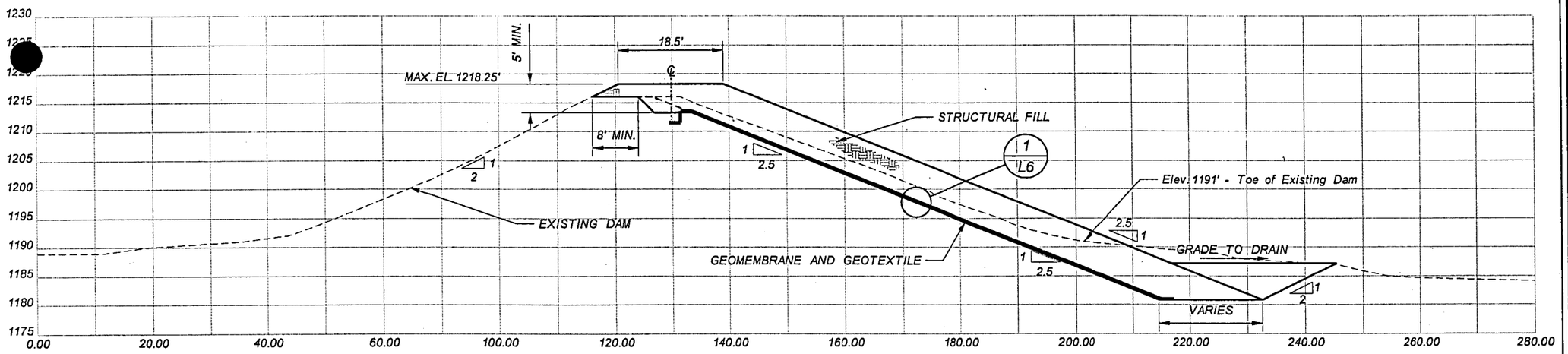
SUITE 100
PHOENIX, AZ 85020

DRAWING NO. L5

BETHANY HOME ROAD DIKE
PROFILE AND SECTION

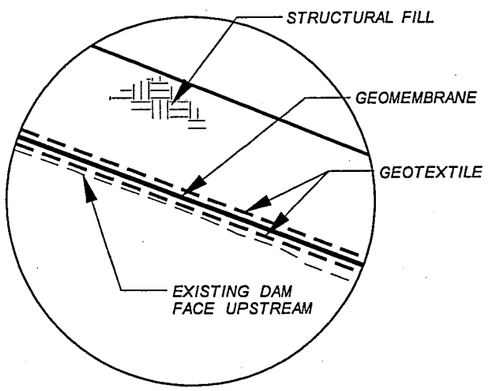
SHEET OF

P:\FCDMC\23443698 White Tanks\cadd\P1\Appendix\WT3_L5-P1-REVB.dgn



SECTION A
NORTH NON-FISSURE RISK ZONE EMBANKMENT

5 0 5 10
Scale in Feet



DETAIL 1 / L6
GEOMEMBRANE AND GEOTEXTILE
NOT TO SCALE

TWO WORKING DAYS BEFORE YOU DIG, CALL
263-1100
BLUE STAKE

NO.	REVISION	BY	DATE
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B	60% DESIGN SUBMITTAL	TER	6-04
A	30% DESIGN SUBMITTAL	TER	4-04

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WHITE TANKS FRS NO. 3
REMEDIATION DESIGN - PHASE 2

PRELIMINARY NOT FOR CONSTRUCTION

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CHECKED	TER	8-04

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PHOENIX, AZ 85020

DRAWING NO. L6
NORTH NFRZ EMBANKMENT SECTIONS AND DETAILS
SHEET OF

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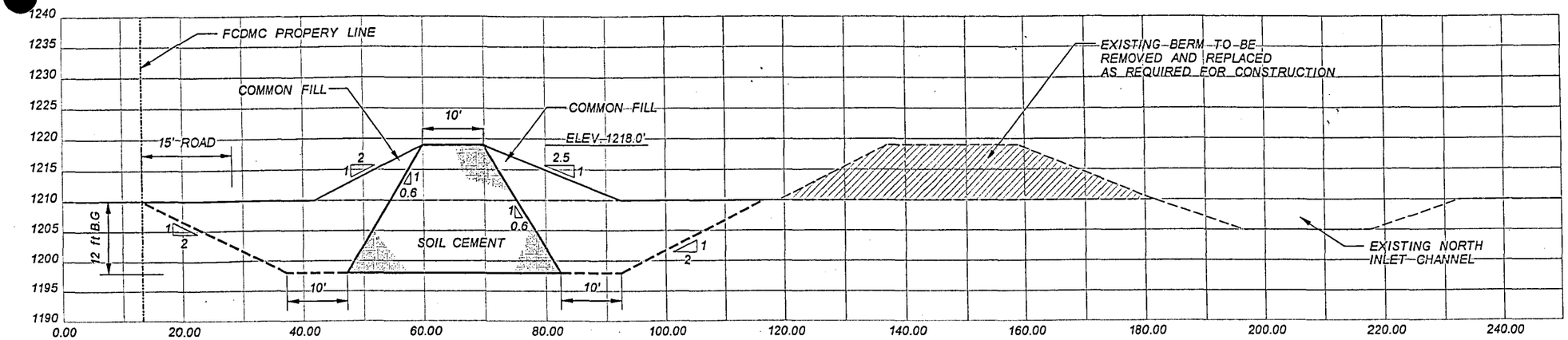
XREFS: XSEC-5.DGN, PL-FCD.DGN



SECTION A

NORTH FISSURE RISK ZONE
EMBANKMENT EXTENSION
STA. 0+00

5 0 5 10
Scale in Feet

TWO WORKING DAYS
BEFORE YOU DIG, CALL
263-1100
BLUE STAKE

NO.	REVISION	BY	DATE
A	90% DESIGN SUBMITTAL APPENDIX	TER	9-04

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FLOOD CONTROL DISTRICT
OF MARICOPA COUNTY
ENGINEERING DIVISION

WHITE TANKS FRS NO 3
PCN 470.04.30
FCD CONTRACT NO. 2003CO55

PRELIMINARY
NOT FOR
CONSTRUCTION

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DESIGNED	CDW	9-04
DRAWN	MSJ	9-04
CHECKED	TER	9-04

URS
7720 NORTH 16TH STREET
SUITE 100
PHOENIX, AZ 85020

DRAWING NO. L7

NORTH FISSURE RISK ZONE
EMBANKMENT SECTIONS

SHEET O

p:\FCDMC\23443698 White Tanks\CADD\P1\Appendix\WT3_L7-P2-REVC.dgn
XREFS: PL-FCD.DGN XSEC-5.DGN