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Dambreak Analysis of Cave Buttes Dam Near Phoenix, Arizona

Prepared for

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APPENDIX A
BREACH EROSION MODEL OUTPUT

BREACH: AN EROSION MODEL FOR EARTHEN DAM FAILURES

by D.L. Fread*

January, 1985

ABSTRACT. A physically based mathematical model (BREACH) to predict the breach characteristics (size, time of formation) and the discharge hydrograph emanating from a breached earthen dam is presented. The earthen dam may be man-made or naturally formed by a landslide. The model is developed by coupling the conservation of mass of the reservoir inflow, spillway outflow, and breach outflow with the sediment transport capacity of the unsteady uniform flow along an erosion-formed breach channel. The bottom slope of the breach channel is assumed to be essentially that of the downstream face of the dam. The growth of the breach channel is dependent on the dam's material properties (D_{50} size, unit weight, friction angle, cohesive strength). The model considers the possible existence of the following complexities: 1) core material having properties which differ from those of the outer portions of the dam; 2) the necessity of forming an eroded ditch along the downstream face of the dam prior to the actual breach formation by the overtopping water; 3) the downstream face of the dam can have a grass cover or be composed of a material of larger grain size than the outer portion of the dam; 5) enlargement of the breach through the mechanism of one or more sudden structural collapses due to the hydrostatic pressure force exceeding the resisting shear and cohesive forces; 5) enlargement of the breach width by slope stability theory; and 6) initiation of the breach via piping with subsequent progression to a free surface breach flow. The outflow hydrograph is obtained through a time-stepping iterative solution that requires only a few seconds for computation on a main-frame computer. The model is not subject to numerical stability or convergence difficulties. The model's predictions are compared with observations of a piping failure in the man-made Teton Dam in Idaho and a breached landslide-formed dam in Peru. Also, the model has been used to predict possible downstream flooding from a potential breach of the landslide blockage of Spirit Lake in the aftermath of the eruption of Mount St. Helens in Washington. Model sensitivity to numerical parameters is minimal; however, it is sensitive to the dam's material internal friction angle and the extent of grass cover when simulating man-made dams and to the cohesive strength of the material composing landslide-formed dams.

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INTRODUCTION

Earthen dams are subject to possible failure from either overtopping or piping water which erode a trench (breach) through the dam. The breach formation is gradual with respect to time and its width as measured along the crest of the dam usually encompasses only a portion of the dam's crest length. In many instances, the bottom of the breach progressively erodes downward until it reaches the bottom of the dam; however, in some cases, it may cease its downward progression at some intermediate elevation between the top and bottom of the dam. The size of the breach, as constituted by its depth and its width (which may be a function of the depth), and the rate of the breach formation determine the magnitude and shape of the resulting breach outflow hydrograph. This is of vital interest to hydrologists and engineers concerned with real-time forecasting or evacuation planning for floods produced by dam failures.

This paper presents a mathematical model (BREACH) for predicting the breach characteristics (size, shape, time of formation) and the breach outflow hydrograph. The model is physically based on the principles of hydraulics, sediment transport, soil mechanics, the geometric and material properties of the dam, and the reservoir properties (storage volume, spillway characteristics, and time dependent reservoir inflow rate). The dam may be either man-made or naturally formed as a consequence of a landslide. In either, the mechanics of breach formation are very similar, the principal difference being one of scale. The landslide-formed dam is often much larger than even the largest of man-made earthen dams as illustrated in Fig. 1. The critical material properties of the dam are the internal friction angle, cohesion strength, and average grain size diameter (D_{50}).

The breach erosion model presented herein is a modification of an earlier version first reported by the author (Fread, 1984). The BREACH Model predicts a dam-breach outflow hydrograph. It differs from the parametric approach which the author has used in the NWS DAMBRK Model (Fread, 1977, 1981, 1983). The parametric model uses empirical observations of previous dam failures such as the breach width-depth relation, time of breach formation, and depth of breach to develop the outflow hydrograph. The breach erosion model presented herein can provide some advantages over the parametric breach model for application to man-made dams since the critical properties used by the model are measurable or can be estimated within a reasonable range from a qualitative description of the dam materials. However, it should be emphasized that even if the properties can be measured there is a range for their probable value and within this range outflow hydrographs of varying magnitude and shape will be produced by the model. The hydrologist or engineer should investigate the most critical combination of values for the dam's material properties. It is considered essential when predicting breach outflows of landslide dams to utilize a physically based model since observations of such are essentially non-existent, rendering the parametric approach infeasible.

In this paper, the breach erosion model is applied to the piping initiated failure of the man-made Teton Dam in Idaho, the overtopping

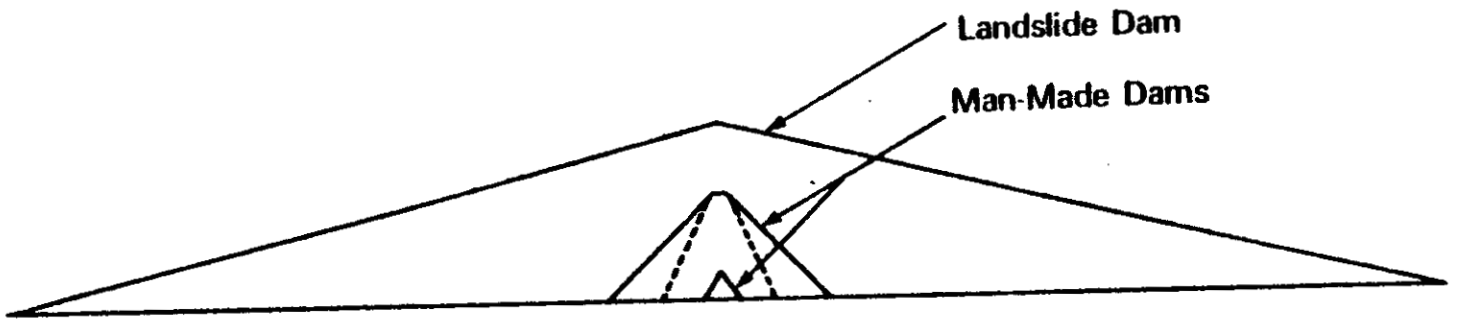

Figure 1. Comparative View of Natural Landslide Dams and Man-Made Dams.

failure of the Mantaro landslide-formed dam in Peru, and the possible failure of the recently formed landslide blockage of Spirit Lake, near Mount St. Helens in Washington.

PREVIOUS RESEARCH

Other investigators of dam breach outflows have developed physically based models.

The first was Cristofano (1965) who derived an equation which related the force of the flowing water through the breach to the shear strength of the soil particles on the bottom of the breach and in this manner developed the rate of erosion of the breach channel as a function of the rate of change of water flowing through the breach. He assumed the breach bottom width to be constant with time and always of trapezoidal shape in which the side slopes of the trapezoid were determine by the angle of repose of the breach material, and the bottom slope of the breach channel was equal to the internal friction angle of the breach material. An arbitrary empirical coefficient which was critical to the model's prediction was also utilized.

Harris and Wagner (1967) used the Schoklitsch sediment transport equation and considered the breach to commence its downward progession immediately upon overtopping, and the erosion of the breach was assumed to progress to the bottom of the dam. Brown and Rogers (1977) presented a breach model which was based on the work of Harris and Wagner.

Most recently Ponce and Tsivoglou (1981) presented a rather computationally complex breach erosion model which coupled the Meyer-Peter and Muller sediment transport equation to the one-dimensional differential equations of unsteady flow and sediment conservation. Reservoir storage depletion was included in the upstream boundary equation used in conjunction with the unsteady flow equations. The set of differential equations was solved with a four-point implicit finite difference scheme. Flow resistance was represented through use of the Manning n. Breach width was empirically related to the rate of breach flow. A small rivulet was assumed to be initially present along the flow path. "Outflow at start of the computation is a function of the assumed initial size of the rivulet. Progressive erosion widens and deepens the rivulet, increasing outflow and erosion rate in a self-generating manner. The upper cross-section on the sloping downstream face creeps upstream across the dam top until it reaches the upstream face, whereby rate of flow and erosion increase at a faster rate. If outflow increases enough to lower the reservoir level faster than the channel bed erodes, both outflow and erosion gradually diminish. Of course, outflow will eventually decrease even if the breach bed erodes all the way down to the stream bed. This mode of failure creates the outflow hydrograph in the shape of a sharp but nevertheless gradual flood wave." Ponce and Tsivoglou compared the model's predictions with observations of a breached landslide-formed dam on the Mantaro River in Peru. The results were considered good. However, they were influenced by the judicious selection of the Manning n, the breach width-flow relation parameter, and a coefficient in the sediment transport equation, although Ponce and Tsivoglou

stated that the selected values were within each one's reasonable range of variation. Also, problems of a numerical computational nature were alluded to in connection with solving the implicit finite difference unsteady flow equations. They also implied that further work was needed to improve the breach width-flow relation and in developing a relation between the Manning n and the hydraulic/sediment characteristics of the breach channel.

The breach erosion model presented in this paper differs substantially from those previously reported. A summation of the important differences will be given after the model has been completely described in the next section.

MODEL DESCRIPTION

General

The breach erosion model (BREACH) simulates the failure of an earthen dam as shown in Fig. 2. The dam may be homogeneous or it may consist of two materials, an outer zone with distinct material properties (ϕ - friction angle, C - cohesion, D_{50} - average grain size (mm), and γ - unit weight) and an inner core with its ϕ, C, D_{50}, and γ values. Also, the downstream face of the dam may be specified as having: 1) a grass cover with specified length of either good or fair stand, 2) material identical to the outer portion of the dam, or 3) material of larger grain size than the outer portion. The geometry of the downstream face of the dam is described by specifying the top of the dam (H_u), the bottom elevation of the dam (H_ℓ) or original streambed elevation, and its slope as given by the ratio 1 (vertical) : ZD (horizontal). Then, the geometry of the upstream face of the dam is described by specifying its slope as the ratio 1 (vertical) : ZU (horizontal). If the dam is man-made it is further described by specifying a flat crest width (W_{cr}) and a spillway rating table of spillway flow vs. water elevation, in which the first elevation represents the spillway crest. Naturally formed landslide dams are assumed to <u>not</u> have a flat crest or, of course, a spillway.

The storage characteristics of the reservoir are described by specifying a table of surface area (S_a) in units of acre-ft vs. water elevation, the initial water surface elevation (H_i) at the beginning of the simulation, and a table of reservoir inflows (Q_i) in cfs vs. the hour of their occurrence (T_i).

If an overtopping failure is simulated, the water level (H) in the reservoir must exceed the top of the dam before any erosion occurs. The first stages of the erosion are only along the downstream face of the dam as denoted by the line A-A in Fig. 2 where, initially if no grass cover exists, a small rectangular-shaped rivelet is assumed to exist along the face. An erosion channel of depth-dependent width is gradually cut into the downstream face of the dam. The flow into the channel is determined by the broad-crested weir relationship:

$$Q_b = 3\ B_o(H-H_c)^{1.5} \qquad (1)$$

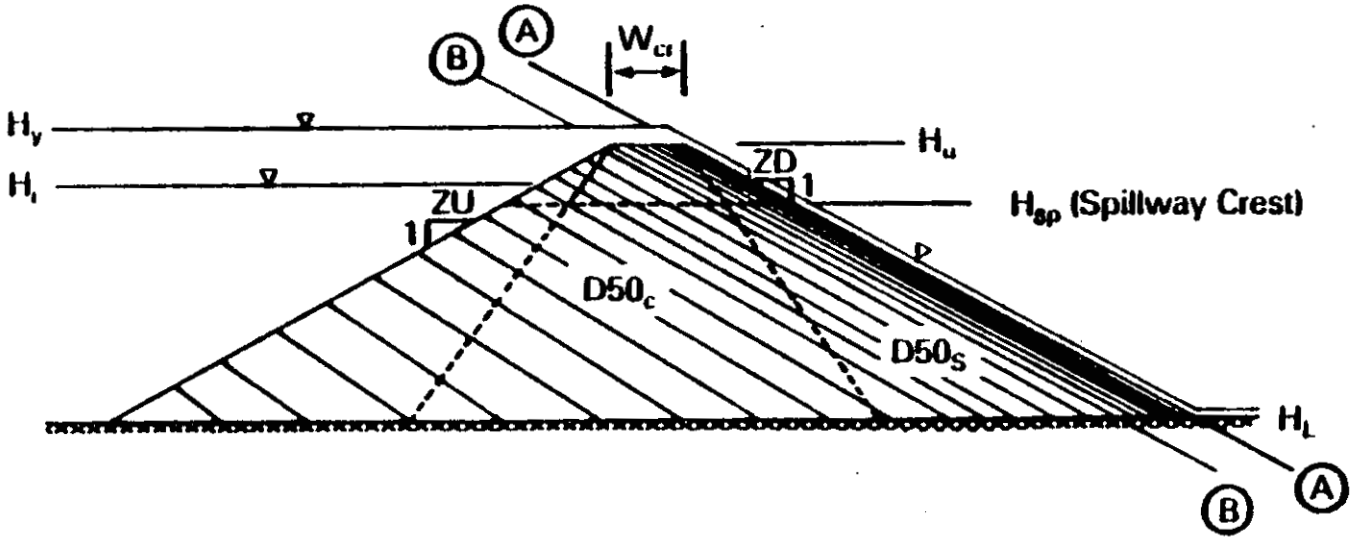

Figure 2. Side View of Dam Showing Conceptualized Overtopping Failure Sequence.

in which Q_b is the flow into the breach channel, B_o is the instantaneous width of the initially rectangular-shaped channel, and H_c is the elevation of the breach bottom. As the breach erodes into the downstream face of the dam, the breach bottom elevation (H_c) remains at the top of the dam (H_u), and the most upstream point of the breach channel moves across the crest of the dam towards the dam's upstream face. When the bottom of the erosion channel has attained the position of line B-B in Fig. 2, the breach bottom (H_c) starts to erode vertically downward. The breach bottom is allowed to progress downward until it reaches the bottom elevation of the dam (H_c) or in unusual circumstances to an elevation (H_m) that may be specified as lower than the bottom of the dam.

If the downstream face of the dam (line A-A in Fig. 2) has a grass cover, the velocity of the overtopping flow along the grassed downstream face is computed at each time step by the Manning equation. This velocity is compared with a specified maximum permissible velocity for grass-lined channels (see Chow, 1959). Failure of the downstream face via erosion is initiated at the time when the permissible velocity is exceeded. At that time a single rivulet having dimensions of one (ft) depth x two width is instantly created along the downstream face. Erosion within the rivulet is allowed to proceed as in the case where a grass cover does not exist. The velocity (v) along the downstream face is computed as follows:

$$q = 3(H-Hc)^{1.5} \tag{2}$$

$$y = \left[\frac{qn'}{1.49(1/ZD)^{0.5}}\right]^{0.6} \tag{3}$$

$$n' = aq^b \tag{4}$$

$$v = q/y \tag{5}$$

in which q is the overtopping flow per foot of crest length, (H-Hc) is the hydrostatic head (ft) over the crest, n' is the Manning coefficient for grass-lined channels (Chow, 1959), a and b are fitting coefficients required to represent in mathematical form the graphical curves given in Chow.

If a piping breach is simulated, the water level (H) in the reservoir must be greater than the assumed center-line elevation (H_p) of the initially rectangular-shaped piping channel before the size of the pipe starts to increase via erosion. The bottom of the pipe is eroded vertically downward while its top erodes at the same rate vertically upwards. The flow into the pipe is controlled by orifice flow, i.e.,

$$Q_b = A\left[2g(H-Hp)/(1 + fL/D)\right]^{0.5} \tag{6}$$

in which Q_b is the flow (cfs) through the pipe, g is the gravity acceleration constant, A is the cross-sectional area (ft^2) of the pipe channel, (H-Hp) is the hydrostatic head (ft) on the pipe, L is the length (ft) of the pipe channel, D is the diameter or width (ft) of the pipe, and f is the Darcy friction factor computed from the following mathematical representation of the Moody curves (Morris and Wiggert, 1972):

$$f = 64/N_R \quad \ldots\ldots\ldots\ldots N_R < 2000 \tag{7}$$

$$f = 0.105 \left(\frac{D_{50}}{D}\right)^{0.167} \quad \ldots\ldots N_R > 2000 \tag{8}$$

$$N_R = 83333\ Q_b\ D/A \tag{9}$$

in which f is the Darcy friction factor and N_R is the Reynolds number. As the top elevation (H_{pu}) of the pipe erodes vertically upward, a point is reached when the flow changes from orifice-control to weir-control. The transition is assumed to occur when the following inequality is satisfied:

$$H < H_{pu} + 2(H_{pu} - H_p) \tag{10}$$

The weir flow is then governed by Eq. (1) in which H_c is equivalent to the bottom elevation of the pipe and B_o is the width of the pipe at the instant of transition. Upon reaching the instant of flow transition from orifice to weir, the remaining material above the top of the pipe and below the top of the dam is assumed to collapse and is transported along the breach channel at the current rate of sediment transport before further erosion occurs. The erosion then proceeds to cut a channel parallel to and along the remaining portion of the downstream face of the dam between the elevation of the bottom of the pipe and the bottom of the dam. The remaining erosion process is quite similar to that described for the overtopping type of failure with the breach channel now in a position similar to line A-A in Fig. 2.

The preceding general description of the erosion process was for a man-made dam. If a landslide dam is simulated the process is identical except, due to the assumption that the landslide dam has no crest width (W_{cr}), the erosion initially commences with the breach channel in the position of line B-B in Fig. 2. A failure mode of overtopping or piping may be initiated for a landslide-formed dam.

Breach Width

The method of determining the width of the breach channel is a critical component of any breach model. In this model the width of the breach is dynamically controlled by two mechanisms. The first, assumes the breach has an initial rectangular shape as shown in Fig. 3. The width of the breach (B_o) is governed by the following relation

$$B_o = B_r\ y \tag{11}$$

in which B_r is a factor based on optimum channel hydraulic efficiency and y

is the depth of flow in the breach channel. The parameter B_r has a value of 2 for overtopping failures while for piping failures, B_r is set to 1.0. The model assumes that y is the critical depth at the entrance to the breach channel, i.e.,

$$y = 2/3(H-H_c). \tag{12}$$

The second mechanism controlling the breach width is derived from the stability of soil slopes (Spangler, 1951). The initial rectangular-shaped channel changes to a trapezoidal channel when the sides of the breach channel collapse, forming an angle (α) with the vertical. The collapse occurs when the depth of the breach cut (H_c') reaches the critical depth (H') which is a function of the dam's material properties of internal friction (ϕ), cohesion (C), and unit weight (γ), i.e.,

$$H_k' = \frac{4\ C \cos \phi\ \sin \theta_{k-1}'}{\gamma\ [1 - \cos\ (\theta_{k-1}' - \phi)]} \quad . \ . \ . \ k = 1,2,3 \tag{13}$$

in which the subscript k denotes one of three successive collapse conditions as shown in Fig. 3, and θ is the angle that the side of the breach channel makes with the horizontal as shown in Fig. 4. Thus, the angle (θ) or (α) at any time during the breach formation is given as follows:

$$\theta = \theta_{k-1}' \quad \ldots\ldots \quad H_k < H_k' \tag{14}$$

$$\theta = \theta_k' \quad \ldots\ldots \quad H_k > H_k' \tag{15}$$

$$B_o = B_r\ y \quad \ldots\ldots \quad k = 1 \tag{16}$$

$$B_o = B_{om} \quad \ldots\ldots \quad k > 1 \tag{17}$$

$$B_{om} = B_r\ y \quad \ldots\ldots \quad \text{when } H_1 = H_1' \tag{18}$$

$$\alpha = 0.5\pi - \theta \tag{19}$$

where:

$$\theta_o' = 0.5\pi \tag{20}$$

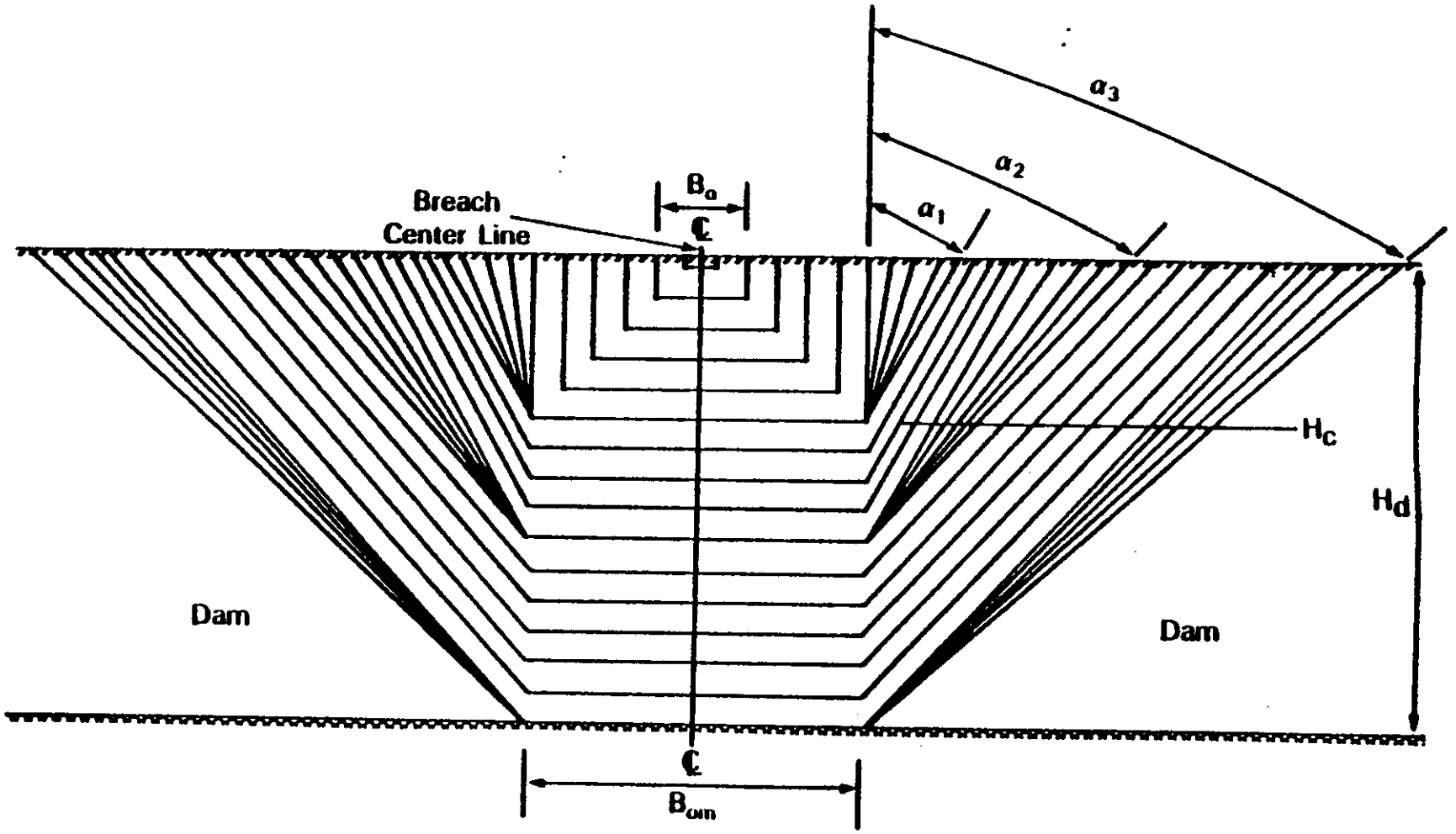

Figure 3. Front View of Dam with Breach Formation Sequence.

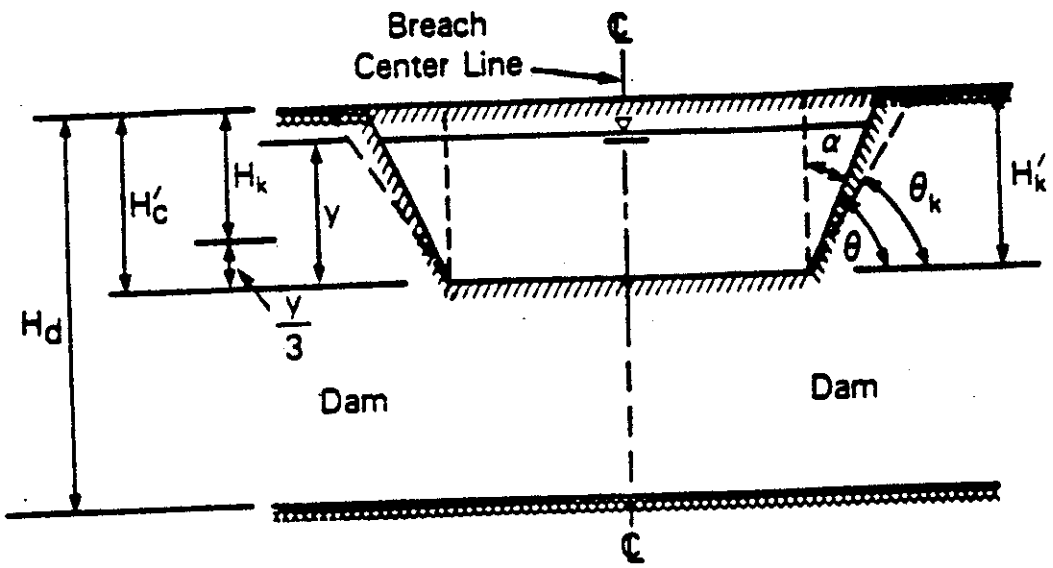

Figure 4. Front View of Dam with Breach.

$$\theta'_k = (\theta'_{k-1} + \phi)/2 \quad . \; . \; . \; . \; . \quad k = 1,2,3 \tag{21}$$

$$H_k = H'_c - y/3 \tag{22}$$

The subscript (k) is incremented by 1 at the instant when $H_k > H'_k$. In Eq. (22), the term (y/3) is subtracted from H'_c to give the actual free-standing depth of breach cut in which the supporting influence of the water on the stability of the sides of the breach is taken into account. Through this mechanism, it is possible for the breach to widen after the peak outflow through the breach has occurred since the flow depth (y) diminishes during the receding flow.

Erosion is assumed to occur equally along the bottom and sides of the breach channel except when the sides of the breach channel collapse. Thereupon the breach bottom is assumed not to continue to erode downward until the volume of collapsed material along the breach is removed at the rate of the sediment transport capacity of the breach channel at the instant of collapse. After this characteristically short pause, the breach bottom and sides continue to erode.

When landslide dams are simulated, the relatively long breach channel lengths compared to those of man-made dams suggest that the width for the channel be computed apart from the entrance width of the breach. In this case, y in Eq. (11), (16), (18), and (22) is computed as the normal uniform depth (y_n) in the breach channel rather than the critical depth given by Eq. (12). Equations for computing the normal channel depth are presented in a subsequent section.

Reservoir Level Determination

Conservation of mass is used to compute the change in the reservoir water surface elevation (H) due to the influence of reservoir inflow (Q_i), spillway outflow (Q_{sp}), crest overflow (Q_o), breach outflow (Q_b), and the reservoir storage characteristics. The conservation of mass over a time step (Δt) in hours is represented by the following:

$$\bar{Q}_i - (\bar{Q}_b + \bar{Q}_{sp} + \bar{Q}_o) = S_a \frac{\Delta H}{\Delta t} \frac{43560}{3600} \tag{23}$$

in which ΔH is the change in water surface elevation during the time interval (Δt), and S_a is the surface area in acres at elevation H. All flows are expressed in units of cfs and the bar (-) indicates the flow is averaged over the time step. Rearranging Eq. (23) yields the following expression for the change in the reservoir water surface:

$$\Delta H = \frac{0.0826 \Delta t}{S_a} (\bar{Q}_i - \bar{Q}_b - \bar{Q}_{sp} - \bar{Q}_o) \tag{24}$$

The reservoir elevation (H) at time (t) can easily be obtained from the relation,

$$H = H' + \Delta H \tag{25}$$

in which H' is the reservoir elevation at time t-Δt.

The reservoir inflow ($\bar{Q}_i$) is determined from the specified table of inflows (Q_i) vs. time (T_i). The spillway flow ($\bar{Q}_s$) is determined from the specified table of spillway flows (Q_s) vs. reservoir elevation (H). The breach flow (Q_b) is computed from Eq. (2) for piping flow. When the breach flow is weir-type, Eq. (1) is used when $H_c = H_u$; however, when $H_c < H_u$, the following broad-crested weir equation is used:

$$Q_b = 3\ B_o\ (H - H_c)^{1.5} + 2\ \tan(\alpha)\ (H - H_c)^{2.5} \tag{26}$$

in which B_o is given by Eq. (16) or Eq. (17) and α is given by Eq. (19). The crest overflow is computed as broad-crested weir flow from Eq. (1), where B_o is replaced by the crest length of the dam and H_c is replaced by H_u.

Breach Channel Hydraulics

The breach flow is assumed to be adequately described by quasi-steady uniform flow as determined by applying the Manning open channel flow equation at each Δt time step, i.e.,

$$Q_b = \frac{1.49\ S^{0.5}\ A^{1.67}}{n\ \ P^{0.67}} \tag{27}$$

in which S = 1/ZD, A is the channel cross-section area, P is the wetted perimeter of the channel, and n is the Manning coefficient. In this model, n is computed using the Strickler relation which is based on the average grain size of the material forming the breach channel, i.e.,

$$n = 0.013\ D_{50}^{\ 0.167} \tag{28}$$

in which D_{50} represents the average grain size diameter expressed in mm.

The use of quasi-steady uniform flow is considered appropriate because the extremely short reach of breach channel, very steep channel slopes (1/ZD) for man-made dams, and even in the case of landslide dams where the channel length is greater and the slope is smaller, contribute to produce extremely small variation in flow with distance along the breach channel. The use of quasi-steady uniform flow in contrast to the unsteady flow

equations as used by Ponce and Tsivoglou (1981) greatly simplifies the hydraulics and computational algorithm. Such simplification is considered commensurate with the other simplifications inherent in the treatment of the breach development in dams for which precise measurements of material properties are lacking or impossible to obtain and the wide variance which exists in such properties in many dams. The simplified hydraulics eliminates troublesome numerical computation problems and enables the breach model to require only minimal computational resources.

When the breach channel is rectangular, the following relations exist between depth of flow (y_n) and discharge (Q_b):

$$y_n = \left(\frac{Q_b\, n}{1.49\, B_o\, S^{0.5}}\right)^{0.6} \tag{29}$$

in which B_o is defined by Eqs. (16-18).

When the breach channel is trapezoidal, the following algorithm based on Newton-Raphson iteration is used to compute the depth of flow (y_n):

$$y_n^{k+1} = y_n^k - \frac{f(y_n^k)}{f'(y_n^k)} \tag{30}$$

$$f(y_n^k) = Q_b P^{0.67} - 1.49\, S^{0.5}\, A^{1.67} \tag{31}$$

in which

$$A = 0.5(B_o + B)\, y_n^k \tag{32}$$

$$B = B_{om} + y_n \tan(\alpha) \tag{33}$$

$$P = B_{om} + y_n/\cos(\alpha) \tag{34}$$

$$f'(y_n^k) = 0.67\, Q_b \frac{P'}{P^{1/3}} - 1.67\, \frac{1.49}{n} S^{0.5} B\, A^{0.67} \tag{35}$$

in which

$$P' = 1/\cos(\alpha). \tag{36}$$

The superscript (k) is an iteration counter; the iteration continues until

$$|y_n^{k+1} - y_n^k| < \epsilon \qquad \epsilon < 0.01 \tag{37}$$

The first estimate for y_n is obtained from the following:

$$y_n^1 = \left(\frac{Q_b n}{1.49\ \bar{B}\ S^{0.5}}\right)^{0.6} \tag{38}$$

where:

$$\bar{B} = 0.5(B_{om} + B') \tag{39}$$

in which B' is the breach channel top width at the water depth (y_n) at ($t-\Delta t$).

Sediment Transport

The rate at which the breach is eroded depends on the capacity of the flowing water to transport the eroded material. The Meyer-Peter and Muller sediment transport relation as modified by Smart (1984) for steep channels is used, i.e.,

$$Q_s = 3.64\ (D_{90}/D_{30})^{0.2}\ \frac{D^{2/3}}{n}\ S^{1.1}\ (DS - 0.0054\ D_{50}\ \tau_c) \tag{40}$$

where:

$$\tau_c = a'\ \tau_c' \tag{41}$$

$$a' = \cos\theta\ (1. - 1.54 \tan\theta) \tag{42}$$

$$\theta = \tan^{-1} S \tag{43}$$

$$\tau_c' = 0.122/R^{*0.970} \quad \ldots\ldots\ldots\ldots\ldots R^* < 3 \tag{44}$$

$$\tau_c' = 0.056/R^{*0.266} \quad \ldots\ldots\ldots\ldots\ldots 3 < R^* < 10 \tag{45}$$

$$\tau_c' = 0.0205\ R^{*\ 0.173} \quad \ldots\ldots\ldots\ldots\ldots R^* > 10 \tag{46}$$

$$S = \frac{1}{ZD} \tag{47}$$

$$R^* = 1524\ D_{50}\ (DS)^{0.5} \tag{48}$$

in which Q_s is the sediment transport rate (cfs); D_{30}, D_{50}, D_{90} (mm) are grain sizes at which 30, 50, and 90 percent of the total weight is finer; D is the hydraulic depth of flow (ft), S is the slope of the downstream face of the dam; and τ_c' is the Shields' critical shear stress.

Breach Enlargement By Sudden Collapse

It is possible for the breach to be enlarged by a rather sudden collapse failure of the upper portions of dam in the vicinity of the breach development. Such a collapse would consist of a wedge-shaped portion of the

dam having a vertical dimension (Y_c) as shown in Fig. 5. The collapse would be due to the pressure of the water on the upstream face of the dam exceeding the resistive forces due to shear and cohesion which keep the wedge in place. When this occurs the wedge is pushed to the right in Fig. 6 and is then transported by the escaping water through the now enlarged breach. When collapse occurs, the erosion of the breach ceases until the volume of the collapsed wedge is transported through the breach channel at the transport rate of the water escaping through the suddenly enlarged breach. A check for collapse is made at each Δt time step during the simulation. The collapse check consists of assuming an initial value for Y_c of 10 and then summing the forces acting on the wedge of height, Y_c. The forces are those due to the water pressure (F_w) and the resisting forces which are the shear force (F_{sb}) acting along the bottom of the wedge, the shear force (F_{ss}) acting along both sides of the wedge, the force (F_{cb}) due to cohesion along the wedge bottom and (F_{cs}), the force due to cohesion acting along the sides of the wedge. Thus, collapse occurs if

$$F_w > F_{sb} + F_{ss} + F_{cb} + F_{cs} \tag{49}$$

where:

$$F_w = 0.5\ 62.4\ \bar{B}\ (Y_c + 2\ h_d) \tag{50}$$

$$F_{sb} = \tan\phi\,[(\gamma - 62.4)0.5\ ZU\ \bar{B}\ Y_c^2 + \gamma\ B\ W_{cc}\ Y_c +$$

$$\gamma\ 0.5\ ZD\ \bar{B}\ Y_c^{\ 2} + 0.67\ 62.4\ h_d\ W_{cc} \cdot B + 62.4\ ZD'\ B\ y_n\ Y_c] \tag{51}$$

$$F_{ss} = \gamma K \tan\phi\ Y_c^{\ 2}[W_{cc} + (ZU + ZD)Y_c] \tag{52}$$

$$F_{cb} = CB_o[W_{cc} + (ZU + ZD)\ Y_c] \tag{53}$$

$$F_{cs} = 2C[W_{cc} + (ZU + ZD)Y_c(B_o + 2Y_c/\cos\alpha)] \tag{54}$$

in which

$$K = (1 - \sin\phi)/(1 + \sin\phi) \tag{55}$$

$$\bar{B} = B_o + H_c \sin\alpha \tag{56}$$

$$ZD' = (1 + ZD^2)^{0.5} \tag{57}$$

and Y_c, h_d, ZU, ZD, Wcc, y_n are defined in Fig. 5. The top width (B) of the water surface in the breach channel is defined by Eq. (11) or Eq. (33), and α is defined in Fig. 4 and Eq. (19).

If the inequality of Eq. (49) is not satisfied with the first trial Y_c, then no collapse occurs at this time. If it is satisfied, Y_c is increased by 2 ft and Eq. (49) is again evaluated. This cycle continues until the inequality is not satisfied. Then the final value for Y_c is assumed to be Y_c-1.

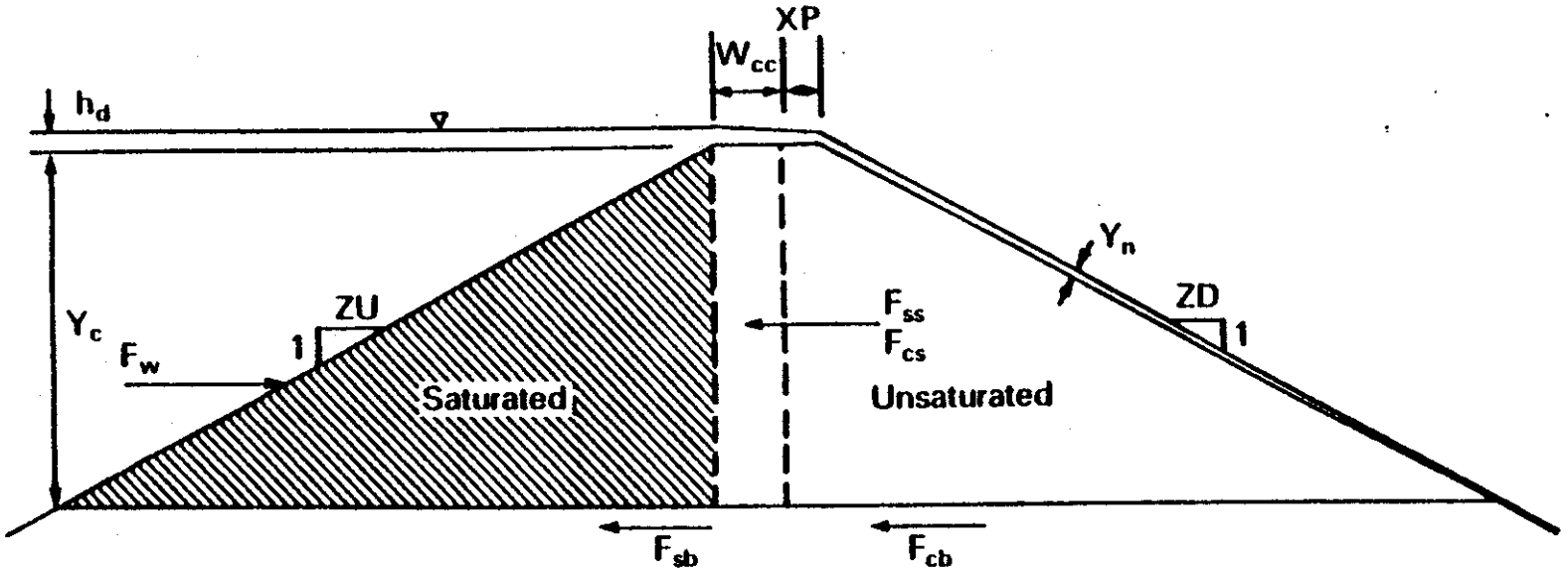

Figure 5. Side View of Dam Showing the Forces which Determine the Possible Collapse of the Upper Portion (Y_c) of the Dam.

Computational Algorithm

The sequence of computations in the model are iterative since the flow into the breach is dependent on the bottom elevation of the breach and its width while the breach properties are dependent on the sediment transport capacity of the breach flow, and the transport capacity is dependent on the breach size and flow. A simple iterative algorithm is used to account for the mutual dependence of the flow, erosion, and breach properties. An estimated incremental erosion depth ($\Delta H_c'$) is used at each time step to start the iterative computation. This estimated value can be extrapolated from previously computed incremental erosion depths after the first few time steps. The computational algorithm follows:

1. increment the time: $t = t' + \Delta t$;

2. compute H_c using estimated $\Delta H_c'$: $H_c = H_c' - \Delta H_c'$;

3. compute reservoir elevation: $H = H' + \Delta H'$, where $\Delta H'$ is an estimated incremental change in the reservoir elevation as obtained by extrapolation from previous changes and H' is the reservoir elevation at time (t');

4. compute $\bar{Q}_{sp}$, $\bar{Q}_i$, $\bar{Q}_o$ associated with elevation H;

5. compute ΔH from Eq. (24) using the previously computed breach flow (Q_b);

6. compute reservoir elevation: $H = H' + \Delta H$;

7. compute breach flow (Q_b) using Eq. (1), Eq. (2), or Eq. (26);

8. correct breach flow for downstream submergence:

   $Q_b = S_b Q_b$, where $S_b = 1.0 - \left(\frac{Y_t - H_c}{H - H_c} - 0.67\right)^3$ in which y_t is the tailwater depth due to the total outflow ($Q_b + Q_{sp} + Q_o$), and is computed from the Manning equation applied to the tailwater cross-section;

9. compute B_o, α, B, P, and R for the breach channel using Eqs. (16-19) 33-34);

10. compute sediment transport rate (Q_s) from Eq. (40);

11. compute ΔH_c as follows: $\Delta H_c = 3600\ \Delta t\ Q_s/[P_o\ L\ (1 - P_{or})]$

    in which L is the length of the breach channel which may be easily computed from the geometric relations shown in Fig. 2, P_{or} is the porosity of the breach material, and P_o is the total perimeter of the breach, $P_o = B_o + 2(H_u - H_c)/\cos\alpha$;

12. compute ΔH_c with the estimated value $\Delta H_c'$:

    if $100(\Delta H_c' - \Delta H_c)/\Delta H_c < E$, where E is an error tolerance in percent (an input to the model having a value between 0.1 and 1.0), then the solution for ΔH_c and the associated outflows Q_b, Q_s and Q_o are considered acceptable; if the above inequality is not satisfied step (2) is returned to with the recently computed ΔH_c replacing ΔH_c; this cycle is repeated until convergence is attained, usually within 1 or 2 iterations.

13. check for collapse;

14. extrapolate estimates for $\Delta H_c'$ and $\Delta H'$;

15. if t is less than the specified duration of the computation (t_e) return to step 1; and

16. plot the outflow hydrograph consisting of the total flow ($Q_b+Q_s+Q_o$) computed at each time step.

Computational Requirements

The basic time step (Δt) is specified; however when rapid erosion takes place the basic time step is automatically reduced to $\Delta t/20$. The specified value for the basic time step is usually about 0.02 hrs with slightly larger values acceptable for landslide dams. For typical applications, the BREACH model requires less than 10 seconds of CPU time on a Prime 750 computer and less than 2 seconds on an IBM 360/195 computer, both of which are main-frame computers. Although it has not been used on micro-computers, it would be quite amenable to such applications.

The model has displayed a lack of numerical instability or convergence problems. The computations show very little sensitivity to a reasonable variation in basic time step size. Numerical experimentation indicates that as the time step is increased by a factor of 4, the computed peak flow (Q_p), time of peak (T_p), and final breach dimensions vary by less than 10, 4, and 0.5 percent, respectively.

Comparison With Previous Models

The BREACH model differs from the models of Cristofano (1965) and Harris and Wagner (1967) in the following significant ways:

1) The sediment transport algorithm utilized, 2) the method used for changing the breach shape and width, 3) the delay in breach erosion downward until the downstream face has been sufficiently eroded, 4) the introduction of a possible collapse mechanism for breach enlargement, 5) the accomodation of a piping failure mode, and 6) the consideration of possible tailwater submergence effects on the breach flow. Similarities are their simplicity of the computational algorithm, the

use of the D_{50} grain size and internal friction angle (ϕ), and the assumption of quasi-steady uniform flow hydraulics.

The BREACH model differs from the model reported by Ponce and Tsivoglou (1981) in the following significant ways: 1) items 1,2,4,5, and 6 as stated above, 2) the much simpler computational algorithm used in BREACH, 3) the use of the internal friction angle, 4) the use of the D_{50} grain size for determining the Manning n and 5) consideration of spillway flows for man-made dams. Similarities between the two models include the gradual development of the breach channel along the downstream face of the dam prior to its erosion vertically through the dam's crest, the use of the Manning n for the breach channel hydraulics, and the way in which the reservoir hydraulics are included in the development of the breach.

MODEL APPLICATIONS

The BREACH model was applied to three earthen dams to determine the outflow hydrograph produced by a gradual breach of each. The first was an actual piping failure of the man-made Teton dam in Idaho, the second was an actual overtopping failure of the landslide-formed dam which blocked the Mantaro River in Peru, and the third was a hypothetical piping failure of the landslide dam which blocks the natural outlet of Spirit Lake near Mount St. Helens in Washington.

Teton Dam

The Teton Dam, a 300 ft high earthen dam with a 3000 ft long crest and 262 ft depth of stored water amounting to about 250,000 acre-ft, failed on June 5, 1976. According to a report by Ray, et. al (1976) the failure started as a piping failure about 10:00 AM and slowly increased the rate of outflow until about 12:00 noon when the portion of the dam above the piping hole collapsed and in the next few minutes (about 12 minutes according to Blanton (1977)) the breach became fully developed allowing an estimated 1.6 to 2.8 million cfs (best estimate of 2.3) peak flow (Brown and Rogers, 1977) to be discharged into the valley below. At the time of peak flow the breach was estimated from photographs to be trapezoidal shape having a top width at the original water surface elevation of about 500 ft and side slopes of about 1 vertical to 0.5 horizontal. After the peak outflow the outflow gradually decreased to a comparatively low flow in about five hours as the reservoir volume was depleted and the surface elevation receded. The downstream face of the dam had a slope of 1:2 and the upstream face 1:2.5. The crest width was 35 ft and the bulk of the breach material was a D_{50} size of 0.03 mm. The inflow to the reservoir during failure was insignificant and the reservoir surface area at time of failure was about 1950 acre-ft.

The BREACH model was applied to the piping generated failure of the Teton Dam. The centerline elevation for the piping breach was 160 ft above the bottom of the dam, and an initial width of 0.1 ft was used for the assumed square-shaped pipe. The material properties of the breach were assumed as follows: ϕ = 40 deg, C = 250 lb/ft^2, and γ = 100 lb/ft^3. The

Strickler equation was judged not to be applicable for the extremely fine breach material, and the n value was computed as 0.013 from a Darcy friction factor based on the D_{50} grain size and the Moody curves (Morris and Wiggert, 1972). The computed outflow hydrograph is shown in Fig. 6. The timing, shape, and magnitude of the hydrograph compares quite well with the estimated actual values. The computed peak outflow of 2.3 million cfs agrees with the best estimate made by the U.S. Geological Survey and the time of occurrence is also the same. The computed breach width of 460 ft agrees closely with the estimated value of 500 ft at the elevation of the initial reservoir water surface. A larger estimated actual breach width of 650 ft breach width was reported by Brown and Rogers (1977); however this was the final breach width after additional enlargement of the breach occurred. The (BREACH) model produced a final width of 560 ft when the reservoir water elevation has receded to near the reservoir bottom; the additional widening of the breach during the recession of the outflow is due to the influence of the depth (y) in Eq. (15)

Sensitivities of the peak breach outflow (Q_p), time of peak flow (T_p) and the top width (W) of the trapezoidal-shaped breach to variations in the specified breach material properties, cohesive strength (C) and internal friction angle (ϕ), are shown in Fig. 7. The dashed lines apply to the Teton simulation. Peak outflow is moderately affected by the cohesion; however it is sensitive to the ϕ value which mostly controls the enlargement of the breach width. Q_p is sensitive to a full range of ϕ values, however the ϕ value may vary by ± 10 degrees with less than 20% variation in Q_p. The breach width (W) was moderately sensitive to variations in the cohesion (C), and somewhat more sensitive to the ϕ value. The time to peak outflow (Tp) was almost insensitive to variations in C and ϕ.

Mantaro Landslide Dam

A massive landslide occurred in the valley of the Mantaro River in the mountaineous area of central Peru on April 25, 1974. The slide, with a volume of approximately $5.6 \times 10^{10} ft^3$, dammed the Mantaro River and formed a lake which reached a depth of about 560 ft before overtopping during the period June 6-8, 1974 (Lee and Duncan, 1975). The overtopping flow very gradually eroded a small channel along the approximately 1 mile long downstream face of the slide during the first two days of overtopping. Then a dramatic increase in the breach channel occurred during the next 6-10 hrs resulting in a final trapezoidal-shaped breach channel approximately 350 ft in depth, a top width of some 800 ft, and side slopes of about 1:1. The peak flow was estimated at 353,000 cfs as reported by Lee and Duncan (1975), although Ponce and Tsivoglou (1981) later reported an estimated value of 484,000 cfs. The breach did not erode down to the original river bed; this caused a rather large lake to remain after the breaching had subsided some 24 hrs after the peak had occurred. The slide material was mostly a mixture of silty sand with some clay resulting in a D_{50} size of about 11 mm with some material ranging in size up to 3 ft boulders.

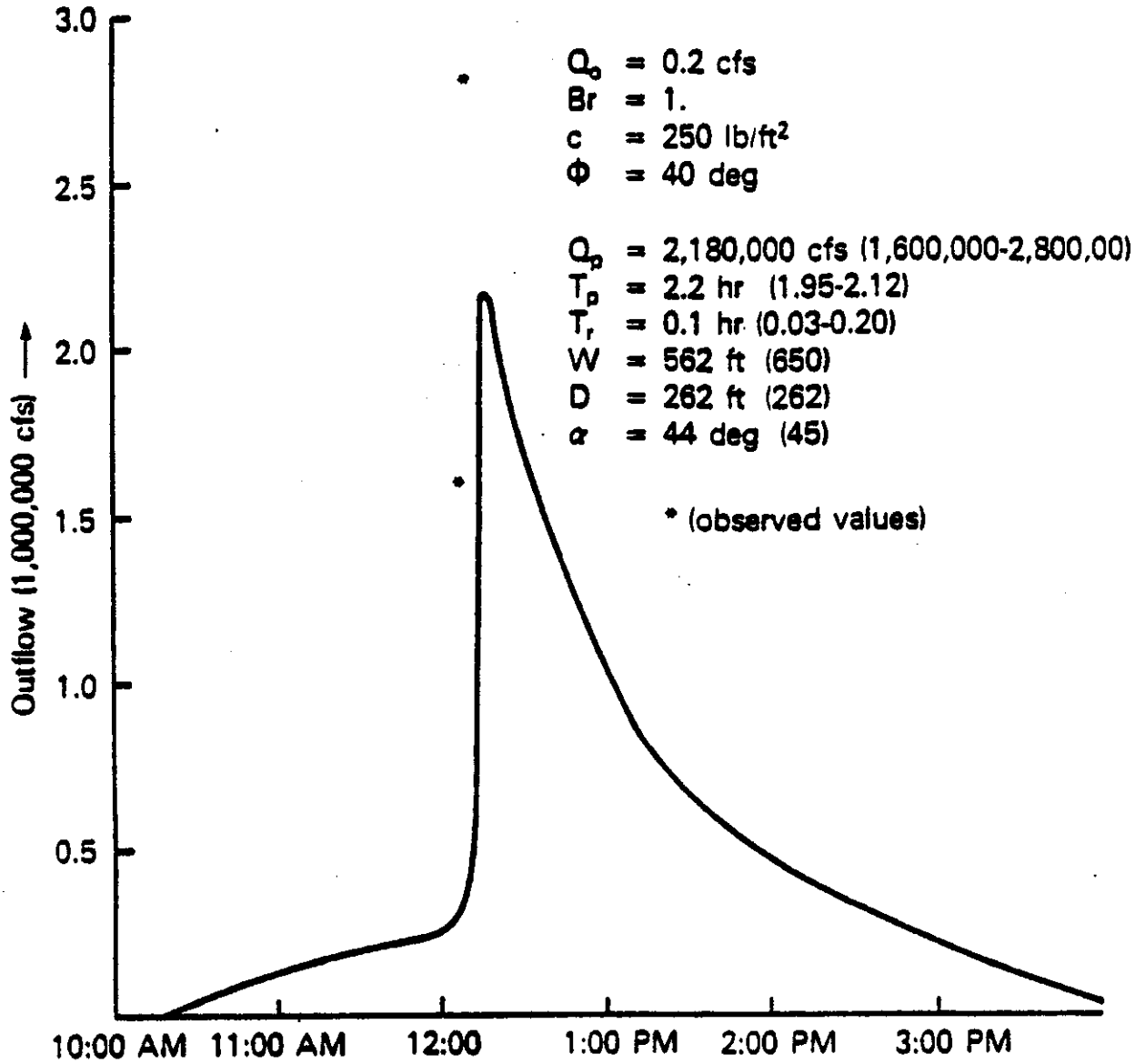

Figure 6. Teton Dam: Predicted and Observed Breach Outflow Hydrograph and Breach Properties.

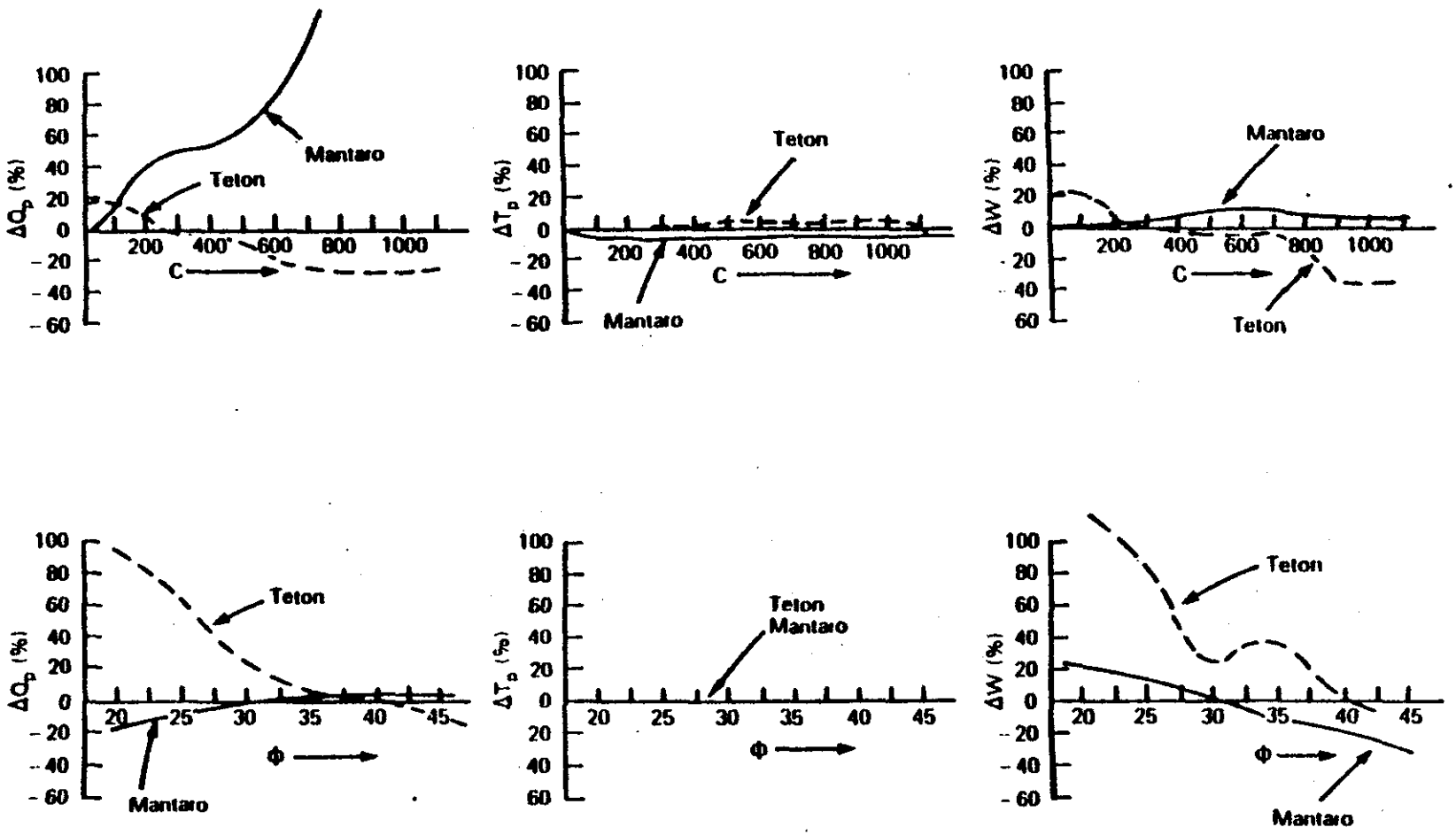

Figure 7. Sensitivity of Mantaro and Teton Predictions of Peak Outflow (Q_p), Time to Peak (T_p), and Breach Width (W) to Changes in the Material Properties of the Dam: Cohesion (C) and Internal Friction Angle (Φ).

The BREACH model was applied to the Mantaro landslide-formed dam using the following parameters: ZU = 17, ZD = 8.0, H_u = 560 ft, D_{50} = 11 mm, P_{or} = 0.5, S_a = 1200 acres, C = 30 lb/ft^2, ϕ = 30 deg, γ = 100 lb/ft^3 B_r = 2, and Δt = 0.1 hr. The Manning n was estimated by Eq. (28) as 0.020 and the initial breach depth was assumed to be 0.3 ft. The computed breach outflow is shown in Fig. 8 along with the estimated actual values. The timing of the peak outflow and its magnitude are very similar except for a somewhat more gradual rising limb of 10 hr compared to the estimated actual of 6 hr. The dimensions of the gorge eroded through the dam are similar as shown by the values of D, W, and α in Fig. 8.

The sensitivities of Q_p, T_p and W for variations in C and ϕ are shown in Fig. 7. The solid line denotes the Mantaro application. Most notably, Q_p is very sensitive to the cohesion (C) while much less sensitive to the internal friction angle (ϕ). T_p is almost insensitive to the value of C and quite insensitive to ϕ. W is not very sensitive to C and moderately sensitive to ϕ; a variation of ± 10 degrees in ϕ results in a change in W of less than 20%.

Spirit Lake Blockage

The violent eruption of Mount St. Helens on May 18, 1980, in Washington, produced a massive debris avalanche which moved down the north side of the volcano depositing about 105 billion ft^3 of materials in the upper 17 miles of the North Fork of the Toutle River valley and blocking the former outlet channel of Spirit Lake with deposits of up to 500 ft deep (Swift and Kresch, 1983). Spirit Lake, itself was drastically changed by the avalanche; the existing lake has a maximum volume of 314,000 acre-ft at the elevation of 3475 msl when breaching of the debris blockage is anticipated. To avoid this the Corps of Engineers have installed temporary pumps to maintain the lake level at about elevation 3462 (275,000 acre-ft) and are expecting to complete in the near future a permanent outlet channel which will bypass the debris dam and maintain safe lake levels.

Greater than normal precipitation, failure of the pumping system, and/or addition of more avalanche material from another eruption of the volcano could cause the lake level to exceed elevation 3475 and possibly cause the debris dam to fail. Such a hypothetical breach was simulated using the BREACH model.

An initial piping failure was assumed to occur at elevation 3448. The following parameters were determined from physical considerations: H_u = 3475, H_p = 3448, H_ℓ = 3320, ZD = 30, ZU = 22, D_{50} = 7, n = 0.018 from Eq. (28), P_{or} = 0.32, γ' = 100, ϕ = 35, C = 150, B_r = 1, an initial pipe of width 0.1 ft, and Δt = 0.20 hr. The simulated outflow hydrograph shown in Fig. 9 has a peak of about 550,000 cfs occurring 15 hrs after the start of failure. The time of rise (T_r) is about 2 hr. The final breach dimensions are: D = 155 ft, W = 420 ft, and α = 50 deg. Sensitivity tests indicate about a 20% variation in the peak flow may occur with expected variation in the internal friction angle and cohesion values. The predicted outflow

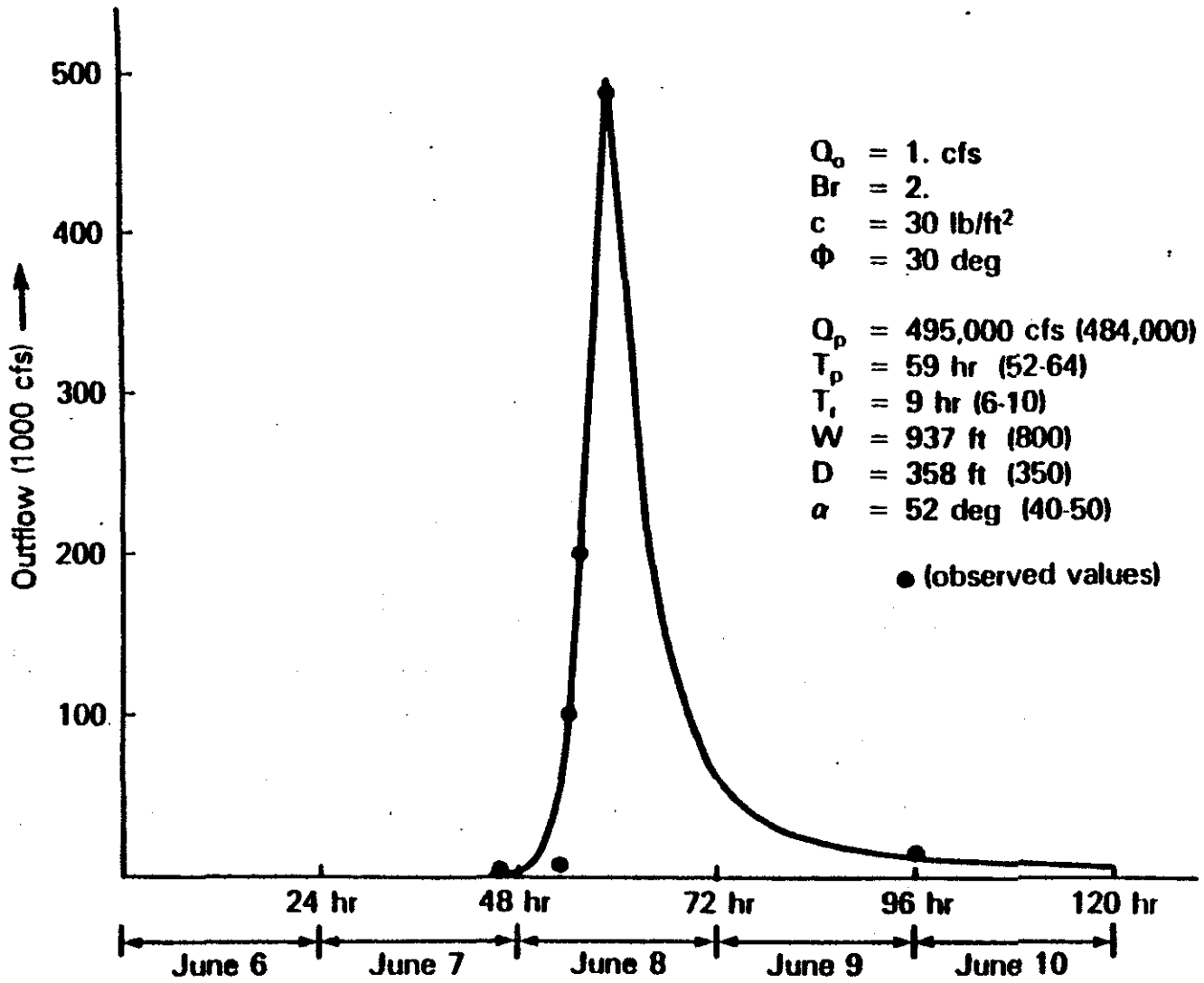

Figure 8. Mantaro Landslide Dam: Predicted and Observed Breach Outflow Hydrograph and Breach Properties.

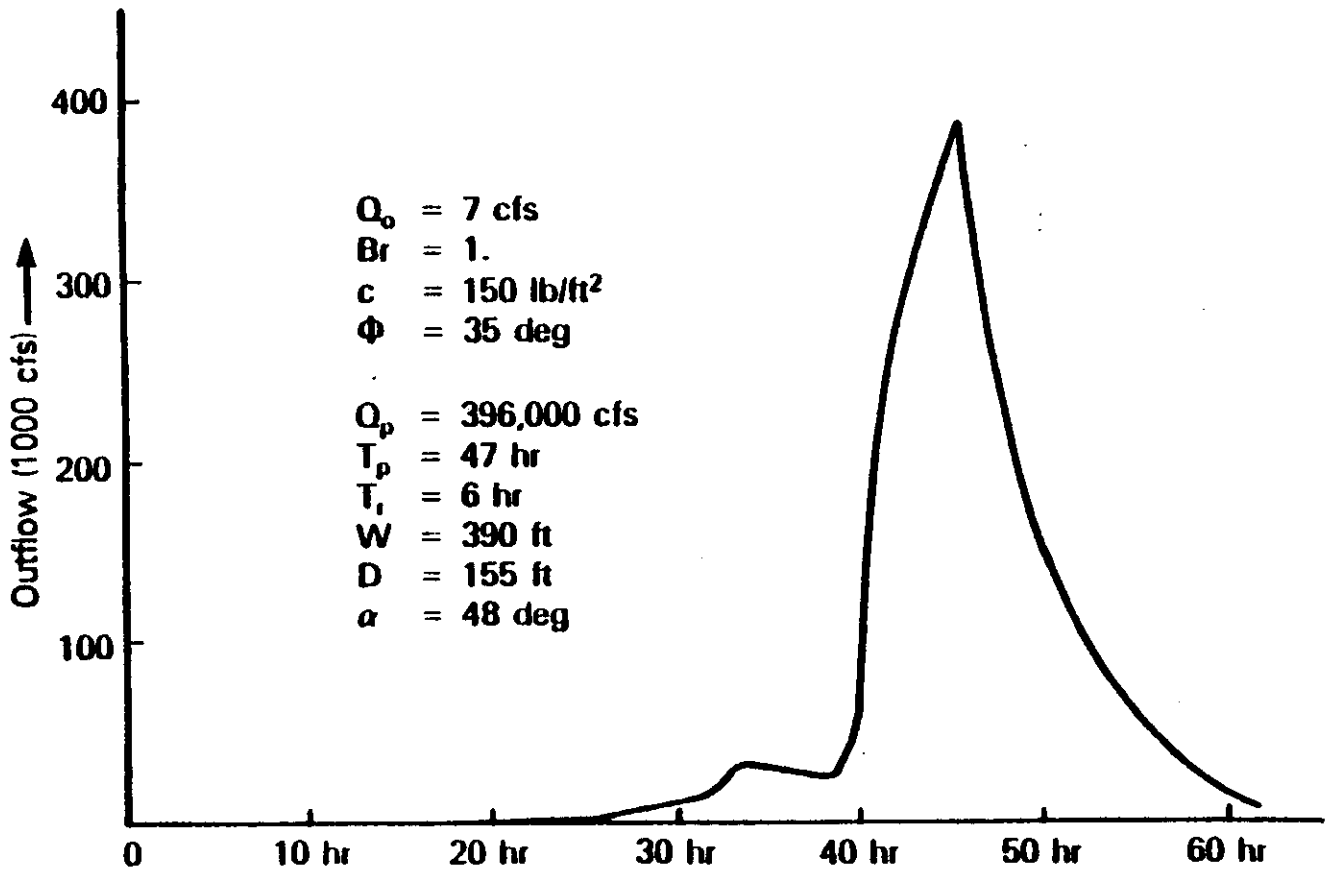

Figure 9. Spirit Lake Landslide Dam: Predicted Breach Outflow Hydrograph.

hydrograph from Spirit Lake was used in a hazard investigation of possible mud flows along the Toutle and Cowlitz Rivers by Swift and Kresch (1983).

SUMMARY

A breach erosion model (BREACH) based on principles of hydraulics, sediment transport, and soil mechanics is described. The model uses equations of weir or orifice flow to simulate the outflow entering a channel that is gradually eroded through an earthen man-made or landslide-formed dam. Conservation of reservoir inflow, storage volume, and outflow (crest overflow, spillway flow, and breach flow) determines the time-dependent reservoir water elevation which along with the predicted breach bottom elevation determines the head controlling the reservoir outflow. A sediment transport relation, the Meyer-Peter and Muller equation modified for steep channels is used to predict the transport capacity of the breach flow whose depth is determined by a quasi-steady uniform flow relation (the Manning equation applied at each Δt time step during the breach simulation). Breach enlargement is governed by the rate of erosion which is a function of the breach bottom slope and depth of flow and by the extent of collapse that occurs to the sides of the breach due to one or more sequential slope failures. The breach material properties (internal friction angle (ϕ) and cohesive strength (C)) are critical in determining the extent of enlargement of the trapezoidal-shaped breach. The Manning n used to compute the flow depth in the breach channel may be predicted on the basis of the grain size of the breach material by the Strickler equation or via the Moody relations. The dam may consist of three different materials, an inner core, an outer portion of the dam, and a thin layer along the downstream face of the dam. The latter is grass covered or of a grain size substantially larger than that of the outer portion of the dam. Piping or overtopping failure modes can be simulated as well as sudden collapses of sections of the breach due to excessive hydrostatic pressure. The model has the potential to determine if a breach will develop sufficiently during an overtopping of the dam to cause a catastrophic release of the reservoir's stored water. The BREACH model has a simple iterative computational structure which has well-behaved and efficient numerical properties. A few seconds of computer time is required for a typical application.

The model is tested on a man-made dam (Teton Dam) which failed by an initial piping which progressed to a weir type free surface breach. The predicted outflow hydrograph and breach size and shape compare favorably with estimated actual values. The predictions are somewhat sensitive to the value of the internal friction angle (ϕ) which was estimated from a grain size and qualitative description of the dam's material composition.

The model is also tested on the naturally formed landslide blockage of the Mantaro River in Peru which was overtopped and developed a large gorge which resulted in the gradual release of three-fourths of its stored water. The model predictions compared well with estimated observed values. The cohesive strength (C) is critical to the prediction of the rate of outflow of massive landslide dams; however if it is selected on the basis

of the breach material's properties, the results are within a reasonable range of variation.

It is considered that further testing of the model to assess its ability to predict overtopping failures of man-made dams is warranted and that its basic structure is suited to the resources (data and computational) which are commonly available to hydrologists/engineers during a detailed investigation of potential dam-failure flooding.

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Subject: Breach Erosion Model Input

Project No. 88514SSF

By SFR

Checked By

Task No. 0030

File No.

Date 9/25/89

Date

Sheet 2 of

Run #1

Input

- Init. Res. Elev = 1611.0
- Piping Failure Elev. = 1610.0

- Core D50 (mm) = 0.01 mm
- Core Porosity Ratio = 0.43
- Core Unit Wt. (PCF) = 95 pcf
- Core Friction ∡ (Ø) = 14°
- Core Cohesion (PSF) = 1000 psf
- Core D10/D50 Ratio = 14.1

- Shell D50 (mm) = 2.8 mm
- Shell Porosity Ratio = 0.25
- Shell Unit Wt. (PCF) = 129 pcf
- Shell Friction ∡ (Ø) = 30°
- Shell Cohesion (PSF) = 0 psf
- Shell D10/D50 Ratio = 43.5

- D/S Top 12" D50 (mm) = 2.8mm
- D/S Top 12" D10/D50 Ratio = 43.5

Resulting Output

- Breach Flow (QBP) = 314,048 cfs
- Max. Outflow (QP) = 314,048 cfs
- Final Depth of Breach (BRD) = 109.0 ft
- Final Top Width of Breach (BRW) = 315.8 ft
- Final Bottom Elev. of Breach (HC) = 1570.1
- Final Side Slope of Breach (Z) (Horiz.) = 1.15
- Time of Failure (TFH) = 1.66 hrs.
- Final Bottom Width of Breach (BO) = 65.0 ft

Run #1

CAVES BUTTES DAM PIPING FAILURE

1611.	1679.1	1570.1	1610.	1657.1			
1000.	16000.	82000.	186000.	88000.	18000.	2000.	1000.
0.	2.5	4.	6.1	8.5	11.	14.	18.
3120.	2860.	2260.	1820.	1260.	870.	440.	20.
1679.1	1674.1	1665.	1657.1	1645.	1635.	1620.	1570.1
1570.1	1575.	1580.	1600.	1620.	1640.	1660.	1680.
0.	600.	1550.	1800.	2000.	2100.	2200.	2300.
.03	.03	.03	.03	.03	.03	.03	.03
2.25	2.0	0.75	0.		0.		
0.01	0.43	95.		14.	1000.	14.1	
2.8	0.25	129.		30.	0.	43.5	
1.	20.	2260.	30.		43.5	2000.	
.03	0.		18.		10.		
0.	7000.	25000.	51000.	82000.	100072.	118000.	146000.
0.	2.9	6.9	10.9	14.9	17.	18.9	22.0

```
BREACH MODEL,VERSION: 6/87


AVES BUTTES DAM PIPING FAILURE

 HI=   1611.00  HU=   1679.10  HL=   1570.10  HPI=   1610.00  HSP=  1657.10

        (QIN(I),I=1,8)
 1000.00  16000.00  82000.00 186000.00  88000.00  18000.00   2000.00   1000.00

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     .00      2.50      4.00      6.10      8.50     11.00     14.00     18.00

        (RSA(I),I=1,8)
 3120.00   2860.00   2260.00   1820.00   1260.00    870.00    440.00     20.00

        (HSA(I),I=1,8)
 1679.10   1674.10   1665.00   1657.10   1645.00   1635.00   1620.00   1570.10

        (HSTW(I),I=1,8)
 1570.10   1575.00   1580.00   1600.00   1620.00   1640.00   1660.00   1680.00

        (BSTW(I),I=1,8)
     .00    600.00   1550.00   1800.00   2000.00   2100.00   2200.00   2300.00

        (CMTW(I),I=1,8)
     .03       .03       .03       .03       .03       .03       .03       .03

ZU=  2.25  ZD=  2.00  ZC=   .75  PORW=   .00  GL=   .00  GS=   .00  VMP=   .00

D50C=   .01  PORC=   .43  UWC= 95.00  CNC= .0000  AFRC= 14.00  COHC=1000.0  UNFCC= 14.10

D50S=  2.80  PORS=   .25  UWS=129.00  CNS= .0000  AFRS= 30.00  COHS=    .0  UNFCS= 43.50

BR=  1.00  WC=  20.0  CRL= 2260.0  SM= 30.00  D50DF=   .00  UNFCDF= 43.50   BMX= 2000.

DTH=  .030  DBG=  .000   H=   .0000   TEH=   18.0  ERR=   .00  FPT=  10.0  TPR=    .0

        (SPQ(I),I=1,8)
     .00   7000.00  25000.00  51000.00  82000.00 100072.00 118000.00 146000.00

        (SPH(I),I=1,8)
     .00      2.90      6.90     10.90     14.90     17.00     18.90     22.00
```

AFR= .0 TH1= 60.00 H1= 1.07 TH2= 41.00 H2= 68.99 TH3= 27.50 H3=245.91

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PIPE FLOW TO WEIR FLOW TRANSITION
   1586.       45.       48.   250709.   158893.   409602.      .055     7.682      415.      447.      205.     2073.
.03591  .03592  .42391 2.68745  .0118     16.6     80.8      9.8     16.1    477.2
                  2      77.0      69.0      59.2 1804088.0     .2417   33    7.6351    7.8768      49.0     447.4    2073.3
       KTT= 0     I= 2472     T=  18.00


 QBP=   314048.     TP=   8.45     QP=   314048.     TRS=   2.05     TB=   6.40
  BRD= 109.0     BRW= 315.8     HU=1679.1     HY=1573.5     HC=1570.1   ALG=49.000   QO=     .0057
 Z=  1.15   TFH=  1.66   BO=  65.0   TFI=  6.79
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TIME*****	46017.0	86017.0	126017.0	166017.0	206017.0	246017.0	286017.0	326017.0	366017.0	406017.0	DISCHARGE
6.323.	*	.	.	.	.	.	.	.	.	.	10981.
6.398.	*	.	.	.	.	.	.	.	.	.	15596.
6.473.	*	.	.	.	.	.	.	.	.	.	20642.
6.548.	*	.	.	.	.	.	.	.	.	.	26047.
6.623.	*	.	.	.	.	.	.	.	.	.	31757.
6.698.	*	.	.	.	.	.	.	.	.	.	37739.
6.773.	*	.	.	.	.	.	.	.	.	.	43962.
6.848.	*	.	.	.	.	.	.	.	.	.	50373.
6.923.	*	.	.	.	.	.	.	.	.	.	56969.
6.998.	*	.	.	.	.	.	.	.	.	.	63717.
7.073.	*	.	.	.	.	.	.	.	.	.	70582.
7.148.	*	.	.	.	.	.	.	.	.	.	77574.
7.223.	*	.	.	.	.	.	.	.	.	.	84641.
7.298.	*	.	.	.	.	.	.	.	.	.	92218.
7.373.	*	.	.	.	.	.	.	.	.	.	99717.
7.448.	*	.	.	.	.	.	.	.	.	.	107158.
7.523.	*	.	.	.	.	.	.	.	.	.	114504.
7.598.	*	.	.	.	.	.	.	.	.	.	121754.
7.673.	*	.	.	.	.	.	.	.	.	.	228855.
7.748.	*	.	.	.	.	.	.	.	.	.	225480.
7.823.	*	.	.	.	.	.	.	.	.	.	222875.
7.898.	*	.	.	.	.	.	.	.	.	.	247638.
7.973.	*	.	.	.	.	.	.	.	.	.	284048.
8.048.	*	.	.	.	.	.	.	.	.	.	293195.
8.123.	*	.	.	.	.	.	.	.	.	.	309622.
8.198.	*	.	.	.	.	.	.	.	.	.	311372.
8.273.	*	.	.	.	.	.	.	.	.	.	312669.
8.348.	*	.	.	.	.	.	.	.	.	.	313579.
8.423.	*	.	.	.	.	.	.	.	.	.	314011.
8.498.	*	.	.	.	.	.	.	.	.	.	313951.
8.573.	*	.	.	.	.	.	.	.	.	.	313401.
8.648.	*	.	.	.	.	.	.	.	.	.	312366.
8.723.	*	.	.	.	.	.	.	.	.	.	310835.
8.798.	*	.	.	.	.	.	.	.	.	.	308760.
8.873.	*	.	.	.	.	.	.	.	.	.	306105.
8.948.	*	.	.	.	.	.	.	.	.	.	302860.
9.023.	*	.	.	.	.	.	.	.	.	.	299054.
9.098.	*	.	.	.	.	.	.	.	.	.	294679.
9.173.	*	.	.	.	.	.	.	.	.	.	289711.
9.248.	*	.	.	.	.	.	.	.	.	.	284145.
9.323.	*	.	.	.	.	.	.	.	.	.	277956.
9.398.	*	.	.	.	.	.	.	.	.	.	271124.
9.473.	*	.	.	.	.	.	.	.	.	.	263628.
9.548.	*	.	.	.	.	.	.	.	.	.	255538.
9.623.	*	.	.	.	.	.	.	.	.	.	248586.
9.698.	*	.	.	.	.	.	.	.	.	.	241505.
9.773.	*	.	.	.	.	.	.	.	.	.	233903.
9.848.	*	.	.	.	.	.	.	.	.	.	225761.
9.923.	*	.	.	.	.	.	.	.	.	.	217055.
9.998.	*	.	.	.	.	.	.	.	.	.	207745.
10.073.	*	.	.	.	.	.	.	.	.	.	197772.
10.148.	*	.	.	.	.	.	.	.	.	.	187038.
10.223.	*	.	.	.	.	.	.	.	.	.	176064.
10.298.	*	.	.	.	.	.	.	.	.	.	165464.
10.373.	*	.	.	.	.	.	.	.	.	.	155249.
10.448.	*	.	.	.	.	.	.	.	.	.	145423.
10.523.	*	.	.	.	.	.	.	.	.	.	135989.
10.598.	*	.	.	.	.	.	.	.	.	.	126947.
10.673.	*	.	.	.	.	.	.	.	.	.	118294.
10.748.	*	.	.	.	.	.	.	.	.	.	110024.
10.823.	*	.	.	.	.	.	.	.	.	.	102127.

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10.898.          .          .*         .         .         .         .         .         .         .         .         94593.
10.973.          .         *           .         .         .         .         .         .         .         .         87411.
11.048.          .        *.           .         .         .         .         .         .         .         .         80599.
11.123.          .      *  .           .         .         .         .         .         .         .         .         74277.
11.198.          .     *   .           .         .         .         .         .         .         .         .         68433.
11.273.          .   *     .           .         .         .         .         .         .         .         .         63044.
11.348.          .  *      .           .         .         .         .         .         .         .         .         58082.
11.423.          . *       .           .         .         .         .         .         .         .         .         53522.
11.498.          .*        .           .         .         .         .         .         .         .         .         49338.
11.573.          *         .           .         .         .         .         .         .         .         .         45506.
11.648.         *.         .           .         .         .         .         .         .         .         .         41998.
11.723.        * .         .           .         .         .         .         .         .         .         .         38792.
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11.873.       *  .         .           .         .         .         .         .         .         .         .         33194.
11.948.      *   .         .           .         .         .         .         .         .         .         .         30759.
12.023.      *   .         .           .         .         .         .         .         .         .         .         28539.
12.098.     *    .         .           .         .         .         .         .         .         .         .         26515.
12.173.     *    .         .           .         .         .         .         .         .         .         .         24670.
12.248.    *     .         .           .         .         .         .         .         .         .         .         22985.
12.323.    *     .         .           .         .         .         .         .         .         .         .         21446.
12.398.    *     .         .           .         .         .         .         .         .         .         .         20038.
12.473.   *      .         .           .         .         .         .         .         .         .         .         18747.
12.548.   *      .         .           .         .         .         .         .         .         .         .         17562.
12.623.   *      .         .           .         .         .         .         .         .         .         .         16471.
12.698.  *       .         .           .         .         .         .         .         .         .         .         15464.
12.773.  *       .         .           .         .         .         .         .         .         .         .         14530.
12.848.  *       .         .           .         .         .         .         .         .         .         .         13662.
12.923.  *       .         .           .         .         .         .         .         .         .         .         12852.
12.998.  *       .         .           .         .         .         .         .         .         .         .         12093.
13.073.*         .         .           .         .         .         .         .         .         .         .         11379.
13.148.*         .         .           .         .         .         .         .         .         .         .         10703.
13.223.*         .         .           .         .         .         .         .         .         .         .         10061.
13.298.*         .         .           .         .         .         .         .         .         .         .          9451.
13.373.*         .         .           .         .         .         .         .         .         .         .          8863.
13.448.*         .         .           .         .         .         .         .         .         .         .          8253.
13.523*          .         .           .         .         .         .         .         .         .         .          7671.
13.598*          .         .           .         .         .         .         .         .         .         .          7169.
13.673*          .         .           .         .         .         .         .         .         .         .          6679.
13.748*          .         .           .         .         .         .         .         .         .         .          6017.
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APPENDIX B
DAMBRK ANALYSIS MODEL OUTPUT

(Runs # 1-5)

Run #1
(From Dam Through Section #3)

B O S S D A M B R K (tm)

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Version : 2.00
Serial Number : 0010361.200

Licensed to Woodward-Clyde Consultants

PROGRAM ORIGIN :

Boss DamBrk (tm) is an enhanced version of Professor D. L. Fread's 1988 NWS DAMBRK program.

DISCLAIMER :

Boss DamBrk (tm) is a complex program which requires engineering expertise to use correctly. Boss Corporation assumes absolutely no responsibility for the correct use of this program. All results obtained should be carefully examined by an experienced professional engineer to determine if they are reasonable and accurate.

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PROJECT DESCRIPTION :

PROJECT TITLE : 72-HR PMF BREACH FLOW
PROJECT NUMBER : 8851485F
DESCRIPTION : CAVE BUTTES DAM DAMBREAK ANALYSIS
ENGINEER : SFR
DATE OF RUN : 2/18/1990
TIME OF RUN : 11:10 am

INPUT DATA SUMMARY :

INPUT CONTROL PARAMETERS :

Number of Dynamic Routing Reaches (KKN)	1	
Type of Reservoir Routing (KUI)	0	(storage routing)
Number of multiple dams/bridges (MULDAM)	0	
No. of Reservoir Inflow Hydrograph Points (ITEH)	81	
No. of Informational Cross-Sections (NPRT)	0	
Flood-Plain Routing (KFLP)	0	(no)

RESERVOIR VOLUME DESCRIPTION :

Elevation vs. Surface Area Table

Elevation HSA(K) (ft MSL)	Surface Area SA(K) (acres)
1679.10	3120.000
1674.10	2860.000
1665.00	2260.000
1657.10	1820.000
1645.00	1260.000
1635.00	870.000
1620.00	440.000
1570.00	20.000

RESERVOIR and BREACH DESCRIPTION :

Initial Elevation of Reservoir Surface (YO, ft MSL)		1575.00
Bottom of Dam Elevation (DATUM, ft MSL)		1570.10
Top of Dam Elevation (HD, ft MSL)		1679.10
Water Surface Elevation at Time of Breach (HF, ft MSL)		1657.10
Breach Side Slope (Z)	1:	1.15
Breach Bottom Elevation (YBMIN, ft MSL)		1570.10
Breach Base Width (BB, ft)		65.00
Time of Breach Formation (TFH, hr)		1.66
Uncontrolled Spillway Crest Elevation (HSP, ft MSL)		1657.10
Uncontrolled Spillway Discharge Coefficient (CS)		.00
Spillway Gate Center Elevation (HGT, ft MSL)		.00
Spillway Gate Discharge Coefficient (CG)		.00
Dam Overtopping Discharge Coefficient (CDO)		-1610.00

WARNING: Dam overtopping discharge coefficient (CDO) should not be zero if overtopping may occur.

Turbine Discharge (QT, cfs)	2000.00

SPILLWAY/GATE RATING CURVE :

Head HEAD (ft)	Flow QSPILL (cfs)
.00	.0
2.90	7000.0
6.90	25000.0
10.90	51000.0
14.90	82000.0
17.00	100072.0
18.90	118000.0
22.00	146000.0

Hydrograph Time Intervals (DHF, hr)	.00
Routing Period (TEH, hr)	80.00
Breach Development Exponent (BREX)	1.00
Mud/Debris Flow Parameter (MUD)	0
Dry Bed Routing Parameter (IWF)	0
Hydraulic Radius Computation Parameter (KPRES)	1

Time Elapsed TI(K) (hr)	Upstream Inflow QI(K) (cfs)
.00	2000.0
1.00	2000.0
2.00	2000.0
3.00	2000.0
4.00	2000.0
5.00	2000.0
6.00	2000.0
7.00	2000.0
8.00	2000.0
9.00	2000.0
10.00	2000.0
11.00	2000.0
12.00	2000.0
13.00	2000.0
14.00	2000.0
15.00	2000.0
16.00	2200.0
17.00	2600.0
18.00	3000.0
19.00	3000.0
20.00	3000.0
21.00	3250.0
22.00	3500.0
23.00	3600.0
24.00	3700.0
25.00	3850.0
26.00	4000.0
27.00	9000.0
28.00	14000.0
29.00	15000.0
30.00	16000.0
31.00	17000.0
32.00	18000.0
33.00	25000.0
34.00	32000.0
35.00	37500.0
36.00	43000.0
37.00	43500.0
38.00	44000.0
39.00	62000.0
40.00	80000.0
41.00	126000.0
42.00	172000.0
43.00	136000.0
44.00	100000.0
45.00	73000.0
46.00	46000.0
47.00	41000.0
48.00	36000.0
49.00	30000.0
50.00	24000.0
51.00	17000.0
52.00	10000.0
53.00	8000.0
54.00	6000.0
55.00	6000.0

56.00	6000.0
57.00	6000.0
58.00	6000.0
59.00	6000.0
60.00	6000.0
61.00	6000.0
62.00	6000.0
63.00	6000.0
64.00	6000.0
65.00	6000.0
66.00	6000.0
67.00	6000.0
68.00	6000.0
69.00	6000.0
70.00	6000.0
71.00	5000.0
72.00	4000.0
73.00	3500.0
74.00	3000.0
75.00	2000.0
76.00	2000.0
77.00	2000.0
78.00	2000.0
79.00	2000.0
80.00	2000.0

SUMMARY OF PROGRAM CONTROL PARAMETERS :

Number of Cross-Sections Entered (NS)	5	
Number of Top Widths Entered (NCS)	8	
Number of Cross-Sectional Hydrographs to Plot (NTT)	4	
Cross-Sectional Smoothing Parameter (KSA)	0	
Downstream Supercritical Parameter (KSUPC)	0	(subcritical)
Landslide Simulation (KSL)	0	(no)
Number of Lateral Inflow Hydrographs (LQ)	0	
Number of Points in Gate Control Curve (KCG)	0	

CROSS-SECTIONS WHERE HYDROGRAPH REQUESTED :
(maximum allowed = 6)

1 2 4 5

CHANNEL-VALLEY BOUNDARY CONDITIONS :

Max Discharge at Downstream End (QMAXD, cfs)	.0
Max Lateral Outflow due to Flood Wave (QLL, cfs/ft)	.0000
Initial Time-Step Size (DTHM, hr)	.0000
Time at which Dam Starts to Fail (TFI, hr)	.0000
Theta Weighting Factor (F1I)	.000
Stage Convergence Criterion (EPSY, ft)	.000
Initial Downstream Water Surface Elevation (YDN, ft MSL)	.00
Slope of Channel Downstream of Dam (SOM, ft/mi)	30.0000

CROSS-SECTION NUMBER : 1 AT UPSTREAM TOE OF DAM

Cross-Section Location (XS(I), mi)	.000
Flooding Elevation (FSTG(I), ft MSL)	.000
Initial Water Surface Elevation (YD, ft MSL)	.000

DOWNSTREAM REACH NUMBER : 1

Reach Contraction-Expansion Coefficient (FKC)	.000
Minimum Distance Between Interpolated Cross-Sections (DXM, mi)	.005

CROSS-SECTION and REACH DESCRIPTION :

Elevation HS(K,I) (ft MSL)	Channel Top Width BS(K,I) (ft)	Channel Manning n CM(K,I)	Storage Top Width BSS(K,I) (ft)	Left Top Width BSL(K,I) (ft)	Left Manning n CML(K,I)	Right Top Width BSR(K,I) (ft)	Right Manning n CMR(K,I)
1570.10	.0	.0900	.0	.0	.0000	.0	.0000
1575.00	600.0	.0900	.0	.0	.0000	.0	.0000
1580.00	1550.0	.0900	.0	.0	.0000	.0	.0000
1600.00	1800.0	.0900	.0	.0	.0000	.0	.0000
1620.00	2000.0	.0900	.0	.0	.0000	.0	.0000
1640.00	2100.0	.0900	.0	.0	.0000	.0	.0000
1660.00	2200.0	.0900	.0	.0	.0000	.0	.0000
1680.00	2300.0	.0900	.0	.0	.0000	.0	.0000

CROSS-SECTION NUMBER : 2

Cross-Section Location (XS(I), mi) .130

Flooding Elevation (FSTG(I), ft MSL) .000

Initial Water Surface Elevation (YD, ft MSL) .000

DOWNSTREAM REACH NUMBER : 2

Reach Contraction-Expansion Coefficient (FKC) .000

Minimum Distance Between Interpolated Cross-Sections (DXM, mi) .011

CROSS-SECTION and REACH DESCRIPTION :

Elevation HS(K,I) (ft MSL)	Channel Top Width BS(K,I) (ft)	Channel Manning n CM(K,I)	Storage Top Width BSS(K,I) (ft)	Left Top Width BSL(K,I) (ft)	Left Manning n CML(K,I)	Right Top Width BSR(K,I) (ft)	Right Manning n CMR(K,I)
1565.00	.0	.0700	.0	.0	.0000	.0	.0000
1570.00	1350.0	.0700	.0	.0	.0000	.0	.0000
1580.00	1600.0	.0700	.0	.0	.0000	.0	.0000
1600.00	1800.0	.0700	.0	.0	.0000	.0	.0000
1620.00	3100.0	.0700	.0	.0	.0000	.0	.0000
1640.00	3100.0	.0700	.0	.0	.0000	.0	.0000
1660.00	3400.0	.0700	.0	.0	.0000	.0	.0000
1680.00	3600.0	.0700	.0	.0	.0000	.0	.0000

CROSS-SECTION NUMBER : 3 TRANSITION SECTION

Cross-Section Location (XS(I), mi)	.210
Flooding Elevation (FSTG(I), ft MSL)	.000
Initial Water Surface Elevation (YD, ft MSL)	.000

DOWNSTREAM REACH NUMBER : 3

Reach Contraction-Expansion Coefficient (FKC)	.000
Minimum Distance Between Interpolated Cross-Sections (DXM, mi)	.030

CROSS-SECTION and REACH DESCRIPTION :

Elevation HS(K,I) (ft MSL)	Channel Top Width BS(K,I) (ft)	Channel Manning n CM(K,I)	Storage Top Width BSS(K,I) (ft)	Left Top Width BSL(K,I) (ft)	Left Manning n CML(K,I)	Right Top Width BSR(K,I) (ft)	Right Manning n CMR(K,I)
1562.00	.0	.0600	.0	.0	.0000	.0	.0000
1565.00	750.0	.0600	.0	.0	.0000	.0	.0000
1570.00	1500.0	.0600	.0	.0	.0000	.0	.0000
1575.00	1750.0	.0600	.0	.0	.0000	.0	.0000
1580.00	2000.0	.0600	.0	.0	.0000	.0	.0000
1600.00	2125.0	.0600	.0	.0	.0000	.0	.0000
1620.00	3200.0	.0600	.0	.0	.0000	.0	.0000
1660.00	3800.0	.0600	.0	.0	.0000	.0	.0000

CROSS-SECTION NUMBER : 4

Cross-Section Location (XS(I), mi) .300

Flooding Elevation (FSTG(I), ft MSL) .000

Initial Water Surface Elevation (YD, ft MSL) .000

DOWNSTREAM REACH NUMBER : 4

Reach Contraction-Expansion Coefficient (FKC) .000

Minimum Distance Between Interpolated Cross-Sections (DXM, mi) .030

CROSS-SECTION and REACH DESCRIPTION :

Elevation HS(K,I) (ft MSL)	Channel Top Width BS(K,I) (ft)	Channel Manning n CM(K,I)	Storage Top Width BSS(K,I) (ft)	Left Top Width BSL(K,I) (ft)	Left Manning n CML(K,I)	Right Top Width BSR(K,I) (ft)	Right Manning n CMR(K,I)
1560.00	.0	.0600	.0	.0	.0000	.0	.0000
1565.00	750.0	.0600	.0	.0	.0000	.0	.0000
1570.00	1500.0	.0600	.0	.0	.0000	.0	.0000
1575.00	1750.0	.0600	.0	.0	.0000	.0	.0000
1580.00	2000.0	.0600	.0	.0	.0000	.0	.0000
1600.00	2550.0	.0600	.0	.0	.0000	.0	.0000
1620.00	3550.0	.0600	.0	.0	.0000	.0	.0000
1640.00	4100.0	.0600	.0	.0	.0000	.0	.0000

CROSS-SECTION NUMBER : 5

Cross-Section Location (XS(I), mi)	.480
Flooding Elevation (FSTG(I), ft MSL)	.000
Initial Water Surface Elevation (YD, ft MSL)	.000

CROSS-SECTION DESCRIPTION :

Elevation HS(K,I) (ft MSL)	Channel Top Width BS(K,I) (ft)	Storage Top Width BSS(K,I) (ft)	Left Top Width BSL(K,I) (ft)	Right Top Width BSR(K,I) (ft)
1550.00	.0	.0	.0	.0
1560.00	1200.0	.0	.0	.0
1565.00	1850.0	.0	.0	.0
1570.00	2500.0	.0	.0	.0
1575.00	4050.0	.0	.0	.0
1580.00	5600.0	.0	.0	.0
1590.00	5950.0	.0	.0	.0
1600.00	6300.0	.0	.0	.0

DISTANCE BETWEEN INTERPOLATED CROSS-SECTIONS
(DXM) THAT WILL BE USED IN COMPUTATIONS :

Down Stream Reach Number I=1,NS1	Interp. Cross Section Distance DXM(I) (mi)
1	.0050
2	.0110
3	.0300
4	.0300

Total number of cross-sections (original+interpolated) 43

Maximum number of cross-sections allowed 300

OUTPUT DATA SUMMARY :

CROSS-SECTION and REACH SUMMARY :

Cross Section Number	Cross Section Location (mi)	Bottom Elevation (ft MSL)	Reach Number	Reach Length (mi)	Reach Slope (ft/mi)
1	.000	1570.100			
2	.130	1565.000	1	.130	39.231
3	.210	1562.000	2	.080	37.500
4	.300	1560.000	3	.090	22.222
5	.480	1550.000	4	.180	55.556

WARNING: Slopes greater than 50 ft/mi may cause supercritical flow

SLOPE INFORMATION FOR CROSS-SECTION REACHES :

Reach Number Section I	Water Surface Elevation YO (ft MSL)	Hydraulic Depth DA (ft)	Reach Bottom Slope SO (ft/m)	Dynamic Slope DS (ft/m)	Total Slope SOT (ft/m)	Critical Slope SC (ft/m)	Manning n CMN
1	1567.55	1.24	39.23	.53	39.76	580.18	.090
1	1572.50	2.48	39.23	.67	39.90	460.49	.090
1	1580.00	7.93	39.23	.99	40.22	312.80	.090
1	1600.00	25.69	39.23	1.50	40.73	211.39	.090
1	1620.00	35.19	39.23	1.67	40.90	190.33	.090
1	1640.00	54.32	39.23	1.95	41.18	164.68	.090
1	1660.00	69.73	39.23	2.13	41.36	151.53	.090
1	1680.00	85.67	39.23	2.30	41.53	141.48	.090
2	1563.50	1.07	37.50	.40	37.90	368.72	.070
2	1567.50	2.14	37.50	.51	38.01	292.65	.070
2	1575.00	8.02	37.50	.81	38.31	188.46	.070
2	1587.50	18.87	37.50	1.10	38.60	141.71	.070
2	1600.00	24.58	37.50	1.21	38.71	129.76	.070
2	1620.00	43.76	37.50	1.49	38.99	107.07	.070
2	1640.00	52.56	37.50	1.59	39.09	100.73	.070
2	1670.00	75.25	37.50	1.81	39.31	89.37	.070
3	1561.00	1.00	22.22	.43	22.66	277.20	.060
3	1565.00	2.00	22.22	.55	22.77	220.01	.060
3	1570.00	4.75	22.22	.74	22.97	164.90	.060
3	1575.00	8.71	22.22	.92	23.14	134.70	.060
3	1580.00	12.31	22.22	1.04	23.26	120.05	.060
3	1600.00	29.09	22.22	1.41	23.63	90.13	.060
3	1620.00	37.07	22.22	1.54	23.76	83.13	.060
3	1650.00	59.08	22.22	1.82	24.04	71.17	.060
4	1555.00	2.02	55.56	.36	55.92	219.31	.060
4	1562.50	4.04	55.56	.47	56.02	174.07	.060
4	1567.50	6.31	55.56	.55	56.11	150.04	.060
4	1572.50	9.44	55.56	.64	56.19	131.15	.060
4	1577.50	10.89	55.56	.67	56.23	125.07	.060
4	1590.00	16.63	55.56	.79	56.34	108.61	.060
4	1605.00	26.76	55.56	.95	56.50	92.67	.060
4	1620.00	37.69	55.56	1.08	56.63	82.68	.060

RESERVOIR DEPLETION SUMMARY :

Total Volume in Reservoir (acre-ft) 50609.0

DEFINITION OF RESERVOIR DEPLETION TABLE VARIABLES :

PARAMETER	UNITS	VARIABLE
Time step from start of analysis		I
Iterations necessary to solve flow equations		K
Elapsed time from start of analysis	hr	TTP(I)
Total outflow from dam	cfs	Q(I)
Elevation of water surface at dam	ft	H2
Elevation of breach bottom	ft	YB
Estimated depth of downstream flow	ft	D
Submergence coefficient		SUB
Velocity correction		VCOR
Total volume discharged from time of breach	ac-ft	OUTVOL
Breach width	ft	BB
Rectangular breach discharge coefficient		COFR
Inflow to reservoir	cfs	QI(I)
Breach outflow	cfs	QBRECH
Spillway outflow	cfs	QSPIL

RESERVOIR DEPLETION TABLE :

I	K	TTP(I)	Q(I)	H2	YB	D	SUB	VCOR	OUTVOL	BB
1	0	.000	2000	1575.00	1610.00	1574.14	1.00	1.00	.0	.
2	1	.100	2000	1575.00	1610.00	1574.15	1.00	1.00	16.5	.
3	1	.200	2000	1575.00	1610.00	1574.15	1.00	1.00	33.1	.
4	1	.300	2000	1575.00	1610.00	1574.15	1.00	1.00	49.6	.
5	1	.400	2000	1575.00	1610.00	1574.15	1.00	1.00	66.1	.
6	1	.500	2000	1575.00	1610.00	1574.15	1.00	1.00	82.6	.
7	1	.600	2000	1575.00	1610.00	1574.15	1.00	1.00	99.2	.
8	1	.700	2000	1575.00	1610.00	1574.15	1.00	1.00	115.7	.
9	1	.800	2000	1575.00	1610.00	1574.15	1.00	1.00	132.2	.
10	1	.900	2000	1575.00	1610.00	1574.15	1.00	1.00	148.8	.
11	1	1.000	2000	1575.00	1610.00	1574.15	1.00	1.00	165.3	.
12	1	1.100	2000	1575.00	1610.00	1574.15	1.00	1.00	181.8	.
13	1	1.200	2000	1575.00	1610.00	1574.15	1.00	1.00	198.3	.
14	1	1.300	2000	1575.00	1610.00	1574.15	1.00	1.00	214.9	.
15	1	1.400	2000	1575.00	1610.00	1574.15	1.00	1.00	231.4	.
16	1	1.500	2000	1575.00	1610.00	1574.15	1.00	1.00	247.9	.
17	1	1.600	2000	1575.00	1610.00	1574.15	1.00	1.00	264.5	.
18	1	1.700	2000	1575.00	1610.00	1574.15	1.00	1.00	281.0	.
19	1	1.800	2000	1575.00	1610.00	1574.15	1.00	1.00	297.5	.
20	1	1.900	2000	1575.00	1610.00	1574.15	1.00	1.00	314.0	.
21	1	2.000	2000	1575.00	1610.00	1574.15	1.00	1.00	330.6	.
22	1	2.100	2000	1575.00	1610.00	1574.15	1.00	1.00	347.1	.
23	1	4.200	2000	1575.00	1610.00	1574.15	1.00	1.00	694.2	.
24	1	6.300	2000	1575.00	1610.00	1574.15	1.00	1.00	1041.3	.
25	1	8.400	2000	1575.00	1610.00	1574.15	1.00	1.00	1388.4	.
26	1	10.500	2000	1575.00	1610.00	1574.15	1.00	1.00	1735.5	.
27	1	12.600	2000	1575.00	1610.00	1574.15	1.00	1.00	2082.6	.
28	1	14.700	2000	1575.00	1610.00	1574.15	1.00	1.00	2429.8	.
29	3	16.800	2000	1575.70	1610.00	1574.15	1.00	1.00	2776.9	.
30	3	18.900	2000	1577.45	1610.00	1574.15	1.00	1.00	3124.0	.
31	2	21.000	2000	1579.58	1610.00	1574.15	1.00	1.00	3471.1	.
32	2	23.100	2000	1581.84	1610.00	1574.15	1.00	1.00	3818.2	.
33	2	25.200	2000	1584.18	1610.00	1574.15	1.00	1.00	4165.3	.
34	3	27.300	2000	1589.73	1610.00	1574.15	1.00	1.00	4512.4	.
35	3	29.400	2000	1598.30	1610.00	1574.15	1.00	1.00	4859.5	.
36	2	31.500	2000	1606.84	1610.00	1574.15	1.00	1.00	5206.6	.
37	3	33.600	2000	1616.82	1610.00	1574.15	1.00	1.00	5553.7	.
38	3	35.700	2000	1627.60	1610.00	1574.15	1.00	1.00	5900.8	.
39	3	37.800	2000	1636.49	1610.00	1574.15	1.00	1.00	6247.9	.
40	2	39.900	2000	1645.72	1610.00	1574.15	1.00	1.00	6595.0	.
41	3	42.000	6132	1658.81	1610.00	1576.34	1.00	1.00	7300.7	.
42	2	42.033	6920	1659.05	1609.06	1576.62	1.00	1.00	7318.7	1.
43	1	42.066	8139	1659.28	1608.12	1577.01	1.00	1.00	7339.3	2.
44	1	42.100	9791	1659.50	1607.17	1577.48	1.00	1.00	7363.9	3.
45	1	42.133	11877	1659.72	1606.23	1577.99	1.00	1.00	7393.6	5.
46	1	42.166	14399	1659.94	1605.29	1578.53	1.00	1.00	7429.7	6.
47	1	42.199	17657	1660.14	1604.35	1579.15	1.00	1.00	7473.7	7.
48	1	42.232	21467	1660.34	1603.41	1579.77	1.00	1.00	7527.4	9.
49	1	42.266	25697	1660.53	1602.46	1580.31	1.00	1.00	7592.1	10.
50	1	42.299	30347	1660.72	1601.52	1580.81	1.00	1.00	7668.9	11.

RESERVOIR DEPLETION TABLE :

I	K	TTP(I)	Q(I)	H2	YB	D	SUB	VCOR	OUTVOL	BB
51	1	42.332	35416	1660.89	1600.58	1581.33	1.00	1.00	7759.2	13.
52	1	42.365	40904	1661.05	1599.64	1581.85	1.00	1.00	7863.9	14.
53	1	42.398	46808	1661.21	1598.70	1582.38	1.00	1.00	7984.2	15.
54	2	42.432	53047	1661.35	1597.75	1582.91	1.00	1.00	8121.2	16.
55	2	42.465	59621	1661.48	1596.81	1583.44	1.00	1.00	8275.8	18.
56	2	42.498	66607	1661.60	1595.87	1583.98	1.00	1.00	8448.9	19.
57	2	42.531	74003	1661.71	1594.93	1584.53	1.00	1.00	8641.8	20.
58	2	42.564	81804	1661.81	1593.99	1585.09	1.00	1.00	8855.6	22.
59	2	42.598	90008	1661.90	1593.04	1585.65	1.00	1.00	9091.3	23.
60	2	42.631	98611	1661.97	1592.10	1586.21	1.00	1.00	9350.1	24.
61	2	42.664	107608	1662.03	1591.16	1586.78	1.00	1.00	9633.0	26.
62	2	42.697	116994	1662.08	1590.22	1587.35	1.00	1.00	9941.1	27.
63	2	42.730	126763	1662.11	1589.28	1587.93	1.00	1.00	10275.5	28.
64	2	42.764	136910	1662.12	1588.33	1588.51	1.00	1.00	10637.3	29.
65	2	42.797	147427	1662.13	1587.39	1589.10	1.00	1.00	11027.4	31.
66	2	42.830	158308	1662.11	1586.45	1589.68	1.00	1.00	11446.8	32.
67	2	42.863	169703	1662.08	1585.51	1590.28	1.00	1.00	11896.8	33.
68	2	42.896	181443	1662.04	1584.57	1590.87	1.00	1.00	12378.5	35.
69	2	42.930	246943	1661.94	1583.62	1593.94	1.00	1.00	12966.2	36.
70	2	42.963	254281	1661.79	1582.68	1594.26	1.00	1.00	13653.9	37.
71	2	42.996	261578	1661.63	1581.74	1594.57	1.00	1.00	14361.6	39.
72	2	43.029	268889	1661.46	1580.80	1594.89	1.00	1.00	15089.3	40.
73	2	43.062	276208	1661.28	1579.86	1595.20	1.00	1.00	15837.1	41.
74	2	43.096	283528	1661.08	1578.91	1595.50	1.00	1.00	16605.1	42.
75	2	43.129	290844	1660.87	1577.97	1595.80	1.00	1.00	17393.0	44.
76	2	43.162	298148	1660.65	1577.03	1596.10	1.00	1.00	18201.1	45.
77	2	43.195	305434	1660.41	1576.09	1596.40	1.00	1.00	19029.1	46.
78	2	43.228	312694	1660.16	1575.15	1596.69	1.00	1.00	19877.1	48.
79	2	43.262	320123	1659.90	1574.20	1596.98	1.00	1.00	20745.3	49.
80	2	43.295	327877	1659.63	1573.26	1597.28	1.00	1.00	21634.3	50.
81	2	43.328	335603	1659.34	1572.32	1597.58	1.00	1.00	22544.5	52.
82	2	43.361	343293	1659.03	1571.38	1597.88	1.00	1.00	23475.9	53.
83	2	43.394	350937	1658.71	1570.44	1598.17	1.00	1.00	24428.3	54.
84	2	43.428	353518	1658.37	1570.10	1598.27	1.00	1.00	25394.8	55.
85	1	43.461	353219	1658.03	1570.10	1598.26	1.00	1.00	26364.3	57.
86	1	43.494	352837	1657.69	1570.10	1598.24	1.00	1.00	27333.0	58.
87	1	43.527	352379	1657.34	1570.10	1598.23	1.00	1.00	28300.5	59.
88	1	43.560	352120	1656.98	1570.10	1598.22	1.00	1.00	29267.0	61.
89	1	43.594	352370	1656.62	1570.10	1598.23	1.00	1.00	30233.5	62.
90	1	43.627	352549	1656.26	1570.10	1598.23	1.00	1.00	31200.6	63.
91	1	43.660	352656	1655.89	1570.10	1598.24	1.00	1.00	32168.0	65.
92	1	43.693	349524	1655.51	1570.10	1598.12	1.00	1.00	33131.3	65.
93	1	43.726	346394	1655.14	1570.10	1598.00	1.00	1.00	34086.1	65.
94	1	43.760	343274	1654.76	1570.10	1597.88	1.00	1.00	35032.2	65.
95	1	43.793	340164	1654.39	1570.10	1597.76	1.00	1.00	35969.8	65.
96	1	43.826	337063	1654.01	1570.10	1597.64	1.00	1.00	36898.9	65.
97	1	43.859	333972	1653.63	1570.10	1597.52	1.00	1.00	37819.5	65.
98	1	43.892	330890	1653.25	1570.10	1597.40	1.00	1.00	38731.7	65.
99	1	43.926	327817	1652.87	1570.10	1597.28	1.00	1.00	39635.3	65.
100	1	43.959	324753	1652.49	1570.10	1597.16	1.00	1.00	40530.6	65.

RESERVOIR DEPLETION TABLE :

I	K	TTP(I)	Q(I)	H2	YB	D	SUB	VCOR	OUTVOL	BB
101	1	43.992	321697	1652.11	1570.10	1597.04	1.00	1.00	41417.5	65.
102	1	44.025	318651	1651.73	1570.10	1596.92	1.00	1.00	42296.0	65.
103	1	44.058	315616	1651.34	1570.10	1596.80	1.00	1.00	43166.1	65.
104	1	44.092	312593	1650.96	1570.10	1596.68	1.00	1.00	44028.0	65.
105	1	44.125	309581	1650.58	1570.10	1596.56	1.00	1.00	44881.5	65.
106	1	44.158	306580	1650.19	1570.10	1596.44	1.00	1.00	45726.8	65.
107	1	44.191	303590	1649.80	1570.10	1596.32	1.00	1.00	46563.9	65.
108	1	44.224	300611	1649.42	1570.10	1596.20	1.00	1.00	47392.8	65.
109	1	44.258	297642	1649.03	1570.10	1596.08	1.00	1.00	48213.6	65.
110	1	44.291	294682	1648.64	1570.10	1595.96	1.00	1.00	49026.2	65.
111	1	44.324	291733	1648.25	1570.10	1595.84	1.00	1.00	49830.7	65.
112	1	44.357	288792	1647.86	1570.10	1595.72	1.00	1.00	50627.1	65.
113	1	44.390	285861	1647.47	1570.10	1595.60	1.00	1.00	51415.5	65.
114	1	44.424	282938	1647.08	1570.10	1595.48	1.00	1.00	52195.8	65.
115	1	44.457	280023	1646.68	1570.10	1595.36	1.00	1.00	52968.1	65.
116	1	44.490	277116	1646.29	1570.10	1595.23	1.00	1.00	53732.5	65.
117	1	44.523	274217	1645.89	1570.10	1595.11	1.00	1.00	54488.9	65.
118	1	44.556	271325	1645.49	1570.10	1594.99	1.00	1.00	55237.3	65.
119	1	44.590	268439	1645.09	1570.10	1594.87	1.00	1.00	55977.8	65.
120	1	44.623	265563	1644.69	1570.10	1594.75	1.00	1.00	56710.4	65.
121	1	44.656	262698	1644.29	1570.10	1594.62	1.00	1.00	57435.1	65.
122	1	44.689	259846	1643.89	1570.10	1594.50	1.00	1.00	58152.0	65.
123	1	44.722	257005	1643.49	1570.10	1594.38	1.00	1.00	58861.1	65.
124	1	44.756	254177	1643.08	1570.10	1594.26	1.00	1.00	59562.4	65.
125	1	44.789	251359	1642.68	1570.10	1594.13	1.00	1.00	60255.9	65.
126	1	44.822	248553	1642.27	1570.10	1594.01	1.00	1.00	60941.7	65.
127	1	44.855	245757	1641.87	1570.10	1593.89	1.00	1.00	61619.9	65.
128	1	44.888	242971	1641.46	1570.10	1593.76	1.00	1.00	62290.4	65.
129	1	44.922	240195	1641.05	1570.10	1593.64	1.00	1.00	62953.2	65.
130	1	44.955	237429	1640.64	1570.10	1593.52	1.00	1.00	63608.5	65.
131	1	44.988	234671	1640.23	1570.10	1593.39	1.00	1.00	64256.1	65.
132	1	45.021	231922	1639.82	1570.10	1593.27	1.00	1.00	64896.3	65.
133	1	45.054	229182	1639.40	1570.10	1593.15	1.00	1.00	65528.9	65.
134	1	45.088	226449	1638.99	1570.10	1593.02	1.00	1.00	66153.9	65.
135	1	45.121	223723	1638.57	1570.10	1592.90	1.00	1.00	66771.5	65.
136	1	45.154	221004	1638.15	1570.10	1592.77	1.00	1.00	67381.7	65.
137	1	45.187	218292	1637.73	1570.10	1592.65	1.00	1.00	67984.3	65.
138	1	45.220	215585	1637.30	1570.10	1592.52	1.00	1.00	68579.6	65.
139	1	45.254	212884	1636.88	1570.10	1592.39	1.00	1.00	69167.4	65.
140	1	45.287	210187	1636.45	1570.10	1592.27	1.00	1.00	69747.8	65.
141	1	45.320	207494	1636.02	1570.10	1592.14	1.00	1.00	70320.8	65.
142	2	45.356	204536	1635.54	1570.10	1592.00	1.00	1.00	70942.6	65.
143	2	45.397	201286	1635.01	1570.10	1591.84	1.00	1.00	71616.3	65.
144	2	45.441	197726	1634.43	1570.10	1591.67	1.00	1.00	72344.9	65.
145	2	45.489	193841	1633.79	1570.10	1591.48	1.00	1.00	73131.4	65.
146	2	45.543	189604	1633.08	1570.10	1591.28	1.00	1.00	73978.6	65.
147	2	45.602	184983	1632.29	1570.10	1591.05	1.00	1.00	74889.0	65.
148	2	45.666	179948	1631.42	1570.10	1590.80	1.00	1.00	75864.6	65.
149	2	45.738	174462	1630.46	1570.10	1590.52	1.00	1.00	76906.9	65.
150	2	45.816	168484	1629.40	1570.10	1590.21	1.00	1.00	78016.3	65.

RESERVOIR DEPLETION TABLE :

I	K	TTP(I)	Q(I)	H2	YB	D	SUB	VCOR	OUTVOL	BB
151	2	45.902	161969	1628.21	1570.10	1589.87	1.00	1.00	79192.1	65.
152	2	45.997	154863	1626.88	1570.10	1589.50	1.00	1.00	80432.3	65.
153	2	46.101	147179	1625.41	1570.10	1589.08	1.00	1.00	81732.8	65.
154	2	46.215	138959	1623.79	1570.10	1588.63	1.00	1.00	83088.0	65.
155	2	46.342	130169	1622.00	1570.10	1588.13	1.00	1.00	84490.1	65.
156	2	46.480	120761	1620.01	1570.10	1587.58	1.00	1.00	85928.1	65.
157	2	46.633	111143	1617.88	1570.10	1587.00	1.00	1.00	87390.0	65.
158	2	46.801	101852	1615.73	1570.10	1586.42	1.00	1.00	88867.0	65.
159	1	46.985	92969	1613.57	1570.10	1585.84	1.00	1.00	90353.0	65.
160	2	47.188	84564	1611.43	1570.10	1585.28	1.00	1.00	91842.6	65.
161	2	47.412	76694	1609.31	1570.10	1584.72	1.00	1.00	93330.9	65.
162	2	47.657	69401	1607.25	1570.10	1584.19	1.00	1.00	94814.2	65.
163	2	47.928	62707	1605.25	1570.10	1583.68	1.00	1.00	96289.5	65.
164	2	48.225	56586	1603.33	1570.10	1583.20	1.00	1.00	97755.0	65.
165	2	48.552	50978	1601.47	1570.10	1582.73	1.00	1.00	99208.5	65.
166	2	48.912	45827	1599.66	1570.10	1582.29	1.00	1.00	100647.4	65.
167	2	49.307	41064	1597.90	1570.10	1581.86	1.00	1.00	102068.1	65.
168	2	49.742	36605	1596.16	1570.10	1581.44	1.00	1.00	103465.1	65.
169	2	50.221	32313	1594.37	1570.10	1581.01	1.00	1.00	104828.6	65.
170	2	50.748	27991	1592.46	1570.10	1580.56	1.00	1.00	106141.0	65.
171	2	51.327	23483	1590.30	1570.10	1580.06	1.00	1.00	107373.2	65.
172	2	51.965	18699	1587.78	1570.10	1579.32	1.00	1.00	108484.0	65.
173	2	52.665	14333	1585.20	1570.10	1578.52	1.00	1.00	109440.9	65.
174	2	53.437	11028	1583.00	1570.10	1577.79	1.00	1.00	110249.0	65.
175	2	54.285	8539	1581.13	1570.10	1577.13	1.00	1.00	110934.8	65.
176	3	55.218	7009	1579.87	1570.10	1576.65	1.00	1.00	111534.3	65.
177	3	56.244	6355	1579.29	1570.10	1576.42	1.00	1.00	112101.1	65.
178	2	57.373	6109	1579.07	1570.10	1576.33	1.00	1.00	112682.6	65.
179	2	58.615	6028	1579.00	1570.10	1576.29	1.00	1.00	113305.5	65.
180	2	59.981	6006	1578.98	1570.10	1576.29	1.00	1.00	113984.9	65.
181	2	61.483	6001	1578.97	1570.10	1576.28	1.00	1.00	114730.4	65.
182	1	63.136	6000	1578.97	1570.10	1576.28	1.00	1.00	115550.1	65.
183	1	64.954	5999	1578.97	1570.10	1576.28	1.00	1.00	116451.7	65.
184	1	66.954	5999	1578.97	1570.10	1576.28	1.00	1.00	117443.4	65.
185	1	69.154	6000	1578.97	1570.10	1576.28	1.00	1.00	118534.3	65.
186	3	71.574	5151	1578.18	1570.10	1575.94	1.00	1.00	119649.4	65.
187	4	74.236	3356	1576.40	1570.10	1575.01	.96	1.01	120585.3	65.
188	0	80.093	3021							

RESERVOIR FLOW SUMMARY :

Initial Flow (Q(1), cfs)	2000.
Maximum Flow (Qmax, cfs)	353519.
Final Flow (Q(NU), cfs)	3021.
Time to Maximum Flow (TP, hr)	43.43
Number of Time Steps or Number of Hydrograph Ordinates (NNU)	188
Total Volume Discharged from Reservoir (DISVOL, acre-ft)	120585.
Number of Intermediate Cross-Sections (NN(NS))	43
Number of Time Steps (NNU)	188

INITIAL CONDITIONS TABLE :

Cross Section Number I	Cross Section Location XI (mi)	Normal Flow Water Elevation YN (ft MSL)	Normal Flow Depth DEPN (ft)	Critical Flow Water Elevation YC (ft MSL)	Critical Flow Depth DEPC (ft)	Froude Indicator (0 = sub) (1 = sup) IFR	Iteration Count for Computing Nrml Dpth ITN
1	.000	1573.94	3.84	1572.41	2.31	0	13
2	.005	1573.69	3.78	1572.17	2.26	0	13
3	.010	1573.43	3.72	1571.94	2.23	0	13
4	.015	1573.17	3.66	1571.70	2.19	0	13
5	.020	1572.92	3.60	1571.47	2.15	0	13
6	.025	1572.67	3.55	1571.25	2.13	0	13
7	.030	1572.43	3.51	1571.02	2.09	0	13
8	.035	1572.18	3.46	1570.80	2.07	0	13
9	.040	1571.94	3.41	1570.57	2.03	0	13
10	.045	1571.71	3.37	1570.35	2.01	0	13
11	.050	1571.46	3.32	1570.13	1.99	0	13
12	.055	1571.23	3.29	1569.91	1.96	0	13
13	.060	1571.00	3.25	1569.69	1.94	0	13
14	.065	1570.77	3.22	1569.47	1.92	0	13
15	.070	1570.54	3.18	1569.24	1.89	0	13
16	.075	1570.31	3.15	1569.02	1.87	0	13
17	.080	1570.09	3.13	1568.82	1.86	0	13
18	.085	1569.85	3.09	1568.60	1.83	0	13
19	.090	1569.64	3.07	1568.38	1.81	0	13
20	.095	1569.40	3.03	1568.17	1.80	0	13
21	.100	1569.19	3.01	1567.95	1.77	0	13
22	.105	1568.97	2.99	1567.74	1.76	0	13
23	.110	1568.73	2.95	1567.53	1.75	0	13
24	.115	1568.51	2.93	1567.31	1.72	0	13
25	.120	1568.30	2.90	1567.11	1.71	0	13
26	.125	1568.08	2.88	1566.90	1.70	0	13
27	.130	1567.88	2.88	1566.69	1.69	0	13
28	.141	1567.20	2.63	1566.27	1.70	0	13
29	.153	1566.78	2.64	1565.84	1.70	0	13
30	.164	1566.36	2.65	1565.42	1.70	0	13
31	.176	1565.94	2.65	1564.99	1.70	0	13
32	.187	1565.53	2.67	1564.57	1.71	0	13
33	.199	1565.11	2.68	1564.15	1.72	0	13
34	.210	1564.98	2.98	1563.74	1.74	0	13
35	.240	1564.37	3.04	1563.21	1.88	0	13
36	.270	1563.89	3.23	1562.68	2.01	0	13
37	.300	1562.86	2.86	1562.14	2.14	0	12
38	.330	1561.27	2.94	1560.52	2.19	0	12
39	.360	1559.65	2.98	1558.90	2.23	0	12
40	.390	1558.02	3.02	1557.26	2.26	0	12
41	.420	1556.40	3.07	1555.63	2.29	0	12
42	.450	1554.76	3.10	1553.98	2.32	0	12
43	.480	1553.12	3.12	1552.34	2.34	0	12

SUMMARY OF INITIAL DOWNSTREAM BOUNDARY CONDITIONS :

Cross-section Number at Downstream End of Model (IN)	43
Initial Water Surface Elev. at Downstream End (YNN, ft MSL)	1553.119
Initial Flow Depth at Downstream End (DEP, ft)	3.119

COMPUTED STEP BACKWATER TABLE :

Cross Section Number I	Cross Section Location X (mi)	Flow QIL (cfs)	Backwater Water Surface Elevation YIL (ft MSL)	Backwater Water Depth DEP (ft)	Iteration Count for Computing Backwater ITB
42	.450	2000.0	1554.777	3.110	4
41	.420	2000.0	1556.410	3.077	4
40	.390	2000.0	1558.045	3.045	4
39	.360	2000.0	1559.671	3.004	4
38	.330	2000.0	1561.289	2.956	4
37	.300	2000.0	1562.896	2.896	4
36	.270	2000.0	1563.932	3.265	5
35	.240	2000.0	1564.517	3.184	5
34	.210	2000.0	1565.016	3.016	4
33	.199	2000.0	1565.279	2.850	5
32	.187	2000.0	1565.610	2.753	5
31	.176	2000.0	1565.987	2.701	5
30	.164	2000.0	1566.388	2.674	5
29	.153	2000.0	1566.800	2.657	5
28	.141	2000.0	1567.217	2.646	5
27	.130	2000.0	1567.637	2.637	5
26	.125	2000.0	1567.926	2.730	5
25	.120	2000.0	1568.183	2.791	5
24	.115	2000.0	1568.424	2.835	5
23	.110	2000.0	1568.656	2.871	5
22	.105	2000.0	1568.884	2.903	5
21	.100	2000.0	1569.109	2.932	5
20	.095	2000.0	1569.333	2.960	5
19	.090	2000.0	1569.557	2.988	5
18	.085	2000.0	1569.781	3.016	5
17	.080	2000.0	1570.005	3.043	5
16	.075	2000.0	1570.230	3.072	5
15	.070	2000.0	1570.455	3.102	5
14	.065	2000.0	1570.682	3.132	5
13	.060	2000.0	1570.910	3.164	5
12	.055	2000.0	1571.138	3.196	5
11	.050	2000.0	1571.368	3.230	5
10	.045	2000.0	1571.600	3.265	5
9	.040	2000.0	1571.833	3.302	5
8	.035	2000.0	1572.067	3.340	5
7	.030	2000.0	1572.303	3.380	5
6	.025	2000.0	1572.542	3.422	5
5	.020	2000.0	1572.782	3.466	5
4	.015	2000.0	1573.024	3.513	5
3	.010	2000.0	1573.269	3.561	5
2	.005	2000.0	1573.516	3.612	5
1	.000	2000.0	1573.766	3.667	5

Interp. Cross Section I	Water Elevation YI(I) (ft MSL)	Initial Flow QDI(I) (cfs)
1	1573.77	2000.0
2	1573.52	2000.0
3	1573.27	2000.0
4	1573.02	2000.0
5	1572.78	2000.0
6	1572.54	2000.0
7	1572.30	2000.0
8	1572.07	2000.0
9	1571.83	2000.0
10	1571.60	2000.0
11	1571.37	2000.0
12	1571.14	2000.0
13	1570.91	2000.0
14	1570.68	2000.0
15	1570.46	2000.0
16	1570.23	2000.0
17	1570.01	2000.0
18	1569.78	2000.0
19	1569.56	2000.0
20	1569.33	2000.0
21	1569.11	2000.0
22	1568.88	2000.0
23	1568.66	2000.0
24	1568.42	2000.0
25	1568.18	2000.0
26	1567.93	2000.0
27	1567.64	2000.0
28	1567.22	2000.0
29	1566.80	2000.0
30	1566.39	2000.0
31	1565.99	2000.0
32	1565.61	2000.0
33	1565.28	2000.0
34	1565.02	2000.0
35	1564.52	2000.0
36	1563.93	2000.0
37	1562.90	2000.0
38	1561.29	2000.0
39	1559.67	2000.0
40	1558.04	2000.0
41	1556.41	2000.0
42	1554.78	2000.0
43	1553.12	2000.0

Normalized conservation of mass as percent of maximum flow in reach = .00

ROUTING COMPLETED :

Number of Time Steps Used (KTIME)	246
Maximum Number of Time Steps Allowed	1199
Total Time of Flood Routing (TT, hr)	80.0

FLOOD CREST SUMMARY :

Cross Section Location (mi)	Maximum Stage Elevation (ft MSL)	Maximum Flow (cfs)	Time To Maximum Stage (hr)	Maximum Flow Velocity (ft/sec)	Flood Elevation (ft MSL)	Time To Flood Elevation (hr)
.000	1594.82	353124	43.469	11.32	.00	.00
.005	1594.54	353120	43.469	11.36	.00	.00
.010	1594.26	353117	43.469	11.40	.00	.00
.015	1593.98	353116	43.469	11.44	.00	.00
.020	1593.69	353115	43.469	11.47	.00	.00
.025	1593.40	353116	43.469	11.51	.00	.00
.030	1593.11	353118	43.469	11.55	.00	.00
.035	1592.82	353120	43.469	11.58	.00	.00
.040	1592.53	353124	43.469	11.61	.00	.00
.045	1592.23	353128	43.469	11.64	.00	.00
.050	1591.93	353133	43.469	11.67	.00	.00
.055	1591.64	353139	43.469	11.70	.00	.00
.060	1591.34	353145	43.469	11.73	.00	.00
.065	1591.04	353151	43.469	11.75	.00	.00
.070	1590.74	353157	43.469	11.78	.00	.00
.075	1590.44	353164	43.469	11.80	.00	.00
.080	1590.13	353171	43.469	11.82	.00	.00
.085	1589.83	353178	43.469	11.83	.00	.00
.090	1589.53	353185	43.469	11.85	.00	.00
.095	1589.23	353192	43.469	11.86	.00	.00
.100	1588.94	353198	43.469	11.86	.00	.00
.105	1588.64	353205	43.469	11.86	.00	.00
.110	1588.34	353211	43.469	11.86	.00	.00
.115	1588.05	353217	43.469	11.86	.00	.00
.120	1587.76	353223	43.469	11.85	.00	.00
.125	1587.47	353228	43.469	11.84	.00	.00
.130	1587.19	353232	43.469	11.82	.00	.00
.141	1586.72	353241	43.469	11.96	.00	.00
.153	1586.26	353249	43.469	12.06	.00	.00
.164	1585.80	353253	43.469	12.09	.00	.00
.176	1585.38	353256	43.469	12.02	.00	.00
.187	1585.04	353255	43.469	11.71	.00	.00
.199	1584.81	353254	43.469	11.10	.00	.00
.210	1584.62	353253	43.469	10.53	.00	.00
.240	1583.70	353242	43.469	11.04	.00	.00
.270	1582.48	353223	43.469	11.86	.00	.00
.300	1580.51	353186	43.552	13.58	.00	.00
.330	1579.38	353102	43.552	12.63	.00	.00
.360	1578.16	352949	43.552	11.96	.00	.00
.390	1576.86	352726	43.552	11.50	.00	.00
.420	1575.51	352668	43.552	11.21	.00	.00
.450	1574.11	352768	43.635	11.11	.00	.00
.480	1572.64	352849	43.635	11.23	.00	.00

COMPUTED WATER SURFACE ELEVATIONS AT REQUESTED STATIONS WHERE HYDROGRAPHS ARE PLOTTED :

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
1	.000	1573.77	1567.64	1562.90	1553.13		
2	2.100	1573.77	1567.64	1562.90	1553.13		
3	4.200	1573.77	1567.64	1562.90	1553.13		
4	6.300	1573.77	1567.64	1562.90	1553.13		
5	8.400	1573.77	1567.64	1562.90	1553.13		
6	10.500	1573.77	1567.64	1562.90	1553.13		
7	12.600	1573.77	1567.64	1562.90	1553.13		
8	14.700	1573.77	1567.64	1562.90	1553.13		
9	16.800	1573.77	1567.64	1562.90	1553.13		
10	18.900	1573.77	1567.64	1562.90	1553.13		
11	21.000	1573.77	1567.64	1562.90	1553.13		
12	23.100	1573.77	1567.64	1562.90	1553.13		
13	25.200	1573.77	1567.64	1562.90	1553.13		
14	27.300	1573.77	1567.64	1562.90	1553.13		
15	29.400	1573.77	1567.64	1562.90	1553.13		
16	31.500	1573.77	1567.64	1562.90	1553.13		
17	33.600	1573.77	1567.64	1562.90	1553.13		
18	35.700	1573.77	1567.64	1562.90	1553.13		
19	37.800	1573.77	1567.64	1562.90	1553.13		
20	39.900	1573.77	1567.64	1562.90	1553.13		
21	39.983	1573.86	1567.66	1562.90	1553.13		
22	40.066	1573.97	1567.72	1562.93	1553.15		
23	40.149	1574.06	1567.80	1562.99	1553.19		
24	40.232	1574.15	1567.88	1563.08	1553.27		
25	40.315	1574.24	1567.94	1563.16	1553.36		
26	40.398	1574.33	1568.01	1563.24	1553.44		
27	40.481	1574.41	1568.08	1563.31	1553.53		
28	40.564	1574.49	1568.14	1563.39	1553.61		
29	40.647	1574.56	1568.20	1563.46	1553.69		
30	40.730	1574.64	1568.26	1563.52	1553.76		
31	40.813	1574.71	1568.32	1563.59	1553.83		
32	40.896	1574.78	1568.37	1563.65	1553.90		
33	40.979	1574.85	1568.43	1563.71	1553.97		
34	41.062	1574.92	1568.48	1563.77	1554.04		
35	41.145	1574.98	1568.53	1563.83	1554.10		
36	41.228	1575.04	1568.58	1563.89	1554.16		
37	41.311	1575.11	1568.63	1563.94	1554.22		
38	41.394	1575.17	1568.68	1564.00	1554.28		
39	41.477	1575.23	1568.72	1564.05	1554.34		
40	41.560	1575.30	1568.77	1564.10	1554.40		
41	41.643	1575.35	1568.81	1564.15	1554.45		
42	41.726	1575.41	1568.86	1564.20	1554.51		
43	41.809	1575.47	1568.90	1564.25	1554.56		
44	41.892	1575.53	1568.94	1564.30	1554.61		
45	41.975	1575.58	1568.99	1564.35	1554.66		
46	42.058	1576.06	1569.17	1564.45	1554.74		
47	42.141	1577.10	1569.77	1564.85	1555.01		
48	42.224	1578.43	1570.78	1565.80	1555.79		
49	42.307	1579.82	1572.06	1567.12	1557.10		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
50	42.390	1581.11	1573.44	1568.50	1558.61		
51	42.473	1582.31	1574.80	1569.84	1560.07		
52	42.556	1583.50	1576.12	1571.02	1561.46		
53	42.639	1584.70	1577.41	1572.10	1562.77		
54	42.722	1585.92	1578.67	1573.16	1564.01		
55	42.805	1587.16	1579.91	1574.21	1565.20		
56	42.888	1588.41	1581.14	1575.25	1566.35		
57	42.971	1591.27	1583.55	1577.11	1568.20		
58	43.054	1592.23	1584.87	1578.51	1569.73		
59	43.137	1592.77	1585.30	1578.94	1570.34		
60	43.220	1593.43	1585.90	1579.40	1570.92		
61	43.303	1594.03	1586.43	1579.86	1571.58		
62	43.386	1594.65	1586.98	1580.29	1572.16		
63	43.469	1594.82	1587.19	1580.51	1572.53		
64	43.552	1594.80	1587.18	1580.51	1572.60		
65	43.635	1594.81	1587.18	1580.51	1572.64		
66	43.718	1594.66	1587.07	1580.44	1572.62		
67	43.801	1594.41	1586.87	1580.30	1572.47		
68	43.884	1594.16	1586.65	1580.13	1572.29		
69	43.967	1593.92	1586.44	1579.96	1572.10		
70	44.050	1593.67	1586.22	1579.79	1571.89		
71	44.133	1593.42	1586.00	1579.61	1571.68		
72	44.216	1593.17	1585.78	1579.43	1571.45		
73	44.299	1592.92	1585.56	1579.24	1571.20		
74	44.382	1592.66	1585.33	1579.05	1570.94		
75	44.465	1592.41	1585.11	1578.86	1570.66		
76	44.548	1592.16	1584.88	1578.67	1570.35		
77	44.631	1591.90	1584.65	1578.47	1570.01		
78	44.714	1591.64	1584.42	1578.27	1569.76		
79	44.797	1591.39	1584.19	1578.07	1569.55		
80	44.880	1591.13	1583.95	1577.87	1569.36		
81	44.963	1590.87	1583.72	1577.67	1569.18		
82	45.046	1590.61	1583.48	1577.46	1569.00		
83	45.129	1590.35	1583.24	1577.25	1568.82		
84	45.213	1590.08	1582.99	1577.04	1568.62		
85	45.298	1589.81	1582.74	1576.82	1568.41		
86	45.383	1589.53	1582.48	1576.60	1568.20		
87	45.469	1589.25	1582.22	1576.37	1567.98		
88	45.557	1588.96	1581.95	1576.14	1567.75		
89	45.645	1588.67	1581.68	1575.90	1567.51		
90	45.734	1588.38	1581.40	1575.66	1567.27		
91	45.824	1588.08	1581.11	1575.43	1567.02		
92	45.914	1587.77	1580.82	1575.19	1566.76		
93	46.006	1587.47	1580.52	1574.94	1566.50		
94	46.099	1587.15	1580.22	1574.69	1566.23		
95	46.192	1586.84	1579.92	1574.43	1565.95		
96	46.287	1586.52	1579.61	1574.18	1565.67		
97	46.382	1586.20	1579.29	1573.92	1565.38		
98	46.478	1585.87	1578.97	1573.65	1565.08		
99	46.576	1585.56	1578.66	1573.39	1564.78		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
100	46.674	1585.25	1578.35	1573.13	1564.48		
101	46.773	1584.95	1578.05	1572.88	1564.19		
102	46.874	1584.68	1577.77	1572.65	1563.91		
103	46.975	1584.40	1577.49	1572.42	1563.64		
104	47.077	1584.16	1577.23	1572.20	1563.39		
105	47.180	1583.91	1576.98	1572.00	1563.14		
106	47.285	1583.68	1576.74	1571.80	1562.91		
107	47.390	1583.46	1576.51	1571.61	1562.68		
108	47.497	1583.25	1576.28	1571.43	1562.46		
109	47.604	1583.05	1576.07	1571.26	1562.25		
110	47.713	1582.86	1575.87	1571.09	1562.05		
111	47.822	1582.68	1575.67	1570.93	1561.86		
112	47.933	1582.49	1575.48	1570.77	1561.67		
113	48.045	1582.33	1575.30	1570.63	1561.49		
114	48.158	1582.17	1575.13	1570.48	1561.32		
115	48.272	1582.01	1574.96	1570.34	1561.15		
116	48.387	1581.87	1574.80	1570.20	1560.99		
117	48.504	1581.72	1574.65	1570.06	1560.83		
118	48.621	1581.58	1574.49	1569.93	1560.68		
119	48.740	1581.45	1574.35	1569.79	1560.53		
120	48.860	1581.31	1574.20	1569.66	1560.39		
121	48.981	1581.18	1574.06	1569.53	1560.25		
122	49.104	1581.06	1573.93	1569.41	1560.11		
123	49.227	1580.94	1573.80	1569.29	1559.98		
124	49.352	1580.81	1573.66	1569.17	1559.85		
125	49.478	1580.70	1573.54	1569.05	1559.72		
126	49.605	1580.58	1573.42	1568.94	1559.60		
127	49.734	1580.45	1573.29	1568.82	1559.48		
128	49.864	1580.34	1573.17	1568.71	1559.36		
129	49.995	1580.22	1573.05	1568.60	1559.24		
130	50.127	1580.10	1572.93	1568.49	1559.13		
131	50.261	1579.97	1572.81	1568.37	1559.01		
132	50.396	1579.85	1572.69	1568.26	1558.89		
133	50.533	1579.72	1572.56	1568.15	1558.77		
134	50.671	1579.59	1572.44	1568.03	1558.64		
135	50.810	1579.45	1572.31	1567.91	1558.52		
136	50.951	1579.32	1572.18	1567.79	1558.39		
137	51.093	1579.18	1572.05	1567.67	1558.26		
138	51.236	1579.04	1571.92	1567.54	1558.13		
139	51.381	1578.89	1571.78	1567.41	1557.99		
140	51.527	1578.74	1571.64	1567.28	1557.85		
141	51.675	1578.58	1571.49	1567.14	1557.70		
142	51.825	1578.42	1571.35	1566.99	1557.55		
143	51.975	1578.25	1571.19	1566.85	1557.39		
144	52.128	1578.10	1571.05	1566.70	1557.24		
145	52.281	1577.95	1570.92	1566.57	1557.09		
146	52.437	1577.78	1570.78	1566.42	1556.94		
147	52.594	1577.61	1570.63	1566.28	1556.79		
148	52.752	1577.46	1570.50	1566.13	1556.63		
149	52.912	1577.34	1570.39	1566.01	1556.49		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
150	53.074	1577.20	1570.29	1565.89	1556.37		
151	53.237	1577.06	1570.18	1565.77	1556.24		
152	53.402	1576.91	1570.06	1565.64	1556.10		
153	53.569	1576.79	1569.96	1565.52	1555.97		
154	53.737	1576.68	1569.88	1565.42	1555.86		
155	53.907	1576.57	1569.79	1565.32	1555.76		
156	54.078	1576.45	1569.70	1565.22	1555.65		
157	54.252	1576.32	1569.61	1565.11	1555.53		
158	54.427	1576.23	1569.53	1565.01	1555.43		
159	54.604	1576.16	1569.47	1564.94	1555.34		
160	54.782	1576.08	1569.41	1564.88	1555.27		
161	54.963	1575.99	1569.35	1564.81	1555.20		
162	55.145	1575.91	1569.28	1564.73	1555.12		
163	55.329	1575.85	1569.23	1564.67	1555.05		
164	55.515	1575.82	1569.20	1564.63	1555.00		
165	55.702	1575.78	1569.17	1564.60	1554.97		
166	55.892	1575.74	1569.14	1564.57	1554.93		
167	56.083	1575.70	1569.11	1564.54	1554.90		
168	56.277	1575.67	1569.09	1564.50	1554.87		
169	56.472	1575.66	1569.07	1564.48	1554.84		
170	56.669	1575.64	1569.06	1564.47	1554.82		
171	56.868	1575.63	1569.05	1564.46	1554.81		
172	57.070	1575.61	1569.04	1564.45	1554.80		
173	57.273	1575.60	1569.03	1564.43	1554.79		
174	57.478	1575.59	1569.02	1564.42	1554.78		
175	57.685	1575.59	1569.02	1564.42	1554.77		
176	57.895	1575.58	1569.01	1564.41	1554.76		
177	58.106	1575.58	1569.01	1564.41	1554.76		
178	58.320	1575.57	1569.01	1564.41	1554.76		
179	58.536	1575.57	1569.00	1564.40	1554.75		
180	58.754	1575.56	1569.00	1564.40	1554.75		
181	58.974	1575.56	1569.00	1564.40	1554.75		
182	59.196	1575.56	1569.00	1564.40	1554.74		
183	59.420	1575.56	1569.00	1564.40	1554.74		
184	59.647	1575.56	1569.00	1564.40	1554.74		
185	59.876	1575.56	1569.00	1564.39	1554.74		
186	60.108	1575.56	1569.00	1564.39	1554.74		
187	60.341	1575.56	1569.00	1564.39	1554.74		
188	60.577	1575.56	1569.00	1564.39	1554.74		
189	60.815	1575.56	1568.99	1564.39	1554.74		
190	61.056	1575.56	1568.99	1564.39	1554.74		
191	61.299	1575.56	1568.99	1564.39	1554.74		
192	61.545	1575.56	1568.99	1564.39	1554.74		
193	61.793	1575.56	1568.99	1564.39	1554.74		
194	62.043	1575.56	1568.99	1564.39	1554.74		
195	62.296	1575.56	1568.99	1564.39	1554.74		
196	62.552	1575.56	1568.99	1564.39	1554.74		
197	62.810	1575.56	1568.99	1564.39	1554.74		
198	63.070	1575.56	1568.99	1564.39	1554.74		
199	63.334	1575.56	1568.99	1564.39	1554.74		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
200	63.599	1575.56	1568.99	1564.39	1554.74		
201	63.868	1575.56	1568.99	1564.39	1554.74		
202	64.139	1575.56	1568.99	1564.39	1554.74		
203	64.413	1575.56	1568.99	1564.39	1554.74		
204	64.690	1575.56	1568.99	1564.39	1554.74		
205	64.969	1575.56	1568.99	1564.39	1554.74		
206	65.251	1575.56	1568.99	1564.39	1554.74		
207	65.537	1575.56	1568.99	1564.39	1554.74		
208	65.824	1575.56	1568.99	1564.39	1554.74		
209	66.115	1575.56	1568.99	1564.39	1554.74		
210	66.409	1575.56	1568.99	1564.39	1554.74		
211	66.706	1575.56	1568.99	1564.39	1554.74		
212	67.005	1575.56	1568.99	1564.39	1554.74		
213	67.308	1575.56	1568.99	1564.39	1554.74		
214	67.613	1575.56	1568.99	1564.39	1554.74		
215	67.922	1575.56	1568.99	1564.39	1554.74		
216	68.234	1575.56	1568.99	1564.39	1554.74		
217	68.549	1575.56	1568.99	1564.39	1554.74		
218	68.867	1575.56	1568.99	1564.39	1554.74		
219	69.188	1575.55	1568.99	1564.39	1554.74		
220	69.512	1575.51	1568.97	1564.37	1554.72		
221	69.840	1575.47	1568.94	1564.34	1554.68		
222	70.171	1575.44	1568.91	1564.30	1554.65		
223	70.505	1575.39	1568.88	1564.27	1554.61		
224	70.843	1575.35	1568.85	1564.23	1554.57		
225	71.184	1575.31	1568.81	1564.20	1554.54		
226	71.528	1575.26	1568.78	1564.16	1554.50		
227	71.876	1575.18	1568.73	1564.11	1554.44		
228	72.227	1575.09	1568.66	1564.03	1554.37		
229	72.582	1575.00	1568.59	1563.96	1554.28		
230	72.940	1574.90	1568.51	1563.88	1554.20		
231	73.302	1574.80	1568.44	1563.79	1554.11		
232	73.668	1574.69	1568.35	1563.70	1554.01		
233	74.037	1574.58	1568.27	1563.61	1553.92		
234	74.410	1574.51	1568.21	1563.54	1553.83		
235	74.787	1574.50	1568.19	1563.51	1553.80		
236	75.167	1574.49	1568.19	1563.51	1553.79		
237	75.551	1574.48	1568.18	1563.50	1553.78		
238	75.939	1574.47	1568.17	1563.49	1553.77		
239	76.331	1574.46	1568.16	1563.48	1553.76		
240	76.727	1574.45	1568.16	1563.47	1553.75		
241	77.127	1574.44	1568.15	1563.46	1553.74		
242	77.531	1574.43	1568.14	1563.45	1553.73		
243	77.939	1574.41	1568.13	1563.44	1553.72		
244	78.351	1574.40	1568.12	1563.43	1553.71		
245	78.767	1574.39	1568.11	1563.42	1553.70		
246	79.187	1574.38	1568.10	1563.41	1553.69		

COMPUTED DISCHARGES AT REQUESTED
STATIONS WHERE HYDROGRAPHS ARE PLOTTED :

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs E3)	Station 2 Discharge QC(K,2) (cfs E3)	Station 3 Discharge QC(K,3) (cfs E3)	Station 4 Discharge QC(K,4) (cfs E3)	Station 5 Discharge QC(K,5) (cfs E3)	Station 6 Discharge QC(K,6) (cfs E3)
1	.000	2.00	2.00	2.00	2.00		
2	2.100	2.00	2.00	2.00	2.00		
3	4.200	2.00	2.00	2.00	2.00		
4	6.300	2.00	2.00	2.00	2.00		
5	8.400	2.00	2.00	2.00	2.00		
6	10.500	2.00	2.00	2.00	2.00		
7	12.600	2.00	2.00	2.00	2.00		
8	14.700	2.00	2.00	2.00	2.00		
9	16.800	2.00	2.00	2.00	2.00		
10	18.900	2.00	2.00	2.00	2.00		
11	21.000	2.00	2.00	2.00	2.00		
12	23.100	2.00	2.00	2.00	2.00		
13	25.200	2.00	2.00	2.00	2.00		
14	27.300	2.00	2.00	2.00	2.00		
15	29.400	2.00	2.00	2.00	2.00		
16	31.500	2.00	2.00	2.00	2.00		
17	33.600	2.00	2.00	2.00	2.00		
18	35.700	2.00	2.00	2.00	2.00		
19	37.800	2.00	2.00	2.00	2.00		
20	39.900	2.00	2.00	2.00	2.00		
21	39.983	2.16	2.05	2.01	2.01		
22	40.066	2.33	2.19	2.07	2.03		
23	40.149	2.49	2.37	2.19	2.10		
24	40.232	2.65	2.53	2.36	2.24		
25	40.315	2.82	2.70	2.53	2.41		
26	40.398	2.98	2.86	2.69	2.58		
27	40.481	3.14	3.03	2.86	2.75		
28	40.564	3.31	3.19	3.03	2.92		
29	40.647	3.47	3.36	3.20	3.09		
30	40.730	3.63	3.52	3.37	3.26		
31	40.813	3.80	3.69	3.53	3.43		
32	40.896	3.96	3.85	3.70	3.59		
33	40.979	4.12	4.02	3.87	3.76		
34	41.062	4.29	4.18	4.03	3.93		
35	41.145	4.45	4.35	4.20	4.10		
36	41.228	4.61	4.51	4.37	4.27		
37	41.311	4.78	4.67	4.53	4.43		
38	41.394	4.94	4.84	4.70	4.60		
39	41.477	5.10	5.00	4.86	4.77		
40	41.560	5.27	5.17	5.03	4.93		
41	41.643	5.43	5.33	5.19	5.10		
42	41.726	5.59	5.49	5.36	5.27		
43	41.809	5.76	5.66	5.53	5.43		
44	41.892	5.92	5.82	5.69	5.60		
45	41.975	6.08	5.99	5.86	5.76		
46	42.058	7.83	6.84	6.25	6.03		
47	42.141	12.50	10.11	7.92	6.98		
48	42.224	20.50	17.26	12.80	10.22		
49	42.307	31.60	27.67	21.98	17.70		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs E3)	Station 2 Discharge QC(K,2) (cfs E3)	Station 3 Discharge QC(K,3) (cfs E3)	Station 4 Discharge QC(K,4) (cfs E3)	Station 5 Discharge QC(K,5) (cfs E3)	Station 6 Discharge QC(K,6) (cfs E3)
50	42.390	45.32	41.02	34.90	29.69		
51	42.473	61.35	56.92	50.95	45.13		
52	42.556	79.84	75.32	69.50	63.39		
53	42.639	100.84	96.26	90.37	84.20		
54	42.722	124.30	119.71	113.73	107.45		
55	42.805	150.12	145.53	139.47	133.06		
56	42.888	178.48	173.81	167.67	161.03		
57	42.971	256.09	242.48	226.99	211.99		
58	43.054	274.36	275.99	273.12	264.42		
59	43.137	292.66	288.53	286.46	284.71		
60	43.220	310.86	309.46	305.72	300.18		
61	43.303	329.79	327.06	324.71	320.47		
62	43.386	349.01	346.95	343.73	339.28		
63	43.469	353.12	353.23	353.19	351.65		
64	43.552	352.19	352.25	352.38	352.85		
65	43.635	352.58	352.50	352.42	352.07		
66	43.718	347.18	348.07	348.95	349.88		
67	43.801	339.39	340.29	341.47	343.14		
68	43.884	331.67	332.59	333.70	335.32		
69	43.967	323.99	324.91	326.07	327.73		
70	44.050	316.38	317.30	318.46	320.16		
71	44.133	308.84	309.76	310.93	312.66		
72	44.216	301.36	302.29	303.46	305.23		
73	44.299	293.95	294.88	296.06	297.86		
74	44.382	286.60	287.53	288.72	290.57		
75	44.465	279.30	280.24	281.43	283.33		
76	44.548	272.05	272.99	274.20	276.16		
77	44.631	264.85	265.80	267.02	269.05		
78	44.714	257.72	258.67	259.89	261.54		
79	44.797	250.66	251.61	252.85	254.48		
80	44.880	243.67	244.62	245.86	247.44		
81	44.963	236.74	237.70	238.94	240.39		
82	45.046	229.87	230.83	232.08	233.57		
83	45.129	223.05	224.01	225.27	226.77		
84	45.213	216.20	217.17	218.45	219.90		
85	45.298	209.31	210.30	211.59	213.05		
86	45.383	202.39	203.38	204.69	206.16		
87	45.469	195.44	196.45	197.76	199.20		
88	45.557	188.52	189.53	190.85	192.30		
89	45.645	181.63	182.64	183.96	185.39		
90	45.734	174.76	175.77	177.09	178.51		
91	45.824	167.90	168.91	170.24	171.66		
92	45.914	161.04	162.06	163.38	164.81		
93	46.006	154.17	155.20	156.54	157.97		
94	46.099	147.34	148.38	149.71	151.14		
95	46.192	140.63	141.65	142.98	144.39		
96	46.287	134.00	135.02	136.34	137.74		
97	46.382	127.42	128.45	129.77	131.17		
98	46.478	120.89	121.92	123.25	124.65		
99	46.576	114.74	115.71	116.98	118.31		

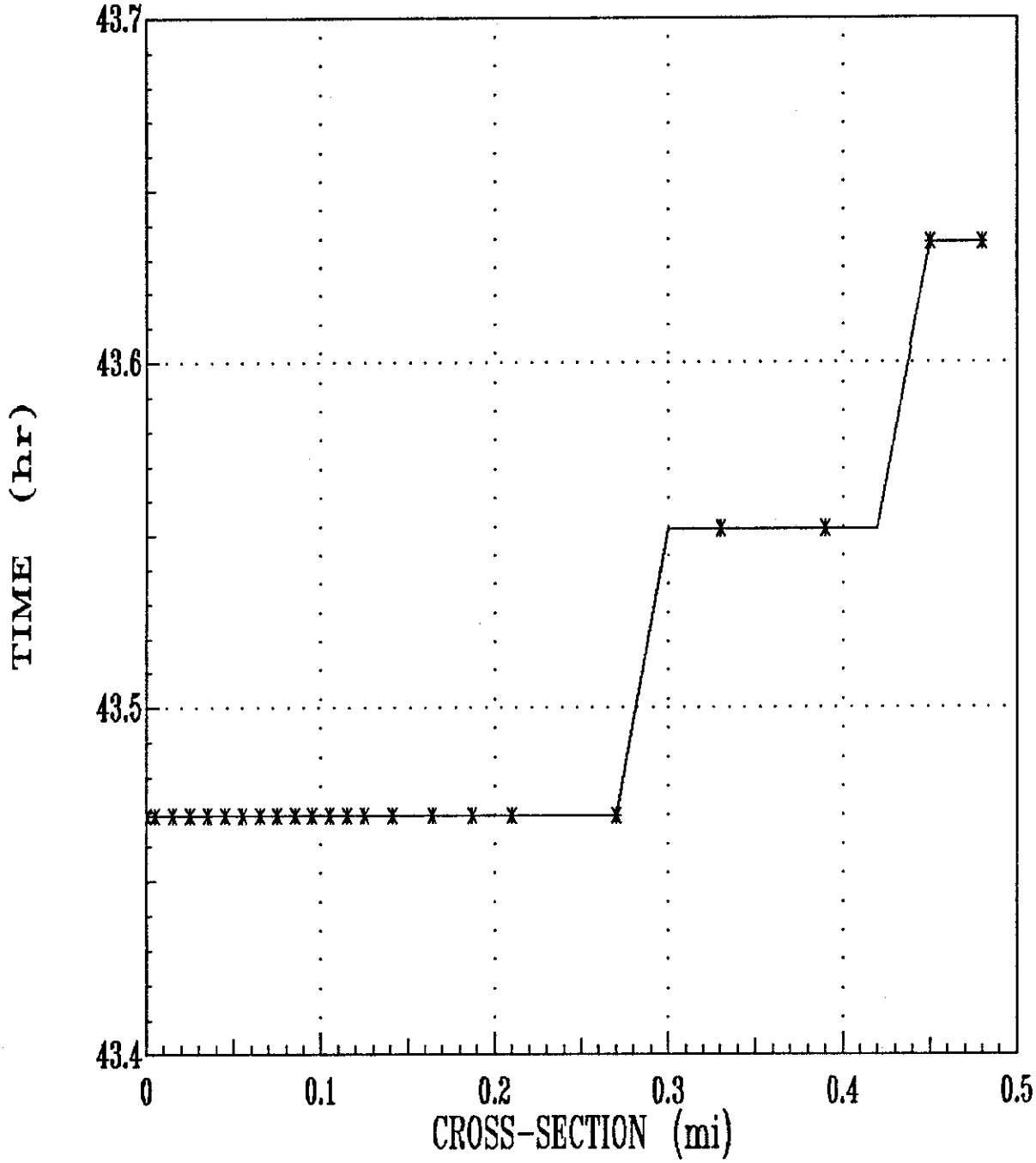
Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs E3)	Station 2 Discharge QC(K,2) (cfs E3)	Station 3 Discharge QC(K,3) (cfs E3)	Station 4 Discharge QC(K,4) (cfs E3)	Station 5 Discharge QC(K,5) (cfs E3)	Station 6 Discharge QC(K,6) (cfs E3)
100	46.674	108.86	109.82	111.03	112.31		
101	46.773	103.36	104.26	105.41	106.63		
102	46.874	98.34	99.17	100.23	101.35		
103	46.975	93.47	94.30	95.34	96.41		
104	47.077	89.16	89.88	90.81	91.81		
105	47.180	84.89	85.65	86.57	87.51		
106	47.285	81.16	81.79	82.62	83.49		
107	47.390	77.45	78.13	78.94	79.77		
108	47.497	74.17	74.74	75.48	76.27		
109	47.604	70.98	71.57	72.27	73.00		
110	47.713	68.03	68.56	69.24	69.94		
111	47.822	65.31	65.81	66.43	67.07		
112	47.933	62.59	63.10	63.73	64.36		
113	48.045	60.29	60.70	61.24	61.81		
114	48.158	57.96	58.41	58.96	59.49		
115	48.272	55.78	56.18	56.71	57.25		
116	48.387	53.80	54.17	54.64	55.12		
117	48.504	51.80	52.19	52.67	53.14		
118	48.621	49.98	50.32	50.78	51.23		
119	48.740	48.28	48.61	49.04	49.44		
120	48.860	46.56	46.90	47.34	47.74		
121	48.981	44.99	45.29	45.69	46.08		
122	49.104	43.52	43.80	44.18	44.53		
123	49.227	42.03	42.32	42.71	43.05		
124	49.352	40.61	40.88	41.25	41.59		
125	49.478	39.31	39.56	39.90	40.21		
126	49.605	38.01	38.27	38.61	38.91		
127	49.734	36.69	36.96	37.30	37.61		
128	49.864	35.52	35.74	36.05	36.34		
129	49.995	34.34	34.58	34.89	35.16		
130	50.127	33.15	33.39	33.72	33.99		
131	50.261	31.99	32.22	32.54	32.81		
132	50.396	30.88	31.09	31.40	31.66		
133	50.533	29.76	29.98	30.29	30.54		
134	50.671	28.62	28.85	29.16	29.42		
135	50.810	27.51	27.73	28.04	28.30		
136	50.951	26.41	26.63	26.94	27.19		
137	51.093	25.31	25.53	25.84	26.10		
138	51.236	24.19	24.42	24.74	24.99		
139	51.381	23.08	23.30	23.63	23.88		
140	51.527	21.98	22.20	22.52	22.78		
141	51.675	20.87	21.10	21.42	21.68		
142	51.825	19.75	19.98	20.31	20.57		
143	51.975	18.63	18.86	19.20	19.45		
144	52.128	17.68	17.87	18.16	18.39		
145	52.281	16.73	16.93	17.21	17.43		
146	52.437	15.76	15.96	16.26	16.48		
147	52.594	14.78	14.98	15.29	15.52		
148	52.752	13.96	14.12	14.39	14.59		
149	52.912	13.28	13.41	13.63	13.80		

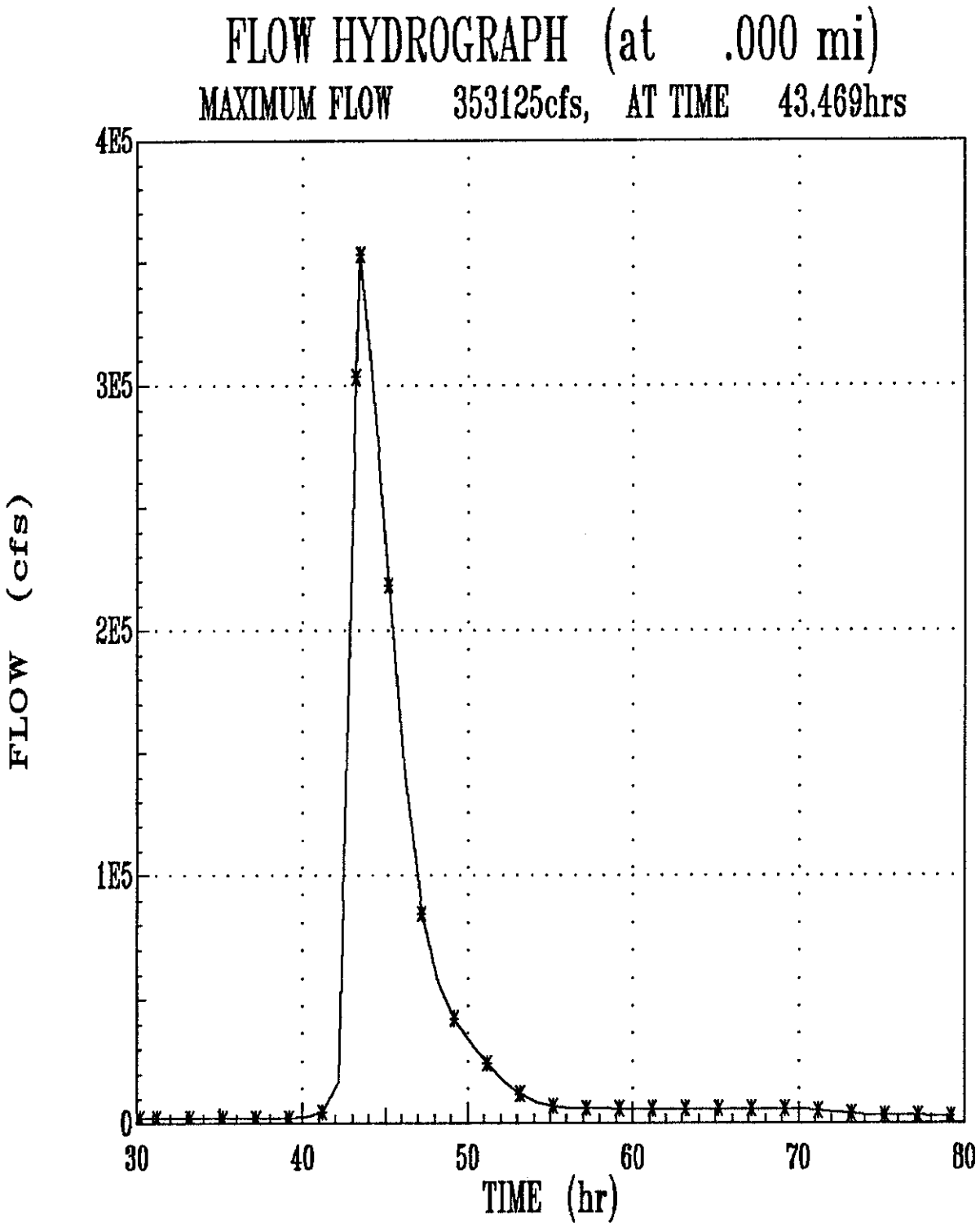
Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs E3)	Station 2 Discharge QC(K,2) (cfs E3)	Station 3 Discharge QC(K,3) (cfs E3)	Station 4 Discharge QC(K,4) (cfs E3)	Station 5 Discharge QC(K,5) (cfs E3)	Station 6 Discharge QC(K,6) (cfs E3)
150	53.074	12.58	12.73	12.95	13.11		
151	53.237	11.88	12.03	12.26	12.42		
152	53.402	11.18	11.33	11.56	11.72		
153	53.569	10.64	10.74	10.93	11.07		
154	53.737	10.15	10.26	10.41	10.53		
155	53.907	9.65	9.76	9.93	10.04		
156	54.078	9.15	9.26	9.43	9.55		
157	54.252	8.64	8.76	8.92	9.04		
158	54.427	8.31	8.37	8.49	8.59		
159	54.604	8.02	8.09	8.18	8.25		
160	54.782	7.72	7.79	7.89	7.96		
161	54.963	7.43	7.50	7.60	7.67		
162	55.145	7.13	7.20	7.30	7.37		
163	55.329	6.94	6.98	7.05	7.11		
164	55.515	6.82	6.85	6.88	6.92		
165	55.702	6.70	6.73	6.77	6.80		
166	55.892	6.58	6.61	6.65	6.68		
167	56.083	6.46	6.49	6.53	6.56		
168	56.277	6.35	6.37	6.41	6.44		
169	56.472	6.31	6.31	6.33	6.35		
170	56.669	6.26	6.27	6.29	6.29		
171	56.868	6.22	6.23	6.25	6.26		
172	57.070	6.18	6.19	6.20	6.21		
173	57.273	6.13	6.14	6.16	6.17		
174	57.478	6.10	6.11	6.12	6.13		
175	57.685	6.09	6.09	6.10	6.10		
176	57.895	6.08	6.08	6.08	6.09		
177	58.106	6.06	6.06	6.07	6.07		
178	58.320	6.05	6.05	6.06	6.06		
179	58.536	6.03	6.04	6.04	6.04		
180	58.754	6.03	6.03	6.03	6.03		
181	58.974	6.02	6.02	6.02	6.03		
182	59.196	6.02	6.02	6.02	6.02		
183	59.420	6.02	6.02	6.02	6.02		
184	59.647	6.01	6.01	6.01	6.01		
185	59.876	6.01	6.01	6.01	6.01		
186	60.108	6.01	6.01	6.01	6.01		
187	60.341	6.01	6.01	6.01	6.01		
188	60.577	6.00	6.00	6.00	6.00		
189	60.815	6.00	6.00	6.00	6.00		
190	61.056	6.00	6.00	6.00	6.00		
191	61.299	6.00	6.00	6.00	6.00		
192	61.545	6.00	6.00	6.00	6.00		
193	61.793	6.00	6.00	6.00	6.00		
194	62.043	6.00	6.00	6.00	6.00		
195	62.296	6.00	6.00	6.00	6.00		
196	62.552	6.00	6.00	6.00	6.00		
197	62.810	6.00	6.00	6.00	6.00		
198	63.070	6.00	6.00	6.00	6.00		
199	63.334	6.00	6.00	6.00	6.00		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs'E3)	Station 2 Discharge QC(K,2) (cfs'E3)	Station 3 Discharge QC(K,3) (cfs'E3)	Station 4 Discharge QC(K,4) (cfs'E3)	Station 5 Discharge QC(K,5) (cfs'E3)	Station 6 Discharge QC(K,6) (cfs'E3)
200	63.599	6.00	6.00	6.00	6.00		
201	63.868	6.00	6.00	6.00	6.00		
202	64.139	6.00	6.00	6.00	6.00		
203	64.413	6.00	6.00	6.00	6.00		
204	64.690	6.00	6.00	6.00	6.00		
205	64.969	6.00	6.00	6.00	6.00		
206	65.251	6.00	6.00	6.00	6.00		
207	65.537	6.00	6.00	6.00	6.00		
208	65.824	6.00	6.00	6.00	6.00		
209	66.115	6.00	6.00	6.00	6.00		
210	66.409	6.00	6.00	6.00	6.00		
211	66.706	6.00	6.00	6.00	6.00		
212	67.005	6.00	6.00	6.00	6.00		
213	67.308	6.00	6.00	6.00	6.00		
214	67.613	6.00	6.00	6.00	6.00		
215	67.922	6.00	6.00	6.00	6.00		
216	68.234	6.00	6.00	6.00	6.00		
217	68.549	6.00	6.00	6.00	6.00		
218	68.867	6.00	6.00	6.00	6.00		
219	69.188	5.99	5.99	5.99	5.99		
220	69.512	5.87	5.90	5.92	5.94		
221	69.840	5.76	5.77	5.80	5.82		
222	70.171	5.64	5.66	5.68	5.70		
223	70.505	5.53	5.54	5.57	5.58		
224	70.843	5.41	5.43	5.45	5.47		
225	71.184	5.29	5.31	5.33	5.35		
226	71.528	5.17	5.19	5.21	5.23		
227	71.876	4.95	4.99	5.03	5.06		
228	72.227	4.71	4.74	4.79	4.83		
229	72.582	4.47	4.51	4.55	4.59		
230	72.940	4.23	4.27	4.32	4.35		
231	73.302	3.99	4.02	4.07	4.11		
232	73.668	3.74	3.78	3.83	3.86		
233	74.037	3.49	3.53	3.58	3.62		
234	74.410	3.35	3.36	3.39	3.41		
235	74.787	3.33	3.32	3.32	3.33		
236	75.167	3.30	3.31	3.31	3.31		
237	75.551	3.28	3.28	3.29	3.29		
238	75.939	3.26	3.26	3.27	3.27		
239	76.331	3.24	3.24	3.25	3.25		
240	76.727	3.21	3.22	3.22	3.22		
241	77.127	3.19	3.19	3.20	3.20		
242	77.531	3.17	3.17	3.18	3.18		
243	77.939	3.14	3.15	3.15	3.16		
244	78.351	3.12	3.12	3.13	3.13		
245	78.767	3.10	3.10	3.11	3.11		
246	79.187	3.07	3.08	3.08	3.08		

END OF OUTPUT

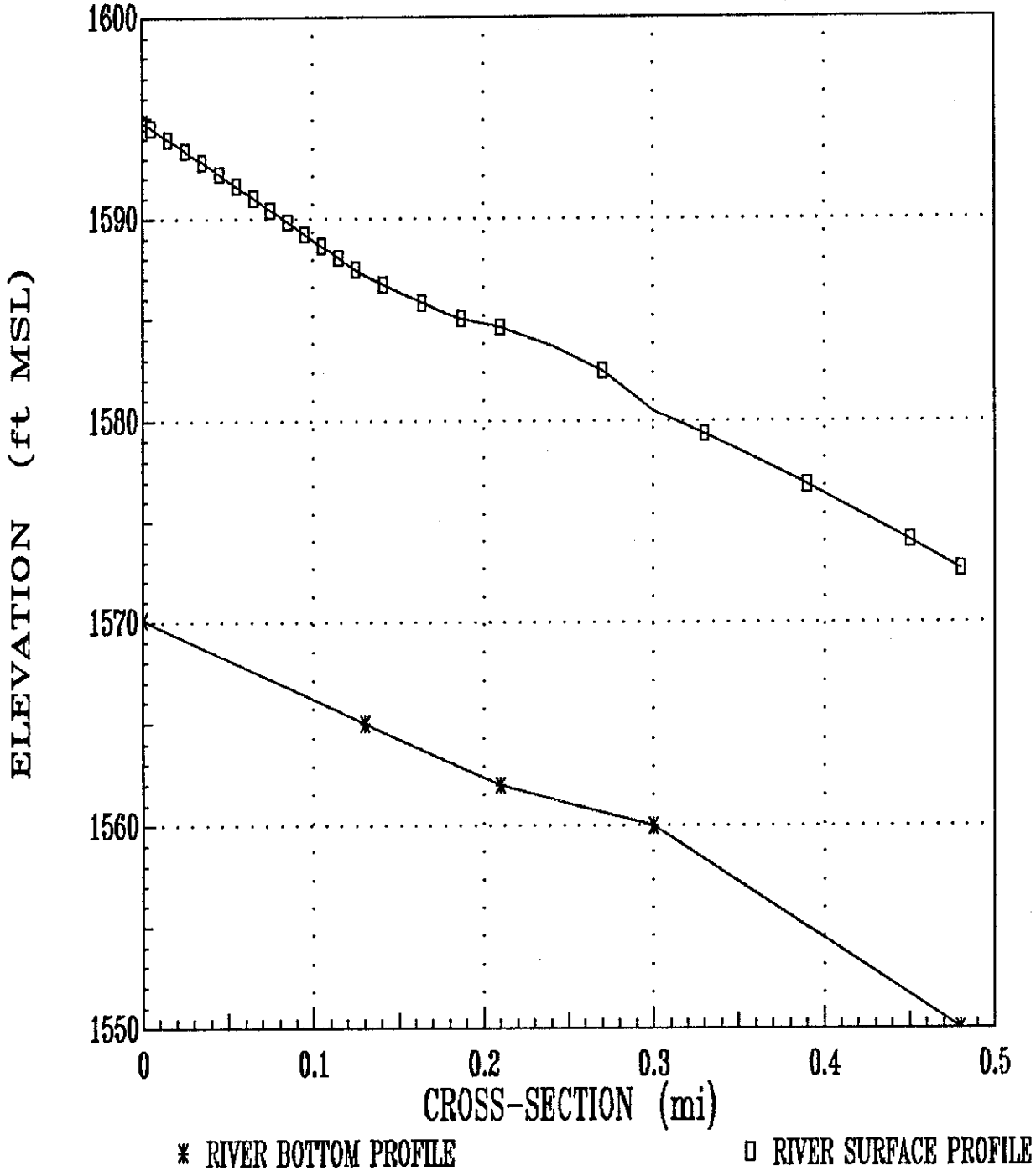
TIME TO PEAK PROFILE




FLOW HYDROGRAPH (at .000 mi)
MAXIMUM FLOW 353125cfs, AT TIME 43.469hrs
4E5
3E5
2E5
1E5
0
FLOW (cfs)
30
40
50
60
70
80
TIME (hr)

FLOOD CREST SUMMARY

RIVER BOTTOM & PEAK WATER SURFACE PROFILE



Run #2
(From Scatter Wash Section #4W Through #8W)

B O S S D A M B R K (tm)

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Version : 2.00
Serial Number : 0010361.200

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PROGRAM ORIGIN :

Boss DamBrk (tm) is an enhanced version of Professor D. L. Fread's 1988 NWS DAMBRK program.

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PROJECT DESCRIPTION :

PROJECT TITLE : 72-HR Q=46,600 FLOW WEST
PROJECT NUMBER : 8851485F
DESCRIPTION : CAVE BUTTES DAM DAMBREAK ANALYSIS
ENGINEER : SFR
DATE OF RUN : 2/18/1990
TIME OF RUN : 9:39 am

INPUT DATA SUMMARY :

INPUT CONTROL PARAMETERS :

Number of Dynamic Routing Reaches (KKN)	9	
Type of Reservoir Routing (KUI)	0	(storage routing)
Number of multiple dams/bridges (MULDAM)	0	
No. of Reservoir Inflow Hydrograph Points (ITEH)	12	
No. of Informational Cross-Sections (NPRT)	0	
Flood-Plain Routing (KFLP)	0	(no)

Hydrograph Time Intervals (DHF, hr)	.00
Routing Period (TEH, hr)	80.00
Breach Development Exponent (BREX)	1.00
Mud/Debris Flow Parameter (MUD)	0
Dry Bed Routing Parameter (IWF)	0
Hydraulic Radius Computation Parameter (KPRES)	1

Time Elapsed TI(K) (hr)	Upstream Inflow QI(K) (cfs)
.00	2000.0
39.90	2000.0
42.00	2000.0
42.50	2000.0
43.80	46600.0
45.00	15000.0
47.00	2200.0
48.90	2000.0
51.30	2000.0
53.40	2000.0
55.20	2000.0
80.00	2000.0

SUMMARY OF PROGRAM CONTROL PARAMETERS :

Number of Cross-Sections Entered (NS)	2	
Number of Top Widths Entered (NCS)	8	
Number of Cross-Sectional Hydrographs to Plot (NTT)	1	
Cross-Sectional Smoothing Parameter (KSA)	0	
Downstream Supercritical Parameter (KSUPC)	0	(subcritical)
Landslide Simulation (KSL)	0	(no)
Number of Lateral Inflow Hydrographs (LQ)	0	
Number of Points in Gate Control Curve (KCG)	0	

CROSS-SECTIONS WHERE HYDROGRAPH REQUESTED :
(maximum allowed = 6)

2

CHANNEL-VALLEY BOUNDARY CONDITIONS :

Max Discharge at Downstream End (QMAXD, cfs)	.0
Max Lateral Outflow due to Flood Wave (QLL, cfs/ft)	.0000
Initial Time-Step Size (DTHM, hr)	.0700
Time at which Dam Starts to Fail (TFI, hr)	.0000
Theta Weighting Factor (F1I)	.000
Stage Convergence Criterion (EPSY, ft)	.000
Initial Downstream Water Surface Elevation (YDN, ft MSL)	.00
Slope of Channel Downstream of Dam (SOM, ft/mi)	30.0000

CROSS-SECTION NUMBER : 1 SECTION 4W

Cross-Section Location (XS(I), mi) 1.260

Flooding Elevation (FSTG(I), ft MSL) 1538.000

Initial Water Surface Elevation (YD, ft MSL) .000

DOWNSTREAM REACH NUMBER : 1

Reach Contraction-Expansion Coefficient (FKC) .000

Minimum Distance Between Interpolated Cross-Sections (DXM, mi) .010

CROSS-SECTION and REACH DESCRIPTION :

Elevation HS(K,I) (ft MSL)	Channel Top Width BS(K,I) (ft)	Channel Manning n CM(K,I)	Storage Top Width BSS(K,I) (ft)	Left Top Width BSL(K,I) (ft)	Left Manning n CML(K,I)	Right Top Width BSR(K,I) (ft)	Right Manning n CMR(K,I)
1532.00	.0	.0700	.0	.0	.0000	.0	.0000
1540.00	2500.0	.0700	.0	.0	.0000	.0	.0000
1550.00	3050.0	.0700	.0	.0	.0000	.0	.0000
1560.00	3550.0	.0700	.0	.0	.0000	.0	.0000
1560.50	4000.0	.0700	.0	.0	.0000	.0	.0000
1570.00	4150.0	.0700	.0	.0	.0000	.0	.0000
1580.00	4300.0	.0700	.0	.0	.0000	.0	.0000
1600.00	4600.0	.0700	.0	.0	.0000	.0	.0000

CROSS-SECTION NUMBER : 2 SECTION 8W

Cross-Section Location (XS(I), mi)	2.000
Flooding Elevation (FSTG(I), ft MSL)	1503.000
Initial Water Surface Elevation (YD, ft MSL)	.000

CROSS-SECTION DESCRIPTION :

Elevation HS(K,I) (ft MSL)	Channel Top Width BS(K,I) (ft)	Storage Top Width BSS(K,I) (ft)	Left Top Width BSL(K,I) (ft)	Right Top Width BSR(K,I) (ft)
1497.00	.0	.0	.0	.0
1498.00	650.0	.0	.0	.0
1500.00	1800.0	.0	.0	.0
1504.00	2100.0	.0	.0	.0
1508.00	2400.0	.0	.0	.0
1512.00	2700.0	.0	.0	.0
1516.00	2950.0	.0	.0	.0
1520.00	3200.0	.0	.0	.0

DISTANCE BETWEEN INTERPOLATED CROSS-SECTIONS
(DXM) THAT WILL BE USED IN COMPUTATIONS :

Down Stream Reach Number I=1,NS1	Interp. Cross Section Distance DXM(I) (mi)
1	.0100

Total number of cross-sections (original+interpolated) 75

Maximum number of cross-sections allowed 300

OUTPUT DATA SUMMARY :

CROSS-SECTION and REACH SUMMARY :

Cross Section Number	Cross Section Location (mi)	Bottom Elevation (ft MSL)	Reach Number	Reach Length (mi)	Reach Slope (ft/mi)
1	1.260	1532.000			
2	2.000	1497.000	1	.740	47.297

SLOPE INFORMATION FOR CROSS-SECTION REACHES :

Reach Number Section I	Water Surface Elevation YO (ft MSL)	Hydraulic Depth DA (ft)	Reach Bottom Slope SO (ft/m)	Dynamic Slope DS (ft/m)	Total Slope SOT (ft/m)	Critical Slope SC (ft/m)	Manning n CMN
1	1514.50	1.64	47.30	.02	47.31	320.02	.070
1	1519.00	3.28	47.30	.02	47.32	254.00	.070
1	1525.00	8.36	47.30	.03	47.33	185.93	.070
1	1532.00	14.39	47.30	.03	47.33	155.11	.070
1	1534.25	14.41	47.30	.03	47.33	155.05	.070
1	1541.00	20.60	47.30	.04	47.34	137.63	.070
1	1548.00	26.85	47.30	.04	47.34	126.00	.070
1	1560.00	37.95	47.30	.05	47.35	112.28	.070

Number of Intermediate Cross-Sections (NN(NS)) 75

Number of Time Steps (NNU) 12

INITIAL CONDITIONS TABLE :

Cross Section Number I	Cross Section Location XI (mi)	Normal Flow Water Elevation YN (ft MSL)	Normal Flow Depth DEPN (ft)	Critical Flow Water Elevation YC (ft MSL)	Critical Flow Depth DEPC (ft)	Froude Indicator (0 = sub) (1 = sup) IFR	Iteration Count for Computing Nrml Dpth ITN
1	1.260	1534.38	2.38	1533.59	1.59	0	12
2	1.270	1533.90	2.38	1533.11	1.59	0	12
3	1.280	1533.43	2.37	1532.64	1.59	0	12
4	1.290	1532.95	2.37	1532.17	1.59	0	12
5	1.300	1532.49	2.38	1531.70	1.59	0	12
6	1.310	1532.01	2.37	1531.21	1.58	0	12
7	1.320	1531.53	2.36	1530.74	1.58	0	12
8	1.330	1531.06	2.37	1530.27	1.58	0	12
9	1.340	1530.58	2.37	1529.80	1.58	0	12
10	1.350	1530.10	2.36	1529.32	1.58	0	12
11	1.360	1529.64	2.37	1528.85	1.58	0	12
12	1.370	1529.16	2.36	1528.38	1.58	0	12
13	1.380	1528.69	2.36	1527.90	1.58	0	12
14	1.390	1528.21	2.35	1527.43	1.58	0	12
15	1.400	1527.72	2.35	1526.95	1.58	0	12
16	1.410	1527.26	2.35	1526.48	1.57	0	12
17	1.420	1526.79	2.35	1526.00	1.57	0	12
18	1.430	1526.30	2.34	1525.53	1.57	0	12
19	1.440	1525.83	2.35	1525.05	1.57	0	12
20	1.450	1525.35	2.34	1524.58	1.56	0	12
21	1.460	1524.88	2.34	1524.10	1.56	0	12
22	1.470	1524.41	2.34	1523.63	1.56	0	12
23	1.480	1523.92	2.33	1523.15	1.55	0	12
24	1.490	1523.45	2.33	1522.67	1.55	0	12
25	1.500	1522.98	2.33	1522.21	1.56	0	12
26	1.510	1522.50	2.33	1521.73	1.55	0	12
27	1.520	1522.03	2.33	1521.25	1.55	0	12
28	1.530	1521.55	2.32	1520.77	1.54	0	12
29	1.540	1521.07	2.31	1520.31	1.55	0	12
30	1.550	1520.59	2.31	1519.83	1.54	0	12
31	1.560	1520.11	2.30	1519.35	1.54	0	12
32	1.570	1519.65	2.31	1518.88	1.54	0	12
33	1.580	1519.17	2.31	1518.40	1.53	0	12
34	1.590	1518.69	2.30	1517.92	1.53	0	12
35	1.600	1518.21	2.29	1517.45	1.53	0	12
36	1.610	1517.73	2.29	1516.97	1.52	0	12
37	1.620	1517.25	2.28	1516.50	1.53	0	12
38	1.630	1516.78	2.28	1516.02	1.52	0	12
39	1.640	1516.30	2.27	1515.55	1.52	0	12
40	1.650	1515.83	2.28	1515.06	1.51	0	12
41	1.660	1515.35	2.27	1514.59	1.51	0	12
42	1.670	1514.87	2.27	1514.12	1.51	0	12
43	1.680	1514.39	2.25	1513.63	1.50	0	12
44	1.690	1513.92	2.25	1513.16	1.50	0	12
45	1.700	1513.43	2.24	1512.68	1.50	0	12
46	1.710	1512.95	2.23	1512.21	1.50	0	11
47	1.720	1512.48	2.24	1511.74	1.50	0	11
48	1.730	1511.99	2.22	1511.26	1.49	0	11
49	1.740	1511.52	2.23	1510.77	1.47	0	11

Cross Section Number I	Cross Section Location XI (mi)	Normal Flow Water Elevation YN (ft MSL)	Normal Flow Depth DEPN (ft)	Critical Flow Water Elevation YC (ft MSL)	Critical Flow Depth DEPC (ft)	Froude Indicator (0 = sub) (1 = sup) IFR	Iteration Count for Computing Nrml Dpth ITN
50	1.750	1511.03	2.21	1510.29	1.46	0	11
51	1.760	1510.56	2.21	1509.81	1.46	0	11
52	1.770	1510.07	2.19	1509.33	1.45	0	11
53	1.780	1509.60	2.19	1508.85	1.45	0	11
54	1.790	1509.11	2.17	1508.39	1.46	0	11
55	1.800	1508.63	2.17	1507.91	1.45	0	11
56	1.810	1508.15	2.17	1507.43	1.44	0	11
57	1.820	1507.66	2.15	1506.95	1.43	0	11
58	1.830	1507.18	2.14	1506.46	1.42	0	11
59	1.840	1506.70	2.13	1505.98	1.41	0	11
60	1.850	1506.22	2.13	1505.50	1.40	0	11
61	1.860	1505.74	2.12	1505.01	1.39	0	11
62	1.870	1505.24	2.09	1504.54	1.40	0	11
63	1.880	1504.75	2.08	1504.06	1.38	0	11
64	1.890	1504.27	2.07	1503.57	1.37	0	11
65	1.900	1503.78	2.05	1503.09	1.36	0	11
66	1.910	1503.28	2.02	1502.60	1.34	0	11
67	1.920	1502.79	2.01	1502.12	1.34	0	11
68	1.930	1502.30	1.99	1501.64	1.32	0	11
69	1.940	1501.81	1.97	1501.15	1.31	0	11
70	1.950	1501.32	1.95	1500.66	1.29	0	11
71	1.960	1500.82	1.93	1500.16	1.27	0	11
72	1.970	1500.32	1.90	1499.67	1.25	0	11
73	1.980	1499.82	1.87	1499.18	1.24	0	11
74	1.990	1499.31	1.84	1498.68	1.20	0	11
75	2.000	1498.81	1.81	1498.18	1.18	0	11

SUMMARY OF INITIAL DOWNSTREAM BOUNDARY CONDITIONS :

Cross-section Number at Downstream End of Model (IN)	75
Initial Water Surface Elev. at Downstream End (YNN, ft MSL)	1498.814
Initial Flow Depth at Downstream End (DEP, ft)	1.814

COMPUTED STEP BACKWATER TABLE :

Cross Section Number I	Cross Section Location X (mi)	Flow QIL (cfs)	Backwater Water Surface Elevation YIL (ft MSL)	Backwater Water Depth DEP (ft)	Iteration Count for Computing Backwater ITB
74	1.990	2000.0	1499.296	1.823	5
73	1.980	2000.0	1499.799	1.853	5
72	1.970	2000.0	1500.301	1.882	5
71	1.960	2000.0	1500.800	1.908	5
70	1.950	2000.0	1501.297	1.932	5
69	1.940	2000.0	1501.793	1.955	5
68	1.930	2000.0	1502.287	1.976	5
67	1.920	2000.0	1502.780	1.996	5
66	1.910	2000.0	1503.273	2.016	5
65	1.900	2000.0	1503.765	2.035	5
64	1.890	2000.0	1504.257	2.055	5
63	1.880	2000.0	1504.748	2.073	5
62	1.870	2000.0	1505.236	2.088	5
61	1.860	2000.0	1505.723	2.101	5
60	1.850	2000.0	1506.208	2.114	5
59	1.840	2000.0	1506.693	2.126	5
58	1.830	2000.0	1507.178	2.137	5
57	1.820	2000.0	1507.661	2.148	5
56	1.810	2000.0	1508.144	2.158	5
55	1.800	2000.0	1508.627	2.167	5
54	1.790	2000.0	1509.109	2.177	5
53	1.780	2000.0	1509.591	2.185	5
52	1.770	2000.0	1510.072	2.193	5
51	1.760	2000.0	1510.553	2.201	5

Cross Section Number I	Cross Section Location X (mi)	Flow QIL (cfs)	Backwater Water Surface Elevation YIL (ft MSL)	Backwater Water Depth DEP (ft)	Iteration Count for Computing Backwater ITB
50	1.750	2000.0	1511.033	2.209	5
49	1.740	2000.0	1511.513	2.216	5
48	1.730	2000.0	1511.993	2.223	5
47	1.720	2000.0	1512.473	2.229	5
46	1.710	2000.0	1512.952	2.236	5
45	1.700	2000.0	1513.431	2.242	5
44	1.690	2000.0	1513.910	2.248	5
43	1.680	2000.0	1514.388	2.253	5
42	1.670	2000.0	1514.867	2.259	5
41	1.660	2000.0	1515.345	2.264	5
40	1.650	2000.0	1515.823	2.269	5
39	1.640	2000.0	1516.301	2.273	5
38	1.630	2000.0	1516.778	2.278	5
37	1.620	2000.0	1517.256	2.283	5
36	1.610	2000.0	1517.733	2.287	5
35	1.600	2000.0	1518.210	2.291	5
34	1.590	2000.0	1518.687	2.295	5
33	1.580	2000.0	1519.164	2.299	5
32	1.570	2000.0	1519.641	2.303	5
31	1.560	2000.0	1520.117	2.307	5
30	1.550	2000.0	1520.594	2.310	5
29	1.540	2000.0	1521.070	2.313	5
28	1.530	2000.0	1521.547	2.317	5
27	1.520	2000.0	1522.023	2.320	5
26	1.510	2000.0	1522.499	2.323	5
25	1.500	2000.0	1522.975	2.326	5
24	1.490	2000.0	1523.451	2.329	5
23	1.480	2000.0	1523.927	2.332	5
22	1.470	2000.0	1524.402	2.335	5
21	1.460	2000.0	1524.878	2.338	5
20	1.450	2000.0	1525.354	2.340	5
19	1.440	2000.0	1525.829	2.343	5
18	1.430	2000.0	1526.305	2.345	5
17	1.420	2000.0	1526.780	2.348	5
16	1.410	2000.0	1527.255	2.350	5
15	1.400	2000.0	1527.731	2.352	5
14	1.390	2000.0	1528.206	2.355	5
13	1.380	2000.0	1528.681	2.357	5
12	1.370	2000.0	1529.156	2.359	5
11	1.360	2000.0	1529.631	2.361	5
10	1.350	2000.0	1530.107	2.363	5
9	1.340	2000.0	1530.582	2.365	5
8	1.330	2000.0	1531.056	2.367	5
7	1.320	2000.0	1531.531	2.369	5
6	1.310	2000.0	1532.006	2.371	5
5	1.300	2000.0	1532.481	2.373	5
4	1.290	2000.0	1532.956	2.375	5
3	1.280	2000.0	1533.430	2.376	5
2	1.270	2000.0	1533.905	2.378	5
1	1.260	2000.0	1534.380	2.380	5

Interp. Cross Section I	Water Elevation YI(I) (ft MSL)	Initial Flow QDI(I) (cfs)
1	1534.38	2000.0
2	1533.91	2000.0
3	1533.43	2000.0
4	1532.96	2000.0
5	1532.48	2000.0
6	1532.01	2000.0
7	1531.53	2000.0
8	1531.06	2000.0
9	1530.58	2000.0
10	1530.11	2000.0
11	1529.63	2000.0
12	1529.16	2000.0
13	1528.68	2000.0
14	1528.21	2000.0
15	1527.73	2000.0
16	1527.26	2000.0
17	1526.78	2000.0
18	1526.30	2000.0
19	1525.83	2000.0
20	1525.35	2000.0
21	1524.88	2000.0
22	1524.40	2000.0
23	1523.93	2000.0
24	1523.45	2000.0
25	1522.97	2000.0
26	1522.50	2000.0
27	1522.02	2000.0
28	1521.55	2000.0
29	1521.07	2000.0
30	1520.59	2000.0
31	1520.12	2000.0
32	1519.64	2000.0
33	1519.16	2000.0
34	1518.69	2000.0
35	1518.21	2000.0
36	1517.73	2000.0
37	1517.26	2000.0
38	1516.78	2000.0
39	1516.30	2000.0
40	1515.82	2000.0
41	1515.34	2000.0
42	1514.87	2000.0
43	1514.39	2000.0
44	1513.91	2000.0
45	1513.43	2000.0
46	1512.95	2000.0
47	1512.47	2000.0
48	1511.99	2000.0
49	1511.51	2000.0

Interp. Cross Section I	Water Elevation YI(I) (ft MSL)	Initial Flow QDI(I) (cfs)
50	1511.03	2000.0
51	1510.55	2000.0
52	1510.07	2000.0
53	1509.59	2000.0
54	1509.11	2000.0
55	1508.63	2000.0
56	1508.14	2000.0
57	1507.66	2000.0
58	1507.18	2000.0
59	1506.69	2000.0
60	1506.21	2000.0
61	1505.72	2000.0
62	1505.24	2000.0
63	1504.75	2000.0
64	1504.26	2000.0
65	1503.77	2000.0
66	1503.27	2000.0
67	1502.78	2000.0
68	1502.29	2000.0
69	1501.79	2000.0
70	1501.30	2000.0
71	1500.80	2000.0
72	1500.30	2000.0
73	1499.80	2000.0
74	1499.30	2000.0
75	1498.81	2000.0

Normalized conservation of mass as percent of maximum flow in reach = -.00

ROUTING COMPLETED :

Number of Time Steps Used (KTIME)	1142
Maximum Number of Time Steps Allowed	1199
Total Time of Flood Routing (TT, hr)	80.0

FLOOD CREST SUMMARY :

Cross Section Location (mi)	Maximum Stage Elevation (ft MSL)	Maximum Flow (cfs)	Time To Maximum Stage (hr)	Maximum Flow Velocity (ft/sec)	Flood Elevation (ft MSL)	Time To Flood Elevation (hr)
1.260	1539.69	46077	43.820	4.98	1538.00	43.19
1.270	1539.21	46057	43.820	4.98	1537.53	43.19
1.280	1538.73	46037	43.820	4.99	1537.05	43.19
1.290	1538.24	46015	43.820	4.99	1536.58	43.19
1.300	1537.75	45993	43.820	5.01	1536.11	43.19
1.310	1537.25	45970	43.820	5.02	1535.64	43.19
1.320	1536.76	45944	43.820	5.04	1535.16	43.19
1.330	1536.27	45916	43.820	5.05	1534.69	43.19
1.340	1535.78	45888	43.820	5.06	1534.22	43.19
1.350	1535.28	45858	43.820	5.08	1533.74	43.19
1.360	1534.79	45826	43.820	5.09	1533.27	43.19
1.370	1534.30	45793	43.820	5.11	1532.80	43.19
1.380	1533.81	45759	43.820	5.12	1532.32	43.19
1.390	1533.32	45723	43.820	5.13	1531.85	43.26
1.400	1532.83	45687	43.820	5.15	1531.38	43.26
1.410	1532.35	45649	43.820	5.16	1530.91	43.26
1.420	1531.86	45610	43.820	5.17	1530.43	43.26
1.430	1531.37	45570	43.820	5.18	1529.96	43.26
1.440	1530.89	45529	43.820	5.19	1529.49	43.26
1.450	1530.40	45487	43.820	5.21	1529.01	43.26
1.460	1529.92	45445	43.890	5.22	1528.54	43.26
1.470	1529.44	45401	43.890	5.23	1528.07	43.26
1.480	1528.96	45369	43.890	5.24	1527.59	43.26
1.490	1528.48	45389	43.890	5.25	1527.12	43.26
1.500	1528.00	45408	43.890	5.26	1526.65	43.26
1.510	1527.52	45424	43.890	5.26	1526.18	43.33
1.520	1527.04	45438	43.890	5.27	1525.70	43.33
1.530	1526.56	45450	43.890	5.28	1525.23	43.33
1.540	1526.09	45460	43.890	5.29	1524.76	43.33
1.550	1525.61	45468	43.890	5.30	1524.28	43.33
1.560	1525.13	45474	43.890	5.31	1523.81	43.33
1.570	1524.66	45478	43.890	5.31	1523.34	43.33
1.580	1524.18	45480	43.890	5.32	1522.86	43.33
1.590	1523.70	45480	43.890	5.33	1522.39	43.33
1.600	1523.23	45478	43.890	5.33	1521.92	43.33
1.610	1522.75	45474	43.890	5.34	1521.45	43.40
1.620	1522.28	45469	43.890	5.34	1520.97	43.40
1.630	1521.80	45462	43.890	5.34	1520.50	43.40
1.640	1521.33	45453	43.890	5.34	1520.03	43.40
1.650	1520.85	45442	43.890	5.34	1519.55	43.40
1.660	1520.37	45430	43.890	5.34	1519.08	43.40
1.670	1519.89	45416	43.890	5.34	1518.61	43.40
1.680	1519.42	45401	43.890	5.34	1518.14	43.40
1.690	1518.94	45384	43.890	5.34	1517.66	43.40
1.700	1518.46	45365	43.890	5.33	1517.19	43.40
1.710	1517.98	45345	43.890	5.33	1516.72	43.40
1.720	1517.49	45324	43.890	5.32	1516.24	43.40
1.730	1517.01	45301	43.890	5.32	1515.77	43.40

FLOOD CREST SUMMARY :

Cross Section Location (mi)	Maximum Stage Elevation (ft MSL)	Maximum Flow (cfs)	Time To Maximum Stage (hr)	Maximum Flow Velocity (ft/sec)	Flood Elevation (ft MSL)	Time To Flood Elevation (hr)
1.740	1516.52	45277	43.890	5.31	1515.30	43.40
1.750	1516.03	45251	43.890	5.30	1514.82	43.40
1.760	1515.54	45224	43.890	5.29	1514.35	43.47
1.770	1515.05	45196	43.890	5.29	1513.88	43.47
1.780	1514.55	45168	43.890	5.28	1513.41	43.47
1.790	1514.04	45139	43.890	5.28	1512.93	43.47
1.800	1513.53	45110	43.890	5.29	1512.46	43.47
1.810	1513.01	45080	43.960	5.30	1511.99	43.47
1.820	1512.49	45050	43.960	5.31	1511.51	43.47
1.830	1511.97	45029	43.960	5.32	1511.04	43.47
1.840	1511.44	45044	43.960	5.33	1510.57	43.54
1.850	1510.92	45058	43.960	5.34	1510.09	43.54
1.860	1510.39	45071	43.960	5.35	1509.62	43.54
1.870	1509.87	45083	43.960	5.36	1509.15	43.61
1.880	1509.34	45093	43.960	5.37	1508.68	43.61
1.890	1508.80	45102	43.960	5.39	1508.20	43.61
1.900	1508.27	45110	43.960	5.40	1507.73	43.68
1.910	1507.74	45116	43.960	5.41	1507.26	43.68
1.920	1507.20	45121	43.960	5.42	1506.78	43.75
1.930	1506.66	45125	43.960	5.44	1506.31	43.75
1.940	1506.12	45128	43.960	5.45	1505.84	43.82
1.950	1505.58	45130	43.960	5.46	1505.36	43.82
1.960	1505.03	45130	43.960	5.48	1504.89	43.89
1.970	1504.48	45130	43.960	5.49	1504.42	43.89
1.980	1503.93	45129	43.960	5.50	1503.95	.00
1.990	1503.38	45127	43.960	5.52	1503.47	.00
2.000	1502.83	45125	43.960	5.53	1503.00	.00

COMPUTED WATER SURFACE ELEVATIONS AT REQUESTED STATIONS WHERE HYDROGRAPHS ARE PLOTTED :

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
1	.000	1498.81					
2	.070	1498.81					
3	.140	1498.81					
4	.210	1498.81					
5	.280	1498.81					
6	.350	1498.81					
7	.420	1498.81					
8	.490	1498.81					
9	.560	1498.81					
10	.630	1498.81					
11	.700	1498.81					
12	.770	1498.81					
13	.840	1498.81					
14	.910	1498.81					
15	.980	1498.81					
16	1.050	1498.81					
17	1.120	1498.81					
18	1.190	1498.81					
19	1.260	1498.81					
20	1.330	1498.81					
21	1.400	1498.81					
22	1.470	1498.81					
23	1.540	1498.81					
24	1.610	1498.81					
25	1.680	1498.81					
26	1.750	1498.81					
27	1.820	1498.81					
28	1.890	1498.81					
29	1.960	1498.81					
30	2.030	1498.81					
31	2.100	1498.81					
32	2.170	1498.81					
33	2.240	1498.81					
34	2.310	1498.81					
35	2.380	1498.81					
36	2.450	1498.81					
37	2.520	1498.81					
38	2.590	1498.81					
39	2.660	1498.81					
40	2.730	1498.81					
41	2.800	1498.81					
42	2.870	1498.81					
43	2.940	1498.81					
44	3.010	1498.81					
45	3.080	1498.81					
46	3.150	1498.81					
47	3.220	1498.81					
48	3.290	1498.81					
49	3.360	1498.81					

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
50	3.430	1498.81					
51	3.500	1498.81					
52	3.570	1498.81					
53	3.640	1498.81					
54	3.710	1498.81					
55	3.780	1498.81					
56	3.850	1498.81					
57	3.920	1498.81					
58	3.990	1498.81					
59	4.060	1498.81					
60	4.130	1498.81					
61	4.200	1498.81					
62	4.270	1498.81					
63	4.340	1498.81					
64	4.410	1498.81					
65	4.480	1498.81					
66	4.550	1498.81					
67	4.620	1498.81					
68	4.690	1498.81					
69	4.760	1498.81					
70	4.830	1498.81					
71	4.900	1498.81					
72	4.970	1498.81					
73	5.040	1498.81					
74	5.110	1498.81					
75	5.180	1498.81					
76	5.250	1498.81					
77	5.320	1498.81					
78	5.390	1498.81					
79	5.460	1498.81					
80	5.530	1498.81					
81	5.600	1498.81					
82	5.670	1498.81					
83	5.740	1498.81					
84	5.810	1498.81					
85	5.880	1498.81					
86	5.950	1498.81					
87	6.020	1498.81					
88	6.090	1498.81					
89	6.160	1498.81					
90	6.230	1498.81					
91	6.300	1498.81					
92	6.370	1498.81					
93	6.440	1498.81					
94	6.510	1498.81					
95	6.580	1498.81					
96	6.650	1498.81					
97	6.720	1498.81					
98	6.790	1498.81					
99	6.860	1498.81					

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
100	6.930	1498.81					
101	7.000	1498.81					
102	7.070	1498.81					
103	7.140	1498.81					
104	7.210	1498.81					
105	7.280	1498.81					
106	7.350	1498.81					
107	7.420	1498.81					
108	7.490	1498.81					
109	7.560	1498.81					
110	7.630	1498.81					
111	7.700	1498.81					
112	7.770	1498.81					
113	7.840	1498.81					
114	7.910	1498.81					
115	7.980	1498.81					
116	8.050	1498.81					
117	8.120	1498.81					
118	8.190	1498.81					
119	8.260	1498.81					
120	8.330	1498.81					
121	8.400	1498.81					
122	8.470	1498.81					
123	8.540	1498.81					
124	8.610	1498.81					
125	8.680	1498.81					
126	8.750	1498.81					
127	8.820	1498.81					
128	8.890	1498.81					
129	8.960	1498.81					
130	9.030	1498.81					
131	9.100	1498.81					
132	9.170	1498.81					
133	9.240	1498.81					
134	9.310	1498.81					
135	9.380	1498.81					
136	9.450	1498.81					
137	9.520	1498.81					
138	9.590	1498.81					
139	9.660	1498.81					
140	9.730	1498.81					
141	9.800	1498.81					
142	9.870	1498.81					
143	9.940	1498.81					
144	10.010	1498.81					
145	10.080	1498.81					
146	10.150	1498.81					
147	10.220	1498.81					
148	10.290	1498.81					
149	10.360	1498.81					

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
150	10.430	1498.81					
151	10.500	1498.81					
152	10.570	1498.81					
153	10.640	1498.81					
154	10.710	1498.81					
155	10.780	1498.81					
156	10.850	1498.81					
157	10.920	1498.81					
158	10.990	1498.81					
159	11.060	1498.81					
160	11.130	1498.81					
161	11.200	1498.81					
162	11.270	1498.81					
163	11.340	1498.81					
164	11.410	1498.81					
165	11.480	1498.81					
166	11.550	1498.81					
167	11.620	1498.81					
168	11.690	1498.81					
169	11.760	1498.81					
170	11.830	1498.81					
171	11.900	1498.81					
172	11.970	1498.81					
173	12.040	1498.81					
174	12.110	1498.81					
175	12.180	1498.81					
176	12.250	1498.81					
177	12.320	1498.81					
178	12.390	1498.81					
179	12.460	1498.81					
180	12.530	1498.81					
181	12.600	1498.81					
182	12.670	1498.81					
183	12.740	1498.81					
184	12.810	1498.81					
185	12.880	1498.81					
186	12.950	1498.81					
187	13.020	1498.81					
188	13.090	1498.81					
189	13.160	1498.81					
190	13.230	1498.81					
191	13.300	1498.81					
192	13.370	1498.81					
193	13.440	1498.81					
194	13.510	1498.81					
195	13.580	1498.81					
196	13.650	1498.81					
197	13.720	1498.81					
198	13.790	1498.81					
199	13.860	1498.81					

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
200	13.930	1498.81					
201	14.000	1498.81					
202	14.070	1498.81					
203	14.140	1498.81					
204	14.210	1498.81					
205	14.280	1498.81					
206	14.350	1498.81					
207	14.420	1498.81					
208	14.490	1498.81					
209	14.560	1498.81					
210	14.630	1498.81					
211	14.700	1498.81					
212	14.770	1498.81					
213	14.840	1498.81					
214	14.910	1498.81					
215	14.980	1498.81					
216	15.050	1498.81					
217	15.120	1498.81					
218	15.190	1498.81					
219	15.260	1498.81					
220	15.330	1498.81					
221	15.400	1498.81					
222	15.470	1498.81					
223	15.540	1498.81					
224	15.610	1498.81					
225	15.680	1498.81					
226	15.750	1498.81					
227	15.820	1498.81					
228	15.890	1498.81					
229	15.960	1498.81					
230	16.030	1498.81					
231	16.100	1498.81					
232	16.170	1498.81					
233	16.240	1498.81					
234	16.310	1498.81					
235	16.380	1498.81					
236	16.450	1498.81					
237	16.520	1498.81					
238	16.590	1498.81					
239	16.660	1498.81					
240	16.730	1498.81					
241	16.800	1498.81					
242	16.870	1498.81					
243	16.940	1498.81					
244	17.010	1498.81					
245	17.080	1498.81					
246	17.150	1498.81					
247	17.220	1498.81					
248	17.290	1498.81					
249	17.360	1498.81					

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
250	17.430	1498.81					
251	17.500	1498.81					
252	17.570	1498.81					
253	17.640	1498.81					
254	17.710	1498.81					
255	17.780	1498.81					
256	17.850	1498.81					
257	17.920	1498.81					
258	17.990	1498.81					
259	18.060	1498.81					
260	18.130	1498.81					
261	18.200	1498.81					
262	18.270	1498.81					
263	18.340	1498.81					
264	18.410	1498.81					
265	18.480	1498.81					
266	18.550	1498.81					
267	18.620	1498.81					
268	18.690	1498.81					
269	18.760	1498.81					
270	18.830	1498.81					
271	18.900	1498.81					
272	18.970	1498.81					
273	19.040	1498.81					
274	19.110	1498.81					
275	19.180	1498.81					
276	19.250	1498.81					
277	19.320	1498.81					
278	19.390	1498.81					
279	19.460	1498.81					
280	19.530	1498.81					
281	19.600	1498.81					
282	19.670	1498.81					
283	19.740	1498.81					
284	19.810	1498.81					
285	19.880	1498.81					
286	19.950	1498.81					
287	20.020	1498.81					
288	20.090	1498.81					
289	20.160	1498.81					
290	20.230	1498.81					
291	20.300	1498.81					
292	20.370	1498.81					
293	20.440	1498.81					
294	20.510	1498.81					
295	20.580	1498.81					
296	20.650	1498.81					
297	20.720	1498.81					
298	20.790	1498.81					
299	20.860	1498.81					

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
300	20.930	1498.81					
301	21.000	1498.81					
302	21.070	1498.81					
303	21.140	1498.81					
304	21.210	1498.81					
305	21.280	1498.81					
306	21.350	1498.81					
307	21.420	1498.81					
308	21.490	1498.81					
309	21.560	1498.81					
310	21.630	1498.81					
311	21.700	1498.81					
312	21.770	1498.81					
313	21.840	1498.81					
314	21.910	1498.81					
315	21.980	1498.81					
316	22.050	1498.81					
317	22.120	1498.81					
318	22.190	1498.81					
319	22.260	1498.81					
320	22.330	1498.81					
321	22.400	1498.81					
322	22.470	1498.81					
323	22.540	1498.81					
324	22.610	1498.81					
325	22.680	1498.81					
326	22.750	1498.81					
327	22.820	1498.81					
328	22.890	1498.81					
329	22.960	1498.81					
330	23.030	1498.81					
331	23.100	1498.81					
332	23.170	1498.81					
333	23.240	1498.81					
334	23.310	1498.81					
335	23.380	1498.81					
336	23.450	1498.81					
337	23.520	1498.81					
338	23.590	1498.81					
339	23.660	1498.81					
340	23.730	1498.81					
341	23.800	1498.81					
342	23.870	1498.81					
343	23.940	1498.81					
344	24.010	1498.81					
345	24.080	1498.81					
346	24.150	1498.81					
347	24.220	1498.81					
348	24.290	1498.81					
349	24.360	1498.81					

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
350	24.430	1498.81					
351	24.500	1498.81					
352	24.570	1498.81					
353	24.640	1498.81					
354	24.710	1498.81					
355	24.780	1498.81					
356	24.850	1498.81					
357	24.920	1498.81					
358	24.990	1498.81					
359	25.060	1498.81					
360	25.130	1498.81					
361	25.200	1498.81					
362	25.270	1498.81					
363	25.340	1498.81					
364	25.410	1498.81					
365	25.480	1498.81					
366	25.550	1498.81					
367	25.620	1498.81					
368	25.690	1498.81					
369	25.760	1498.81					
370	25.830	1498.81					
371	25.900	1498.81					
372	25.970	1498.81					
373	26.040	1498.81					
374	26.110	1498.81					
375	26.180	1498.81					
376	26.250	1498.81					
377	26.320	1498.81					
378	26.390	1498.81					
379	26.460	1498.81					
380	26.530	1498.81					
381	26.600	1498.81					
382	26.670	1498.81					
383	26.740	1498.81					
384	26.810	1498.81					
385	26.880	1498.81					
386	26.950	1498.81					
387	27.020	1498.81					
388	27.090	1498.81					
389	27.160	1498.81					
390	27.230	1498.81					
391	27.300	1498.81					
392	27.370	1498.81					
393	27.440	1498.81					
394	27.510	1498.81					
395	27.580	1498.81					
396	27.650	1498.81					
397	27.720	1498.81					
398	27.790	1498.81					
399	27.860	1498.81					

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
400	27.930	1498.81					
401	28.000	1498.81					
402	28.070	1498.81					
403	28.140	1498.81					
404	28.210	1498.81					
405	28.280	1498.81					
406	28.350	1498.81					
407	28.420	1498.81					
408	28.490	1498.81					
409	28.560	1498.81					
410	28.630	1498.81					
411	28.700	1498.81					
412	28.770	1498.81					
413	28.840	1498.81					
414	28.910	1498.81					
415	28.980	1498.81					
416	29.050	1498.81					
417	29.120	1498.81					
418	29.190	1498.81					
419	29.260	1498.81					
420	29.330	1498.81					
421	29.400	1498.81					
422	29.470	1498.81					
423	29.540	1498.81					
424	29.610	1498.81					
425	29.680	1498.81					
426	29.750	1498.81					
427	29.820	1498.81					
428	29.890	1498.81					
429	29.960	1498.81					
430	30.030	1498.81					
431	30.100	1498.81					
432	30.170	1498.81					
433	30.240	1498.81					
434	30.310	1498.81					
435	30.380	1498.81					
436	30.450	1498.81					
437	30.520	1498.81					
438	30.590	1498.81					
439	30.660	1498.81					
440	30.730	1498.81					
441	30.800	1498.81					
442	30.870	1498.81					
443	30.940	1498.81					
444	31.010	1498.81					
445	31.080	1498.81					
446	31.150	1498.81					
447	31.220	1498.81					
448	31.290	1498.81					
449	31.360	1498.81					

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
450	31.430	1498.81					
451	31.500	1498.81					
452	31.570	1498.81					
453	31.640	1498.81					
454	31.710	1498.81					
455	31.780	1498.81					
456	31.850	1498.81					
457	31.920	1498.81					
458	31.990	1498.81					
459	32.060	1498.81					
460	32.130	1498.81					
461	32.200	1498.81					
462	32.270	1498.81					
463	32.340	1498.81					
464	32.410	1498.81					
465	32.480	1498.81					
466	32.550	1498.81					
467	32.620	1498.81					
468	32.690	1498.81					
469	32.760	1498.81					
470	32.830	1498.81					
471	32.900	1498.81					
472	32.970	1498.81					
473	33.040	1498.81					
474	33.110	1498.81					
475	33.180	1498.81					
476	33.250	1498.81					
477	33.320	1498.81					
478	33.390	1498.81					
479	33.460	1498.81					
480	33.530	1498.81					
481	33.600	1498.81					
482	33.670	1498.81					
483	33.740	1498.81					
484	33.810	1498.81					
485	33.880	1498.81					
486	33.950	1498.81					
487	34.020	1498.81					
488	34.090	1498.81					
489	34.160	1498.81					
490	34.230	1498.81					
491	34.300	1498.81					
492	34.370	1498.81					
493	34.440	1498.81					
494	34.510	1498.81					
495	34.580	1498.81					
496	34.650	1498.81					
497	34.720	1498.81					
498	34.790	1498.81					
499	34.860	1498.81					

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
500	34.930	1498.81					
501	35.000	1498.81					
502	35.070	1498.81					
503	35.140	1498.81					
504	35.210	1498.81					
505	35.280	1498.81					
506	35.350	1498.81					
507	35.420	1498.81					
508	35.490	1498.81					
509	35.560	1498.81					
510	35.630	1498.81					
511	35.700	1498.81					
512	35.770	1498.81					
513	35.840	1498.81					
514	35.910	1498.81					
515	35.980	1498.81					
516	36.050	1498.81					
517	36.120	1498.81					
518	36.190	1498.81					
519	36.260	1498.81					
520	36.330	1498.81					
521	36.400	1498.81					
522	36.470	1498.81					
523	36.540	1498.81					
524	36.610	1498.81					
525	36.680	1498.81					
526	36.750	1498.81					
527	36.820	1498.81					
528	36.890	1498.81					
529	36.960	1498.81					
530	37.030	1498.81					
531	37.100	1498.81					
532	37.170	1498.81					
533	37.240	1498.81					
534	37.310	1498.81					
535	37.380	1498.81					
536	37.450	1498.81					
537	37.520	1498.81					
538	37.590	1498.81					
539	37.660	1498.81					
540	37.730	1498.81					
541	37.800	1498.81					
542	37.870	1498.81					
543	37.940	1498.81					
544	38.010	1498.81					
545	38.080	1498.81					
546	38.150	1498.81					
547	38.220	1498.81					
548	38.290	1498.81					
549	38.360	1498.81					

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
550	38.430	1498.81					
551	38.500	1498.81					
552	38.570	1498.81					
553	38.640	1498.81					
554	38.710	1498.81					
555	38.780	1498.81					
556	38.850	1498.81					
557	38.920	1498.81					
558	38.990	1498.81					
559	39.060	1498.81					
560	39.130	1498.81					
561	39.200	1498.81					
562	39.270	1498.81					
563	39.340	1498.81					
564	39.410	1498.81					
565	39.480	1498.81					
566	39.550	1498.81					
567	39.620	1498.81					
568	39.690	1498.81					
569	39.760	1498.81					
570	39.830	1498.81					
571	39.900	1498.81					
572	39.970	1498.81					
573	40.040	1498.81					
574	40.110	1498.81					
575	40.180	1498.81					
576	40.250	1498.81					
577	40.320	1498.81					
578	40.390	1498.81					
579	40.460	1498.81					
580	40.530	1498.81					
581	40.600	1498.81					
582	40.670	1498.81					
583	40.740	1498.81					
584	40.810	1498.81					
585	40.880	1498.81					
586	40.950	1498.81					
587	41.020	1498.81					
588	41.090	1498.81					
589	41.160	1498.81					
590	41.230	1498.81					
591	41.300	1498.81					
592	41.370	1498.81					
593	41.440	1498.81					
594	41.510	1498.81					
595	41.580	1498.81					
596	41.650	1498.81					
597	41.720	1498.81					
598	41.790	1498.81					
599	41.860	1498.81					

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
600	41.930	1498.81					
601	42.000	1498.81					
602	42.070	1498.81					
603	42.140	1498.81					
604	42.210	1498.81					
605	42.280	1498.81					
606	42.350	1498.81					
607	42.420	1498.81					
608	42.490	1498.81					
609	42.560	1498.81					
610	42.630	1498.81					
611	42.700	1498.83					
612	42.770	1498.94					
613	42.840	1499.27					
614	42.910	1499.80					
615	42.980	1500.26					
616	43.050	1500.58					
617	43.120	1500.83					
618	43.190	1501.06					
619	43.260	1501.28					
620	43.330	1501.48					
621	43.400	1501.67					
622	43.470	1501.86					
623	43.540	1502.03					
624	43.610	1502.20					
625	43.680	1502.36					
626	43.750	1502.52					
627	43.820	1502.67					
628	43.890	1502.78					
629	43.960	1502.83					
630	44.030	1502.78					
631	44.100	1502.67					
632	44.170	1502.57					
633	44.240	1502.46					
634	44.310	1502.35					
635	44.380	1502.24					
636	44.450	1502.13					
637	44.520	1502.01					
638	44.590	1501.90					
639	44.660	1501.77					
640	44.730	1501.65					
641	44.800	1501.52					
642	44.870	1501.39					
643	44.940	1501.26					
644	45.010	1501.12					
645	45.080	1500.99					
646	45.150	1500.86					
647	45.220	1500.75					
648	45.290	1500.68					
649	45.360	1500.63					

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
650	45.430	1500.59					
651	45.500	1500.55					
652	45.570	1500.50					
653	45.640	1500.46					
654	45.710	1500.42					
655	45.780	1500.37					
656	45.850	1500.33					
657	45.920	1500.28					
658	45.990	1500.24					
659	46.060	1500.19					
660	46.130	1500.14					
661	46.200	1500.10					
662	46.270	1500.05					
663	46.340	1500.00					
664	46.410	1499.95					
665	46.480	1499.89					
666	46.550	1499.83					
667	46.620	1499.76					
668	46.690	1499.69					
669	46.760	1499.62					
670	46.830	1499.55					
671	46.900	1499.47					
672	46.970	1499.39					
673	47.040	1499.31					
674	47.110	1499.22					
675	47.180	1499.13					
676	47.250	1499.04					
677	47.320	1498.96					
678	47.390	1498.90					
679	47.460	1498.86					
680	47.530	1498.85					
681	47.600	1498.84					
682	47.670	1498.84					
683	47.740	1498.84					
684	47.810	1498.84					
685	47.880	1498.84					
686	47.950	1498.83					
687	48.020	1498.83					
688	48.090	1498.83					
689	48.160	1498.83					
690	48.230	1498.82					
691	48.300	1498.82					
692	48.370	1498.82					
693	48.440	1498.82					
694	48.510	1498.81					
695	48.580	1498.81					
696	48.650	1498.81					
697	48.720	1498.81					
698	48.790	1498.81					
699	48.860	1498.81					

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
700	48.930	1498.81					
701	49.000	1498.81					
702	49.070	1498.81					
703	49.140	1498.81					
704	49.210	1498.81					
705	49.280	1498.81					
706	49.350	1498.81					
707	49.420	1498.81					
708	49.490	1498.81					
709	49.560	1498.81					
710	49.630	1498.81					
711	49.700	1498.81					
712	49.770	1498.81					
713	49.840	1498.81					
714	49.910	1498.81					
715	49.980	1498.81					
716	50.050	1498.81					
717	50.120	1498.81					
718	50.190	1498.81					
719	50.260	1498.81					
720	50.330	1498.81					
721	50.400	1498.81					
722	50.470	1498.81					
723	50.540	1498.81					
724	50.610	1498.81					
725	50.680	1498.81					
726	50.750	1498.81					
727	50.820	1498.81					
728	50.890	1498.81					
729	50.960	1498.81					
730	51.030	1498.81					
731	51.100	1498.81					
732	51.170	1498.81					
733	51.240	1498.81					
734	51.310	1498.81					
735	51.380	1498.81					
736	51.450	1498.81					
737	51.520	1498.81					
738	51.590	1498.81					
739	51.660	1498.81					
740	51.730	1498.81					
741	51.800	1498.81					
742	51.870	1498.81					
743	51.940	1498.81					
744	52.010	1498.81					
745	52.080	1498.81					
746	52.150	1498.81					
747	52.220	1498.81					
748	52.290	1498.81					
749	52.360	1498.81					

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
750	52.430	1498.81					
751	52.500	1498.81					
752	52.570	1498.81					
753	52.640	1498.81					
754	52.710	1498.81					
755	52.780	1498.81					
756	52.850	1498.81					
757	52.920	1498.81					
758	52.990	1498.81					
759	53.060	1498.81					
760	53.130	1498.81					
761	53.200	1498.81					
762	53.270	1498.81					
763	53.340	1498.81					
764	53.410	1498.81					
765	53.480	1498.81					
766	53.550	1498.81					
767	53.620	1498.81					
768	53.690	1498.81					
769	53.760	1498.81					
770	53.830	1498.81					
771	53.900	1498.81					
772	53.970	1498.81					
773	54.040	1498.81					
774	54.110	1498.81					
775	54.180	1498.81					
776	54.250	1498.81					
777	54.320	1498.81					
778	54.390	1498.81					
779	54.460	1498.81					
780	54.530	1498.81					
781	54.600	1498.81					
782	54.670	1498.81					
783	54.740	1498.81					
784	54.810	1498.81					
785	54.880	1498.81					
786	54.950	1498.81					
787	55.020	1498.81					
788	55.090	1498.81					
789	55.160	1498.81					
790	55.230	1498.81					
791	55.300	1498.81					
792	55.370	1498.81					
793	55.440	1498.81					
794	55.510	1498.81					
795	55.580	1498.81					
796	55.650	1498.81					
797	55.720	1498.81					
798	55.790	1498.81					
799	55.860	1498.81					

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
800	55.930	1498.81					
801	56.000	1498.81					
802	56.070	1498.81					
803	56.140	1498.81					
804	56.210	1498.81					
805	56.280	1498.81					
806	56.350	1498.81					
807	56.420	1498.81					
808	56.490	1498.81					
809	56.560	1498.81					
810	56.630	1498.81					
811	56.700	1498.81					
812	56.770	1498.81					
813	56.840	1498.81					
814	56.910	1498.81					
815	56.980	1498.81					
816	57.050	1498.81					
817	57.120	1498.81					
818	57.190	1498.81					
819	57.260	1498.81					
820	57.330	1498.81					
821	57.400	1498.81					
822	57.470	1498.81					
823	57.540	1498.81					
824	57.610	1498.81					
825	57.680	1498.81					
826	57.750	1498.81					
827	57.820	1498.81					
828	57.890	1498.81					
829	57.960	1498.81					
830	58.030	1498.81					
831	58.100	1498.81					
832	58.170	1498.81					
833	58.240	1498.81					
834	58.310	1498.81					
835	58.380	1498.81					
836	58.450	1498.81					
837	58.520	1498.81					
838	58.590	1498.81					
839	58.660	1498.81					
840	58.730	1498.81					
841	58.800	1498.81					
842	58.870	1498.81					
843	58.940	1498.81					
844	59.010	1498.81					
845	59.080	1498.81					
846	59.150	1498.81					
847	59.220	1498.81					
848	59.290	1498.81					
849	59.360	1498.81					

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
850	59.430	1498.81					
851	59.500	1498.81					
852	59.570	1498.81					
853	59.640	1498.81					
854	59.710	1498.81					
855	59.780	1498.81					
856	59.850	1498.81					
857	59.920	1498.81					
858	59.990	1498.81					
859	60.060	1498.81					
860	60.130	1498.81					
861	60.200	1498.81					
862	60.270	1498.81					
863	60.340	1498.81					
864	60.410	1498.81					
865	60.480	1498.81					
866	60.550	1498.81					
867	60.620	1498.81					
868	60.690	1498.81					
869	60.760	1498.81					
870	60.830	1498.81					
871	60.900	1498.81					
872	60.970	1498.81					
873	61.040	1498.81					
874	61.110	1498.81					
875	61.180	1498.81					
876	61.250	1498.81					
877	61.320	1498.81					
878	61.390	1498.81					
879	61.460	1498.81					
880	61.530	1498.81					
881	61.600	1498.81					
882	61.670	1498.81					
883	61.740	1498.81					
884	61.810	1498.81					
885	61.880	1498.81					
886	61.950	1498.81					
887	62.020	1498.81					
888	62.090	1498.81					
889	62.160	1498.81					
890	62.230	1498.81					
891	62.300	1498.81					
892	62.370	1498.81					
893	62.440	1498.81					
894	62.510	1498.81					
895	62.580	1498.81					
896	62.650	1498.81					
897	62.720	1498.81					
898	62.790	1498.81					
899	62.860	1498.81					

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
900	62.930	1498.81					
901	63.000	1498.81					
902	63.070	1498.81					
903	63.140	1498.81					
904	63.210	1498.81					
905	63.280	1498.81					
906	63.350	1498.81					
907	63.420	1498.81					
908	63.490	1498.81					
909	63.560	1498.81					
910	63.630	1498.81					
911	63.700	1498.81					
912	63.770	1498.81					
913	63.840	1498.81					
914	63.910	1498.81					
915	63.980	1498.81					
916	64.050	1498.81					
917	64.120	1498.81					
918	64.190	1498.81					
919	64.260	1498.81					
920	64.330	1498.81					
921	64.400	1498.81					
922	64.470	1498.81					
923	64.540	1498.81					
924	64.610	1498.81					
925	64.680	1498.81					
926	64.750	1498.81					
927	64.820	1498.81					
928	64.890	1498.81					
929	64.960	1498.81					
930	65.030	1498.81					
931	65.100	1498.81					
932	65.170	1498.81					
933	65.240	1498.81					
934	65.310	1498.81					
935	65.380	1498.81					
936	65.450	1498.81					
937	65.520	1498.81					
938	65.590	1498.81					
939	65.660	1498.81					
940	65.730	1498.81					
941	65.800	1498.81					
942	65.870	1498.81					
943	65.940	1498.81					
944	66.010	1498.81					
945	66.080	1498.81					
946	66.150	1498.81					
947	66.220	1498.81					
948	66.290	1498.81					
949	66.360	1498.81					

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
950	66.430	1498.81					
951	66.500	1498.81					
952	66.570	1498.81					
953	66.640	1498.81					
954	66.710	1498.81					
955	66.780	1498.81					
956	66.850	1498.81					
957	66.920	1498.81					
958	66.990	1498.81					
959	67.060	1498.81					
960	67.130	1498.81					
961	67.200	1498.81					
962	67.270	1498.81					
963	67.340	1498.81					
964	67.410	1498.81					
965	67.480	1498.81					
966	67.550	1498.81					
967	67.620	1498.81					
968	67.690	1498.81					
969	67.760	1498.81					
970	67.830	1498.81					
971	67.900	1498.81					
972	67.970	1498.81					
973	68.040	1498.81					
974	68.110	1498.81					
975	68.180	1498.81					
976	68.250	1498.81					
977	68.320	1498.81					
978	68.390	1498.81					
979	68.460	1498.81					
980	68.530	1498.81					
981	68.600	1498.81					
982	68.670	1498.81					
983	68.740	1498.81					
984	68.810	1498.81					
985	68.880	1498.81					
986	68.950	1498.81					
987	69.020	1498.81					
988	69.090	1498.81					
989	69.160	1498.81					
990	69.230	1498.81					
991	69.300	1498.81					
992	69.370	1498.81					
993	69.440	1498.81					
994	69.510	1498.81					
995	69.580	1498.81					
996	69.650	1498.81					
997	69.720	1498.81					
998	69.790	1498.81					
999	69.860	1498.81					

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
1000	69.930	1498.81					
1001	70.000	1498.81					
1002	70.070	1498.81					
1003	70.140	1498.81					
1004	70.210	1498.81					
1005	70.280	1498.81					
1006	70.350	1498.81					
1007	70.420	1498.81					
1008	70.490	1498.81					
1009	70.560	1498.81					
1010	70.630	1498.81					
1011	70.700	1498.81					
1012	70.770	1498.81					
1013	70.840	1498.81					
1014	70.910	1498.81					
1015	70.980	1498.81					
1016	71.050	1498.81					
1017	71.120	1498.81					
1018	71.190	1498.81					
1019	71.260	1498.81					
1020	71.330	1498.81					
1021	71.400	1498.81					
1022	71.470	1498.81					
1023	71.540	1498.81					
1024	71.610	1498.81					
1025	71.680	1498.81					
1026	71.750	1498.81					
1027	71.820	1498.81					
1028	71.890	1498.81					
1029	71.960	1498.81					
1030	72.030	1498.81					
1031	72.100	1498.81					
1032	72.170	1498.81					
1033	72.240	1498.81					
1034	72.310	1498.81					
1035	72.380	1498.81					
1036	72.450	1498.81					
1037	72.520	1498.81					
1038	72.590	1498.81					
1039	72.660	1498.81					
1040	72.730	1498.81					
1041	72.800	1498.81					
1042	72.870	1498.81					
1043	72.940	1498.81					
1044	73.010	1498.81					
1045	73.080	1498.81					
1046	73.150	1498.81					
1047	73.220	1498.81					
1048	73.290	1498.81					
1049	73.360	1498.81					

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
1050	73.430	1498.81					
1051	73.500	1498.81					
1052	73.570	1498.81					
1053	73.640	1498.81					
1054	73.710	1498.81					
1055	73.780	1498.81					
1056	73.850	1498.81					
1057	73.920	1498.81					
1058	73.990	1498.81					
1059	74.060	1498.81					
1060	74.130	1498.81					
1061	74.200	1498.81					
1062	74.270	1498.81					
1063	74.340	1498.81					
1064	74.410	1498.81					
1065	74.480	1498.81					
1066	74.550	1498.81					
1067	74.620	1498.81					
1068	74.690	1498.81					
1069	74.760	1498.81					
1070	74.830	1498.81					
1071	74.900	1498.81					
1072	74.970	1498.81					
1073	75.040	1498.81					
1074	75.110	1498.81					
1075	75.180	1498.81					
1076	75.250	1498.81					
1077	75.320	1498.81					
1078	75.390	1498.81					
1079	75.460	1498.81					
1080	75.530	1498.81					
1081	75.600	1498.81					
1082	75.670	1498.81					
1083	75.740	1498.81					
1084	75.810	1498.81					
1085	75.880	1498.81					
1086	75.950	1498.81					
1087	76.020	1498.81					
1088	76.090	1498.81					
1089	76.160	1498.81					
1090	76.230	1498.81					
1091	76.300	1498.81					
1092	76.370	1498.81					
1093	76.440	1498.81					
1094	76.510	1498.81					
1095	76.580	1498.81					
1096	76.650	1498.81					
1097	76.720	1498.81					
1098	76.790	1498.81					
1099	76.860	1498.81					

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
1100	76.930	1498.81					
1101	77.000	1498.81					
1102	77.070	1498.81					
1103	77.140	1498.81					
1104	77.210	1498.81					
1105	77.280	1498.81					
1106	77.350	1498.81					
1107	77.420	1498.81					
1108	77.490	1498.81					
1109	77.560	1498.81					
1110	77.630	1498.81					
1111	77.700	1498.81					
1112	77.770	1498.81					
1113	77.840	1498.81					
1114	77.910	1498.81					
1115	77.980	1498.81					
1116	78.050	1498.81					
1117	78.120	1498.81					
1118	78.190	1498.81					
1119	78.260	1498.81					
1120	78.330	1498.81					
1121	78.400	1498.81					
1122	78.470	1498.81					
1123	78.540	1498.81					
1124	78.610	1498.81					
1125	78.680	1498.81					
1126	78.750	1498.81					
1127	78.820	1498.81					
1128	78.890	1498.81					
1129	78.960	1498.81					
1130	79.030	1498.81					
1131	79.100	1498.81					
1132	79.170	1498.81					
1133	79.240	1498.81					
1134	79.310	1498.81					
1135	79.380	1498.81					
1136	79.450	1498.81					
1137	79.520	1498.81					
1138	79.590	1498.81					
1139	79.660	1498.81					
1140	79.730	1498.81					
1141	79.800	1498.81					
1142	79.870	1498.81					

COMPUTED DISCHARGES AT REQUESTED
STATIONS WHERE HYDROGRAPHS ARE PLOTTED :

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs E3)	Station 2 Discharge QC(K,2) (cfs E3)	Station 3 Discharge QC(K,3) (cfs E3)	Station 4 Discharge QC(K,4) (cfs E3)	Station 5 Discharge QC(K,5) (cfs E3)	Station 6 Discharge QC(K,6) (cfs E3)
1	.000	2.00					
2	.070	2.00					
3	.140	2.00					
4	.210	2.00					
5	.280	2.00					
6	.350	2.00					
7	.420	2.00					
8	.490	2.00					
9	.560	2.00					
10	.630	2.00					
11	.700	2.00					
12	.770	2.00					
13	.840	2.00					
14	.910	2.00					
15	.980	2.00					
16	1.050	2.00					
17	1.120	2.00					
18	1.190	2.00					
19	1.260	2.00					
20	1.330	2.00					
21	1.400	2.00					
22	1.470	2.00					
23	1.540	2.00					
24	1.610	2.00					
25	1.680	2.00					
26	1.750	2.00					
27	1.820	2.00					
28	1.890	2.00					
29	1.960	2.00					
30	2.030	2.00					
31	2.100	2.00					
32	2.170	2.00					
33	2.240	2.00					
34	2.310	2.00					
35	2.380	2.00					
36	2.450	2.00					
37	2.520	2.00					
38	2.590	2.00					
39	2.660	2.00					
40	2.730	2.00					
41	2.800	2.00					
42	2.870	2.00					
43	2.940	2.00					
44	3.010	2.00					
45	3.080	2.00					
46	3.150	2.00					
47	3.220	2.00					
48	3.290	2.00					
49	3.360	2.00					

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs E3)	Station 2 Discharge QC(K,2) (cfs E3)	Station 3 Discharge QC(K,3) (cfs E3)	Station 4 Discharge QC(K,4) (cfs E3)	Station 5 Discharge QC(K,5) (cfs E3)	Station 6 Discharge QC(K,6) (cfs E3)
50	3.430	2.00					
51	3.500	2.00					
52	3.570	2.00					
53	3.640	2.00					
54	3.710	2.00					
55	3.780	2.00					
56	3.850	2.00					
57	3.920	2.00					
58	3.990	2.00					
59	4.060	2.00					
60	4.130	2.00					
61	4.200	2.00					
62	4.270	2.00					
63	4.340	2.00					
64	4.410	2.00					
65	4.480	2.00					
66	4.550	2.00					
67	4.620	2.00					
68	4.690	2.00					
69	4.760	2.00					
70	4.830	2.00					
71	4.900	2.00					
72	4.970	2.00					
73	5.040	2.00					
74	5.110	2.00					
75	5.180	2.00					
76	5.250	2.00					
77	5.320	2.00					
78	5.390	2.00					
79	5.460	2.00					
80	5.530	2.00					
81	5.600	2.00					
82	5.670	2.00					
83	5.740	2.00					
84	5.810	2.00					
85	5.880	2.00					
86	5.950	2.00					
87	6.020	2.00					
88	6.090	2.00					
89	6.160	2.00					
90	6.230	2.00					
91	6.300	2.00					
92	6.370	2.00					
93	6.440	2.00					
94	6.510	2.00					
95	6.580	2.00					
96	6.650	2.00					
97	6.720	2.00					
98	6.790	2.00					
99	6.860	2.00					

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs E3)	Station 2 Discharge QC(K,2) (cfs E3)	Station 3 Discharge QC(K,3) (cfs E3)	Station 4 Discharge QC(K,4) (cfs E3)	Station 5 Discharge QC(K,5) (cfs E3)	Station 6 Discharge QC(K,6) (cfs E3)
100	6.930	2.00					
101	7.000	2.00					
102	7.070	2.00					
103	7.140	2.00					
104	7.210	2.00					
105	7.280	2.00					
106	7.350	2.00					
107	7.420	2.00					
108	7.490	2.00					
109	7.560	2.00					
110	7.630	2.00					
111	7.700	2.00					
112	7.770	2.00					
113	7.840	2.00					
114	7.910	2.00					
115	7.980	2.00					
116	8.050	2.00					
117	8.120	2.00					
118	8.190	2.00					
119	8.260	2.00					
120	8.330	2.00					
121	8.400	2.00					
122	8.470	2.00					
123	8.540	2.00					
124	8.610	2.00					
125	8.680	2.00					
126	8.750	2.00					
127	8.820	2.00					
128	8.890	2.00					
129	8.960	2.00					
130	9.030	2.00					
131	9.100	2.00					
132	9.170	2.00					
133	9.240	2.00					
134	9.310	2.00					
135	9.380	2.00					
136	9.450	2.00					
137	9.520	2.00					
138	9.590	2.00					
139	9.660	2.00					
140	9.730	2.00					
141	9.800	2.00					
142	9.870	2.00					
143	9.940	2.00					
144	10.010	2.00					
145	10.080	2.00					
146	10.150	2.00					
147	10.220	2.00					
148	10.290	2.00					
149	10.360	2.00					

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs E3)	Station 2 Discharge QC(K,2) (cfs E3)	Station 3 Discharge QC(K,3) (cfs E3)	Station 4 Discharge QC(K,4) (cfs E3)	Station 5 Discharge QC(K,5) (cfs E3)	Station 6 Discharge QC(K,6) (cfs E3)
150	10.430	2.00					
151	10.500	2.00					
152	10.570	2.00					
153	10.640	2.00					
154	10.710	2.00					
155	10.780	2.00					
156	10.850	2.00					
157	10.920	2.00					
158	10.990	2.00					
159	11.060	2.00					
160	11.130	2.00					
161	11.200	2.00					
162	11.270	2.00					
163	11.340	2.00					
164	11.410	2.00					
165	11.480	2.00					
166	11.550	2.00					
167	11.620	2.00					
168	11.690	2.00					
169	11.760	2.00					
170	11.830	2.00					
171	11.900	2.00					
172	11.970	2.00					
173	12.040	2.00					
174	12.110	2.00					
175	12.180	2.00					
176	12.250	2.00					
177	12.320	2.00					
178	12.390	2.00					
179	12.460	2.00					
180	12.530	2.00					
181	12.600	2.00					
182	12.670	2.00					
183	12.740	2.00					
184	12.810	2.00					
185	12.880	2.00					
186	12.950	2.00					
187	13.020	2.00					
188	13.090	2.00					
189	13.160	2.00					
190	13.230	2.00					
191	13.300	2.00					
192	13.370	2.00					
193	13.440	2.00					
194	13.510	2.00					
195	13.580	2.00					
196	13.650	2.00					
197	13.720	2.00					
198	13.790	2.00					
199	13.860	2.00					

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs E3)	Station 2 Discharge QC(K,2) (cfs E3)	Station 3 Discharge QC(K,3) (cfs E3)	Station 4 Discharge QC(K,4) (cfs E3)	Station 5 Discharge QC(K,5) (cfs E3)	Station 6 Discharge QC(K,6) (cfs E3)
200	13.930	2.00					
201	14.000	2.00					
202	14.070	2.00					
203	14.140	2.00					
204	14.210	2.00					
205	14.280	2.00					
206	14.350	2.00					
207	14.420	2.00					
208	14.490	2.00					
209	14.560	2.00					
210	14.630	2.00					
211	14.700	2.00					
212	14.770	2.00					
213	14.840	2.00					
214	14.910	2.00					
215	14.980	2.00					
216	15.050	2.00					
217	15.120	2.00					
218	15.190	2.00					
219	15.260	2.00					
220	15.330	2.00					
221	15.400	2.00					
222	15.470	2.00					
223	15.540	2.00					
224	15.610	2.00					
225	15.680	2.00					
226	15.750	2.00					
227	15.820	2.00					
228	15.890	2.00					
229	15.960	2.00					
230	16.030	2.00					
231	16.100	2.00					
232	16.170	2.00					
233	16.240	2.00					
234	16.310	2.00					
235	16.380	2.00					
236	16.450	2.00					
237	16.520	2.00					
238	16.590	2.00					
239	16.660	2.00					
240	16.730	2.00					
241	16.800	2.00					
242	16.870	2.00					
243	16.940	2.00					
244	17.010	2.00					
245	17.080	2.00					
246	17.150	2.00					
247	17.220	2.00					
248	17.290	2.00					
249	17.360	2.00					

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs E3)	Station 2 Discharge QC(K,2) (cfs E3)	Station 3 Discharge QC(K,3) (cfs E3)	Station 4 Discharge QC(K,4) (cfs E3)	Station 5 Discharge QC(K,5) (cfs E3)	Station 6 Discharge QC(K,6) (cfs E3)
250	17.430	2.00					
251	17.500	2.00					
252	17.570	2.00					
253	17.640	2.00					
254	17.710	2.00					
255	17.780	2.00					
256	17.850	2.00					
257	17.920	2.00					
258	17.990	2.00					
259	18.060	2.00					
260	18.130	2.00					
261	18.200	2.00					
262	18.270	2.00					
263	18.340	2.00					
264	18.410	2.00					
265	18.480	2.00					
266	18.550	2.00					
267	18.620	2.00					
268	18.690	2.00					
269	18.760	2.00					
270	18.830	2.00					
271	18.900	2.00					
272	18.970	2.00					
273	19.040	2.00					
274	19.110	2.00					
275	19.180	2.00					
276	19.250	2.00					
277	19.320	2.00					
278	19.390	2.00					
279	19.460	2.00					
280	19.530	2.00					
281	19.600	2.00					
282	19.670	2.00					
283	19.740	2.00					
284	19.810	2.00					
285	19.880	2.00					
286	19.950	2.00					
287	20.020	2.00					
288	20.090	2.00					
289	20.160	2.00					
290	20.230	2.00					
291	20.300	2.00					
292	20.370	2.00					
293	20.440	2.00					
294	20.510	2.00					
295	20.580	2.00					
296	20.650	2.00					
297	20.720	2.00					
298	20.790	2.00					
299	20.860	2.00					

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs E3)	Station 2 Discharge QC(K,2) (cfs E3)	Station 3 Discharge QC(K,3) (cfs E3)	Station 4 Discharge QC(K,4) (cfs E3)	Station 5 Discharge QC(K,5) (cfs E3)	Station 6 Discharge QC(K,6) (cfs E3)
300	20.930	2.00					
301	21.000	2.00					
302	21.070	2.00					
303	21.140	2.00					
304	21.210	2.00					
305	21.280	2.00					
306	21.350	2.00					
307	21.420	2.00					
308	21.490	2.00					
309	21.560	2.00					
310	21.630	2.00					
311	21.700	2.00					
312	21.770	2.00					
313	21.840	2.00					
314	21.910	2.00					
315	21.980	2.00					
316	22.050	2.00					
317	22.120	2.00					
318	22.190	2.00					
319	22.260	2.00					
320	22.330	2.00					
321	22.400	2.00					
322	22.470	2.00					
323	22.540	2.00					
324	22.610	2.00					
325	22.680	2.00					
326	22.750	2.00					
327	22.820	2.00					
328	22.890	2.00					
329	22.960	2.00					
330	23.030	2.00					
331	23.100	2.00					
332	23.170	2.00					
333	23.240	2.00					
334	23.310	2.00					
335	23.380	2.00					
336	23.450	2.00					
337	23.520	2.00					
338	23.590	2.00					
339	23.660	2.00					
340	23.730	2.00					
341	23.800	2.00					
342	23.870	2.00					
343	23.940	2.00					
344	24.010	2.00					
345	24.080	2.00					
346	24.150	2.00					
347	24.220	2.00					
348	24.290	2.00					
349	24.360	2.00					

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs E3)	Station 2 Discharge QC(K,2) (cfs E3)	Station 3 Discharge QC(K,3) (cfs E3)	Station 4 Discharge QC(K,4) (cfs E3)	Station 5 Discharge QC(K,5) (cfs E3)	Station 6 Discharge QC(K,6) (cfs E3)
350	24.430	2.00					
351	24.500	2.00					
352	24.570	2.00					
353	24.640	2.00					
354	24.710	2.00					
355	24.780	2.00					
356	24.850	2.00					
357	24.920	2.00					
358	24.990	2.00					
359	25.060	2.00					
360	25.130	2.00					
361	25.200	2.00					
362	25.270	2.00					
363	25.340	2.00					
364	25.410	2.00					
365	25.480	2.00					
366	25.550	2.00					
367	25.620	2.00					
368	25.690	2.00					
369	25.760	2.00					
370	25.830	2.00					
371	25.900	2.00					
372	25.970	2.00					
373	26.040	2.00					
374	26.110	2.00					
375	26.180	2.00					
376	26.250	2.00					
377	26.320	2.00					
378	26.390	2.00					
379	26.460	2.00					
380	26.530	2.00					
381	26.600	2.00					
382	26.670	2.00					
383	26.740	2.00					
384	26.810	2.00					
385	26.880	2.00					
386	26.950	2.00					
387	27.020	2.00					
388	27.090	2.00					
389	27.160	2.00					
390	27.230	2.00					
391	27.300	2.00					
392	27.370	2.00					
393	27.440	2.00					
394	27.510	2.00					
395	27.580	2.00					
396	27.650	2.00					
397	27.720	2.00					
398	27.790	2.00					
399	27.860	2.00					

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs E3)	Station 2 Discharge QC(K,2) (cfs E3)	Station 3 Discharge QC(K,3) (cfs E3)	Station 4 Discharge QC(K,4) (cfs E3)	Station 5 Discharge QC(K,5) (cfs E3)	Station 6 Discharge QC(K,6) (cfs E3)
400	27.930	2.00					
401	28.000	2.00					
402	28.070	2.00					
403	28.140	2.00					
404	28.210	2.00					
405	28.280	2.00					
406	28.350	2.00					
407	28.420	2.00					
408	28.490	2.00					
409	28.560	2.00					
410	28.630	2.00					
411	28.700	2.00					
412	28.770	2.00					
413	28.840	2.00					
414	28.910	2.00					
415	28.980	2.00					
416	29.050	2.00					
417	29.120	2.00					
418	29.190	2.00					
419	29.260	2.00					
420	29.330	2.00					
421	29.400	2.00					
422	29.470	2.00					
423	29.540	2.00					
424	29.610	2.00					
425	29.680	2.00					
426	29.750	2.00					
427	29.820	2.00					
428	29.890	2.00					
429	29.960	2.00					
430	30.030	2.00					
431	30.100	2.00					
432	30.170	2.00					
433	30.240	2.00					
434	30.310	2.00					
435	30.380	2.00					
436	30.450	2.00					
437	30.520	2.00					
438	30.590	2.00					
439	30.660	2.00					
440	30.730	2.00					
441	30.800	2.00					
442	30.870	2.00					
443	30.940	2.00					
444	31.010	2.00					
445	31.080	2.00					
446	31.150	2.00					
447	31.220	2.00					
448	31.290	2.00					
449	31.360	2.00					

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs E3)	Station 2 Discharge QC(K,2) (cfs E3)	Station 3 Discharge QC(K,3) (cfs E3)	Station 4 Discharge QC(K,4) (cfs E3)	Station 5 Discharge QC(K,5) (cfs E3)	Station 6 Discharge QC(K,6) (cfs E3)
450	31.430	2.00					
451	31.500	2.00					
452	31.570	2.00					
453	31.640	2.00					
454	31.710	2.00					
455	31.780	2.00					
456	31.850	2.00					
457	31.920	2.00					
458	31.990	2.00					
459	32.060	2.00					
460	32.130	2.00					
461	32.200	2.00					
462	32.270	2.00					
463	32.340	2.00					
464	32.410	2.00					
465	32.480	2.00					
466	32.550	2.00					
467	32.620	2.00					
468	32.690	2.00					
469	32.760	2.00					
470	32.830	2.00					
471	32.900	2.00					
472	32.970	2.00					
473	33.040	2.00					
474	33.110	2.00					
475	33.180	2.00					
476	33.250	2.00					
477	33.320	2.00					
478	33.390	2.00					
479	33.460	2.00					
480	33.530	2.00					
481	33.600	2.00					
482	33.670	2.00					
483	33.740	2.00					
484	33.810	2.00					
485	33.880	2.00					
486	33.950	2.00					
487	34.020	2.00					
488	34.090	2.00					
489	34.160	2.00					
490	34.230	2.00					
491	34.300	2.00					
492	34.370	2.00					
493	34.440	2.00					
494	34.510	2.00					
495	34.580	2.00					
496	34.650	2.00					
497	34.720	2.00					
498	34.790	2.00					
499	34.860	2.00					

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs E3)	Station 2 Discharge QC(K,2) (cfs E3)	Station 3 Discharge QC(K,3) (cfs E3)	Station 4 Discharge QC(K,4) (cfs E3)	Station 5 Discharge QC(K,5) (cfs E3)	Station 6 Discharge QC(K,6) (cfs E3)
500	34.930	2.00					
501	35.000	2.00					
502	35.070	2.00					
503	35.140	2.00					
504	35.210	2.00					
505	35.280	2.00					
506	35.350	2.00					
507	35.420	2.00					
508	35.490	2.00					
509	35.560	2.00					
510	35.630	2.00					
511	35.700	2.00					
512	35.770	2.00					
513	35.840	2.00					
514	35.910	2.00					
515	35.980	2.00					
516	36.050	2.00					
517	36.120	2.00					
518	36.190	2.00					
519	36.260	2.00					
520	36.330	2.00					
521	36.400	2.00					
522	36.470	2.00					
523	36.540	2.00					
524	36.610	2.00					
525	36.680	2.00					
526	36.750	2.00					
527	36.820	2.00					
528	36.890	2.00					
529	36.960	2.00					
530	37.030	2.00					
531	37.100	2.00					
532	37.170	2.00					
533	37.240	2.00					
534	37.310	2.00					
535	37.380	2.00					
536	37.450	2.00					
537	37.520	2.00					
538	37.590	2.00					
539	37.660	2.00					
540	37.730	2.00					
541	37.800	2.00					
542	37.870	2.00					
543	37.940	2.00					
544	38.010	2.00					
545	38.080	2.00					
546	38.150	2.00					
547	38.220	2.00					
548	38.290	2.00					
549	38.360	2.00					

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs E3)	Station 2 Discharge QC(K,2) (cfs E3)	Station 3 Discharge QC(K,3) (cfs E3)	Station 4 Discharge QC(K,4) (cfs E3)	Station 5 Discharge QC(K,5) (cfs E3)	Station 6 Discharge QC(K,6) (cfs E3)
550	38.430	2.00					
551	38.500	2.00					
552	38.570	2.00					
553	38.640	2.00					
554	38.710	2.00					
555	38.780	2.00					
556	38.850	2.00					
557	38.920	2.00					
558	38.990	2.00					
559	39.060	2.00					
560	39.130	2.00					
561	39.200	2.00					
562	39.270	2.00					
563	39.340	2.00					
564	39.410	2.00					
565	39.480	2.00					
566	39.550	2.00					
567	39.620	2.00					
568	39.690	2.00					
569	39.760	2.00					
570	39.830	2.00					
571	39.900	2.00					
572	39.970	2.00					
573	40.040	2.00					
574	40.110	2.00					
575	40.180	2.00					
576	40.250	2.00					
577	40.320	2.00					
578	40.390	2.00					
579	40.460	2.00					
580	40.530	2.00					
581	40.600	2.00					
582	40.670	2.00					
583	40.740	2.00					
584	40.810	2.00					
585	40.880	2.00					
586	40.950	2.00					
587	41.020	2.00					
588	41.090	2.00					
589	41.160	2.00					
590	41.230	2.00					
591	41.300	2.00					
592	41.370	2.00					
593	41.440	2.00					
594	41.510	2.00					
595	41.580	2.00					
596	41.650	2.00					
597	41.720	2.00					
598	41.790	2.00					
599	41.860	2.00					

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs E3)	Station 2 Discharge QC(K,2) (cfs E3)	Station 3 Discharge QC(K,3) (cfs E3)	Station 4 Discharge QC(K,4) (cfs E3)	Station 5 Discharge QC(K,5) (cfs E3)	Station 6 Discharge QC(K,6) (cfs E3)
600	41.930	2.00					
601	42.000	2.00					
602	42.070	2.00					
603	42.140	2.00					
604	42.210	2.00					
605	42.280	2.00					
606	42.350	2.00					
607	42.420	2.00					
608	42.490	2.00					
609	42.560	2.00					
610	42.630	2.01					
611	42.700	2.09					
612	42.770	2.46					
613	42.840	3.73					
614	42.910	6.49					
615	42.980	10.15					
616	43.050	13.47					
617	43.120	16.29					
618	43.190	19.08					
619	43.260	21.79					
620	43.330	24.45					
621	43.400	27.08					
622	43.470	29.69					
623	43.540	32.27					
624	43.610	34.83					
625	43.680	37.38					
626	43.750	39.91					
627	43.820	42.38					
628	43.890	44.38					
629	43.960	45.13					
630	44.030	44.26					
631	44.100	42.47					
632	44.170	40.59					
633	44.240	38.83					
634	44.310	37.07					
635	44.380	35.30					
636	44.450	33.54					
637	44.520	31.78					
638	44.590	30.03					
639	44.660	28.28					
640	44.730	26.54					
641	44.800	24.81					
642	44.870	23.09					
643	44.940	21.38					
644	45.010	19.68					
645	45.080	18.03					
646	45.150	16.52					
647	45.220	15.32					
648	45.290	14.52					
649	45.360	14.01					

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs E3)	Station 2 Discharge QC(K,2) (cfs E3)	Station 3 Discharge QC(K,3) (cfs E3)	Station 4 Discharge QC(K,4) (cfs E3)	Station 5 Discharge QC(K,5) (cfs E3)	Station 6 Discharge QC(K,6) (cfs E3)
650	45.430	13.61					
651	45.500	13.19					
652	45.570	12.75					
653	45.640	12.32					
654	45.710	11.89					
655	45.780	11.45					
656	45.850	11.03					
657	45.920	10.59					
658	45.990	10.17					
659	46.060	9.74					
660	46.130	9.31					
661	46.200	8.89					
662	46.270	8.46					
663	46.340	8.04					
664	46.410	7.62					
665	46.480	7.20					
666	46.550	6.78					
667	46.620	6.36					
668	46.690	5.95					
669	46.760	5.54					
670	46.830	5.13					
671	46.900	4.72					
672	46.970	4.32					
673	47.040	3.92					
674	47.110	3.53					
675	47.180	3.16					
676	47.250	2.82					
677	47.320	2.53					
678	47.390	2.33					
679	47.460	2.22					
680	47.530	2.18					
681	47.600	2.17					
682	47.670	2.17					
683	47.740	2.16					
684	47.810	2.15					
685	47.880	2.15					
686	47.950	2.14					
687	48.020	2.13					
688	48.090	2.12					
689	48.160	2.12					
690	48.230	2.11					
691	48.300	2.10					
692	48.370	2.09					
693	48.440	2.09					
694	48.510	2.08					
695	48.580	2.07					
696	48.650	2.07					
697	48.720	2.06					
698	48.790	2.05					
699	48.860	2.04					

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs E3)	Station 2 Discharge QC(K,2) (cfs E3)	Station 3 Discharge QC(K,3) (cfs E3)	Station 4 Discharge QC(K,4) (cfs E3)	Station 5 Discharge QC(K,5) (cfs E3)	Station 6 Discharge QC(K,6) (cfs E3)
700	48.930	2.04					
701	49.000	2.03					
702	49.070	2.02					
703	49.140	2.02					
704	49.210	2.01					
705	49.280	2.01					
706	49.350	2.00					
707	49.420	2.00					
708	49.490	2.00					
709	49.560	2.00					
710	49.630	2.00					
711	49.700	2.00					
712	49.770	2.00					
713	49.840	2.00					
714	49.910	2.00					
715	49.980	2.00					
716	50.050	2.00					
717	50.120	2.00					
718	50.190	2.00					
719	50.260	2.00					
720	50.330	2.00					
721	50.400	2.00					
722	50.470	2.00					
723	50.540	2.00					
724	50.610	2.00					
725	50.680	2.00					
726	50.750	2.00					
727	50.820	2.00					
728	50.890	2.00					
729	50.960	2.00					
730	51.030	2.00					
731	51.100	2.00					
732	51.170	2.00					
733	51.240	2.00					
734	51.310	2.00					
735	51.380	2.00					
736	51.450	2.00					
737	51.520	2.00					
738	51.590	2.00					
739	51.660	2.00					
740	51.730	2.00					
741	51.800	2.00					
742	51.870	2.00					
743	51.940	2.00					
744	52.010	2.00					
745	52.080	2.00					
746	52.150	2.00					
747	52.220	2.00					
748	52.290	2.00					
749	52.360	2.00					

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs E3)	Station 2 Discharge QC(K,2) (cfs E3)	Station 3 Discharge QC(K,3) (cfs E3)	Station 4 Discharge QC(K,4) (cfs E3)	Station 5 Discharge QC(K,5) (cfs E3)	Station 6 Discharge QC(K,6) (cfs E3)
750	52.430	2.00					
751	52.500	2.00					
752	52.570	2.00					
753	52.640	2.00					
754	52.710	2.00					
755	52.780	2.00					
756	52.850	2.00					
757	52.920	2.00					
758	52.990	2.00					
759	53.060	2.00					
760	53.130	2.00					
761	53.200	2.00					
762	53.270	2.00					
763	53.340	2.00					
764	53.410	2.00					
765	53.480	2.00					
766	53.550	2.00					
767	53.620	2.00					
768	53.690	2.00					
769	53.760	2.00					
770	53.830	2.00					
771	53.900	2.00					
772	53.970	2.00					
773	54.040	2.00					
774	54.110	2.00					
775	54.180	2.00					
776	54.250	2.00					
777	54.320	2.00					
778	54.390	2.00					
779	54.460	2.00					
780	54.530	2.00					
781	54.600	2.00					
782	54.670	2.00					
783	54.740	2.00					
784	54.810	2.00					
785	54.880	2.00					
786	54.950	2.00					
787	55.020	2.00					
788	55.090	2.00					
789	55.160	2.00					
790	55.230	2.00					
791	55.300	2.00					
792	55.370	2.00					
793	55.440	2.00					
794	55.510	2.00					
795	55.580	2.00					
796	55.650	2.00					
797	55.720	2.00					
798	55.790	2.00					
799	55.860	2.00					

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs E3)	Station 2 Discharge QC(K,2) (cfs E3)	Station 3 Discharge QC(K,3) (cfs E3)	Station 4 Discharge QC(K,4) (cfs E3)	Station 5 Discharge QC(K,5) (cfs E3)	Station 6 Discharge QC(K,6) (cfs E3)
800	55.930	2.00					
801	56.000	2.00					
802	56.070	2.00					
803	56.140	2.00					
804	56.210	2.00					
805	56.280	2.00					
806	56.350	2.00					
807	56.420	2.00					
808	56.490	2.00					
809	56.560	2.00					
810	56.630	2.00					
811	56.700	2.00					
812	56.770	2.00					
813	56.840	2.00					
814	56.910	2.00					
815	56.980	2.00					
816	57.050	2.00					
817	57.120	2.00					
818	57.190	2.00					
819	57.260	2.00					
820	57.330	2.00					
821	57.400	2.00					
822	57.470	2.00					
823	57.540	2.00					
824	57.610	2.00					
825	57.680	2.00					
826	57.750	2.00					
827	57.820	2.00					
828	57.890	2.00					
829	57.960	2.00					
830	58.030	2.00					
831	58.100	2.00					
832	58.170	2.00					
833	58.240	2.00					
834	58.310	2.00					
835	58.380	2.00					
836	58.450	2.00					
837	58.520	2.00					
838	58.590	2.00					
839	58.660	2.00					
840	58.730	2.00					
841	58.800	2.00					
842	58.870	2.00					
843	58.940	2.00					
844	59.010	2.00					
845	59.080	2.00					
846	59.150	2.00					
847	59.220	2.00					
848	59.290	2.00					
849	59.360	2.00					

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs E3)	Station 2 Discharge QC(K,2) (cfs E3)	Station 3 Discharge QC(K,3) (cfs E3)	Station 4 Discharge QC(K,4) (cfs E3)	Station 5 Discharge QC(K,5) (cfs E3)	Station 6 Discharge QC(K,6) (cfs E3)
850	59.430	2.00					
851	59.500	2.00					
852	59.570	2.00					
853	59.640	2.00					
854	59.710	2.00					
855	59.780	2.00					
856	59.850	2.00					
857	59.920	2.00					
858	59.990	2.00					
859	60.060	2.00					
860	60.130	2.00					
861	60.200	2.00					
862	60.270	2.00					
863	60.340	2.00					
864	60.410	2.00					
865	60.480	2.00					
866	60.550	2.00					
867	60.620	2.00					
868	60.690	2.00					
869	60.760	2.00					
870	60.830	2.00					
871	60.900	2.00					
872	60.970	2.00					
873	61.040	2.00					
874	61.110	2.00					
875	61.180	2.00					
876	61.250	2.00					
877	61.320	2.00					
878	61.390	2.00					
879	61.460	2.00					
880	61.530	2.00					
881	61.600	2.00					
882	61.670	2.00					
883	61.740	2.00					
884	61.810	2.00					
885	61.880	2.00					
886	61.950	2.00					
887	62.020	2.00					
888	62.090	2.00					
889	62.160	2.00					
890	62.230	2.00					
891	62.300	2.00					
892	62.370	2.00					
893	62.440	2.00					
894	62.510	2.00					
895	62.580	2.00					
896	62.650	2.00					
897	62.720	2.00					
898	62.790	2.00					
899	62.860	2.00					

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs E3)	Station 2 Discharge QC(K,2) (cfs E3)	Station 3 Discharge QC(K,3) (cfs E3)	Station 4 Discharge QC(K,4) (cfs E3)	Station 5 Discharge QC(K,5) (cfs E3)	Station 6 Discharge QC(K,6) (cfs E3)
900	62.930	2.00					
901	63.000	2.00					
902	63.070	2.00					
903	63.140	2.00					
904	63.210	2.00					
905	63.280	2.00					
906	63.350	2.00					
907	63.420	2.00					
908	63.490	2.00					
909	63.560	2.00					
910	63.630	2.00					
911	63.700	2.00					
912	63.770	2.00					
913	63.840	2.00					
914	63.910	2.00					
915	63.980	2.00					
916	64.050	2.00					
917	64.120	2.00					
918	64.190	2.00					
919	64.260	2.00					
920	64.330	2.00					
921	64.400	2.00					
922	64.470	2.00					
923	64.540	2.00					
924	64.610	2.00					
925	64.680	2.00					
926	64.750	2.00					
927	64.820	2.00					
928	64.890	2.00					
929	64.960	2.00					
930	65.030	2.00					
931	65.100	2.00					
932	65.170	2.00					
933	65.240	2.00					
934	65.310	2.00					
935	65.380	2.00					
936	65.450	2.00					
937	65.520	2.00					
938	65.590	2.00					
939	65.660	2.00					
940	65.730	2.00					
941	65.800	2.00					
942	65.870	2.00					
943	65.940	2.00					
944	66.010	2.00					
945	66.080	2.00					
946	66.150	2.00					
947	66.220	2.00					
948	66.290	2.00					
949	66.360	2.00					

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs E3)	Station 2 Discharge QC(K,2) (cfs E3)	Station 3 Discharge QC(K,3) (cfs E3)	Station 4 Discharge QC(K,4) (cfs E3)	Station 5 Discharge QC(K,5) (cfs E3)	Station 6 Discharge QC(K,6) (cfs E3)
950	66.430	2.00					
951	66.500	2.00					
952	66.570	2.00					
953	66.640	2.00					
954	66.710	2.00					
955	66.780	2.00					
956	66.850	2.00					
957	66.920	2.00					
958	66.990	2.00					
959	67.060	2.00					
960	67.130	2.00					
961	67.200	2.00					
962	67.270	2.00					
963	67.340	2.00					
964	67.410	2.00					
965	67.480	2.00					
966	67.550	2.00					
967	67.620	2.00					
968	67.690	2.00					
969	67.760	2.00					
970	67.830	2.00					
971	67.900	2.00					
972	67.970	2.00					
973	68.040	2.00					
974	68.110	2.00					
975	68.180	2.00					
976	68.250	2.00					
977	68.320	2.00					
978	68.390	2.00					
979	68.460	2.00					
980	68.530	2.00					
981	68.600	2.00					
982	68.670	2.00					
983	68.740	2.00					
984	68.810	2.00					
985	68.880	2.00					
986	68.950	2.00					
987	69.020	2.00					
988	69.090	2.00					
989	69.160	2.00					
990	69.230	2.00					
991	69.300	2.00					
992	69.370	2.00					
993	69.440	2.00					
994	69.510	2.00					
995	69.580	2.00					
996	69.650	2.00					
997	69.720	2.00					
998	69.790	2.00					
999	69.860	2.00					

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs E3)	Station 2 Discharge QC(K,2) (cfs E3)	Station 3 Discharge QC(K,3) (cfs E3)	Station 4 Discharge QC(K,4) (cfs E3)	Station 5 Discharge QC(K,5) (cfs E3)	Station 6 Discharge QC(K,6) (cfs E3)
1000	69.930	2.00					
1001	70.000	2.00					
1002	70.070	2.00					
1003	70.140	2.00					
1004	70.210	2.00					
1005	70.280	2.00					
1006	70.350	2.00					
1007	70.420	2.00					
1008	70.490	2.00					
1009	70.560	2.00					
1010	70.630	2.00					
1011	70.700	2.00					
1012	70.770	2.00					
1013	70.840	2.00					
1014	70.910	2.00					
1015	70.980	2.00					
1016	71.050	2.00					
1017	71.120	2.00					
1018	71.190	2.00					
1019	71.260	2.00					
1020	71.330	2.00					
1021	71.400	2.00					
1022	71.470	2.00					
1023	71.540	2.00					
1024	71.610	2.00					
1025	71.680	2.00					
1026	71.750	2.00					
1027	71.820	2.00					
1028	71.890	2.00					
1029	71.960	2.00					
1030	72.030	2.00					
1031	72.100	2.00					
1032	72.170	2.00					
1033	72.240	2.00					
1034	72.310	2.00					
1035	72.380	2.00					
1036	72.450	2.00					
1037	72.520	2.00					
1038	72.590	2.00					
1039	72.660	2.00					
1040	72.730	2.00					
1041	72.800	2.00					
1042	72.870	2.00					
1043	72.940	2.00					
1044	73.010	2.00					
1045	73.080	2.00					
1046	73.150	2.00					
1047	73.220	2.00					
1048	73.290	2.00					
1049	73.360	2.00					

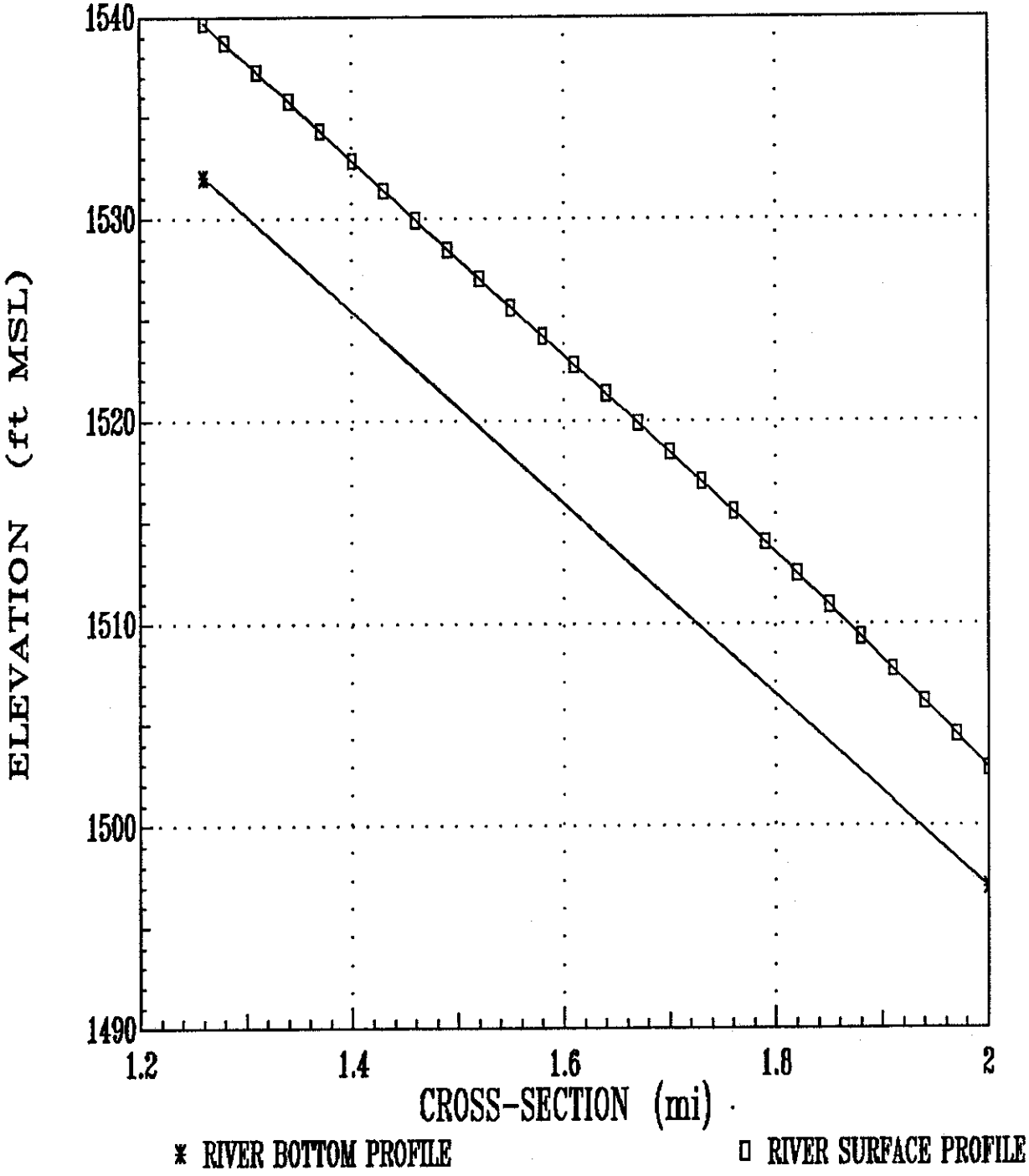
Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs E3)	Station 2 Discharge QC(K,2) (cfs E3)	Station 3 Discharge QC(K,3) (cfs E3)	Station 4 Discharge QC(K,4) (cfs E3)	Station 5 Discharge QC(K,5) (cfs E3)	Station 6 Discharge QC(K,6) (cfs E3)
1050	73.430	2.00					
1051	73.500	2.00					
1052	73.570	2.00					
1053	73.640	2.00					
1054	73.710	2.00					
1055	73.780	2.00					
1056	73.850	2.00					
1057	73.920	2.00					
1058	73.990	2.00					
1059	74.060	2.00					
1060	74.130	2.00					
1061	74.200	2.00					
1062	74.270	2.00					
1063	74.340	2.00					
1064	74.410	2.00					
1065	74.480	2.00					
1066	74.550	2.00					
1067	74.620	2.00					
1068	74.690	2.00					
1069	74.760	2.00					
1070	74.830	2.00					
1071	74.900	2.00					
1072	74.970	2.00					
1073	75.040	2.00					
1074	75.110	2.00					
1075	75.180	2.00					
1076	75.250	2.00					
1077	75.320	2.00					
1078	75.390	2.00					
1079	75.460	2.00					
1080	75.530	2.00					
1081	75.600	2.00					
1082	75.670	2.00					
1083	75.740	2.00					
1084	75.810	2.00					
1085	75.880	2.00					
1086	75.950	2.00					
1087	76.020	2.00					
1088	76.090	2.00					
1089	76.160	2.00					
1090	76.230	2.00					
1091	76.300	2.00					
1092	76.370	2.00					
1093	76.440	2.00					
1094	76.510	2.00					
1095	76.580	2.00					
1096	76.650	2.00					
1097	76.720	2.00					
1098	76.790	2.00					
1099	76.860	2.00					

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs E3)	Station 2 Discharge QC(K,2) (cfs E3)	Station 3 Discharge QC(K,3) (cfs E3)	Station 4 Discharge QC(K,4) (cfs E3)	Station 5 Discharge QC(K,5) (cfs E3)	Station 6 Discharge QC(K,6) (cfs E3)
1100	76.930	2.00					
1101	77.000	2.00					
1102	77.070	2.00					
1103	77.140	2.00					
1104	77.210	2.00					
1105	77.280	2.00					
1106	77.350	2.00					
1107	77.420	2.00					
1108	77.490	2.00					
1109	77.560	2.00					
1110	77.630	2.00					
1111	77.700	2.00					
1112	77.770	2.00					
1113	77.840	2.00					
1114	77.910	2.00					
1115	77.980	2.00					
1116	78.050	2.00					
1117	78.120	2.00					
1118	78.190	2.00					
1119	78.260	2.00					
1120	78.330	2.00					
1121	78.400	2.00					
1122	78.470	2.00					
1123	78.540	2.00					
1124	78.610	2.00					
1125	78.680	2.00					
1126	78.750	2.00					
1127	78.820	2.00					
1128	78.890	2.00					
1129	78.960	2.00					
1130	79.030	2.00					
1131	79.100	2.00					
1132	79.170	2.00					
1133	79.240	2.00					
1134	79.310	2.00					
1135	79.380	2.00					
1136	79.450	2.00					
1137	79.520	2.00					
1138	79.590	2.00					
1139	79.660	2.00					
1140	79.730	2.00					
1141	79.800	2.00					
1142	79.870	2.00					

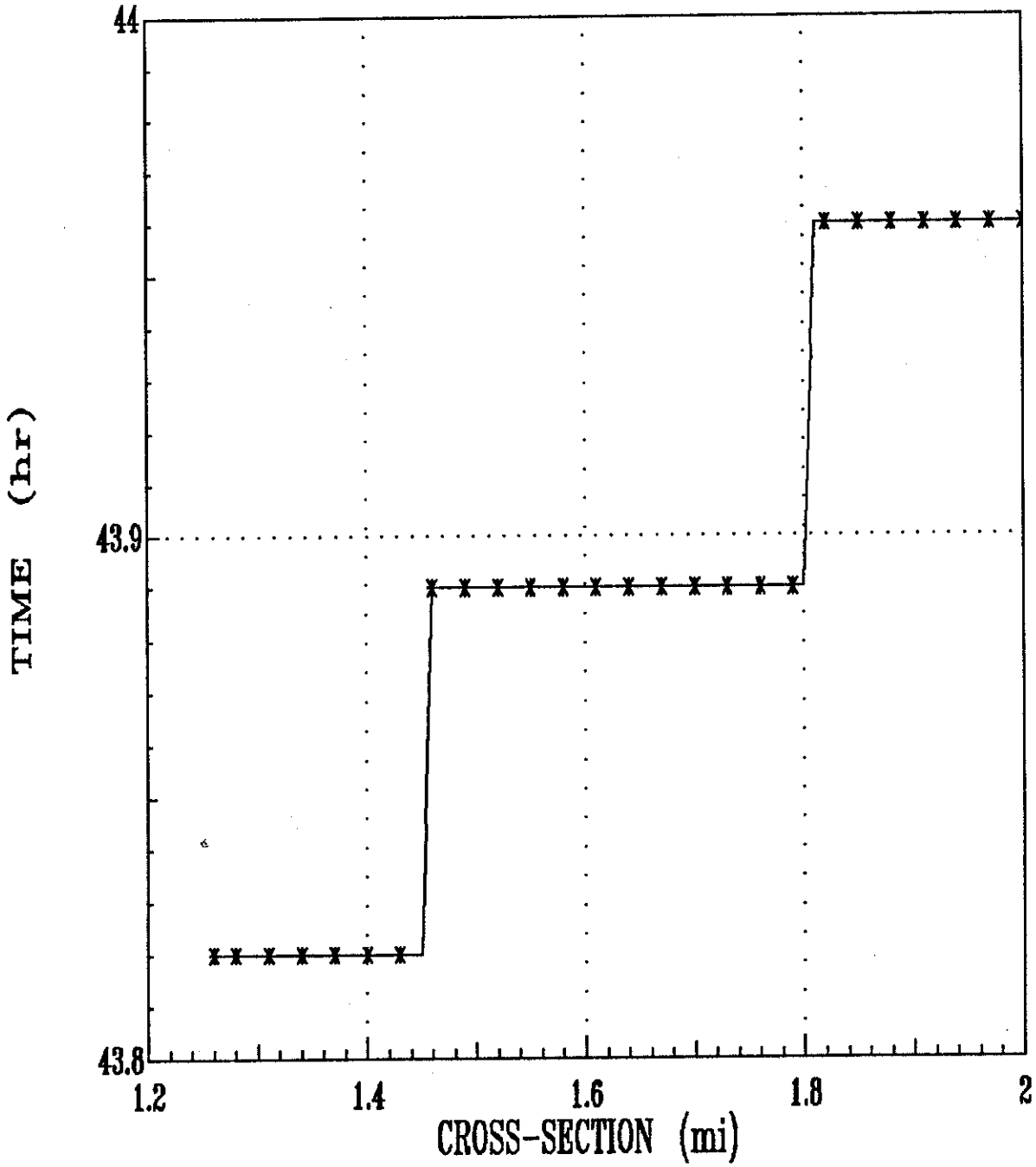
END OF OUTPUT

FLOOD CREST SUMMARY

RIVER BOTTOM & PEAK WATER SURFACE PROFILE



TIME TO PEAK PROFILE



Run #3
(From Section #4S through #11)

B O S S D A M B R K (tm)

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Version : 2.00
Serial Number : 0010361.200

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PROGRAM ORIGIN :

Boss DamBrk (tm) is an enhanced version of Professor D. L. Fread's 1988 NWS DAMBRK program.

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PROJECT DESCRIPTION :

PROJECT TITLE : 72-HR Q=306,918 FLOW SOUTH
PROJECT NUMBER : 8851485F
DESCRIPTION : CAVE BUTTES DAM DAMBREAK ANALYSIS
ENGINEER : SFR
DATE OF RUN : 2/18/1990
TIME OF RUN : 9:08 am

INPUT DATA SUMMARY :

INPUT CONTROL PARAMETERS :

Number of Dynamic Routing Reaches (KKN)	9	
Type of Reservoir Routing (KUI)	0	(storage routing)
Number of multiple dams/bridges (MULDAM)	0	
No. of Reservoir Inflow Hydrograph Points (ITEH)	12	
No. of Informational Cross-Sections (NPRT)	0	
Flood-Plain Routing (KFLP)	0	(no)

Hydrograph Time Intervals (DHF, hr)	.00
Routing Period (TEH, hr)	80.00
Breach Development Exponent (BREX)	1.00
Mud/Debris Flow Parameter (MUD)	0
Dry Bed Routing Parameter (IWF)	0
Hydraulic Radius Computation Parameter (KPRES)	1

Time Elapsed TI(K) (hr)	Upstream Inflow QI(K) (cfs)
.00	3000.0
39.90	3000.0
42.00	6132.0
42.50	66608.0
43.70	306918.0
45.00	216922.0
47.00	90769.0
48.90	45827.0
51.30	24483.0
53.40	11028.0
55.20	7009.0
80.00	3021.0

SUMMARY OF PROGRAM CONTROL PARAMETERS :

Number of Cross-Sections Entered (NS)	8	
Number of Top Widths Entered (NCS)	8	
Number of Cross-Sectional Hydrographs to Plot (NTT)	4	
Cross-Sectional Smoothing Parameter (KSA)	0	
Downstream Supercritical Parameter (KSUPC)	0	(subcritical)
Landslide Simulation (KSL)	0	(no)
Number of Lateral Inflow Hydrographs (LQ)	1	
Number of Points in Gate Control Curve (KCG)	0	

CROSS-SECTIONS WHERE HYDROGRAPH REQUESTED :
(maximum allowed = 6)

1 4 7 8

CHANNEL-VALLEY BOUNDARY CONDITIONS :

Max Discharge at Downstream End (QMAXD, cfs)	.0
Max Lateral Outflow due to Flood Wave (QLL, cfs/ft)	.0000
Initial Time-Step Size (DTHM, hr)	.0700
Time at which Dam Starts to Fail (TFI, hr)	.0000
Theta Weighting Factor (F1I)	.000
Stage Convergence Criterion (EPSY, ft)	.100
Initial Downstream Water Surface Elevation (YDN, ft MSL)	.00
Slope of Channel Downstream of Dam (SOM, ft/mi)	30.0000

CROSS-SECTION NUMBER : 1 SECTION 4S

Cross-Section Location (XS(I), mi)	1.090
Flooding Elevation (FSTG(I), ft MSL)	1532.000
Initial Water Surface Elevation (YD, ft MSL)	.000

DOWNSTREAM REACH NUMBER : 1

Reach Contraction-Expansion Coefficient (FKC)	.000
Minimum Distance Between Interpolated Cross-Sections (DXM, mi)	.060

CROSS-SECTION and REACH DESCRIPTION :

Elevation HS(K,I) (ft MSL)	Channel Top Width BS(K,I) (ft)	Channel Manning n CM(K,I)	Storage Top Width BSS(K,I) (ft)	Left Top Width BSL(K,I) (ft)	Left Manning n CML(K,I)	Right Top Width BSR(K,I) (ft)	Right Manning n CMR(K,I)
1526.00	.0	.0500	.0	.0	.0000	.0	.0000
1530.00	300.0	.0500	.0	.0	.0000	.0	.0000
1540.00	1200.0	.0500	.0	.0	.0000	.0	.0000
1600.00	1400.0	.0700	.0	.0	.0000	.0	.0000
1640.00	1600.0	.0700	.0	.0	.0000	.0	.0000
1700.00	1900.0	.0700	.0	.0	.0000	.0	.0000
1740.00	2050.0	.0700	.0	.0	.0000	.0	.0000
1800.00	2300.0	.0700	.0	.0	.0000	.0	.0000

CROSS-SECTION NUMBER : 2 SECTION 5

Cross-Section Location (XS(I), mi) 1.510

Flooding Elevation (FSTG(I), ft MSL) 1519.000

Initial Water Surface Elevation (YD, ft MSL) .000

DOWNSTREAM REACH NUMBER : 2

Reach Contraction-Expansion Coefficient (FKC) -.800

Minimum Distance Between Interpolated Cross-Sections (DXM, mi) .030

CROSS-SECTION and REACH DESCRIPTION :

Elevation HS(K,I) (ft MSL)	Channel Top Width BS(K,I) (ft)	Channel Manning n CM(K,I)	Storage Top Width BSS(K,I) (ft)	Left Top Width BSL(K,I) (ft)	Left Manning n CML(K,I)	Right Top Width BSR(K,I) (ft)	Right Manning n CMR(K,I)
1513.00	.0	.0500	.0	.0	.0000	.0	.0000
1520.00	750.0	.0500	.0	.0	.0000	.0	.0000
1540.00	1550.0	.0500	.0	.0	.0000	.0	.0000
1600.00	2000.0	.0700	.0	.0	.0000	.0	.0000
1640.00	2180.0	.0700	.0	.0	.0000	.0	.0000
1660.00	2250.0	.0700	.0	.0	.0000	.0	.0000
1680.00	2400.0	.0700	.0	.0	.0000	.0	.0000
1700.00	2500.0	.0700	.0	.0	.0000	.0	.0000

CROSS-SECTION NUMBER : 3 SECTION 6

Cross-Section Location (XS(I), mi)	1.830
Flooding Elevation (FSTG(I), ft MSL)	1506.000
Initial Water Surface Elevation (YD, ft MSL)	.000

DOWNSTREAM REACH NUMBER : 3

Reach Contraction-Expansion Coefficient (FKC)	.000
Minimum Distance Between Interpolated Cross-Sections (DXM, mi)	.020

CROSS-SECTION and REACH DESCRIPTION :

Elevation HS(K,I) (ft MSL)	Channel Top Width BS(K,I) (ft)	Channel Manning n CM(K,I)	Storage Top Width BSS(K,I) (ft)	Left Top Width BSL(K,I) (ft)	Left Manning n CML(K,I)	Right Top Width BSR(K,I) (ft)	Right Manning n CMR(K,I)
1500.00	.0	.0500	.0	.0	.0000	.0	.0000
1505.00	950.0	.0500	.0	.0	.0000	.0	.0000
1510.00	1900.0	.0500	.0	.0	.0000	.0	.0000
1520.00	3800.0	.0700	.0	.0	.0000	.0	.0000
1580.00	4275.0	.0700	.0	.0	.0000	.0	.0000
1600.00	4500.0	.0700	.0	.0	.0000	.0	.0000
1620.00	4600.0	.0700	.0	.0	.0000	.0	.0000
1660.00	4850.0	.0700	.0	.0	.0000	.0	.0000

CROSS-SECTION NUMBER : 4 SECTION 7

Cross-Section Location (XS(I), mi) 2.060

Flooding Elevation (FSTG(I), ft MSL) 1496.000

Initial Water Surface Elevation (YD, ft MSL) .000

DOWNSTREAM REACH NUMBER : 4

Reach Contraction-Expansion Coefficient (FKC) .000

Minimum Distance Between Interpolated Cross-Sections (DXM, mi) .050

CROSS-SECTION and REACH DESCRIPTION :

Elevation HS(K,I) (ft MSL)	Channel Top Width BS(K,I) (ft)	Channel Manning n CM(K,I)	Storage Top Width BSS(K,I) (ft)	Left Top Width BSL(K,I) (ft)	Left Manning n CML(K,I)	Right Top Width BSR(K,I) (ft)	Right Manning n CMR(K,I)
1490.00	.0	.0500	.0	.0	.0000	.0	.0000
1492.50	600.0	.0500	.0	.0	.0000	.0	.0000
1495.00	1200.0	.0500	.0	.0	.0000	.0	.0000
1500.00	2400.0	.0500	.0	.0	.0000	.0	.0000
1510.00	3750.0	.0700	.0	.0	.0000	.0	.0000
1520.00	4050.0	.0700	.0	.0	.0000	.0	.0000
1525.00	4200.0	.0700	.0	.0	.0000	.0	.0000
1530.00	4350.0	.0700	.0	.0	.0000	.0	.0000

CROSS-SECTION NUMBER : 5 SECTION 8S

Cross-Section Location (XS(I), mi) 2.290

Flooding Elevation (FSTG(I), ft MSL) 1486.000

Initial Water Surface Elevation (YD, ft MSL) .000

DOWNSTREAM REACH NUMBER : 5

Reach Contraction-Expansion Coefficient (FKC) -1.000

Minimum Distance Between Interpolated Cross-Sections (DXM, mi) .010

CROSS-SECTION and REACH DESCRIPTION :

Elevation HS(K,I) (ft MSL)	Channel Top Width BS(K,I) (ft)	Channel Manning n CM(K,I)	Storage Top Width BSS(K,I) (ft)	Left Top Width BSL(K,I) (ft)	Left Manning n CML(K,I)	Right Top Width BSR(K,I) (ft)	Right Manning n CMR(K,I)
1480.00	.0	.0500	.0	.0	.0000	.0	.0000
1485.00	895.0	.0500	.0	.0	.0000	.0	.0000
1490.00	1790.0	.0500	.0	.0	.0000	.0	.0000
1500.00	3025.0	.0500	.0	.0	.0000	.0	.0000
1540.00	4100.0	.0700	.0	.0	.0000	.0	.0000
1560.00	4250.0	.0700	.0	.0	.0000	.0	.0000
1580.00	4350.0	.0700	.0	.0	.0000	.0	.0000
1600.00	4500.0	.0700	.0	.0	.0000	.0	.0000

CROSS-SECTION NUMBER : 6 SECTION 9

Cross-Section Location (XS(I), mi)	2.520
Flooding Elevation (FSTG(I), ft MSL)	1482.000
Initial Water Surface Elevation (YD, ft MSL)	.000

DOWNSTREAM REACH NUMBER : 6

Reach Contraction-Expansion Coefficient (FKC)	-.100
Minimum Distance Between Interpolated Cross-Sections (DXM, mi)	.010

CROSS-SECTION and REACH DESCRIPTION :

Elevation HS(K,I) (ft MSL)	Channel Top Width BS(K,I) (ft)	Channel Manning n CM(K,I)	Storage Top Width BSS(K,I) (ft)	Left Top Width BSL(K,I) (ft)	Left Manning n CML(K,I)	Right Top Width BSR(K,I) (ft)	Right Manning n CMR(K,I)
1473.00	.0	.0700	.0	.0	.0000	.0	.0000
1480.00	200.0	.0700	.0	.0	.0000	.0	.0000
1480.50	800.0	.0700	.0	.0	.0000	.0	.0000
1481.00	3700.0	.0900	.0	.0	.0000	.0	.0000
1484.00	7600.0	.0900	.0	.0	.0000	.0	.0000
1490.00	10200.0	.0900	.0	.0	.0000	.0	.0000
1495.00	12050.0	.0900	.0	.0	.0000	.0	.0000
1500.00	13900.0	.0900	.0	.0	.0000	.0	.0000

CROSS-SECTION NUMBER : 7 SECTION 10

Cross-Section Location (XS(I), mi) 2.980

Flooding Elevation (FSTG(I), ft MSL) 1474.000

Initial Water Surface Elevation (YD, ft MSL) .000

DOWNSTREAM REACH NUMBER : 7

Reach Contraction-Expansion Coefficient (FKC) -.100

Minimum Distance Between Interpolated Cross-Sections (DXM, mi) .010

CROSS-SECTION and REACH DESCRIPTION :

Elevation HS(K,I) (ft MSL)	Channel Top Width BS(K,I) (ft)	Channel Manning n CM(K,I)	Storage Top Width BSS(K,I) (ft)	Left Top Width BSL(K,I) (ft)	Left Manning n CML(K,I)	Right Top Width BSR(K,I) (ft)	Right Manning n CMR(K,I)
1458.00	.0	.0700	.0	.0	.0000	.0	.0000
1460.00	150.0	.0800	.0	.0	.0000	.0	.0000
1462.00	640.0	.0800	.0	.0	.0000	.0	.0000
1468.00	2110.0	.0900	.0	.0	.0000	.0	.0000
1470.00	2600.0	.0900	.0	.0	.0000	.0	.0000
1471.50	3300.0	.0900	.0	.0	.0000	.0	.0000
1472.00	11200.0	.0900	.0	.0	.0000	.0	.0000
1480.00	14400.0	.0900	.0	.0	.0000	.0	.0000

CROSS-SECTION NUMBER : 8 SECTION 11

Cross-Section Location (XS(I), mi)	3.230
Flooding Elevation (FSTG(I), ft MSL)	1462.000
Initial Water Surface Elevation (YD, ft MSL)	.000

CROSS-SECTION DESCRIPTION :

Elevation HS(K,I) (ft MSL)	Channel Top Width BS(K,I) (ft)	Storage Top Width BSS(K,I) (ft)	Left Top Width BSL(K,I) (ft)	Right Top Width BSR(K,I) (ft)
1450.00	.0	.0	.0	.0
1454.00	500.0	.0	.0	.0
1458.00	1300.0	.0	.0	.0
1460.00	4000.0	.0	.0	.0
1462.00	8800.0	.0	.0	.0
1465.00	12700.0	.0	.0	.0
1466.00	17900.0	.0	.0	.0
1470.00	19100.0	.0	.0	.0

WARNING: At cross-section reach 1 the distance between interpolated cross-sections (DXM) should be changed to .060 due to expansion/contraction criteria

WARNING: At cross-section reach 3 the distance between interpolated cross-sections (DXM) should be changed to .019 due to expansion/contraction criteria

WARNING: At cross-section reach 4 the distance between interpolated cross-sections (DXM) should be changed to .033 due to expansion/contraction criteria

WARNING: At cross-section reach 5 the distance between interpolated cross-sections (DXM) should be changed to .008 due to expansion/contraction criteria

DISTANCE BETWEEN INTERPOLATED CROSS-SECTIONS
(DXM) THAT WILL BE USED IN COMPUTATIONS :

Down Stream Reach Number I=1,NS1	Interp. Cross Section Distance DXM(I) (mi)
1	.0600
2	.0300
3	.0200
4	.0500
5	.0100
6	.0100
7	.0100

LATERAL INFLOW REACH NUMBER

LQX(I)

5

(QL(L, 1),L=1,ITEH)

0.	2040.	2040.	2040.	45125.	24090.	6770.	2100.
2040.	2040.	2040.	2040.				

Total number of cross-sections (original+interpolated) 127

Maximum number of cross-sections allowed 300

OUTPUT DATA SUMMARY :

CROSS-SECTION and REACH SUMMARY :

Cross Section Number	Cross Section Location (mi)	Bottom Elevation (ft MSL)	Reach Number	Reach Length (mi)	Reach Slope (ft/mi)
1	1.090	1526.000			
2	1.510	1513.000	1	.420	30.952
3	1.830	1500.000	2	.320	40.625
4	2.060	1490.000	3	.230	43.478
5	2.290	1480.000	4	.230	43.478
6	2.520	1473.000	5	.230	30.435
7	2.980	1458.000	6	.460	32.609
8	3.230	1450.000	7	.250	32.000

SLOPE INFORMATION FOR CROSS-SECTION REACHES :

Reach Number Section I	Water Surface Elevation YO (ft MSL)	Hydraulic Depth DA (ft)	Reach Bottom Slope SO (ft/m)	Dynamic Slope DS (ft/m)	Total Slope SOT (ft/m)	Critical Slope SC (ft/m)	Manning n CMN
1	1519.50	1.54	30.95	.01	30.97	166.85	.050
1	1525.00	3.07	30.95	.02	30.97	132.43	.050
1	1540.00	12.26	30.95	.03	30.98	83.48	.050
1	1600.00	64.18	30.95	.07	31.02	94.23	.070
1	1640.00	95.72	30.95	.08	31.03	82.48	.070
1	1680.00	123.16	30.95	.09	31.04	75.83	.070
1	1710.00	143.06	30.95	.09	31.05	72.14	.070
1	1750.00	170.03	30.95	.10	31.05	68.11	.070
2	1506.50	1.47	40.62	.01	40.64	169.28	.050
2	1512.50	2.94	40.62	.02	40.64	134.36	.050
2	1525.00	10.18	40.62	.02	40.65	88.82	.050
2	1560.00	29.33	40.62	.04	40.67	82.49	.057
2	1610.00	76.84	40.62	.07	40.69	88.75	.070
2	1630.00	93.04	40.62	.07	40.70	83.26	.070
2	1650.00	109.36	40.62	.08	40.70	78.90	.070
2	1680.00	136.53	40.62	.08	40.71	73.27	.070
3	1495.00	1.01	43.48	.01	43.49	191.99	.050
3	1498.75	2.02	43.48	.01	43.49	152.38	.050
3	1502.50	4.03	43.48	.02	43.50	120.94	.050
3	1510.00	8.06	43.48	.02	43.50	101.43	.051
3	1545.00	40.25	43.48	.05	43.53	110.10	.070
3	1560.00	52.60	43.48	.06	43.54	100.70	.070
3	1572.50	63.79	43.48	.06	43.54	94.43	.070
3	1595.00	83.89	43.48	.07	43.55	86.19	.070
4	1485.00	1.00	43.48	.01	43.49	192.55	.050
4	1488.75	2.00	43.48	.01	43.49	152.83	.050
4	1492.50	4.00	43.48	.02	43.50	121.30	.050
4	1500.00	8.30	43.48	.02	43.50	95.08	.050
4	1525.00	27.81	43.48	.04	43.52	124.54	.070
4	1540.00	41.06	43.48	.05	43.53	109.37	.070
4	1552.50	52.33	43.48	.06	43.53	100.87	.070
4	1565.00	62.97	43.48	.06	43.54	94.84	.070
5	1476.50	1.34	30.43	.01	30.45	174.55	.050
5	1482.50	2.68	30.43	.02	30.45	138.54	.050
5	1485.25	3.82	30.43	.02	30.45	123.12	.050
5	1490.50	5.22	30.43	.02	30.46	110.98	.050
5	1512.00	16.63	30.43	.04	30.47	95.74	.056
5	1525.00	22.94	30.43	.04	30.48	107.45	.063
5	1537.50	28.85	30.43	.05	30.49	120.73	.069
5	1550.00	34.05	30.43	.06	30.49	116.41	.070
6	1465.50	1.21	32.61	.02	32.63	353.65	.070
6	1470.00	2.43	32.61	.02	32.63	280.70	.070
6	1471.25	1.31	32.61	.02	32.63	344.60	.070
6	1474.50	1.94	32.61	.02	32.63	302.58	.070
6	1477.00	3.23	32.61	.02	32.63	255.30	.070
6	1480.75	6.72	32.61	.04	32.65	302.58	.086
6	1483.50	6.45	32.61	.04	32.65	335.03	.090
6	1490.00	11.21	32.61	.05	32.65	278.67	.090
7	1454.00	.88	32.00	.02	32.02	393.04	.070
7	1457.00	1.77	32.00	.02	32.02	311.96	.070
7	1460.00	2.86	32.00	.03	32.03	347.35	.080
7	1464.00	3.12	32.00	.03	32.03	367.35	.084
7	1466.00	3.21	32.00	.03	32.03	394.08	.087
7	1468.25	4.58	32.00	.03	32.03	375.58	.090
7	1469.00	3.17	32.00	.03	32.03	424.65	.090
7	1475.00	8.02	32.00	.04	32.04	311.62	.090

Number of Intermediate Cross-Sections (NN(NS)) 127

Number of Time Steps (NNU) 12

INITIAL CONDITIONS TABLE :

Cross Section Number I	Cross Section Location XI (mi)	Normal Flow Water Elevation YN (ft MSL)	Normal Flow Depth DEPN (ft)	Critical Flow Water Elevation YC (ft MSL)	Critical Flow Depth DEPC (ft)	Froude Indicator (0 = sub) (1 = sup) IFR	Iteration Count for Computing Nrml Dpth ITN
1	1.090	1530.54	4.54	1529.30	3.30	0	14
2	1.150	1528.51	4.37	1527.33	3.18	0	14
3	1.210	1526.54	4.25	1525.38	3.09	0	14
4	1.270	1524.58	4.15	1523.47	3.04	0	14
5	1.330	1522.66	4.09	1521.55	2.98	0	14
6	1.390	1520.76	4.04	1519.66	2.94	0	14
7	1.450	1518.84	3.99	1517.76	2.90	0	14
8	1.510	1516.75	3.75	1515.87	2.87	0	14
9	1.542	1515.37	3.67	1514.51	2.81	0	14
10	1.574	1514.00	3.60	1513.14	2.74	0	14
11	1.606	1512.62	3.52	1511.78	2.68	0	14
12	1.638	1511.25	3.45	1510.43	2.63	0	14
13	1.670	1509.88	3.38	1509.07	2.57	0	14
14	1.702	1508.51	3.31	1507.71	2.51	0	14
15	1.734	1507.14	3.24	1506.35	2.45	0	14
16	1.766	1505.76	3.16	1505.00	2.40	0	14
17	1.798	1504.39	3.09	1503.64	2.34	0	14
18	1.830	1503.00	3.00	1502.28	2.28	0	13
19	1.851	1502.07	2.98	1501.36	2.27	0	13
20	1.872	1501.14	2.96	1500.43	2.25	0	13
21	1.893	1500.22	2.94	1499.52	2.25	0	13
22	1.914	1499.28	2.92	1498.60	2.24	0	13
23	1.935	1498.36	2.90	1497.68	2.22	0	13
24	1.955	1497.43	2.88	1496.74	2.20	0	13
25	1.976	1496.50	2.86	1495.82	2.18	0	13
26	1.997	1495.56	2.83	1494.88	2.16	0	12
27	2.018	1494.62	2.80	1493.95	2.14	0	12
28	2.039	1493.69	2.78	1493.02	2.11	0	12
29	2.060	1492.74	2.74	1492.08	2.08	0	11
30	2.117	1490.35	2.85	1489.68	2.18	0	12
31	2.175	1487.94	2.94	1487.24	2.24	0	12
32	2.232	1485.50	3.00	1484.79	2.29	0	13
33	2.290	1483.27	3.27	1482.34	2.34	0	13
34	2.300	1483.03	3.33	1482.08	2.39	0	13
35	2.310	1482.79	3.39	1481.83	2.44	0	13
36	2.320	1482.56	3.47	1481.58	2.50	0	13
37	2.330	1482.32	3.54	1481.32	2.54	0	13
38	2.340	1482.09	3.61	1481.08	2.60	0	13
39	2.350	1481.86	3.69	1480.83	2.66	0	13
40	2.360	1481.65	3.78	1480.60	2.73	0	13
41	2.370	1481.42	3.86	1480.36	2.80	0	13
42	2.380	1481.22	3.95	1480.12	2.86	0	13
43	2.390	1481.01	4.05	1479.90	2.94	0	12
44	2.400	1480.81	4.16	1479.67	3.01	0	12
45	2.410	1480.61	4.27	1479.45	3.10	0	12
46	2.420	1480.43	4.39	1479.25	3.20	0	12
47	2.430	1480.25	4.51	1479.03	3.29	0	12
48	2.440	1480.08	4.64	1478.83	3.40	0	12
49	2.450	1479.93	4.80	1478.65	3.52	0	12

Cross Section Number I	Cross Section Location XI (mi)	Normal Flow Water Elevation YN (ft MSL)	Normal Flow Depth DEPN (ft)	Critical Flow Water Elevation YC (ft MSL)	Critical Flow Depth DEPC (ft)	Froude Indicator (0 = sub) (1 = sup) IFR	Iteration Count for Computing Nrml Dpth ITN
50	2.460	1479.79	4.96	1478.47	3.65	0	12
51	2.470	1479.67	5.15	1478.31	3.79	0	12
52	2.480	1479.57	5.35	1478.16	3.95	0	12
53	2.490	1479.48	5.57	1478.05	4.14	0	11
54	2.500	1479.44	5.83	1477.95	4.34	0	11
55	2.510	1479.45	6.15	1477.89	4.59	0	11
56	2.520	1479.43	6.43	1477.87	4.87	0	11
57	2.530	1480.85	8.17	1477.53	4.85	0	11
58	2.540	1480.49	8.14	1477.18	4.83	0	11
59	2.550	1480.12	8.09	1476.83	4.81	0	11
60	2.560	1479.71	8.01	1476.49	4.79	0	11
61	2.570	1479.29	7.93	1476.14	4.77	0	11
62	2.580	1478.88	7.84	1475.78	4.74	0	11
63	2.590	1478.48	7.76	1475.44	4.72	0	11
64	2.600	1478.07	7.67	1475.09	4.70	0	11
65	2.610	1477.66	7.59	1474.75	4.68	0	11
66	2.620	1477.25	7.51	1474.39	4.65	0	11
67	2.630	1476.83	7.42	1474.04	4.63	0	11
68	2.640	1476.42	7.33	1473.70	4.61	0	11
69	2.650	1476.00	7.24	1473.34	4.58	0	11
70	2.660	1475.59	7.16	1472.99	4.56	0	11
71	2.670	1475.18	7.07	1472.64	4.53	0	11
72	2.680	1474.77	6.99	1472.29	4.51	0	11
73	2.690	1474.35	6.90	1471.93	4.48	0	11
74	2.700	1473.95	6.82	1471.58	4.44	0	11
75	2.710	1473.53	6.73	1471.23	4.43	0	11
76	2.720	1473.12	6.64	1470.87	4.39	0	11
77	2.730	1472.71	6.56	1470.52	4.36	0	11
78	2.740	1472.30	6.47	1470.16	4.33	0	11
79	2.750	1471.88	6.38	1469.80	4.30	0	11
80	2.760	1471.48	6.31	1469.44	4.27	0	11
81	2.770	1471.07	6.22	1469.37	4.52	0	11
82	2.780	1470.65	6.13	1469.05	4.53	0	11
83	2.790	1470.24	6.05	1468.69	4.49	0	11
84	2.800	1469.84	5.97	1468.31	4.44	0	11
85	2.810	1469.43	5.89	1467.93	4.38	0	11
86	2.820	1469.02	5.80	1467.55	4.33	0	11
87	2.830	1468.61	5.72	1467.15	4.26	0	11
88	2.840	1468.20	5.63	1466.76	4.20	0	11
89	2.850	1467.79	5.55	1466.37	4.13	0	11
90	2.860	1467.38	5.47	1465.97	4.06	0	11
91	2.870	1466.97	5.39	1465.58	3.99	0	11
92	2.880	1466.56	5.30	1465.18	3.92	0	11
93	2.890	1466.16	5.22	1464.78	3.84	0	11
94	2.900	1465.75	5.14	1464.38	3.77	0	11
95	2.910	1465.34	5.06	1463.99	3.71	0	11
96	2.920	1464.94	4.98	1463.58	3.62	0	11
97	2.930	1464.53	4.90	1463.18	3.55	0	11
98	2.940	1464.13	4.83	1462.78	3.48	0	11
99	2.950	1463.71	4.74	1462.39	3.41	0	11

Cross Section Number I	Cross Section Location XI (mi)	Normal Flow Water Elevation YN (ft MSL)	Normal Flow Depth DEPN (ft)	Critical Flow Water Elevation YC (ft MSL)	Critical Flow Depth DEPC (ft)	Froude Indicator (0 = sub) (1 = sup) IFR	Iteration Count for Computing Nrml Dpth ITN
100	2.960	1463.31	4.66	1461.98	3.33	0	11
101	2.970	1462.91	4.58	1461.58	3.25	0	11
102	2.980	1462.52	4.52	1461.17	3.17	0	11
103	2.990	1462.37	4.69	1460.85	3.17	0	11
104	3.000	1462.07	4.71	1460.51	3.15	0	11
105	3.010	1461.75	4.71	1460.18	3.14	0	11
106	3.020	1461.43	4.71	1459.84	3.12	0	11
107	3.030	1461.10	4.70	1459.50	3.10	0	11
108	3.040	1460.78	4.70	1459.15	3.07	0	11
109	3.050	1460.46	4.70	1458.80	3.04	0	11
110	3.060	1460.14	4.70	1458.45	3.01	0	11
111	3.070	1459.81	4.69	1458.10	2.98	0	11
112	3.080	1459.48	4.68	1457.73	2.93	0	11
113	3.090	1459.16	4.68	1457.37	2.89	0	11
114	3.100	1458.83	4.67	1457.03	2.87	0	11
115	3.110	1458.50	4.66	1456.69	2.85	0	11
116	3.120	1458.17	4.65	1456.35	2.83	0	11
117	3.130	1457.84	4.64	1456.02	2.82	0	11
118	3.140	1457.51	4.63	1455.68	2.80	0	11
119	3.150	1457.17	4.61	1455.35	2.79	0	11
120	3.160	1456.83	4.59	1455.02	2.78	0	11
121	3.170	1456.51	4.58	1454.67	2.75	0	11
122	3.180	1456.17	4.57	1454.34	2.74	0	11
123	3.190	1455.83	4.55	1454.01	2.73	0	11
124	3.200	1455.50	4.54	1453.68	2.72	0	10
125	3.210	1455.16	4.52	1453.37	2.73	0	10
126	3.220	1454.80	4.48	1453.04	2.72	0	10
127	3.230	1454.46	4.46	1452.71	2.71	0	10

SUMMARY OF INITIAL DOWNSTREAM BOUNDARY CONDITIONS :

Cross-section Number at Downstream End of Model (IN)	127
Initial Water Surface Elev. at Downstream End (YNN, ft MSL)	1454.463
Initial Flow Depth at Downstream End (DEP, ft)	4.463

COMPUTED STEP BACKWATER TABLE :

Cross Section Number I	Cross Section Location X (mi)	Flow QIL (cfs)	Backwater Water Surface Elevation YIL (ft MSL)	Backwater Water Depth DEP (ft)	Iteration Count for Computing Backwater ITB
126	3.220	3000.0	1454.790	4.470	4
125	3.210	3000.0	1455.122	4.482	4
124	3.200	3000.0	1455.457	4.497	4
123	3.190	3000.0	1455.794	4.514	4
122	3.180	3000.0	1456.131	4.531	4
121	3.170	3000.0	1456.469	4.549	4
120	3.160	3000.0	1456.806	4.566	4
119	3.150	3000.0	1457.143	4.583	4
118	3.140	3000.0	1457.479	4.599	4
117	3.130	3000.0	1457.813	4.613	5
116	3.120	3000.0	1458.147	4.627	5
115	3.110	3000.0	1458.479	4.640	5
114	3.100	3000.0	1458.812	4.652	5
113	3.090	3000.0	1459.143	4.663	5
112	3.080	3000.0	1459.473	4.673	5
111	3.070	3000.0	1459.801	4.681	5
110	3.060	3000.0	1460.129	4.689	5
109	3.050	3000.0	1460.455	4.695	5
108	3.040	3000.0	1460.779	4.699	5
107	3.030	3000.0	1461.103	4.703	4
106	3.020	3000.0	1461.425	4.705	5
105	3.010	3000.0	1461.749	4.709	5
104	3.000	3000.0	1462.072	4.712	5
103	2.990	3000.0	1462.391	4.711	5
102	2.980	3000.0	1462.705	4.705	5
101	2.970	3000.0	1462.966	4.640	5

Cross Section Number I	Cross Section Location X (mi)	Flow QIL (cfs)	Backwater Water Surface Elevation YIL (ft MSL)	Backwater Water Depth DEP (ft)	Iteration Count for Computing Backwater ITB
100	2.960	3000.0	1463.280	4.628	5
99	2.950	3000.0	1463.634	4.656	5
98	2.940	3000.0	1464.012	4.708	5
97	2.930	3000.0	1464.404	4.774	5
96	2.920	3000.0	1464.804	4.847	5
95	2.910	3000.0	1465.207	4.924	5
94	2.900	3000.0	1465.612	5.003	5
93	2.890	3000.0	1466.018	5.084	5
92	2.880	3000.0	1466.425	5.165	5
91	2.870	3000.0	1466.833	5.246	5
90	2.860	3000.0	1467.240	5.327	5
89	2.850	3000.0	1467.648	5.409	5
88	2.840	3000.0	1468.057	5.491	5
87	2.830	3000.0	1468.465	5.574	5
86	2.820	3000.0	1468.874	5.656	5
85	2.810	3000.0	1469.283	5.739	5
84	2.800	3000.0	1469.692	5.823	5
83	2.790	3000.0	1470.102	5.906	5
82	2.780	3000.0	1470.512	5.990	5
81	2.770	3000.0	1470.922	6.074	5
80	2.760	3000.0	1471.333	6.159	5
79	2.750	3000.0	1471.744	6.244	5
78	2.740	3000.0	1472.155	6.329	5
77	2.730	3000.0	1472.567	6.415	5
76	2.720	3000.0	1472.979	6.501	5
75	2.710	3000.0	1473.392	6.587	5
74	2.700	3000.0	1473.805	6.674	5
73	2.690	3000.0	1474.218	6.761	5
72	2.680	3000.0	1474.632	6.849	5
71	2.670	3000.0	1475.046	6.938	5
70	2.660	3000.0	1475.461	7.026	5
69	2.650	3000.0	1475.876	7.115	5
68	2.640	3000.0	1476.291	7.204	5
67	2.630	3000.0	1476.707	7.294	5
66	2.620	3000.0	1477.123	7.383	5
65	2.610	3000.0	1477.538	7.473	5
64	2.600	3000.0	1477.954	7.563	5
63	2.590	3000.0	1478.370	7.653	5
62	2.580	3000.0	1478.785	7.742	5
61	2.570	3000.0	1479.200	7.830	5
60	2.560	3000.0	1479.614	7.918	5
59	2.550	3000.0	1480.026	8.005	5
58	2.540	3000.0	1480.437	8.089	5
57	2.530	3000.0	1480.823	8.150	5
56	2.520	3000.0	1481.185	8.185	5
55	2.510	3000.0	1481.314	8.010	5
54	2.500	3000.0	1481.497	7.888	5
53	2.490	3000.0	1481.625	7.712	5
52	2.480	3000.0	1481.722	7.504	5
51	2.470	3000.0	1481.806	7.284	5

Cross Section Number I	Cross Section Location X (mi)	Flow QIL (cfs)	Backwater Water Surface Elevation YIL (ft MSL)	Backwater Water Depth DEP (ft)	Iteration Count for Computing Backwater ITB
50	2.460	3000.0	1481.880	7.054	5
49	2.450	3000.0	1481.946	6.815	5
48	2.440	3000.0	1482.005	6.571	5
47	2.430	3000.0	1482.062	6.323	4
46	2.420	3000.0	1482.115	6.072	4
45	2.410	3000.0	1482.171	5.823	4
44	2.400	3000.0	1482.230	5.578	4
43	2.390	3000.0	1482.295	5.339	4
42	2.380	3000.0	1482.367	5.106	4
41	2.370	3000.0	1482.447	4.881	4
40	2.360	3000.0	1482.536	4.667	4
39	2.350	3000.0	1482.638	4.464	4
38	2.340	3000.0	1482.752	4.274	4
37	2.330	3000.0	1482.879	4.097	5
36	2.320	3000.0	1483.022	3.935	5
35	2.310	3000.0	1483.181	3.789	5
34	2.300	3000.0	1483.355	3.660	5
33	2.290	3000.0	1483.545	3.545	5
32	2.232	3000.0	1485.304	2.804	4
31	2.175	3000.0	1488.057	3.057	3
30	2.117	3000.0	1490.329	2.829	4
29	2.060	3000.0	1492.791	2.791	4
28	2.039	3000.0	1493.658	2.749	5
27	2.018	3000.0	1494.611	2.792	4
26	1.997	3000.0	1495.550	2.823	4
25	1.976	3000.0	1496.487	2.850	4
24	1.955	3000.0	1497.421	2.875	4
23	1.935	3000.0	1498.352	2.897	4
22	1.914	3000.0	1499.282	2.918	4
21	1.893	3000.0	1500.209	2.937	4
20	1.872	3000.0	1501.136	2.954	4
19	1.851	3000.0	1502.061	2.970	4
18	1.830	3000.0	1502.984	2.984	4
17	1.798	3000.0	1504.372	3.072	4
16	1.766	3000.0	1505.736	3.136	4
15	1.734	3000.0	1507.107	3.207	4
14	1.702	3000.0	1508.476	3.276	4
13	1.670	3000.0	1509.847	3.347	4
12	1.638	3000.0	1511.218	3.418	4
11	1.606	3000.0	1512.591	3.491	4
10	1.574	3000.0	1513.964	3.564	4
9	1.542	3000.0	1515.338	3.638	4
8	1.510	3000.0	1516.713	3.713	4
7	1.450	3000.0	1518.893	4.035	4
6	1.390	3000.0	1520.719	4.005	4
5	1.330	3000.0	1522.645	4.074	4
4	1.270	3000.0	1524.561	4.133	4
3	1.210	3000.0	1526.498	4.212	4
2	1.150	3000.0	1528.455	4.312	4
1	1.090	3000.0	1530.456	4.456	4

Interp. Cross Section I	Water Elevation YI(I) (ft MSL)	Initial Flow QDI(I) (cfs)
1	1530.46	3000.0
2	1528.45	3000.0
3	1526.50	3000.0
4	1524.56	3000.0
5	1522.65	3000.0
6	1520.72	3000.0
7	1518.89	3000.0
8	1516.71	3000.0
9	1515.34	3000.0
10	1513.96	3000.0
11	1512.59	3000.0
12	1511.22	3000.0
13	1509.85	3000.0
14	1508.48	3000.0
15	1507.11	3000.0
16	1505.74	3000.0
17	1504.37	3000.0
18	1502.98	3000.0
19	1502.06	3000.0
20	1501.14	3000.0
21	1500.21	3000.0
22	1499.28	3000.0
23	1498.35	3000.0
24	1497.42	3000.0
25	1496.49	3000.0
26	1495.55	3000.0
27	1494.61	3000.0
28	1493.66	3000.0
29	1492.79	3000.0
30	1490.33	3000.0
31	1488.06	3000.0
32	1485.30	3000.0
33	1483.54	3000.0
34	1483.36	3000.0
35	1483.18	3000.0
36	1483.02	3000.0
37	1482.88	3000.0
38	1482.75	3000.0
39	1482.64	3000.0
40	1482.54	3000.0
41	1482.45	3000.0
42	1482.37	3000.0
43	1482.30	3000.0
44	1482.23	3000.0
45	1482.17	3000.0
46	1482.12	3000.0
47	1482.06	3000.0
48	1482.01	3000.0
49	1481.95	3000.0

Interp. Cross Section I	Water Elevation YI(I) (ft MSL)	Initial Flow QDI(I) (cfs)
50	1481.88	3000.0
51	1481.81	3000.0
52	1481.72	3000.0
53	1481.63	3000.0
54	1481.50	3000.0
55	1481.31	3000.0
56	1481.19	3000.0
57	1480.82	3000.0
58	1480.44	3000.0
59	1480.03	3000.0
60	1479.61	3000.0
61	1479.20	3000.0
62	1478.79	3000.0
63	1478.37	3000.0
64	1477.95	3000.0
65	1477.54	3000.0
66	1477.12	3000.0
67	1476.71	3000.0
68	1476.29	3000.0
69	1475.88	3000.0
70	1475.46	3000.0
71	1475.05	3000.0
72	1474.63	3000.0
73	1474.22	3000.0
74	1473.80	3000.0
75	1473.39	3000.0
76	1472.98	3000.0
77	1472.57	3000.0
78	1472.16	3000.0
79	1471.74	3000.0
80	1471.33	3000.0
81	1470.92	3000.0
82	1470.51	3000.0
83	1470.10	3000.0
84	1469.69	3000.0
85	1469.28	3000.0
86	1468.87	3000.0
87	1468.46	3000.0
88	1468.06	3000.0
89	1467.65	3000.0
90	1467.24	3000.0
91	1466.83	3000.0
92	1466.43	3000.0
93	1466.02	3000.0
94	1465.61	3000.0
95	1465.21	3000.0
96	1464.80	3000.0
97	1464.40	3000.0
98	1464.01	3000.0
99	1463.63	3000.0

Interp. Cross Section I	Water Elevation YI(I) (ft MSL)	Initial Flow QDI(I) (cfs)
100	1463.28	3000.0
101	1462.97	3000.0
102	1462.70	3000.0
103	1462.39	3000.0
104	1462.07	3000.0
105	1461.75	3000.0
106	1461.42	3000.0
107	1461.10	3000.0
108	1460.78	3000.0
109	1460.45	3000.0
110	1460.13	3000.0
111	1459.80	3000.0
112	1459.47	3000.0
113	1459.14	3000.0
114	1458.81	3000.0
115	1458.48	3000.0
116	1458.15	3000.0
117	1457.81	3000.0
118	1457.48	3000.0
119	1457.14	3000.0
120	1456.81	3000.0
121	1456.47	3000.0
122	1456.13	3000.0
123	1455.79	3000.0
124	1455.46	3000.0
125	1455.12	3000.0
126	1454.79	3000.0
127	1454.46	3000.0

NONCONVERGENCE OCCURRED AT CROSS-SECTION
TT= 42.6299 DT

Normalized conservation of mass as percent of maximum flow in reach = -.02

ROUTING COMPLETED :

Number of Time Steps Used (KTIME)	1143
Maximum Number of Time Steps Allowed	1199
Total Time of Flood Routing (TT, hr)	80.0

FLOOD CREST SUMMARY :

Cross Section Location (mi)	Maximum Stage Elevation (ft MSL)	Maximum Flow (cfs)	Time To Maximum Stage (hr)	Maximum Flow Velocity (ft/sec)	Flood Elevation (ft MSL)	Time To Flood Elevation (hr)
1.090	1550.87	303466	43.750	14.26	1532.00	42.07
1.150	1549.01	303715	43.750	14.17	1530.14	42.07
1.210	1547.12	303894	43.750	14.12	1528.29	42.07
1.270	1545.18	304005	43.750	14.13	1526.43	42.07
1.330	1543.15	304049	43.750	14.20	1524.57	42.07
1.390	1540.94	304027	43.750	14.46	1522.71	42.14
1.450	1538.43	303955	43.750	15.01	1520.86	42.14
1.510	1534.47	303859	43.750	17.20	1519.00	42.14
1.542	1532.72	303796	43.750	16.86	1517.70	42.14
1.574	1530.97	303717	43.750	16.50	1516.40	42.21
1.606	1529.23	303618	43.750	16.11	1515.10	42.21
1.638	1527.51	303494	43.750	15.65	1513.80	42.21
1.670	1525.85	303348	43.750	15.07	1512.50	42.21
1.702	1524.25	303180	43.750	14.40	1511.20	42.21
1.734	1522.72	302980	43.750	13.57	1509.90	42.21
1.766	1521.27	302742	43.820	12.53	1508.60	42.28
1.798	1519.89	302451	43.820	11.17	1507.30	42.28
1.830	1518.57	302256	43.820	9.25	1506.00	42.28
1.851	1517.57	302359	43.820	9.22	1505.09	42.28
1.872	1516.49	302444	43.820	9.26	1504.18	42.28
1.893	1515.40	302514	43.820	9.33	1503.27	42.28
1.914	1514.31	302570	43.820	9.41	1502.36	42.28
1.935	1513.25	302615	43.820	9.48	1501.45	42.28
1.955	1512.20	302647	43.820	9.56	1500.55	42.35
1.976	1511.15	302667	43.820	9.64	1499.64	42.35
1.997	1510.11	302674	43.820	9.71	1498.73	42.35
2.018	1509.07	302667	43.820	9.75	1497.82	42.35
2.039	1508.06	302646	43.820	9.68	1496.91	42.35
2.060	1507.16	302607	43.820	9.28	1496.00	42.35
2.117	1504.65	302458	43.820	10.40	1493.50	42.35
2.175	1502.61	302285	43.820	10.56	1491.00	42.35
2.232	1501.00	302112	43.820	10.13	1488.50	42.35
2.290	1499.89	301937	43.820	9.24	1486.00	42.28
2.300	1499.14	345088	43.820	10.99	1485.83	42.28
2.310	1498.81	345049	43.820	10.99	1485.65	42.28
2.320	1498.48	345009	43.820	10.97	1485.48	42.28
2.330	1498.13	344968	43.820	10.94	1485.30	42.28
2.340	1497.78	344925	43.820	10.90	1485.13	42.28
2.350	1497.41	344880	43.820	10.84	1484.96	42.28
2.360	1497.04	344833	43.820	10.77	1484.78	42.28
2.370	1496.65	344784	43.820	10.69	1484.61	42.28
2.380	1496.26	344732	43.820	10.59	1484.43	42.21
2.390	1495.86	344677	43.820	10.46	1484.26	42.21
2.400	1495.45	344618	43.820	10.32	1484.09	42.21
2.410	1495.03	344556	43.820	10.15	1483.91	42.14
2.420	1494.61	344489	43.890	9.95	1483.74	42.00
2.430	1494.18	344417	43.890	9.71	1483.57	41.86
2.440	1493.75	344339	43.890	9.44	1483.39	41.72

FLOOD CREST SUMMARY :

Cross Section Location (mi)	Maximum Stage Elevation (ft MSL)	Maximum Flow (cfs)	Time To Maximum Stage (hr)	Maximum Flow Velocity (ft/sec)	Flood Elevation (ft MSL)	Time To Flood Elevation (hr)
2.450	1493.31	344253	43.890	9.11	1483.22	41.58
2.460	1492.86	344158	43.890	8.72	1483.04	41.51
2.470	1492.42	344052	43.890	8.25	1482.87	41.44
2.480	1491.98	343932	43.890	7.69	1482.70	41.58
2.490	1491.54	343792	43.890	7.00	1482.52	41.93
2.500	1491.17	343703	43.890	6.16	1482.35	42.28
2.510	1490.91	343715	43.890	5.24	1482.17	42.35
2.520	1490.73	343723	43.890	4.32	1482.00	42.35
2.530	1490.50	343726	43.890	4.32	1481.83	42.35
2.540	1490.26	343721	43.890	4.32	1481.65	42.42
2.550	1490.02	343709	43.890	4.33	1481.48	42.42
2.560	1489.78	343689	43.890	4.33	1481.30	42.42
2.570	1489.55	343664	43.890	4.33	1481.13	42.49
2.580	1489.31	343632	43.890	4.34	1480.96	42.49
2.590	1489.07	343594	43.890	4.34	1480.78	42.49
2.600	1488.82	343550	43.890	4.34	1480.61	42.49
2.610	1488.58	343500	43.890	4.35	1480.43	42.56
2.620	1488.33	343444	43.890	4.35	1480.26	42.56
2.630	1488.08	343383	43.890	4.35	1480.09	42.56
2.640	1487.82	343316	43.890	4.36	1479.91	42.63
2.650	1487.56	343244	43.890	4.36	1479.74	42.63
2.660	1487.29	343167	43.890	4.37	1479.57	42.63
2.670	1487.02	343084	43.890	4.37	1479.39	42.63
2.680	1486.73	342995	43.890	4.38	1479.22	42.66
2.690	1486.44	342902	43.890	4.38	1479.04	42.66
2.700	1486.14	342804	43.890	4.39	1478.87	42.70
2.710	1485.84	342699	43.890	4.40	1478.70	42.70
2.720	1485.54	342588	43.960	4.41	1478.52	42.77
2.730	1485.23	342471	43.960	4.41	1478.35	42.77
2.740	1484.91	342349	43.960	4.42	1478.17	42.77
2.750	1484.60	342219	43.960	4.43	1478.00	42.77
2.760	1484.28	342082	43.960	4.44	1477.83	42.84
2.770	1483.96	341940	43.960	4.44	1477.65	42.84
2.780	1483.63	341812	43.960	4.45	1477.48	42.84
2.790	1483.30	341856	43.960	4.46	1477.30	42.84
2.800	1482.96	341894	43.960	4.47	1477.13	42.84
2.810	1482.62	341927	43.960	4.47	1476.96	42.91
2.820	1482.28	341955	43.960	4.48	1476.78	42.91
2.830	1481.94	341977	43.960	4.49	1476.61	42.91
2.840	1481.59	341994	43.960	4.49	1476.43	42.91
2.850	1481.23	342007	43.960	4.50	1476.26	42.91
2.860	1480.88	342014	43.960	4.51	1476.09	42.91
2.870	1480.52	342016	43.960	4.51	1475.91	42.91
2.880	1480.16	342012	43.960	4.52	1475.74	42.91
2.890	1479.79	342003	43.960	4.53	1475.57	42.98
2.900	1479.42	341989	43.960	4.54	1475.39	42.98
2.910	1479.04	341969	43.960	4.54	1475.22	42.98
2.920	1478.67	341945	43.960	4.55	1475.04	42.98

FLOOD CREST SUMMARY :

Cross Section Location (mi)	Maximum Stage Elevation (ft MSL)	Maximum Flow (cfs)	Time To Maximum Stage (hr)	Maximum Flow Velocity (ft/sec)	Flood Elevation (ft MSL)	Time To Flood Elevation (hr)
2.930	1478.29	341916	43.960	4.56	1474.87	43.05
2.940	1477.90	341881	43.960	4.57	1474.70	43.05
2.950	1477.51	341842	43.960	4.58	1474.52	43.05
2.960	1477.12	341797	43.960	4.59	1474.35	43.12
2.970	1476.72	341743	43.960	4.60	1474.17	43.12
2.980	1476.32	341683	43.960	4.63	1474.00	43.19
2.990	1475.93	341621	43.960	4.57	1473.52	43.19
3.000	1475.54	341554	43.960	4.54	1473.04	43.19
3.010	1475.15	341483	43.960	4.50	1472.56	43.19
3.020	1474.76	341403	43.960	4.47	1472.08	43.12
3.030	1474.37	341313	43.960	4.44	1471.60	43.12
3.040	1473.98	341219	43.960	4.41	1471.12	43.12
3.050	1473.60	341118	44.030	4.37	1470.64	43.19
3.060	1473.22	341011	44.030	4.34	1470.16	43.19
3.070	1472.84	340900	44.030	4.31	1469.68	43.19
3.080	1472.46	340784	44.030	4.28	1469.20	43.19
3.090	1472.09	340742	44.030	4.25	1468.72	43.19
3.100	1471.71	340787	44.030	4.22	1468.24	43.19
3.110	1471.34	340831	44.030	4.20	1467.76	43.19
3.120	1470.97	340869	44.030	4.17	1467.28	43.12
3.130	1470.59	340896	44.030	4.14	1466.80	43.12
3.140	1470.22	340913	44.030	4.12	1466.32	43.12
3.150	1469.85	340926	44.030	4.09	1465.84	43.12
3.160	1469.49	340943	44.030	4.07	1465.36	43.12
3.170	1469.12	340960	44.030	4.05	1464.88	43.05
3.180	1468.75	340965	44.030	4.02	1464.40	43.05
3.190	1468.38	340958	44.030	4.00	1463.92	42.98
3.200	1468.01	340947	44.030	3.99	1463.44	42.98
3.210	1467.64	340937	44.030	3.97	1462.96	42.91
3.220	1467.27	340924	44.030	3.96	1462.48	42.91
3.230	1466.90	340904	44.030	3.94	1462.00	42.91

COMPUTED WATER SURFACE ELEVATIONS AT REQUESTED STATIONS WHERE HYDROGRAPHS ARE PLOTTED :

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
1	.000	1530.46	1492.80	1462.70	1454.46		
2	.070	1530.46	1492.80	1462.70	1454.46		
3	.140	1530.46	1492.80	1462.71	1454.46		
4	.210	1530.46	1492.80	1462.71	1454.46		
5	.280	1530.46	1492.80	1462.71	1454.46		
6	.350	1530.46	1492.80	1462.71	1454.46		
7	.420	1530.46	1492.80	1462.71	1454.46		
8	.490	1530.46	1492.80	1462.71	1454.46		
9	.560	1530.46	1492.80	1462.71	1454.46		
10	.630	1530.46	1492.80	1462.71	1454.46		
11	.700	1530.46	1492.80	1462.72	1454.46		
12	.770	1530.46	1492.80	1462.72	1454.46		
13	.840	1530.46	1492.80	1462.72	1454.46		
14	.910	1530.46	1492.80	1462.72	1454.46		
15	.980	1530.46	1492.80	1462.73	1454.46		
16	1.050	1530.46	1492.80	1462.73	1454.46		
17	1.120	1530.46	1492.80	1462.73	1454.47		
18	1.190	1530.46	1492.80	1462.73	1454.46		
19	1.260	1530.46	1492.80	1462.73	1454.46		
20	1.330	1530.46	1492.80	1462.74	1454.46		
21	1.400	1530.46	1492.80	1462.74	1454.46		
22	1.470	1530.46	1492.80	1462.74	1454.46		
23	1.540	1530.46	1492.80	1462.74	1454.47		
24	1.610	1530.46	1492.80	1462.74	1454.47		
25	1.680	1530.46	1492.80	1462.75	1454.47		
26	1.750	1530.46	1492.80	1462.75	1454.47		
27	1.820	1530.46	1492.80	1462.75	1454.47		
28	1.890	1530.46	1492.80	1462.75	1454.47		
29	1.960	1530.46	1492.80	1462.76	1454.48		
30	2.030	1530.46	1492.80	1462.76	1454.48		
31	2.100	1530.46	1492.80	1462.76	1454.48		
32	2.170	1530.46	1492.80	1462.76	1454.48		
33	2.240	1530.46	1492.80	1462.76	1454.49		
34	2.310	1530.46	1492.80	1462.77	1454.49		
35	2.380	1530.46	1492.80	1462.77	1454.49		
36	2.450	1530.46	1492.80	1462.77	1454.49		
37	2.520	1530.46	1492.80	1462.77	1454.50		
38	2.590	1530.46	1492.80	1462.77	1454.50		
39	2.660	1530.46	1492.80	1462.78	1454.50		
40	2.730	1530.46	1492.80	1462.78	1454.50		
41	2.800	1530.46	1492.80	1462.78	1454.51		
42	2.870	1530.46	1492.80	1462.78	1454.51		
43	2.940	1530.46	1492.80	1462.78	1454.51		
44	3.010	1530.46	1492.80	1462.79	1454.51		
45	3.080	1530.46	1492.80	1462.79	1454.51		
46	3.150	1530.46	1492.80	1462.79	1454.52		
47	3.220	1530.46	1492.80	1462.79	1454.52		
48	3.290	1530.46	1492.80	1462.79	1454.52		
49	3.360	1530.46	1492.80	1462.80	1454.52		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
50	3.430	1530.46	1492.80	1462.80	1454.53		
51	3.500	1530.46	1492.80	1462.80	1454.53		
52	3.570	1530.46	1492.80	1462.80	1454.53		
53	3.640	1530.46	1492.80	1462.80	1454.53		
54	3.710	1530.46	1492.80	1462.81	1454.54		
55	3.780	1530.46	1492.80	1462.81	1454.54		
56	3.850	1530.46	1492.80	1462.81	1454.54		
57	3.920	1530.46	1492.80	1462.81	1454.54		
58	3.990	1530.46	1492.80	1462.81	1454.55		
59	4.060	1530.46	1492.80	1462.82	1454.55		
60	4.130	1530.46	1492.80	1462.82	1454.55		
61	4.200	1530.46	1492.80	1462.82	1454.55		
62	4.270	1530.46	1492.80	1462.82	1454.56		
63	4.340	1530.46	1492.80	1462.82	1454.56		
64	4.410	1530.46	1492.80	1462.83	1454.56		
65	4.480	1530.46	1492.80	1462.83	1454.56		
66	4.550	1530.46	1492.80	1462.83	1454.57		
67	4.620	1530.46	1492.80	1462.83	1454.57		
68	4.690	1530.46	1492.80	1462.83	1454.57		
69	4.760	1530.46	1492.80	1462.83	1454.57		
70	4.830	1530.46	1492.80	1462.84	1454.58		
71	4.900	1530.46	1492.80	1462.84	1454.58		
72	4.970	1530.46	1492.80	1462.84	1454.58		
73	5.040	1530.46	1492.80	1462.84	1454.58		
74	5.110	1530.46	1492.80	1462.84	1454.59		
75	5.180	1530.46	1492.80	1462.85	1454.59		
76	5.250	1530.46	1492.80	1462.85	1454.59		
77	5.320	1530.46	1492.80	1462.85	1454.59		
78	5.390	1530.46	1492.80	1462.85	1454.60		
79	5.460	1530.46	1492.80	1462.85	1454.60		
80	5.530	1530.46	1492.80	1462.86	1454.60		
81	5.600	1530.46	1492.80	1462.86	1454.60		
82	5.670	1530.46	1492.80	1462.86	1454.60		
83	5.740	1530.46	1492.80	1462.86	1454.61		
84	5.810	1530.46	1492.80	1462.86	1454.61		
85	5.880	1530.46	1492.80	1462.87	1454.61		
86	5.950	1530.46	1492.80	1462.87	1454.61		
87	6.020	1530.46	1492.80	1462.87	1454.62		
88	6.090	1530.46	1492.80	1462.87	1454.62		
89	6.160	1530.46	1492.80	1462.87	1454.62		
90	6.230	1530.46	1492.80	1462.88	1454.62		
91	6.300	1530.46	1492.80	1462.88	1454.63		
92	6.370	1530.46	1492.80	1462.88	1454.63		
93	6.440	1530.46	1492.80	1462.88	1454.63		
94	6.510	1530.46	1492.80	1462.88	1454.63		
95	6.580	1530.46	1492.80	1462.88	1454.63		
96	6.650	1530.46	1492.80	1462.89	1454.64		
97	6.720	1530.46	1492.80	1462.89	1454.64		
98	6.790	1530.46	1492.80	1462.89	1454.64		
99	6.860	1530.46	1492.80	1462.89	1454.64		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
100	6.930	1530.46	1492.80	1462.89	1454.65		
101	7.000	1530.46	1492.80	1462.90	1454.65		
102	7.070	1530.46	1492.80	1462.90	1454.65		
103	7.140	1530.46	1492.80	1462.90	1454.65		
104	7.210	1530.46	1492.80	1462.90	1454.65		
105	7.280	1530.46	1492.80	1462.90	1454.66		
106	7.350	1530.46	1492.80	1462.90	1454.66		
107	7.420	1530.46	1492.80	1462.91	1454.66		
108	7.490	1530.46	1492.80	1462.91	1454.66		
109	7.560	1530.46	1492.80	1462.91	1454.67		
110	7.630	1530.46	1492.80	1462.91	1454.67		
111	7.700	1530.46	1492.81	1462.91	1454.67		
112	7.770	1530.46	1492.80	1462.92	1454.67		
113	7.840	1530.46	1492.80	1462.92	1454.67		
114	7.910	1530.46	1492.80	1462.92	1454.68		
115	7.980	1530.46	1492.80	1462.92	1454.68		
116	8.050	1530.46	1492.80	1462.92	1454.68		
117	8.120	1530.46	1492.80	1462.93	1454.68		
118	8.190	1530.46	1492.81	1462.93	1454.69		
119	8.260	1530.46	1492.81	1462.93	1454.69		
120	8.330	1530.46	1492.81	1462.93	1454.69		
121	8.400	1530.46	1492.81	1462.93	1454.69		
122	8.470	1530.46	1492.81	1462.93	1454.70		
123	8.540	1530.46	1492.81	1462.94	1454.70		
124	8.610	1530.46	1492.81	1462.94	1454.70		
125	8.680	1530.46	1492.81	1462.94	1454.70		
126	8.750	1530.46	1492.81	1462.94	1454.70		
127	8.820	1530.46	1492.81	1462.94	1454.71		
128	8.890	1530.46	1492.81	1462.95	1454.71		
129	8.960	1530.46	1492.81	1462.95	1454.71		
130	9.030	1530.46	1492.81	1462.95	1454.71		
131	9.100	1530.46	1492.81	1462.95	1454.72		
132	9.170	1530.46	1492.81	1462.95	1454.72		
133	9.240	1530.46	1492.81	1462.95	1454.72		
134	9.310	1530.46	1492.81	1462.96	1454.72		
135	9.380	1530.46	1492.81	1462.96	1454.72		
136	9.450	1530.46	1492.81	1462.96	1454.73		
137	9.520	1530.46	1492.81	1462.96	1454.73		
138	9.590	1530.46	1492.81	1462.96	1454.73		
139	9.660	1530.46	1492.81	1462.97	1454.73		
140	9.730	1530.46	1492.81	1462.97	1454.73		
141	9.800	1530.46	1492.81	1462.97	1454.74		
142	9.870	1530.46	1492.81	1462.97	1454.74		
143	9.940	1530.46	1492.81	1462.97	1454.74		
144	10.010	1530.46	1492.81	1462.97	1454.74		
145	10.080	1530.46	1492.81	1462.98	1454.75		
146	10.150	1530.46	1492.81	1462.98	1454.75		
147	10.220	1530.46	1492.81	1462.98	1454.75		
148	10.290	1530.46	1492.81	1462.98	1454.75		
149	10.360	1530.46	1492.81	1462.98	1454.75		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
150	10.430	1530.46	1492.81	1462.98	1454.76		
151	10.500	1530.46	1492.81	1462.99	1454.76		
152	10.570	1530.46	1492.81	1462.99	1454.76		
153	10.640	1530.46	1492.81	1462.99	1454.76		
154	10.710	1530.46	1492.81	1462.99	1454.76		
155	10.780	1530.46	1492.81	1462.99	1454.77		
156	10.850	1530.46	1492.81	1463.00	1454.77		
157	10.920	1530.46	1492.81	1463.00	1454.77		
158	10.990	1530.46	1492.81	1463.00	1454.77		
159	11.060	1530.46	1492.81	1463.00	1454.77		
160	11.130	1530.46	1492.81	1463.00	1454.78		
161	11.200	1530.46	1492.81	1463.00	1454.78		
162	11.270	1530.46	1492.81	1463.01	1454.78		
163	11.340	1530.46	1492.81	1463.01	1454.78		
164	11.410	1530.46	1492.81	1463.01	1454.79		
165	11.480	1530.46	1492.81	1463.01	1454.79		
166	11.550	1530.46	1492.81	1463.01	1454.79		
167	11.620	1530.46	1492.81	1463.01	1454.79		
168	11.690	1530.46	1492.81	1463.02	1454.79		
169	11.760	1530.46	1492.81	1463.02	1454.80		
170	11.830	1530.46	1492.81	1463.02	1454.80		
171	11.900	1530.46	1492.81	1463.02	1454.80		
172	11.970	1530.46	1492.81	1463.02	1454.80		
173	12.040	1530.46	1492.81	1463.02	1454.80		
174	12.110	1530.46	1492.81	1463.03	1454.81		
175	12.180	1530.46	1492.81	1463.03	1454.81		
176	12.250	1530.46	1492.81	1463.03	1454.81		
177	12.320	1530.46	1492.81	1463.03	1454.81		
178	12.390	1530.46	1492.81	1463.03	1454.81		
179	12.460	1530.46	1492.81	1463.04	1454.82		
180	12.530	1530.46	1492.81	1463.04	1454.82		
181	12.600	1530.46	1492.81	1463.04	1454.82		
182	12.670	1530.46	1492.81	1463.04	1454.82		
183	12.740	1530.46	1492.81	1463.04	1454.82		
184	12.810	1530.46	1492.81	1463.04	1454.83		
185	12.880	1530.46	1492.81	1463.05	1454.83		
186	12.950	1530.46	1492.81	1463.05	1454.83		
187	13.020	1530.46	1492.81	1463.05	1454.83		
188	13.090	1530.46	1492.81	1463.05	1454.83		
189	13.160	1530.46	1492.81	1463.05	1454.84		
190	13.230	1530.46	1492.81	1463.05	1454.84		
191	13.300	1530.46	1492.81	1463.06	1454.84		
192	13.370	1530.46	1492.81	1463.06	1454.84		
193	13.440	1530.46	1492.81	1463.06	1454.84		
194	13.510	1530.46	1492.81	1463.06	1454.85		
195	13.580	1530.46	1492.81	1463.06	1454.85		
196	13.650	1530.46	1492.81	1463.06	1454.85		
197	13.720	1530.46	1492.81	1463.07	1454.85		
198	13.790	1530.46	1492.81	1463.07	1454.85		
199	13.860	1530.46	1492.81	1463.07	1454.86		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
200	13.930	1530.46	1492.81	1463.07	1454.86		
201	14.000	1530.46	1492.81	1463.07	1454.86		
202	14.070	1530.46	1492.81	1463.07	1454.86		
203	14.140	1530.46	1492.81	1463.08	1454.86		
204	14.210	1530.46	1492.81	1463.08	1454.87		
205	14.280	1530.46	1492.81	1463.08	1454.87		
206	14.350	1530.46	1492.81	1463.08	1454.87		
207	14.420	1530.46	1492.81	1463.08	1454.87		
208	14.490	1530.46	1492.81	1463.08	1454.87		
209	14.560	1530.46	1492.81	1463.09	1454.88		
210	14.630	1530.46	1492.81	1463.09	1454.88		
211	14.700	1530.46	1492.81	1463.09	1454.88		
212	14.770	1530.46	1492.81	1463.09	1454.88		
213	14.840	1530.46	1492.81	1463.09	1454.88		
214	14.910	1530.46	1492.81	1463.09	1454.89		
215	14.980	1530.46	1492.81	1463.10	1454.89		
216	15.050	1530.46	1492.81	1463.10	1454.89		
217	15.120	1530.46	1492.81	1463.10	1454.89		
218	15.190	1530.46	1492.81	1463.10	1454.89		
219	15.260	1530.46	1492.81	1463.10	1454.89		
220	15.330	1530.46	1492.81	1463.10	1454.90		
221	15.400	1530.46	1492.81	1463.10	1454.90		
222	15.470	1530.46	1492.81	1463.11	1454.90		
223	15.540	1530.46	1492.81	1463.11	1454.90		
224	15.610	1530.46	1492.81	1463.11	1454.90		
225	15.680	1530.46	1492.81	1463.11	1454.91		
226	15.750	1530.46	1492.81	1463.11	1454.91		
227	15.820	1530.46	1492.81	1463.11	1454.91		
228	15.890	1530.46	1492.81	1463.12	1454.91		
229	15.960	1530.46	1492.81	1463.12	1454.91		
230	16.030	1530.46	1492.81	1463.12	1454.92		
231	16.100	1530.46	1492.81	1463.12	1454.92		
232	16.170	1530.46	1492.81	1463.12	1454.92		
233	16.240	1530.46	1492.81	1463.12	1454.92		
234	16.310	1530.46	1492.81	1463.13	1454.92		
235	16.380	1530.46	1492.81	1463.13	1454.93		
236	16.450	1530.46	1492.81	1463.13	1454.93		
237	16.520	1530.46	1492.81	1463.13	1454.93		
238	16.590	1530.46	1492.81	1463.13	1454.93		
239	16.660	1530.46	1492.81	1463.13	1454.93		
240	16.730	1530.46	1492.81	1463.14	1454.93		
241	16.800	1530.46	1492.81	1463.14	1454.94		
242	16.870	1530.46	1492.81	1463.14	1454.94		
243	16.940	1530.46	1492.81	1463.14	1454.94		
244	17.010	1530.46	1492.81	1463.14	1454.94		
245	17.080	1530.46	1492.81	1463.14	1454.94		
246	17.150	1530.46	1492.81	1463.14	1454.95		
247	17.220	1530.46	1492.81	1463.15	1454.95		
248	17.290	1530.46	1492.81	1463.15	1454.95		
249	17.360	1530.46	1492.81	1463.15	1454.95		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
250	17.430	1530.46	1492.81	1463.15	1454.95		
251	17.500	1530.46	1492.81	1463.15	1454.95		
252	17.570	1530.46	1492.81	1463.15	1454.96		
253	17.640	1530.46	1492.81	1463.16	1454.96		
254	17.710	1530.46	1492.81	1463.16	1454.96		
255	17.780	1530.46	1492.81	1463.16	1454.96		
256	17.850	1530.46	1492.81	1463.16	1454.96		
257	17.920	1530.46	1492.81	1463.16	1454.97		
258	17.990	1530.46	1492.81	1463.16	1454.97		
259	18.060	1530.46	1492.81	1463.17	1454.97		
260	18.130	1530.46	1492.81	1463.17	1454.97		
261	18.200	1530.46	1492.81	1463.17	1454.97		
262	18.270	1530.46	1492.81	1463.17	1454.97		
263	18.340	1530.46	1492.81	1463.17	1454.98		
264	18.410	1530.46	1492.81	1463.17	1454.98		
265	18.480	1530.46	1492.81	1463.17	1454.98		
266	18.550	1530.46	1492.81	1463.18	1454.98		
267	18.620	1530.46	1492.81	1463.18	1454.98		
268	18.690	1530.46	1492.81	1463.18	1454.99		
269	18.760	1530.46	1492.81	1463.18	1454.99		
270	18.830	1530.46	1492.81	1463.18	1454.99		
271	18.900	1530.46	1492.81	1463.18	1454.99		
272	18.970	1530.46	1492.81	1463.19	1454.99		
273	19.040	1530.46	1492.81	1463.19	1454.99		
274	19.110	1530.46	1492.81	1463.19	1455.00		
275	19.180	1530.46	1492.81	1463.19	1455.00		
276	19.250	1530.46	1492.81	1463.19	1455.00		
277	19.320	1530.46	1492.81	1463.19	1455.00		
278	19.390	1530.46	1492.81	1463.19	1455.00		
279	19.460	1530.46	1492.81	1463.20	1455.01		
280	19.530	1530.46	1492.81	1463.20	1455.01		
281	19.600	1530.46	1492.81	1463.20	1455.01		
282	19.670	1530.46	1492.81	1463.20	1455.01		
283	19.740	1530.46	1492.81	1463.20	1455.01		
284	19.810	1530.46	1492.81	1463.20	1455.01		
285	19.880	1530.46	1492.81	1463.20	1455.02		
286	19.950	1530.46	1492.81	1463.21	1455.02		
287	20.020	1530.46	1492.81	1463.21	1455.02		
288	20.090	1530.46	1492.81	1463.21	1455.02		
289	20.160	1530.46	1492.81	1463.21	1455.02		
290	20.230	1530.46	1492.81	1463.21	1455.02		
291	20.300	1530.46	1492.81	1463.21	1455.03		
292	20.370	1530.46	1492.81	1463.22	1455.03		
293	20.440	1530.46	1492.81	1463.22	1455.03		
294	20.510	1530.46	1492.81	1463.22	1455.03		
295	20.580	1530.46	1492.81	1463.22	1455.03		
296	20.650	1530.46	1492.81	1463.22	1455.04		
297	20.720	1530.46	1492.81	1463.22	1455.04		
298	20.790	1530.46	1492.81	1463.22	1455.04		
299	20.860	1530.46	1492.81	1463.23	1455.04		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
300	20.930	1530.46	1492.81	1463.23	1455.04		
301	21.000	1530.46	1492.81	1463.23	1455.04		
302	21.070	1530.46	1492.81	1463.23	1455.05		
303	21.140	1530.46	1492.81	1463.23	1455.05		
304	21.210	1530.46	1492.81	1463.23	1455.05		
305	21.280	1530.46	1492.81	1463.23	1455.05		
306	21.350	1530.46	1492.81	1463.24	1455.05		
307	21.420	1530.46	1492.81	1463.24	1455.05		
308	21.490	1530.46	1492.81	1463.24	1455.06		
309	21.560	1530.46	1492.81	1463.24	1455.06		
310	21.630	1530.46	1492.81	1463.24	1455.06		
311	21.700	1530.46	1492.81	1463.24	1455.06		
312	21.770	1530.46	1492.81	1463.24	1455.06		
313	21.840	1530.46	1492.81	1463.25	1455.06		
314	21.910	1530.46	1492.81	1463.25	1455.07		
315	21.980	1530.46	1492.81	1463.25	1455.07		
316	22.050	1530.46	1492.81	1463.25	1455.07		
317	22.120	1530.46	1492.81	1463.25	1455.07		
318	22.190	1530.46	1492.81	1463.25	1455.07		
319	22.260	1530.46	1492.81	1463.26	1455.07		
320	22.330	1530.46	1492.81	1463.26	1455.08		
321	22.400	1530.46	1492.81	1463.26	1455.08		
322	22.470	1530.46	1492.81	1463.26	1455.08		
323	22.540	1530.46	1492.81	1463.26	1455.08		
324	22.610	1530.46	1492.81	1463.26	1455.08		
325	22.680	1530.46	1492.81	1463.26	1455.08		
326	22.750	1530.46	1492.81	1463.27	1455.09		
327	22.820	1530.46	1492.81	1463.27	1455.09		
328	22.890	1530.46	1492.81	1463.27	1455.09		
329	22.960	1530.46	1492.81	1463.27	1455.09		
330	23.030	1530.46	1492.81	1463.27	1455.09		
331	23.100	1530.46	1492.81	1463.27	1455.09		
332	23.170	1530.46	1492.81	1463.27	1455.10		
333	23.240	1530.46	1492.81	1463.28	1455.10		
334	23.310	1530.46	1492.81	1463.28	1455.10		
335	23.380	1530.46	1492.81	1463.28	1455.10		
336	23.450	1530.46	1492.81	1463.28	1455.10		
337	23.520	1530.46	1492.81	1463.28	1455.10		
338	23.590	1530.46	1492.81	1463.28	1455.11		
339	23.660	1530.46	1492.81	1463.28	1455.11		
340	23.730	1530.46	1492.81	1463.29	1455.11		
341	23.800	1530.46	1492.81	1463.29	1455.11		
342	23.870	1530.46	1492.81	1463.29	1455.11		
343	23.940	1530.46	1492.81	1463.29	1455.11		
344	24.010	1530.46	1492.81	1463.29	1455.12		
345	24.080	1530.46	1492.81	1463.29	1455.12		
346	24.150	1530.46	1492.81	1463.29	1455.12		
347	24.220	1530.46	1492.81	1463.29	1455.12		
348	24.290	1530.46	1492.81	1463.30	1455.12		
349	24.360	1530.46	1492.81	1463.30	1455.12		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
350	24.430	1530.46	1492.81	1463.30	1455.13		
351	24.500	1530.46	1492.81	1463.30	1455.13		
352	24.570	1530.46	1492.81	1463.30	1455.13		
353	24.640	1530.46	1492.81	1463.30	1455.13		
354	24.710	1530.46	1492.81	1463.30	1455.13		
355	24.780	1530.46	1492.81	1463.31	1455.13		
356	24.850	1530.46	1492.81	1463.31	1455.14		
357	24.920	1530.46	1492.81	1463.31	1455.14		
358	24.990	1530.46	1492.81	1463.31	1455.14		
359	25.060	1530.46	1492.81	1463.31	1455.14		
360	25.130	1530.46	1492.81	1463.31	1455.14		
361	25.200	1530.46	1492.81	1463.31	1455.14		
362	25.270	1530.46	1492.81	1463.32	1455.15		
363	25.340	1530.46	1492.81	1463.32	1455.15		
364	25.410	1530.46	1492.81	1463.32	1455.15		
365	25.480	1530.46	1492.81	1463.32	1455.15		
366	25.550	1530.46	1492.81	1463.32	1455.15		
367	25.620	1530.46	1492.81	1463.32	1455.15		
368	25.690	1530.46	1492.81	1463.32	1455.15		
369	25.760	1530.46	1492.82	1463.33	1455.16		
370	25.830	1530.46	1492.81	1463.33	1455.16		
371	25.900	1530.46	1492.82	1463.33	1455.16		
372	25.970	1530.46	1492.81	1463.33	1455.16		
373	26.040	1530.46	1492.82	1463.33	1455.16		
374	26.110	1530.46	1492.81	1463.33	1455.16		
375	26.180	1530.46	1492.82	1463.33	1455.17		
376	26.250	1530.46	1492.82	1463.34	1455.17		
377	26.320	1530.46	1492.82	1463.34	1455.17		
378	26.390	1530.46	1492.82	1463.34	1455.17		
379	26.460	1530.46	1492.82	1463.34	1455.17		
380	26.530	1530.46	1492.82	1463.34	1455.17		
381	26.600	1530.46	1492.82	1463.34	1455.18		
382	26.670	1530.46	1492.82	1463.34	1455.18		
383	26.740	1530.46	1492.82	1463.34	1455.18		
384	26.810	1530.46	1492.82	1463.35	1455.18		
385	26.880	1530.46	1492.82	1463.35	1455.18		
386	26.950	1530.46	1492.82	1463.35	1455.18		
387	27.020	1530.46	1492.82	1463.35	1455.18		
388	27.090	1530.46	1492.82	1463.35	1455.19		
389	27.160	1530.46	1492.82	1463.35	1455.19		
390	27.230	1530.46	1492.82	1463.35	1455.19		
391	27.300	1530.46	1492.82	1463.36	1455.19		
392	27.370	1530.46	1492.82	1463.36	1455.19		
393	27.440	1530.46	1492.82	1463.36	1455.19		
394	27.510	1530.46	1492.82	1463.36	1455.20		
395	27.580	1530.46	1492.82	1463.36	1455.20		
396	27.650	1530.46	1492.82	1463.36	1455.20		
397	27.720	1530.46	1492.82	1463.36	1455.20		
398	27.790	1530.46	1492.82	1463.36	1455.20		
399	27.860	1530.46	1492.82	1463.37	1455.20		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
400	27.930	1530.46	1492.82	1463.37	1455.20		
401	28.000	1530.46	1492.82	1463.37	1455.21		
402	28.070	1530.46	1492.82	1463.37	1455.21		
403	28.140	1530.46	1492.82	1463.37	1455.21		
404	28.210	1530.46	1492.82	1463.37	1455.21		
405	28.280	1530.46	1492.82	1463.37	1455.21		
406	28.350	1530.46	1492.82	1463.38	1455.21		
407	28.420	1530.46	1492.82	1463.38	1455.22		
408	28.490	1530.46	1492.82	1463.38	1455.22		
409	28.560	1530.46	1492.82	1463.38	1455.22		
410	28.630	1530.46	1492.82	1463.38	1455.22		
411	28.700	1530.46	1492.82	1463.38	1455.22		
412	28.770	1530.46	1492.82	1463.38	1455.22		
413	28.840	1530.46	1492.82	1463.38	1455.22		
414	28.910	1530.46	1492.82	1463.39	1455.23		
415	28.980	1530.46	1492.82	1463.39	1455.23		
416	29.050	1530.46	1492.82	1463.39	1455.23		
417	29.120	1530.46	1492.82	1463.39	1455.23		
418	29.190	1530.46	1492.82	1463.39	1455.23		
419	29.260	1530.46	1492.82	1463.39	1455.23		
420	29.330	1530.46	1492.82	1463.39	1455.24		
421	29.400	1530.46	1492.82	1463.40	1455.24		
422	29.470	1530.46	1492.82	1463.40	1455.24		
423	29.540	1530.46	1492.82	1463.40	1455.24		
424	29.610	1530.46	1492.82	1463.40	1455.24		
425	29.680	1530.46	1492.82	1463.40	1455.24		
426	29.750	1530.46	1492.82	1463.40	1455.24		
427	29.820	1530.46	1492.82	1463.40	1455.25		
428	29.890	1530.46	1492.82	1463.40	1455.25		
429	29.960	1530.46	1492.82	1463.41	1455.25		
430	30.030	1530.46	1492.82	1463.41	1455.25		
431	30.100	1530.46	1492.82	1463.41	1455.25		
432	30.170	1530.46	1492.82	1463.41	1455.25		
433	30.240	1530.46	1492.82	1463.41	1455.25		
434	30.310	1530.46	1492.82	1463.41	1455.26		
435	30.380	1530.46	1492.82	1463.41	1455.26		
436	30.450	1530.46	1492.82	1463.41	1455.26		
437	30.520	1530.46	1492.82	1463.42	1455.26		
438	30.590	1530.46	1492.82	1463.42	1455.26		
439	30.660	1530.46	1492.82	1463.42	1455.26		
440	30.730	1530.46	1492.82	1463.42	1455.27		
441	30.800	1530.46	1492.82	1463.42	1455.27		
442	30.870	1530.46	1492.82	1463.42	1455.27		
443	30.940	1530.46	1492.82	1463.42	1455.27		
444	31.010	1530.46	1492.81	1463.43	1455.27		
445	31.080	1530.46	1492.82	1463.43	1455.27		
446	31.150	1530.46	1492.81	1463.43	1455.27		
447	31.220	1530.46	1492.82	1463.43	1455.28		
448	31.290	1530.46	1492.81	1463.43	1455.28		
449	31.360	1530.46	1492.82	1463.43	1455.28		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
450	31.430	1530.46	1492.81	1463.43	1455.28		
451	31.500	1530.46	1492.81	1463.43	1455.28		
452	31.570	1530.46	1492.81	1463.44	1455.28		
453	31.640	1530.46	1492.81	1463.44	1455.28		
454	31.710	1530.46	1492.81	1463.44	1455.29		
455	31.780	1530.46	1492.81	1463.44	1455.29		
456	31.850	1530.46	1492.81	1463.44	1455.29		
457	31.920	1530.46	1492.81	1463.44	1455.29		
458	31.990	1530.46	1492.81	1463.44	1455.29		
459	32.060	1530.46	1492.81	1463.44	1455.29		
460	32.130	1530.46	1492.81	1463.45	1455.29		
461	32.200	1530.46	1492.81	1463.45	1455.30		
462	32.270	1530.46	1492.81	1463.45	1455.30		
463	32.340	1530.46	1492.81	1463.45	1455.30		
464	32.410	1530.46	1492.81	1463.45	1455.30		
465	32.480	1530.46	1492.81	1463.45	1455.30		
466	32.550	1530.46	1492.81	1463.45	1455.30		
467	32.620	1530.46	1492.81	1463.45	1455.30		
468	32.690	1530.46	1492.81	1463.46	1455.31		
469	32.760	1530.46	1492.81	1463.46	1455.31		
470	32.830	1530.46	1492.81	1463.46	1455.31		
471	32.900	1530.46	1492.81	1463.46	1455.31		
472	32.970	1530.46	1492.81	1463.46	1455.31		
473	33.040	1530.46	1492.81	1463.46	1455.31		
474	33.110	1530.46	1492.81	1463.46	1455.31		
475	33.180	1530.46	1492.81	1463.46	1455.32		
476	33.250	1530.46	1492.81	1463.47	1455.32		
477	33.320	1530.46	1492.81	1463.47	1455.32		
478	33.390	1530.46	1492.81	1463.47	1455.32		
479	33.460	1530.46	1492.81	1463.47	1455.32		
480	33.530	1530.46	1492.81	1463.47	1455.32		
481	33.600	1530.46	1492.81	1463.47	1455.32		
482	33.670	1530.46	1492.81	1463.47	1455.33		
483	33.740	1530.46	1492.81	1463.47	1455.33		
484	33.810	1530.46	1492.81	1463.48	1455.33		
485	33.880	1530.46	1492.81	1463.48	1455.33		
486	33.950	1530.46	1492.81	1463.48	1455.33		
487	34.020	1530.46	1492.81	1463.48	1455.33		
488	34.090	1530.46	1492.81	1463.48	1455.33		
489	34.160	1530.46	1492.81	1463.48	1455.34		
490	34.230	1530.46	1492.81	1463.48	1455.34		
491	34.300	1530.46	1492.81	1463.48	1455.34		
492	34.370	1530.46	1492.81	1463.48	1455.34		
493	34.440	1530.46	1492.81	1463.49	1455.34		
494	34.510	1530.46	1492.81	1463.49	1455.34		
495	34.580	1530.46	1492.81	1463.49	1455.34		
496	34.650	1530.46	1492.81	1463.49	1455.34		
497	34.720	1530.46	1492.81	1463.49	1455.35		
498	34.790	1530.46	1492.81	1463.49	1455.35		
499	34.860	1530.46	1492.81	1463.49	1455.35		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
500	34.930	1530.46	1492.81	1463.49	1455.35		
501	35.000	1530.46	1492.81	1463.50	1455.35		
502	35.070	1530.46	1492.81	1463.50	1455.35		
503	35.140	1530.46	1492.81	1463.50	1455.35		
504	35.210	1530.46	1492.81	1463.50	1455.36		
505	35.280	1530.46	1492.81	1463.50	1455.36		
506	35.350	1530.46	1492.81	1463.50	1455.36		
507	35.420	1530.46	1492.81	1463.50	1455.36		
508	35.490	1530.46	1492.81	1463.50	1455.36		
509	35.560	1530.46	1492.81	1463.51	1455.36		
510	35.630	1530.46	1492.81	1463.51	1455.36		
511	35.700	1530.46	1492.81	1463.51	1455.37		
512	35.770	1530.46	1492.81	1463.51	1455.37		
513	35.840	1530.46	1492.81	1463.51	1455.37		
514	35.910	1530.46	1492.81	1463.51	1455.37		
515	35.980	1530.46	1492.81	1463.51	1455.37		
516	36.050	1530.46	1492.81	1463.51	1455.37		
517	36.120	1530.46	1492.81	1463.52	1455.37		
518	36.190	1530.46	1492.81	1463.52	1455.37		
519	36.260	1530.46	1492.81	1463.52	1455.38		
520	36.330	1530.46	1492.81	1463.52	1455.38		
521	36.400	1530.46	1492.81	1463.52	1455.38		
522	36.470	1530.46	1492.81	1463.52	1455.38		
523	36.540	1530.46	1492.81	1463.52	1455.38		
524	36.610	1530.46	1492.81	1463.52	1455.38		
525	36.680	1530.46	1492.81	1463.52	1455.38		
526	36.750	1530.46	1492.81	1463.53	1455.39		
527	36.820	1530.46	1492.81	1463.53	1455.39		
528	36.890	1530.46	1492.81	1463.53	1455.39		
529	36.960	1530.46	1492.81	1463.53	1455.39		
530	37.030	1530.46	1492.81	1463.53	1455.39		
531	37.100	1530.46	1492.81	1463.53	1455.39		
532	37.170	1530.46	1492.81	1463.53	1455.39		
533	37.240	1530.46	1492.81	1463.53	1455.40		
534	37.310	1530.46	1492.81	1463.54	1455.40		
535	37.380	1530.46	1492.81	1463.54	1455.40		
536	37.450	1530.46	1492.81	1463.54	1455.40		
537	37.520	1530.46	1492.81	1463.54	1455.40		
538	37.590	1530.46	1492.81	1463.54	1455.40		
539	37.660	1530.46	1492.81	1463.54	1455.40		
540	37.730	1530.46	1492.81	1463.54	1455.40		
541	37.800	1530.46	1492.81	1463.54	1455.41		
542	37.870	1530.46	1492.81	1463.54	1455.41		
543	37.940	1530.46	1492.81	1463.55	1455.41		
544	38.010	1530.46	1492.81	1463.55	1455.41		
545	38.080	1530.46	1492.81	1463.55	1455.41		
546	38.150	1530.46	1492.81	1463.55	1455.41		
547	38.220	1530.46	1492.81	1463.55	1455.41		
548	38.290	1530.46	1492.81	1463.55	1455.41		
549	38.360	1530.46	1492.81	1463.55	1455.42		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
550	38.430	1530.46	1492.81	1463.55	1455.42		
551	38.500	1530.46	1492.81	1463.56	1455.42		
552	38.570	1530.46	1492.81	1463.56	1455.42		
553	38.640	1530.46	1492.81	1463.56	1455.42		
554	38.710	1530.46	1492.81	1463.56	1455.42		
555	38.780	1530.46	1492.81	1463.56	1455.42		
556	38.850	1530.46	1492.81	1463.56	1455.43		
557	38.920	1530.46	1492.81	1463.56	1455.43		
558	38.990	1530.46	1492.81	1463.56	1455.43		
559	39.060	1530.46	1492.81	1463.56	1455.43		
560	39.130	1530.46	1492.81	1463.57	1455.43		
561	39.200	1530.46	1492.81	1463.57	1455.43		
562	39.270	1530.46	1492.81	1463.57	1455.43		
563	39.340	1530.46	1492.81	1463.57	1455.43		
564	39.410	1530.46	1492.81	1463.57	1455.44		
565	39.480	1530.46	1492.81	1463.57	1455.44		
566	39.550	1530.46	1492.81	1463.57	1455.44		
567	39.620	1530.46	1492.81	1463.57	1455.44		
568	39.690	1530.46	1492.81	1463.57	1455.44		
569	39.760	1530.46	1492.81	1463.58	1455.44		
570	39.830	1530.46	1492.81	1463.58	1455.44		
571	39.900	1530.46	1492.81	1463.58	1455.44		
572	39.970	1530.51	1492.81	1463.58	1455.45		
573	40.040	1530.56	1492.81	1463.58	1455.45		
574	40.110	1530.62	1492.82	1463.58	1455.45		
575	40.180	1530.67	1492.83	1463.58	1455.45		
576	40.250	1530.72	1492.85	1463.58	1455.45		
577	40.320	1530.78	1492.88	1463.58	1455.45		
578	40.390	1530.83	1492.91	1463.59	1455.45		
579	40.460	1530.88	1492.94	1463.59	1455.45		
580	40.530	1530.92	1492.98	1463.59	1455.46		
581	40.600	1530.97	1493.01	1463.60	1455.46		
582	40.670	1531.02	1493.04	1463.61	1455.46		
583	40.740	1531.07	1493.07	1463.62	1455.47		
584	40.810	1531.11	1493.10	1463.64	1455.49		
585	40.880	1531.16	1493.13	1463.66	1455.50		
586	40.950	1531.20	1493.16	1463.69	1455.53		
587	41.020	1531.24	1493.19	1463.72	1455.55		
588	41.090	1531.29	1493.22	1463.75	1455.59		
589	41.160	1531.33	1493.25	1463.79	1455.62		
590	41.230	1531.37	1493.28	1463.82	1455.66		
591	41.300	1531.41	1493.30	1463.85	1455.69		
592	41.370	1531.45	1493.33	1463.89	1455.73		
593	41.440	1531.49	1493.36	1463.92	1455.77		
594	41.510	1531.53	1493.39	1463.95	1455.80		
595	41.580	1531.57	1493.41	1463.99	1455.84		
596	41.650	1531.61	1493.44	1464.02	1455.88		
597	41.720	1531.65	1493.46	1464.05	1455.91		
598	41.790	1531.69	1493.49	1464.08	1455.95		
599	41.860	1531.73	1493.51	1464.11	1455.98		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
600	41.930	1531.76	1493.54	1464.14	1456.02		
601	42.000	1531.80	1493.56	1464.18	1456.05		
602	42.070	1533.72	1493.60	1464.20	1456.08		
603	42.140	1535.31	1493.75	1464.23	1456.12		
604	42.210	1536.47	1494.33	1464.26	1456.15		
605	42.280	1537.48	1495.46	1464.30	1456.18		
606	42.350	1538.36	1496.58	1464.36	1456.22		
607	42.420	1539.15	1497.39	1464.52	1456.29		
608	42.490	1539.88	1498.00	1464.98	1456.46		
609	42.560	1540.79	1498.57	1465.89	1456.89		
610	42.630	1541.73	1499.15	1467.16	1457.67		
611	42.665	1542.15	1499.46	1467.84	1458.42		
612	42.700	1542.55	1499.79	1468.52	1459.34		
613	42.770	1543.30	1500.44	1469.78	1460.65		
614	42.840	1544.02	1501.04	1470.85	1461.56		
615	42.910	1544.70	1501.64	1471.49	1462.27		
616	42.980	1545.34	1502.21	1472.04	1462.64		
617	43.050	1545.96	1502.73	1473.22	1462.86		
618	43.120	1546.56	1503.22	1473.80	1463.25		
619	43.190	1547.14	1503.70	1474.10	1463.77		
620	43.260	1547.70	1504.17	1474.41	1464.24		
621	43.330	1548.25	1504.62	1474.66	1464.62		
622	43.400	1548.78	1505.06	1474.92	1464.96		
623	43.470	1549.30	1505.48	1475.15	1465.44		
624	43.540	1549.80	1505.89	1475.37	1465.87		
625	43.610	1550.30	1506.30	1475.58	1466.13		
626	43.680	1550.78	1506.70	1475.79	1466.31		
627	43.750	1550.87	1507.03	1475.98	1466.49		
628	43.820	1550.72	1507.16	1476.15	1466.65		
629	43.890	1550.55	1507.09	1476.27	1466.78		
630	43.960	1550.38	1506.96	1476.32	1466.87		
631	44.030	1550.22	1506.83	1476.31	1466.90		
632	44.100	1550.05	1506.70	1476.27	1466.88		
633	44.170	1549.87	1506.57	1476.21	1466.84		
634	44.240	1549.70	1506.43	1476.15	1466.80		
635	44.310	1549.53	1506.30	1476.09	1466.75		
636	44.380	1549.35	1506.17	1476.02	1466.71		
637	44.450	1549.17	1506.03	1475.96	1466.66		
638	44.520	1548.99	1505.90	1475.90	1466.61		
639	44.590	1548.81	1505.76	1475.83	1466.56		
640	44.660	1548.63	1505.62	1475.77	1466.51		
641	44.730	1548.45	1505.48	1475.70	1466.46		
642	44.800	1548.26	1505.34	1475.64	1466.41		
643	44.870	1548.08	1505.20	1475.57	1466.36		
644	44.940	1547.89	1505.05	1475.50	1466.30		
645	45.010	1547.70	1504.91	1475.43	1466.25		
646	45.080	1547.53	1504.77	1475.36	1466.20		
647	45.150	1547.35	1504.63	1475.30	1466.14		
648	45.220	1547.17	1504.50	1475.23	1466.09		
649	45.290	1546.99	1504.37	1475.17	1466.04		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
650	45.360	1546.81	1504.23	1475.11	1465.98		
651	45.430	1546.62	1504.09	1475.05	1465.90		
652	45.500	1546.44	1503.95	1474.99	1465.78		
653	45.570	1546.25	1503.81	1474.92	1465.65		
654	45.640	1546.06	1503.67	1474.86	1465.50		
655	45.710	1545.87	1503.53	1474.80	1465.33		
656	45.780	1545.68	1503.38	1474.73	1465.15		
657	45.850	1545.48	1503.24	1474.67	1464.96		
658	45.920	1545.29	1503.09	1474.60	1464.85		
659	45.990	1545.08	1502.95	1474.54	1464.79		
660	46.060	1544.88	1502.80	1474.47	1464.72		
661	46.130	1544.67	1502.65	1474.41	1464.66		
662	46.200	1544.46	1502.50	1474.34	1464.59		
663	46.270	1544.25	1502.35	1474.27	1464.52		
664	46.340	1544.04	1502.19	1474.20	1464.45		
665	46.410	1543.82	1502.03	1474.13	1464.38		
666	46.480	1543.60	1501.86	1474.06	1464.31		
667	46.550	1543.37	1501.69	1473.98	1464.23		
668	46.620	1543.13	1501.52	1473.91	1464.15		
669	46.690	1542.89	1501.34	1473.84	1464.08		
670	46.760	1542.65	1501.16	1473.76	1464.00		
671	46.830	1542.41	1500.98	1473.69	1463.91		
672	46.900	1542.16	1500.81	1473.61	1463.83		
673	46.970	1541.91	1500.64	1473.53	1463.74		
674	47.040	1541.72	1500.46	1473.44	1463.65		
675	47.110	1541.60	1500.31	1473.36	1463.57		
676	47.180	1541.49	1500.20	1473.28	1463.47		
677	47.250	1541.38	1500.11	1473.20	1463.38		
678	47.320	1541.27	1500.04	1473.12	1463.30		
679	47.390	1541.16	1499.97	1473.04	1463.22		
680	47.460	1541.04	1499.89	1472.97	1463.15		
681	47.530	1540.93	1499.81	1472.91	1463.09		
682	47.600	1540.81	1499.73	1472.84	1463.04		
683	47.670	1540.70	1499.65	1472.76	1462.99		
684	47.740	1540.58	1499.57	1472.66	1462.95		
685	47.810	1540.46	1499.49	1472.56	1462.91		
686	47.880	1540.34	1499.41	1472.36	1462.87		
687	47.950	1540.22	1499.32	1472.05	1462.82		
688	48.020	1540.10	1499.24	1471.77	1462.78		
689	48.090	1539.97	1499.15	1471.50	1462.76		
690	48.160	1539.84	1499.07	1471.50	1462.76		
691	48.230	1539.70	1498.98	1471.49	1462.76		
692	48.300	1539.56	1498.89	1471.35	1462.74		
693	48.370	1539.42	1498.80	1471.06	1462.66		
694	48.440	1539.27	1498.70	1470.87	1462.54		
695	48.510	1539.12	1498.61	1470.76	1462.44		
696	48.580	1538.97	1498.52	1470.64	1462.38		
697	48.650	1538.82	1498.42	1470.54	1462.32		
698	48.720	1538.66	1498.32	1470.43	1462.27		
699	48.790	1538.50	1498.22	1470.32	1462.22		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
700	48.860	1538.34	1498.12	1470.21	1462.17		
701	48.930	1538.21	1498.01	1470.10	1462.12		
702	49.000	1538.14	1497.92	1469.98	1462.07		
703	49.070	1538.07	1497.84	1469.87	1462.02		
704	49.140	1538.01	1497.78	1469.76	1461.96		
705	49.210	1537.94	1497.74	1469.65	1461.90		
706	49.280	1537.88	1497.70	1469.56	1461.84		
707	49.350	1537.81	1497.66	1469.49	1461.79		
708	49.420	1537.75	1497.61	1469.42	1461.75		
709	49.490	1537.68	1497.57	1469.37	1461.71		
710	49.560	1537.61	1497.53	1469.32	1461.68		
711	49.630	1537.54	1497.48	1469.28	1461.66		
712	49.700	1537.47	1497.44	1469.23	1461.63		
713	49.770	1537.40	1497.39	1469.18	1461.61		
714	49.840	1537.33	1497.35	1469.14	1461.58		
715	49.910	1537.26	1497.30	1469.09	1461.55		
716	49.980	1537.19	1497.26	1469.04	1461.53		
717	50.050	1537.12	1497.21	1468.99	1461.50		
718	50.120	1537.05	1497.16	1468.94	1461.47		
719	50.190	1536.97	1497.12	1468.89	1461.44		
720	50.260	1536.90	1497.07	1468.83	1461.42		
721	50.330	1536.82	1497.02	1468.78	1461.39		
722	50.400	1536.75	1496.97	1468.72	1461.36		
723	50.470	1536.67	1496.92	1468.67	1461.33		
724	50.540	1536.59	1496.87	1468.61	1461.30		
725	50.610	1536.51	1496.82	1468.56	1461.27		
726	50.680	1536.43	1496.77	1468.50	1461.24		
727	50.750	1536.35	1496.72	1468.44	1461.20		
728	50.820	1536.27	1496.67	1468.38	1461.17		
729	50.890	1536.18	1496.62	1468.32	1461.14		
730	50.960	1536.10	1496.56	1468.25	1461.11		
731	51.030	1536.01	1496.51	1468.19	1461.07		
732	51.100	1535.93	1496.45	1468.12	1461.04		
733	51.170	1535.84	1496.40	1468.06	1461.00		
734	51.240	1535.75	1496.34	1467.99	1460.97		
735	51.310	1535.66	1496.29	1467.92	1460.93		
736	51.380	1535.59	1496.23	1467.85	1460.89		
737	51.450	1535.53	1496.18	1467.78	1460.85		
738	51.520	1535.46	1496.13	1467.71	1460.81		
739	51.590	1535.39	1496.08	1467.64	1460.77		
740	51.660	1535.32	1496.04	1467.57	1460.73		
741	51.730	1535.25	1495.99	1467.51	1460.69		
742	51.800	1535.18	1495.95	1467.44	1460.65		
743	51.870	1535.11	1495.90	1467.38	1460.61		
744	51.940	1535.03	1495.86	1467.33	1460.57		
745	52.010	1534.96	1495.81	1467.27	1460.53		
746	52.080	1534.88	1495.76	1467.22	1460.49		
747	52.150	1534.81	1495.72	1467.17	1460.45		
748	52.220	1534.73	1495.67	1467.11	1460.42		
749	52.290	1534.65	1495.62	1467.06	1460.38		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
750	52.360	1534.57	1495.57	1467.00	1460.34		
751	52.430	1534.49	1495.52	1466.95	1460.30		
752	52.500	1534.41	1495.47	1466.89	1460.26		
753	52.570	1534.33	1495.41	1466.84	1460.22		
754	52.640	1534.24	1495.36	1466.78	1460.17		
755	52.710	1534.16	1495.31	1466.72	1460.13		
756	52.780	1534.07	1495.25	1466.66	1460.08		
757	52.850	1533.98	1495.20	1466.60	1460.03		
758	52.920	1533.89	1495.14	1466.54	1459.97		
759	52.990	1533.80	1495.09	1466.48	1459.92		
760	53.060	1533.70	1495.03	1466.42	1459.87		
761	53.130	1533.60	1494.97	1466.36	1459.82		
762	53.200	1533.50	1494.91	1466.30	1459.76		
763	53.270	1533.40	1494.85	1466.23	1459.71		
764	53.340	1533.30	1494.79	1466.17	1459.65		
765	53.410	1533.20	1494.73	1466.10	1459.59		
766	53.480	1533.16	1494.66	1466.03	1459.53		
767	53.550	1533.12	1494.60	1465.97	1459.46		
768	53.620	1533.08	1494.55	1465.90	1459.39		
769	53.690	1533.04	1494.51	1465.83	1459.32		
770	53.760	1533.00	1494.49	1465.76	1459.24		
771	53.830	1532.96	1494.46	1465.69	1459.15		
772	53.900	1532.92	1494.44	1465.62	1459.06		
773	53.970	1532.88	1494.41	1465.56	1458.97		
774	54.040	1532.84	1494.39	1465.51	1458.87		
775	54.110	1532.80	1494.36	1465.47	1458.76		
776	54.180	1532.76	1494.34	1465.43	1458.65		
777	54.250	1532.72	1494.31	1465.40	1458.51		
778	54.320	1532.68	1494.29	1465.37	1458.29		
779	54.390	1532.63	1494.26	1465.34	1457.90		
780	54.460	1532.59	1494.23	1465.31	1457.71		
781	54.530	1532.55	1494.20	1465.28	1457.62		
782	54.600	1532.50	1494.18	1465.25	1457.54		
783	54.670	1532.46	1494.15	1465.22	1457.49		
784	54.740	1532.41	1494.12	1465.19	1457.43		
785	54.810	1532.37	1494.09	1465.16	1457.38		
786	54.880	1532.32	1494.07	1465.13	1457.33		
787	54.950	1532.27	1494.04	1465.10	1457.29		
788	55.020	1532.23	1494.01	1465.06	1457.24		
789	55.090	1532.18	1493.98	1465.03	1457.19		
790	55.160	1532.13	1493.95	1465.00	1457.15		
791	55.230	1532.10	1493.92	1464.97	1457.11		
792	55.300	1532.09	1493.89	1464.94	1457.07		
793	55.370	1532.09	1493.86	1464.90	1457.02		
794	55.440	1532.08	1493.84	1464.87	1456.98		
795	55.510	1532.08	1493.83	1464.84	1456.94		
796	55.580	1532.07	1493.82	1464.80	1456.90		
797	55.650	1532.07	1493.82	1464.77	1456.86		
798	55.720	1532.07	1493.82	1464.74	1456.82		
799	55.790	1532.06	1493.82	1464.72	1456.78		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
800	55.860	1532.06	1493.82	1464.69	1456.75		
801	55.930	1532.06	1493.81	1464.68	1456.72		
802	56.000	1532.05	1493.81	1464.67	1456.70		
803	56.070	1532.05	1493.81	1464.66	1456.68		
804	56.140	1532.05	1493.81	1464.66	1456.67		
805	56.210	1532.04	1493.80	1464.65	1456.66		
806	56.280	1532.04	1493.80	1464.65	1456.65		
807	56.350	1532.04	1493.80	1464.65	1456.65		
808	56.420	1532.03	1493.80	1464.64	1456.64		
809	56.490	1532.03	1493.79	1464.64	1456.64		
810	56.560	1532.02	1493.79	1464.64	1456.63		
811	56.630	1532.02	1493.79	1464.64	1456.63		
812	56.700	1532.02	1493.79	1464.63	1456.63		
813	56.770	1532.01	1493.79	1464.63	1456.62		
814	56.840	1532.01	1493.78	1464.63	1456.62		
815	56.910	1532.01	1493.78	1464.63	1456.62		
816	56.980	1532.00	1493.78	1464.62	1456.61		
817	57.050	1532.00	1493.78	1464.62	1456.61		
818	57.120	1531.99	1493.77	1464.62	1456.61		
819	57.190	1531.99	1493.77	1464.61	1456.60		
820	57.260	1531.99	1493.77	1464.61	1456.60		
821	57.330	1531.98	1493.77	1464.61	1456.60		
822	57.400	1531.98	1493.76	1464.61	1456.59		
823	57.470	1531.98	1493.76	1464.60	1456.59		
824	57.540	1531.97	1493.76	1464.60	1456.59		
825	57.610	1531.97	1493.76	1464.60	1456.58		
826	57.680	1531.96	1493.75	1464.60	1456.58		
827	57.750	1531.96	1493.75	1464.59	1456.58		
828	57.820	1531.96	1493.75	1464.59	1456.57		
829	57.890	1531.95	1493.75	1464.59	1456.57		
830	57.960	1531.95	1493.75	1464.58	1456.57		
831	58.030	1531.95	1493.74	1464.58	1456.56		
832	58.100	1531.94	1493.74	1464.58	1456.56		
833	58.170	1531.94	1493.74	1464.58	1456.56		
834	58.240	1531.94	1493.74	1464.57	1456.56		
835	58.310	1531.93	1493.73	1464.57	1456.55		
836	58.380	1531.93	1493.73	1464.57	1456.55		
837	58.450	1531.92	1493.73	1464.57	1456.55		
838	58.520	1531.92	1493.73	1464.56	1456.54		
839	58.590	1531.92	1493.72	1464.56	1456.54		
840	58.660	1531.91	1493.72	1464.56	1456.54		
841	58.730	1531.91	1493.72	1464.55	1456.54		
842	58.800	1531.90	1493.72	1464.55	1456.53		
843	58.870	1531.90	1493.71	1464.55	1456.53		
844	58.940	1531.90	1493.71	1464.55	1456.53		
845	59.010	1531.89	1493.71	1464.54	1456.52		
846	59.080	1531.89	1493.71	1464.54	1456.52		
847	59.150	1531.89	1493.70	1464.54	1456.52		
848	59.220	1531.88	1493.70	1464.54	1456.51		
849	59.290	1531.88	1493.70	1464.53	1456.51		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
850	59.360	1531.87	1493.70	1464.53	1456.51		
851	59.430	1531.87	1493.69	1464.53	1456.50		
852	59.500	1531.87	1493.69	1464.52	1456.50		
853	59.570	1531.86	1493.69	1464.52	1456.50		
854	59.640	1531.86	1493.69	1464.52	1456.50		
855	59.710	1531.86	1493.69	1464.52	1456.49		
856	59.780	1531.85	1493.68	1464.51	1456.49		
857	59.850	1531.85	1493.68	1464.51	1456.49		
858	59.920	1531.84	1493.68	1464.51	1456.48		
859	59.990	1531.84	1493.68	1464.51	1456.48		
860	60.060	1531.84	1493.67	1464.50	1456.48		
861	60.130	1531.83	1493.67	1464.50	1456.47		
862	60.200	1531.83	1493.67	1464.50	1456.47		
863	60.270	1531.82	1493.67	1464.49	1456.47		
864	60.340	1531.82	1493.66	1464.49	1456.47		
865	60.410	1531.82	1493.66	1464.49	1456.46		
866	60.480	1531.81	1493.66	1464.49	1456.46		
867	60.550	1531.81	1493.66	1464.48	1456.46		
868	60.620	1531.80	1493.65	1464.48	1456.45		
869	60.690	1531.80	1493.65	1464.48	1456.45		
870	60.760	1531.80	1493.65	1464.47	1456.45		
871	60.830	1531.79	1493.65	1464.47	1456.44		
872	60.900	1531.79	1493.64	1464.47	1456.44		
873	60.970	1531.79	1493.64	1464.47	1456.44		
874	61.040	1531.78	1493.64	1464.46	1456.43		
875	61.110	1531.78	1493.64	1464.46	1456.43		
876	61.180	1531.77	1493.63	1464.46	1456.43		
877	61.250	1531.77	1493.63	1464.46	1456.43		
878	61.320	1531.77	1493.63	1464.45	1456.42		
879	61.390	1531.76	1493.63	1464.45	1456.42		
880	61.460	1531.76	1493.62	1464.45	1456.42		
881	61.530	1531.75	1493.62	1464.44	1456.41		
882	61.600	1531.75	1493.62	1464.44	1456.41		
883	61.670	1531.75	1493.62	1464.44	1456.41		
884	61.740	1531.74	1493.61	1464.44	1456.40		
885	61.810	1531.74	1493.61	1464.43	1456.40		
886	61.880	1531.73	1493.61	1464.43	1456.40		
887	61.950	1531.73	1493.61	1464.43	1456.39		
888	62.020	1531.73	1493.60	1464.42	1456.39		
889	62.090	1531.72	1493.60	1464.42	1456.39		
890	62.160	1531.72	1493.60	1464.42	1456.39		
891	62.230	1531.71	1493.60	1464.42	1456.38		
892	62.300	1531.71	1493.59	1464.41	1456.38		
893	62.370	1531.71	1493.59	1464.41	1456.38		
894	62.440	1531.70	1493.59	1464.41	1456.37		
895	62.510	1531.70	1493.59	1464.40	1456.37		
896	62.580	1531.69	1493.58	1464.40	1456.37		
897	62.650	1531.69	1493.58	1464.40	1456.36		
898	62.720	1531.69	1493.58	1464.40	1456.36		
899	62.790	1531.68	1493.58	1464.39	1456.36		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
900	62.860	1531.68	1493.57	1464.39	1456.35		
901	62.930	1531.67	1493.57	1464.39	1456.35		
902	63.000	1531.67	1493.57	1464.38	1456.35		
903	63.070	1531.66	1493.57	1464.38	1456.34		
904	63.140	1531.66	1493.56	1464.38	1456.34		
905	63.210	1531.66	1493.56	1464.38	1456.34		
906	63.280	1531.65	1493.56	1464.37	1456.33		
907	63.350	1531.65	1493.55	1464.37	1456.33		
908	63.420	1531.64	1493.55	1464.37	1456.33		
909	63.490	1531.64	1493.55	1464.36	1456.33		
910	63.560	1531.64	1493.55	1464.36	1456.32		
911	63.630	1531.63	1493.54	1464.36	1456.32		
912	63.700	1531.63	1493.54	1464.35	1456.32		
913	63.770	1531.62	1493.54	1464.35	1456.31		
914	63.840	1531.62	1493.54	1464.35	1456.31		
915	63.910	1531.62	1493.53	1464.35	1456.31		
916	63.980	1531.61	1493.53	1464.34	1456.30		
917	64.050	1531.61	1493.53	1464.34	1456.30		
918	64.120	1531.60	1493.53	1464.34	1456.30		
919	64.190	1531.60	1493.52	1464.33	1456.29		
920	64.260	1531.59	1493.52	1464.33	1456.29		
921	64.330	1531.59	1493.52	1464.33	1456.29		
922	64.400	1531.59	1493.52	1464.33	1456.28		
923	64.470	1531.58	1493.51	1464.32	1456.28		
924	64.540	1531.58	1493.51	1464.32	1456.28		
925	64.610	1531.57	1493.51	1464.32	1456.27		
926	64.680	1531.57	1493.51	1464.31	1456.27		
927	64.750	1531.57	1493.50	1464.31	1456.27		
928	64.820	1531.56	1493.50	1464.31	1456.26		
929	64.890	1531.56	1493.50	1464.30	1456.26		
930	64.960	1531.55	1493.49	1464.30	1456.26		
931	65.030	1531.55	1493.49	1464.30	1456.25		
932	65.100	1531.54	1493.49	1464.30	1456.25		
933	65.170	1531.54	1493.49	1464.29	1456.25		
934	65.240	1531.54	1493.48	1464.29	1456.24		
935	65.310	1531.53	1493.48	1464.29	1456.24		
936	65.380	1531.53	1493.48	1464.28	1456.24		
937	65.450	1531.52	1493.48	1464.28	1456.23		
938	65.520	1531.52	1493.47	1464.28	1456.23		
939	65.590	1531.51	1493.47	1464.27	1456.23		
940	65.660	1531.51	1493.47	1464.27	1456.23		
941	65.730	1531.51	1493.47	1464.27	1456.22		
942	65.800	1531.50	1493.46	1464.27	1456.22		
943	65.870	1531.50	1493.46	1464.26	1456.22		
944	65.940	1531.49	1493.46	1464.26	1456.21		
945	66.010	1531.49	1493.45	1464.26	1456.21		
946	66.080	1531.48	1493.45	1464.25	1456.21		
947	66.150	1531.48	1493.45	1464.25	1456.20		
948	66.220	1531.48	1493.45	1464.25	1456.20		
949	66.290	1531.47	1493.44	1464.24	1456.20		

BOSS DAMBRK version 2.00
PROJECT TITLE : 72-HR Q=306,918 FLOW SOUTH
PROJECT NUMBER : 8851485F

2/18/1990

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
950	66.360	1531.47	1493.44	1464.24	1456.19		
951	66.430	1531.46	1493.44	1464.24	1456.19		
952	66.500	1531.46	1493.44	1464.24	1456.19		
953	66.570	1531.45	1493.43	1464.23	1456.18		
954	66.640	1531.45	1493.43	1464.23	1456.18		
955	66.710	1531.45	1493.43	1464.23	1456.18		
956	66.780	1531.44	1493.42	1464.22	1456.17		
957	66.850	1531.44	1493.42	1464.22	1456.17		
958	66.920	1531.43	1493.42	1464.22	1456.17		
959	66.990	1531.43	1493.42	1464.21	1456.16		
960	67.060	1531.42	1493.41	1464.21	1456.16		
961	67.130	1531.42	1493.41	1464.21	1456.16		
962	67.200	1531.41	1493.41	1464.21	1456.15		
963	67.270	1531.41	1493.41	1464.20	1456.15		
964	67.340	1531.41	1493.40	1464.20	1456.15		
965	67.410	1531.40	1493.40	1464.20	1456.14		
966	67.480	1531.40	1493.40	1464.19	1456.14		
967	67.550	1531.39	1493.39	1464.19	1456.13		
968	67.620	1531.39	1493.39	1464.19	1456.13		
969	67.690	1531.38	1493.39	1464.18	1456.13		
970	67.760	1531.38	1493.39	1464.18	1456.12		
971	67.830	1531.37	1493.38	1464.18	1456.12		
972	67.900	1531.37	1493.38	1464.17	1456.12		
973	67.970	1531.37	1493.38	1464.17	1456.11		
974	68.040	1531.36	1493.38	1464.17	1456.11		
975	68.110	1531.36	1493.37	1464.17	1456.11		
976	68.180	1531.35	1493.37	1464.16	1456.10		
977	68.250	1531.35	1493.37	1464.16	1456.10		
978	68.320	1531.34	1493.36	1464.16	1456.10		
979	68.390	1531.34	1493.36	1464.15	1456.09		
980	68.460	1531.33	1493.36	1464.15	1456.09		
981	68.530	1531.33	1493.36	1464.15	1456.09		
982	68.600	1531.32	1493.35	1464.14	1456.08		
983	68.670	1531.32	1493.35	1464.14	1456.08		
984	68.740	1531.32	1493.35	1464.14	1456.08		
985	68.810	1531.31	1493.34	1464.13	1456.07		
986	68.880	1531.31	1493.34	1464.13	1456.07		
987	68.950	1531.30	1493.34	1464.13	1456.07		
988	69.020	1531.30	1493.34	1464.12	1456.06		
989	69.090	1531.29	1493.33	1464.12	1456.06		
990	69.160	1531.29	1493.33	1464.12	1456.06		
991	69.230	1531.28	1493.33	1464.12	1456.05		
992	69.300	1531.28	1493.32	1464.11	1456.05		
993	69.370	1531.27	1493.32	1464.11	1456.05		
994	69.440	1531.27	1493.32	1464.11	1456.04		
995	69.510	1531.26	1493.32	1464.10	1456.04		
996	69.580	1531.26	1493.31	1464.10	1456.04		
997	69.650	1531.26	1493.31	1464.10	1456.03		
998	69.720	1531.25	1493.31	1464.09	1456.03		
999	69.790	1531.25	1493.30	1464.09	1456.02		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
1000	69.860	1531.24	1493.30	1464.09	1456.02		
1001	69.930	1531.24	1493.30	1464.08	1456.02		
1002	70.000	1531.23	1493.30	1464.08	1456.01		
1003	70.070	1531.23	1493.29	1464.08	1456.01		
1004	70.140	1531.22	1493.29	1464.07	1456.01		
1005	70.210	1531.22	1493.29	1464.07	1456.00		
1006	70.280	1531.21	1493.28	1464.07	1456.00		
1007	70.350	1531.21	1493.28	1464.06	1456.00		
1008	70.420	1531.20	1493.28	1464.06	1455.99		
1009	70.490	1531.20	1493.27	1464.06	1455.99		
1010	70.560	1531.19	1493.27	1464.05	1455.99		
1011	70.630	1531.19	1493.27	1464.05	1455.98		
1012	70.700	1531.18	1493.27	1464.05	1455.98		
1013	70.770	1531.18	1493.26	1464.04	1455.98		
1014	70.840	1531.17	1493.26	1464.04	1455.97		
1015	70.910	1531.17	1493.26	1464.04	1455.97		
1016	70.980	1531.17	1493.25	1464.04	1455.96		
1017	71.050	1531.16	1493.25	1464.03	1455.96		
1018	71.120	1531.16	1493.25	1464.03	1455.96		
1019	71.190	1531.15	1493.25	1464.03	1455.95		
1020	71.260	1531.15	1493.24	1464.02	1455.95		
1021	71.330	1531.14	1493.24	1464.02	1455.95		
1022	71.400	1531.14	1493.24	1464.02	1455.94		
1023	71.470	1531.13	1493.23	1464.01	1455.94		
1024	71.540	1531.13	1493.23	1464.01	1455.94		
1025	71.610	1531.12	1493.23	1464.01	1455.93		
1026	71.680	1531.12	1493.22	1464.00	1455.93		
1027	71.750	1531.11	1493.22	1464.00	1455.93		
1028	71.820	1531.11	1493.22	1464.00	1455.92		
1029	71.890	1531.10	1493.22	1463.99	1455.92		
1030	71.960	1531.10	1493.21	1463.99	1455.91		
1031	72.030	1531.09	1493.21	1463.99	1455.91		
1032	72.100	1531.09	1493.21	1463.98	1455.91		
1033	72.170	1531.08	1493.20	1463.98	1455.90		
1034	72.240	1531.08	1493.20	1463.98	1455.90		
1035	72.310	1531.07	1493.20	1463.97	1455.90		
1036	72.380	1531.07	1493.19	1463.97	1455.89		
1037	72.450	1531.06	1493.19	1463.97	1455.89		
1038	72.520	1531.06	1493.19	1463.96	1455.88		
1039	72.590	1531.05	1493.19	1463.96	1455.88		
1040	72.660	1531.05	1493.18	1463.96	1455.88		
1041	72.730	1531.04	1493.18	1463.95	1455.87		
1042	72.800	1531.04	1493.18	1463.95	1455.87		
1043	72.870	1531.03	1493.17	1463.95	1455.87		
1044	72.940	1531.03	1493.17	1463.94	1455.86		
1045	73.010	1531.02	1493.17	1463.94	1455.86		
1046	73.080	1531.02	1493.16	1463.94	1455.86		
1047	73.150	1531.01	1493.16	1463.93	1455.85		
1048	73.220	1531.01	1493.16	1463.93	1455.85		
1049	73.290	1531.00	1493.15	1463.93	1455.84		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
1050	73.360	1531.00	1493.15	1463.92	1455.84		
1051	73.430	1530.99	1493.15	1463.92	1455.84		
1052	73.500	1530.99	1493.15	1463.92	1455.83		
1053	73.570	1530.98	1493.14	1463.91	1455.83		
1054	73.640	1530.98	1493.14	1463.91	1455.83		
1055	73.710	1530.97	1493.14	1463.91	1455.82		
1056	73.780	1530.97	1493.13	1463.90	1455.82		
1057	73.850	1530.96	1493.13	1463.90	1455.81		
1058	73.920	1530.96	1493.13	1463.90	1455.81		
1059	73.990	1530.95	1493.12	1463.89	1455.81		
1060	74.060	1530.95	1493.12	1463.89	1455.80		
1061	74.130	1530.94	1493.12	1463.89	1455.80		
1062	74.200	1530.94	1493.11	1463.88	1455.80		
1063	74.270	1530.93	1493.11	1463.88	1455.79		
1064	74.340	1530.93	1493.11	1463.88	1455.79		
1065	74.410	1530.92	1493.10	1463.87	1455.78		
1066	74.480	1530.92	1493.10	1463.87	1455.78		
1067	74.550	1530.91	1493.10	1463.87	1455.78		
1068	74.620	1530.90	1493.09	1463.86	1455.77		
1069	74.690	1530.90	1493.09	1463.86	1455.77		
1070	74.760	1530.89	1493.09	1463.85	1455.76		
1071	74.830	1530.89	1493.08	1463.85	1455.76		
1072	74.900	1530.88	1493.08	1463.85	1455.76		
1073	74.970	1530.88	1493.08	1463.84	1455.75		
1074	75.040	1530.87	1493.08	1463.84	1455.75		
1075	75.110	1530.87	1493.07	1463.84	1455.75		
1076	75.180	1530.86	1493.07	1463.83	1455.74		
1077	75.250	1530.86	1493.07	1463.83	1455.74		
1078	75.320	1530.85	1493.06	1463.83	1455.73		
1079	75.390	1530.85	1493.06	1463.82	1455.73		
1080	75.460	1530.84	1493.06	1463.82	1455.73		
1081	75.530	1530.84	1493.05	1463.82	1455.72		
1082	75.600	1530.83	1493.05	1463.81	1455.72		
1083	75.670	1530.83	1493.05	1463.81	1455.71		
1084	75.740	1530.82	1493.04	1463.81	1455.71		
1085	75.810	1530.81	1493.04	1463.80	1455.71		
1086	75.880	1530.81	1493.04	1463.80	1455.70		
1087	75.950	1530.80	1493.03	1463.80	1455.70		
1088	76.020	1530.80	1493.03	1463.79	1455.70		
1089	76.090	1530.79	1493.03	1463.79	1455.69		
1090	76.160	1530.79	1493.02	1463.78	1455.69		
1091	76.230	1530.78	1493.02	1463.78	1455.68		
1092	76.300	1530.78	1493.02	1463.78	1455.68		
1093	76.370	1530.77	1493.01	1463.77	1455.68		
1094	76.440	1530.77	1493.01	1463.77	1455.67		
1095	76.510	1530.76	1493.01	1463.77	1455.67		
1096	76.580	1530.75	1493.00	1463.76	1455.66		
1097	76.650	1530.75	1493.00	1463.76	1455.66		
1098	76.720	1530.74	1493.00	1463.76	1455.66		
1099	76.790	1530.74	1492.99	1463.75	1455.65		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
1100	76.860	1530.73	1492.99	1463.75	1455.65		
1101	76.930	1530.73	1492.99	1463.75	1455.64		
1102	77.000	1530.72	1492.98	1463.74	1455.64		
1103	77.070	1530.71	1492.98	1463.74	1455.64		
1104	77.140	1530.71	1492.98	1463.73	1455.63		
1105	77.210	1530.70	1492.97	1463.73	1455.63		
1106	77.280	1530.70	1492.97	1463.73	1455.62		
1107	77.350	1530.69	1492.97	1463.72	1455.62		
1108	77.420	1530.69	1492.96	1463.72	1455.62		
1109	77.490	1530.68	1492.96	1463.72	1455.61		
1110	77.560	1530.68	1492.96	1463.71	1455.61		
1111	77.630	1530.67	1492.95	1463.71	1455.60		
1112	77.700	1530.66	1492.95	1463.71	1455.60		
1113	77.770	1530.66	1492.95	1463.70	1455.59		
1114	77.840	1530.65	1492.94	1463.70	1455.59		
1115	77.910	1530.65	1492.94	1463.70	1455.59		
1116	77.980	1530.64	1492.93	1463.69	1455.58		
1117	78.050	1530.63	1492.93	1463.69	1455.58		
1118	78.120	1530.63	1492.93	1463.68	1455.57		
1119	78.190	1530.62	1492.92	1463.68	1455.57		
1120	78.260	1530.62	1492.92	1463.68	1455.57		
1121	78.330	1530.61	1492.92	1463.67	1455.56		
1122	78.400	1530.61	1492.91	1463.67	1455.56		
1123	78.470	1530.60	1492.91	1463.67	1455.55		
1124	78.540	1530.59	1492.91	1463.66	1455.55		
1125	78.610	1530.59	1492.90	1463.66	1455.55		
1126	78.680	1530.58	1492.90	1463.66	1455.54		
1127	78.750	1530.58	1492.90	1463.65	1455.54		
1128	78.820	1530.57	1492.89	1463.65	1455.54		
1129	78.890	1530.56	1492.89	1463.65	1455.53		
1130	78.960	1530.56	1492.89	1463.65	1455.53		
1131	79.030	1530.55	1492.88	1463.64	1455.53		
1132	79.100	1530.55	1492.88	1463.64	1455.53		
1133	79.170	1530.54	1492.87	1463.64	1455.52		
1134	79.240	1530.53	1492.87	1463.64	1455.52		
1135	79.310	1530.53	1492.87	1463.63	1455.52		
1136	79.380	1530.52	1492.86	1463.63	1455.51		
1137	79.450	1530.52	1492.86	1463.63	1455.51		
1138	79.520	1530.51	1492.86	1463.63	1455.51		
1139	79.590	1530.50	1492.85	1463.62	1455.51		
1140	79.660	1530.50	1492.85	1463.62	1455.50		
1141	79.730	1530.49	1492.85	1463.62	1455.50		
1142	79.800	1530.49	1492.84	1463.62	1455.50		
1143	79.870	1530.48	1492.84	1463.61	1455.49		

COMPUTED DISCHARGES AT REQUESTED
STATIONS WHERE HYDROGRAPHS ARE PLOTTED :

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs E3)	Station 2 Discharge QC(K,2) (cfs E3)	Station 3 Discharge QC(K,3) (cfs E3)	Station 4 Discharge QC(K,4) (cfs E3)	Station 5 Discharge QC(K,5) (cfs E3)	Station 6 Discharge QC(K,6) (cfs E3)
1	.000	3.00	3.00	3.00	3.01		
2	.070	3.00	3.00	3.00	3.01		
3	.140	3.00	3.00	3.00	3.01		
4	.210	3.00	3.00	3.00	3.01		
5	.280	3.00	3.00	3.00	3.01		
6	.350	3.00	3.00	3.00	3.01		
7	.420	3.00	3.00	3.01	3.01		
8	.490	3.00	3.00	3.01	3.01		
9	.560	3.00	3.00	3.02	3.01		
10	.630	3.00	3.00	3.02	3.01		
11	.700	3.00	3.00	3.03	3.02		
12	.770	3.00	3.00	3.03	3.03		
13	.840	3.00	3.00	3.04	3.03		
14	.910	3.00	3.00	3.04	3.04		
15	.980	3.00	3.00	3.05	3.04		
16	1.050	3.00	3.00	3.05	3.05		
17	1.120	3.00	3.00	3.05	3.04		
18	1.190	3.00	3.00	3.06	3.05		
19	1.260	3.00	3.00	3.06	3.05		
20	1.330	3.00	3.00	3.07	3.06		
21	1.400	3.00	3.00	3.07	3.06		
22	1.470	3.00	3.00	3.08	3.07		
23	1.540	3.00	3.00	3.08	3.07		
24	1.610	3.00	3.00	3.08	3.08		
25	1.680	3.00	3.00	3.09	3.08		
26	1.750	3.00	3.00	3.09	3.09		
27	1.820	3.00	3.00	3.10	3.09		
28	1.890	3.00	3.00	3.10	3.09		
29	1.960	3.00	3.00	3.11	3.10		
30	2.030	3.00	3.00	3.11	3.10		
31	2.100	3.00	3.00	3.12	3.11		
32	2.170	3.00	3.00	3.12	3.11		
33	2.240	3.00	3.00	3.12	3.12		
34	2.310	3.00	3.00	3.13	3.12		
35	2.380	3.00	3.00	3.13	3.12		
36	2.450	3.00	3.00	3.14	3.13		
37	2.520	3.00	3.00	3.14	3.13		
38	2.590	3.00	3.00	3.15	3.14		
39	2.660	3.00	3.00	3.15	3.14		
40	2.730	3.00	3.00	3.15	3.15		
41	2.800	3.00	3.00	3.16	3.15		
42	2.870	3.00	3.00	3.16	3.15		
43	2.940	3.00	3.00	3.17	3.16		
44	3.010	3.00	3.00	3.17	3.16		
45	3.080	3.00	3.00	3.18	3.17		
46	3.150	3.00	3.00	3.18	3.17		
47	3.220	3.00	3.00	3.18	3.18		
48	3.290	3.00	3.00	3.19	3.18		
49	3.360	3.00	3.00	3.19	3.18		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs E3)	Station 2 Discharge QC(K,2) (cfs E3)	Station 3 Discharge QC(K,3) (cfs E3)	Station 4 Discharge QC(K,4) (cfs E3)	Station 5 Discharge QC(K,5) (cfs E3)	Station 6 Discharge QC(K,6) (cfs E3)
50	3.430	3.00	3.00	3.20	3.19		
51	3.500	3.00	3.00	3.20	3.19		
52	3.570	3.00	3.00	3.21	3.20		
53	3.640	3.00	3.00	3.21	3.20		
54	3.710	3.00	3.00	3.21	3.21		
55	3.780	3.00	3.00	3.22	3.21		
56	3.850	3.00	3.00	3.22	3.21		
57	3.920	3.00	3.00	3.23	3.22		
58	3.990	3.00	3.00	3.23	3.22		
59	4.060	3.00	3.00	3.24	3.23		
60	4.130	3.00	3.00	3.24	3.23		
61	4.200	3.00	3.00	3.24	3.24		
62	4.270	3.00	3.00	3.25	3.24		
63	4.340	3.00	3.00	3.25	3.24		
64	4.410	3.00	3.00	3.26	3.25		
65	4.480	3.00	3.00	3.26	3.25		
66	4.550	3.00	3.00	3.26	3.26		
67	4.620	3.00	3.00	3.27	3.26		
68	4.690	3.00	3.00	3.27	3.27		
69	4.760	3.00	3.00	3.28	3.27		
70	4.830	3.00	3.00	3.28	3.27		
71	4.900	3.00	3.00	3.29	3.28		
72	4.970	3.00	3.00	3.29	3.28		
73	5.040	3.00	3.00	3.29	3.29		
74	5.110	3.00	3.00	3.30	3.29		
75	5.180	3.00	3.00	3.30	3.30		
76	5.250	3.00	3.00	3.31	3.30		
77	5.320	3.00	3.00	3.31	3.30		
78	5.390	3.00	3.00	3.32	3.31		
79	5.460	3.00	3.00	3.32	3.31		
80	5.530	3.00	3.00	3.32	3.32		
81	5.600	3.00	3.00	3.33	3.32		
82	5.670	3.00	3.00	3.33	3.32		
83	5.740	3.00	3.00	3.34	3.33		
84	5.810	3.00	3.00	3.34	3.33		
85	5.880	3.00	3.00	3.34	3.34		
86	5.950	3.00	3.00	3.35	3.34		
87	6.020	3.00	3.00	3.35	3.35		
88	6.090	3.00	3.00	3.36	3.35		
89	6.160	3.00	3.00	3.36	3.35		
90	6.230	3.00	3.00	3.37	3.36		
91	6.300	3.00	3.00	3.37	3.36		
92	6.370	3.00	3.00	3.37	3.37		
93	6.440	3.00	3.00	3.38	3.37		
94	6.510	3.00	3.00	3.38	3.37		
95	6.580	3.00	3.00	3.39	3.38		
96	6.650	3.00	3.00	3.39	3.38		
97	6.720	3.00	3.00	3.40	3.39		
98	6.790	3.00	3.00	3.40	3.39		
99	6.860	3.00	3.00	3.40	3.40		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs E3)	Station 2 Discharge QC(K,2) (cfs E3)	Station 3 Discharge QC(K,3) (cfs E3)	Station 4 Discharge QC(K,4) (cfs E3)	Station 5 Discharge QC(K,5) (cfs E3)	Station 6 Discharge QC(K,6) (cfs E3)
100	6.930	3.00	3.00	3.41	3.40		
101	7.000	3.00	3.00	3.41	3.40		
102	7.070	3.00	3.00	3.42	3.41		
103	7.140	3.00	3.00	3.42	3.41		
104	7.210	3.00	3.00	3.42	3.42		
105	7.280	3.00	3.00	3.43	3.42		
106	7.350	3.00	3.00	3.43	3.43		
107	7.420	3.00	3.00	3.44	3.43		
108	7.490	3.00	3.00	3.44	3.43		
109	7.560	3.00	3.00	3.45	3.44		
110	7.630	3.00	3.00	3.45	3.44		
111	7.700	3.00	3.00	3.45	3.45		
112	7.770	3.00	3.00	3.46	3.45		
113	7.840	3.00	3.00	3.46	3.45		
114	7.910	3.00	3.00	3.47	3.46		
115	7.980	3.00	3.00	3.47	3.46		
116	8.050	3.00	3.00	3.47	3.47		
117	8.120	3.00	3.00	3.48	3.47		
118	8.190	3.00	3.00	3.48	3.48		
119	8.260	3.00	3.00	3.49	3.48		
120	8.330	3.00	3.00	3.49	3.48		
121	8.400	3.00	3.00	3.50	3.49		
122	8.470	3.00	3.00	3.50	3.49		
123	8.540	3.00	3.00	3.50	3.50		
124	8.610	3.00	3.00	3.51	3.50		
125	8.680	3.00	3.00	3.51	3.51		
126	8.750	3.00	3.00	3.52	3.51		
127	8.820	3.00	3.00	3.52	3.51		
128	8.890	3.00	3.00	3.53	3.52		
129	8.960	3.00	3.00	3.53	3.52		
130	9.030	3.00	3.00	3.53	3.53		
131	9.100	3.00	3.00	3.54	3.53		
132	9.170	3.00	3.00	3.54	3.53		
133	9.240	3.00	3.00	3.55	3.54		
134	9.310	3.00	3.00	3.55	3.54		
135	9.380	3.00	3.00	3.55	3.55		
136	9.450	3.00	3.00	3.56	3.55		
137	9.520	3.00	3.00	3.56	3.55		
138	9.590	3.00	3.00	3.57	3.56		
139	9.660	3.00	3.00	3.57	3.56		
140	9.730	3.00	3.00	3.57	3.57		
141	9.800	3.00	3.00	3.58	3.57		
142	9.870	3.00	3.00	3.58	3.58		
143	9.940	3.00	3.00	3.59	3.58		
144	10.010	3.00	3.00	3.59	3.58		
145	10.080	3.00	3.00	3.60	3.59		
146	10.150	3.00	3.00	3.60	3.59		
147	10.220	3.00	3.00	3.60	3.60		
148	10.290	3.00	3.00	3.61	3.60		
149	10.360	3.00	3.00	3.61	3.60		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs E3)	Station 2 Discharge QC(K,2) (cfs E3)	Station 3 Discharge QC(K,3) (cfs E3)	Station 4 Discharge QC(K,4) (cfs E3)	Station 5 Discharge QC(K,5) (cfs E3)	Station 6 Discharge QC(K,6) (cfs E3)
150	10.430	3.00	3.00	3.62	3.61		
151	10.500	3.00	3.00	3.62	3.61		
152	10.570	3.00	3.00	3.62	3.62		
153	10.640	3.00	3.00	3.63	3.62		
154	10.710	3.00	3.00	3.63	3.62		
155	10.780	3.00	3.00	3.64	3.63		
156	10.850	3.00	3.00	3.64	3.63		
157	10.920	3.00	3.00	3.64	3.64		
158	10.990	3.00	3.00	3.65	3.64		
159	11.060	3.00	3.00	3.65	3.64		
160	11.130	3.00	3.00	3.66	3.65		
161	11.200	3.00	3.00	3.66	3.65		
162	11.270	3.00	3.00	3.66	3.66		
163	11.340	3.00	3.00	3.67	3.66		
164	11.410	3.00	3.00	3.67	3.67		
165	11.480	3.00	3.00	3.68	3.67		
166	11.550	3.00	3.00	3.68	3.67		
167	11.620	3.00	3.00	3.69	3.68		
168	11.690	3.00	3.00	3.69	3.68		
169	11.760	3.00	3.00	3.69	3.69		
170	11.830	3.00	3.00	3.70	3.69		
171	11.900	3.00	3.00	3.70	3.69		
172	11.970	3.00	3.00	3.71	3.70		
173	12.040	3.00	3.00	3.71	3.70		
174	12.110	3.00	3.00	3.71	3.71		
175	12.180	3.00	3.00	3.72	3.71		
176	12.250	3.00	3.00	3.72	3.71		
177	12.320	3.00	3.00	3.73	3.72		
178	12.390	3.00	3.00	3.73	3.72		
179	12.460	3.00	3.00	3.73	3.73		
180	12.530	3.00	3.00	3.74	3.73		
181	12.600	3.00	3.00	3.74	3.73		
182	12.670	3.00	3.00	3.75	3.74		
183	12.740	3.00	3.00	3.75	3.74		
184	12.810	3.00	3.00	3.75	3.75		
185	12.880	3.00	3.00	3.76	3.75		
186	12.950	3.00	3.00	3.76	3.75		
187	13.020	3.00	3.00	3.77	3.76		
188	13.090	3.00	3.00	3.77	3.76		
189	13.160	3.00	3.00	3.77	3.77		
190	13.230	3.00	3.00	3.78	3.77		
191	13.300	3.00	3.00	3.78	3.77		
192	13.370	3.00	3.00	3.79	3.78		
193	13.440	3.00	3.00	3.79	3.78		
194	13.510	3.00	3.00	3.79	3.79		
195	13.580	3.00	3.00	3.80	3.79		
196	13.650	3.00	3.00	3.80	3.79		
197	13.720	3.00	3.00	3.81	3.80		
198	13.790	3.00	3.00	3.81	3.80		
199	13.860	3.00	3.00	3.81	3.81		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs E3)	Station 2 Discharge QC(K,2) (cfs E3)	Station 3 Discharge QC(K,3) (cfs E3)	Station 4 Discharge QC(K,4) (cfs E3)	Station 5 Discharge QC(K,5) (cfs E3)	Station 6 Discharge QC(K,6) (cfs E3)
200	13.930	3.00	3.00	3.82	3.81		
201	14.000	3.00	3.00	3.82	3.81		
202	14.070	3.00	3.00	3.83	3.82		
203	14.140	3.00	3.00	3.83	3.82		
204	14.210	3.00	3.00	3.83	3.83		
205	14.280	3.00	3.00	3.84	3.83		
206	14.350	3.00	3.00	3.84	3.83		
207	14.420	3.00	3.00	3.85	3.84		
208	14.490	3.00	3.00	3.85	3.84		
209	14.560	3.00	3.00	3.85	3.85		
210	14.630	3.00	3.00	3.86	3.85		
211	14.700	3.00	3.00	3.86	3.85		
212	14.770	3.00	3.00	3.87	3.86		
213	14.840	3.00	3.00	3.87	3.86		
214	14.910	3.00	3.00	3.87	3.87		
215	14.980	3.00	3.00	3.88	3.87		
216	15.050	3.00	3.00	3.88	3.87		
217	15.120	3.00	3.00	3.89	3.88		
218	15.190	3.00	3.00	3.89	3.88		
219	15.260	3.00	3.00	3.89	3.89		
220	15.330	3.00	3.00	3.90	3.89		
221	15.400	3.00	3.00	3.90	3.89		
222	15.470	3.00	3.00	3.91	3.90		
223	15.540	3.00	3.00	3.91	3.90		
224	15.610	3.00	3.00	3.91	3.91		
225	15.680	3.00	3.00	3.92	3.91		
226	15.750	3.00	3.00	3.92	3.91		
227	15.820	3.00	3.00	3.92	3.92		
228	15.890	3.00	3.00	3.93	3.92		
229	15.960	3.00	3.00	3.93	3.93		
230	16.030	3.00	3.00	3.94	3.93		
231	16.100	3.00	3.00	3.94	3.93		
232	16.170	3.00	3.00	3.94	3.94		
233	16.240	3.00	3.00	3.95	3.94		
234	16.310	3.00	3.00	3.95	3.95		
235	16.380	3.00	3.00	3.96	3.95		
236	16.450	3.00	3.00	3.96	3.95		
237	16.520	3.00	3.00	3.96	3.96		
238	16.590	3.00	3.00	3.97	3.96		
239	16.660	3.00	3.00	3.97	3.96		
240	16.730	3.00	3.00	3.98	3.97		
241	16.800	3.00	3.00	3.98	3.97		
242	16.870	3.00	3.00	3.98	3.98		
243	16.940	3.00	3.00	3.99	3.98		
244	17.010	3.00	3.00	3.99	3.98		
245	17.080	3.00	3.00	4.00	3.99		
246	17.150	3.00	3.00	4.00	3.99		
247	17.220	3.00	3.00	4.00	4.00		
248	17.290	3.00	3.00	4.01	4.00		
249	17.360	3.00	3.00	4.01	4.00		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs E3)	Station 2 Discharge QC(K,2) (cfs E3)	Station 3 Discharge QC(K,3) (cfs E3)	Station 4 Discharge QC(K,4) (cfs E3)	Station 5 Discharge QC(K,5) (cfs E3)	Station 6 Discharge QC(K,6) (cfs E3)
250	17.430	3.00	3.00	4.01	4.01		
251	17.500	3.00	3.00	4.02	4.01		
252	17.570	3.00	3.00	4.02	4.02		
253	17.640	3.00	3.00	4.03	4.02		
254	17.710	3.00	3.00	4.03	4.02		
255	17.780	3.00	3.00	4.03	4.03		
256	17.850	3.00	3.00	4.04	4.03		
257	17.920	3.00	3.00	4.04	4.03		
258	17.990	3.00	3.00	4.05	4.04		
259	18.060	3.00	3.00	4.05	4.04		
260	18.130	3.00	3.00	4.05	4.05		
261	18.200	3.00	3.00	4.06	4.05		
262	18.270	3.00	3.00	4.06	4.05		
263	18.340	3.00	3.00	4.07	4.06		
264	18.410	3.00	3.00	4.07	4.06		
265	18.480	3.00	3.00	4.07	4.07		
266	18.550	3.00	3.00	4.08	4.07		
267	18.620	3.00	3.00	4.08	4.07		
268	18.690	3.00	3.00	4.08	4.08		
269	18.760	3.00	3.00	4.09	4.08		
270	18.830	3.00	3.00	4.09	4.09		
271	18.900	3.00	3.00	4.10	4.09		
272	18.970	3.00	3.00	4.10	4.09		
273	19.040	3.00	3.00	4.10	4.10		
274	19.110	3.00	3.00	4.11	4.10		
275	19.180	3.00	3.00	4.11	4.10		
276	19.250	3.00	3.00	4.12	4.11		
277	19.320	3.00	3.00	4.12	4.11		
278	19.390	3.00	3.00	4.12	4.12		
279	19.460	3.00	3.00	4.13	4.12		
280	19.530	3.00	3.00	4.13	4.12		
281	19.600	3.00	3.00	4.13	4.13		
282	19.670	3.00	3.00	4.14	4.13		
283	19.740	3.00	3.00	4.14	4.14		
284	19.810	3.00	3.00	4.15	4.14		
285	19.880	3.00	3.00	4.15	4.14		
286	19.950	3.00	3.00	4.15	4.15		
287	20.020	3.00	3.00	4.16	4.15		
288	20.090	3.00	3.00	4.16	4.15		
289	20.160	3.00	3.00	4.16	4.16		
290	20.230	3.00	3.00	4.17	4.16		
291	20.300	3.00	3.00	4.17	4.17		
292	20.370	3.00	3.00	4.18	4.17		
293	20.440	3.00	3.00	4.18	4.17		
294	20.510	3.00	3.00	4.18	4.18		
295	20.580	3.00	3.00	4.19	4.18		
296	20.650	3.00	3.00	4.19	4.18		
297	20.720	3.00	3.00	4.20	4.19		
298	20.790	3.00	3.00	4.20	4.19		
299	20.860	3.00	3.00	4.20	4.20		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs E3)	Station 2 Discharge QC(K,2) (cfs E3)	Station 3 Discharge QC(K,3) (cfs E3)	Station 4 Discharge QC(K,4) (cfs E3)	Station 5 Discharge QC(K,5) (cfs E3)	Station 6 Discharge QC(K,6) (cfs E3)
300	20.930	3.00	3.00	4.21	4.20		
301	21.000	3.00	3.00	4.21	4.20		
302	21.070	3.00	3.00	4.21	4.21		
303	21.140	3.00	3.00	4.22	4.21		
304	21.210	3.00	3.00	4.22	4.22		
305	21.280	3.00	3.00	4.23	4.22		
306	21.350	3.00	3.00	4.23	4.22		
307	21.420	3.00	3.00	4.23	4.23		
308	21.490	3.00	3.00	4.24	4.23		
309	21.560	3.00	3.00	4.24	4.23		
310	21.630	3.00	3.00	4.24	4.24		
311	21.700	3.00	3.00	4.25	4.24		
312	21.770	3.00	3.00	4.25	4.25		
313	21.840	3.00	3.00	4.26	4.25		
314	21.910	3.00	3.00	4.26	4.25		
315	21.980	3.00	3.00	4.26	4.26		
316	22.050	3.00	3.00	4.27	4.26		
317	22.120	3.00	3.00	4.27	4.26		
318	22.190	3.00	3.00	4.27	4.27		
319	22.260	3.00	3.00	4.28	4.27		
320	22.330	3.00	3.00	4.28	4.28		
321	22.400	3.00	3.00	4.29	4.28		
322	22.470	3.00	3.00	4.29	4.28		
323	22.540	3.00	3.00	4.29	4.29		
324	22.610	3.00	3.00	4.30	4.29		
325	22.680	3.00	3.00	4.30	4.29		
326	22.750	3.00	3.00	4.30	4.30		
327	22.820	3.00	3.00	4.31	4.30		
328	22.890	3.00	3.00	4.31	4.31		
329	22.960	3.00	3.00	4.32	4.31		
330	23.030	3.00	3.00	4.32	4.31		
331	23.100	3.00	3.00	4.32	4.32		
332	23.170	3.00	3.00	4.33	4.32		
333	23.240	3.00	3.00	4.33	4.32		
334	23.310	3.00	3.00	4.33	4.33		
335	23.380	3.00	3.00	4.34	4.33		
336	23.450	3.00	3.00	4.34	4.34		
337	23.520	3.00	3.00	4.35	4.34		
338	23.590	3.00	3.00	4.35	4.34		
339	23.660	3.00	3.00	4.35	4.35		
340	23.730	3.00	3.00	4.36	4.35		
341	23.800	3.00	3.00	4.36	4.35		
342	23.870	3.00	3.00	4.36	4.36		
343	23.940	3.00	3.00	4.37	4.36		
344	24.010	3.00	3.00	4.37	4.36		
345	24.080	3.00	3.00	4.38	4.37		
346	24.150	3.00	3.00	4.38	4.37		
347	24.220	3.00	3.00	4.38	4.38		
348	24.290	3.00	3.00	4.39	4.38		
349	24.360	3.00	3.00	4.39	4.38		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs E3)	Station 2 Discharge QC(K,2) (cfs E3)	Station 3 Discharge QC(K,3) (cfs E3)	Station 4 Discharge QC(K,4) (cfs E3)	Station 5 Discharge QC(K,5) (cfs E3)	Station 6 Discharge QC(K,6) (cfs E3)
350	24.430	3.00	3.00	4.39	4.39		
351	24.500	3.00	3.00	4.40	4.39		
352	24.570	3.00	3.00	4.40	4.39		
353	24.640	3.00	3.00	4.41	4.40		
354	24.710	3.00	3.00	4.41	4.40		
355	24.780	3.00	3.00	4.41	4.41		
356	24.850	3.00	3.00	4.42	4.41		
357	24.920	3.00	3.00	4.42	4.41		
358	24.990	3.00	3.00	4.42	4.42		
359	25.060	3.00	3.00	4.43	4.42		
360	25.130	3.00	3.00	4.43	4.42		
361	25.200	3.00	3.00	4.43	4.43		
362	25.270	3.00	3.00	4.44	4.43		
363	25.340	3.00	3.00	4.44	4.44		
364	25.410	3.00	3.00	4.45	4.44		
365	25.480	3.00	3.00	4.45	4.44		
366	25.550	3.00	3.00	4.45	4.45		
367	25.620	3.00	3.00	4.46	4.45		
368	25.690	3.00	3.00	4.46	4.45		
369	25.760	3.00	3.00	4.46	4.46		
370	25.830	3.00	3.00	4.47	4.46		
371	25.900	3.00	3.00	4.47	4.46		
372	25.970	3.00	3.00	4.47	4.47		
373	26.040	3.00	3.00	4.48	4.47		
374	26.110	3.00	3.00	4.48	4.48		
375	26.180	3.00	3.00	4.49	4.48		
376	26.250	3.00	3.00	4.49	4.48		
377	26.320	3.00	3.00	4.49	4.49		
378	26.390	3.00	3.00	4.50	4.49		
379	26.460	3.00	3.00	4.50	4.49		
380	26.530	3.00	3.00	4.50	4.50		
381	26.600	3.00	3.00	4.51	4.50		
382	26.670	3.00	3.00	4.51	4.50		
383	26.740	3.00	3.00	4.52	4.51		
384	26.810	3.00	3.00	4.52	4.51		
385	26.880	3.00	3.00	4.52	4.52		
386	26.950	3.00	3.00	4.53	4.52		
387	27.020	3.00	3.00	4.53	4.52		
388	27.090	3.00	3.00	4.53	4.53		
389	27.160	3.00	3.00	4.54	4.53		
390	27.230	3.00	3.00	4.54	4.53		
391	27.300	3.00	3.00	4.54	4.54		
392	27.370	3.00	3.00	4.55	4.54		
393	27.440	3.00	3.00	4.55	4.54		
394	27.510	3.00	3.00	4.55	4.55		
395	27.580	3.00	3.00	4.56	4.55		
396	27.650	3.00	3.00	4.56	4.56		
397	27.720	3.00	3.00	4.57	4.56		
398	27.790	3.00	3.00	4.57	4.56		
399	27.860	3.00	3.00	4.57	4.57		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs E3)	Station 2 Discharge QC(K,2) (cfs E3)	Station 3 Discharge QC(K,3) (cfs E3)	Station 4 Discharge QC(K,4) (cfs E3)	Station 5 Discharge QC(K,5) (cfs E3)	Station 6 Discharge QC(K,6) (cfs E3)
400	27.930	3.00	3.00	4.58	4.57		
401	28.000	3.00	3.00	4.58	4.57		
402	28.070	3.00	3.00	4.58	4.58		
403	28.140	3.00	3.00	4.59	4.58		
404	28.210	3.00	3.00	4.59	4.58		
405	28.280	3.00	3.00	4.59	4.59		
406	28.350	3.00	3.00	4.60	4.59		
407	28.420	3.00	3.00	4.60	4.60		
408	28.490	3.00	3.00	4.61	4.60		
409	28.560	3.00	3.00	4.61	4.60		
410	28.630	3.00	3.00	4.61	4.61		
411	28.700	3.00	3.00	4.62	4.61		
412	28.770	3.00	3.00	4.62	4.61		
413	28.840	3.00	3.00	4.62	4.62		
414	28.910	3.00	3.00	4.63	4.62		
415	28.980	3.00	3.00	4.63	4.62		
416	29.050	3.00	3.00	4.63	4.63		
417	29.120	3.00	3.00	4.64	4.63		
418	29.190	3.00	3.00	4.64	4.63		
419	29.260	3.00	3.00	4.64	4.64		
420	29.330	3.00	3.00	4.65	4.64		
421	29.400	3.00	3.00	4.65	4.65		
422	29.470	3.00	3.00	4.66	4.65		
423	29.540	3.00	3.00	4.66	4.65		
424	29.610	3.00	3.00	4.66	4.66		
425	29.680	3.00	3.00	4.67	4.66		
426	29.750	3.00	3.00	4.67	4.66		
427	29.820	3.00	3.00	4.67	4.67		
428	29.890	3.00	3.00	4.68	4.67		
429	29.960	3.00	3.00	4.68	4.67		
430	30.030	3.00	3.00	4.68	4.68		
431	30.100	3.00	3.00	4.69	4.68		
432	30.170	3.00	3.00	4.69	4.68		
433	30.240	3.00	3.00	4.69	4.69		
434	30.310	3.00	3.00	4.70	4.69		
435	30.380	3.00	3.00	4.70	4.70		
436	30.450	3.00	3.00	4.71	4.70		
437	30.520	3.00	3.00	4.71	4.70		
438	30.590	3.00	3.00	4.71	4.71		
439	30.660	3.00	3.00	4.72	4.71		
440	30.730	3.00	3.00	4.72	4.71		
441	30.800	3.00	3.00	4.72	4.72		
442	30.870	3.00	3.00	4.73	4.72		
443	30.940	3.00	3.00	4.73	4.72		
444	31.010	3.00	3.00	4.73	4.73		
445	31.080	3.00	3.00	4.74	4.73		
446	31.150	3.00	3.00	4.74	4.73		
447	31.220	3.00	3.00	4.74	4.74		
448	31.290	3.00	3.00	4.75	4.74		
449	31.360	3.00	3.00	4.75	4.75		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs E3)	Station 2 Discharge QC(K,2) (cfs E3)	Station 3 Discharge QC(K,3) (cfs E3)	Station 4 Discharge QC(K,4) (cfs E3)	Station 5 Discharge QC(K,5) (cfs E3)	Station 6 Discharge QC(K,6) (cfs E3)
450	31.430	3.00	3.00	4.75	4.75		
451	31.500	3.00	3.00	4.76	4.75		
452	31.570	3.00	3.00	4.76	4.76		
453	31.640	3.00	3.00	4.77	4.76		
454	31.710	3.00	3.00	4.77	4.76		
455	31.780	3.00	3.00	4.77	4.77		
456	31.850	3.00	3.00	4.78	4.77		
457	31.920	3.00	3.00	4.78	4.77		
458	31.990	3.00	3.00	4.78	4.78		
459	32.060	3.00	3.00	4.79	4.78		
460	32.130	3.00	3.00	4.79	4.78		
461	32.200	3.00	3.00	4.79	4.79		
462	32.270	3.00	3.00	4.80	4.79		
463	32.340	3.00	3.00	4.80	4.79		
464	32.410	3.00	3.00	4.80	4.80		
465	32.480	3.00	3.00	4.81	4.80		
466	32.550	3.00	3.00	4.81	4.80		
467	32.620	3.00	3.00	4.81	4.81		
468	32.690	3.00	3.00	4.82	4.81		
469	32.760	3.00	3.00	4.82	4.82		
470	32.830	3.00	3.00	4.83	4.82		
471	32.900	3.00	3.00	4.83	4.82		
472	32.970	3.00	3.00	4.83	4.83		
473	33.040	3.00	3.00	4.84	4.83		
474	33.110	3.00	3.00	4.84	4.83		
475	33.180	3.00	3.00	4.84	4.84		
476	33.250	3.00	3.00	4.85	4.84		
477	33.320	3.00	3.00	4.85	4.84		
478	33.390	3.00	3.00	4.85	4.85		
479	33.460	3.00	3.00	4.86	4.85		
480	33.530	3.00	3.00	4.86	4.85		
481	33.600	3.00	3.00	4.86	4.86		
482	33.670	3.00	3.00	4.87	4.86		
483	33.740	3.00	3.00	4.87	4.86		
484	33.810	3.00	3.00	4.87	4.87		
485	33.880	3.00	3.00	4.88	4.87		
486	33.950	3.00	3.00	4.88	4.87		
487	34.020	3.00	3.00	4.88	4.88		
488	34.090	3.00	3.00	4.89	4.88		
489	34.160	3.00	3.00	4.89	4.89		
490	34.230	3.00	3.00	4.89	4.89		
491	34.300	3.00	3.00	4.90	4.89		
492	34.370	3.00	3.00	4.90	4.90		
493	34.440	3.00	3.00	4.91	4.90		
494	34.510	3.00	3.00	4.91	4.90		
495	34.580	3.00	3.00	4.91	4.91		
496	34.650	3.00	3.00	4.92	4.91		
497	34.720	3.00	3.00	4.92	4.91		
498	34.790	3.00	3.00	4.92	4.92		
499	34.860	3.00	3.00	4.93	4.92		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs E3)	Station 2 Discharge QC(K,2) (cfs E3)	Station 3 Discharge QC(K,3) (cfs E3)	Station 4 Discharge QC(K,4) (cfs E3)	Station 5 Discharge QC(K,5) (cfs E3)	Station 6 Discharge QC(K,6) (cfs E3)
500	34.930	3.00	3.00	4.93	4.92		
501	35.000	3.00	3.00	4.93	4.93		
502	35.070	3.00	3.00	4.94	4.93		
503	35.140	3.00	3.00	4.94	4.93		
504	35.210	3.00	3.00	4.94	4.94		
505	35.280	3.00	3.00	4.95	4.94		
506	35.350	3.00	3.00	4.95	4.94		
507	35.420	3.00	3.00	4.95	4.95		
508	35.490	3.00	3.00	4.96	4.95		
509	35.560	3.00	3.00	4.96	4.95		
510	35.630	3.00	3.00	4.96	4.96		
511	35.700	3.00	3.00	4.97	4.96		
512	35.770	3.00	3.00	4.97	4.96		
513	35.840	3.00	3.00	4.97	4.97		
514	35.910	3.00	3.00	4.98	4.97		
515	35.980	3.00	3.00	4.98	4.97		
516	36.050	3.00	3.00	4.98	4.98		
517	36.120	3.00	3.00	4.99	4.98		
518	36.190	3.00	3.00	4.99	4.99		
519	36.260	3.00	3.00	4.99	4.99		
520	36.330	3.00	3.00	5.00	4.99		
521	36.400	3.00	3.00	5.00	5.00		
522	36.470	3.00	3.00	5.00	5.00		
523	36.540	3.00	3.00	5.01	5.00		
524	36.610	3.00	3.00	5.01	5.01		
525	36.680	3.00	3.00	5.01	5.01		
526	36.750	3.00	3.00	5.02	5.01		
527	36.820	3.00	3.00	5.02	5.02		
528	36.890	3.00	3.00	5.03	5.02		
529	36.960	3.00	3.00	5.03	5.02		
530	37.030	3.00	3.00	5.03	5.03		
531	37.100	3.00	3.00	5.04	5.03		
532	37.170	3.00	3.00	5.04	5.03		
533	37.240	3.00	3.00	5.04	5.04		
534	37.310	3.00	3.00	5.05	5.04		
535	37.380	3.00	3.00	5.05	5.04		
536	37.450	3.00	3.00	5.05	5.05		
537	37.520	3.00	3.00	5.06	5.05		
538	37.590	3.00	3.00	5.06	5.05		
539	37.660	3.00	3.00	5.06	5.06		
540	37.730	3.00	3.00	5.07	5.06		
541	37.800	3.00	3.00	5.07	5.06		
542	37.870	3.00	3.00	5.07	5.07		
543	37.940	3.00	3.00	5.08	5.07		
544	38.010	3.00	3.00	5.08	5.07		
545	38.080	3.00	3.00	5.08	5.08		
546	38.150	3.00	3.00	5.09	5.08		
547	38.220	3.00	3.00	5.09	5.08		
548	38.290	3.00	3.00	5.09	5.09		
549	38.360	3.00	3.00	5.10	5.09		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs E3)	Station 2 Discharge QC(K,2) (cfs E3)	Station 3 Discharge QC(K,3) (cfs E3)	Station 4 Discharge QC(K,4) (cfs E3)	Station 5 Discharge QC(K,5) (cfs E3)	Station 6 Discharge QC(K,6) (cfs E3)
550	38.430	3.00	3.00	5.10	5.09		
551	38.500	3.00	3.00	5.10	5.10		
552	38.570	3.00	3.00	5.11	5.10		
553	38.640	3.00	3.00	5.11	5.10		
554	38.710	3.00	3.00	5.11	5.11		
555	38.780	3.00	3.00	5.12	5.11		
556	38.850	3.00	3.00	5.12	5.11		
557	38.920	3.00	3.00	5.12	5.12		
558	38.990	3.00	3.00	5.13	5.12		
559	39.060	3.00	3.00	5.13	5.12		
560	39.130	3.00	3.00	5.13	5.13		
561	39.200	3.00	3.00	5.14	5.13		
562	39.270	3.00	3.00	5.14	5.13		
563	39.340	3.00	3.00	5.14	5.14		
564	39.410	3.00	3.00	5.15	5.14		
565	39.480	3.00	3.00	5.15	5.14		
566	39.550	3.00	3.00	5.15	5.15		
567	39.620	3.00	3.00	5.16	5.15		
568	39.690	3.00	3.00	5.16	5.15		
569	39.760	3.00	3.00	5.16	5.16		
570	39.830	3.00	3.00	5.17	5.16		
571	39.900	3.00	3.00	5.17	5.16		
572	39.970	3.10	3.00	5.17	5.17		
573	40.040	3.21	3.01	5.18	5.17		
574	40.110	3.31	3.01	5.18	5.17		
575	40.180	3.42	3.05	5.18	5.18		
576	40.250	3.52	3.11	5.19	5.18		
577	40.320	3.63	3.20	5.19	5.18		
578	40.390	3.73	3.31	5.19	5.19		
579	40.460	3.84	3.42	5.20	5.19		
580	40.530	3.94	3.53	5.21	5.19		
581	40.600	4.04	3.64	5.23	5.20		
582	40.670	4.15	3.75	5.26	5.22		
583	40.740	4.25	3.85	5.30	5.24		
584	40.810	4.36	3.96	5.36	5.27		
585	40.880	4.46	4.07	5.44	5.32		
586	40.950	4.57	4.17	5.52	5.39		
587	41.020	4.67	4.28	5.62	5.46		
588	41.090	4.77	4.39	5.72	5.55		
589	41.160	4.88	4.50	5.83	5.65		
590	41.230	4.98	4.60	5.94	5.75		
591	41.300	5.09	4.71	6.05	5.86		
592	41.370	5.19	4.82	6.16	5.97		
593	41.440	5.30	4.92	6.27	6.08		
594	41.510	5.40	5.03	6.38	6.19		
595	41.580	5.51	5.14	6.49	6.30		
596	41.650	5.61	5.24	6.60	6.41		
597	41.720	5.71	5.35	6.71	6.52		
598	41.790	5.82	5.45	6.82	6.63		
599	41.860	5.92	5.56	6.93	6.74		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs E3)	Station 2 Discharge QC(K,2) (cfs E3)	Station 3 Discharge QC(K,3) (cfs E3)	Station 4 Discharge QC(K,4) (cfs E3)	Station 5 Discharge QC(K,5) (cfs E3)	Station 6 Discharge QC(K,6) (cfs E3)
600	41.930	6.03	5.67	7.04	6.85		
601	42.000	6.13	5.77	7.15	6.96		
602	42.070	14.58	5.94	7.26	7.07		
603	42.140	23.05	6.69	7.37	7.18		
604	42.210	31.52	10.02	7.48	7.29		
605	42.280	39.98	18.69	7.62	7.40		
606	42.350	48.45	30.15	7.88	7.53		
607	42.420	56.92	40.27	8.65	7.77		
608	42.490	65.38	49.17	10.99	8.40		
609	42.560	78.60	58.55	16.71	10.11		
610	42.630	92.61	69.28	26.76	13.84		
611	42.665	99.62	75.51	33.19	15.19		
612	42.700	106.63	82.44	40.43	19.09		
613	42.770	120.65	97.25	56.41	31.28		
614	42.840	134.67	112.40	72.96	47.22		
615	42.910	148.69	127.19	84.64	66.89		
616	42.980	162.70	141.99	83.91	80.29		
617	43.050	176.72	156.78	119.19	88.49		
618	43.120	190.74	171.40	141.81	104.66		
619	43.190	204.76	186.01	163.06	129.06		
620	43.260	218.78	200.55	182.52	153.73		
621	43.330	232.79	215.02	201.95	176.19		
622	43.400	246.81	229.57	220.53	197.30		
623	43.470	260.83	244.06	239.25	215.41		
624	43.540	274.85	258.39	257.52	238.40		
625	43.610	288.87	272.76	275.77	260.39		
626	43.680	302.88	287.22	293.75	278.79		
627	43.750	303.47	298.86	311.35	297.18		
628	43.820	298.62	302.61	326.89	314.43		
629	43.890	293.77	299.25	337.63	328.92		
630	43.960	288.93	294.19	341.68	338.08		
631	44.030	284.08	289.44	340.01	340.90		
632	44.100	279.24	284.62	335.29	338.68		
633	44.170	274.39	279.79	329.66	333.86		
634	44.240	269.55	275.03	323.87	328.26		
635	44.310	264.70	270.25	318.04	322.48		
636	44.380	259.85	265.45	312.20	316.69		
637	44.450	255.01	260.65	306.39	310.89		
638	44.520	250.16	255.85	300.56	305.11		
639	44.590	245.32	251.04	294.75	299.33		
640	44.660	240.47	246.22	288.94	293.56		
641	44.730	235.62	241.42	283.12	287.78		
642	44.800	230.78	236.60	277.29	282.00		
643	44.870	225.93	231.79	271.46	276.21		
644	44.940	221.09	227.01	265.63	270.42		
645	45.010	216.30	222.23	259.82	264.64		
646	45.080	211.89	217.52	254.06	258.88		
647	45.150	207.47	213.05	248.46	253.21		
648	45.220	203.05	208.68	243.10	247.69		
649	45.290	198.64	204.30	237.99	242.40		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs'E3)	Station 2 Discharge QC(K,2) (cfs'E3)	Station 3 Discharge QC(K,3) (cfs'E3)	Station 4 Discharge QC(K,4) (cfs'E3)	Station 5 Discharge QC(K,5) (cfs'E3)	Station 6 Discharge QC(K,6) (cfs'E3)
650	45.360	194.22	199.94	233.01	237.43		
651	45.430	189.81	195.57	228.11	232.98		
652	45.500	185.39	191.18	223.25	228.62		
653	45.570	180.98	186.81	218.39	224.11		
654	45.640	176.56	182.45	213.53	219.54		
655	45.710	172.15	178.07	208.67	215.06		
656	45.780	167.73	173.72	203.81	210.81		
657	45.850	163.32	169.37	198.96	206.08		
658	45.920	158.90	165.01	194.11	199.96		
659	45.990	154.49	160.69	189.26	194.75		
660	46.060	150.07	156.32	184.43	189.98		
661	46.130	145.66	151.95	179.60	185.24		
662	46.200	141.24	147.61	174.78	180.51		
663	46.270	136.82	143.23	169.95	175.79		
664	46.340	132.41	138.89	165.14	171.09		
665	46.410	127.99	134.56	160.33	166.32		
666	46.480	123.58	130.20	155.55	161.64		
667	46.550	119.16	125.90	150.76	156.99		
668	46.620	114.75	121.55	146.00	152.26		
669	46.690	110.33	117.23	141.23	147.64		
670	46.760	105.92	112.89	136.48	143.01		
671	46.830	101.50	108.53	131.73	138.28		
672	46.900	97.09	104.19	126.98	133.64		
673	46.970	92.67	99.88	122.22	129.04		
674	47.040	89.83	95.69	117.49	124.46		
675	47.110	88.17	92.12	112.83	119.86		
676	47.180	86.52	89.51	108.36	115.29		
677	47.250	84.86	87.68	104.25	110.83		
678	47.320	83.20	86.04	100.67	106.67		
679	47.390	81.55	84.41	97.69	103.02		
680	47.460	79.89	82.77	95.29	99.92		
681	47.530	78.24	81.12	93.16	97.05		
682	47.600	76.58	79.48	91.32	94.61		
683	47.670	74.92	77.83	89.47	92.67		
684	47.740	73.27	76.19	87.82	90.76		
685	47.810	71.61	74.54	85.99	88.89		
686	47.880	69.96	72.90	84.59	87.11		
687	47.950	68.30	71.26	82.95	85.36		
688	48.020	66.65	69.60	81.47	83.64		
689	48.090	64.99	67.96	82.50	82.42		
690	48.160	63.33	66.32	82.68	82.30		
691	48.230	61.68	64.68	82.21	82.52		
692	48.300	60.02	63.04	78.75	81.62		
693	48.370	58.37	61.40	72.39	78.54		
694	48.440	56.71	59.76	69.67	73.97		
695	48.510	55.06	58.12	67.52	70.27		
696	48.580	53.40	56.48	65.58	67.92		
697	48.650	51.74	54.83	63.81	65.97		
698	48.720	50.09	53.20	62.00	64.13		
699	48.790	48.43	51.56	60.25	62.36		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs E3)	Station 2 Discharge QC(K,2) (cfs E3)	Station 3 Discharge QC(K,3) (cfs E3)	Station 4 Discharge QC(K,4) (cfs E3)	Station 5 Discharge QC(K,5) (cfs E3)	Station 6 Discharge QC(K,6) (cfs E3)
700	48.860	46.78	49.93	58.47	60.61		
701	48.930	45.56	48.31	56.72	58.86		
702	49.000	44.94	46.84	54.97	57.12		
703	49.070	44.32	45.70	53.21	55.41		
704	49.140	43.69	44.89	51.57	53.85		
705	49.210	43.07	44.28	50.10	52.26		
706	49.280	42.45	43.66	48.86	50.76		
707	49.350	41.83	43.04	47.84	49.46		
708	49.420	41.20	42.42	47.03	48.35		
709	49.490	40.58	41.81	46.34	47.45		
710	49.560	39.96	41.19	45.71	46.69		
711	49.630	39.34	40.57	45.11	46.03		
712	49.700	38.71	39.95	44.52	45.41		
713	49.770	38.09	39.33	43.92	44.81		
714	49.840	37.47	38.71	43.32	44.22		
715	49.910	36.85	38.10	42.71	43.62		
716	49.980	36.22	37.47	42.10	43.02		
717	50.050	35.60	36.86	41.49	42.42		
718	50.120	34.98	36.24	40.88	41.82		
719	50.190	34.36	35.62	40.27	41.21		
720	50.260	33.73	35.00	39.66	40.61		
721	50.330	33.11	34.39	39.05	40.00		
722	50.400	32.49	33.77	38.44	39.40		
723	50.470	31.87	33.15	37.83	38.80		
724	50.540	31.24	32.53	37.22	38.20		
725	50.610	30.62	31.91	36.62	37.59		
726	50.680	30.00	31.30	36.01	37.00		
727	50.750	29.38	30.68	35.41	36.39		
728	50.820	28.75	30.07	34.80	35.80		
729	50.890	28.13	29.45	34.19	35.20		
730	50.960	27.51	28.84	33.59	34.60		
731	51.030	26.89	28.22	32.98	34.01		
732	51.100	26.26	27.60	32.38	33.41		
733	51.170	25.64	26.99	31.77	32.82		
734	51.240	25.02	26.37	31.17	32.22		
735	51.310	24.42	25.76	30.57	31.63		
736	51.380	23.97	25.15	29.96	31.04		
737	51.450	23.52	24.59	29.35	30.45		
738	51.520	23.07	24.08	28.76	29.84		
739	51.590	22.63	23.62	28.16	29.25		
740	51.660	22.18	23.18	27.58	28.65		
741	51.730	21.73	22.74	27.02	28.06		
742	51.800	21.28	22.29	26.50	27.48		
743	51.870	20.83	21.85	26.01	26.94		
744	51.940	20.38	21.41	25.54	26.42		
745	52.010	19.94	20.97	25.09	25.93		
746	52.080	19.49	20.52	24.65	25.46		
747	52.150	19.04	20.08	24.22	25.00		
748	52.220	18.59	19.63	23.78	24.56		
749	52.290	18.14	19.19	23.34	24.12		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs E3)	Station 2 Discharge QC(K,2) (cfs E3)	Station 3 Discharge QC(K,3) (cfs E3)	Station 4 Discharge QC(K,4) (cfs E3)	Station 5 Discharge QC(K,5) (cfs E3)	Station 6 Discharge QC(K,6) (cfs E3)
750	52.360	17.69	18.75	22.91	23.68		
751	52.430	17.24	18.31	22.47	23.24		
752	52.500	16.80	17.87	22.04	22.81		
753	52.570	16.35	17.43	21.61	22.37		
754	52.640	15.90	16.99	21.17	21.94		
755	52.710	15.45	16.55	20.74	21.51		
756	52.780	15.00	16.11	20.31	21.07		
757	52.850	14.55	15.67	19.87	20.64		
758	52.920	14.10	15.24	19.45	20.25		
759	52.990	13.66	14.80	19.02	19.76		
760	53.060	13.21	14.37	18.59	19.37		
761	53.130	12.76	13.93	18.17	18.92		
762	53.200	12.31	13.50	17.74	18.52		
763	53.270	11.86	13.06	17.32	18.09		
764	53.340	11.41	12.63	16.89	17.68		
765	53.410	11.01	12.20	16.47	17.26		
766	53.480	10.85	11.77	16.05	16.85		
767	53.550	10.69	11.38	15.63	16.44		
768	53.620	10.54	11.06	15.20	16.03		
769	53.690	10.38	10.83	14.79	15.63		
770	53.760	10.22	10.67	14.38	15.22		
771	53.830	10.07	10.52	13.99	14.83		
772	53.900	9.91	10.36	13.63	14.45		
773	53.970	9.76	10.21	13.31	14.09		
774	54.040	9.60	10.05	13.05	13.77		
775	54.110	9.44	9.90	12.83	13.50		
776	54.180	9.29	9.75	12.65	13.28		
777	54.250	9.13	9.59	12.48	13.13		
778	54.320	8.97	9.44	12.33	13.17		
779	54.390	8.82	9.28	12.17	13.47		
780	54.460	8.66	9.13	12.02	12.65		
781	54.530	8.51	8.98	11.87	12.35		
782	54.600	8.35	8.82	11.72	12.09		
783	54.670	8.19	8.67	11.57	11.91		
784	54.740	8.04	8.52	11.41	11.74		
785	54.810	7.88	8.36	11.26	11.57		
786	54.880	7.72	8.21	11.11	11.42		
787	54.950	7.57	8.05	10.96	11.26		
788	55.020	7.41	7.90	10.81	11.11		
789	55.090	7.26	7.75	10.66	10.95		
790	55.160	7.10	7.59	10.51	10.80		
791	55.230	7.00	7.44	10.36	10.65		
792	55.300	6.99	7.29	10.21	10.50		
793	55.370	6.98	7.16	10.06	10.34		
794	55.440	6.97	7.06	9.91	10.18		
795	55.510	6.96	7.00	9.76	10.03		
796	55.580	6.95	6.98	9.61	9.88		
797	55.650	6.94	6.97	9.47	9.73		
798	55.720	6.93	6.96	9.34	9.59		
799	55.790	6.91	6.95	9.23	9.45		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs E3)	Station 2 Discharge QC(K,2) (cfs E3)	Station 3 Discharge QC(K,3) (cfs E3)	Station 4 Discharge QC(K,4) (cfs E3)	Station 5 Discharge QC(K,5) (cfs E3)	Station 6 Discharge QC(K,6) (cfs E3)
800	55.860	6.90	6.94	9.15	9.33		
801	55.930	6.89	6.93	9.09	9.23		
802	56.000	6.88	6.92	9.05	9.15		
803	56.070	6.87	6.91	9.02	9.09		
804	56.140	6.86	6.89	9.00	9.05		
805	56.210	6.85	6.88	8.99	9.02		
806	56.280	6.84	6.87	8.98	9.00		
807	56.350	6.82	6.86	8.97	8.99		
808	56.420	6.81	6.85	8.96	8.98		
809	56.490	6.80	6.84	8.94	8.97		
810	56.560	6.79	6.83	8.93	8.95		
811	56.630	6.78	6.82	8.92	8.94		
812	56.700	6.77	6.80	8.91	8.93		
813	56.770	6.76	6.79	8.90	8.92		
814	56.840	6.75	6.78	8.89	8.91		
815	56.910	6.73	6.77	8.88	8.90		
816	56.980	6.72	6.76	8.87	8.89		
817	57.050	6.71	6.75	8.86	8.88		
818	57.120	6.70	6.74	8.84	8.86		
819	57.190	6.69	6.73	8.83	8.85		
820	57.260	6.68	6.71	8.82	8.84		
821	57.330	6.67	6.70	8.81	8.83		
822	57.400	6.66	6.69	8.80	8.82		
823	57.470	6.64	6.68	8.79	8.81		
824	57.540	6.63	6.67	8.78	8.80		
825	57.610	6.62	6.66	8.77	8.78		
826	57.680	6.61	6.65	8.75	8.77		
827	57.750	6.60	6.64	8.74	8.76		
828	57.820	6.59	6.62	8.73	8.75		
829	57.890	6.58	6.61	8.72	8.74		
830	57.960	6.57	6.60	8.71	8.73		
831	58.030	6.55	6.59	8.70	8.72		
832	58.100	6.54	6.58	8.69	8.71		
833	58.170	6.53	6.57	8.68	8.70		
834	58.240	6.52	6.56	8.66	8.68		
835	58.310	6.51	6.55	8.65	8.67		
836	58.380	6.50	6.53	8.64	8.66		
837	58.450	6.49	6.52	8.63	8.65		
838	58.520	6.48	6.51	8.62	8.64		
839	58.590	6.46	6.50	8.61	8.63		
840	58.660	6.45	6.49	8.60	8.62		
841	58.730	6.44	6.48	8.59	8.61		
842	58.800	6.43	6.47	8.57	8.59		
843	58.870	6.42	6.46	8.56	8.58		
844	58.940	6.41	6.44	8.55	8.57		
845	59.010	6.40	6.43	8.54	8.56		
846	59.080	6.39	6.42	8.53	8.55		
847	59.150	6.37	6.41	8.52	8.54		
848	59.220	6.36	6.40	8.51	8.53		
849	59.290	6.35	6.39	8.50	8.52		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs E3)	Station 2 Discharge QC(K,2) (cfs E3)	Station 3 Discharge QC(K,3) (cfs E3)	Station 4 Discharge QC(K,4) (cfs E3)	Station 5 Discharge QC(K,5) (cfs E3)	Station 6 Discharge QC(K,6) (cfs E3)
850	59.360	6.34	6.38	8.48	8.50		
851	59.430	6.33	6.37	8.47	8.49		
852	59.500	6.32	6.36	8.46	8.48		
853	59.570	6.31	6.34	8.45	8.47		
854	59.640	6.30	6.33	8.44	8.46		
855	59.710	6.28	6.32	8.43	8.45		
856	59.780	6.27	6.31	8.42	8.44		
857	59.850	6.26	6.30	8.41	8.43		
858	59.920	6.25	6.29	8.40	8.41		
859	59.990	6.24	6.28	8.38	8.40		
860	60.060	6.23	6.27	8.37	8.39		
861	60.130	6.22	6.25	8.36	8.38		
862	60.200	6.21	6.24	8.35	8.37		
863	60.270	6.19	6.23	8.34	8.36		
864	60.340	6.18	6.22	8.33	8.35		
865	60.410	6.17	6.21	8.32	8.34		
866	60.480	6.16	6.20	8.31	8.32		
867	60.550	6.15	6.19	8.29	8.31		
868	60.620	6.14	6.18	8.28	8.30		
869	60.690	6.13	6.16	8.27	8.29		
870	60.760	6.11	6.15	8.26	8.28		
871	60.830	6.10	6.14	8.25	8.27		
872	60.900	6.09	6.13	8.24	8.26		
873	60.970	6.08	6.12	8.23	8.25		
874	61.040	6.07	6.11	8.22	8.24		
875	61.110	6.06	6.10	8.20	8.22		
876	61.180	6.05	6.09	8.19	8.21		
877	61.250	6.04	6.07	8.18	8.20		
878	61.320	6.02	6.06	8.17	8.19		
879	61.390	6.01	6.05	8.16	8.18		
880	61.460	6.00	6.04	8.15	8.17		
881	61.530	5.99	6.03	8.14	8.16		
882	61.600	5.98	6.02	8.13	8.15		
883	61.670	5.97	6.01	8.11	8.13		
884	61.740	5.96	6.00	8.10	8.12		
885	61.810	5.95	5.98	8.09	8.11		
886	61.880	5.93	5.97	8.08	8.10		
887	61.950	5.92	5.96	8.07	8.09		
888	62.020	5.91	5.95	8.06	8.08		
889	62.090	5.90	5.94	8.05	8.07		
890	62.160	5.89	5.93	8.04	8.06		
891	62.230	5.88	5.92	8.03	8.05		
892	62.300	5.87	5.91	8.01	8.03		
893	62.370	5.86	5.89	8.00	8.02		
894	62.440	5.84	5.88	7.99	8.01		
895	62.510	5.83	5.87	7.98	8.00		
896	62.580	5.82	5.86	7.97	7.99		
897	62.650	5.81	5.85	7.96	7.98		
898	62.720	5.80	5.84	7.95	7.97		
899	62.790	5.79	5.83	7.94	7.96		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs E3)	Station 2 Discharge QC(K,2) (cfs E3)	Station 3 Discharge QC(K,3) (cfs E3)	Station 4 Discharge QC(K,4) (cfs E3)	Station 5 Discharge QC(K,5) (cfs E3)	Station 6 Discharge QC(K,6) (cfs E3)
900	62.860	5.78	5.82	7.92	7.94		
901	62.930	5.77	5.80	7.91	7.93		
902	63.000	5.75	5.79	7.90	7.92		
903	63.070	5.74	5.78	7.89	7.91		
904	63.140	5.73	5.77	7.88	7.90		
905	63.210	5.72	5.76	7.87	7.89		
906	63.280	5.71	5.75	7.86	7.88		
907	63.350	5.70	5.74	7.85	7.87		
908	63.420	5.69	5.73	7.83	7.85		
909	63.490	5.68	5.71	7.82	7.84		
910	63.560	5.66	5.70	7.81	7.83		
911	63.630	5.65	5.69	7.80	7.82		
912	63.700	5.64	5.68	7.79	7.81		
913	63.770	5.63	5.67	7.78	7.80		
914	63.840	5.62	5.66	7.77	7.79		
915	63.910	5.61	5.65	7.76	7.78		
916	63.980	5.60	5.64	7.74	7.76		
917	64.050	5.59	5.62	7.73	7.75		
918	64.120	5.57	5.61	7.72	7.74		
919	64.190	5.56	5.60	7.71	7.73		
920	64.260	5.55	5.59	7.70	7.72		
921	64.330	5.54	5.58	7.69	7.71		
922	64.400	5.53	5.57	7.68	7.70		
923	64.470	5.52	5.56	7.67	7.69		
924	64.540	5.51	5.55	7.66	7.67		
925	64.610	5.50	5.53	7.64	7.66		
926	64.680	5.48	5.52	7.63	7.65		
927	64.750	5.47	5.51	7.62	7.64		
928	64.820	5.46	5.50	7.61	7.63		
929	64.890	5.45	5.49	7.60	7.62		
930	64.960	5.44	5.48	7.59	7.61		
931	65.030	5.43	5.47	7.58	7.60		
932	65.100	5.42	5.46	7.57	7.59		
933	65.170	5.41	5.45	7.55	7.57		
934	65.240	5.39	5.43	7.54	7.56		
935	65.310	5.38	5.42	7.53	7.55		
936	65.380	5.37	5.41	7.52	7.54		
937	65.450	5.36	5.40	7.51	7.53		
938	65.520	5.35	5.39	7.50	7.52		
939	65.590	5.34	5.38	7.49	7.51		
940	65.660	5.33	5.37	7.48	7.50		
941	65.730	5.32	5.36	7.46	7.48		
942	65.800	5.30	5.34	7.45	7.47		
943	65.870	5.29	5.33	7.44	7.46		
944	65.940	5.28	5.32	7.43	7.45		
945	66.010	5.27	5.31	7.42	7.44		
946	66.080	5.26	5.30	7.41	7.43		
947	66.150	5.25	5.29	7.40	7.42		
948	66.220	5.24	5.28	7.39	7.41		
949	66.290	5.23	5.27	7.37	7.39		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs E3)	Station 2 Discharge QC(K,2) (cfs E3)	Station 3 Discharge QC(K,3) (cfs E3)	Station 4 Discharge QC(K,4) (cfs E3)	Station 5 Discharge QC(K,5) (cfs E3)	Station 6 Discharge QC(K,6) (cfs E3)
950	66.360	5.21	5.25	7.36	7.38		
951	66.430	5.20	5.24	7.35	7.37		
952	66.500	5.19	5.23	7.34	7.36		
953	66.570	5.18	5.22	7.33	7.35		
954	66.640	5.17	5.21	7.32	7.34		
955	66.710	5.16	5.20	7.31	7.33		
956	66.780	5.15	5.19	7.30	7.32		
957	66.850	5.14	5.18	7.29	7.30		
958	66.920	5.12	5.16	7.27	7.29		
959	66.990	5.11	5.15	7.26	7.28		
960	67.060	5.10	5.14	7.25	7.27		
961	67.130	5.09	5.13	7.24	7.26		
962	67.200	5.08	5.12	7.23	7.25		
963	67.270	5.07	5.11	7.22	7.24		
964	67.340	5.06	5.10	7.21	7.23		
965	67.410	5.05	5.09	7.20	7.22		
966	67.480	5.03	5.07	7.18	7.20		
967	67.550	5.02	5.06	7.17	7.19		
968	67.620	5.01	5.05	7.16	7.18		
969	67.690	5.00	5.04	7.15	7.17		
970	67.760	4.99	5.03	7.14	7.16		
971	67.830	4.98	5.02	7.13	7.15		
972	67.900	4.97	5.01	7.12	7.14		
973	67.970	4.96	5.00	7.11	7.13		
974	68.040	4.94	4.98	7.09	7.11		
975	68.110	4.93	4.97	7.08	7.10		
976	68.180	4.92	4.96	7.07	7.09		
977	68.250	4.91	4.95	7.06	7.08		
978	68.320	4.90	4.94	7.05	7.07		
979	68.390	4.89	4.93	7.04	7.06		
980	68.460	4.88	4.92	7.03	7.05		
981	68.530	4.87	4.91	7.02	7.04		
982	68.600	4.85	4.89	7.01	7.02		
983	68.670	4.84	4.88	6.99	7.01		
984	68.740	4.83	4.87	6.98	7.00		
985	68.810	4.82	4.86	6.97	6.99		
986	68.880	4.81	4.85	6.96	6.98		
987	68.950	4.80	4.84	6.95	6.97		
988	69.020	4.79	4.83	6.94	6.96		
989	69.090	4.78	4.82	6.93	6.95		
990	69.160	4.76	4.80	6.92	6.93		
991	69.230	4.75	4.79	6.90	6.92		
992	69.300	4.74	4.78	6.89	6.91		
993	69.370	4.73	4.77	6.88	6.90		
994	69.440	4.72	4.76	6.87	6.89		
995	69.510	4.71	4.75	6.86	6.88		
996	69.580	4.70	4.74	6.85	6.87		
997	69.650	4.69	4.73	6.84	6.86		
998	69.720	4.67	4.71	6.83	6.85		
999	69.790	4.66	4.70	6.81	6.83		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs E3)	Station 2 Discharge QC(K,2) (cfs E3)	Station 3 Discharge QC(K,3) (cfs E3)	Station 4 Discharge QC(K,4) (cfs E3)	Station 5 Discharge QC(K,5) (cfs E3)	Station 6 Discharge QC(K,6) (cfs E3)
1000	69.860	4.65	4.69	6.80	6.82		
1001	69.930	4.64	4.68	6.79	6.81		
1002	70.000	4.63	4.67	6.78	6.80		
1003	70.070	4.62	4.66	6.77	6.79		
1004	70.140	4.61	4.65	6.76	6.78		
1005	70.210	4.60	4.64	6.75	6.77		
1006	70.280	4.58	4.63	6.74	6.76		
1007	70.350	4.57	4.61	6.73	6.74		
1008	70.420	4.56	4.60	6.71	6.73		
1009	70.490	4.55	4.59	6.70	6.72		
1010	70.560	4.54	4.58	6.69	6.71		
1011	70.630	4.53	4.57	6.68	6.70		
1012	70.700	4.52	4.56	6.67	6.69		
1013	70.770	4.51	4.55	6.66	6.68		
1014	70.840	4.49	4.54	6.65	6.67		
1015	70.910	4.48	4.52	6.64	6.65		
1016	70.980	4.47	4.51	6.62	6.64		
1017	71.050	4.46	4.50	6.61	6.63		
1018	71.120	4.45	4.49	6.60	6.62		
1019	71.190	4.44	4.48	6.59	6.61		
1020	71.260	4.43	4.47	6.58	6.60		
1021	71.330	4.42	4.46	6.57	6.59		
1022	71.400	4.40	4.45	6.56	6.58		
1023	71.470	4.39	4.43	6.55	6.57		
1024	71.540	4.38	4.42	6.54	6.55		
1025	71.610	4.37	4.41	6.52	6.54		
1026	71.680	4.36	4.40	6.51	6.53		
1027	71.750	4.35	4.39	6.50	6.52		
1028	71.820	4.34	4.38	6.49	6.51		
1029	71.890	4.33	4.37	6.48	6.50		
1030	71.960	4.31	4.36	6.47	6.49		
1031	72.030	4.30	4.34	6.46	6.48		
1032	72.100	4.29	4.33	6.45	6.46		
1033	72.170	4.28	4.32	6.43	6.45		
1034	72.240	4.27	4.31	6.42	6.44		
1035	72.310	4.26	4.30	6.41	6.43		
1036	72.380	4.25	4.29	6.40	6.42		
1037	72.450	4.24	4.28	6.39	6.41		
1038	72.520	4.22	4.27	6.38	6.40		
1039	72.590	4.21	4.25	6.37	6.39		
1040	72.660	4.20	4.24	6.36	6.38		
1041	72.730	4.19	4.23	6.34	6.36		
1042	72.800	4.18	4.22	6.33	6.35		
1043	72.870	4.17	4.21	6.32	6.34		
1044	72.940	4.16	4.20	6.31	6.33		
1045	73.010	4.15	4.19	6.30	6.32		
1046	73.080	4.13	4.18	6.29	6.31		
1047	73.150	4.12	4.16	6.28	6.30		
1048	73.220	4.11	4.15	6.27	6.29		
1049	73.290	4.10	4.14	6.26	6.27		

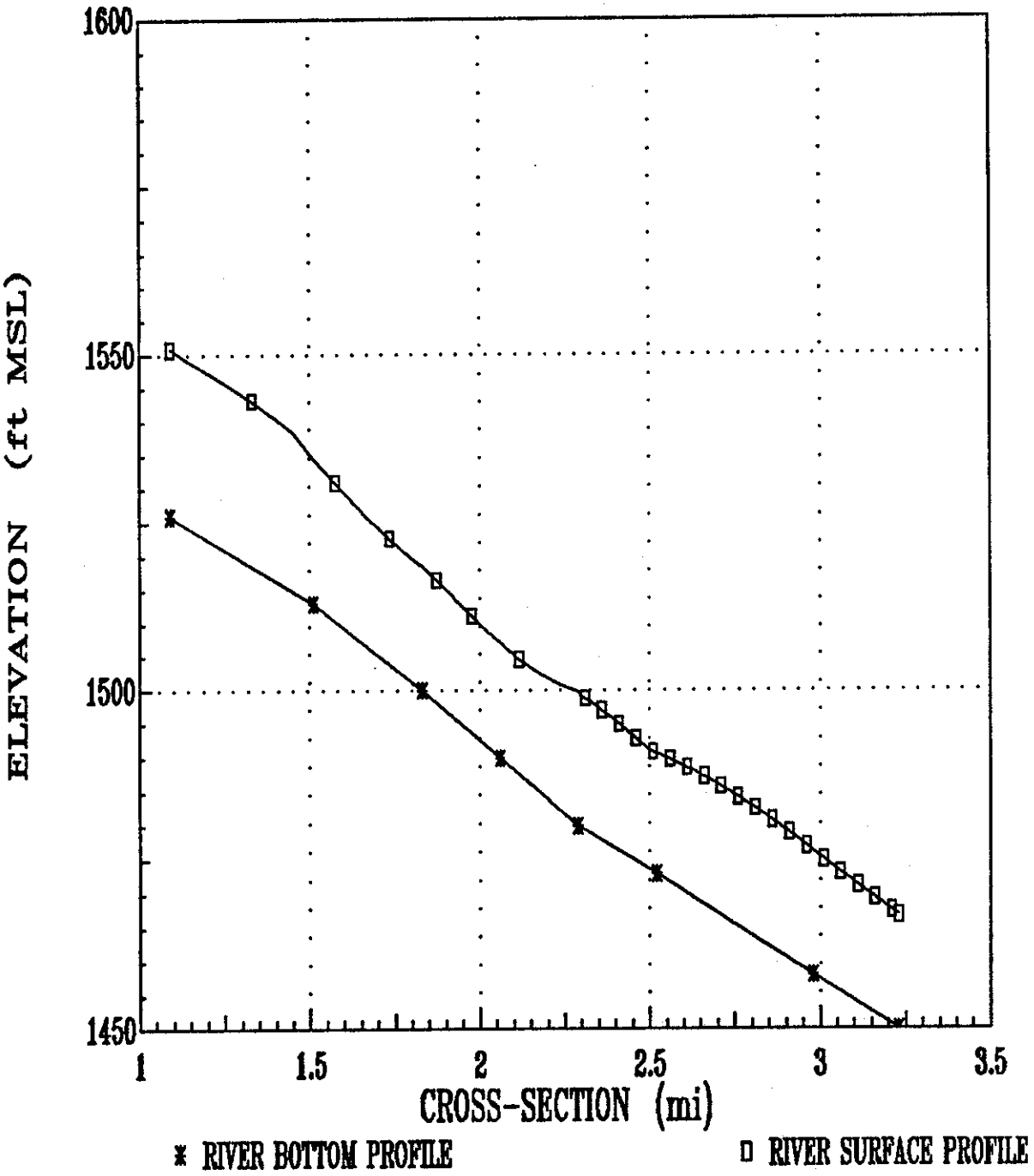
Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs'E3)	Station 2 Discharge QC(K,2) (cfs'E3)	Station 3 Discharge QC(K,3) (cfs'E3)	Station 4 Discharge QC(K,4) (cfs'E3)	Station 5 Discharge QC(K,5) (cfs'E3)	Station 6 Discharge QC(K,6) (cfs'E3)
1050	73.360	4.09	4.13	6.24	6.26		
1051	73.430	4.08	4.12	6.23	6.25		
1052	73.500	4.07	4.11	6.22	6.24		
1053	73.570	4.06	4.10	6.21	6.23		
1054	73.640	4.04	4.09	6.20	6.22		
1055	73.710	4.03	4.07	6.19	6.21		
1056	73.780	4.02	4.06	6.18	6.20		
1057	73.850	4.01	4.05	6.17	6.18		
1058	73.920	4.00	4.04	6.15	6.17		
1059	73.990	3.99	4.03	6.14	6.16		
1060	74.060	3.98	4.02	6.13	6.15		
1061	74.130	3.96	4.01	6.12	6.14		
1062	74.200	3.95	4.00	6.11	6.13		
1063	74.270	3.94	3.99	6.10	6.12		
1064	74.340	3.93	3.97	6.09	6.11		
1065	74.410	3.92	3.96	6.08	6.10		
1066	74.480	3.91	3.95	6.06	6.08		
1067	74.550	3.90	3.94	6.05	6.07		
1068	74.620	3.89	3.93	6.04	6.06		
1069	74.690	3.87	3.92	6.03	6.05		
1070	74.760	3.86	3.91	6.02	6.04		
1071	74.830	3.85	3.90	6.01	6.03		
1072	74.900	3.84	3.88	6.00	6.02		
1073	74.970	3.83	3.87	5.99	6.01		
1074	75.040	3.82	3.86	5.98	5.99		
1075	75.110	3.81	3.85	5.96	5.98		
1076	75.180	3.80	3.84	5.95	5.97		
1077	75.250	3.78	3.83	5.94	5.96		
1078	75.320	3.77	3.82	5.93	5.95		
1079	75.390	3.76	3.81	5.92	5.94		
1080	75.460	3.75	3.79	5.91	5.93		
1081	75.530	3.74	3.78	5.90	5.92		
1082	75.600	3.73	3.77	5.89	5.91		
1083	75.670	3.72	3.76	5.87	5.89		
1084	75.740	3.71	3.75	5.86	5.88		
1085	75.810	3.69	3.74	5.85	5.87		
1086	75.880	3.68	3.73	5.84	5.86		
1087	75.950	3.67	3.72	5.83	5.85		
1088	76.020	3.66	3.70	5.82	5.84		
1089	76.090	3.65	3.69	5.81	5.83		
1090	76.160	3.64	3.68	5.80	5.82		
1091	76.230	3.63	3.67	5.79	5.80		
1092	76.300	3.62	3.66	5.77	5.79		
1093	76.370	3.60	3.65	5.76	5.78		
1094	76.440	3.59	3.64	5.75	5.77		
1095	76.510	3.58	3.63	5.74	5.76		
1096	76.580	3.57	3.61	5.73	5.75		
1097	76.650	3.56	3.60	5.72	5.74		
1098	76.720	3.55	3.59	5.71	5.73		
1099	76.790	3.54	3.58	5.70	5.72		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs E3)	Station 2 Discharge QC(K,2) (cfs E3)	Station 3 Discharge QC(K,3) (cfs E3)	Station 4 Discharge QC(K,4) (cfs E3)	Station 5 Discharge QC(K,5) (cfs E3)	Station 6 Discharge QC(K,6) (cfs E3)
1100	76.860	3.53	3.57	5.68	5.70		
1101	76.930	3.51	3.56	5.67	5.69		
1102	77.000	3.50	3.55	5.66	5.68		
1103	77.070	3.49	3.54	5.65	5.67		
1104	77.140	3.48	3.52	5.64	5.66		
1105	77.210	3.47	3.51	5.63	5.65		
1106	77.280	3.46	3.50	5.62	5.64		
1107	77.350	3.45	3.49	5.61	5.63		
1108	77.420	3.44	3.48	5.60	5.61		
1109	77.490	3.42	3.47	5.58	5.60		
1110	77.560	3.41	3.46	5.57	5.59		
1111	77.630	3.40	3.45	5.56	5.58		
1112	77.700	3.39	3.44	5.55	5.57		
1113	77.770	3.38	3.42	5.54	5.56		
1114	77.840	3.37	3.41	5.53	5.55		
1115	77.910	3.36	3.40	5.52	5.54		
1116	77.980	3.35	3.39	5.51	5.53		
1117	78.050	3.33	3.38	5.49	5.51		
1118	78.120	3.32	3.37	5.48	5.50		
1119	78.190	3.31	3.36	5.47	5.49		
1120	78.260	3.30	3.35	5.46	5.48		
1121	78.330	3.29	3.33	5.45	5.47		
1122	78.400	3.28	3.32	5.44	5.46		
1123	78.470	3.27	3.31	5.43	5.45		
1124	78.540	3.26	3.30	5.42	5.44		
1125	78.610	3.24	3.29	5.41	5.43		
1126	78.680	3.23	3.28	5.40	5.42		
1127	78.750	3.22	3.27	5.40	5.41		
1128	78.820	3.21	3.26	5.39	5.40		
1129	78.890	3.20	3.24	5.38	5.39		
1130	78.960	3.19	3.23	5.37	5.39		
1131	79.030	3.18	3.22	5.37	5.38		
1132	79.100	3.17	3.21	5.36	5.37		
1133	79.170	3.15	3.20	5.35	5.36		
1134	79.240	3.14	3.19	5.34	5.36		
1135	79.310	3.13	3.18	5.33	5.35		
1136	79.380	3.12	3.17	5.33	5.34		
1137	79.450	3.11	3.15	5.32	5.33		
1138	79.520	3.10	3.14	5.31	5.32		
1139	79.590	3.09	3.13	5.30	5.32		
1140	79.660	3.08	3.12	5.30	5.31		
1141	79.730	3.06	3.11	5.29	5.30		
1142	79.800	3.05	3.10	5.28	5.29		
1143	79.870	3.04	3.09	5.27	5.29		

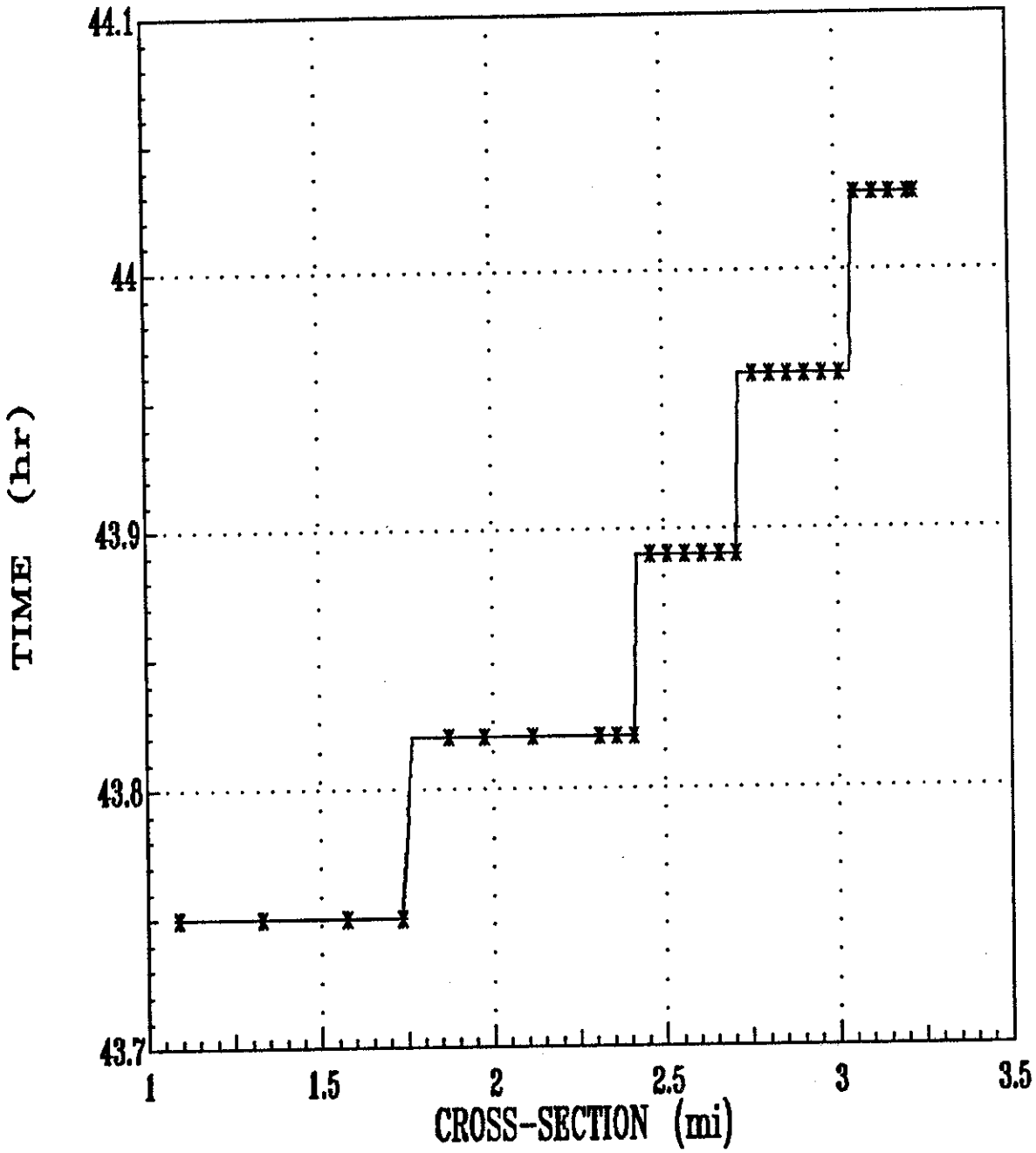
END OF OUTPUT

FLOOD CREST SUMMARY

RIVER BOTTOM & PEAK WATER SURFACE PROFILE



TIME TO PEAK PROFILE



Run #4
(From Scatter Wash Section #12W through #15W)

B O S S D A M B R K (tm)

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Version : 2.00
Serial Number : 0010361.200

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PROGRAM ORIGIN :

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PROJECT DESCRIPTION :

PROJECT TITLE : 72-HR Q=60,000 FLOW WEST
PROJECT NUMBER : 8851485F
DESCRIPTION : CAVE BUTTES DAM DAMBREAK ANALYSIS
ENGINEER : SFR
DATE OF RUN : 4/16/1990
TIME OF RUN : 6:07 am

INPUT DATA SUMMARY :

INPUT CONTROL PARAMETERS :

Number of Dynamic Routing Reaches (KKN)	1	
Type of Reservoir Routing (KUI)	1	(dynamic routing)
Number of multiple dams/bridges (MULDAM)	1	
No. of Reservoir Inflow Hydrograph Points (ITEH)	12	
No. of Informational Cross-Sections (NPRT)	0	
Flood-Plain Routing (KFLP)	0	(no)

CROSS-SECTION NUMBERS COINCIDENT
WITH UPSTREAM DAM FACE (IDAM) :

5

DAM NUMBER : 1

RESERVOIR AND BREACH PARAMETERS :

Initial Elevation of Water Surface (YO, ft MSL)		1405.00
Breach Side Slope (Z)	1:	1.00
Breach Bottom Elevation (YBMIN, ft MSL)		1399.00
Breach Base Width (BB, ft)		100.00
Time of Breach Formation (TFH, hr)		1.00

RESERVOIR DESCRIPTION :

Water Surface Elevation at Time of Breach (HF, ft MSL)	1500.00
Top of Dam Elevation (HD, ft MSL)	1412.00
Uncontrolled Spillway Crest Elevation (HSP, ft MSL)	1408.00
Spillway Gate Center Elevation (HGT, ft MSL)	.00
Uncontrolled Spillway Discharge Coefficient (CS)	.00
Spillway Gate Discharge Coefficient (CG)	.00
Dam Overtopping Discharge Coefficient (CDO)	27300.00
Turbine Discharge (QT, cfs)	500.00

SPILLWAY/GATE RATING CURVE :

Head HEAD(1) (ft)	Flow QSPILL(1) (cfs)
1.00	8964.0
2.00	12679.0
3.00	15525.0
.00	.0
.00	.0
.00	.0
.00	.0
.00	.0

Hydrograph Time Intervals (DHF, hr)	.00
Routing Period (TEH, hr)	80.00
Breach Development Exponent (BREX)	1.00
Mud/Debris Flow Parameter (MUD)	0
Dry Bed Routing Parameter (IWF)	0
Hydraulic Radius Computation Parameter (KPRES)	1

Time Elapsed TI(K) (hr)	Upstream Inflow QI(K) (cfs)
.00	2000.0
39.90	2000.0
42.00	5000.0
42.50	14000.0
44.03	60000.0
45.00	30000.0
47.00	10000.0
48.90	6000.0
51.30	2000.0
53.40	2000.0
55.20	2000.0
80.00	2000.0

SUMMARY OF PROGRAM CONTROL PARAMETERS :

Number of Cross-Sections Entered (NS)	6	
Number of Top Widths Entered (NCS)	8	
Number of Cross-Sectional Hydrographs to Plot (NTT)	4	
Cross-Sectional Smoothing Parameter (KSA)	0	
Downstream Supercritical Parameter (KSUPC)	0	(subcritical)
Landslide Simulation (KSL)	0	(no)
Number of Lateral Inflow Hydrographs (LQ)	0	
Number of Points in Gate Control Curve (KCG)	0	

CROSS-SECTIONS WHERE HYDROGRAPH REQUESTED :
(maximum allowed = 6)

2 4 5 6

CHANNEL-VALLEY BOUNDARY CONDITIONS :

Max Discharge at Downstream End (QMAXD, cfs)	.0
Max Lateral Outflow due to Flood Wave (QLL, cfs/ft)	.0000
Initial Time-Step Size (DTHM, hr)	.0700
Time at which Dam Starts to Fail (TFI, hr)	.0000
Theta Weighting Factor (F1I)	.000
Stage Convergence Criterion (EPSY, ft)	.000
Initial Downstream Water Surface Elevation (YDN, ft MSL)	.00
Slope of Channel Downstream of Dam (SOM, ft/mi)	30.0000

CROSS-SECTION NUMBER : 1 SECTION 12W

Cross-Section Location (XS(I), mi)	3.210
Flooding Elevation (FSTG(I), ft MSL)	1453.500
Initial Water Surface Elevation (YD, ft MSL)	.000

DOWNSTREAM REACH NUMBER : 1

Reach Contraction-Expansion Coefficient (FKC)	.000
Minimum Distance Between Interpolated Cross-Sections (DXM, mi)	.040

CROSS-SECTION and REACH DESCRIPTION :

Elevation HS(K,I) (ft MSL)	Channel Top Width BS(K,I) (ft)	Channel Manning n CM(K,I)	Storage Top Width BSS(K,I) (ft)	Left Top Width BSL(K,I) (ft)	Left Manning n CML(K,I)	Right Top Width BSR(K,I) (ft)	Right Manning n CMR(K,I)
1451.00	.0	.0700	.0	.0	.0000	.0	.0000
1451.50	200.0	.0700	.0	.0	.0000	.0	.0000
1452.00	5500.0	.0700	.0	.0	.0000	.0	.0000
1453.00	6300.0	.0700	.0	.0	.0000	.0	.0000
1454.00	6800.0	.0800	.0	.0	.0000	.0	.0000
1456.00	8200.0	.0800	.0	.0	.0000	.0	.0000
1458.00	9500.0	.0800	.0	.0	.0000	.0	.0000
1460.00	10900.0	.0800	.0	.0	.0000	.0	.0000

CROSS-SECTION NUMBER : 2 SECTION 13W

Cross-Section Location (XS(I), mi)	3.450
Flooding Elevation (FSTG(I), ft MSL)	1446.500
Initial Water Surface Elevation (YD, ft MSL)	.000

DOWNSTREAM REACH NUMBER : 2

Reach Contraction-Expansion Coefficient (FKC)	.000
Minimum Distance Between Interpolated Cross-Sections (DXM, mi)	.040

CROSS-SECTION and REACH DESCRIPTION :

Elevation HS(K,I) (ft MSL)	Channel Top Width BS(K,I) (ft)	Channel Manning n CM(K,I)	Storage Top Width BSS(K,I) (ft)	Left Top Width BSL(K,I) (ft)	Left Manning n CML(K,I)	Right Top Width BSR(K,I) (ft)	Right Manning n CMR(K,I)
1444.00	.0	.0700	.0	.0	.0000	.0	.0000
1444.50	200.0	.0700	.0	.0	.0000	.0	.0000
1445.00	6000.0	.0700	.0	.0	.0000	.0	.0000
1446.00	7000.0	.0700	.0	.0	.0000	.0	.0000
1447.00	8000.0	.0800	.0	.0	.0000	.0	.0000
1448.00	9000.0	.0800	.0	.0	.0000	.0	.0000
1449.00	10500.0	.0800	.0	.0	.0000	.0	.0000
1450.00	11700.0	.0800	.0	.0	.0000	.0	.0000

CROSS-SECTION NUMBER : 3 SECTION 14W

Cross-Section Location (XS(I), mi)	3.770
Flooding Elevation (FSTG(I), ft MSL)	1435.000
Initial Water Surface Elevation (YD, ft MSL)	.000

DOWNSTREAM REACH NUMBER : 3

Reach Contraction-Expansion Coefficient (FKC)	.000
Minimum Distance Between Interpolated Cross-Sections (DXM, mi)	.050

CROSS-SECTION and REACH DESCRIPTION :

Elevation HS(K,I) (ft MSL)	Channel Top Width BS(K,I) (ft)	Channel Manning n CM(K,I)	Storage Top Width BSS(K,I) (ft)	Left Top Width BSL(K,I) (ft)	Left Manning n CML(K,I)	Right Top Width BSR(K,I) (ft)	Right Manning n CMR(K,I)
1432.00	.0	.0700	.0	.0	.0000	.0	.0000
1433.00	1800.0	.0700	.0	.0	.0000	.0	.0000
1434.50	4000.0	.0700	.0	.0	.0000	.0	.0000
1435.00	7500.0	.0700	.0	.0	.0000	.0	.0000
1436.00	8400.0	.0800	.0	.0	.0000	.0	.0000
1437.00	9300.0	.0800	.0	.0	.0000	.0	.0000
1437.50	9700.0	.0800	.0	.0	.0000	.0	.0000
1438.00	10200.0	.0800	.0	.0	.0000	.0	.0000

CROSS-SECTION NUMBER : 4 SECTION 15W

Cross-Section Location (XS(I), mi)	4.300
Flooding Elevation (FSTG(I), ft MSL)	1413.000
Initial Water Surface Elevation (YD, ft MSL)	.000

DOWNSTREAM REACH NUMBER : 4

Reach Contraction-Expansion Coefficient (FKC)	.000
Minimum Distance Between Interpolated Cross-Sections (DXM, mi)	.050

CROSS-SECTION and REACH DESCRIPTION :

Elevation HS(K,I) (ft MSL)	Channel Top Width BS(K,I) (ft)	Channel Manning n CM(K,I)	Storage Top Width BSS(K,I) (ft)	Left Top Width BSL(K,I) (ft)	Left Manning n CML(K,I)	Right Top Width BSR(K,I) (ft)	Right Manning n CMR(K,I)
1408.00	.0	.0700	.0	.0	.0000	.0	.0000
1410.00	200.0	.0700	.0	.0	.0000	.0	.0000
1412.00	2100.0	.0800	.0	.0	.0000	.0	.0000
1414.00	4000.0	.0800	.0	.0	.0000	.0	.0000
1415.00	5000.0	.0800	.0	.0	.0000	.0	.0000
1416.00	6000.0	.0900	.0	.0	.0000	.0	.0000
1417.00	7000.0	.0900	.0	.0	.0000	.0	.0000
1418.00	8000.0	.0900	.0	.0	.0000	.0	.0000

CROSS-SECTION NUMBER : 5 SECTION 16W (I-17)

Cross-Section Location (XS(I), mi)	4.490
Flooding Elevation (FSTG(I), ft MSL)	1402.000
Initial Water Surface Elevation (YD, ft MSL)	.000

DOWNSTREAM REACH NUMBER : 5

Reach Contraction-Expansion Coefficient (FKC)	.000
Minimum Distance Between Interpolated Cross-Sections (DXM, mi)	.530

CROSS-SECTION and REACH DESCRIPTION :

Elevation HS(K,I) (ft MSL)	Channel Top Width BS(K,I) (ft)	Channel Manning n CM(K,I)	Storage Top Width BSS(K,I) (ft)	Left Top Width BSL(K,I) (ft)	Left Manning n CML(K,I)	Right Top Width BSR(K,I) (ft)	Right Manning n CMR(K,I)
1399.00	.0	.0700	.0	.0	.0000	.0	.0000
1400.00	200.0	.0700	.0	.0	.0000	.0	.0000
1402.00	1900.0	.0900	.0	.0	.0000	.0	.0000
1404.00	3700.0	.0900	.0	.0	.0000	.0	.0000
1405.00	4700.0	.0900	.0	.0	.0000	.0	.0000
1406.00	5500.0	.0900	.0	.0	.0000	.0	.0000
1408.00	7300.0	.0900	.0	.0	.0000	.0	.0000
1410.00	9100.0	.0900	.0	.0	.0000	.0	.0000

CROSS-SECTION NUMBER : 6 SECTION 17W

Cross-Section Location (XS(I), mi)	5.020
Flooding Elevation (FSTG(I), ft MSL)	1392.000
Initial Water Surface Elevation (YD, ft MSL)	.000

CROSS-SECTION DESCRIPTION :

Elevation HS(K,I) (ft MSL)	Channel Top Width BS(K,I) (ft)	Storage Top Width BSS(K,I) (ft)	Left Top Width BSL(K,I) (ft)	Right Top Width BSR(K,I) (ft)
1383.00	.0	.0	.0	.0
1385.00	150.0	.0	.0	.0
1388.00	400.0	.0	.0	.0
1390.00	500.0	.0	.0	.0
1391.00	3500.0	.0	.0	.0
1394.00	5100.0	.0	.0	.0
1397.00	6800.0	.0	.0	.0
1400.00	8500.0	.0	.0	.0

WARNING: At cross-section reach 2 the distance between interpolated cross-sections (DXM) should be changed to .009 due to expansion/contraction criteria

DISTANCE BETWEEN INTERPOLATED CROSS-SECTIONS
(DXM) THAT WILL BE USED IN COMPUTATIONS :

Down Stream Reach Number I=1,NS1	Interp. Cross Section Distance DXM(I) (mi)
1	.0400
2	.0400
3	.0500
4	.0500
5	101.0000

Total number of cross-sections (original+interpolated) 29

Maximum number of cross-sections allowed 300

OUTPUT DATA SUMMARY :

CROSS-SECTION and REACH SUMMARY :

Cross Section Number	Cross Section Location (mi)	Bottom Elevation (ft MSL)	Reach Number	Reach Length (mi)	Reach Slope (ft/mi)
1	3.210	1451.000			
2	3.450	1444.000	1	.240	29.167
3	3.770	1432.000	2	.320	37.500
4	4.300	1408.000	3	.530	45.283
5	4.490	1399.000	4	.190	47.369
6	5.020	1383.000	5	.530	30.189

RE-NUMBERED DAM/BRIDGE CROSS-SECTIONS :

Dam/ Bridge	Revised Cross Section Number
1	28

Number of Intermediate Cross-Sections (NN(NS)) 29

Number of Time Steps (NNU) 12

INITIAL CONDITIONS TABLE :

Cross Section Number I	Cross Section Location XI (mi)	Normal Flow Water Elevation YN (ft MSL)	Normal Flow Depth DEPN (ft)	Critical Flow Water Elevation YC (ft MSL)	Critical Flow Depth DEPC (ft)	Froude Indicator (0 = sub) (1 = sup) IFR	Iteration Count for Computing Nrml Dpth ITN
1	3.210	1452.15	1.15	1451.85	.85	0	9
2	3.250	1450.97	1.14	1450.69	.85	0	9
3	3.290	1449.82	1.15	1449.52	.85	0	9
4	3.330	1448.64	1.14	1448.34	.84	0	9
5	3.370	1447.46	1.13	1447.17	.84	0	9
6	3.410	1446.30	1.14	1446.01	.84	0	9
7	3.450	1445.10	1.10	1444.85	.85	0	9
8	3.490	1443.71	1.21	1443.41	.91	0	9
9	3.530	1442.28	1.28	1441.93	.93	0	9
10	3.570	1440.84	1.34	1440.44	.94	0	9
11	3.610	1439.37	1.37	1438.91	.91	0	9
12	3.650	1437.87	1.37	1437.36	.86	0	9
13	3.690	1436.35	1.35	1435.83	.83	0	9
14	3.730	1434.82	1.32	1434.30	.80	0	9
15	3.770	1433.24	1.24	1432.79	.79	0	9
16	3.823	1430.93	1.33	1430.46	.86	0	9
17	3.876	1428.64	1.44	1428.12	.92	0	9
18	3.929	1426.35	1.55	1425.79	.99	0	9
19	3.982	1424.08	1.68	1423.48	1.08	0	9
20	4.035	1421.84	1.84	1421.18	1.18	0	9
21	4.088	1419.63	2.03	1418.89	1.29	0	9
22	4.141	1417.44	2.24	1416.64	1.44	0	9
23	4.194	1415.32	2.52	1414.44	1.64	0	9
24	4.247	1413.24	2.84	1412.42	2.02	0	9
25	4.300	1411.19	3.19	1410.53	2.53	0	9
26	4.363	1407.95	2.95	1407.27	2.27	0	10
27	4.427	1404.67	2.67	1403.99	1.99	0	10
28	4.490	1400.86	1.86	1400.13	1.13	0	10
29	5.020	1385.85	2.85	1384.62	1.62	0	10

SUMMARY OF INITIAL DOWNSTREAM BOUNDARY CONDITIONS :

Cross-section Number at Downstream End of Model (IN)	29
Initial Water Surface Elev. at Downstream End (YNN, ft MSL)	1385.847
Initial Flow Depth at Downstream End (DEP, ft)	2.847

COMPUTED STEP BACKWATER TABLE :

Cross Section Number I	Cross Section Location X (mi)	Flow QIL (cfs)	Backwater Water Surface Elevation YIL (ft MSL)	Backwater Water Depth DEP (ft)	Iteration Count for Computing Backwater ITB
28	4.490	500.0	1405.000	6.000	0
27	4.427	2000.0	1405.000	3.000	1
26	4.363	2000.0	1407.620	2.620	5
25	4.300	2000.0	1411.397	3.397	3
24	4.247	2000.0	1413.223	2.823	5
23	4.194	2000.0	1415.409	2.609	4
22	4.141	2000.0	1417.468	2.268	5
21	4.088	2000.0	1419.669	2.069	4
20	4.035	2000.0	1421.857	1.857	5
19	3.982	2000.0	1424.110	1.710	4
18	3.929	2000.0	1426.368	1.568	4
17	3.876	2000.0	1428.652	1.453	4
16	3.823	2000.0	1430.944	1.344	4
15	3.770	2000.0	1433.248	1.248	4
14	3.730	2000.0	1434.830	1.330	5
13	3.690	2000.0	1436.339	1.339	5
12	3.650	2000.0	1437.875	1.375	5
11	3.610	2000.0	1439.369	1.369	5
10	3.570	2000.0	1440.849	1.349	4
9	3.530	2000.0	1442.295	1.295	4
8	3.490	2000.0	1443.717	1.217	4
7	3.450	2000.0	1445.109	1.109	4
6	3.410	2000.0	1446.310	1.143	4
5	3.370	2000.0	1447.460	1.126	4
4	3.330	2000.0	1448.644	1.144	4
3	3.290	2000.0	1449.804	1.137	4
2	3.250	2000.0	1450.981	1.147	4
1	3.210	2000.0	1452.146	1.146	4

Interp. Cross Section I	Water Elevation YI(I) (ft MSL)	Initial Flow QDI(I) (cfs)
1	1452.15	2000.0
2	1450.98	2000.0
3	1449.80	2000.0
4	1448.64	2000.0
5	1447.46	2000.0
6	1446.31	2000.0
7	1445.11	2000.0
8	1443.72	2000.0
9	1442.30	2000.0
10	1440.85	2000.0
11	1439.37	2000.0
12	1437.87	2000.0
13	1436.34	2000.0
14	1434.83	2000.0
15	1433.25	2000.0
16	1430.94	2000.0
17	1428.65	2000.0
18	1426.37	2000.0
19	1424.11	2000.0
20	1421.86	2000.0
21	1419.67	2000.0
22	1417.47	2000.0
23	1415.41	2000.0
24	1413.22	2000.0
25	1411.40	2000.0
26	1407.62	2000.0
27	1405.00	2000.0
28	1405.00	500.0
29	1385.85	500.0

DAM OUTFLOW HYDROGRAPH TIME PARAMETERS :

Time to Failure (TFH, hr)	1.000
Time to Start of Rising Limb of Hydrograph (TFO, hr)	.000
Time to Peak (TP, hr)	44.030
Time Step Size (DTHI, hr)	.070

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Time (TT)	.0000
Time Step (DTH)	.0700
Number of Iterations Required after Time Step Reduction (ITERR)	0
Flow at Upstream End of Model (QU(1), cfs)	2000.00
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1452.15
Flow at Downstream End of Model (QU(N), cfs)	500.00
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1385.85

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.210	1452.15	.87	2287.	5617.	5617.	2.000	.0700
3.290	1449.80	.87	2302.	5785.	5785.	2.000	.0700
3.370	1447.46	.87	2302.	5951.	5951.	2.000	.0700
3.450	1445.11	.89	2259.	6109.	6109.	2.000	.0700
3.530	1442.30	.97	2057.	4979.	4979.	2.000	.0700
3.610	1439.37	1.14	1760.	3476.	3476.	2.000	.0700
3.690	1436.34	1.31	1530.	2551.	2551.	2.000	.0700
3.770	1433.25	1.44	1392.	2164.	2164.	2.000	.0700
3.876	1428.65	1.53	1304.	1818.	1818.	2.000	.0700
3.982	1424.11	1.63	1230.	1539.	1539.	2.000	.0700
4.088	1419.67	1.68	1190.	1366.	1366.	2.000	.0700
4.194	1415.41	1.63	1226.	1354.	1354.	2.000	.0700
4.300	1411.40	1.42	1407.	1527.	1527.	2.000	.0759
4.427	1405.00	1.18	1693.	1672.	1672.	2.000	.0800
5.020	1385.85	1.63	307.	221.	221.	.500	.0756

Maximum Froude Number (FRDM)	.54
Cross-Section of Maximum Froude Number (IFR)	26
Minimum Froude Number (FRM)	.00
Cross-Section of Minimum Froude Number (IFM)	28

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Time (TT)	.0000
Time Step (DTH)	.0700
Number of Iterations Required after Time Step Reduction (ITERR)	3
Flow at Upstream End of Model (QU(1), cfs)	2000.00
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1452.15
Flow at Downstream End of Model (QU(N), cfs)	500.00
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1385.85

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.210	1452.15	.87	2287.	5617.	5617.	2.000	.0700
3.290	1449.80	.87	2302.	5785.	5785.	2.000	.0700
3.370	1447.46	.87	2302.	5951.	5951.	2.000	.0700
3.450	1445.11	.89	2259.	6109.	6109.	2.000	.0700
3.530	1442.30	.97	2059.	4981.	4981.	2.000	.0700
3.610	1439.37	1.14	1763.	3479.	3479.	2.002	.0700
3.690	1436.34	1.31	1532.	2553.	2553.	2.000	.0700
3.770	1433.25	1.43	1397.	2168.	2168.	2.000	.0700
3.876	1428.65	1.53	1307.	1820.	1820.	2.000	.0700
3.982	1424.12	1.62	1239.	1546.	1546.	2.002	.0700
4.088	1419.69	1.64	1219.	1390.	1390.	2.000	.0700
4.194	1415.48	1.52	1319.	1424.	1424.	2.000	.0700
4.300	1411.57	1.19	1685.	1692.	1692.	2.000	.0763
4.427	1405.34	.87	2305.	1969.	1969.	2.000	.0800
5.020	1385.85	1.63	307.	221.	221.	.500	.0756

Maximum Froude Number (FRDM)	.57
Cross-Section of Maximum Froude Number (IFR)	26
Minimum Froude Number (FRM)	.00
Cross-Section of Minimum Froude Number (IFM)	28

NONCONVERGENCE OCCURRED AT CROSS-SECTION
TT= .0000 DT

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Time (TT)	.0350
Time Step (DTH)	.0350
Number of Iterations Required after Time Step Reduction (ITERR)	3
Flow at Upstream End of Model (QU(1), cfs)	2000.00
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1452.15
Flow at Downstream End of Model (QU(N), cfs)	500.00
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1385.85

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.210	1452.15	.87	2287.	5617.	5617.	2.000	.0700
3.290	1449.80	.87	2302.	5785.	5785.	2.002	.0700
3.370	1447.46	.87	2302.	5951.	5951.	2.006	.0700
3.450	1445.11	.89	2261.	6109.	6109.	2.004	.0700
3.530	1442.30	.97	2059.	4982.	4982.	2.000	.0700
3.610	1439.37	1.14	1764.	3480.	3480.	2.004	.0700
3.690	1436.34	1.31	1532.	2553.	2553.	2.002	.0700
3.770	1433.25	1.43	1397.	2168.	2168.	2.004	.0700
3.876	1428.66	1.53	1311.	1823.	1823.	2.002	.0700
3.982	1424.12	1.61	1246.	1552.	1552.	2.011	.0700
4.088	1419.70	1.63	1238.	1406.	1406.	2.024	.0700
4.194	1415.52	1.51	1377.	1465.	1465.	2.073	.0700
4.300	1411.67	1.18	1865.	1790.	1790.	2.202	.0766
4.427	1405.55	1.01	2741.	2162.	2162.	2.763	.0800
5.020	1385.85	1.63	307.	221.	221.	.500	.0756

Maximum Froude Number (FRDM)	.72
Cross-Section of Maximum Froude Number (IFR)	26
Minimum Froude Number (FRM)	.00
Cross-Section of Minimum Froude Number (IFM)	28

NONCONVERGENCE OCCURRED AT CROSS-SECTION
TT= .0350 DT

NONCONVERGENCE OCCURRED AT CROSS-SECTION
TT= .0700 DT

NONCONVERGENCE OCCURRED AT CROSS-SECTION
TT= .0700 DT

NONCONVERGENCE OCCURRED AT CROSS-SECTION
TT= .0788 DT

NONCONVERGENCE OCCURRED AT CROSS-SECTION
TT= .0788 DT

NONCONVERGENCE OCCURRED AT CROSS-SECTION
TT= .0864 DT

NONCONVERGENCE OCCURRED AT CROSS-SECTION
TT= .0864 DT

NONCONVERGENCE OCCURRED AT CROSS-SECTION
TT= .0931 DT

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NONCONVERGENCE OCCURRED AT CROSS-SECTION
                    TT=      .0931      DT

NONCONVERGENCE OCCURRED AT CROSS-SECTION
                    TT=      .0990      DT

NONCONVERGENCE OCCURRED AT CROSS-SECTION
                    TT=      .0990      DT

NONCONVERGENCE OCCURRED AT CROSS-SECTION
                    TT=      .1041      DT

NONCONVERGENCE OCCURRED AT CROSS-SECTION
                    TT=      .1041      DT

NONCONVERGENCE OCCURRED AT CROSS-SECTION
                    TT=      .1086      DT

NONCONVERGENCE OCCURRED AT CROSS-SECTION
                    TT=      .1243      DT

NONCONVERGENCE OCCURRED AT CROSS-SECTION
                    TT=      .1400      DT

NONCONVERGENCE OCCURRED AT CROSS-SECTION
                    TT=      .1400      DT

NONCONVERGENCE OCCURRED AT CROSS-SECTION
                    TT=      .1488      DT

NONCONVERGENCE OCCURRED AT CROSS-SECTION
                    TT=      .1488      DT

NONCONVERGENCE OCCURRED AT CROSS-SECTION
                    TT=      .1564      DT

NONCONVERGENCE OCCURRED AT CROSS-SECTION
                    TT=      .1564      DT

NONCONVERGENCE OCCURRED AT CROSS-SECTION
                    TT=      .1631      DT

NONCONVERGENCE OCCURRED AT CROSS-SECTION
                    TT=      .1631      DT

NONCONVERGENCE OCCURRED AT CROSS-SECTION
                    TT=      .1690      DT

NONCONVERGENCE OCCURRED AT CROSS-SECTION
                    TT=      .1690      DT

NONCONVERGENCE OCCURRED AT CROSS-SECTION
                    TT=      .1741      DT

NONCONVERGENCE OCCURRED AT CROSS-SECTION
                    TT=      .1741      DT

NONCONVERGENCE OCCURRED AT CROSS-SECTION
                    TT=      .1786      DT
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NONCONVERGENCE OCCURRED AT CROSS-SECTION
                      TT=      .1786      DT

NONCONVERGENCE OCCURRED AT CROSS-SECTION
                      TT=      .1825      DT

NONCONVERGENCE OCCURRED AT CROSS-SECTION
                      TT=      .1825      DT

NONCONVERGENCE OCCURRED AT CROSS-SECTION
                      TT=      .1859      DT
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Time (TT)	.4900
Time Step (DTH)	.0700
Number of Iterations Required after Time Step Reduction (ITERR)	2
Flow at Upstream End of Model (QU(1), cfs)	2000.00
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1452.15
Flow at Downstream End of Model (QU(N), cfs)	500.00
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1385.85

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.210	1452.15	.87	2287.	5617.	5617.	2.000	.0700
3.290	1449.80	.87	2302.	5785.	5785.	2.002	.0700
3.370	1447.46	.87	2302.	5951.	5951.	2.003	.0700
3.450	1445.11	.89	2262.	6109.	6109.	2.005	.0700
3.530	1442.30	.97	2063.	4986.	4986.	2.005	.0700
3.610	1439.37	1.14	1765.	3481.	3481.	2.006	.0700
3.690	1436.34	1.31	1534.	2555.	2555.	2.006	.0700
3.770	1433.25	1.43	1401.	2170.	2170.	2.010	.0700
3.876	1428.66	1.53	1317.	1827.	1827.	2.020	.0700
3.982	1424.13	1.62	1264.	1566.	1566.	2.047	.0700
4.088	1419.74	1.64	1291.	1447.	1447.	2.121	.0700
4.194	1415.64	1.50	1567.	1593.	1593.	2.345	.0700
4.300	1411.76	1.32	2026.	1874.	1874.	2.679	.0778
4.427	1408.01	.41	10862.	4476.	4476.	4.467	.0900
5.020	1385.85	1.63	307.	221.	221.	.500	.0756

Maximum Froude Number (FRDM)	.43
Cross-Section of Maximum Froude Number (IFR)	26
Minimum Froude Number (FRM)	.00
Cross-Section of Minimum Froude Number (IFM)	28

NONCONVERGENCE OCCURRED AT CROSS-SECTION
TT= 1.4000 DT

NONCONVERGENCE OCCURRED AT CROSS-SECTION
TT= 1.4350 DT

NONCONVERGENCE OCCURRED AT CROSS-SECTION
TT= 1.4700 DT

NONCONVERGENCE OCCURRED AT CROSS-SECTION
TT= 1.5400 DT

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Time (TT)	1.9600
Time Step (DTH)	.0700
Number of Iterations Required after Time Step Reduction (ITERR)	2
Flow at Upstream End of Model (QU(1), cfs)	2000.00
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1452.15
Flow at Downstream End of Model (QU(N), cfs)	3807.08
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1390.73

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.210	1452.15	.87	2287.	5617.	5617.	2.000	.0700
3.290	1449.80	.87	2302.	5785.	5785.	2.001	.0700
3.370	1447.46	.87	2302.	5951.	5951.	2.003	.0700
3.450	1445.11	.89	2262.	6109.	6109.	2.005	.0700
3.530	1442.30	.97	2063.	4986.	4986.	2.005	.0700
3.610	1439.37	1.14	1764.	3480.	3480.	2.005	.0700
3.690	1436.34	1.31	1532.	2553.	2553.	2.005	.0700
3.770	1433.25	1.44	1397.	2168.	2168.	2.008	.0700
3.876	1428.66	1.54	1311.	1823.	1823.	2.019	.0700
3.982	1424.12	1.64	1247.	1553.	1553.	2.045	.0700
4.088	1419.71	1.70	1247.	1413.	1413.	2.120	.0700
4.194	1415.54	1.67	1408.	1486.	1486.	2.353	.0700
4.300	1411.68	1.60	1870.	1793.	1793.	2.993	.0791
4.427	1404.34	4.18	778.	1086.	1086.	3.252	.0800
5.020	1390.73	1.25	3051.	2703.	2703.	3.807	.0900

Maximum Froude Number (FRDM)	.87
Cross-Section of Maximum Froude Number (IFR)	27
Minimum Froude Number (FRM)	.05
Cross-Section of Minimum Froude Number (IFM)	28

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Time (TT)	3.7100
Time Step (DTH)	.0700
Number of Iterations Required after Time Step Reduction (ITERR)	2
Flow at Upstream End of Model (QU(1), cfs)	2000.00
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1452.15
Flow at Downstream End of Model (QU(N), cfs)	3767.32
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1390.73

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.210	1452.15	.87	2287.	5617.	5617.	2.000	.0700
3.290	1449.80	.87	2302.	5785.	5785.	2.001	.0700
3.370	1447.46	.87	2302.	5951.	5951.	2.003	.0700
3.450	1445.11	.89	2262.	6109.	6109.	2.005	.0700
3.530	1442.30	.97	2063.	4986.	4986.	2.005	.0700
3.610	1439.37	1.14	1764.	3480.	3480.	2.005	.0700
3.690	1436.34	1.31	1532.	2553.	2553.	2.005	.0700
3.770	1433.25	1.44	1397.	2168.	2168.	2.008	.0700
3.876	1428.66	1.54	1311.	1823.	1823.	2.018	.0700
3.982	1424.12	1.64	1247.	1553.	1553.	2.045	.0700
4.088	1419.71	1.70	1247.	1413.	1413.	2.124	.0700
4.194	1415.54	1.69	1408.	1486.	1486.	2.373	.0700
4.300	1411.68	1.66	1870.	1793.	1793.	3.111	.0795
4.427	1404.31	5.01	752.	1065.	1065.	3.767	.0800
5.020	1390.73	1.24	3040.	2691.	2691.	3.767	.0900

Maximum Froude Number (FRDM)	1.05
Cross-Section of Maximum Froude Number (IFR)	27
Minimum Froude Number (FRM)	.05
Cross-Section of Minimum Froude Number (IFM)	28

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Time (TT)	5.4600
Time Step (DTH)	.0700
Number of Iterations Required after Time Step Reduction (ITERR)	2
Flow at Upstream End of Model (QU(1), cfs)	2000.00
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1452.15
Flow at Downstream End of Model (QU(N), cfs)	3767.32
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1390.73

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.210	1452.15	.87	2287.	5617.	5617.	2.000	.0700
3.290	1449.80	.87	2302.	5785.	5785.	2.001	.0700
3.370	1447.46	.87	2302.	5951.	5951.	2.003	.0700
3.450	1445.11	.89	2262.	6109.	6109.	2.005	.0700
3.530	1442.30	.97	2063.	4986.	4986.	2.005	.0700
3.610	1439.37	1.14	1764.	3480.	3480.	2.005	.0700
3.690	1436.34	1.31	1532.	2553.	2553.	2.005	.0700
3.770	1433.25	1.44	1397.	2168.	2168.	2.007	.0700
3.876	1428.66	1.54	1311.	1823.	1823.	2.019	.0700
3.982	1424.12	1.64	1247.	1553.	1553.	2.045	.0700
4.088	1419.71	1.70	1247.	1413.	1413.	2.124	.0700
4.194	1415.54	1.69	1408.	1486.	1486.	2.373	.0700
4.300	1411.68	1.66	1870.	1793.	1793.	3.111	.0795
4.427	1404.31	5.01	752.	1065.	1065.	3.767	.0800
5.020	1390.73	1.24	3040.	2691.	2691.	3.767	.0900

Maximum Froude Number (FRDM)	1.05
Cross-Section of Maximum Froude Number (IFR)	27
Minimum Froude Number (FRM)	.05
Cross-Section of Minimum Froude Number (IFM)	28

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Time (TT)	7.2100
Time Step (DTH)	.0700
Number of Iterations Required after Time Step Reduction (ITERR)	2
Flow at Upstream End of Model (QU(1), cfs)	2000.00
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1452.15
Flow at Downstream End of Model (QU(N), cfs)	3767.32
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1390.73

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.210	1452.15	.87	2287.	5617.	5617.	2.000	.0700
3.290	1449.80	.87	2302.	5785.	5785.	2.001	.0700
3.370	1447.46	.87	2302.	5951.	5951.	2.003	.0700
3.450	1445.11	.89	2262.	6109.	6109.	2.005	.0700
3.530	1442.30	.97	2063.	4986.	4986.	2.005	.0700
3.610	1439.37	1.14	1764.	3480.	3480.	2.005	.0700
3.690	1436.34	1.31	1532.	2553.	2553.	2.005	.0700
3.770	1433.25	1.44	1397.	2168.	2168.	2.008	.0700
3.876	1428.66	1.54	1311.	1823.	1823.	2.018	.0700
3.982	1424.12	1.64	1247.	1553.	1553.	2.045	.0700
4.088	1419.71	1.70	1247.	1413.	1413.	2.124	.0700
4.194	1415.54	1.69	1408.	1486.	1486.	2.373	.0700
4.300	1411.68	1.66	1870.	1793.	1793.	3.111	.0795
4.427	1404.31	5.01	752.	1065.	1065.	3.767	.0800
5.020	1390.73	1.24	3040.	2691.	2691.	3.767	.0900

Maximum Froude Number (FRDM)	1.05
Cross-Section of Maximum Froude Number (IFR)	27
Minimum Froude Number (FRM)	.05
Cross-Section of Minimum Froude Number (IFM)	28

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Time (TT)	8.9600
Time Step (DTH)	.0700
Number of Iterations Required after Time Step Reduction (ITERR)	2
Flow at Upstream End of Model (QU(1), cfs)	2000.00
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1452.15
Flow at Downstream End of Model (QU(N), cfs)	3767.32
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1390.73

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.210	1452.15	.87	2287.	5617.	5617.	2.000	.0700
3.290	1449.80	.87	2302.	5785.	5785.	2.001	.0700
3.370	1447.46	.87	2302.	5951.	5951.	2.003	.0700
3.450	1445.11	.89	2262.	6109.	6109.	2.005	.0700
3.530	1442.30	.97	2063.	4986.	4986.	2.005	.0700
3.610	1439.37	1.14	1764.	3480.	3480.	2.005	.0700
3.690	1436.34	1.31	1532.	2553.	2553.	2.005	.0700
3.770	1433.25	1.44	1397.	2168.	2168.	2.007	.0700
3.876	1428.66	1.54	1311.	1823.	1823.	2.019	.0700
3.982	1424.12	1.64	1247.	1553.	1553.	2.045	.0700
4.088	1419.71	1.70	1247.	1413.	1413.	2.124	.0700
4.194	1415.54	1.69	1408.	1486.	1486.	2.373	.0700
4.300	1411.68	1.66	1870.	1793.	1793.	3.111	.0795
4.427	1404.31	5.01	752.	1065.	1065.	3.767	.0800
5.020	1390.73	1.24	3040.	2691.	2691.	3.767	.0900

Maximum Froude Number (FRDM)	1.05
Cross-Section of Maximum Froude Number (IFR)	27
Minimum Froude Number (FRM)	.05
Cross-Section of Minimum Froude Number (IFM)	28

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Time (TT)	10.7100
Time Step (DTH)	.0700
Number of Iterations Required after Time Step Reduction (ITERR)	2
Flow at Upstream End of Model (QU(1), cfs)	2000.00
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1452.15
Flow at Downstream End of Model (QU(N), cfs)	3767.32
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1390.73

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.210	1452.15	.87	2287.	5617.	5617.	2.000	.0700
3.290	1449.80	.87	2302.	5785.	5785.	2.001	.0700
3.370	1447.46	.87	2302.	5951.	5951.	2.003	.0700
3.450	1445.11	.89	2262.	6109.	6109.	2.005	.0700
3.530	1442.30	.97	2063.	4986.	4986.	2.005	.0700
3.610	1439.37	1.14	1764.	3480.	3480.	2.005	.0700
3.690	1436.34	1.31	1532.	2553.	2553.	2.005	.0700
3.770	1433.25	1.44	1397.	2168.	2168.	2.008	.0700
3.876	1428.66	1.54	1311.	1823.	1823.	2.018	.0700
3.982	1424.12	1.64	1247.	1553.	1553.	2.045	.0700
4.088	1419.71	1.70	1247.	1413.	1413.	2.124	.0700
4.194	1415.54	1.69	1408.	1486.	1486.	2.373	.0700
4.300	1411.68	1.66	1870.	1793.	1793.	3.111	.0795
4.427	1404.31	5.01	752.	1065.	1065.	3.767	.0800
5.020	1390.73	1.24	3040.	2691.	2691.	3.767	.0900

Maximum Froude Number (FRDM)	1.05
Cross-Section of Maximum Froude Number (IFR)	27
Minimum Froude Number (FRM)	.05
Cross-Section of Minimum Froude Number (IFM)	28

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Time (TT)	12.4600
Time Step (DTH)	.0700
Number of Iterations Required after Time Step Reduction (ITERR)	2
Flow at Upstream End of Model (QU(1), cfs)	2000.00
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1452.15
Flow at Downstream End of Model (QU(N), cfs)	3767.32
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1390.73

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.210	1452.15	.87	2287.	5617.	5617.	2.000	.0700
3.290	1449.80	.87	2302.	5785.	5785.	2.001	.0700
3.370	1447.46	.87	2302.	5951.	5951.	2.003	.0700
3.450	1445.11	.89	2262.	6109.	6109.	2.005	.0700
3.530	1442.30	.97	2063.	4986.	4986.	2.005	.0700
3.610	1439.37	1.14	1764.	3480.	3480.	2.005	.0700
3.690	1436.34	1.31	1532.	2553.	2553.	2.005	.0700
3.770	1433.25	1.44	1397.	2168.	2168.	2.007	.0700
3.876	1428.66	1.54	1311.	1823.	1823.	2.019	.0700
3.982	1424.12	1.64	1247.	1553.	1553.	2.045	.0700
4.088	1419.71	1.70	1247.	1413.	1413.	2.124	.0700
4.194	1415.54	1.69	1408.	1486.	1486.	2.373	.0700
4.300	1411.68	1.66	1870.	1793.	1793.	3.111	.0795
4.427	1404.31	5.01	752.	1065.	1065.	3.767	.0800
5.020	1390.73	1.24	3040.	2691.	2691.	3.767	.0900

Maximum Froude Number (FRDM)	1.05
Cross-Section of Maximum Froude Number (IFR)	27
Minimum Froude Number (FRM)	.05
Cross-Section of Minimum Froude Number (IFM)	28

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Time (TT)	14.2100
Time Step (DTH)	.0700
Number of Iterations Required after Time Step Reduction (ITERR)	2
Flow at Upstream End of Model (QU(1), cfs)	2000.00
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1452.15
Flow at Downstream End of Model (QU(N), cfs)	3767.32
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1390.73

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.210	1452.15	.87	2287.	5617.	5617.	2.000	.0700
3.290	1449.80	.87	2302.	5785.	5785.	2.001	.0700
3.370	1447.46	.87	2302.	5951.	5951.	2.003	.0700
3.450	1445.11	.89	2262.	6109.	6109.	2.005	.0700
3.530	1442.30	.97	2063.	4986.	4986.	2.005	.0700
3.610	1439.37	1.14	1764.	3480.	3480.	2.005	.0700
3.690	1436.34	1.31	1532.	2553.	2553.	2.005	.0700
3.770	1433.25	1.44	1397.	2168.	2168.	2.008	.0700
3.876	1428.66	1.54	1311.	1823.	1823.	2.018	.0700
3.982	1424.12	1.64	1247.	1553.	1553.	2.045	.0700
4.088	1419.71	1.70	1247.	1413.	1413.	2.124	.0700
4.194	1415.54	1.69	1408.	1486.	1486.	2.373	.0700
4.300	1411.68	1.66	1870.	1793.	1793.	3.111	.0795
4.427	1404.31	5.01	752.	1065.	1065.	3.767	.0800
5.020	1390.73	1.24	3040.	2691.	2691.	3.767	.0900

Maximum Froude Number (FRDM)	1.05
Cross-Section of Maximum Froude Number (IFR)	27
Minimum Froude Number (FRM)	.05
Cross-Section of Minimum Froude Number (IFM)	28

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Time (TT)	15.9600
Time Step (DTH)	.0700
Number of Iterations Required after Time Step Reduction (ITERR)	2
Flow at Upstream End of Model (QU(1), cfs)	2000.00
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1452.15
Flow at Downstream End of Model (QU(N), cfs)	3767.32
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1390.73

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.210	1452.15	.87	2287.	5617.	5617.	2.000	.0700
3.290	1449.80	.87	2302.	5785.	5785.	2.001	.0700
3.370	1447.46	.87	2302.	5951.	5951.	2.003	.0700
3.450	1445.11	.89	2262.	6109.	6109.	2.005	.0700
3.530	1442.30	.97	2063.	4986.	4986.	2.005	.0700
3.610	1439.37	1.14	1764.	3480.	3480.	2.005	.0700
3.690	1436.34	1.31	1532.	2553.	2553.	2.005	.0700
3.770	1433.25	1.44	1397.	2168.	2168.	2.007	.0700
3.876	1428.66	1.54	1311.	1823.	1823.	2.019	.0700
3.982	1424.12	1.64	1247.	1553.	1553.	2.045	.0700
4.088	1419.71	1.70	1247.	1413.	1413.	2.124	.0700
4.194	1415.54	1.69	1408.	1486.	1486.	2.373	.0700
4.300	1411.68	1.66	1870.	1793.	1793.	3.111	.0795
4.427	1404.31	5.01	752.	1065.	1065.	3.767	.0800
5.020	1390.73	1.24	3040.	2691.	2691.	3.767	.0900

Maximum Froude Number (FRDM)	1.05
Cross-Section of Maximum Froude Number (IFR)	27
Minimum Froude Number (FRM)	.05
Cross-Section of Minimum Froude Number (IFM)	28

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Time (TT)	17.7100
Time Step (DTH)	.0700
Number of Iterations Required after Time Step Reduction (ITERR)	2
Flow at Upstream End of Model (QU(1), cfs)	2000.00
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1452.15
Flow at Downstream End of Model (QU(N), cfs)	3767.32
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1390.73

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.210	1452.15	.87	2287.	5617.	5617.	2.000	.0700
3.290	1449.80	.87	2302.	5785.	5785.	2.001	.0700
3.370	1447.46	.87	2302.	5951.	5951.	2.003	.0700
3.450	1445.11	.89	2262.	6109.	6109.	2.005	.0700
3.530	1442.30	.97	2063.	4986.	4986.	2.005	.0700
3.610	1439.37	1.14	1764.	3480.	3480.	2.005	.0700
3.690	1436.34	1.31	1532.	2553.	2553.	2.005	.0700
3.770	1433.25	1.44	1397.	2168.	2168.	2.008	.0700
3.876	1428.66	1.54	1311.	1823.	1823.	2.018	.0700
3.982	1424.12	1.64	1247.	1553.	1553.	2.045	.0700
4.088	1419.71	1.70	1247.	1413.	1413.	2.124	.0700
4.194	1415.54	1.69	1408.	1486.	1486.	2.373	.0700
4.300	1411.68	1.66	1870.	1793.	1793.	3.111	.0795
4.427	1404.31	5.01	752.	1065.	1065.	3.767	.0800
5.020	1390.73	1.24	3040.	2691.	2691.	3.767	.0900

Maximum Froude Number (FRDM)	1.05
Cross-Section of Maximum Froude Number (IFR)	27
Minimum Froude Number (FRM)	.05
Cross-Section of Minimum Froude Number (IFM)	28

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Time (TT)	19.4600
Time Step (DTH)	.0700
Number of Iterations Required after Time Step Reduction (ITERR)	2
Flow at Upstream End of Model (QU(1), cfs)	2000.00
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1452.15
Flow at Downstream End of Model (QU(N), cfs)	3767.32
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1390.73

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.210	1452.15	.87	2287.	5617.	5617.	2.000	.0700
3.290	1449.80	.87	2302.	5785.	5785.	2.001	.0700
3.370	1447.46	.87	2302.	5951.	5951.	2.003	.0700
3.450	1445.11	.89	2262.	6109.	6109.	2.005	.0700
3.530	1442.30	.97	2063.	4986.	4986.	2.005	.0700
3.610	1439.37	1.14	1764.	3480.	3480.	2.005	.0700
3.690	1436.34	1.31	1532.	2553.	2553.	2.005	.0700
3.770	1433.25	1.44	1397.	2168.	2168.	2.007	.0700
3.876	1428.66	1.54	1311.	1823.	1823.	2.019	.0700
3.982	1424.12	1.64	1247.	1553.	1553.	2.045	.0700
4.088	1419.71	1.70	1247.	1413.	1413.	2.124	.0700
4.194	1415.54	1.69	1408.	1486.	1486.	2.373	.0700
4.300	1411.68	1.66	1870.	1793.	1793.	3.111	.0795
4.427	1404.31	5.01	752.	1065.	1065.	3.767	.0800
5.020	1390.73	1.24	3040.	2691.	2691.	3.767	.0900

Maximum Froude Number (FRDM)	1.05
Cross-Section of Maximum Froude Number (IFR)	27
Minimum Froude Number (FRM)	.05
Cross-Section of Minimum Froude Number (IFM)	28

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Time (TT)	21.2100
Time Step (DTH)	.0700
Number of Iterations Required after Time Step Reduction (ITERR)	2
Flow at Upstream End of Model (QU(1), cfs)	2000.00
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1452.15
Flow at Downstream End of Model (QU(N), cfs)	3767.32
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1390.73

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.210	1452.15	.87	2287.	5617.	5617.	2.000	.0700
3.290	1449.80	.87	2302.	5785.	5785.	2.001	.0700
3.370	1447.46	.87	2302.	5951.	5951.	2.003	.0700
3.450	1445.11	.89	2262.	6109.	6109.	2.005	.0700
3.530	1442.30	.97	2063.	4986.	4986.	2.005	.0700
3.610	1439.37	1.14	1764.	3480.	3480.	2.005	.0700
3.690	1436.34	1.31	1532.	2553.	2553.	2.005	.0700
3.770	1433.25	1.44	1397.	2168.	2168.	2.008	.0700
3.876	1428.66	1.54	1311.	1823.	1823.	2.018	.0700
3.982	1424.12	1.64	1247.	1553.	1553.	2.045	.0700
4.088	1419.71	1.70	1247.	1413.	1413.	2.124	.0700
4.194	1415.54	1.69	1408.	1486.	1486.	2.373	.0700
4.300	1411.68	1.66	1870.	1793.	1793.	3.111	.0795
4.427	1404.31	5.01	752.	1065.	1065.	3.767	.0800
5.020	1390.73	1.24	3040.	2691.	2691.	3.767	.0900

Maximum Froude Number (FRDM)	1.05
Cross-Section of Maximum Froude Number (IFR)	27
Minimum Froude Number (FRM)	.05
Cross-Section of Minimum Froude Number (IFM)	28

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Time (TT)	22.9599
Time Step (DTH)	.0700
Number of Iterations Required after Time Step Reduction (ITERR)	2
Flow at Upstream End of Model (QU(1), cfs)	2000.00
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1452.15
Flow at Downstream End of Model (QU(N), cfs)	3767.32
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1390.73

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.210	1452.15	.87	2287.	5617.	5617.	2.000	.0700
3.290	1449.80	.87	2302.	5785.	5785.	2.001	.0700
3.370	1447.46	.87	2302.	5951.	5951.	2.003	.0700
3.450	1445.11	.89	2262.	6109.	6109.	2.005	.0700
3.530	1442.30	.97	2063.	4986.	4986.	2.005	.0700
3.610	1439.37	1.14	1764.	3480.	3480.	2.005	.0700
3.690	1436.34	1.31	1532.	2553.	2553.	2.005	.0700
3.770	1433.25	1.44	1397.	2168.	2168.	2.007	.0700
3.876	1428.66	1.54	1311.	1823.	1823.	2.019	.0700
3.982	1424.12	1.64	1247.	1553.	1553.	2.045	.0700
4.088	1419.71	1.70	1247.	1413.	1413.	2.124	.0700
4.194	1415.54	1.69	1408.	1486.	1486.	2.373	.0700
4.300	1411.68	1.66	1870.	1793.	1793.	3.111	.0795
4.427	1404.31	5.01	752.	1065.	1065.	3.767	.0800
5.020	1390.73	1.24	3040.	2691.	2691.	3.767	.0900

Maximum Froude Number (FRDM)	1.05
Cross-Section of Maximum Froude Number (IFR)	27
Minimum Froude Number (FRM)	.05
Cross-Section of Minimum Froude Number (IFM)	28

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Time (TT)	24.7099
Time Step (DTH)	.0700
Number of Iterations Required after Time Step Reduction (ITERR)	2
Flow at Upstream End of Model (QU(1), cfs)	2000.00
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1452.15
Flow at Downstream End of Model (QU(N), cfs)	3767.32
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1390.73

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.210	1452.15	.87	2287.	5617.	5617.	2.000	.0700
3.290	1449.80	.87	2302.	5785.	5785.	2.001	.0700
3.370	1447.46	.87	2302.	5951.	5951.	2.003	.0700
3.450	1445.11	.89	2262.	6109.	6109.	2.005	.0700
3.530	1442.30	.97	2063.	4986.	4986.	2.005	.0700
3.610	1439.37	1.14	1764.	3480.	3480.	2.005	.0700
3.690	1436.34	1.31	1532.	2553.	2553.	2.005	.0700
3.770	1433.25	1.44	1397.	2168.	2168.	2.008	.0700
3.876	1428.66	1.54	1311.	1823.	1823.	2.018	.0700
3.982	1424.12	1.64	1247.	1553.	1553.	2.045	.0700
4.088	1419.71	1.70	1247.	1413.	1413.	2.124	.0700
4.194	1415.54	1.69	1408.	1486.	1486.	2.373	.0700
4.300	1411.68	1.66	1870.	1793.	1793.	3.111	.0795
4.427	1404.31	5.01	752.	1065.	1065.	3.767	.0800
5.020	1390.73	1.24	3040.	2691.	2691.	3.767	.0900

Maximum Froude Number (FRDM)	1.05
Cross-Section of Maximum Froude Number (IFR)	27
Minimum Froude Number (FRM)	.05
Cross-Section of Minimum Froude Number (IFM)	28

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Time (TT)	26.4599
Time Step (DTH)	.0700
Number of Iterations Required after Time Step Reduction (ITERR)	2
Flow at Upstream End of Model (QU(1), cfs)	2000.00
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1452.15
Flow at Downstream End of Model (QU(N), cfs)	3767.32
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1390.73

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.210	1452.15	.87	2287.	5617.	5617.	2.000	.0700
3.290	1449.80	.87	2302.	5785.	5785.	2.001	.0700
3.370	1447.46	.87	2302.	5951.	5951.	2.003	.0700
3.450	1445.11	.89	2262.	6109.	6109.	2.005	.0700
3.530	1442.30	.97	2063.	4986.	4986.	2.005	.0700
3.610	1439.37	1.14	1764.	3480.	3480.	2.005	.0700
3.690	1436.34	1.31	1532.	2553.	2553.	2.005	.0700
3.770	1433.25	1.44	1397.	2168.	2168.	2.007	.0700
3.876	1428.66	1.54	1311.	1823.	1823.	2.019	.0700
3.982	1424.12	1.64	1247.	1553.	1553.	2.045	.0700
4.088	1419.71	1.70	1247.	1413.	1413.	2.124	.0700
4.194	1415.54	1.69	1408.	1486.	1486.	2.373	.0700
4.300	1411.68	1.66	1870.	1793.	1793.	3.111	.0795
4.427	1404.31	5.01	752.	1065.	1065.	3.767	.0800
5.020	1390.73	1.24	3040.	2691.	2691.	3.767	.0900

Maximum Froude Number (FRDM)	1.05
Cross-Section of Maximum Froude Number (IFR)	27
Minimum Froude Number (FRM)	.05
Cross-Section of Minimum Froude Number (IFM)	28

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Time (TT)	28.2099
Time Step (DTH)	.0700
Number of Iterations Required after Time Step Reduction (ITERR)	2
Flow at Upstream End of Model (QU(1), cfs)	2000.00
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1452.15
Flow at Downstream End of Model (QU(N), cfs)	3767.32
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1390.73

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.210	1452.15	.87	2287.	5617.	5617.	2.000	.0700
3.290	1449.80	.87	2302.	5785.	5785.	2.001	.0700
3.370	1447.46	.87	2302.	5951.	5951.	2.003	.0700
3.450	1445.11	.89	2262.	6109.	6109.	2.005	.0700
3.530	1442.30	.97	2063.	4986.	4986.	2.005	.0700
3.610	1439.37	1.14	1764.	3480.	3480.	2.005	.0700
3.690	1436.34	1.31	1532.	2553.	2553.	2.005	.0700
3.770	1433.25	1.44	1397.	2168.	2168.	2.008	.0700
3.876	1428.66	1.54	1311.	1823.	1823.	2.018	.0700
3.982	1424.12	1.64	1247.	1553.	1553.	2.045	.0700
4.088	1419.71	1.70	1247.	1413.	1413.	2.124	.0700
4.194	1415.54	1.69	1408.	1486.	1486.	2.373	.0700
4.300	1411.68	1.66	1870.	1793.	1793.	3.111	.0795
4.427	1404.31	5.01	752.	1065.	1065.	3.767	.0800
5.020	1390.73	1.24	3040.	2691.	2691.	3.767	.0900

Maximum Froude Number (FRDM)	1.05
Cross-Section of Maximum Froude Number (IFR)	27
Minimum Froude Number (FRM)	.05
Cross-Section of Minimum Froude Number (IFM)	28

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Time (TT)	29.9599
Time Step (DTH)	.0700
Number of Iterations Required after Time Step Reduction (ITERR)	2
Flow at Upstream End of Model (QU(1), cfs)	2000.00
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1452.15
Flow at Downstream End of Model (QU(N), cfs)	3767.32
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1390.73

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.210	1452.15	.87	2287.	5617.	5617.	2.000	.0700
3.290	1449.80	.87	2302.	5785.	5785.	2.001	.0700
3.370	1447.46	.87	2302.	5951.	5951.	2.003	.0700
3.450	1445.11	.89	2262.	6109.	6109.	2.005	.0700
3.530	1442.30	.97	2063.	4986.	4986.	2.005	.0700
3.610	1439.37	1.14	1764.	3480.	3480.	2.005	.0700
3.690	1436.34	1.31	1532.	2553.	2553.	2.005	.0700
3.770	1433.25	1.44	1397.	2168.	2168.	2.007	.0700
3.876	1428.66	1.54	1311.	1823.	1823.	2.019	.0700
3.982	1424.12	1.64	1247.	1553.	1553.	2.045	.0700
4.088	1419.71	1.70	1247.	1413.	1413.	2.124	.0700
4.194	1415.54	1.69	1408.	1486.	1486.	2.373	.0700
4.300	1411.68	1.66	1870.	1793.	1793.	3.111	.0795
4.427	1404.31	5.01	752.	1065.	1065.	3.767	.0800
5.020	1390.73	1.24	3040.	2691.	2691.	3.767	.0900

Maximum Froude Number (FRDM)	1.05
Cross-Section of Maximum Froude Number (IFR)	27
Minimum Froude Number (FRM)	.05
Cross-Section of Minimum Froude Number (IFM)	28

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Time (TT)	31.7099
Time Step (DTH)	.0700
Number of Iterations Required after Time Step Reduction (ITERR)	2
Flow at Upstream End of Model (QU(1), cfs)	2000.00
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1452.15
Flow at Downstream End of Model (QU(N), cfs)	3767.32
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1390.73

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.210	1452.15	.87	2287.	5617.	5617.	2.000	.0700
3.290	1449.80	.87	2302.	5785.	5785.	2.001	.0700
3.370	1447.46	.87	2302.	5951.	5951.	2.003	.0700
3.450	1445.11	.89	2262.	6109.	6109.	2.005	.0700
3.530	1442.30	.97	2063.	4986.	4986.	2.005	.0700
3.610	1439.37	1.14	1764.	3480.	3480.	2.005	.0700
3.690	1436.34	1.31	1532.	2553.	2553.	2.005	.0700
3.770	1433.25	1.44	1397.	2168.	2168.	2.008	.0700
3.876	1428.66	1.54	1311.	1823.	1823.	2.018	.0700
3.982	1424.12	1.64	1247.	1553.	1553.	2.045	.0700
4.088	1419.71	1.70	1247.	1413.	1413.	2.124	.0700
4.194	1415.54	1.69	1408.	1486.	1486.	2.373	.0700
4.300	1411.68	1.66	1870.	1793.	1793.	3.111	.0795
4.427	1404.31	5.01	752.	1065.	1065.	3.767	.0800
5.020	1390.73	1.24	3040.	2691.	2691.	3.767	.0900

Maximum Froude Number (FRDM)	1.05
Cross-Section of Maximum Froude Number (IFR)	27
Minimum Froude Number (FRM)	.05
Cross-Section of Minimum Froude Number (IFM)	28

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Time (TT)	33.4599
Time Step (DTH)	.0700
Number of Iterations Required after Time Step Reduction (ITERR)	2
Flow at Upstream End of Model (QU(1), cfs)	2000.00
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1452.15
Flow at Downstream End of Model (QU(N), cfs)	3767.32
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1390.73

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.210	1452.15	.87	2287.	5617.	5617.	2.000	.0700
3.290	1449.80	.87	2302.	5785.	5785.	2.001	.0700
3.370	1447.46	.87	2302.	5951.	5951.	2.003	.0700
3.450	1445.11	.89	2262.	6109.	6109.	2.005	.0700
3.530	1442.30	.97	2063.	4986.	4986.	2.005	.0700
3.610	1439.37	1.14	1764.	3480.	3480.	2.005	.0700
3.690	1436.34	1.31	1532.	2553.	2553.	2.005	.0700
3.770	1433.25	1.44	1397.	2168.	2168.	2.007	.0700
3.876	1428.66	1.54	1311.	1823.	1823.	2.019	.0700
3.982	1424.12	1.64	1247.	1553.	1553.	2.045	.0700
4.088	1419.71	1.70	1247.	1413.	1413.	2.124	.0700
4.194	1415.54	1.69	1408.	1486.	1486.	2.373	.0700
4.300	1411.68	1.66	1870.	1793.	1793.	3.111	.0795
4.427	1404.31	5.01	752.	1065.	1065.	3.767	.0800
5.020	1390.73	1.24	3040.	2691.	2691.	3.767	.0900

Maximum Froude Number (FRDM)	1.05
Cross-Section of Maximum Froude Number (IFR)	27
Minimum Froude Number (FRM)	.05
Cross-Section of Minimum Froude Number (IFM)	28

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Time (TT)	35.2099
Time Step (DTH)	.0700
Number of Iterations Required after Time Step Reduction (ITERR)	2
Flow at Upstream End of Model (QU(1), cfs)	2000.00
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1452.15
Flow at Downstream End of Model (QU(N), cfs)	3767.32
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1390.73

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.210	1452.15	.87	2287.	5617.	5617.	2.000	.0700
3.290	1449.80	.87	2302.	5785.	5785.	2.001	.0700
3.370	1447.46	.87	2302.	5951.	5951.	2.003	.0700
3.450	1445.11	.89	2262.	6109.	6109.	2.005	.0700
3.530	1442.30	.97	2063.	4986.	4986.	2.005	.0700
3.610	1439.37	1.14	1764.	3480.	3480.	2.005	.0700
3.690	1436.34	1.31	1532.	2553.	2553.	2.005	.0700
3.770	1433.25	1.44	1397.	2168.	2168.	2.008	.0700
3.876	1428.66	1.54	1311.	1823.	1823.	2.018	.0700
3.982	1424.12	1.64	1247.	1553.	1553.	2.045	.0700
4.088	1419.71	1.70	1247.	1413.	1413.	2.124	.0700
4.194	1415.54	1.69	1408.	1486.	1486.	2.373	.0700
4.300	1411.68	1.66	1870.	1793.	1793.	3.111	.0795
4.427	1404.31	5.01	752.	1065.	1065.	3.767	.0800
5.020	1390.73	1.24	3040.	2691.	2691.	3.767	.0900

Maximum Froude Number (FRDM)	1.05
Cross-Section of Maximum Froude Number (IFR)	27
Minimum Froude Number (FRM)	.05
Cross-Section of Minimum Froude Number (IFM)	28

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Time (TT)	36.9599
Time Step (DTH)	.0700
Number of Iterations Required after Time Step Reduction (ITERR)	2
Flow at Upstream End of Model (QU(1), cfs)	2000.00
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1452.15
Flow at Downstream End of Model (QU(N), cfs)	3767.32
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1390.73

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.210	1452.15	.87	2287.	5617.	5617.	2.000	.0700
3.290	1449.80	.87	2302.	5785.	5785.	2.001	.0700
3.370	1447.46	.87	2302.	5951.	5951.	2.003	.0700
3.450	1445.11	.89	2262.	6109.	6109.	2.005	.0700
3.530	1442.30	.97	2063.	4986.	4986.	2.005	.0700
3.610	1439.37	1.14	1764.	3480.	3480.	2.005	.0700
3.690	1436.34	1.31	1532.	2553.	2553.	2.005	.0700
3.770	1433.25	1.44	1397.	2168.	2168.	2.007	.0700
3.876	1428.66	1.54	1311.	1823.	1823.	2.019	.0700
3.982	1424.12	1.64	1247.	1553.	1553.	2.045	.0700
4.088	1419.71	1.70	1247.	1413.	1413.	2.124	.0700
4.194	1415.54	1.69	1408.	1486.	1486.	2.373	.0700
4.300	1411.68	1.66	1870.	1793.	1793.	3.111	.0795
4.427	1404.31	5.01	752.	1065.	1065.	3.767	.0800
5.020	1390.73	1.24	3040.	2691.	2691.	3.767	.0900

Maximum Froude Number (FRDM)	1.05
Cross-Section of Maximum Froude Number (IFR)	27
Minimum Froude Number (FRM)	.05
Cross-Section of Minimum Froude Number (IFM)	28

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Time (TT)	38.7099
Time Step (DTH)	.0700
Number of Iterations Required after Time Step Reduction (ITERR)	2
Flow at Upstream End of Model (QU(1), cfs)	2000.00
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1452.15
Flow at Downstream End of Model (QU(N), cfs)	3767.32
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1390.73

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.210	1452.15	.87	2287.	5617.	5617.	2.000	.0700
3.290	1449.80	.87	2302.	5785.	5785.	2.001	.0700
3.370	1447.46	.87	2302.	5951.	5951.	2.003	.0700
3.450	1445.11	.89	2262.	6109.	6109.	2.005	.0700
3.530	1442.30	.97	2063.	4986.	4986.	2.005	.0700
3.610	1439.37	1.14	1764.	3480.	3480.	2.005	.0700
3.690	1436.34	1.31	1532.	2553.	2553.	2.005	.0700
3.770	1433.25	1.44	1397.	2168.	2168.	2.008	.0700
3.876	1428.66	1.54	1311.	1823.	1823.	2.018	.0700
3.982	1424.12	1.64	1247.	1553.	1553.	2.045	.0700
4.088	1419.71	1.70	1247.	1413.	1413.	2.124	.0700
4.194	1415.54	1.69	1408.	1486.	1486.	2.373	.0700
4.300	1411.68	1.66	1870.	1793.	1793.	3.111	.0795
4.427	1404.31	5.01	752.	1065.	1065.	3.767	.0800
5.020	1390.73	1.24	3040.	2691.	2691.	3.767	.0900

Maximum Froude Number (FRDM)	1.05
Cross-Section of Maximum Froude Number (IFR)	27
Minimum Froude Number (FRM)	.05
Cross-Section of Minimum Froude Number (IFM)	28

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Time (TT)	40.4599
Time Step (DTH)	.0700
Number of Iterations Required after Time Step Reduction (ITERR)	2
Flow at Upstream End of Model (QU(1), cfs)	2799.81
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1452.24
Flow at Downstream End of Model (QU(N), cfs)	3767.33
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1390.73

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.210	1452.24	1.00	2813.	5691.	5691.	2.800	.0700
3.290	1449.88	.97	2766.	5855.	5855.	2.694	.0700
3.370	1447.52	.96	2691.	6012.	6012.	2.582	.0700
3.450	1445.16	.96	2563.	6158.	6158.	2.465	.0700
3.530	1442.35	1.01	2321.	5314.	5314.	2.343	.0700
3.610	1439.41	1.16	1903.	3636.	3636.	2.214	.0700
3.690	1436.37	1.33	1598.	2617.	2617.	2.120	.0700
3.770	1433.26	1.45	1422.	2184.	2184.	2.066	.0700
3.876	1428.66	1.55	1311.	1823.	1823.	2.036	.0700
3.982	1424.12	1.64	1247.	1553.	1553.	2.050	.0700
4.088	1419.71	1.70	1247.	1413.	1413.	2.125	.0700
4.194	1415.54	1.69	1408.	1486.	1486.	2.373	.0700
4.300	1411.68	1.66	1870.	1793.	1793.	3.111	.0795
4.427	1404.31	5.01	752.	1065.	1065.	3.767	.0800
5.020	1390.73	1.24	3040.	2691.	2691.	3.767	.0900

Maximum Froude Number (FRDM)	1.05
Cross-Section of Maximum Froude Number (IFR)	27
Minimum Froude Number (FRM)	.05
Cross-Section of Minimum Froude Number (IFM)	28

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Time (TT)	42.2099
Time Step (DTH)	.0700
Number of Iterations Required after Time Step Reduction (ITERR)	1
Flow at Upstream End of Model (QU(1), cfs)	8777.51
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1452.73
Flow at Downstream End of Model (QU(N), cfs)	4222.07
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1390.86

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.210	1452.73	1.54	5707.	6085.	6085.	8.778	.0700
3.290	1450.32	1.46	5386.	6230.	6230.	7.875	.0700
3.370	1447.89	1.38	4921.	6349.	6349.	6.784	.0700
3.450	1445.45	1.34	4380.	6447.	6447.	5.850	.0700
3.530	1442.64	1.32	3999.	5993.	5993.	5.296	.0700
3.610	1439.79	1.39	3594.	5130.	5130.	4.992	.0700
3.690	1436.82	1.58	3057.	3753.	3753.	4.819	.0700
3.770	1433.73	1.80	2616.	2877.	2877.	4.710	.0700
3.876	1429.18	1.87	2456.	2527.	2527.	4.602	.0700
3.982	1424.69	1.94	2319.	2244.	2244.	4.502	.0700
4.088	1420.27	2.00	2206.	2037.	2037.	4.406	.0700
4.194	1415.94	2.07	2084.	1898.	1898.	4.310	.0700
4.300	1411.68	2.30	1870.	1793.	1793.	4.298	.0796
4.427	1404.69	3.56	1216.	1397.	1397.	4.333	.0800
5.020	1390.86	1.23	3420.	3085.	3085.	4.222	.0900

Maximum Froude Number (FRDM)	.67
Cross-Section of Maximum Froude Number (IFR)	27
Minimum Froude Number (FRM)	.05
Cross-Section of Minimum Froude Number (IFM)	28

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Time (TT)	43.9599
Time Step (DTH)	.0700
Number of Iterations Required after Time Step Reduction (ITERR)	1
Flow at Upstream End of Model (QU(1), cfs)	57891.07
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1454.96
Flow at Downstream End of Model (QU(N), cfs)	41641.96
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1393.56

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.210	1454.96	2.79	20773.	7472.	7472.	57.891	.0800
3.290	1452.54	2.71	21030.	7861.	7861.	57.035	.0800
3.370	1450.12	2.64	21268.	8267.	8267.	56.153	.0800
3.450	1447.60	2.69	20541.	8595.	8595.	55.252	.0800
3.530	1444.82	2.67	20374.	8654.	8654.	54.347	.0800
3.610	1442.03	2.65	20198.	8706.	8706.	53.436	.0800
3.690	1439.24	2.62	20013.	8752.	8752.	52.516	.0800
3.770	1436.32	2.74	18845.	8692.	8692.	51.602	.0800
3.876	1432.00	2.81	17928.	7900.	7900.	50.414	.0800
3.982	1427.71	2.89	17038.	7143.	7143.	49.240	.0800
4.088	1423.47	2.97	16118.	6428.	6428.	47.852	.0800
4.194	1419.31	3.04	15249.	5789.	5789.	46.281	.0800
4.300	1414.86	3.58	12402.	4858.	4858.	44.414	.0871
4.427	1412.97	.96	44281.	9011.	9011.	42.564	.0900
5.020	1393.56	2.85	14588.	4866.	4866.	41.642	.0900

Maximum Froude Number (FRDM)	.39
Cross-Section of Maximum Froude Number (IFR)	25
Minimum Froude Number (FRM)	.04
Cross-Section of Minimum Froude Number (IFM)	28

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Time (TT)	45.7098
Time Step (DTH)	.0700
Number of Iterations Required after Time Step Reduction (ITERR)	1
Flow at Upstream End of Model (QU(1), cfs)	22901.54
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1453.57
Flow at Downstream End of Model (QU(N), cfs)	29319.79
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1392.88

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.210	1453.57	2.07	11076.	6587.	6587.	22.902	.0757
3.290	1451.23	2.04	11405.	6909.	6909.	23.320	.0756
3.370	1448.89	2.02	11730.	7228.	7228.	23.747	.0755
3.450	1446.46	2.12	11410.	7458.	7458.	24.173	.0747
3.530	1443.74	2.11	11634.	7606.	7606.	24.583	.0750
3.610	1441.02	2.11	11837.	7740.	7740.	24.994	.0752
3.690	1438.27	2.12	12003.	7860.	7860.	25.401	.0753
3.770	1435.43	2.26	11402.	7883.	7883.	25.796	.0738
3.876	1431.05	2.42	10882.	7032.	7032.	26.288	.0721
3.982	1426.71	2.58	10371.	6204.	6204.	26.770	.0708
4.088	1422.42	2.75	9908.	5422.	5422.	27.253	.0702
4.194	1418.24	2.90	9590.	4735.	4735.	27.770	.0709
4.300	1413.79	3.63	7783.	3801.	3801.	28.261	.0800
4.427	1412.61	.70	41137.	8684.	8684.	28.896	.0900
5.020	1392.88	2.57	11410.	4504.	4504.	29.320	.0900

Maximum Froude Number (FRDM)	.45
Cross-Section of Maximum Froude Number (IFR)	25
Minimum Froude Number (FRM)	.03
Cross-Section of Minimum Froude Number (IFM)	28

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Time (TT)	47.4598
Time Step (DTH)	.0700
Number of Iterations Required after Time Step Reduction (ITERR)	1
Flow at Upstream End of Model (QU(1), cfs)	9031.92
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1452.76
Flow at Downstream End of Model (QU(N), cfs)	15270.21
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1391.92

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.210	1452.76	1.54	5864.	6105.	6105.	9.032	.0700
3.290	1450.41	1.53	5979.	6312.	6312.	9.133	.0700
3.370	1448.06	1.52	6062.	6514.	6514.	9.235	.0700
3.450	1445.68	1.58	5927.	6682.	6682.	9.336	.0700
3.530	1442.94	1.60	5911.	6558.	6558.	9.438	.0700
3.610	1440.19	1.63	5839.	6307.	6307.	9.541	.0700
3.690	1437.38	1.73	5576.	5656.	5656.	9.668	.0700
3.770	1434.32	2.17	4547.	3733.	3733.	9.850	.0700
3.876	1429.86	2.25	4470.	3431.	3431.	10.066	.0700
3.982	1425.48	2.32	4488.	3216.	3216.	10.396	.0700
4.088	1421.22	2.36	4690.	3268.	3268.	11.073	.0700
4.194	1416.97	2.51	4635.	3097.	3097.	11.656	.0700
4.300	1412.36	3.66	3309.	2439.	2439.	12.124	.0800
4.427	1411.62	.42	32986.	7773.	7773.	13.742	.0900
5.020	1391.92	2.08	7336.	3993.	3993.	15.270	.0900

Maximum Froude Number (FRDM)	.55
Cross-Section of Maximum Froude Number (IFR)	25
Minimum Froude Number (FRM)	.02
Cross-Section of Minimum Froude Number (IFM)	28

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Time (TT)	49.2098
Time Step (DTH)	.0700
Number of Iterations Required after Time Step Reduction (ITERR)	1
Flow at Upstream End of Model (QU(1), cfs)	5483.62
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1452.49
Flow at Downstream End of Model (QU(N), cfs)	8220.25
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1391.37

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.210	1452.49	1.28	4288.	5895.	5895.	5.484	.0700
3.290	1450.15	1.27	4380.	6089.	6089.	5.579	.0700
3.370	1447.81	1.28	4442.	6278.	6278.	5.675	.0700
3.450	1445.45	1.32	4370.	6445.	6445.	5.769	.0700
3.530	1442.69	1.36	4299.	6085.	6085.	5.863	.0700
3.610	1439.89	1.45	4122.	5430.	5430.	5.965	.0700
3.690	1436.98	1.65	3680.	4144.	4144.	6.077	.0700
3.770	1433.93	1.92	3210.	3165.	3165.	6.176	.0700
3.876	1429.43	2.01	3128.	2860.	2860.	6.293	.0700
3.982	1424.99	2.09	3071.	2622.	2622.	6.408	.0700
4.088	1420.65	2.13	3062.	2464.	2464.	6.521	.0700
4.194	1416.44	2.08	3182.	2423.	2423.	6.632	.0700
4.300	1412.62	1.69	3993.	2692.	2692.	6.732	.0800
4.427	1407.55	.81	8928.	4020.	4020.	7.237	.0887
5.020	1391.37	1.58	5203.	3697.	3697.	8.220	.0900

Maximum Froude Number (FRDM)	.83
Cross-Section of Maximum Froude Number (IFR)	26
Minimum Froude Number (FRM)	.03
Cross-Section of Minimum Froude Number (IFM)	28

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Time (TT)	50.9598
Time Step (DTH)	.0700
Number of Iterations Required after Time Step Reduction (ITERR)	1
Flow at Upstream End of Model (QU(1), cfs)	2566.96
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1452.21
Flow at Downstream End of Model (QU(N), cfs)	4379.28
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1390.90

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.210	1452.21	.96	2675.	5672.	5672.	2.567	.0700
3.290	1449.88	.97	2774.	5856.	5856.	2.691	.0700
3.370	1447.55	.99	2849.	6036.	6036.	2.812	.0700
3.450	1445.21	1.02	2864.	6207.	6207.	2.932	.0700
3.530	1442.43	1.09	2799.	5608.	5608.	3.043	.0700
3.610	1439.57	1.25	2537.	4277.	4277.	3.163	.0700
3.690	1436.60	1.44	2264.	3186.	3186.	3.269	.0700
3.770	1433.52	1.64	2042.	2567.	2567.	3.359	.0700
3.876	1428.99	1.75	1983.	2263.	2263.	3.463	.0700
3.982	1424.51	1.84	1937.	2025.	2025.	3.565	.0700
4.088	1420.12	1.92	1911.	1867.	1867.	3.667	.0700
4.194	1415.83	2.00	1883.	1786.	1786.	3.767	.0700
4.300	1411.69	2.09	1894.	1805.	1805.	3.949	.0793
4.427	1404.81	2.92	1387.	1501.	1501.	4.053	.0800
5.020	1390.90	1.24	3527.	3188.	3188.	4.379	.0900

Maximum Froude Number (FRDM)	.54
Cross-Section of Maximum Froude Number (IFR)	27
Minimum Froude Number (FRM)	.05
Cross-Section of Minimum Froude Number (IFM)	28

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Time (TT)	52.7098
Time Step (DTH)	.0700
Number of Iterations Required after Time Step Reduction (ITERR)	2
Flow at Upstream End of Model (QU(1), cfs)	2000.00
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1452.15
Flow at Downstream End of Model (QU(N), cfs)	3795.11
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1390.74

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.210	1452.15	.87	2291.	5617.	5617.	2.000	.0700
3.290	1449.81	.88	2330.	5790.	5790.	2.041	.0700
3.370	1447.46	.88	2327.	5955.	5955.	2.042	.0700
3.450	1445.11	.89	2288.	6114.	6114.	2.042	.0700
3.530	1442.30	.98	2092.	5024.	5024.	2.041	.0700
3.610	1439.38	1.14	1789.	3509.	3509.	2.042	.0700
3.690	1436.35	1.31	1554.	2575.	2575.	2.041	.0700
3.770	1433.26	1.45	1411.	2177.	2177.	2.042	.0700
3.876	1428.66	1.55	1314.	1825.	1825.	2.041	.0700
3.982	1424.13	1.64	1258.	1561.	1561.	2.062	.0700
4.088	1419.71	1.72	1243.	1410.	1410.	2.135	.0700
4.194	1415.54	1.68	1418.	1494.	1494.	2.381	.0700
4.300	1411.69	1.65	1894.	1805.	1805.	3.131	.0795
4.427	1404.34	4.88	778.	1086.	1086.	3.795	.0800
5.020	1390.74	1.24	3065.	2719.	2719.	3.795	.0900

Maximum Froude Number (FRDM)	1.02
Cross-Section of Maximum Froude Number (IFR)	27
Minimum Froude Number (FRM)	.05
Cross-Section of Minimum Froude Number (IFM)	28

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Time (TT)	54.4598
Time Step (DTH)	.0700
Number of Iterations Required after Time Step Reduction (ITERR)	2
Flow at Upstream End of Model (QU(1), cfs)	2000.00
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1452.15
Flow at Downstream End of Model (QU(N), cfs)	3795.11
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1390.74

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.210	1452.15	.87	2291.	5617.	5617.	2.000	.0700
3.290	1449.81	.88	2331.	5790.	5790.	2.042	.0700
3.370	1447.46	.88	2327.	5955.	5955.	2.041	.0700
3.450	1445.11	.89	2288.	6114.	6114.	2.042	.0700
3.530	1442.30	.98	2092.	5025.	5025.	2.041	.0700
3.610	1439.38	1.14	1789.	3509.	3509.	2.042	.0700
3.690	1436.35	1.31	1554.	2575.	2575.	2.042	.0700
3.770	1433.26	1.45	1411.	2177.	2177.	2.042	.0700
3.876	1428.66	1.55	1314.	1825.	1825.	2.042	.0700
3.982	1424.13	1.64	1258.	1561.	1561.	2.062	.0700
4.088	1419.71	1.72	1243.	1410.	1410.	2.135	.0700
4.194	1415.54	1.68	1418.	1494.	1494.	2.381	.0700
4.300	1411.69	1.65	1894.	1805.	1805.	3.131	.0795
4.427	1404.34	4.88	778.	1086.	1086.	3.795	.0800
5.020	1390.74	1.24	3065.	2719.	2719.	3.795	.0900

Maximum Froude Number (FRDM)	1.02
Cross-Section of Maximum Froude Number (IFR)	27
Minimum Froude Number (FRM)	.05
Cross-Section of Minimum Froude Number (IFM)	28

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Time (TT)	56.2098
Time Step (DTH)	.0700
Number of Iterations Required after Time Step Reduction (ITERR)	2
Flow at Upstream End of Model (QU(1), cfs)	2000.00
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1452.15
Flow at Downstream End of Model (QU(N), cfs)	3795.10
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1390.74

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.210	1452.15	.87	2291.	5617.	5617.	2.000	.0700
3.290	1449.81	.88	2330.	5790.	5790.	2.042	.0700
3.370	1447.46	.88	2327.	5955.	5955.	2.042	.0700
3.450	1445.11	.89	2287.	6113.	6113.	2.041	.0700
3.530	1442.30	.98	2093.	5025.	5025.	2.042	.0700
3.610	1439.38	1.14	1789.	3509.	3509.	2.041	.0700
3.690	1436.35	1.31	1554.	2575.	2575.	2.042	.0700
3.770	1433.26	1.45	1411.	2177.	2177.	2.041	.0700
3.876	1428.66	1.55	1314.	1825.	1825.	2.042	.0700
3.982	1424.13	1.64	1258.	1561.	1561.	2.062	.0700
4.088	1419.71	1.72	1243.	1410.	1410.	2.135	.0700
4.194	1415.54	1.68	1418.	1494.	1494.	2.381	.0700
4.300	1411.69	1.65	1894.	1805.	1805.	3.131	.0795
4.427	1404.34	4.88	778.	1086.	1086.	3.795	.0800
5.020	1390.74	1.24	3065.	2719.	2719.	3.795	.0900

Maximum Froude Number (FRDM)	1.02
Cross-Section of Maximum Froude Number (IFR)	27
Minimum Froude Number (FRM)	.05
Cross-Section of Minimum Froude Number (IFM)	28

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Time (TT)	57.9598
Time Step (DTH)	.0700
Number of Iterations Required after Time Step Reduction (ITERR)	2
Flow at Upstream End of Model (QU(1), cfs)	2000.00
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1452.15
Flow at Downstream End of Model (QU(N), cfs)	3795.10
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1390.74

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.210	1452.15	.87	2291.	5617.	5617.	2.000	.0700
3.290	1449.81	.88	2330.	5790.	5790.	2.041	.0700
3.370	1447.46	.88	2327.	5955.	5955.	2.042	.0700
3.450	1445.11	.89	2288.	6114.	6114.	2.042	.0700
3.530	1442.30	.98	2092.	5024.	5024.	2.041	.0700
3.610	1439.38	1.14	1789.	3509.	3509.	2.042	.0700
3.690	1436.35	1.31	1554.	2575.	2575.	2.041	.0700
3.770	1433.26	1.45	1411.	2177.	2177.	2.042	.0700
3.876	1428.66	1.55	1314.	1825.	1825.	2.041	.0700
3.982	1424.13	1.64	1258.	1561.	1561.	2.062	.0700
4.088	1419.71	1.72	1243.	1410.	1410.	2.135	.0700
4.194	1415.54	1.68	1418.	1494.	1494.	2.381	.0700
4.300	1411.69	1.65	1894.	1805.	1805.	3.131	.0795
4.427	1404.34	4.88	778.	1086.	1086.	3.795	.0800
5.020	1390.74	1.24	3065.	2719.	2719.	3.795	.0900

Maximum Froude Number (FRDM)	1.02
Cross-Section of Maximum Froude Number (IFR)	27
Minimum Froude Number (FRM)	.05
Cross-Section of Minimum Froude Number (IFM)	28

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Time (TT)	59.7098
Time Step (DTH)	.0700
Number of Iterations Required after Time Step Reduction (ITERR)	2
Flow at Upstream End of Model (QU(1), cfs)	2000.00
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1452.15
Flow at Downstream End of Model (QU(N), cfs)	3795.11
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1390.74

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.210	1452.15	.87	2291.	5617.	5617.	2.000	.0700
3.290	1449.81	.88	2331.	5790.	5790.	2.042	.0700
3.370	1447.46	.88	2327.	5955.	5955.	2.041	.0700
3.450	1445.11	.89	2288.	6114.	6114.	2.042	.0700
3.530	1442.30	.98	2092.	5025.	5025.	2.041	.0700
3.610	1439.38	1.14	1789.	3509.	3509.	2.042	.0700
3.690	1436.35	1.31	1554.	2575.	2575.	2.042	.0700
3.770	1433.26	1.45	1411.	2177.	2177.	2.042	.0700
3.876	1428.66	1.55	1314.	1825.	1825.	2.042	.0700
3.982	1424.13	1.64	1258.	1561.	1561.	2.062	.0700
4.088	1419.71	1.72	1243.	1410.	1410.	2.135	.0700
4.194	1415.54	1.68	1418.	1494.	1494.	2.381	.0700
4.300	1411.69	1.65	1894.	1805.	1805.	3.131	.0795
4.427	1404.34	4.88	778.	1086.	1086.	3.795	.0800
5.020	1390.74	1.24	3065.	2719.	2719.	3.795	.0900

Maximum Froude Number (FRDM)	1.02
Cross-Section of Maximum Froude Number (IFR)	27
Minimum Froude Number (FRM)	.05
Cross-Section of Minimum Froude Number (IFM)	28

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Time (TT)	61.4598
Time Step (DTH)	.0700
Number of Iterations Required after Time Step Reduction (ITERR)	2
Flow at Upstream End of Model (QU(1), cfs)	2000.00
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1452.15
Flow at Downstream End of Model (QU(N), cfs)	3795.11
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1390.74

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.210	1452.15	.87	2291.	5617.	5617.	2.000	.0700
3.290	1449.81	.88	2330.	5790.	5790.	2.042	.0700
3.370	1447.46	.88	2327.	5955.	5955.	2.042	.0700
3.450	1445.11	.89	2287.	6113.	6113.	2.041	.0700
3.530	1442.30	.98	2093.	5025.	5025.	2.042	.0700
3.610	1439.38	1.14	1789.	3509.	3509.	2.041	.0700
3.690	1436.35	1.31	1554.	2575.	2575.	2.042	.0700
3.770	1433.26	1.45	1411.	2177.	2177.	2.041	.0700
3.876	1428.66	1.55	1314.	1825.	1825.	2.042	.0700
3.982	1424.13	1.64	1258.	1561.	1561.	2.062	.0700
4.088	1419.71	1.72	1243.	1410.	1410.	2.135	.0700
4.194	1415.54	1.68	1418.	1494.	1494.	2.381	.0700
4.300	1411.69	1.65	1894.	1805.	1805.	3.131	.0795
4.427	1404.34	4.88	778.	1086.	1086.	3.795	.0800
5.020	1390.74	1.24	3065.	2719.	2719.	3.795	.0900

Maximum Froude Number (FRDM)	1.02
Cross-Section of Maximum Froude Number (IFR)	27
Minimum Froude Number (FRM)	.05
Cross-Section of Minimum Froude Number (IFM)	28

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Time (TT)	63.2098
Time Step (DTH)	.0700
Number of Iterations Required after Time Step Reduction (ITERR)	2
Flow at Upstream End of Model (QU(1), cfs)	2000.00
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1452.15
Flow at Downstream End of Model (QU(N), cfs)	3795.10
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1390.74

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.210	1452.15	.87	2291.	5617.	5617.	2.000	.0700
3.290	1449.81	.88	2330.	5790.	5790.	2.041	.0700
3.370	1447.46	.88	2327.	5955.	5955.	2.042	.0700
3.450	1445.11	.89	2288.	6114.	6114.	2.042	.0700
3.530	1442.30	.98	2092.	5024.	5024.	2.041	.0700
3.610	1439.38	1.14	1789.	3509.	3509.	2.042	.0700
3.690	1436.35	1.31	1554.	2575.	2575.	2.041	.0700
3.770	1433.26	1.45	1411.	2177.	2177.	2.042	.0700
3.876	1428.66	1.55	1314.	1825.	1825.	2.041	.0700
3.982	1424.13	1.64	1258.	1561.	1561.	2.062	.0700
4.088	1419.71	1.72	1243.	1410.	1410.	2.135	.0700
4.194	1415.54	1.68	1418.	1494.	1494.	2.381	.0700
4.300	1411.69	1.65	1894.	1805.	1805.	3.131	.0795
4.427	1404.34	4.88	778.	1086.	1086.	3.795	.0800
5.020	1390.74	1.24	3065.	2719.	2719.	3.795	.0900

Maximum Froude Number (FRDM)	1.02
Cross-Section of Maximum Froude Number (IFR)	27
Minimum Froude Number (FRM)	.05
Cross-Section of Minimum Froude Number (IFM)	28

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Time (TT)	64.9598
Time Step (DTH)	.0700
Number of Iterations Required after Time Step Reduction (ITERR)	2
Flow at Upstream End of Model (QU(1), cfs)	2000.00
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1452.15
Flow at Downstream End of Model (QU(N), cfs)	3795.11
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1390.74

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.210	1452.15	.87	2291.	5617.	5617.	2.000	.0700
3.290	1449.81	.88	2331.	5790.	5790.	2.042	.0700
3.370	1447.46	.88	2327.	5955.	5955.	2.041	.0700
3.450	1445.11	.89	2288.	6114.	6114.	2.042	.0700
3.530	1442.30	.98	2092.	5025.	5025.	2.041	.0700
3.610	1439.38	1.14	1789.	3509.	3509.	2.042	.0700
3.690	1436.35	1.31	1554.	2575.	2575.	2.042	.0700
3.770	1433.26	1.45	1411.	2177.	2177.	2.042	.0700
3.876	1428.66	1.55	1314.	1825.	1825.	2.042	.0700
3.982	1424.13	1.64	1258.	1561.	1561.	2.062	.0700
4.088	1419.71	1.72	1243.	1410.	1410.	2.135	.0700
4.194	1415.54	1.68	1418.	1494.	1494.	2.381	.0700
4.300	1411.69	1.65	1894.	1805.	1805.	3.131	.0795
4.427	1404.34	4.88	778.	1086.	1086.	3.795	.0800
5.020	1390.74	1.24	3065.	2719.	2719.	3.795	.0900

Maximum Froude Number (FRDM)	1.02
Cross-Section of Maximum Froude Number (IFR)	27
Minimum Froude Number (FRM)	.05
Cross-Section of Minimum Froude Number (IFM)	28

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Time (TT)	66.7098
Time Step (DTH)	.0700
Number of Iterations Required after Time Step Reduction (ITERR)	2
Flow at Upstream End of Model (QU(1), cfs)	2000.00
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1452.15
Flow at Downstream End of Model (QU(N), cfs)	3795.10
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1390.74

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.210	1452.15	.87	2291.	5617.	5617.	2.000	.0700
3.290	1449.81	.88	2330.	5790.	5790.	2.042	.0700
3.370	1447.46	.88	2327.	5955.	5955.	2.042	.0700
3.450	1445.11	.89	2287.	6113.	6113.	2.041	.0700
3.530	1442.30	.98	2093.	5025.	5025.	2.042	.0700
3.610	1439.38	1.14	1789.	3509.	3509.	2.041	.0700
3.690	1436.35	1.31	1554.	2575.	2575.	2.042	.0700
3.770	1433.26	1.45	1411.	2177.	2177.	2.041	.0700
3.876	1428.66	1.55	1314.	1825.	1825.	2.042	.0700
3.982	1424.13	1.64	1258.	1561.	1561.	2.062	.0700
4.088	1419.71	1.72	1243.	1410.	1410.	2.135	.0700
4.194	1415.54	1.68	1418.	1494.	1494.	2.381	.0700
4.300	1411.69	1.65	1894.	1805.	1805.	3.131	.0795
4.427	1404.34	4.88	778.	1086.	1086.	3.795	.0800
5.020	1390.74	1.24	3065.	2719.	2719.	3.795	.0900

Maximum Froude Number (FRDM)	1.02
Cross-Section of Maximum Froude Number (IFR)	27
Minimum Froude Number (FRM)	.05
Cross-Section of Minimum Froude Number (IFM)	28

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Time (TT)	68.4597
Time Step (DTH)	.0700
Number of Iterations Required after Time Step Reduction (ITERR)	2
Flow at Upstream End of Model (QU(1), cfs)	2000.00
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1452.15
Flow at Downstream End of Model (QU(N), cfs)	3795.10
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1390.74

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.210	1452.15	.87	2291.	5617.	5617.	2.000	.0700
3.290	1449.81	.88	2330.	5790.	5790.	2.041	.0700
3.370	1447.46	.88	2327.	5955.	5955.	2.042	.0700
3.450	1445.11	.89	2288.	6114.	6114.	2.042	.0700
3.530	1442.30	.98	2092.	5024.	5024.	2.041	.0700
3.610	1439.38	1.14	1789.	3509.	3509.	2.042	.0700
3.690	1436.35	1.31	1554.	2575.	2575.	2.041	.0700
3.770	1433.26	1.45	1411.	2177.	2177.	2.042	.0700
3.876	1428.66	1.55	1314.	1825.	1825.	2.041	.0700
3.982	1424.13	1.64	1258.	1561.	1561.	2.062	.0700
4.088	1419.71	1.72	1243.	1410.	1410.	2.135	.0700
4.194	1415.54	1.68	1418.	1494.	1494.	2.381	.0700
4.300	1411.69	1.65	1894.	1805.	1805.	3.131	.0795
4.427	1404.34	4.88	778.	1086.	1086.	3.795	.0800
5.020	1390.74	1.24	3065.	2719.	2719.	3.795	.0900

Maximum Froude Number (FRDM)	1.02
Cross-Section of Maximum Froude Number (IFR)	27
Minimum Froude Number (FRM)	.05
Cross-Section of Minimum Froude Number (IFM)	28

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Time (TT)	70.2097
Time Step (DTH)	.0700
Number of Iterations Required after Time Step Reduction (ITERR)	2
Flow at Upstream End of Model (QU(1), cfs)	2000.00
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1452.15
Flow at Downstream End of Model (QU(N), cfs)	3795.11
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1390.74

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.210	1452.15	.87	2291.	5617.	5617.	2.000	.0700
3.290	1449.81	.88	2331.	5790.	5790.	2.042	.0700
3.370	1447.46	.88	2327.	5955.	5955.	2.041	.0700
3.450	1445.11	.89	2288.	6114.	6114.	2.042	.0700
3.530	1442.30	.98	2092.	5025.	5025.	2.041	.0700
3.610	1439.38	1.14	1789.	3509.	3509.	2.042	.0700
3.690	1436.35	1.31	1554.	2575.	2575.	2.042	.0700
3.770	1433.26	1.45	1411.	2177.	2177.	2.042	.0700
3.876	1428.66	1.55	1314.	1825.	1825.	2.042	.0700
3.982	1424.13	1.64	1258.	1561.	1561.	2.062	.0700
4.088	1419.71	1.72	1243.	1410.	1410.	2.135	.0700
4.194	1415.54	1.68	1418.	1494.	1494.	2.381	.0700
4.300	1411.69	1.65	1894.	1805.	1805.	3.131	.0795
4.427	1404.34	4.88	778.	1086.	1086.	3.795	.0800
5.020	1390.74	1.24	3065.	2719.	2719.	3.795	.0900

Maximum Froude Number (FRDM)	1.02
Cross-Section of Maximum Froude Number (IFR)	27
Minimum Froude Number (FRM)	.05
Cross-Section of Minimum Froude Number (IFM)	28

- - - - - - - - - - - - - - - - NEXT CYCLE - - - - - - - - - - - - - - - -

Time (TT)	71.9597
Time Step (DTH)	.0700
Number of Iterations Required after Time Step Reduction (ITERR)	2
Flow at Upstream End of Model (QU(1), cfs)	2000.00
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1452.15
Flow at Downstream End of Model (QU(N), cfs)	3795.11
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1390.74

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.210	1452.15	.87	2291.	5617.	5617.	2.000	.0700
3.290	1449.81	.88	2330.	5790.	5790.	2.042	.0700
3.370	1447.46	.88	2327.	5955.	5955.	2.042	.0700
3.450	1445.11	.89	2287.	6113.	6113.	2.041	.0700
3.530	1442.30	.98	2093.	5025.	5025.	2.042	.0700
3.610	1439.38	1.14	1789.	3509.	3509.	2.041	.0700
3.690	1436.35	1.31	1554.	2575.	2575.	2.042	.0700
3.770	1433.26	1.45	1411.	2177.	2177.	2.041	.0700
3.876	1428.66	1.55	1314.	1825.	1825.	2.042	.0700
3.982	1424.13	1.64	1258.	1561.	1561.	2.062	.0700
4.088	1419.71	1.72	1243.	1410.	1410.	2.135	.0700
4.194	1415.54	1.68	1418.	1494.	1494.	2.381	.0700
4.300	1411.69	1.65	1894.	1805.	1805.	3.131	.0795
4.427	1404.34	4.88	778.	1086.	1086.	3.795	.0800
5.020	1390.74	1.24	3065.	2719.	2719.	3.795	.0900

Maximum Froude Number (FRDM)	1.02
Cross-Section of Maximum Froude Number (IFR)	27
Minimum Froude Number (FRM)	.05
Cross-Section of Minimum Froude Number (IFM)	28

- - - - - - - - - - - - - - - - NEXT CYCLE - - - - - - - - - - - - - - - -

Time (TT)	73.7097
Time Step (DTH)	.0700
Number of Iterations Required after Time Step Reduction (ITERR)	2
Flow at Upstream End of Model (QU(1), cfs)	2000.00
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1452.15
Flow at Downstream End of Model (QU(N), cfs)	3795.10
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1390.74

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.210	1452.15	.87	2291.	5617.	5617.	2.000	.0700
3.290	1449.81	.88	2330.	5790.	5790.	2.041	.0700
3.370	1447.46	.88	2327.	5955.	5955.	2.042	.0700
3.450	1445.11	.89	2288.	6114.	6114.	2.042	.0700
3.530	1442.30	.98	2092.	5024.	5024.	2.041	.0700
3.610	1439.38	1.14	1789.	3509.	3509.	2.042	.0700
3.690	1436.35	1.31	1554.	2575.	2575.	2.041	.0700
3.770	1433.26	1.45	1411.	2177.	2177.	2.042	.0700
3.876	1428.66	1.55	1314.	1825.	1825.	2.041	.0700
3.982	1424.13	1.64	1258.	1561.	1561.	2.062	.0700
4.088	1419.71	1.72	1243.	1410.	1410.	2.135	.0700
4.194	1415.54	1.68	1418.	1494.	1494.	2.381	.0700
4.300	1411.69	1.65	1894.	1805.	1805.	3.131	.0795
4.427	1404.34	4.88	778.	1086.	1086.	3.795	.0800
5.020	1390.74	1.24	3065.	2719.	2719.	3.795	.0900

Maximum Froude Number (FRDM)	1.02
Cross-Section of Maximum Froude Number (IFR)	27
Minimum Froude Number (FRM)	.05
Cross-Section of Minimum Froude Number (IFM)	28

- - - - - - - - - - - - - - - - NEXT CYCLE - - - - - - - - - - - - - - - -

Time (TT)	75.4597
Time Step (DTH)	.0700
Number of Iterations Required after Time Step Reduction (ITERR)	2
Flow at Upstream End of Model (QU(1), cfs)	2000.00
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1452.15
Flow at Downstream End of Model (QU(N), cfs)	3795.11
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1390.74

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.210	1452.15	.87	2291.	5617.	5617.	2.000	.0700
3.290	1449.81	.88	2331.	5790.	5790.	2.042	.0700
3.370	1447.46	.88	2327.	5955.	5955.	2.041	.0700
3.450	1445.11	.89	2288.	6114.	6114.	2.042	.0700
3.530	1442.30	.98	2092.	5025.	5025.	2.041	.0700
3.610	1439.38	1.14	1789.	3509.	3509.	2.042	.0700
3.690	1436.35	1.31	1554.	2575.	2575.	2.042	.0700
3.770	1433.26	1.45	1411.	2177.	2177.	2.042	.0700
3.876	1428.66	1.55	1314.	1825.	1825.	2.042	.0700
3.982	1424.13	1.64	1258.	1561.	1561.	2.062	.0700
4.088	1419.71	1.72	1243.	1410.	1410.	2.135	.0700
4.194	1415.54	1.68	1418.	1494.	1494.	2.381	.0700
4.300	1411.69	1.65	1894.	1805.	1805.	3.131	.0795
4.427	1404.34	4.88	778.	1086.	1086.	3.795	.0800
5.020	1390.74	1.24	3065.	2719.	2719.	3.795	.0900

Maximum Froude Number (FRDM)	1.02
Cross-Section of Maximum Froude Number (IFR)	27
Minimum Froude Number (FRM)	.05
Cross-Section of Minimum Froude Number (IFM)	28

- - - - - - - - - - - - - - - - NEXT CYCLE - - - - - - - - - - - - - - - -

Time (TT)	77.2097
Time Step (DTH)	.0700
Number of Iterations Required after Time Step Reduction (ITERR)	2
Flow at Upstream End of Model (QU(1), cfs)	2000.00
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1452.15
Flow at Downstream End of Model (QU(N), cfs)	3795.10
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1390.74

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.210	1452.15	.87	2291.	5617.	5617.	2.000	.0700
3.290	1449.81	.88	2330.	5790.	5790.	2.042	.0700
3.370	1447.46	.88	2327.	5955.	5955.	2.042	.0700
3.450	1445.11	.89	2287.	6113.	6113.	2.041	.0700
3.530	1442.30	.98	2093.	5025.	5025.	2.042	.0700
3.610	1439.38	1.14	1789.	3509.	3509.	2.041	.0700
3.690	1436.35	1.31	1554.	2575.	2575.	2.042	.0700
3.770	1433.26	1.45	1411.	2177.	2177.	2.041	.0700
3.876	1428.66	1.55	1314.	1825.	1825.	2.042	.0700
3.982	1424.13	1.64	1258.	1561.	1561.	2.062	.0700
4.088	1419.71	1.72	1243.	1410.	1410.	2.135	.0700
4.194	1415.54	1.68	1418.	1494.	1494.	2.381	.0700
4.300	1411.69	1.65	1894.	1805.	1805.	3.131	.0795
4.427	1404.34	4.88	778.	1086.	1086.	3.795	.0800
5.020	1390.74	1.24	3065.	2719.	2719.	3.795	.0900

Maximum Froude Number (FRDM)	1.02
Cross-Section of Maximum Froude Number (IFR)	27
Minimum Froude Number (FRM)	.05
Cross-Section of Minimum Froude Number (IFM)	28

- - - - - - - - - - - - - - - - NEXT CYCLE - - - - - - - - - - - - - - - -

Time (TT)	78.9597
Time Step (DTH)	.0700
Number of Iterations Required after Time Step Reduction (ITERR)	2
Flow at Upstream End of Model (QU(1), cfs)	2000.00
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1452.15
Flow at Downstream End of Model (QU(N), cfs)	3795.10
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1390.74

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.210	1452.15	.87	2291.	5617.	5617.	2.000	.0700
3.290	1449.81	.88	2330.	5790.	5790.	2.041	.0700
3.370	1447.46	.88	2327.	5955.	5955.	2.042	.0700
3.450	1445.11	.89	2288.	6114.	6114.	2.042	.0700
3.530	1442.30	.98	2092.	5024.	5024.	2.041	.0700
3.610	1439.38	1.14	1789.	3509.	3509.	2.042	.0700
3.690	1436.35	1.31	1554.	2575.	2575.	2.041	.0700
3.770	1433.26	1.45	1411.	2177.	2177.	2.042	.0700
3.876	1428.66	1.55	1314.	1825.	1825.	2.041	.0700
3.982	1424.13	1.64	1258.	1561.	1561.	2.062	.0700
4.088	1419.71	1.72	1243.	1410.	1410.	2.135	.0700
4.194	1415.54	1.68	1418.	1494.	1494.	2.381	.0700
4.300	1411.69	1.65	1894.	1805.	1805.	3.131	.0795
4.427	1404.34	4.88	778.	1086.	1086.	3.795	.0800
5.020	1390.74	1.24	3065.	2719.	2719.	3.795	.0900

Maximum Froude Number (FRDM)	1.02
Cross-Section of Maximum Froude Number (IFR)	27
Minimum Froude Number (FRM)	.05
Cross-Section of Minimum Froude Number (IFM)	28

Normalized conservation of mass as percent of maximum flow in reach = -2.80

ROUTING COMPLETED :

Number of Time Steps Used (KTIME)	1164
Maximum Number of Time Steps Allowed	1199
Total Time of Flood Routing (TT, hr)	80.0

FLOOD CREST SUMMARY :

Cross Section Location (mi)	Maximum Stage Elevation (ft MSL)	Maximum Flow (cfs)	Time To Maximum Stage (hr)	Maximum Flow Velocity (ft/sec)	Flood Elevation (ft MSL)	Time To Flood Elevation (hr)
3.210	1455.03	59995	44.030	2.82	1453.50	42.77
3.250	1453.81	59576	44.030	2.78	1452.33	42.84
3.290	1452.60	59150	44.100	2.75	1451.17	42.84
3.330	1451.41	58995	44.100	2.71	1450.00	42.91
3.370	1450.21	59020	44.100	2.68	1448.83	42.91
3.410	1449.00	58930	44.100	2.66	1447.67	42.98
3.450	1447.70	58752	44.100	2.74	1446.50	43.05
3.490	1446.32	58508	44.170	2.73	1445.06	42.98
3.530	1444.94	58487	44.170	2.73	1443.63	42.98
3.570	1443.56	58495	44.170	2.72	1442.19	42.98
3.610	1442.18	58424	44.170	2.72	1440.75	42.91
3.650	1440.79	58282	44.170	2.72	1439.31	42.91
3.690	1439.40	58084	44.240	2.71	1437.88	42.91
3.730	1438.02	58124	44.240	2.70	1436.44	42.91
3.770	1436.51	58125	44.240	2.84	1435.00	42.91
3.823	1434.36	58035	44.240	2.89	1432.80	42.98
3.876	1432.22	57852	44.310	2.93	1430.60	43.05
3.929	1430.10	57837	44.310	2.98	1428.40	43.12
3.982	1428.00	57825	44.310	3.02	1426.20	43.12
4.035	1425.90	57727	44.310	3.07	1424.00	43.12
4.088	1423.83	57546	44.380	3.11	1421.80	43.12
4.141	1421.79	57564	44.380	3.15	1419.60	43.19
4.194	1419.78	57531	44.380	3.18	1417.40	43.12
4.247	1417.80	57423	44.380	3.20	1415.20	43.19
4.300	1415.57	57261	44.450	4.03	1413.00	43.05
4.363	1413.70	57257	44.450	5.87	1409.33	43.26
4.427	1413.34	57153	44.450	5.39	1405.67	.00
4.490	1413.27	57002	44.450	.71	1402.00	.00
5.020	1394.30	57002	44.450	3.34	1392.00	43.61

WARNING: Maximum water surface elevation is greater than the highest top width elevation for the following following cross-sections.

Cross Section Number	Cross Section Location (mi)	Maximum Top Width Elevation (ft MSL)	Maximum Water Surface Elevation (ft MSL)
27	4.43	1412.67	1413.34
28	4.49	1410.00	1413.27

WARNING: The top width entries should be extended upward at the above cross-sections.

COMPUTED WATER SURFACE ELEVATIONS AT REQUESTED STATIONS WHERE HYDROGRAPHS ARE PLOTTED :

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
1	.035	1445.11	1411.67	1405.54	1385.85		
2	.053	1445.11	1411.71	1405.66	1385.85		
3	.070	1445.11	1411.77	1405.78	1385.85		
4	.079	1445.11	1411.79	1405.85	1385.85		
5	.086	1445.11	1411.81	1405.91	1385.85		
6	.093	1445.11	1411.84	1405.97	1385.85		
7	.099	1445.11	1411.85	1406.02	1385.85		
8	.104	1445.11	1411.87	1406.06	1385.85		
9	.109	1445.11	1411.89	1406.10	1385.85		
10	.124	1445.11	1411.94	1406.24	1385.85		
11	.132	1445.11	1411.96	1406.30	1385.85		
12	.140	1445.11	1411.98	1406.38	1385.85		
13	.149	1445.11	1412.01	1406.46	1385.85		
14	.156	1445.11	1412.03	1406.53	1385.85		
15	.163	1445.11	1412.04	1406.59	1385.85		
16	.169	1445.11	1412.05	1406.65	1385.85		
17	.174	1445.11	1412.07	1406.70	1385.85		
18	.179	1445.11	1412.07	1406.74	1385.85		
19	.183	1445.11	1412.08	1406.78	1385.85		
20	.186	1445.11	1412.09	1406.82	1385.85		
21	.198	1445.11	1412.10	1406.93	1385.85		
22	.210	1445.11	1412.11	1407.03	1385.85		
23	.280	1445.11	1411.76	1407.38	1385.85		
24	.350	1445.11	1411.76	1407.61	1385.85		
25	.420	1445.11	1411.76	1407.80	1385.85		
26	.490	1445.11	1411.76	1408.01	1385.85		
27	.560	1445.11	1411.76	1408.23	1385.85		
28	.630	1445.11	1411.76	1408.45	1385.85		
29	.700	1445.11	1411.76	1408.66	1386.14		
30	.770	1445.11	1411.76	1408.85	1387.00		
31	.840	1445.11	1411.76	1408.99	1387.90		
32	.910	1445.11	1411.76	1409.07	1388.62		
33	.980	1445.11	1411.76	1409.09	1389.32		
34	1.050	1445.11	1411.76	1409.00	1389.98		
35	1.120	1445.11	1411.76	1408.81	1391.24		
36	1.190	1445.11	1411.76	1408.47	1391.43		
37	1.260	1445.11	1411.76	1408.04	1391.44		
38	1.330	1445.11	1411.76	1407.57	1391.37		
39	1.400	1445.11	1411.72	1407.08	1391.30		
40	1.435	1445.11	1411.81	1406.88	1391.27		
41	1.453	1445.11	1411.86	1406.81	1391.27		
42	1.470	1445.11	1411.89	1406.74	1391.26		
43	1.505	1445.11	1411.90	1406.59	1391.23		
44	1.540	1445.11	1411.89	1406.43	1391.21		
45	1.575	1445.11	1411.85	1406.28	1391.19		
46	1.610	1445.11	1411.80	1406.12	1391.16		
47	1.680	1445.11	1411.68	1405.74	1391.10		
48	1.750	1445.11	1411.68	1405.31	1391.03		
49	1.820	1445.11	1411.68	1404.83	1390.92		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
50	1.890	1445.11	1411.68	1404.41	1390.81		
51	1.960	1445.11	1411.68	1404.18	1390.73		
52	2.030	1445.11	1411.68	1404.09	1390.71		
53	2.100	1445.11	1411.68	1404.09	1390.71		
54	2.170	1445.11	1411.68	1404.10	1390.71		
55	2.240	1445.11	1411.68	1404.12	1390.72		
56	2.310	1445.11	1411.68	1404.13	1390.73		
57	2.380	1445.11	1411.68	1404.14	1390.73		
58	2.450	1445.11	1411.68	1404.14	1390.73		
59	2.520	1445.11	1411.68	1404.14	1390.73		
60	2.590	1445.11	1411.68	1404.14	1390.73		
61	2.660	1445.11	1411.68	1404.14	1390.73		
62	2.730	1445.11	1411.68	1404.14	1390.73		
63	2.800	1445.11	1411.68	1404.14	1390.73		
64	2.870	1445.11	1411.68	1404.14	1390.73		
65	2.940	1445.11	1411.68	1404.14	1390.73		
66	3.010	1445.11	1411.68	1404.14	1390.73		
67	3.080	1445.11	1411.68	1404.14	1390.73		
68	3.150	1445.11	1411.68	1404.14	1390.73		
69	3.220	1445.11	1411.68	1404.14	1390.73		
70	3.290	1445.11	1411.68	1404.14	1390.73		
71	3.360	1445.11	1411.68	1404.14	1390.73		
72	3.430	1445.11	1411.68	1404.14	1390.73		
73	3.500	1445.11	1411.68	1404.14	1390.73		
74	3.570	1445.11	1411.68	1404.14	1390.73		
75	3.640	1445.11	1411.68	1404.14	1390.73		
76	3.710	1445.11	1411.68	1404.14	1390.73		
77	3.780	1445.11	1411.68	1404.14	1390.73		
78	3.850	1445.11	1411.68	1404.14	1390.73		
79	3.920	1445.11	1411.68	1404.14	1390.73		
80	3.990	1445.11	1411.68	1404.14	1390.73		
81	4.060	1445.11	1411.68	1404.14	1390.73		
82	4.130	1445.11	1411.68	1404.14	1390.73		
83	4.200	1445.11	1411.68	1404.14	1390.73		
84	4.270	1445.11	1411.68	1404.14	1390.73		
85	4.340	1445.11	1411.68	1404.14	1390.73		
86	4.410	1445.11	1411.68	1404.14	1390.73		
87	4.480	1445.11	1411.68	1404.14	1390.73		
88	4.550	1445.11	1411.68	1404.14	1390.73		
89	4.620	1445.11	1411.68	1404.14	1390.73		
90	4.690	1445.11	1411.68	1404.14	1390.73		
91	4.760	1445.11	1411.68	1404.14	1390.73		
92	4.830	1445.11	1411.68	1404.14	1390.73		
93	4.900	1445.11	1411.68	1404.14	1390.73		
94	4.970	1445.11	1411.68	1404.14	1390.73		
95	5.040	1445.11	1411.68	1404.14	1390.73		
96	5.110	1445.11	1411.68	1404.14	1390.73		
97	5.180	1445.11	1411.68	1404.14	1390.73		
98	5.250	1445.11	1411.68	1404.14	1390.73		
99	5.320	1445.11	1411.68	1404.14	1390.73		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
100	5.390	1445.11	1411.68	1404.14	1390.73		
101	5.460	1445.11	1411.68	1404.14	1390.73		
102	5.530	1445.11	1411.68	1404.14	1390.73		
103	5.600	1445.11	1411.68	1404.14	1390.73		
104	5.670	1445.11	1411.68	1404.14	1390.73		
105	5.740	1445.11	1411.68	1404.14	1390.73		
106	5.810	1445.11	1411.68	1404.14	1390.73		
107	5.880	1445.11	1411.68	1404.14	1390.73		
108	5.950	1445.11	1411.68	1404.14	1390.73		
109	6.020	1445.11	1411.68	1404.14	1390.73		
110	6.090	1445.11	1411.68	1404.14	1390.73		
111	6.160	1445.11	1411.68	1404.14	1390.73		
112	6.230	1445.11	1411.68	1404.14	1390.73		
113	6.300	1445.11	1411.68	1404.14	1390.73		
114	6.370	1445.11	1411.68	1404.14	1390.73		
115	6.440	1445.11	1411.68	1404.14	1390.73		
116	6.510	1445.11	1411.68	1404.14	1390.73		
117	6.580	1445.11	1411.68	1404.14	1390.73		
118	6.650	1445.11	1411.68	1404.14	1390.73		
119	6.720	1445.11	1411.68	1404.14	1390.73		
120	6.790	1445.11	1411.68	1404.14	1390.73		
121	6.860	1445.11	1411.68	1404.14	1390.73		
122	6.930	1445.11	1411.68	1404.14	1390.73		
123	7.000	1445.11	1411.68	1404.14	1390.73		
124	7.070	1445.11	1411.68	1404.14	1390.73		
125	7.140	1445.11	1411.68	1404.14	1390.73		
126	7.210	1445.11	1411.68	1404.14	1390.73		
127	7.280	1445.11	1411.68	1404.14	1390.73		
128	7.350	1445.11	1411.68	1404.14	1390.73		
129	7.420	1445.11	1411.68	1404.14	1390.73		
130	7.490	1445.11	1411.68	1404.14	1390.73		
131	7.560	1445.11	1411.68	1404.14	1390.73		
132	7.630	1445.11	1411.68	1404.14	1390.73		
133	7.700	1445.11	1411.68	1404.14	1390.73		
134	7.770	1445.11	1411.68	1404.14	1390.73		
135	7.840	1445.11	1411.68	1404.14	1390.73		
136	7.910	1445.11	1411.68	1404.14	1390.73		
137	7.980	1445.11	1411.68	1404.14	1390.73		
138	8.050	1445.11	1411.68	1404.14	1390.73		
139	8.120	1445.11	1411.68	1404.14	1390.73		
140	8.190	1445.11	1411.68	1404.14	1390.73		
141	8.260	1445.11	1411.68	1404.14	1390.73		
142	8.330	1445.11	1411.68	1404.14	1390.73		
143	8.400	1445.11	1411.68	1404.14	1390.73		
144	8.470	1445.11	1411.68	1404.14	1390.73		
145	8.540	1445.11	1411.68	1404.14	1390.73		
146	8.610	1445.11	1411.68	1404.14	1390.73		
147	8.680	1445.11	1411.68	1404.14	1390.73		
148	8.750	1445.11	1411.68	1404.14	1390.73		
149	8.820	1445.11	1411.68	1404.14	1390.73		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
150	8.890	1445.11	1411.68	1404.14	1390.73		
151	8.960	1445.11	1411.68	1404.14	1390.73		
152	9.030	1445.11	1411.68	1404.14	1390.73		
153	9.100	1445.11	1411.68	1404.14	1390.73		
154	9.170	1445.11	1411.68	1404.14	1390.73		
155	9.240	1445.11	1411.68	1404.14	1390.73		
156	9.310	1445.11	1411.68	1404.14	1390.73		
157	9.380	1445.11	1411.68	1404.14	1390.73		
158	9.450	1445.11	1411.68	1404.14	1390.73		
159	9.520	1445.11	1411.68	1404.14	1390.73		
160	9.590	1445.11	1411.68	1404.14	1390.73		
161	9.660	1445.11	1411.68	1404.14	1390.73		
162	9.730	1445.11	1411.68	1404.14	1390.73		
163	9.800	1445.11	1411.68	1404.14	1390.73		
164	9.870	1445.11	1411.68	1404.14	1390.73		
165	9.940	1445.11	1411.68	1404.14	1390.73		
166	10.010	1445.11	1411.68	1404.14	1390.73		
167	10.080	1445.11	1411.68	1404.14	1390.73		
168	10.150	1445.11	1411.68	1404.14	1390.73		
169	10.220	1445.11	1411.68	1404.14	1390.73		
170	10.290	1445.11	1411.68	1404.14	1390.73		
171	10.360	1445.11	1411.68	1404.14	1390.73		
172	10.430	1445.11	1411.68	1404.14	1390.73		
173	10.500	1445.11	1411.68	1404.14	1390.73		
174	10.570	1445.11	1411.68	1404.14	1390.73		
175	10.640	1445.11	1411.68	1404.14	1390.73		
176	10.710	1445.11	1411.68	1404.14	1390.73		
177	10.780	1445.11	1411.68	1404.14	1390.73		
178	10.850	1445.11	1411.68	1404.14	1390.73		
179	10.920	1445.11	1411.68	1404.14	1390.73		
180	10.990	1445.11	1411.68	1404.14	1390.73		
181	11.060	1445.11	1411.68	1404.14	1390.73		
182	11.130	1445.11	1411.68	1404.14	1390.73		
183	11.200	1445.11	1411.68	1404.14	1390.73		
184	11.270	1445.11	1411.68	1404.14	1390.73		
185	11.340	1445.11	1411.68	1404.14	1390.73		
186	11.410	1445.11	1411.68	1404.14	1390.73		
187	11.480	1445.11	1411.68	1404.14	1390.73		
188	11.550	1445.11	1411.68	1404.14	1390.73		
189	11.620	1445.11	1411.68	1404.14	1390.73		
190	11.690	1445.11	1411.68	1404.14	1390.73		
191	11.760	1445.11	1411.68	1404.14	1390.73		
192	11.830	1445.11	1411.68	1404.14	1390.73		
193	11.900	1445.11	1411.68	1404.14	1390.73		
194	11.970	1445.11	1411.68	1404.14	1390.73		
195	12.040	1445.11	1411.68	1404.14	1390.73		
196	12.110	1445.11	1411.68	1404.14	1390.73		
197	12.180	1445.11	1411.68	1404.14	1390.73		
198	12.250	1445.11	1411.68	1404.14	1390.73		
199	12.320	1445.11	1411.68	1404.14	1390.73		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
200	12.390	1445.11	1411.68	1404.14	1390.73		
201	12.460	1445.11	1411.68	1404.14	1390.73		
202	12.530	1445.11	1411.68	1404.14	1390.73		
203	12.600	1445.11	1411.68	1404.14	1390.73		
204	12.670	1445.11	1411.68	1404.14	1390.73		
205	12.740	1445.11	1411.68	1404.14	1390.73		
206	12.810	1445.11	1411.68	1404.14	1390.73		
207	12.880	1445.11	1411.68	1404.14	1390.73		
208	12.950	1445.11	1411.68	1404.14	1390.73		
209	13.020	1445.11	1411.68	1404.14	1390.73		
210	13.090	1445.11	1411.68	1404.14	1390.73		
211	13.160	1445.11	1411.68	1404.14	1390.73		
212	13.230	1445.11	1411.68	1404.14	1390.73		
213	13.300	1445.11	1411.68	1404.14	1390.73		
214	13.370	1445.11	1411.68	1404.14	1390.73		
215	13.440	1445.11	1411.68	1404.14	1390.73		
216	13.510	1445.11	1411.68	1404.14	1390.73		
217	13.580	1445.11	1411.68	1404.14	1390.73		
218	13.650	1445.11	1411.68	1404.14	1390.73		
219	13.720	1445.11	1411.68	1404.14	1390.73		
220	13.790	1445.11	1411.68	1404.14	1390.73		
221	13.860	1445.11	1411.68	1404.14	1390.73		
222	13.930	1445.11	1411.68	1404.14	1390.73		
223	14.000	1445.11	1411.68	1404.14	1390.73		
224	14.070	1445.11	1411.68	1404.14	1390.73		
225	14.140	1445.11	1411.68	1404.14	1390.73		
226	14.210	1445.11	1411.68	1404.14	1390.73		
227	14.280	1445.11	1411.68	1404.14	1390.73		
228	14.350	1445.11	1411.68	1404.14	1390.73		
229	14.420	1445.11	1411.68	1404.14	1390.73		
230	14.490	1445.11	1411.68	1404.14	1390.73		
231	14.560	1445.11	1411.68	1404.14	1390.73		
232	14.630	1445.11	1411.68	1404.14	1390.73		
233	14.700	1445.11	1411.68	1404.14	1390.73		
234	14.770	1445.11	1411.68	1404.14	1390.73		
235	14.840	1445.11	1411.68	1404.14	1390.73		
236	14.910	1445.11	1411.68	1404.14	1390.73		
237	14.980	1445.11	1411.68	1404.14	1390.73		
238	15.050	1445.11	1411.68	1404.14	1390.73		
239	15.120	1445.11	1411.68	1404.14	1390.73		
240	15.190	1445.11	1411.68	1404.14	1390.73		
241	15.260	1445.11	1411.68	1404.14	1390.73		
242	15.330	1445.11	1411.68	1404.14	1390.73		
243	15.400	1445.11	1411.68	1404.14	1390.73		
244	15.470	1445.11	1411.68	1404.14	1390.73		
245	15.540	1445.11	1411.68	1404.14	1390.73		
246	15.610	1445.11	1411.68	1404.14	1390.73		
247	15.680	1445.11	1411.68	1404.14	1390.73		
248	15.750	1445.11	1411.68	1404.14	1390.73		
249	15.820	1445.11	1411.68	1404.14	1390.73		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
250	15.890	1445.11	1411.68	1404.14	1390.73		
251	15.960	1445.11	1411.68	1404.14	1390.73		
252	16.030	1445.11	1411.68	1404.14	1390.73		
253	16.100	1445.11	1411.68	1404.14	1390.73		
254	16.170	1445.11	1411.68	1404.14	1390.73		
255	16.240	1445.11	1411.68	1404.14	1390.73		
256	16.310	1445.11	1411.68	1404.14	1390.73		
257	16.380	1445.11	1411.68	1404.14	1390.73		
258	16.450	1445.11	1411.68	1404.14	1390.73		
259	16.520	1445.11	1411.68	1404.14	1390.73		
260	16.590	1445.11	1411.68	1404.14	1390.73		
261	16.660	1445.11	1411.68	1404.14	1390.73		
262	16.730	1445.11	1411.68	1404.14	1390.73		
263	16.800	1445.11	1411.68	1404.14	1390.73		
264	16.870	1445.11	1411.68	1404.14	1390.73		
265	16.940	1445.11	1411.68	1404.14	1390.73		
266	17.010	1445.11	1411.68	1404.14	1390.73		
267	17.080	1445.11	1411.68	1404.14	1390.73		
268	17.150	1445.11	1411.68	1404.14	1390.73		
269	17.220	1445.11	1411.68	1404.14	1390.73		
270	17.290	1445.11	1411.68	1404.14	1390.73		
271	17.360	1445.11	1411.68	1404.14	1390.73		
272	17.430	1445.11	1411.68	1404.14	1390.73		
273	17.500	1445.11	1411.68	1404.14	1390.73		
274	17.570	1445.11	1411.68	1404.14	1390.73		
275	17.640	1445.11	1411.68	1404.14	1390.73		
276	17.710	1445.11	1411.68	1404.14	1390.73		
277	17.780	1445.11	1411.68	1404.14	1390.73		
278	17.850	1445.11	1411.68	1404.14	1390.73		
279	17.920	1445.11	1411.68	1404.14	1390.73		
280	17.990	1445.11	1411.68	1404.14	1390.73		
281	18.060	1445.11	1411.68	1404.14	1390.73		
282	18.130	1445.11	1411.68	1404.14	1390.73		
283	18.200	1445.11	1411.68	1404.14	1390.73		
284	18.270	1445.11	1411.68	1404.14	1390.73		
285	18.340	1445.11	1411.68	1404.14	1390.73		
286	18.410	1445.11	1411.68	1404.14	1390.73		
287	18.480	1445.11	1411.68	1404.14	1390.73		
288	18.550	1445.11	1411.68	1404.14	1390.73		
289	18.620	1445.11	1411.68	1404.14	1390.73		
290	18.690	1445.11	1411.68	1404.14	1390.73		
291	18.760	1445.11	1411.68	1404.14	1390.73		
292	18.830	1445.11	1411.68	1404.14	1390.73		
293	18.900	1445.11	1411.68	1404.14	1390.73		
294	18.970	1445.11	1411.68	1404.14	1390.73		
295	19.040	1445.11	1411.68	1404.14	1390.73		
296	19.110	1445.11	1411.68	1404.14	1390.73		
297	19.180	1445.11	1411.68	1404.14	1390.73		
298	19.250	1445.11	1411.68	1404.14	1390.73		
299	19.320	1445.11	1411.68	1404.14	1390.73		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
300	19.390	1445.11	1411.68	1404.14	1390.73		
301	19.460	1445.11	1411.68	1404.14	1390.73		
302	19.530	1445.11	1411.68	1404.14	1390.73		
303	19.600	1445.11	1411.68	1404.14	1390.73		
304	19.670	1445.11	1411.68	1404.14	1390.73		
305	19.740	1445.11	1411.68	1404.14	1390.73		
306	19.810	1445.11	1411.68	1404.14	1390.73		
307	19.880	1445.11	1411.68	1404.14	1390.73		
308	19.950	1445.11	1411.68	1404.14	1390.73		
309	20.020	1445.11	1411.68	1404.14	1390.73		
310	20.090	1445.11	1411.68	1404.14	1390.73		
311	20.160	1445.11	1411.68	1404.14	1390.73		
312	20.230	1445.11	1411.68	1404.14	1390.73		
313	20.300	1445.11	1411.68	1404.14	1390.73		
314	20.370	1445.11	1411.68	1404.14	1390.73		
315	20.440	1445.11	1411.68	1404.14	1390.73		
316	20.510	1445.11	1411.68	1404.14	1390.73		
317	20.580	1445.11	1411.68	1404.14	1390.73		
318	20.650	1445.11	1411.68	1404.14	1390.73		
319	20.720	1445.11	1411.68	1404.14	1390.73		
320	20.790	1445.11	1411.68	1404.14	1390.73		
321	20.860	1445.11	1411.68	1404.14	1390.73		
322	20.930	1445.11	1411.68	1404.14	1390.73		
323	21.000	1445.11	1411.68	1404.14	1390.73		
324	21.070	1445.11	1411.68	1404.14	1390.73		
325	21.140	1445.11	1411.68	1404.14	1390.73		
326	21.210	1445.11	1411.68	1404.14	1390.73		
327	21.280	1445.11	1411.68	1404.14	1390.73		
328	21.350	1445.11	1411.68	1404.14	1390.73		
329	21.420	1445.11	1411.68	1404.14	1390.73		
330	21.490	1445.11	1411.68	1404.14	1390.73		
331	21.560	1445.11	1411.68	1404.14	1390.73		
332	21.630	1445.11	1411.68	1404.14	1390.73		
333	21.700	1445.11	1411.68	1404.14	1390.73		
334	21.770	1445.11	1411.68	1404.14	1390.73		
335	21.840	1445.11	1411.68	1404.14	1390.73		
336	21.910	1445.11	1411.68	1404.14	1390.73		
337	21.980	1445.11	1411.68	1404.14	1390.73		
338	22.050	1445.11	1411.68	1404.14	1390.73		
339	22.120	1445.11	1411.68	1404.14	1390.73		
340	22.190	1445.11	1411.68	1404.14	1390.73		
341	22.260	1445.11	1411.68	1404.14	1390.73		
342	22.330	1445.11	1411.68	1404.14	1390.73		
343	22.400	1445.11	1411.68	1404.14	1390.73		
344	22.470	1445.11	1411.68	1404.14	1390.73		
345	22.540	1445.11	1411.68	1404.14	1390.73		
346	22.610	1445.11	1411.68	1404.14	1390.73		
347	22.680	1445.11	1411.68	1404.14	1390.73		
348	22.750	1445.11	1411.68	1404.14	1390.73		
349	22.820	1445.11	1411.68	1404.14	1390.73		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
350	22.890	1445.11	1411.68	1404.14	1390.73		
351	22.960	1445.11	1411.68	1404.14	1390.73		
352	23.030	1445.11	1411.68	1404.14	1390.73		
353	23.100	1445.11	1411.68	1404.14	1390.73		
354	23.170	1445.11	1411.68	1404.14	1390.73		
355	23.240	1445.11	1411.68	1404.14	1390.73		
356	23.310	1445.11	1411.68	1404.14	1390.73		
357	23.380	1445.11	1411.68	1404.14	1390.73		
358	23.450	1445.11	1411.68	1404.14	1390.73		
359	23.520	1445.11	1411.68	1404.14	1390.73		
360	23.590	1445.11	1411.68	1404.14	1390.73		
361	23.660	1445.11	1411.68	1404.14	1390.73		
362	23.730	1445.11	1411.68	1404.14	1390.73		
363	23.800	1445.11	1411.68	1404.14	1390.73		
364	23.870	1445.11	1411.68	1404.14	1390.73		
365	23.940	1445.11	1411.68	1404.14	1390.73		
366	24.010	1445.11	1411.68	1404.14	1390.73		
367	24.080	1445.11	1411.68	1404.14	1390.73		
368	24.150	1445.11	1411.68	1404.14	1390.73		
369	24.220	1445.11	1411.68	1404.14	1390.73		
370	24.290	1445.11	1411.68	1404.14	1390.73		
371	24.360	1445.11	1411.68	1404.14	1390.73		
372	24.430	1445.11	1411.68	1404.14	1390.73		
373	24.500	1445.11	1411.68	1404.14	1390.73		
374	24.570	1445.11	1411.68	1404.14	1390.73		
375	24.640	1445.11	1411.68	1404.14	1390.73		
376	24.710	1445.11	1411.68	1404.14	1390.73		
377	24.780	1445.11	1411.68	1404.14	1390.73		
378	24.850	1445.11	1411.68	1404.14	1390.73		
379	24.920	1445.11	1411.68	1404.14	1390.73		
380	24.990	1445.11	1411.68	1404.14	1390.73		
381	25.060	1445.11	1411.68	1404.14	1390.73		
382	25.130	1445.11	1411.68	1404.14	1390.73		
383	25.200	1445.11	1411.68	1404.14	1390.73		
384	25.270	1445.11	1411.68	1404.14	1390.73		
385	25.340	1445.11	1411.68	1404.14	1390.73		
386	25.410	1445.11	1411.68	1404.14	1390.73		
387	25.480	1445.11	1411.68	1404.14	1390.73		
388	25.550	1445.11	1411.68	1404.14	1390.73		
389	25.620	1445.11	1411.68	1404.14	1390.73		
390	25.690	1445.11	1411.68	1404.14	1390.73		
391	25.760	1445.11	1411.68	1404.14	1390.73		
392	25.830	1445.11	1411.68	1404.14	1390.73		
393	25.900	1445.11	1411.68	1404.14	1390.73		
394	25.970	1445.11	1411.68	1404.14	1390.73		
395	26.040	1445.11	1411.68	1404.14	1390.73		
396	26.110	1445.11	1411.68	1404.14	1390.73		
397	26.180	1445.11	1411.68	1404.14	1390.73		
398	26.250	1445.11	1411.68	1404.14	1390.73		
399	26.320	1445.11	1411.68	1404.14	1390.73		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
400	26.390	1445.11	1411.68	1404.14	1390.73		
401	26.460	1445.11	1411.68	1404.14	1390.73		
402	26.530	1445.11	1411.68	1404.14	1390.73		
403	26.600	1445.11	1411.68	1404.14	1390.73		
404	26.670	1445.11	1411.68	1404.14	1390.73		
405	26.740	1445.11	1411.68	1404.14	1390.73		
406	26.810	1445.11	1411.68	1404.14	1390.73		
407	26.880	1445.11	1411.68	1404.14	1390.73		
408	26.950	1445.11	1411.68	1404.14	1390.73		
409	27.020	1445.11	1411.68	1404.14	1390.73		
410	27.090	1445.11	1411.68	1404.14	1390.73		
411	27.160	1445.11	1411.68	1404.14	1390.73		
412	27.230	1445.11	1411.68	1404.14	1390.73		
413	27.300	1445.11	1411.68	1404.14	1390.73		
414	27.370	1445.11	1411.68	1404.14	1390.73		
415	27.440	1445.11	1411.68	1404.14	1390.73		
416	27.510	1445.11	1411.68	1404.14	1390.73		
417	27.580	1445.11	1411.68	1404.14	1390.73		
418	27.650	1445.11	1411.68	1404.14	1390.73		
419	27.720	1445.11	1411.68	1404.14	1390.73		
420	27.790	1445.11	1411.68	1404.14	1390.73		
421	27.860	1445.11	1411.68	1404.14	1390.73		
422	27.930	1445.11	1411.68	1404.14	1390.73		
423	28.000	1445.11	1411.68	1404.14	1390.73		
424	28.070	1445.11	1411.68	1404.14	1390.73		
425	28.140	1445.11	1411.68	1404.14	1390.73		
426	28.210	1445.11	1411.68	1404.14	1390.73		
427	28.280	1445.11	1411.68	1404.14	1390.73		
428	28.350	1445.11	1411.68	1404.14	1390.73		
429	28.420	1445.11	1411.68	1404.14	1390.73		
430	28.490	1445.11	1411.68	1404.14	1390.73		
431	28.560	1445.11	1411.68	1404.14	1390.73		
432	28.630	1445.11	1411.68	1404.14	1390.73		
433	28.700	1445.11	1411.68	1404.14	1390.73		
434	28.770	1445.11	1411.68	1404.14	1390.73		
435	28.840	1445.11	1411.68	1404.14	1390.73		
436	28.910	1445.11	1411.68	1404.14	1390.73		
437	28.980	1445.11	1411.68	1404.14	1390.73		
438	29.050	1445.11	1411.68	1404.14	1390.73		
439	29.120	1445.11	1411.68	1404.14	1390.73		
440	29.190	1445.11	1411.68	1404.14	1390.73		
441	29.260	1445.11	1411.68	1404.14	1390.73		
442	29.330	1445.11	1411.68	1404.14	1390.73		
443	29.400	1445.11	1411.68	1404.14	1390.73		
444	29.470	1445.11	1411.68	1404.14	1390.73		
445	29.540	1445.11	1411.68	1404.14	1390.73		
446	29.610	1445.11	1411.68	1404.14	1390.73		
447	29.680	1445.11	1411.68	1404.14	1390.73		
448	29.750	1445.11	1411.68	1404.14	1390.73		
449	29.820	1445.11	1411.68	1404.14	1390.73		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
450	29.890	1445.11	1411.68	1404.14	1390.73		
451	29.960	1445.11	1411.68	1404.14	1390.73		
452	30.030	1445.11	1411.68	1404.14	1390.73		
453	30.100	1445.11	1411.68	1404.14	1390.73		
454	30.170	1445.11	1411.68	1404.14	1390.73		
455	30.240	1445.11	1411.68	1404.14	1390.73		
456	30.310	1445.11	1411.68	1404.14	1390.73		
457	30.380	1445.11	1411.68	1404.14	1390.73		
458	30.450	1445.11	1411.68	1404.14	1390.73		
459	30.520	1445.11	1411.68	1404.14	1390.73		
460	30.590	1445.11	1411.68	1404.14	1390.73		
461	30.660	1445.11	1411.68	1404.14	1390.73		
462	30.730	1445.11	1411.68	1404.14	1390.73		
463	30.800	1445.11	1411.68	1404.14	1390.73		
464	30.870	1445.11	1411.68	1404.14	1390.73		
465	30.940	1445.11	1411.68	1404.14	1390.73		
466	31.010	1445.11	1411.68	1404.14	1390.73		
467	31.080	1445.11	1411.68	1404.14	1390.73		
468	31.150	1445.11	1411.68	1404.14	1390.73		
469	31.220	1445.11	1411.68	1404.14	1390.73		
470	31.290	1445.11	1411.68	1404.14	1390.73		
471	31.360	1445.11	1411.68	1404.14	1390.73		
472	31.430	1445.11	1411.68	1404.14	1390.73		
473	31.500	1445.11	1411.68	1404.14	1390.73		
474	31.570	1445.11	1411.68	1404.14	1390.73		
475	31.640	1445.11	1411.68	1404.14	1390.73		
476	31.710	1445.11	1411.68	1404.14	1390.73		
477	31.780	1445.11	1411.68	1404.14	1390.73		
478	31.850	1445.11	1411.68	1404.14	1390.73		
479	31.920	1445.11	1411.68	1404.14	1390.73		
480	31.990	1445.11	1411.68	1404.14	1390.73		
481	32.060	1445.11	1411.68	1404.14	1390.73		
482	32.130	1445.11	1411.68	1404.14	1390.73		
483	32.200	1445.11	1411.68	1404.14	1390.73		
484	32.270	1445.11	1411.68	1404.14	1390.73		
485	32.340	1445.11	1411.68	1404.14	1390.73		
486	32.410	1445.11	1411.68	1404.14	1390.73		
487	32.480	1445.11	1411.68	1404.14	1390.73		
488	32.550	1445.11	1411.68	1404.14	1390.73		
489	32.620	1445.11	1411.68	1404.14	1390.73		
490	32.690	1445.11	1411.68	1404.14	1390.73		
491	32.760	1445.11	1411.68	1404.14	1390.73		
492	32.830	1445.11	1411.68	1404.14	1390.73		
493	32.900	1445.11	1411.68	1404.14	1390.73		
494	32.970	1445.11	1411.68	1404.14	1390.73		
495	33.040	1445.11	1411.68	1404.14	1390.73		
496	33.110	1445.11	1411.68	1404.14	1390.73		
497	33.180	1445.11	1411.68	1404.14	1390.73		
498	33.250	1445.11	1411.68	1404.14	1390.73		
499	33.320	1445.11	1411.68	1404.14	1390.73		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
500	33.390	1445.11	1411.68	1404.14	1390.73		
501	33.460	1445.11	1411.68	1404.14	1390.73		
502	33.530	1445.11	1411.68	1404.14	1390.73		
503	33.600	1445.11	1411.68	1404.14	1390.73		
504	33.670	1445.11	1411.68	1404.14	1390.73		
505	33.740	1445.11	1411.68	1404.14	1390.73		
506	33.810	1445.11	1411.68	1404.14	1390.73		
507	33.880	1445.11	1411.68	1404.14	1390.73		
508	33.950	1445.11	1411.68	1404.14	1390.73		
509	34.020	1445.11	1411.68	1404.14	1390.73		
510	34.090	1445.11	1411.68	1404.14	1390.73		
511	34.160	1445.11	1411.68	1404.14	1390.73		
512	34.230	1445.11	1411.68	1404.14	1390.73		
513	34.300	1445.11	1411.68	1404.14	1390.73		
514	34.370	1445.11	1411.68	1404.14	1390.73		
515	34.440	1445.11	1411.68	1404.14	1390.73		
516	34.510	1445.11	1411.68	1404.14	1390.73		
517	34.580	1445.11	1411.68	1404.14	1390.73		
518	34.650	1445.11	1411.68	1404.14	1390.73		
519	34.720	1445.11	1411.68	1404.14	1390.73		
520	34.790	1445.11	1411.68	1404.14	1390.73		
521	34.860	1445.11	1411.68	1404.14	1390.73		
522	34.930	1445.11	1411.68	1404.14	1390.73		
523	35.000	1445.11	1411.68	1404.14	1390.73		
524	35.070	1445.11	1411.68	1404.14	1390.73		
525	35.140	1445.11	1411.68	1404.14	1390.73		
526	35.210	1445.11	1411.68	1404.14	1390.73		
527	35.280	1445.11	1411.68	1404.14	1390.73		
528	35.350	1445.11	1411.68	1404.14	1390.73		
529	35.420	1445.11	1411.68	1404.14	1390.73		
530	35.490	1445.11	1411.68	1404.14	1390.73		
531	35.560	1445.11	1411.68	1404.14	1390.73		
532	35.630	1445.11	1411.68	1404.14	1390.73		
533	35.700	1445.11	1411.68	1404.14	1390.73		
534	35.770	1445.11	1411.68	1404.14	1390.73		
535	35.840	1445.11	1411.68	1404.14	1390.73		
536	35.910	1445.11	1411.68	1404.14	1390.73		
537	35.980	1445.11	1411.68	1404.14	1390.73		
538	36.050	1445.11	1411.68	1404.14	1390.73		
539	36.120	1445.11	1411.68	1404.14	1390.73		
540	36.190	1445.11	1411.68	1404.14	1390.73		
541	36.260	1445.11	1411.68	1404.14	1390.73		
542	36.330	1445.11	1411.68	1404.14	1390.73		
543	36.400	1445.11	1411.68	1404.14	1390.73		
544	36.470	1445.11	1411.68	1404.14	1390.73		
545	36.540	1445.11	1411.68	1404.14	1390.73		
546	36.610	1445.11	1411.68	1404.14	1390.73		
547	36.680	1445.11	1411.68	1404.14	1390.73		
548	36.750	1445.11	1411.68	1404.14	1390.73		
549	36.820	1445.11	1411.68	1404.14	1390.73		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
550	36.890	1445.11	1411.68	1404.14	1390.73		
551	36.960	1445.11	1411.68	1404.14	1390.73		
552	37.030	1445.11	1411.68	1404.14	1390.73		
553	37.100	1445.11	1411.68	1404.14	1390.73		
554	37.170	1445.11	1411.68	1404.14	1390.73		
555	37.240	1445.11	1411.68	1404.14	1390.73		
556	37.310	1445.11	1411.68	1404.14	1390.73		
557	37.380	1445.11	1411.68	1404.14	1390.73		
558	37.450	1445.11	1411.68	1404.14	1390.73		
559	37.520	1445.11	1411.68	1404.14	1390.73		
560	37.590	1445.11	1411.68	1404.14	1390.73		
561	37.660	1445.11	1411.68	1404.14	1390.73		
562	37.730	1445.11	1411.68	1404.14	1390.73		
563	37.800	1445.11	1411.68	1404.14	1390.73		
564	37.870	1445.11	1411.68	1404.14	1390.73		
565	37.940	1445.11	1411.68	1404.14	1390.73		
566	38.010	1445.11	1411.68	1404.14	1390.73		
567	38.080	1445.11	1411.68	1404.14	1390.73		
568	38.150	1445.11	1411.68	1404.14	1390.73		
569	38.220	1445.11	1411.68	1404.14	1390.73		
570	38.290	1445.11	1411.68	1404.14	1390.73		
571	38.360	1445.11	1411.68	1404.14	1390.73		
572	38.430	1445.11	1411.68	1404.14	1390.73		
573	38.500	1445.11	1411.68	1404.14	1390.73		
574	38.570	1445.11	1411.68	1404.14	1390.73		
575	38.640	1445.11	1411.68	1404.14	1390.73		
576	38.710	1445.11	1411.68	1404.14	1390.73		
577	38.780	1445.11	1411.68	1404.14	1390.73		
578	38.850	1445.11	1411.68	1404.14	1390.73		
579	38.920	1445.11	1411.68	1404.14	1390.73		
580	38.990	1445.11	1411.68	1404.14	1390.73		
581	39.060	1445.11	1411.68	1404.14	1390.73		
582	39.130	1445.11	1411.68	1404.14	1390.73		
583	39.200	1445.11	1411.68	1404.14	1390.73		
584	39.270	1445.11	1411.68	1404.14	1390.73		
585	39.340	1445.11	1411.68	1404.14	1390.73		
586	39.410	1445.11	1411.68	1404.14	1390.73		
587	39.480	1445.11	1411.68	1404.14	1390.73		
588	39.550	1445.11	1411.68	1404.14	1390.73		
589	39.620	1445.11	1411.68	1404.14	1390.73		
590	39.690	1445.11	1411.68	1404.14	1390.73		
591	39.760	1445.11	1411.68	1404.14	1390.73		
592	39.830	1445.11	1411.68	1404.14	1390.73		
593	39.900	1445.11	1411.68	1404.14	1390.73		
594	39.970	1445.11	1411.68	1404.14	1390.73		
595	40.040	1445.11	1411.68	1404.14	1390.73		
596	40.110	1445.11	1411.68	1404.14	1390.73		
597	40.180	1445.12	1411.68	1404.14	1390.73		
598	40.250	1445.13	1411.68	1404.14	1390.73		
599	40.320	1445.14	1411.68	1404.14	1390.73		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
600	40.390	1445.15	1411.68	1404.14	1390.73		
601	40.460	1445.16	1411.68	1404.14	1390.73		
602	40.530	1445.17	1411.68	1404.14	1390.73		
603	40.600	1445.18	1411.68	1404.14	1390.73		
604	40.670	1445.19	1411.68	1404.14	1390.73		
605	40.740	1445.20	1411.68	1404.14	1390.73		
606	40.810	1445.21	1411.68	1404.15	1390.73		
607	40.880	1445.22	1411.68	1404.15	1390.73		
608	40.950	1445.23	1411.68	1404.15	1390.73		
609	41.020	1445.24	1411.68	1404.15	1390.73		
610	41.090	1445.25	1411.68	1404.16	1390.74		
611	41.160	1445.26	1411.68	1404.17	1390.74		
612	41.230	1445.27	1411.68	1404.18	1390.74		
613	41.300	1445.28	1411.68	1404.19	1390.75		
614	41.370	1445.29	1411.68	1404.21	1390.75		
615	41.440	1445.30	1411.68	1404.22	1390.76		
616	41.510	1445.31	1411.68	1404.24	1390.77		
617	41.580	1445.31	1411.68	1404.26	1390.77		
618	41.650	1445.32	1411.68	1404.29	1390.78		
619	41.720	1445.33	1411.68	1404.32	1390.79		
620	41.790	1445.34	1411.68	1404.35	1390.80		
621	41.860	1445.35	1411.68	1404.38	1390.81		
622	41.930	1445.36	1411.68	1404.42	1390.82		
623	42.000	1445.36	1411.68	1404.45	1390.83		
624	42.070	1445.37	1411.68	1404.48	1390.84		
625	42.140	1445.40	1411.68	1404.51	1390.85		
626	42.210	1445.45	1411.68	1404.54	1390.86		
627	42.280	1445.53	1411.68	1404.57	1390.87		
628	42.350	1445.63	1411.68	1404.60	1390.88		
629	42.420	1445.72	1411.71	1404.63	1390.89		
630	42.490	1445.79	1411.75	1404.67	1390.90		
631	42.560	1445.87	1411.81	1404.73	1390.92		
632	42.630	1445.95	1411.89	1404.82	1390.94		
633	42.700	1446.03	1412.03	1404.96	1390.98		
634	42.770	1446.14	1412.24	1405.19	1391.03		
635	42.840	1446.25	1412.47	1405.55	1391.09		
636	42.910	1446.36	1412.71	1406.00	1391.16		
637	42.980	1446.46	1412.94	1406.52	1391.24		
638	43.050	1446.56	1413.16	1407.05	1391.32		
639	43.120	1446.66	1413.39	1407.58	1391.40		
640	43.190	1446.76	1413.61	1408.15	1391.48		
641	43.260	1446.86	1413.80	1408.78	1391.57		
642	43.330	1446.96	1413.91	1409.46	1391.66		
643	43.400	1447.05	1413.92	1410.16	1391.76		
644	43.470	1447.12	1413.88	1410.84	1391.85		
645	43.540	1447.20	1413.86	1411.51	1391.93		
646	43.610	1447.27	1413.90	1412.12	1392.09		
647	43.680	1447.34	1414.07	1412.49	1392.69		
648	43.750	1447.40	1414.30	1412.67	1393.05		
649	43.820	1447.47	1414.50	1412.77	1393.26		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
650	43.890	1447.53	1414.68	1412.85	1393.42		
651	43.960	1447.60	1414.86	1412.92	1393.56		
652	44.030	1447.66	1415.05	1412.99	1393.71		
653	44.100	1447.70	1415.21	1413.06	1393.85		
654	44.170	1447.69	1415.33	1413.12	1393.97		
655	44.240	1447.64	1415.43	1413.17	1394.08		
656	44.310	1447.58	1415.51	1413.21	1394.18		
657	44.380	1447.51	1415.56	1413.25	1394.26		
658	44.450	1447.45	1415.57	1413.27	1394.30		
659	44.520	1447.38	1415.53	1413.26	1394.29		
660	44.590	1447.32	1415.46	1413.24	1394.25		
661	44.660	1447.25	1415.38	1413.21	1394.18		
662	44.730	1447.18	1415.29	1413.17	1394.09		
663	44.800	1447.11	1415.19	1413.13	1394.00		
664	44.870	1447.03	1415.08	1413.08	1393.91		
665	44.940	1446.95	1414.97	1413.04	1393.82		
666	45.010	1446.87	1414.86	1413.00	1393.73		
667	45.080	1446.79	1414.76	1412.96	1393.65		
668	45.150	1446.73	1414.64	1412.92	1393.57		
669	45.220	1446.69	1414.52	1412.88	1393.48		
670	45.290	1446.65	1414.40	1412.83	1393.38		
671	45.360	1446.62	1414.27	1412.79	1393.29		
672	45.430	1446.59	1414.15	1412.74	1393.19		
673	45.500	1446.56	1414.04	1412.70	1393.10		
674	45.570	1446.52	1413.94	1412.66	1393.02		
675	45.640	1446.49	1413.85	1412.62	1392.95		
676	45.710	1446.46	1413.79	1412.59	1392.88		
677	45.780	1446.42	1413.74	1412.56	1392.83		
678	45.850	1446.39	1413.69	1412.53	1392.78		
679	45.920	1446.36	1413.64	1412.51	1392.73		
680	45.990	1446.32	1413.59	1412.49	1392.68		
681	46.060	1446.29	1413.54	1412.46	1392.64		
682	46.130	1446.25	1413.49	1412.44	1392.60		
683	46.200	1446.22	1413.44	1412.42	1392.55		
684	46.270	1446.18	1413.39	1412.39	1392.51		
685	46.340	1446.15	1413.34	1412.37	1392.47		
686	46.410	1446.11	1413.29	1412.34	1392.42		
687	46.480	1446.08	1413.24	1412.32	1392.38		
688	46.550	1446.04	1413.19	1412.29	1392.33		
689	46.620	1446.00	1413.13	1412.27	1392.29		
690	46.690	1445.97	1413.08	1412.24	1392.25		
691	46.760	1445.93	1413.03	1412.21	1392.20		
692	46.830	1445.89	1412.97	1412.18	1392.16		
693	46.900	1445.85	1412.91	1412.15	1392.11		
694	46.970	1445.82	1412.86	1412.11	1392.07		
695	47.040	1445.78	1412.80	1412.08	1392.03		
696	47.110	1445.75	1412.74	1412.04	1392.00		
697	47.180	1445.72	1412.67	1411.98	1391.97		
698	47.250	1445.71	1412.61	1411.92	1391.96		
699	47.320	1445.70	1412.53	1411.83	1391.95		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
700	47.390	1445.69	1412.45	1411.73	1391.94		
701	47.460	1445.68	1412.36	1411.61	1391.92		
702	47.530	1445.67	1412.25	1411.47	1391.91		
703	47.600	1445.66	1412.14	1411.32	1391.89		
704	47.670	1445.66	1412.05	1411.14	1391.86		
705	47.740	1445.65	1411.98	1410.96	1391.84		
706	47.810	1445.64	1411.95	1410.77	1391.81		
707	47.880	1445.63	1411.95	1410.58	1391.79		
708	47.950	1445.62	1411.98	1410.39	1391.76		
709	48.020	1445.61	1412.03	1410.21	1391.74		
710	48.090	1445.60	1412.08	1410.02	1391.72		
711	48.160	1445.59	1412.15	1409.84	1391.69		
712	48.230	1445.58	1412.21	1409.67	1391.67		
713	48.300	1445.57	1412.27	1409.49	1391.64		
714	48.370	1445.56	1412.33	1409.32	1391.62		
715	48.440	1445.55	1412.39	1409.15	1391.60		
716	48.510	1445.54	1412.44	1408.99	1391.58		
717	48.580	1445.53	1412.48	1408.83	1391.55		
718	48.650	1445.52	1412.52	1408.67	1391.53		
719	48.720	1445.51	1412.55	1408.52	1391.51		
720	48.790	1445.50	1412.58	1408.37	1391.49		
721	48.860	1445.49	1412.60	1408.22	1391.47		
722	48.930	1445.48	1412.61	1408.07	1391.45		
723	49.000	1445.47	1412.62	1407.93	1391.43		
724	49.070	1445.46	1412.63	1407.79	1391.41		
725	49.140	1445.45	1412.63	1407.65	1391.39		
726	49.210	1445.45	1412.62	1407.51	1391.37		
727	49.280	1445.44	1412.61	1407.38	1391.35		
728	49.350	1445.43	1412.60	1407.24	1391.33		
729	49.420	1445.42	1412.58	1407.11	1391.31		
730	49.490	1445.41	1412.55	1406.98	1391.29		
731	49.560	1445.40	1412.52	1406.85	1391.27		
732	49.630	1445.39	1412.49	1406.72	1391.25		
733	49.700	1445.38	1412.45	1406.59	1391.23		
734	49.770	1445.38	1412.41	1406.46	1391.21		
735	49.840	1445.37	1412.37	1406.34	1391.20		
736	49.910	1445.36	1412.32	1406.22	1391.18		
737	49.980	1445.35	1412.27	1406.10	1391.16		
738	50.050	1445.34	1412.23	1405.99	1391.14		
739	50.120	1445.33	1412.18	1405.88	1391.13		
740	50.190	1445.32	1412.13	1405.77	1391.11		
741	50.260	1445.31	1412.08	1405.66	1391.09		
742	50.330	1445.30	1412.03	1405.56	1391.08		
743	50.400	1445.29	1411.98	1405.45	1391.06		
744	50.470	1445.28	1411.93	1405.35	1391.04		
745	50.540	1445.27	1411.88	1405.25	1391.03		
746	50.610	1445.26	1411.83	1405.16	1391.01		
747	50.680	1445.25	1411.79	1405.06	1391.00		
748	50.750	1445.24	1411.74	1404.96	1390.97		
749	50.820	1445.23	1411.69	1404.86	1390.95		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
750	50.890	1445.22	1411.69	1404.76	1390.92		
751	50.960	1445.21	1411.69	1404.67	1390.90		
752	51.030	1445.20	1411.69	1404.60	1390.88		
753	51.100	1445.18	1411.69	1404.55	1390.86		
754	51.170	1445.17	1411.69	1404.51	1390.85		
755	51.240	1445.16	1411.69	1404.48	1390.84		
756	51.310	1445.15	1411.69	1404.45	1390.83		
757	51.380	1445.14	1411.69	1404.42	1390.82		
758	51.450	1445.13	1411.69	1404.39	1390.81		
759	51.520	1445.12	1411.69	1404.36	1390.81		
760	51.590	1445.11	1411.69	1404.33	1390.80		
761	51.660	1445.11	1411.69	1404.30	1390.79		
762	51.730	1445.11	1411.69	1404.28	1390.78		
763	51.800	1445.11	1411.69	1404.25	1390.77		
764	51.870	1445.11	1411.69	1404.23	1390.76		
765	51.940	1445.11	1411.69	1404.22	1390.76		
766	52.010	1445.11	1411.69	1404.20	1390.75		
767	52.080	1445.11	1411.69	1404.19	1390.75		
768	52.150	1445.11	1411.69	1404.18	1390.74		
769	52.220	1445.11	1411.69	1404.18	1390.74		
770	52.290	1445.11	1411.69	1404.17	1390.74		
771	52.360	1445.11	1411.69	1404.17	1390.74		
772	52.430	1445.11	1411.69	1404.17	1390.74		
773	52.500	1445.11	1411.69	1404.17	1390.74		
774	52.570	1445.11	1411.69	1404.17	1390.74		
775	52.640	1445.11	1411.69	1404.17	1390.74		
776	52.710	1445.11	1411.69	1404.17	1390.74		
777	52.780	1445.11	1411.69	1404.17	1390.74		
778	52.850	1445.11	1411.69	1404.17	1390.74		
779	52.920	1445.11	1411.69	1404.17	1390.74		
780	52.990	1445.11	1411.69	1404.17	1390.74		
781	53.060	1445.11	1411.69	1404.17	1390.74		
782	53.130	1445.11	1411.69	1404.17	1390.74		
783	53.200	1445.11	1411.69	1404.17	1390.74		
784	53.270	1445.11	1411.69	1404.17	1390.74		
785	53.340	1445.11	1411.69	1404.17	1390.74		
786	53.410	1445.11	1411.69	1404.17	1390.74		
787	53.480	1445.11	1411.69	1404.17	1390.74		
788	53.550	1445.11	1411.69	1404.17	1390.74		
789	53.620	1445.11	1411.69	1404.17	1390.74		
790	53.690	1445.11	1411.69	1404.17	1390.74		
791	53.760	1445.11	1411.69	1404.17	1390.74		
792	53.830	1445.11	1411.69	1404.17	1390.74		
793	53.900	1445.11	1411.69	1404.17	1390.74		
794	53.970	1445.11	1411.69	1404.17	1390.74		
795	54.040	1445.11	1411.69	1404.17	1390.74		
796	54.110	1445.11	1411.69	1404.17	1390.74		
797	54.180	1445.11	1411.69	1404.17	1390.74		
798	54.250	1445.11	1411.69	1404.17	1390.74		
799	54.320	1445.11	1411.69	1404.17	1390.74		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
800	54.390	1445.11	1411.69	1404.17	1390.74		
801	54.460	1445.11	1411.69	1404.17	1390.74		
802	54.530	1445.11	1411.69	1404.17	1390.74		
803	54.600	1445.11	1411.69	1404.17	1390.74		
804	54.670	1445.11	1411.69	1404.17	1390.74		
805	54.740	1445.11	1411.69	1404.17	1390.74		
806	54.810	1445.11	1411.69	1404.17	1390.74		
807	54.880	1445.11	1411.69	1404.17	1390.74		
808	54.950	1445.11	1411.69	1404.17	1390.74		
809	55.020	1445.11	1411.69	1404.17	1390.74		
810	55.090	1445.11	1411.69	1404.17	1390.74		
811	55.160	1445.11	1411.69	1404.17	1390.74		
812	55.230	1445.11	1411.69	1404.17	1390.74		
813	55.300	1445.11	1411.69	1404.17	1390.74		
814	55.370	1445.11	1411.69	1404.17	1390.74		
815	55.440	1445.11	1411.69	1404.17	1390.74		
816	55.510	1445.11	1411.69	1404.17	1390.74		
817	55.580	1445.11	1411.69	1404.17	1390.74		
818	55.650	1445.11	1411.69	1404.17	1390.74		
819	55.720	1445.11	1411.69	1404.17	1390.74		
820	55.790	1445.11	1411.69	1404.17	1390.74		
821	55.860	1445.11	1411.69	1404.17	1390.74		
822	55.930	1445.11	1411.69	1404.17	1390.74		
823	56.000	1445.11	1411.69	1404.17	1390.74		
824	56.070	1445.11	1411.69	1404.17	1390.74		
825	56.140	1445.11	1411.69	1404.17	1390.74		
826	56.210	1445.11	1411.69	1404.17	1390.74		
827	56.280	1445.11	1411.69	1404.17	1390.74		
828	56.350	1445.11	1411.69	1404.17	1390.74		
829	56.420	1445.11	1411.69	1404.17	1390.74		
830	56.490	1445.11	1411.69	1404.17	1390.74		
831	56.560	1445.11	1411.69	1404.17	1390.74		
832	56.630	1445.11	1411.69	1404.17	1390.74		
833	56.700	1445.11	1411.69	1404.17	1390.74		
834	56.770	1445.11	1411.69	1404.17	1390.74		
835	56.840	1445.11	1411.69	1404.17	1390.74		
836	56.910	1445.11	1411.69	1404.17	1390.74		
837	56.980	1445.11	1411.69	1404.17	1390.74		
838	57.050	1445.11	1411.69	1404.17	1390.74		
839	57.120	1445.11	1411.69	1404.17	1390.74		
840	57.190	1445.11	1411.69	1404.17	1390.74		
841	57.260	1445.11	1411.69	1404.17	1390.74		
842	57.330	1445.11	1411.69	1404.17	1390.74		
843	57.400	1445.11	1411.69	1404.17	1390.74		
844	57.470	1445.11	1411.69	1404.17	1390.74		
845	57.540	1445.11	1411.69	1404.17	1390.74		
846	57.610	1445.11	1411.69	1404.17	1390.74		
847	57.680	1445.11	1411.69	1404.17	1390.74		
848	57.750	1445.11	1411.69	1404.17	1390.74		
849	57.820	1445.11	1411.69	1404.17	1390.74		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
850	57.890	1445.11	1411.69	1404.17	1390.74		
851	57.960	1445.11	1411.69	1404.17	1390.74		
852	58.030	1445.11	1411.69	1404.17	1390.74		
853	58.100	1445.11	1411.69	1404.17	1390.74		
854	58.170	1445.11	1411.69	1404.17	1390.74		
855	58.240	1445.11	1411.69	1404.17	1390.74		
856	58.310	1445.11	1411.69	1404.17	1390.74		
857	58.380	1445.11	1411.69	1404.17	1390.74		
858	58.450	1445.11	1411.69	1404.17	1390.74		
859	58.520	1445.11	1411.69	1404.17	1390.74		
860	58.590	1445.11	1411.69	1404.17	1390.74		
861	58.660	1445.11	1411.69	1404.17	1390.74		
862	58.730	1445.11	1411.69	1404.17	1390.74		
863	58.800	1445.11	1411.69	1404.17	1390.74		
864	58.870	1445.11	1411.69	1404.17	1390.74		
865	58.940	1445.11	1411.69	1404.17	1390.74		
866	59.010	1445.11	1411.69	1404.17	1390.74		
867	59.080	1445.11	1411.69	1404.17	1390.74		
868	59.150	1445.11	1411.69	1404.17	1390.74		
869	59.220	1445.11	1411.69	1404.17	1390.74		
870	59.290	1445.11	1411.69	1404.17	1390.74		
871	59.360	1445.11	1411.69	1404.17	1390.74		
872	59.430	1445.11	1411.69	1404.17	1390.74		
873	59.500	1445.11	1411.69	1404.17	1390.74		
874	59.570	1445.11	1411.69	1404.17	1390.74		
875	59.640	1445.11	1411.69	1404.17	1390.74		
876	59.710	1445.11	1411.69	1404.17	1390.74		
877	59.780	1445.11	1411.69	1404.17	1390.74		
878	59.850	1445.11	1411.69	1404.17	1390.74		
879	59.920	1445.11	1411.69	1404.17	1390.74		
880	59.990	1445.11	1411.69	1404.17	1390.74		
881	60.060	1445.11	1411.69	1404.17	1390.74		
882	60.130	1445.11	1411.69	1404.17	1390.74		
883	60.200	1445.11	1411.69	1404.17	1390.74		
884	60.270	1445.11	1411.69	1404.17	1390.74		
885	60.340	1445.11	1411.69	1404.17	1390.74		
886	60.410	1445.11	1411.69	1404.17	1390.74		
887	60.480	1445.11	1411.69	1404.17	1390.74		
888	60.550	1445.11	1411.69	1404.17	1390.74		
889	60.620	1445.11	1411.69	1404.17	1390.74		
890	60.690	1445.11	1411.69	1404.17	1390.74		
891	60.760	1445.11	1411.69	1404.17	1390.74		
892	60.830	1445.11	1411.69	1404.17	1390.74		
893	60.900	1445.11	1411.69	1404.17	1390.74		
894	60.970	1445.11	1411.69	1404.17	1390.74		
895	61.040	1445.11	1411.69	1404.17	1390.74		
896	61.110	1445.11	1411.69	1404.17	1390.74		
897	61.180	1445.11	1411.69	1404.17	1390.74		
898	61.250	1445.11	1411.69	1404.17	1390.74		
899	61.320	1445.11	1411.69	1404.17	1390.74		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
900	61.390	1445.11	1411.69	1404.17	1390.74		
901	61.460	1445.11	1411.69	1404.17	1390.74		
902	61.530	1445.11	1411.69	1404.17	1390.74		
903	61.600	1445.11	1411.69	1404.17	1390.74		
904	61.670	1445.11	1411.69	1404.17	1390.74		
905	61.740	1445.11	1411.69	1404.17	1390.74		
906	61.810	1445.11	1411.69	1404.17	1390.74		
907	61.880	1445.11	1411.69	1404.17	1390.74		
908	61.950	1445.11	1411.69	1404.17	1390.74		
909	62.020	1445.11	1411.69	1404.17	1390.74		
910	62.090	1445.11	1411.69	1404.17	1390.74		
911	62.160	1445.11	1411.69	1404.17	1390.74		
912	62.230	1445.11	1411.69	1404.17	1390.74		
913	62.300	1445.11	1411.69	1404.17	1390.74		
914	62.370	1445.11	1411.69	1404.17	1390.74		
915	62.440	1445.11	1411.69	1404.17	1390.74		
916	62.510	1445.11	1411.69	1404.17	1390.74		
917	62.580	1445.11	1411.69	1404.17	1390.74		
918	62.650	1445.11	1411.69	1404.17	1390.74		
919	62.720	1445.11	1411.69	1404.17	1390.74		
920	62.790	1445.11	1411.69	1404.17	1390.74		
921	62.860	1445.11	1411.69	1404.17	1390.74		
922	62.930	1445.11	1411.69	1404.17	1390.74		
923	63.000	1445.11	1411.69	1404.17	1390.74		
924	63.070	1445.11	1411.69	1404.17	1390.74		
925	63.140	1445.11	1411.69	1404.17	1390.74		
926	63.210	1445.11	1411.69	1404.17	1390.74		
927	63.280	1445.11	1411.69	1404.17	1390.74		
928	63.350	1445.11	1411.69	1404.17	1390.74		
929	63.420	1445.11	1411.69	1404.17	1390.74		
930	63.490	1445.11	1411.69	1404.17	1390.74		
931	63.560	1445.11	1411.69	1404.17	1390.74		
932	63.630	1445.11	1411.69	1404.17	1390.74		
933	63.700	1445.11	1411.69	1404.17	1390.74		
934	63.770	1445.11	1411.69	1404.17	1390.74		
935	63.840	1445.11	1411.69	1404.17	1390.74		
936	63.910	1445.11	1411.69	1404.17	1390.74		
937	63.980	1445.11	1411.69	1404.17	1390.74		
938	64.050	1445.11	1411.69	1404.17	1390.74		
939	64.120	1445.11	1411.69	1404.17	1390.74		
940	64.190	1445.11	1411.69	1404.17	1390.74		
941	64.260	1445.11	1411.69	1404.17	1390.74		
942	64.330	1445.11	1411.69	1404.17	1390.74		
943	64.400	1445.11	1411.69	1404.17	1390.74		
944	64.470	1445.11	1411.69	1404.17	1390.74		
945	64.540	1445.11	1411.69	1404.17	1390.74		
946	64.610	1445.11	1411.69	1404.17	1390.74		
947	64.680	1445.11	1411.69	1404.17	1390.74		
948	64.750	1445.11	1411.69	1404.17	1390.74		
949	64.820	1445.11	1411.69	1404.17	1390.74		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
950	64.890	1445.11	1411.69	1404.17	1390.74		
951	64.960	1445.11	1411.69	1404.17	1390.74		
952	65.030	1445.11	1411.69	1404.17	1390.74		
953	65.100	1445.11	1411.69	1404.17	1390.74		
954	65.170	1445.11	1411.69	1404.17	1390.74		
955	65.240	1445.11	1411.69	1404.17	1390.74		
956	65.310	1445.11	1411.69	1404.17	1390.74		
957	65.380	1445.11	1411.69	1404.17	1390.74		
958	65.450	1445.11	1411.69	1404.17	1390.74		
959	65.520	1445.11	1411.69	1404.17	1390.74		
960	65.590	1445.11	1411.69	1404.17	1390.74		
961	65.660	1445.11	1411.69	1404.17	1390.74		
962	65.730	1445.11	1411.69	1404.17	1390.74		
963	65.800	1445.11	1411.69	1404.17	1390.74		
964	65.870	1445.11	1411.69	1404.17	1390.74		
965	65.940	1445.11	1411.69	1404.17	1390.74		
966	66.010	1445.11	1411.69	1404.17	1390.74		
967	66.080	1445.11	1411.69	1404.17	1390.74		
968	66.150	1445.11	1411.69	1404.17	1390.74		
969	66.220	1445.11	1411.69	1404.17	1390.74		
970	66.290	1445.11	1411.69	1404.17	1390.74		
971	66.360	1445.11	1411.69	1404.17	1390.74		
972	66.430	1445.11	1411.69	1404.17	1390.74		
973	66.500	1445.11	1411.69	1404.17	1390.74		
974	66.570	1445.11	1411.69	1404.17	1390.74		
975	66.640	1445.11	1411.69	1404.17	1390.74		
976	66.710	1445.11	1411.69	1404.17	1390.74		
977	66.780	1445.11	1411.69	1404.17	1390.74		
978	66.850	1445.11	1411.69	1404.17	1390.74		
979	66.920	1445.11	1411.69	1404.17	1390.74		
980	66.990	1445.11	1411.69	1404.17	1390.74		
981	67.060	1445.11	1411.69	1404.17	1390.74		
982	67.130	1445.11	1411.69	1404.17	1390.74		
983	67.200	1445.11	1411.69	1404.17	1390.74		
984	67.270	1445.11	1411.69	1404.17	1390.74		
985	67.340	1445.11	1411.69	1404.17	1390.74		
986	67.410	1445.11	1411.69	1404.17	1390.74		
987	67.480	1445.11	1411.69	1404.17	1390.74		
988	67.550	1445.11	1411.69	1404.17	1390.74		
989	67.620	1445.11	1411.69	1404.17	1390.74		
990	67.690	1445.11	1411.69	1404.17	1390.74		
991	67.760	1445.11	1411.69	1404.17	1390.74		
992	67.830	1445.11	1411.69	1404.17	1390.74		
993	67.900	1445.11	1411.69	1404.17	1390.74		
994	67.970	1445.11	1411.69	1404.17	1390.74		
995	68.040	1445.11	1411.69	1404.17	1390.74		
996	68.110	1445.11	1411.69	1404.17	1390.74		
997	68.180	1445.11	1411.69	1404.17	1390.74		
998	68.250	1445.11	1411.69	1404.17	1390.74		
999	68.320	1445.11	1411.69	1404.17	1390.74		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
1000	68.390	1445.11	1411.69	1404.17	1390.74		
1001	68.460	1445.11	1411.69	1404.17	1390.74		
1002	68.530	1445.11	1411.69	1404.17	1390.74		
1003	68.600	1445.11	1411.69	1404.17	1390.74		
1004	68.670	1445.11	1411.69	1404.17	1390.74		
1005	68.740	1445.11	1411.69	1404.17	1390.74		
1006	68.810	1445.11	1411.69	1404.17	1390.74		
1007	68.880	1445.11	1411.69	1404.17	1390.74		
1008	68.950	1445.11	1411.69	1404.17	1390.74		
1009	69.020	1445.11	1411.69	1404.17	1390.74		
1010	69.090	1445.11	1411.69	1404.17	1390.74		
1011	69.160	1445.11	1411.69	1404.17	1390.74		
1012	69.230	1445.11	1411.69	1404.17	1390.74		
1013	69.300	1445.11	1411.69	1404.17	1390.74		
1014	69.370	1445.11	1411.69	1404.17	1390.74		
1015	69.440	1445.11	1411.69	1404.17	1390.74		
1016	69.510	1445.11	1411.69	1404.17	1390.74		
1017	69.580	1445.11	1411.69	1404.17	1390.74		
1018	69.650	1445.11	1411.69	1404.17	1390.74		
1019	69.720	1445.11	1411.69	1404.17	1390.74		
1020	69.790	1445.11	1411.69	1404.17	1390.74		
1021	69.860	1445.11	1411.69	1404.17	1390.74		
1022	69.930	1445.11	1411.69	1404.17	1390.74		
1023	70.000	1445.11	1411.69	1404.17	1390.74		
1024	70.070	1445.11	1411.69	1404.17	1390.74		
1025	70.140	1445.11	1411.69	1404.17	1390.74		
1026	70.210	1445.11	1411.69	1404.17	1390.74		
1027	70.280	1445.11	1411.69	1404.17	1390.74		
1028	70.350	1445.11	1411.69	1404.17	1390.74		
1029	70.420	1445.11	1411.69	1404.17	1390.74		
1030	70.490	1445.11	1411.69	1404.17	1390.74		
1031	70.560	1445.11	1411.69	1404.17	1390.74		
1032	70.630	1445.11	1411.69	1404.17	1390.74		
1033	70.700	1445.11	1411.69	1404.17	1390.74		
1034	70.770	1445.11	1411.69	1404.17	1390.74		
1035	70.840	1445.11	1411.69	1404.17	1390.74		
1036	70.910	1445.11	1411.69	1404.17	1390.74		
1037	70.980	1445.11	1411.69	1404.17	1390.74		
1038	71.050	1445.11	1411.69	1404.17	1390.74		
1039	71.120	1445.11	1411.69	1404.17	1390.74		
1040	71.190	1445.11	1411.69	1404.17	1390.74		
1041	71.260	1445.11	1411.69	1404.17	1390.74		
1042	71.330	1445.11	1411.69	1404.17	1390.74		
1043	71.400	1445.11	1411.69	1404.17	1390.74		
1044	71.470	1445.11	1411.69	1404.17	1390.74		
1045	71.540	1445.11	1411.69	1404.17	1390.74		
1046	71.610	1445.11	1411.69	1404.17	1390.74		
1047	71.680	1445.11	1411.69	1404.17	1390.74		
1048	71.750	1445.11	1411.69	1404.17	1390.74		
1049	71.820	1445.11	1411.69	1404.17	1390.74		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
1050	71.890	1445.11	1411.69	1404.17	1390.74		
1051	71.960	1445.11	1411.69	1404.17	1390.74		
1052	72.030	1445.11	1411.69	1404.17	1390.74		
1053	72.100	1445.11	1411.69	1404.17	1390.74		
1054	72.170	1445.11	1411.69	1404.17	1390.74		
1055	72.240	1445.11	1411.69	1404.17	1390.74		
1056	72.310	1445.11	1411.69	1404.17	1390.74		
1057	72.380	1445.11	1411.69	1404.17	1390.74		
1058	72.450	1445.11	1411.69	1404.17	1390.74		
1059	72.520	1445.11	1411.69	1404.17	1390.74		
1060	72.590	1445.11	1411.69	1404.17	1390.74		
1061	72.660	1445.11	1411.69	1404.17	1390.74		
1062	72.730	1445.11	1411.69	1404.17	1390.74		
1063	72.800	1445.11	1411.69	1404.17	1390.74		
1064	72.870	1445.11	1411.69	1404.17	1390.74		
1065	72.940	1445.11	1411.69	1404.17	1390.74		
1066	73.010	1445.11	1411.69	1404.17	1390.74		
1067	73.080	1445.11	1411.69	1404.17	1390.74		
1068	73.150	1445.11	1411.69	1404.17	1390.74		
1069	73.220	1445.11	1411.69	1404.17	1390.74		
1070	73.290	1445.11	1411.69	1404.17	1390.74		
1071	73.360	1445.11	1411.69	1404.17	1390.74		
1072	73.430	1445.11	1411.69	1404.17	1390.74		
1073	73.500	1445.11	1411.69	1404.17	1390.74		
1074	73.570	1445.11	1411.69	1404.17	1390.74		
1075	73.640	1445.11	1411.69	1404.17	1390.74		
1076	73.710	1445.11	1411.69	1404.17	1390.74		
1077	73.780	1445.11	1411.69	1404.17	1390.74		
1078	73.850	1445.11	1411.69	1404.17	1390.74		
1079	73.920	1445.11	1411.69	1404.17	1390.74		
1080	73.990	1445.11	1411.69	1404.17	1390.74		
1081	74.060	1445.11	1411.69	1404.17	1390.74		
1082	74.130	1445.11	1411.69	1404.17	1390.74		
1083	74.200	1445.11	1411.69	1404.17	1390.74		
1084	74.270	1445.11	1411.69	1404.17	1390.74		
1085	74.340	1445.11	1411.69	1404.17	1390.74		
1086	74.410	1445.11	1411.69	1404.17	1390.74		
1087	74.480	1445.11	1411.69	1404.17	1390.74		
1088	74.550	1445.11	1411.69	1404.17	1390.74		
1089	74.620	1445.11	1411.69	1404.17	1390.74		
1090	74.690	1445.11	1411.69	1404.17	1390.74		
1091	74.760	1445.11	1411.69	1404.17	1390.74		
1092	74.830	1445.11	1411.69	1404.17	1390.74		
1093	74.900	1445.11	1411.69	1404.17	1390.74		
1094	74.970	1445.11	1411.69	1404.17	1390.74		
1095	75.040	1445.11	1411.69	1404.17	1390.74		
1096	75.110	1445.11	1411.69	1404.17	1390.74		
1097	75.180	1445.11	1411.69	1404.17	1390.74		
1098	75.250	1445.11	1411.69	1404.17	1390.74		
1099	75.320	1445.11	1411.69	1404.17	1390.74		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
1100	75.390	1445.11	1411.69	1404.17	1390.74		
1101	75.460	1445.11	1411.69	1404.17	1390.74		
1102	75.530	1445.11	1411.69	1404.17	1390.74		
1103	75.600	1445.11	1411.69	1404.17	1390.74		
1104	75.670	1445.11	1411.69	1404.17	1390.74		
1105	75.740	1445.11	1411.69	1404.17	1390.74		
1106	75.810	1445.11	1411.69	1404.17	1390.74		
1107	75.880	1445.11	1411.69	1404.17	1390.74		
1108	75.950	1445.11	1411.69	1404.17	1390.74		
1109	76.020	1445.11	1411.69	1404.17	1390.74		
1110	76.090	1445.11	1411.69	1404.17	1390.74		
1111	76.160	1445.11	1411.69	1404.17	1390.74		
1112	76.230	1445.11	1411.69	1404.17	1390.74		
1113	76.300	1445.11	1411.69	1404.17	1390.74		
1114	76.370	1445.11	1411.69	1404.17	1390.74		
1115	76.440	1445.11	1411.69	1404.17	1390.74		
1116	76.510	1445.11	1411.69	1404.17	1390.74		
1117	76.580	1445.11	1411.69	1404.17	1390.74		
1118	76.650	1445.11	1411.69	1404.17	1390.74		
1119	76.720	1445.11	1411.69	1404.17	1390.74		
1120	76.790	1445.11	1411.69	1404.17	1390.74		
1121	76.860	1445.11	1411.69	1404.17	1390.74		
1122	76.930	1445.11	1411.69	1404.17	1390.74		
1123	77.000	1445.11	1411.69	1404.17	1390.74		
1124	77.070	1445.11	1411.69	1404.17	1390.74		
1125	77.140	1445.11	1411.69	1404.17	1390.74		
1126	77.210	1445.11	1411.69	1404.17	1390.74		
1127	77.280	1445.11	1411.69	1404.17	1390.74		
1128	77.350	1445.11	1411.69	1404.17	1390.74		
1129	77.420	1445.11	1411.69	1404.17	1390.74		
1130	77.490	1445.11	1411.69	1404.17	1390.74		
1131	77.560	1445.11	1411.69	1404.17	1390.74		
1132	77.630	1445.11	1411.69	1404.17	1390.74		
1133	77.700	1445.11	1411.69	1404.17	1390.74		
1134	77.770	1445.11	1411.69	1404.17	1390.74		
1135	77.840	1445.11	1411.69	1404.17	1390.74		
1136	77.910	1445.11	1411.69	1404.17	1390.74		
1137	77.980	1445.11	1411.69	1404.17	1390.74		
1138	78.050	1445.11	1411.69	1404.17	1390.74		
1139	78.120	1445.11	1411.69	1404.17	1390.74		
1140	78.190	1445.11	1411.69	1404.17	1390.74		
1141	78.260	1445.11	1411.69	1404.17	1390.74		
1142	78.330	1445.11	1411.69	1404.17	1390.74		
1143	78.400	1445.11	1411.69	1404.17	1390.74		
1144	78.470	1445.11	1411.69	1404.17	1390.74		
1145	78.540	1445.11	1411.69	1404.17	1390.74		
1146	78.610	1445.11	1411.69	1404.17	1390.74		
1147	78.680	1445.11	1411.69	1404.17	1390.74		
1148	78.750	1445.11	1411.69	1404.17	1390.74		
1149	78.820	1445.11	1411.69	1404.17	1390.74		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
1150	78.890	1445.11	1411.69	1404.17	1390.74		
1151	78.960	1445.11	1411.69	1404.17	1390.74		
1152	79.030	1445.11	1411.69	1404.17	1390.74		
1153	79.100	1445.11	1411.69	1404.17	1390.74		
1154	79.170	1445.11	1411.69	1404.17	1390.74		
1155	79.240	1445.11	1411.69	1404.17	1390.74		
1156	79.310	1445.11	1411.69	1404.17	1390.74		
1157	79.380	1445.11	1411.69	1404.17	1390.74		
1158	79.450	1445.11	1411.69	1404.17	1390.74		
1159	79.520	1445.11	1411.69	1404.17	1390.74		
1160	79.590	1445.11	1411.69	1404.17	1390.74		
1161	79.660	1445.11	1411.69	1404.17	1390.74		
1162	79.730	1445.11	1411.69	1404.17	1390.74		
1163	79.800	1445.11	1411.69	1404.17	1390.74		
1164	79.870	1445.11	1411.69	1404.17	1390.74		

COMPUTED DISCHARGES AT REQUESTED
STATIONS WHERE HYDROGRAPHS ARE PLOTTED :

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs E3)	Station 2 Discharge QC(K,2) (cfs E3)	Station 3 Discharge QC(K,3) (cfs E3)	Station 4 Discharge QC(K,4) (cfs E3)	Station 5 Discharge QC(K,5) (cfs E3)	Station 6 Discharge QC(K,6) (cfs E3)
1	.035	2.00	2.20	.50	.50		
2	.053	2.00	2.33	.50	.50		
3	.070	2.00	2.31	.50	.50		
4	.079	2.00	2.47	.50	.50		
5	.086	2.01	2.45	.50	.50		
6	.093	2.01	2.49	.50	.50		
7	.099	2.01	2.53	.50	.50		
8	.104	2.01	2.55	.50	.50		
9	.109	2.01	2.57	.50	.50		
10	.124	2.01	2.48	.50	.50		
11	.132	2.01	2.68	.50	.50		
12	.140	2.01	2.69	.50	.50		
13	.149	2.01	2.67	.50	.50		
14	.156	2.01	2.74	.50	.50		
15	.163	2.01	2.77	.50	.50		
16	.169	2.01	2.78	.50	.50		
17	.174	2.01	2.81	.50	.50		
18	.179	2.01	2.83	.50	.50		
19	.183	2.01	2.85	.50	.50		
20	.186	2.01	2.86	.50	.50		
21	.198	2.01	2.79	.50	.50		
22	.210	2.01	2.85	.50	.50		
23	.280	2.01	2.67	.50	.50		
24	.350	2.00	2.28	.50	.50		
25	.420	2.00	2.73	.50	.50		
26	.490	2.00	2.68	.50	.50		
27	.560	2.00	2.88	.50	.50		
28	.630	2.00	3.00	.52	.52		
29	.700	2.00	3.20	.86	.86		
30	.770	2.00	3.36	1.54	1.54		
31	.840	2.00	3.52	2.45	2.45		
32	.910	2.00	3.62	3.56	3.56		
33	.980	2.00	3.67	4.84	4.84		
34	1.050	2.00	3.59	6.23	6.23		
35	1.120	2.00	3.48	7.70	7.70		
36	1.190	2.00	3.22	9.12	9.12		
37	1.260	2.00	2.95	9.03	9.03		
38	1.330	2.00	2.66	8.31	8.31		
39	1.400	2.00	2.49	7.58	7.58		
40	1.435	2.00	2.28	7.28	7.28		
41	1.453	2.00	2.57	7.18	7.18		
42	1.470	2.01	2.55	7.08	7.08		
43	1.505	2.01	2.55	6.87	6.87		
44	1.540	2.01	2.56	6.65	6.65		
45	1.575	2.01	2.57	6.44	6.44		
46	1.610	2.01	2.50	6.22	6.22		
47	1.680	2.01	2.35	5.71	5.71		
48	1.750	2.00	2.32	5.16	5.16		
49	1.820	2.00	2.46	4.57	4.57		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs E3)	Station 2 Discharge QC(K,2) (cfs E3)	Station 3 Discharge QC(K,3) (cfs E3)	Station 4 Discharge QC(K,4) (cfs E3)	Station 5 Discharge QC(K,5) (cfs E3)	Station 6 Discharge QC(K,6) (cfs E3)
50	1.890	2.00	2.74	4.07	4.07		
51	1.960	2.00	2.99	3.81	3.81		
52	2.030	2.00	3.09	3.71	3.71		
53	2.100	2.00	3.12	3.70	3.70		
54	2.170	2.00	3.13	3.72	3.72		
55	2.240	2.00	3.12	3.74	3.74		
56	2.310	2.00	3.12	3.75	3.75		
57	2.380	2.00	3.12	3.76	3.76		
58	2.450	2.00	3.11	3.76	3.76		
59	2.520	2.00	3.11	3.77	3.77		
60	2.590	2.00	3.11	3.77	3.77		
61	2.660	2.00	3.11	3.77	3.77		
62	2.730	2.00	3.11	3.77	3.77		
63	2.800	2.00	3.11	3.77	3.77		
64	2.870	2.00	3.11	3.77	3.77		
65	2.940	2.00	3.11	3.77	3.77		
66	3.010	2.00	3.11	3.77	3.77		
67	3.080	2.00	3.11	3.77	3.77		
68	3.150	2.00	3.11	3.77	3.77		
69	3.220	2.00	3.11	3.77	3.77		
70	3.290	2.00	3.11	3.77	3.77		
71	3.360	2.00	3.11	3.77	3.77		
72	3.430	2.00	3.11	3.77	3.77		
73	3.500	2.00	3.11	3.77	3.77		
74	3.570	2.00	3.11	3.77	3.77		
75	3.640	2.00	3.11	3.77	3.77		
76	3.710	2.00	3.11	3.77	3.77		
77	3.780	2.00	3.11	3.77	3.77		
78	3.850	2.00	3.11	3.77	3.77		
79	3.920	2.00	3.11	3.77	3.77		
80	3.990	2.00	3.11	3.77	3.77		
81	4.060	2.00	3.11	3.77	3.77		
82	4.130	2.00	3.11	3.77	3.77		
83	4.200	2.00	3.11	3.77	3.77		
84	4.270	2.00	3.11	3.77	3.77		
85	4.340	2.00	3.11	3.77	3.77		
86	4.410	2.00	3.11	3.77	3.77		
87	4.480	2.00	3.11	3.77	3.77		
88	4.550	2.00	3.11	3.77	3.77		
89	4.620	2.00	3.11	3.77	3.77		
90	4.690	2.00	3.11	3.77	3.77		
91	4.760	2.00	3.11	3.77	3.77		
92	4.830	2.00	3.11	3.77	3.77		
93	4.900	2.00	3.11	3.77	3.77		
94	4.970	2.00	3.11	3.77	3.77		
95	5.040	2.00	3.11	3.77	3.77		
96	5.110	2.00	3.11	3.77	3.77		
97	5.180	2.00	3.11	3.77	3.77		
98	5.250	2.00	3.11	3.77	3.77		
99	5.320	2.00	3.11	3.77	3.77		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs E3)	Station 2 Discharge QC(K,2) (cfs E3)	Station 3 Discharge QC(K,3) (cfs E3)	Station 4 Discharge QC(K,4) (cfs E3)	Station 5 Discharge QC(K,5) (cfs E3)	Station 6 Discharge QC(K,6) (cfs E3)
100	5.390	2.00	3.11	3.77	3.77		
101	5.460	2.00	3.11	3.77	3.77		
102	5.530	2.00	3.11	3.77	3.77		
103	5.600	2.00	3.11	3.77	3.77		
104	5.670	2.00	3.11	3.77	3.77		
105	5.740	2.00	3.11	3.77	3.77		
106	5.810	2.00	3.11	3.77	3.77		
107	5.880	2.00	3.11	3.77	3.77		
108	5.950	2.00	3.11	3.77	3.77		
109	6.020	2.00	3.11	3.77	3.77		
110	6.090	2.00	3.11	3.77	3.77		
111	6.160	2.00	3.11	3.77	3.77		
112	6.230	2.00	3.11	3.77	3.77		
113	6.300	2.00	3.11	3.77	3.77		
114	6.370	2.00	3.11	3.77	3.77		
115	6.440	2.00	3.11	3.77	3.77		
116	6.510	2.00	3.11	3.77	3.77		
117	6.580	2.00	3.11	3.77	3.77		
118	6.650	2.00	3.11	3.77	3.77		
119	6.720	2.00	3.11	3.77	3.77		
120	6.790	2.00	3.11	3.77	3.77		
121	6.860	2.00	3.11	3.77	3.77		
122	6.930	2.00	3.11	3.77	3.77		
123	7.000	2.00	3.11	3.77	3.77		
124	7.070	2.00	3.11	3.77	3.77		
125	7.140	2.00	3.11	3.77	3.77		
126	7.210	2.00	3.11	3.77	3.77		
127	7.280	2.00	3.11	3.77	3.77		
128	7.350	2.00	3.11	3.77	3.77		
129	7.420	2.00	3.11	3.77	3.77		
130	7.490	2.00	3.11	3.77	3.77		
131	7.560	2.00	3.11	3.77	3.77		
132	7.630	2.00	3.11	3.77	3.77		
133	7.700	2.00	3.11	3.77	3.77		
134	7.770	2.00	3.11	3.77	3.77		
135	7.840	2.00	3.11	3.77	3.77		
136	7.910	2.00	3.11	3.77	3.77		
137	7.980	2.00	3.11	3.77	3.77		
138	8.050	2.00	3.11	3.77	3.77		
139	8.120	2.00	3.11	3.77	3.77		
140	8.190	2.00	3.11	3.77	3.77		
141	8.260	2.00	3.11	3.77	3.77		
142	8.330	2.00	3.11	3.77	3.77		
143	8.400	2.00	3.11	3.77	3.77		
144	8.470	2.00	3.11	3.77	3.77		
145	8.540	2.00	3.11	3.77	3.77		
146	8.610	2.00	3.11	3.77	3.77		
147	8.680	2.00	3.11	3.77	3.77		
148	8.750	2.00	3.11	3.77	3.77		
149	8.820	2.00	3.11	3.77	3.77		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs E3)	Station 2 Discharge QC(K,2) (cfs E3)	Station 3 Discharge QC(K,3) (cfs E3)	Station 4 Discharge QC(K,4) (cfs E3)	Station 5 Discharge QC(K,5) (cfs E3)	Station 6 Discharge QC(K,6) (cfs E3)
150	8.890	2.00	3.11	3.77	3.77		
151	8.960	2.00	3.11	3.77	3.77		
152	9.030	2.00	3.11	3.77	3.77		
153	9.100	2.00	3.11	3.77	3.77		
154	9.170	2.00	3.11	3.77	3.77		
155	9.240	2.00	3.11	3.77	3.77		
156	9.310	2.00	3.11	3.77	3.77		
157	9.380	2.00	3.11	3.77	3.77		
158	9.450	2.00	3.11	3.77	3.77		
159	9.520	2.00	3.11	3.77	3.77		
160	9.590	2.00	3.11	3.77	3.77		
161	9.660	2.00	3.11	3.77	3.77		
162	9.730	2.00	3.11	3.77	3.77		
163	9.800	2.00	3.11	3.77	3.77		
164	9.870	2.00	3.11	3.77	3.77		
165	9.940	2.00	3.11	3.77	3.77		
166	10.010	2.00	3.11	3.77	3.77		
167	10.080	2.00	3.11	3.77	3.77		
168	10.150	2.00	3.11	3.77	3.77		
169	10.220	2.00	3.11	3.77	3.77		
170	10.290	2.00	3.11	3.77	3.77		
171	10.360	2.00	3.11	3.77	3.77		
172	10.430	2.00	3.11	3.77	3.77		
173	10.500	2.00	3.11	3.77	3.77		
174	10.570	2.00	3.11	3.77	3.77		
175	10.640	2.00	3.11	3.77	3.77		
176	10.710	2.00	3.11	3.77	3.77		
177	10.780	2.00	3.11	3.77	3.77		
178	10.850	2.00	3.11	3.77	3.77		
179	10.920	2.00	3.11	3.77	3.77		
180	10.990	2.00	3.11	3.77	3.77		
181	11.060	2.00	3.11	3.77	3.77		
182	11.130	2.00	3.11	3.77	3.77		
183	11.200	2.00	3.11	3.77	3.77		
184	11.270	2.00	3.11	3.77	3.77		
185	11.340	2.00	3.11	3.77	3.77		
186	11.410	2.00	3.11	3.77	3.77		
187	11.480	2.00	3.11	3.77	3.77		
188	11.550	2.00	3.11	3.77	3.77		
189	11.620	2.00	3.11	3.77	3.77		
190	11.690	2.00	3.11	3.77	3.77		
191	11.760	2.00	3.11	3.77	3.77		
192	11.830	2.00	3.11	3.77	3.77		
193	11.900	2.00	3.11	3.77	3.77		
194	11.970	2.00	3.11	3.77	3.77		
195	12.040	2.00	3.11	3.77	3.77		
196	12.110	2.00	3.11	3.77	3.77		
197	12.180	2.00	3.11	3.77	3.77		
198	12.250	2.00	3.11	3.77	3.77		
199	12.320	2.00	3.11	3.77	3.77		

BOSS DAMBRK version 2.00
PROJECT TITLE : 72-HR Q=60,000 FLOW WEST
PROJECT NUMBER : 8851485F

4/16/1990

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs E3)	Station 2 Discharge QC(K,2) (cfs E3)	Station 3 Discharge QC(K,3) (cfs E3)	Station 4 Discharge QC(K,4) (cfs E3)	Station 5 Discharge QC(K,5) (cfs E3)	Station 6 Discharge QC(K,6) (cfs E3)
200	12.390	2.00	3.11	3.77	3.77		
201	12.460	2.00	3.11	3.77	3.77		
202	12.530	2.00	3.11	3.77	3.77		
203	12.600	2.00	3.11	3.77	3.77		
204	12.670	2.00	3.11	3.77	3.77		
205	12.740	2.00	3.11	3.77	3.77		
206	12.810	2.00	3.11	3.77	3.77		
207	12.880	2.00	3.11	3.77	3.77		
208	12.950	2.00	3.11	3.77	3.77		
209	13.020	2.00	3.11	3.77	3.77		
210	13.090	2.00	3.11	3.77	3.77		
211	13.160	2.00	3.11	3.77	3.77		
212	13.230	2.00	3.11	3.77	3.77		
213	13.300	2.00	3.11	3.77	3.77		
214	13.370	2.00	3.11	3.77	3.77		
215	13.440	2.00	3.11	3.77	3.77		
216	13.510	2.00	3.11	3.77	3.77		
217	13.580	2.00	3.11	3.77	3.77		
218	13.650	2.00	3.11	3.77	3.77		
219	13.720	2.00	3.11	3.77	3.77		
220	13.790	2.00	3.11	3.77	3.77		
221	13.860	2.00	3.11	3.77	3.77		
222	13.930	2.00	3.11	3.77	3.77		
223	14.000	2.00	3.11	3.77	3.77		
224	14.070	2.00	3.11	3.77	3.77		
225	14.140	2.00	3.11	3.77	3.77		
226	14.210	2.00	3.11	3.77	3.77		
227	14.280	2.00	3.11	3.77	3.77		
228	14.350	2.00	3.11	3.77	3.77		
229	14.420	2.00	3.11	3.77	3.77		
230	14.490	2.00	3.11	3.77	3.77		
231	14.560	2.00	3.11	3.77	3.77		
232	14.630	2.00	3.11	3.77	3.77		
233	14.700	2.00	3.11	3.77	3.77		
234	14.770	2.00	3.11	3.77	3.77		
235	14.840	2.00	3.11	3.77	3.77		
236	14.910	2.00	3.11	3.77	3.77		
237	14.980	2.00	3.11	3.77	3.77		
238	15.050	2.00	3.11	3.77	3.77		
239	15.120	2.00	3.11	3.77	3.77		
240	15.190	2.00	3.11	3.77	3.77		
241	15.260	2.00	3.11	3.77	3.77		
242	15.330	2.00	3.11	3.77	3.77		
243	15.400	2.00	3.11	3.77	3.77		
244	15.470	2.00	3.11	3.77	3.77		
245	15.540	2.00	3.11	3.77	3.77		
246	15.610	2.00	3.11	3.77	3.77		
247	15.680	2.00	3.11	3.77	3.77		
248	15.750	2.00	3.11	3.77	3.77		
249	15.820	2.00	3.11	3.77	3.77		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs E3)	Station 2 Discharge QC(K,2) (cfs E3)	Station 3 Discharge QC(K,3) (cfs E3)	Station 4 Discharge QC(K,4) (cfs E3)	Station 5 Discharge QC(K,5) (cfs E3)	Station 6 Discharge QC(K,6) (cfs E3)
250	15.890	2.00	3.11	3.77	3.77		
251	15.960	2.00	3.11	3.77	3.77		
252	16.030	2.00	3.11	3.77	3.77		
253	16.100	2.00	3.11	3.77	3.77		
254	16.170	2.00	3.11	3.77	3.77		
255	16.240	2.00	3.11	3.77	3.77		
256	16.310	2.00	3.11	3.77	3.77		
257	16.380	2.00	3.11	3.77	3.77		
258	16.450	2.00	3.11	3.77	3.77		
259	16.520	2.00	3.11	3.77	3.77		
260	16.590	2.00	3.11	3.77	3.77		
261	16.660	2.00	3.11	3.77	3.77		
262	16.730	2.00	3.11	3.77	3.77		
263	16.800	2.00	3.11	3.77	3.77		
264	16.870	2.00	3.11	3.77	3.77		
265	16.940	2.00	3.11	3.77	3.77		
266	17.010	2.00	3.11	3.77	3.77		
267	17.080	2.00	3.11	3.77	3.77		
268	17.150	2.00	3.11	3.77	3.77		
269	17.220	2.00	3.11	3.77	3.77		
270	17.290	2.00	3.11	3.77	3.77		
271	17.360	2.00	3.11	3.77	3.77		
272	17.430	2.00	3.11	3.77	3.77		
273	17.500	2.00	3.11	3.77	3.77		
274	17.570	2.00	3.11	3.77	3.77		
275	17.640	2.00	3.11	3.77	3.77		
276	17.710	2.00	3.11	3.77	3.77		
277	17.780	2.00	3.11	3.77	3.77		
278	17.850	2.00	3.11	3.77	3.77		
279	17.920	2.00	3.11	3.77	3.77		
280	17.990	2.00	3.11	3.77	3.77		
281	18.060	2.00	3.11	3.77	3.77		
282	18.130	2.00	3.11	3.77	3.77		
283	18.200	2.00	3.11	3.77	3.77		
284	18.270	2.00	3.11	3.77	3.77		
285	18.340	2.00	3.11	3.77	3.77		
286	18.410	2.00	3.11	3.77	3.77		
287	18.480	2.00	3.11	3.77	3.77		
288	18.550	2.00	3.11	3.77	3.77		
289	18.620	2.00	3.11	3.77	3.77		
290	18.690	2.00	3.11	3.77	3.77		
291	18.760	2.00	3.11	3.77	3.77		
292	18.830	2.00	3.11	3.77	3.77		
293	18.900	2.00	3.11	3.77	3.77		
294	18.970	2.00	3.11	3.77	3.77		
295	19.040	2.00	3.11	3.77	3.77		
296	19.110	2.00	3.11	3.77	3.77		
297	19.180	2.00	3.11	3.77	3.77		
298	19.250	2.00	3.11	3.77	3.77		
299	19.320	2.00	3.11	3.77	3.77		

BOSS DAMBRK version 2.00
PROJECT TITLE : 72-HR Q=60,000 FLOW WEST
PROJECT NUMBER : 8851485F

4/16/1990

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs E3)	Station 2 Discharge QC(K,2) (cfs E3)	Station 3 Discharge QC(K,3) (cfs E3)	Station 4 Discharge QC(K,4) (cfs E3)	Station 5 Discharge QC(K,5) (cfs E3)	Station 6 Discharge QC(K,6) (cfs E3)
300	19.390	2.00	3.11	3.77	3.77		
301	19.460	2.00	3.11	3.77	3.77		
302	19.530	2.00	3.11	3.77	3.77		
303	19.600	2.00	3.11	3.77	3.77		
304	19.670	2.00	3.11	3.77	3.77		
305	19.740	2.00	3.11	3.77	3.77		
306	19.810	2.00	3.11	3.77	3.77		
307	19.880	2.00	3.11	3.77	3.77		
308	19.950	2.00	3.11	3.77	3.77		
309	20.020	2.00	3.11	3.77	3.77		
310	20.090	2.00	3.11	3.77	3.77		
311	20.160	2.00	3.11	3.77	3.77		
312	20.230	2.00	3.11	3.77	3.77		
313	20.300	2.00	3.11	3.77	3.77		
314	20.370	2.00	3.11	3.77	3.77		
315	20.440	2.00	3.11	3.77	3.77		
316	20.510	2.00	3.11	3.77	3.77		
317	20.580	2.00	3.11	3.77	3.77		
318	20.650	2.00	3.11	3.77	3.77		
319	20.720	2.00	3.11	3.77	3.77		
320	20.790	2.00	3.11	3.77	3.77		
321	20.860	2.00	3.11	3.77	3.77		
322	20.930	2.00	3.11	3.77	3.77		
323	21.000	2.00	3.11	3.77	3.77		
324	21.070	2.00	3.11	3.77	3.77		
325	21.140	2.00	3.11	3.77	3.77		
326	21.210	2.00	3.11	3.77	3.77		
327	21.280	2.00	3.11	3.77	3.77		
328	21.350	2.00	3.11	3.77	3.77		
329	21.420	2.00	3.11	3.77	3.77		
330	21.490	2.00	3.11	3.77	3.77		
331	21.560	2.00	3.11	3.77	3.77		
332	21.630	2.00	3.11	3.77	3.77		
333	21.700	2.00	3.11	3.77	3.77		
334	21.770	2.00	3.11	3.77	3.77		
335	21.840	2.00	3.11	3.77	3.77		
336	21.910	2.00	3.11	3.77	3.77		
337	21.980	2.00	3.11	3.77	3.77		
338	22.050	2.00	3.11	3.77	3.77		
339	22.120	2.00	3.11	3.77	3.77		
340	22.190	2.00	3.11	3.77	3.77		
341	22.260	2.00	3.11	3.77	3.77		
342	22.330	2.00	3.11	3.77	3.77		
343	22.400	2.00	3.11	3.77	3.77		
344	22.470	2.00	3.11	3.77	3.77		
345	22.540	2.00	3.11	3.77	3.77		
346	22.610	2.00	3.11	3.77	3.77		
347	22.680	2.00	3.11	3.77	3.77		
348	22.750	2.00	3.11	3.77	3.77		
349	22.820	2.00	3.11	3.77	3.77		

BOSS DAMBRK version 2.00
PROJECT TITLE : 72-HR Q=60,000 FLOW WEST
PROJECT NUMBER : 8851485F

4/16/1990

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs E3)	Station 2 Discharge QC(K,2) (cfs E3)	Station 3 Discharge QC(K,3) (cfs E3)	Station 4 Discharge QC(K,4) (cfs E3)	Station 5 Discharge QC(K,5) (cfs E3)	Station 6 Discharge QC(K,6) (cfs E3)
350	22.890	2.00	3.11	3.77	3.77		
351	22.960	2.00	3.11	3.77	3.77		
352	23.030	2.00	3.11	3.77	3.77		
353	23.100	2.00	3.11	3.77	3.77		
354	23.170	2.00	3.11	3.77	3.77		
355	23.240	2.00	3.11	3.77	3.77		
356	23.310	2.00	3.11	3.77	3.77		
357	23.380	2.00	3.11	3.77	3.77		
358	23.450	2.00	3.11	3.77	3.77		
359	23.520	2.00	3.11	3.77	3.77		
360	23.590	2.00	3.11	3.77	3.77		
361	23.660	2.00	3.11	3.77	3.77		
362	23.730	2.00	3.11	3.77	3.77		
363	23.800	2.00	3.11	3.77	3.77		
364	23.870	2.00	3.11	3.77	3.77		
365	23.940	2.00	3.11	3.77	3.77		
366	24.010	2.00	3.11	3.77	3.77		
367	24.080	2.00	3.11	3.77	3.77		
368	24.150	2.00	3.11	3.77	3.77		
369	24.220	2.00	3.11	3.77	3.77		
370	24.290	2.00	3.11	3.77	3.77		
371	24.360	2.00	3.11	3.77	3.77		
372	24.430	2.00	3.11	3.77	3.77		
373	24.500	2.00	3.11	3.77	3.77		
374	24.570	2.00	3.11	3.77	3.77		
375	24.640	2.00	3.11	3.77	3.77		
376	24.710	2.00	3.11	3.77	3.77		
377	24.780	2.00	3.11	3.77	3.77		
378	24.850	2.00	3.11	3.77	3.77		
379	24.920	2.00	3.11	3.77	3.77		
380	24.990	2.00	3.11	3.77	3.77		
381	25.060	2.00	3.11	3.77	3.77		
382	25.130	2.00	3.11	3.77	3.77		
383	25.200	2.00	3.11	3.77	3.77		
384	25.270	2.00	3.11	3.77	3.77		
385	25.340	2.00	3.11	3.77	3.77		
386	25.410	2.00	3.11	3.77	3.77		
387	25.480	2.00	3.11	3.77	3.77		
388	25.550	2.00	3.11	3.77	3.77		
389	25.620	2.00	3.11	3.77	3.77		
390	25.690	2.00	3.11	3.77	3.77		
391	25.760	2.00	3.11	3.77	3.77		
392	25.830	2.00	3.11	3.77	3.77		
393	25.900	2.00	3.11	3.77	3.77		
394	25.970	2.00	3.11	3.77	3.77		
395	26.040	2.00	3.11	3.77	3.77		
396	26.110	2.00	3.11	3.77	3.77		
397	26.180	2.00	3.11	3.77	3.77		
398	26.250	2.00	3.11	3.77	3.77		
399	26.320	2.00	3.11	3.77	3.77		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs E3)	Station 2 Discharge QC(K,2) (cfs E3)	Station 3 Discharge QC(K,3) (cfs E3)	Station 4 Discharge QC(K,4) (cfs E3)	Station 5 Discharge QC(K,5) (cfs E3)	Station 6 Discharge QC(K,6) (cfs E3)
400	26.390	2.00	3.11	3.77	3.77		
401	26.460	2.00	3.11	3.77	3.77		
402	26.530	2.00	3.11	3.77	3.77		
403	26.600	2.00	3.11	3.77	3.77		
404	26.670	2.00	3.11	3.77	3.77		
405	26.740	2.00	3.11	3.77	3.77		
406	26.810	2.00	3.11	3.77	3.77		
407	26.880	2.00	3.11	3.77	3.77		
408	26.950	2.00	3.11	3.77	3.77		
409	27.020	2.00	3.11	3.77	3.77		
410	27.090	2.00	3.11	3.77	3.77		
411	27.160	2.00	3.11	3.77	3.77		
412	27.230	2.00	3.11	3.77	3.77		
413	27.300	2.00	3.11	3.77	3.77		
414	27.370	2.00	3.11	3.77	3.77		
415	27.440	2.00	3.11	3.77	3.77		
416	27.510	2.00	3.11	3.77	3.77		
417	27.580	2.00	3.11	3.77	3.77		
418	27.650	2.00	3.11	3.77	3.77		
419	27.720	2.00	3.11	3.77	3.77		
420	27.790	2.00	3.11	3.77	3.77		
421	27.860	2.00	3.11	3.77	3.77		
422	27.930	2.00	3.11	3.77	3.77		
423	28.000	2.00	3.11	3.77	3.77		
424	28.070	2.00	3.11	3.77	3.77		
425	28.140	2.00	3.11	3.77	3.77		
426	28.210	2.00	3.11	3.77	3.77		
427	28.280	2.00	3.11	3.77	3.77		
428	28.350	2.00	3.11	3.77	3.77		
429	28.420	2.00	3.11	3.77	3.77		
430	28.490	2.00	3.11	3.77	3.77		
431	28.560	2.00	3.11	3.77	3.77		
432	28.630	2.00	3.11	3.77	3.77		
433	28.700	2.00	3.11	3.77	3.77		
434	28.770	2.00	3.11	3.77	3.77		
435	28.840	2.00	3.11	3.77	3.77		
436	28.910	2.00	3.11	3.77	3.77		
437	28.980	2.00	3.11	3.77	3.77		
438	29.050	2.00	3.11	3.77	3.77		
439	29.120	2.00	3.11	3.77	3.77		
440	29.190	2.00	3.11	3.77	3.77		
441	29.260	2.00	3.11	3.77	3.77		
442	29.330	2.00	3.11	3.77	3.77		
443	29.400	2.00	3.11	3.77	3.77		
444	29.470	2.00	3.11	3.77	3.77		
445	29.540	2.00	3.11	3.77	3.77		
446	29.610	2.00	3.11	3.77	3.77		
447	29.680	2.00	3.11	3.77	3.77		
448	29.750	2.00	3.11	3.77	3.77		
449	29.820	2.00	3.11	3.77	3.77		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs E3)	Station 2 Discharge QC(K,2) (cfs E3)	Station 3 Discharge QC(K,3) (cfs E3)	Station 4 Discharge QC(K,4) (cfs E3)	Station 5 Discharge QC(K,5) (cfs E3)	Station 6 Discharge QC(K,6) (cfs E3)
450	29.890	2.00	3.11	3.77	3.77		
451	29.960	2.00	3.11	3.77	3.77		
452	30.030	2.00	3.11	3.77	3.77		
453	30.100	2.00	3.11	3.77	3.77		
454	30.170	2.00	3.11	3.77	3.77		
455	30.240	2.00	3.11	3.77	3.77		
456	30.310	2.00	3.11	3.77	3.77		
457	30.380	2.00	3.11	3.77	3.77		
458	30.450	2.00	3.11	3.77	3.77		
459	30.520	2.00	3.11	3.77	3.77		
460	30.590	2.00	3.11	3.77	3.77		
461	30.660	2.00	3.11	3.77	3.77		
462	30.730	2.00	3.11	3.77	3.77		
463	30.800	2.00	3.11	3.77	3.77		
464	30.870	2.00	3.11	3.77	3.77		
465	30.940	2.00	3.11	3.77	3.77		
466	31.010	2.00	3.11	3.77	3.77		
467	31.080	2.00	3.11	3.77	3.77		
468	31.150	2.00	3.11	3.77	3.77		
469	31.220	2.00	3.11	3.77	3.77		
470	31.290	2.00	3.11	3.77	3.77		
471	31.360	2.00	3.11	3.77	3.77		
472	31.430	2.00	3.11	3.77	3.77		
473	31.500	2.00	3.11	3.77	3.77		
474	31.570	2.00	3.11	3.77	3.77		
475	31.640	2.00	3.11	3.77	3.77		
476	31.710	2.00	3.11	3.77	3.77		
477	31.780	2.00	3.11	3.77	3.77		
478	31.850	2.00	3.11	3.77	3.77		
479	31.920	2.00	3.11	3.77	3.77		
480	31.990	2.00	3.11	3.77	3.77		
481	32.060	2.00	3.11	3.77	3.77		
482	32.130	2.00	3.11	3.77	3.77		
483	32.200	2.00	3.11	3.77	3.77		
484	32.270	2.00	3.11	3.77	3.77		
485	32.340	2.00	3.11	3.77	3.77		
486	32.410	2.00	3.11	3.77	3.77		
487	32.480	2.00	3.11	3.77	3.77		
488	32.550	2.00	3.11	3.77	3.77		
489	32.620	2.00	3.11	3.77	3.77		
490	32.690	2.00	3.11	3.77	3.77		
491	32.760	2.00	3.11	3.77	3.77		
492	32.830	2.00	3.11	3.77	3.77		
493	32.900	2.00	3.11	3.77	3.77		
494	32.970	2.00	3.11	3.77	3.77		
495	33.040	2.00	3.11	3.77	3.77		
496	33.110	2.00	3.11	3.77	3.77		
497	33.180	2.00	3.11	3.77	3.77		
498	33.250	2.00	3.11	3.77	3.77		
499	33.320	2.00	3.11	3.77	3.77		

BOSS DAMBRK version 2.00
PROJECT TITLE : 72-HR Q=60,000 FLOW WEST
PROJECT NUMBER : 8851485F

4/16/1990

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs E3)	Station 2 Discharge QC(K,2) (cfs E3)	Station 3 Discharge QC(K,3) (cfs E3)	Station 4 Discharge QC(K,4) (cfs E3)	Station 5 Discharge QC(K,5) (cfs E3)	Station 6 Discharge QC(K,6) (cfs E3)
500	33.390	2.00	3.11	3.77	3.77		
501	33.460	2.00	3.11	3.77	3.77		
502	33.530	2.00	3.11	3.77	3.77		
503	33.600	2.00	3.11	3.77	3.77		
504	33.670	2.00	3.11	3.77	3.77		
505	33.740	2.00	3.11	3.77	3.77		
506	33.810	2.00	3.11	3.77	3.77		
507	33.880	2.00	3.11	3.77	3.77		
508	33.950	2.00	3.11	3.77	3.77		
509	34.020	2.00	3.11	3.77	3.77		
510	34.090	2.00	3.11	3.77	3.77		
511	34.160	2.00	3.11	3.77	3.77		
512	34.230	2.00	3.11	3.77	3.77		
513	34.300	2.00	3.11	3.77	3.77		
514	34.370	2.00	3.11	3.77	3.77		
515	34.440	2.00	3.11	3.77	3.77		
516	34.510	2.00	3.11	3.77	3.77		
517	34.580	2.00	3.11	3.77	3.77		
518	34.650	2.00	3.11	3.77	3.77		
519	34.720	2.00	3.11	3.77	3.77		
520	34.790	2.00	3.11	3.77	3.77		
521	34.860	2.00	3.11	3.77	3.77		
522	34.930	2.00	3.11	3.77	3.77		
523	35.000	2.00	3.11	3.77	3.77		
524	35.070	2.00	3.11	3.77	3.77		
525	35.140	2.00	3.11	3.77	3.77		
526	35.210	2.00	3.11	3.77	3.77		
527	35.280	2.00	3.11	3.77	3.77		
528	35.350	2.00	3.11	3.77	3.77		
529	35.420	2.00	3.11	3.77	3.77		
530	35.490	2.00	3.11	3.77	3.77		
531	35.560	2.00	3.11	3.77	3.77		
532	35.630	2.00	3.11	3.77	3.77		
533	35.700	2.00	3.11	3.77	3.77		
534	35.770	2.00	3.11	3.77	3.77		
535	35.840	2.00	3.11	3.77	3.77		
536	35.910	2.00	3.11	3.77	3.77		
537	35.980	2.00	3.11	3.77	3.77		
538	36.050	2.00	3.11	3.77	3.77		
539	36.120	2.00	3.11	3.77	3.77		
540	36.190	2.00	3.11	3.77	3.77		
541	36.260	2.00	3.11	3.77	3.77		
542	36.330	2.00	3.11	3.77	3.77		
543	36.400	2.00	3.11	3.77	3.77		
544	36.470	2.00	3.11	3.77	3.77		
545	36.540	2.00	3.11	3.77	3.77		
546	36.610	2.00	3.11	3.77	3.77		
547	36.680	2.00	3.11	3.77	3.77		
548	36.750	2.00	3.11	3.77	3.77		
549	36.820	2.00	3.11	3.77	3.77		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs E3)	Station 2 Discharge QC(K,2) (cfs E3)	Station 3 Discharge QC(K,3) (cfs E3)	Station 4 Discharge QC(K,4) (cfs E3)	Station 5 Discharge QC(K,5) (cfs E3)	Station 6 Discharge QC(K,6) (cfs E3)
550	36.890	2.00	3.11	3.77	3.77		
551	36.960	2.00	3.11	3.77	3.77		
552	37.030	2.00	3.11	3.77	3.77		
553	37.100	2.00	3.11	3.77	3.77		
554	37.170	2.00	3.11	3.77	3.77		
555	37.240	2.00	3.11	3.77	3.77		
556	37.310	2.00	3.11	3.77	3.77		
557	37.380	2.00	3.11	3.77	3.77		
558	37.450	2.00	3.11	3.77	3.77		
559	37.520	2.00	3.11	3.77	3.77		
560	37.590	2.00	3.11	3.77	3.77		
561	37.660	2.00	3.11	3.77	3.77		
562	37.730	2.00	3.11	3.77	3.77		
563	37.800	2.00	3.11	3.77	3.77		
564	37.870	2.00	3.11	3.77	3.77		
565	37.940	2.00	3.11	3.77	3.77		
566	38.010	2.00	3.11	3.77	3.77		
567	38.080	2.00	3.11	3.77	3.77		
568	38.150	2.00	3.11	3.77	3.77		
569	38.220	2.00	3.11	3.77	3.77		
570	38.290	2.00	3.11	3.77	3.77		
571	38.360	2.00	3.11	3.77	3.77		
572	38.430	2.00	3.11	3.77	3.77		
573	38.500	2.00	3.11	3.77	3.77		
574	38.570	2.00	3.11	3.77	3.77		
575	38.640	2.00	3.11	3.77	3.77		
576	38.710	2.00	3.11	3.77	3.77		
577	38.780	2.00	3.11	3.77	3.77		
578	38.850	2.00	3.11	3.77	3.77		
579	38.920	2.00	3.11	3.77	3.77		
580	38.990	2.00	3.11	3.77	3.77		
581	39.060	2.00	3.11	3.77	3.77		
582	39.130	2.00	3.11	3.77	3.77		
583	39.200	2.00	3.11	3.77	3.77		
584	39.270	2.00	3.11	3.77	3.77		
585	39.340	2.00	3.11	3.77	3.77		
586	39.410	2.00	3.11	3.77	3.77		
587	39.480	2.00	3.11	3.77	3.77		
588	39.550	2.00	3.11	3.77	3.77		
589	39.620	2.00	3.11	3.77	3.77		
590	39.690	2.00	3.11	3.77	3.77		
591	39.760	2.00	3.11	3.77	3.77		
592	39.830	2.00	3.11	3.77	3.77		
593	39.900	2.00	3.11	3.77	3.77		
594	39.970	2.00	3.11	3.77	3.77		
595	40.040	2.01	3.11	3.77	3.77		
596	40.110	2.02	3.11	3.77	3.77		
597	40.180	2.07	3.11	3.77	3.77		
598	40.250	2.15	3.11	3.77	3.77		
599	40.320	2.25	3.11	3.77	3.77		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs E3)	Station 2 Discharge QC(K,2) (cfs E3)	Station 3 Discharge QC(K,3) (cfs E3)	Station 4 Discharge QC(K,4) (cfs E3)	Station 5 Discharge QC(K,5) (cfs E3)	Station 6 Discharge QC(K,6) (cfs E3)
600	40.390	2.36	3.11	3.77	3.77		
601	40.460	2.46	3.11	3.77	3.77		
602	40.530	2.57	3.11	3.77	3.77		
603	40.600	2.67	3.11	3.77	3.77		
604	40.670	2.78	3.11	3.77	3.77		
605	40.740	2.88	3.12	3.77	3.77		
606	40.810	2.99	3.12	3.77	3.77		
607	40.880	3.09	3.13	3.77	3.77		
608	40.950	3.20	3.15	3.77	3.77		
609	41.020	3.30	3.18	3.78	3.78		
610	41.090	3.40	3.22	3.78	3.78		
611	41.160	3.51	3.25	3.79	3.79		
612	41.230	3.61	3.29	3.81	3.81		
613	41.300	3.71	3.33	3.82	3.82		
614	41.370	3.82	3.36	3.84	3.84		
615	41.440	3.92	3.44	3.85	3.85		
616	41.510	4.02	3.53	3.88	3.88		
617	41.580	4.12	3.60	3.90	3.90		
618	41.650	4.23	3.69	3.94	3.94		
619	41.720	4.33	3.76	3.97	3.97		
620	41.790	4.43	3.85	4.01	4.01		
621	41.860	4.53	3.92	4.04	4.04		
622	41.930	4.63	4.00	4.08	4.08		
623	42.000	4.74	4.07	4.11	4.11		
624	42.070	4.86	4.15	4.15	4.15		
625	42.140	5.14	4.22	4.19	4.19		
626	42.210	5.85	4.30	4.22	4.22		
627	42.280	7.11	4.37	4.26	4.26		
628	42.350	8.59	4.45	4.29	4.29		
629	42.420	9.99	4.54	4.33	4.33		
630	42.490	11.36	4.71	4.37	4.37		
631	42.560	12.75	4.94	4.44	4.44		
632	42.630	14.25	5.38	4.55	4.55		
633	42.700	16.00	6.13	4.73	4.73		
634	42.770	18.12	7.26	5.02	5.02		
635	42.840	20.31	8.63	5.46	5.46		
636	42.910	22.48	9.96	6.07	6.07		
637	42.980	24.64	11.15	6.78	6.78		
638	43.050	26.79	12.47	7.53	7.53		
639	43.120	28.93	14.34	8.32	8.32		
640	43.190	31.10	16.91	9.20	9.20		
641	43.260	33.39	19.87	10.22	10.22		
642	43.330	35.77	22.80	11.36	11.36		
643	43.400	38.07	25.52	12.57	12.57		
644	43.470	40.24	27.85	13.81	13.81		
645	43.540	42.40	29.85	15.07	15.07		
646	43.610	44.54	32.02	17.32	17.32		
647	43.680	46.69	34.19	26.27	26.27		
648	43.750	48.83	36.57	32.24	32.24		
649	43.820	50.97	39.15	35.92	35.92		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs E3)	Station 2 Discharge QC(K,2) (cfs E3)	Station 3 Discharge QC(K,3) (cfs E3)	Station 4 Discharge QC(K,4) (cfs E3)	Station 5 Discharge QC(K,5) (cfs E3)	Station 6 Discharge QC(K,6) (cfs E3)
650	43.890	53.11	41.64	38.91	38.91		
651	43.960	55.25	44.41	41.64	41.64		
652	44.030	57.39	47.43	44.51	44.51		
653	44.100	58.75	49.95	47.36	47.36		
654	44.170	58.19	52.30	50.01	50.01		
655	44.240	56.21	54.42	52.41	52.41		
656	44.310	54.05	56.19	54.51	54.51		
657	44.380	51.94	57.24	56.14	56.14		
658	44.450	49.81	57.26	57.00	57.00		
659	44.520	47.68	56.28	56.90	56.90		
660	44.590	45.56	54.62	55.91	55.91		
661	44.660	43.43	52.67	54.31	54.31		
662	44.730	41.32	50.65	52.43	52.43		
663	44.800	39.20	48.63	50.45	50.45		
664	44.870	37.09	46.73	48.53	48.53		
665	44.940	35.00	44.94	46.69	46.69		
666	45.010	33.09	43.29	44.93	44.93		
667	45.080	31.35	41.73	43.29	43.29		
668	45.150	30.02	39.94	41.65	41.65		
669	45.220	29.08	38.11	39.91	39.91		
670	45.290	28.35	36.30	38.12	38.12		
671	45.360	27.65	34.57	36.35	36.35		
672	45.430	26.95	32.95	34.66	34.66		
673	45.500	26.25	31.49	33.08	33.08		
674	45.570	25.56	30.23	31.65	31.65		
675	45.640	24.87	29.19	30.41	30.41		
676	45.710	24.17	28.26	29.32	29.32		
677	45.780	23.48	27.48	28.39	28.39		
678	45.850	22.78	26.76	27.59	27.59		
679	45.920	22.09	26.02	26.84	26.84		
680	45.990	21.39	25.31	26.11	26.11		
681	46.060	20.70	24.65	25.42	25.42		
682	46.130	20.01	23.98	24.75	24.75		
683	46.200	19.32	23.31	24.09	24.09		
684	46.270	18.63	22.65	23.44	23.44		
685	46.340	17.94	21.99	22.79	22.79		
686	46.410	17.24	21.33	22.15	22.15		
687	46.480	16.56	20.68	21.51	21.51		
688	46.550	15.87	20.04	20.88	20.88		
689	46.620	15.18	19.39	20.25	20.25		
690	46.690	14.48	18.75	19.63	19.63		
691	46.760	13.76	18.12	19.02	19.02		
692	46.830	13.03	17.49	18.43	18.43		
693	46.900	12.32	16.86	17.84	17.84		
694	46.970	11.64	16.25	17.28	17.28		
695	47.040	10.99	15.65	16.75	16.75		
696	47.110	10.41	15.05	16.28	16.28		
697	47.180	10.00	14.46	15.99	15.99		
698	47.250	9.77	13.88	15.86	15.86		
699	47.320	9.63	13.32	15.70	15.70		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs E3)	Station 2 Discharge QC(K,2) (cfs E3)	Station 3 Discharge QC(K,3) (cfs E3)	Station 4 Discharge QC(K,4) (cfs E3)	Station 5 Discharge QC(K,5) (cfs E3)	Station 6 Discharge QC(K,6) (cfs E3)
700	47.390	9.48	12.74	15.50	15.50		
701	47.460	9.34	12.12	15.27	15.27		
702	47.530	9.19	11.44	15.01	15.01		
703	47.600	9.05	10.77	14.71	14.71		
704	47.670	8.90	10.23	14.38	14.38		
705	47.740	8.75	9.88	14.03	14.03		
706	47.810	8.61	9.65	13.68	13.68		
707	47.880	8.46	9.48	13.33	13.33		
708	47.950	8.32	9.32	12.99	12.99		
709	48.020	8.17	9.17	12.66	12.66		
710	48.090	8.03	9.01	12.34	12.34		
711	48.160	7.88	8.86	12.02	12.02		
712	48.230	7.74	8.70	11.71	11.71		
713	48.300	7.59	8.56	11.41	11.41		
714	48.370	7.45	8.41	11.12	11.12		
715	48.440	7.30	8.27	10.83	10.83		
716	48.510	7.16	8.12	10.56	10.56		
717	48.580	7.01	7.98	10.29	10.29		
718	48.650	6.87	7.85	10.04	10.04		
719	48.720	6.72	7.71	9.79	9.79		
720	48.790	6.58	7.57	9.54	9.54		
721	48.860	6.43	7.43	9.31	9.31		
722	48.930	6.29	7.29	9.08	9.08		
723	49.000	6.15	7.15	8.86	8.86		
724	49.070	6.01	7.01	8.64	8.64		
725	49.140	5.89	6.87	8.43	8.43		
726	49.210	5.77	6.73	8.22	8.22		
727	49.280	5.66	6.60	8.02	8.02		
728	49.350	5.54	6.46	7.82	7.82		
729	49.420	5.43	6.33	7.62	7.62		
730	49.490	5.31	6.20	7.43	7.43		
731	49.560	5.20	6.08	7.24	7.24		
732	49.630	5.08	5.96	7.05	7.05		
733	49.700	4.97	5.84	6.87	6.87		
734	49.770	4.85	5.73	6.69	6.69		
735	49.840	4.74	5.62	6.52	6.52		
736	49.910	4.63	5.51	6.36	6.36		
737	49.980	4.51	5.40	6.20	6.20		
738	50.050	4.40	5.28	6.04	6.04		
739	50.120	4.28	5.17	5.90	5.90		
740	50.190	4.17	5.06	5.75	5.75		
741	50.260	4.06	4.95	5.61	5.61		
742	50.330	3.94	4.84	5.48	5.48		
743	50.400	3.83	4.73	5.35	5.35		
744	50.470	3.72	4.62	5.22	5.22		
745	50.540	3.61	4.51	5.09	5.09		
746	50.610	3.49	4.41	4.97	4.97		
747	50.680	3.38	4.30	4.85	4.85		
748	50.750	3.27	4.19	4.72	4.72		
749	50.820	3.16	4.08	4.61	4.61		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs E3)	Station 2 Discharge QC(K,2) (cfs E3)	Station 3 Discharge QC(K,3) (cfs E3)	Station 4 Discharge QC(K,4) (cfs E3)	Station 5 Discharge QC(K,5) (cfs E3)	Station 6 Discharge QC(K,6) (cfs E3)
750	50.890	3.04	3.97	4.49	4.49		
751	50.960	2.93	3.95	4.38	4.38		
752	51.030	2.82	3.88	4.30	4.30		
753	51.100	2.71	3.83	4.24	4.24		
754	51.170	2.60	3.75	4.19	4.19		
755	51.240	2.49	3.69	4.15	4.15		
756	51.310	2.38	3.62	4.12	4.12		
757	51.380	2.27	3.55	4.08	4.08		
758	51.450	2.17	3.47	4.05	4.05		
759	51.520	2.09	3.40	4.02	4.02		
760	51.590	2.05	3.33	3.98	3.98		
761	51.660	2.04	3.26	3.95	3.95		
762	51.730	2.04	3.23	3.92	3.92		
763	51.800	2.04	3.22	3.89	3.89		
764	51.870	2.04	3.19	3.87	3.87		
765	51.940	2.04	3.17	3.85	3.85		
766	52.010	2.04	3.14	3.84	3.84		
767	52.080	2.04	3.13	3.82	3.82		
768	52.150	2.04	3.12	3.81	3.81		
769	52.220	2.04	3.13	3.80	3.80		
770	52.290	2.04	3.13	3.80	3.80		
771	52.360	2.04	3.13	3.80	3.80		
772	52.430	2.04	3.13	3.80	3.80		
773	52.500	2.04	3.13	3.80	3.80		
774	52.570	2.04	3.13	3.80	3.80		
775	52.640	2.04	3.13	3.80	3.80		
776	52.710	2.04	3.13	3.80	3.80		
777	52.780	2.04	3.13	3.80	3.80		
778	52.850	2.04	3.13	3.80	3.80		
779	52.920	2.04	3.13	3.80	3.80		
780	52.990	2.04	3.13	3.80	3.80		
781	53.060	2.04	3.13	3.80	3.80		
782	53.130	2.04	3.13	3.80	3.80		
783	53.200	2.04	3.13	3.80	3.80		
784	53.270	2.04	3.13	3.80	3.80		
785	53.340	2.04	3.13	3.80	3.80		
786	53.410	2.04	3.13	3.80	3.80		
787	53.480	2.04	3.13	3.80	3.80		
788	53.550	2.04	3.13	3.80	3.80		
789	53.620	2.04	3.13	3.80	3.80		
790	53.690	2.04	3.13	3.80	3.80		
791	53.760	2.04	3.13	3.80	3.80		
792	53.830	2.04	3.13	3.80	3.80		
793	53.900	2.04	3.13	3.80	3.80		
794	53.970	2.04	3.13	3.80	3.80		
795	54.040	2.04	3.13	3.80	3.80		
796	54.110	2.04	3.13	3.80	3.80		
797	54.180	2.04	3.13	3.80	3.80		
798	54.250	2.04	3.13	3.80	3.80		
799	54.320	2.04	3.13	3.80	3.80		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs E3)	Station 2 Discharge QC(K,2) (cfs E3)	Station 3 Discharge QC(K,3) (cfs E3)	Station 4 Discharge QC(K,4) (cfs E3)	Station 5 Discharge QC(K,5) (cfs E3)	Station 6 Discharge QC(K,6) (cfs E3)
800	54.390	2.04	3.13	3.80	3.80		
801	54.460	2.04	3.13	3.80	3.80		
802	54.530	2.04	3.13	3.80	3.80		
803	54.600	2.04	3.13	3.80	3.80		
804	54.670	2.04	3.13	3.80	3.80		
805	54.740	2.04	3.13	3.80	3.80		
806	54.810	2.04	3.13	3.80	3.80		
807	54.880	2.04	3.13	3.80	3.80		
808	54.950	2.04	3.13	3.80	3.80		
809	55.020	2.04	3.13	3.80	3.80		
810	55.090	2.04	3.13	3.80	3.80		
811	55.160	2.04	3.13	3.80	3.80		
812	55.230	2.04	3.13	3.80	3.80		
813	55.300	2.04	3.13	3.80	3.80		
814	55.370	2.04	3.13	3.80	3.80		
815	55.440	2.04	3.13	3.80	3.80		
816	55.510	2.04	3.13	3.80	3.80		
817	55.580	2.04	3.13	3.80	3.80		
818	55.650	2.04	3.13	3.80	3.80		
819	55.720	2.04	3.13	3.80	3.80		
820	55.790	2.04	3.13	3.80	3.80		
821	55.860	2.04	3.13	3.80	3.80		
822	55.930	2.04	3.13	3.80	3.80		
823	56.000	2.04	3.13	3.80	3.80		
824	56.070	2.04	3.13	3.80	3.80		
825	56.140	2.04	3.13	3.80	3.80		
826	56.210	2.04	3.13	3.80	3.80		
827	56.280	2.04	3.13	3.80	3.80		
828	56.350	2.04	3.13	3.80	3.80		
829	56.420	2.04	3.13	3.80	3.80		
830	56.490	2.04	3.13	3.80	3.80		
831	56.560	2.04	3.13	3.80	3.80		
832	56.630	2.04	3.13	3.80	3.80		
833	56.700	2.04	3.13	3.80	3.80		
834	56.770	2.04	3.13	3.80	3.80		
835	56.840	2.04	3.13	3.80	3.80		
836	56.910	2.04	3.13	3.80	3.80		
837	56.980	2.04	3.13	3.80	3.80		
838	57.050	2.04	3.13	3.80	3.80		
839	57.120	2.04	3.13	3.80	3.80		
840	57.190	2.04	3.13	3.80	3.80		
841	57.260	2.04	3.13	3.80	3.80		
842	57.330	2.04	3.13	3.80	3.80		
843	57.400	2.04	3.13	3.80	3.80		
844	57.470	2.04	3.13	3.80	3.80		
845	57.540	2.04	3.13	3.80	3.80		
846	57.610	2.04	3.13	3.80	3.80		
847	57.680	2.04	3.13	3.80	3.80		
848	57.750	2.04	3.13	3.80	3.80		
849	57.820	2.04	3.13	3.80	3.80		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs E3)	Station 2 Discharge QC(K,2) (cfs E3)	Station 3 Discharge QC(K,3) (cfs E3)	Station 4 Discharge QC(K,4) (cfs E3)	Station 5 Discharge QC(K,5) (cfs E3)	Station 6 Discharge QC(K,6) (cfs E3)
850	57.890	2.04	3.13	3.80	3.80		
851	57.960	2.04	3.13	3.80	3.80		
852	58.030	2.04	3.13	3.80	3.80		
853	58.100	2.04	3.13	3.80	3.80		
854	58.170	2.04	3.13	3.80	3.80		
855	58.240	2.04	3.13	3.80	3.80		
856	58.310	2.04	3.13	3.80	3.80		
857	58.380	2.04	3.13	3.80	3.80		
858	58.450	2.04	3.13	3.80	3.80		
859	58.520	2.04	3.13	3.80	3.80		
860	58.590	2.04	3.13	3.80	3.80		
861	58.660	2.04	3.13	3.80	3.80		
862	58.730	2.04	3.13	3.80	3.80		
863	58.800	2.04	3.13	3.80	3.80		
864	58.870	2.04	3.13	3.80	3.80		
865	58.940	2.04	3.13	3.80	3.80		
866	59.010	2.04	3.13	3.80	3.80		
867	59.080	2.04	3.13	3.80	3.80		
868	59.150	2.04	3.13	3.80	3.80		
869	59.220	2.04	3.13	3.80	3.80		
870	59.290	2.04	3.13	3.80	3.80		
871	59.360	2.04	3.13	3.80	3.80		
872	59.430	2.04	3.13	3.80	3.80		
873	59.500	2.04	3.13	3.80	3.80		
874	59.570	2.04	3.13	3.80	3.80		
875	59.640	2.04	3.13	3.80	3.80		
876	59.710	2.04	3.13	3.80	3.80		
877	59.780	2.04	3.13	3.80	3.80		
878	59.850	2.04	3.13	3.80	3.80		
879	59.920	2.04	3.13	3.80	3.80		
880	59.990	2.04	3.13	3.80	3.80		
881	60.060	2.04	3.13	3.80	3.80		
882	60.130	2.04	3.13	3.80	3.80		
883	60.200	2.04	3.13	3.80	3.80		
884	60.270	2.04	3.13	3.80	3.80		
885	60.340	2.04	3.13	3.80	3.80		
886	60.410	2.04	3.13	3.80	3.80		
887	60.480	2.04	3.13	3.80	3.80		
888	60.550	2.04	3.13	3.80	3.80		
889	60.620	2.04	3.13	3.80	3.80		
890	60.690	2.04	3.13	3.80	3.80		
891	60.760	2.04	3.13	3.80	3.80		
892	60.830	2.04	3.13	3.80	3.80		
893	60.900	2.04	3.13	3.80	3.80		
894	60.970	2.04	3.13	3.80	3.80		
895	61.040	2.04	3.13	3.80	3.80		
896	61.110	2.04	3.13	3.80	3.80		
897	61.180	2.04	3.13	3.80	3.80		
898	61.250	2.04	3.13	3.80	3.80		
899	61.320	2.04	3.13	3.80	3.80		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs E3)	Station 2 Discharge QC(K,2) (cfs E3)	Station 3 Discharge QC(K,3) (cfs E3)	Station 4 Discharge QC(K,4) (cfs E3)	Station 5 Discharge QC(K,5) (cfs E3)	Station 6 Discharge QC(K,6) (cfs E3)
900	61.390	2.04	3.13	3.80	3.80		
901	61.460	2.04	3.13	3.80	3.80		
902	61.530	2.04	3.13	3.80	3.80		
903	61.600	2.04	3.13	3.80	3.80		
904	61.670	2.04	3.13	3.80	3.80		
905	61.740	2.04	3.13	3.80	3.80		
906	61.810	2.04	3.13	3.80	3.80		
907	61.880	2.04	3.13	3.80	3.80		
908	61.950	2.04	3.13	3.80	3.80		
909	62.020	2.04	3.13	3.80	3.80		
910	62.090	2.04	3.13	3.80	3.80		
911	62.160	2.04	3.13	3.80	3.80		
912	62.230	2.04	3.13	3.80	3.80		
913	62.300	2.04	3.13	3.80	3.80		
914	62.370	2.04	3.13	3.80	3.80		
915	62.440	2.04	3.13	3.80	3.80		
916	62.510	2.04	3.13	3.80	3.80		
917	62.580	2.04	3.13	3.80	3.80		
918	62.650	2.04	3.13	3.80	3.80		
919	62.720	2.04	3.13	3.80	3.80		
920	62.790	2.04	3.13	3.80	3.80		
921	62.860	2.04	3.13	3.80	3.80		
922	62.930	2.04	3.13	3.80	3.80		
923	63.000	2.04	3.13	3.80	3.80		
924	63.070	2.04	3.13	3.80	3.80		
925	63.140	2.04	3.13	3.80	3.80		
926	63.210	2.04	3.13	3.80	3.80		
927	63.280	2.04	3.13	3.80	3.80		
928	63.350	2.04	3.13	3.80	3.80		
929	63.420	2.04	3.13	3.80	3.80		
930	63.490	2.04	3.13	3.80	3.80		
931	63.560	2.04	3.13	3.80	3.80		
932	63.630	2.04	3.13	3.80	3.80		
933	63.700	2.04	3.13	3.80	3.80		
934	63.770	2.04	3.13	3.80	3.80		
935	63.840	2.04	3.13	3.80	3.80		
936	63.910	2.04	3.13	3.80	3.80		
937	63.980	2.04	3.13	3.80	3.80		
938	64.050	2.04	3.13	3.80	3.80		
939	64.120	2.04	3.13	3.80	3.80		
940	64.190	2.04	3.13	3.80	3.80		
941	64.260	2.04	3.13	3.80	3.80		
942	64.330	2.04	3.13	3.80	3.80		
943	64.400	2.04	3.13	3.80	3.80		
944	64.470	2.04	3.13	3.80	3.80		
945	64.540	2.04	3.13	3.80	3.80		
946	64.610	2.04	3.13	3.80	3.80		
947	64.680	2.04	3.13	3.80	3.80		
948	64.750	2.04	3.13	3.80	3.80		
949	64.820	2.04	3.13	3.80	3.80		

BOSS DAMBRK version 2.00
PROJECT TITLE : 72-HR Q=60,000 FLOW WEST
PROJECT NUMBER : 8851485F

4/16/1990

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs E3)	Station 2 Discharge QC(K,2) (cfs E3)	Station 3 Discharge QC(K,3) (cfs E3)	Station 4 Discharge QC(K,4) (cfs E3)	Station 5 Discharge QC(K,5) (cfs E3)	Station 6 Discharge QC(K,6) (cfs E3)
950	64.890	2.04	3.13	3.80	3.80		
951	64.960	2.04	3.13	3.80	3.80		
952	65.030	2.04	3.13	3.80	3.80		
953	65.100	2.04	3.13	3.80	3.80		
954	65.170	2.04	3.13	3.80	3.80		
955	65.240	2.04	3.13	3.80	3.80		
956	65.310	2.04	3.13	3.80	3.80		
957	65.380	2.04	3.13	3.80	3.80		
958	65.450	2.04	3.13	3.80	3.80		
959	65.520	2.04	3.13	3.80	3.80		
960	65.590	2.04	3.13	3.80	3.80		
961	65.660	2.04	3.13	3.80	3.80		
962	65.730	2.04	3.13	3.80	3.80		
963	65.800	2.04	3.13	3.80	3.80		
964	65.870	2.04	3.13	3.80	3.80		
965	65.940	2.04	3.13	3.80	3.80		
966	66.010	2.04	3.13	3.80	3.80		
967	66.080	2.04	3.13	3.80	3.80		
968	66.150	2.04	3.13	3.80	3.80		
969	66.220	2.04	3.13	3.80	3.80		
970	66.290	2.04	3.13	3.80	3.80		
971	66.360	2.04	3.13	3.80	3.80		
972	66.430	2.04	3.13	3.80	3.80		
973	66.500	2.04	3.13	3.80	3.80		
974	66.570	2.04	3.13	3.80	3.80		
975	66.640	2.04	3.13	3.80	3.80		
976	66.710	2.04	3.13	3.80	3.80		
977	66.780	2.04	3.13	3.80	3.80		
978	66.850	2.04	3.13	3.80	3.80		
979	66.920	2.04	3.13	3.80	3.80		
980	66.990	2.04	3.13	3.80	3.80		
981	67.060	2.04	3.13	3.80	3.80		
982	67.130	2.04	3.13	3.80	3.80		
983	67.200	2.04	3.13	3.80	3.80		
984	67.270	2.04	3.13	3.80	3.80		
985	67.340	2.04	3.13	3.80	3.80		
986	67.410	2.04	3.13	3.80	3.80		
987	67.480	2.04	3.13	3.80	3.80		
988	67.550	2.04	3.13	3.80	3.80		
989	67.620	2.04	3.13	3.80	3.80		
990	67.690	2.04	3.13	3.80	3.80		
991	67.760	2.04	3.13	3.80	3.80		
992	67.830	2.04	3.13	3.80	3.80		
993	67.900	2.04	3.13	3.80	3.80		
994	67.970	2.04	3.13	3.80	3.80		
995	68.040	2.04	3.13	3.80	3.80		
996	68.110	2.04	3.13	3.80	3.80		
997	68.180	2.04	3.13	3.80	3.80		
998	68.250	2.04	3.13	3.80	3.80		
999	68.320	2.04	3.13	3.80	3.80		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs E3)	Station 2 Discharge QC(K,2) (cfs E3)	Station 3 Discharge QC(K,3) (cfs E3)	Station 4 Discharge QC(K,4) (cfs E3)	Station 5 Discharge QC(K,5) (cfs E3)	Station 6 Discharge QC(K,6) (cfs E3)
1000	68.390	2.04	3.13	3.80	3.80		
1001	68.460	2.04	3.13	3.80	3.80		
1002	68.530	2.04	3.13	3.80	3.80		
1003	68.600	2.04	3.13	3.80	3.80		
1004	68.670	2.04	3.13	3.80	3.80		
1005	68.740	2.04	3.13	3.80	3.80		
1006	68.810	2.04	3.13	3.80	3.80		
1007	68.880	2.04	3.13	3.80	3.80		
1008	68.950	2.04	3.13	3.80	3.80		
1009	69.020	2.04	3.13	3.80	3.80		
1010	69.090	2.04	3.13	3.80	3.80		
1011	69.160	2.04	3.13	3.80	3.80		
1012	69.230	2.04	3.13	3.80	3.80		
1013	69.300	2.04	3.13	3.80	3.80		
1014	69.370	2.04	3.13	3.80	3.80		
1015	69.440	2.04	3.13	3.80	3.80		
1016	69.510	2.04	3.13	3.80	3.80		
1017	69.580	2.04	3.13	3.80	3.80		
1018	69.650	2.04	3.13	3.80	3.80		
1019	69.720	2.04	3.13	3.80	3.80		
1020	69.790	2.04	3.13	3.80	3.80		
1021	69.860	2.04	3.13	3.80	3.80		
1022	69.930	2.04	3.13	3.80	3.80		
1023	70.000	2.04	3.13	3.80	3.80		
1024	70.070	2.04	3.13	3.80	3.80		
1025	70.140	2.04	3.13	3.80	3.80		
1026	70.210	2.04	3.13	3.80	3.80		
1027	70.280	2.04	3.13	3.80	3.80		
1028	70.350	2.04	3.13	3.80	3.80		
1029	70.420	2.04	3.13	3.80	3.80		
1030	70.490	2.04	3.13	3.80	3.80		
1031	70.560	2.04	3.13	3.80	3.80		
1032	70.630	2.04	3.13	3.80	3.80		
1033	70.700	2.04	3.13	3.80	3.80		
1034	70.770	2.04	3.13	3.80	3.80		
1035	70.840	2.04	3.13	3.80	3.80		
1036	70.910	2.04	3.13	3.80	3.80		
1037	70.980	2.04	3.13	3.80	3.80		
1038	71.050	2.04	3.13	3.80	3.80		
1039	71.120	2.04	3.13	3.80	3.80		
1040	71.190	2.04	3.13	3.80	3.80		
1041	71.260	2.04	3.13	3.80	3.80		
1042	71.330	2.04	3.13	3.80	3.80		
1043	71.400	2.04	3.13	3.80	3.80		
1044	71.470	2.04	3.13	3.80	3.80		
1045	71.540	2.04	3.13	3.80	3.80		
1046	71.610	2.04	3.13	3.80	3.80		
1047	71.680	2.04	3.13	3.80	3.80		
1048	71.750	2.04	3.13	3.80	3.80		
1049	71.820	2.04	3.13	3.80	3.80		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs E3)	Station 2 Discharge QC(K,2) (cfs E3)	Station 3 Discharge QC(K,3) (cfs E3)	Station 4 Discharge QC(K,4) (cfs E3)	Station 5 Discharge QC(K,5) (cfs E3)	Station 6 Discharge QC(K,6) (cfs E3)
1050	71.890	2.04	3.13	3.80	3.80		
1051	71.960	2.04	3.13	3.80	3.80		
1052	72.030	2.04	3.13	3.80	3.80		
1053	72.100	2.04	3.13	3.80	3.80		
1054	72.170	2.04	3.13	3.80	3.80		
1055	72.240	2.04	3.13	3.80	3.80		
1056	72.310	2.04	3.13	3.80	3.80		
1057	72.380	2.04	3.13	3.80	3.80		
1058	72.450	2.04	3.13	3.80	3.80		
1059	72.520	2.04	3.13	3.80	3.80		
1060	72.590	2.04	3.13	3.80	3.80		
1061	72.660	2.04	3.13	3.80	3.80		
1062	72.730	2.04	3.13	3.80	3.80		
1063	72.800	2.04	3.13	3.80	3.80		
1064	72.870	2.04	3.13	3.80	3.80		
1065	72.940	2.04	3.13	3.80	3.80		
1066	73.010	2.04	3.13	3.80	3.80		
1067	73.080	2.04	3.13	3.80	3.80		
1068	73.150	2.04	3.13	3.80	3.80		
1069	73.220	2.04	3.13	3.80	3.80		
1070	73.290	2.04	3.13	3.80	3.80		
1071	73.360	2.04	3.13	3.80	3.80		
1072	73.430	2.04	3.13	3.80	3.80		
1073	73.500	2.04	3.13	3.80	3.80		
1074	73.570	2.04	3.13	3.80	3.80		
1075	73.640	2.04	3.13	3.80	3.80		
1076	73.710	2.04	3.13	3.80	3.80		
1077	73.780	2.04	3.13	3.80	3.80		
1078	73.850	2.04	3.13	3.80	3.80		
1079	73.920	2.04	3.13	3.80	3.80		
1080	73.990	2.04	3.13	3.80	3.80		
1081	74.060	2.04	3.13	3.80	3.80		
1082	74.130	2.04	3.13	3.80	3.80		
1083	74.200	2.04	3.13	3.80	3.80		
1084	74.270	2.04	3.13	3.80	3.80		
1085	74.340	2.04	3.13	3.80	3.80		
1086	74.410	2.04	3.13	3.80	3.80		
1087	74.480	2.04	3.13	3.80	3.80		
1088	74.550	2.04	3.13	3.80	3.80		
1089	74.620	2.04	3.13	3.80	3.80		
1090	74.690	2.04	3.13	3.80	3.80		
1091	74.760	2.04	3.13	3.80	3.80		
1092	74.830	2.04	3.13	3.80	3.80		
1093	74.900	2.04	3.13	3.80	3.80		
1094	74.970	2.04	3.13	3.80	3.80		
1095	75.040	2.04	3.13	3.80	3.80		
1096	75.110	2.04	3.13	3.80	3.80		
1097	75.180	2.04	3.13	3.80	3.80		
1098	75.250	2.04	3.13	3.80	3.80		
1099	75.320	2.04	3.13	3.80	3.80		

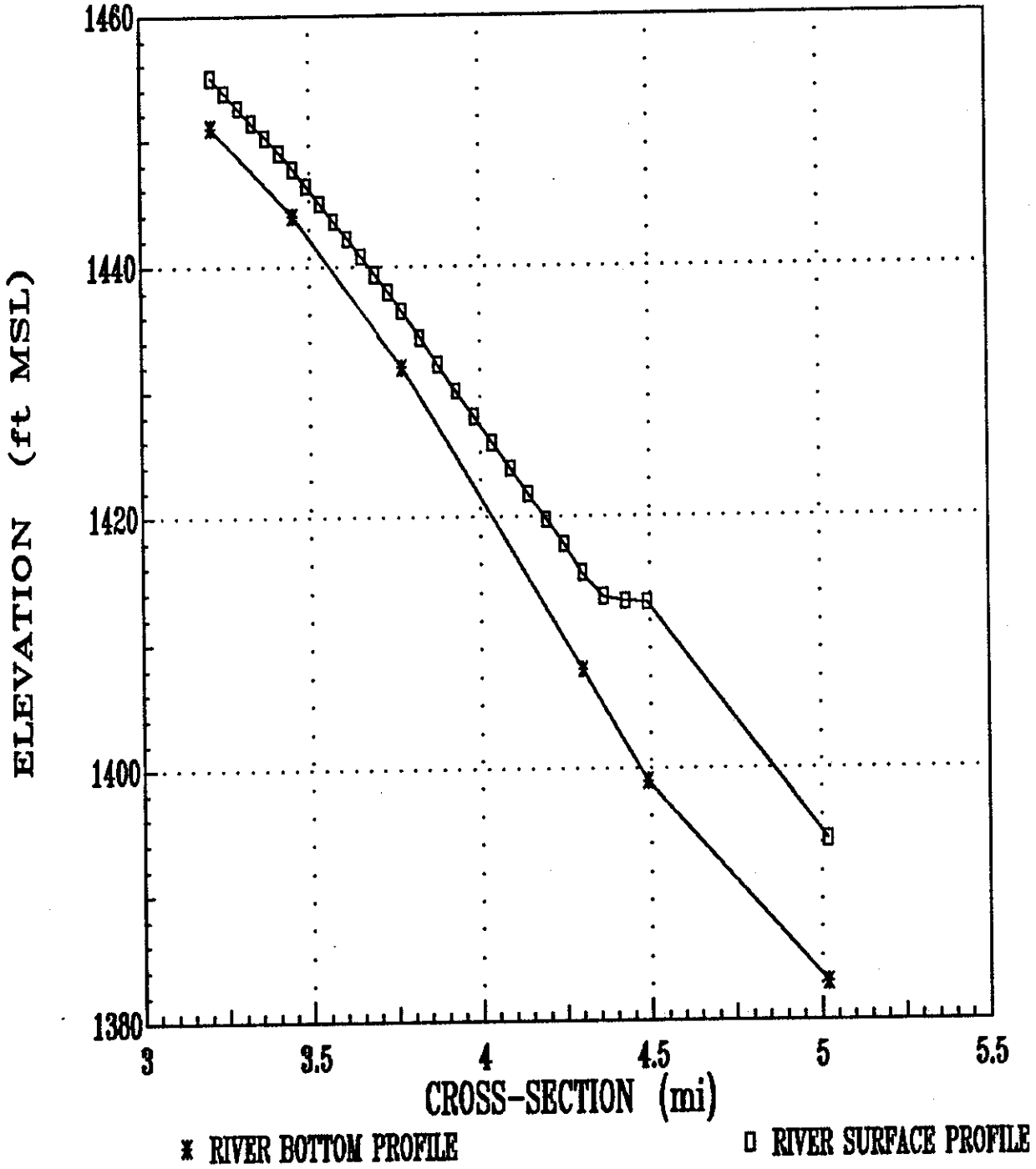
Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs E3)	Station 2 Discharge QC(K,2) (cfs E3)	Station 3 Discharge QC(K,3) (cfs E3)	Station 4 Discharge QC(K,4) (cfs E3)	Station 5 Discharge QC(K,5) (cfs E3)	Station 6 Discharge QC(K,6) (cfs E3)
1100	75.390	2.04	3.13	3.80	3.80		
1101	75.460	2.04	3.13	3.80	3.80		
1102	75.530	2.04	3.13	3.80	3.80		
1103	75.600	2.04	3.13	3.80	3.80		
1104	75.670	2.04	3.13	3.80	3.80		
1105	75.740	2.04	3.13	3.80	3.80		
1106	75.810	2.04	3.13	3.80	3.80		
1107	75.880	2.04	3.13	3.80	3.80		
1108	75.950	2.04	3.13	3.80	3.80		
1109	76.020	2.04	3.13	3.80	3.80		
1110	76.090	2.04	3.13	3.80	3.80		
1111	76.160	2.04	3.13	3.80	3.80		
1112	76.230	2.04	3.13	3.80	3.80		
1113	76.300	2.04	3.13	3.80	3.80		
1114	76.370	2.04	3.13	3.80	3.80		
1115	76.440	2.04	3.13	3.80	3.80		
1116	76.510	2.04	3.13	3.80	3.80		
1117	76.580	2.04	3.13	3.80	3.80		
1118	76.650	2.04	3.13	3.80	3.80		
1119	76.720	2.04	3.13	3.80	3.80		
1120	76.790	2.04	3.13	3.80	3.80		
1121	76.860	2.04	3.13	3.80	3.80		
1122	76.930	2.04	3.13	3.80	3.80		
1123	77.000	2.04	3.13	3.80	3.80		
1124	77.070	2.04	3.13	3.80	3.80		
1125	77.140	2.04	3.13	3.80	3.80		
1126	77.210	2.04	3.13	3.80	3.80		
1127	77.280	2.04	3.13	3.80	3.80		
1128	77.350	2.04	3.13	3.80	3.80		
1129	77.420	2.04	3.13	3.80	3.80		
1130	77.490	2.04	3.13	3.80	3.80		
1131	77.560	2.04	3.13	3.80	3.80		
1132	77.630	2.04	3.13	3.80	3.80		
1133	77.700	2.04	3.13	3.80	3.80		
1134	77.770	2.04	3.13	3.80	3.80		
1135	77.840	2.04	3.13	3.80	3.80		
1136	77.910	2.04	3.13	3.80	3.80		
1137	77.980	2.04	3.13	3.80	3.80		
1138	78.050	2.04	3.13	3.80	3.80		
1139	78.120	2.04	3.13	3.80	3.80		
1140	78.190	2.04	3.13	3.80	3.80		
1141	78.260	2.04	3.13	3.80	3.80		
1142	78.330	2.04	3.13	3.80	3.80		
1143	78.400	2.04	3.13	3.80	3.80		
1144	78.470	2.04	3.13	3.80	3.80		
1145	78.540	2.04	3.13	3.80	3.80		
1146	78.610	2.04	3.13	3.80	3.80		
1147	78.680	2.04	3.13	3.80	3.80		
1148	78.750	2.04	3.13	3.80	3.80		
1149	78.820	2.04	3.13	3.80	3.80		

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs E3)	Station 2 Discharge QC(K,2) (cfs E3)	Station 3 Discharge QC(K,3) (cfs E3)	Station 4 Discharge QC(K,4) (cfs E3)	Station 5 Discharge QC(K,5) (cfs E3)	Station 6 Discharge QC(K,6) (cfs E3)
1150	78.890	2.04	3.13	3.80	3.80		
1151	78.960	2.04	3.13	3.80	3.80		
1152	79.030	2.04	3.13	3.80	3.80		
1153	79.100	2.04	3.13	3.80	3.80		
1154	79.170	2.04	3.13	3.80	3.80		
1155	79.240	2.04	3.13	3.80	3.80		
1156	79.310	2.04	3.13	3.80	3.80		
1157	79.380	2.04	3.13	3.80	3.80		
1158	79.450	2.04	3.13	3.80	3.80		
1159	79.520	2.04	3.13	3.80	3.80		
1160	79.590	2.04	3.13	3.80	3.80		
1161	79.660	2.04	3.13	3.80	3.80		
1162	79.730	2.04	3.13	3.80	3.80		
1163	79.800	2.04	3.13	3.80	3.80		
1164	79.870	2.04	3.13	3.80	3.80		

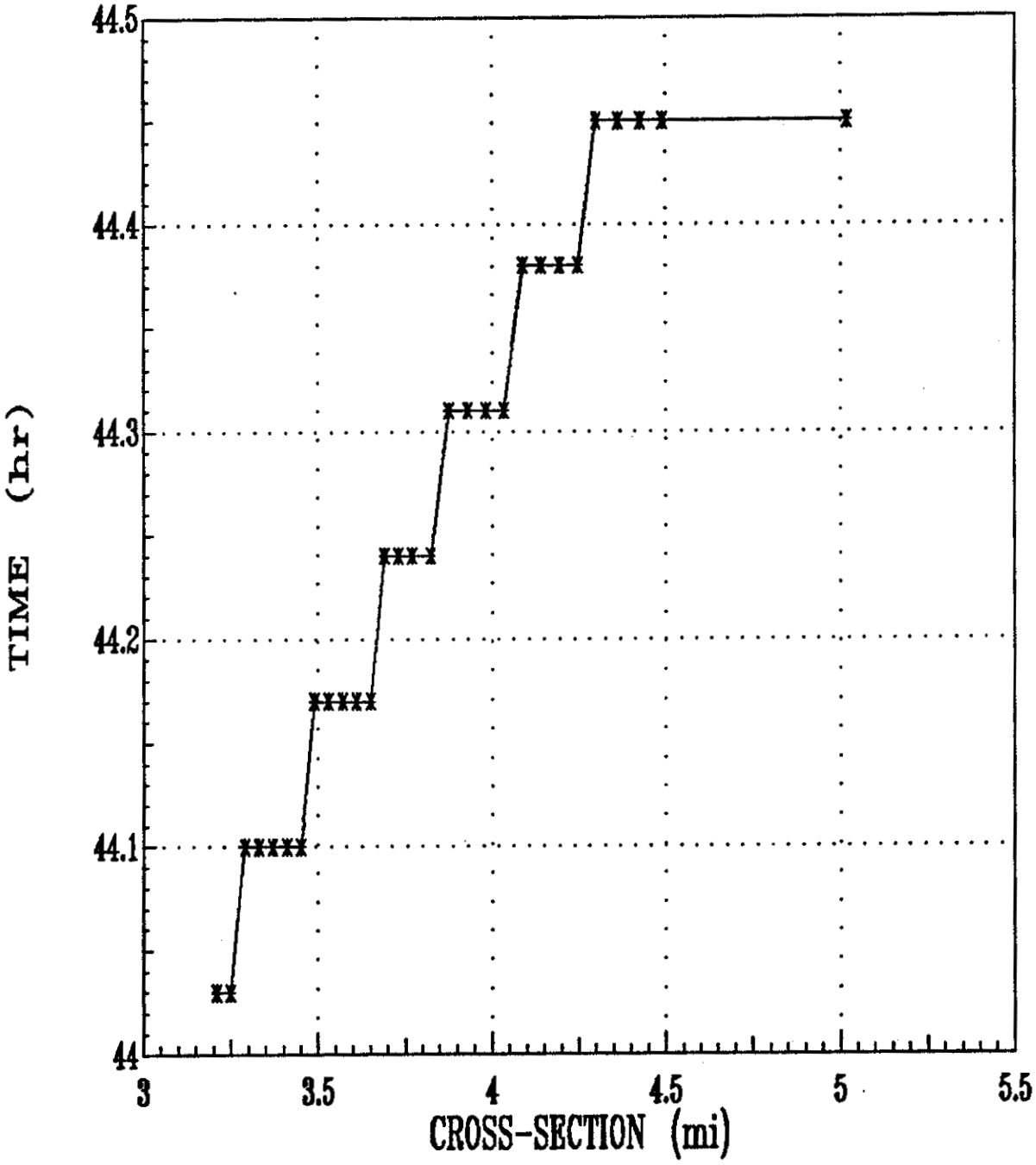
END OF OUTPUT

FLOOD CREST SUMMARY

RIVER BOTTOM & PEAK WATER SURFACE PROFILE



TIME TO PEAK PROFILE



Run #5
(From Section #12S through #24)

B O S S D A M B R K (tm)

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Version : 2.00
Serial Number : 0010361.200

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PROGRAM ORIGIN :

Boss DamBrk (tm) is an enhanced version of Professor D. L. Fread's 1988 NWS DAMBRK program.

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PROJECT DESCRIPTION :

PROJECT TITLE : 72-HR Q=277,288 FLOW SOUTH
PROJECT NUMBER : 8851485F
DESCRIPTION : CAVE BUTTES DAM DAMBREAK ANALYSIS
ENGINEER : SFR
DATE OF RUN : 4/14/1990
TIME OF RUN : 12:14 pm

INPUT DATA SUMMARY :

INPUT CONTROL PARAMETERS :

Number of Dynamic Routing Reaches (KKN)	9	
Type of Reservoir Routing (KUI)	0	(storage routing)
Number of multiple dams/bridges (MULDAM)	0	
No. of Reservoir Inflow Hydrograph Points (ITEH)	13	
No. of Informational Cross-Sections (NPRT)	0	
Flood-Plain Routing (KFLP)	0	(no)

Hydrograph Time Intervals (DHF, hr)	.00
Routing Period (TEH, hr)	80.00
Breach Development Exponent (BREX)	1.00
Mud/Debris Flow Parameter (MUD)	0
Dry Bed Routing Parameter (IWF)	0
Hydraulic Radius Computation Parameter (KPRES)	0

Time Elapsed TI(K) (hr)	Upstream Inflow QI(K) (cfs)
.00	5000.0
41.10	5000.0
42.00	5000.0
43.40	76000.0
44.03	277288.0
45.00	210000.0
46.90	84000.0
49.00	36000.0
51.10	22000.0
52.50	18000.0
55.00	10000.0
65.00	7500.0
80.00	5000.0

SUMMARY OF PROGRAM CONTROL PARAMETERS :

Number of Cross-Sections Entered (NS)	14	
Number of Top Widths Entered (NCS)	8	
Number of Cross-Sectional Hydrographs to Plot (NTT)	6	
Cross-Sectional Smoothing Parameter (KSA)	0	
Downstream Supercritical Parameter (KSUPC)	0	(subcritical)
Landslide Simulation (KSL)	0	(no)
Number of Lateral Inflow Hydrographs (LQ)	1	
Number of Points in Gate Control Curve (KCG)	0	

CROSS-SECTIONS WHERE HYDROGRAPH REQUESTED :
(maximum allowed = 6)

1 4 6 7 10 14

CHANNEL-VALLEY BOUNDARY CONDITIONS :

Max Discharge at Downstream End (QMAXD, cfs)	.0
Max Lateral Outflow due to Flood Wave (QLL, cfs/ft)	.0000
Initial Time-Step Size (DTHM, hr)	.0800
Time at which Dam Starts to Fail (TFI, hr)	.0000
Theta Weighting Factor (F1I)	.000
Stage Convergence Criterion (EPSY, ft)	.100
Initial Downstream Water Surface Elevation (YDN, ft MSL)	.00
Slope of Channel Downstream of Dam (SOM, ft/mi)	30.0000

CROSS-SECTION NUMBER : 1 SECTION 12S

Cross-Section Location (XS(I), mi)	3.500
Flooding Elevation (FSTG(I), ft MSL)	1450.000
Initial Water Surface Elevation (YD, ft MSL)	.000

DOWNSTREAM REACH NUMBER : 1

Reach Contraction-Expansion Coefficient (FKC)	-.100
Minimum Distance Between Interpolated Cross-Sections (DXM, mi)	.067

CROSS-SECTION and REACH DESCRIPTION :

Elevation HS(K,I) (ft MSL)	Channel Top Width BS(K,I) (ft)	Channel Manning n CM(K,I)	Storage Top Width BSS(K,I) (ft)	Left Top Width BSL(K,I) (ft)	Left Manning n CML(K,I)	Right Top Width BSR(K,I) (ft)	Right Manning n CMR(K,I)
1445.00	.0	.0700	.0	.0	.0000	.0	.0000
1446.50	500.0	.0700	.0	.0	.0000	.0	.0000
1448.00	1000.0	.0700	.0	.0	.0000	.0	.0000
1450.00	5700.0	.0900	.0	.0	.0000	.0	.0000
1454.00	6000.0	.0900	.0	.0	.0000	.0	.0000
1455.00	6200.0	.0900	.0	.0	.0000	.0	.0000
1457.00	8400.0	.0900	.0	.0	.0000	.0	.0000
1458.00	12400.0	.0900	.0	.0	.0000	.0	.0000

CROSS-SECTION NUMBER : 2 SECTION 13S

Cross-Section Location (XS(I), mi)	3.840
Flooding Elevation (FSTG(I), ft MSL)	.000
Initial Water Surface Elevation (YD, ft MSL)	.000

DOWNSTREAM REACH NUMBER : 2

Reach Contraction-Expansion Coefficient (FKC)	.000
Minimum Distance Between Interpolated Cross-Sections (DXM, mi)	.021

CROSS-SECTION and REACH DESCRIPTION :

Elevation HS(K,I) (ft MSL)	Channel Top Width BS(K,I) (ft)	Channel Manning n CM(K,I)	Storage Top Width BSS(K,I) (ft)	Left Top Width BSL(K,I) (ft)	Left Manning n CML(K,I)	Right Top Width BSR(K,I) (ft)	Right Manning n CMR(K,I)
1430.00	.0	.0500	.0	.0	.0000	.0	.0000
1430.50	2000.0	.0500	.0	.0	.0000	.0	.0000
1431.00	4000.0	.0500	.0	.0	.0000	.0	.0000
1436.00	6500.0	.0600	.0	.0	.0000	.0	.0000
1438.00	6800.0	.0600	.0	.0	.0000	.0	.0000
1440.00	7200.0	.0600	.0	.0	.0000	.0	.0000
1444.00	10100.0	.0600	.0	.0	.0000	.0	.0000
1448.00	12800.0	.0700	.0	.0	.0000	.0	.0000

CROSS-SECTION NUMBER : 3 SECTION 14S

Cross-Section Location (XS(I), mi)	4.160
Flooding Elevation (FSTG(I), ft MSL)	1422.000
Initial Water Surface Elevation (YD, ft MSL)	.000

DOWNSTREAM REACH NUMBER : 3

Reach Contraction-Expansion Coefficient (FKC)	.000
Minimum Distance Between Interpolated Cross-Sections (DXM, mi)	.050

CROSS-SECTION and REACH DESCRIPTION :

Elevation HS(K,I) (ft MSL)	Channel Top Width BS(K,I) (ft)	Channel Manning n CM(K,I)	Storage Top Width BSS(K,I) (ft)	Left Top Width BSL(K,I) (ft)	Left Manning n CML(K,I)	Right Top Width BSR(K,I) (ft)	Right Manning n CMR(K,I)
1419.50	.0	.1300	.0	.0	.0000	.0	.0000
1420.00	2500.0	.1300	.0	.0	.0000	.0	.0000
1425.00	3900.0	.1300	.0	.0	.0000	.0	.0000
1427.00	4400.0	.1300	.0	.0	.0000	.0	.0000
1430.00	6100.0	.1200	.0	.0	.0000	.0	.0000
1435.00	6400.0	.1200	.0	.0	.0000	.0	.0000
1436.00	12000.0	.1200	.0	.0	.0000	.0	.0000
1438.00	13000.0	.1100	.0	.0	.0000	.0	.0000

CROSS-SECTION NUMBER : 4 SECTION 15S

Cross-Section Location (XS(I), mi)	4.630
Flooding Elevation (FSTG(I), ft MSL)	.000
Initial Water Surface Elevation (YD, ft MSL)	.000

DOWNSTREAM REACH NUMBER : 4

Reach Contraction-Expansion Coefficient (FKC)	.000
Minimum Distance Between Interpolated Cross-Sections (DXM, mi)	.100

CROSS-SECTION and REACH DESCRIPTION :

Elevation HS(K,I) (ft MSL)	Channel Top Width BS(K,I) (ft)	Channel Manning n CM(K,I)	Storage Top Width BSS(K,I) (ft)	Left Top Width BSL(K,I) (ft)	Left Manning n CML(K,I)	Right Top Width BSR(K,I) (ft)	Right Manning n CMR(K,I)
1404.00	.0	.1300	.0	.0	.0000	.0	.0000
1406.00	1000.0	.1300	.0	.0	.0000	.0	.0000
1408.00	3000.0	.1300	.0	.0	.0000	.0	.0000
1410.00	4800.0	.1300	.0	.0	.0000	.0	.0000
1412.00	5800.0	.1200	.0	.0	.0000	.0	.0000
1414.00	7250.0	.1100	.0	.0	.0000	.0	.0000
1415.00	17000.0	.1400	.0	.0	.0000	.0	.0000
1418.50	18700.0	.1400	.0	.0	.0000	.0	.0000

CROSS-SECTION NUMBER : 5 TRANSITION

Cross-Section Location (XS(I), mi)	5.080
Flooding Elevation (FSTG(I), ft MSL)	.000
Initial Water Surface Elevation (YD, ft MSL)	.000

DOWNSTREAM REACH NUMBER : 5

Reach Contraction-Expansion Coefficient (FKC)	.000
Minimum Distance Between Interpolated Cross-Sections (DXM, mi)	.100

CROSS-SECTION and REACH DESCRIPTION :

Elevation HS(K,I) (ft MSL)	Channel Top Width BS(K,I) (ft)	Channel Manning n CM(K,I)	Storage Top Width BSS(K,I) (ft)	Left Top Width BSL(K,I) (ft)	Left Manning n CML(K,I)	Right Top Width BSR(K,I) (ft)	Right Manning n CMR(K,I)
1393.00	.0	.0500	.0	.0	.0000	.0	.0000
1396.00	750.0	.0800	.0	.0	.0000	.0	.0000
1398.00	4800.0	.1300	.0	.0	.0000	.0	.0000
1399.00	7200.0	.1300	.0	.0	.0000	.0	.0000
1399.50	12200.0	.1300	.0	.0	.0000	.0	.0000
1400.00	17200.0	.1300	.0	.0	.0000	.0	.0000
1404.00	18700.0	.1300	.0	.0	.0000	.0	.0000
1410.00	21200.0	.1300	.0	.0	.0000	.0	.0000

CROSS-SECTION NUMBER : 6 SECTION 16

Cross-Section Location (XS(I), mi) 5.520
Flooding Elevation (FSTG(I), ft MSL) 1387.000
Initial Water Surface Elevation (YD, ft MSL) .000

DOWNSTREAM REACH NUMBER : 6

Reach Contraction-Expansion Coefficient (FKC) .000
Minimum Distance Between Interpolated Cross-Sections (DXM, mi) .050

CROSS-SECTION and REACH DESCRIPTION :

Elevation HS(K,I) (ft MSL)	Channel Top Width BS(K,I) (ft)	Channel Manning n CM(K,I)	Storage Top Width BSS(K,I) (ft)	Left Top Width BSL(K,I) (ft)	Left Manning n CML(K,I)	Right Top Width BSR(K,I) (ft)	Right Manning n CMR(K,I)
1380.00	.0	.0700	.0	.0	.0000	.0	.0000
1383.00	200.0	.0900	.0	.0	.0000	.0	.0000
1385.00	650.0	.1400	.0	.0	.0000	.0	.0000
1385.50	24700.0	.1400	.0	.0	.0000	.0	.0000
1386.00	25000.0	.1400	.0	.0	.0000	.0	.0000
1388.00	26000.0	.1400	.0	.0	.0000	.0	.0000
1390.00	27200.0	.1400	.0	.0	.0000	.0	.0000
1392.00	28700.0	.1400	.0	.0	.0000	.0	.0000

CROSS-SECTION NUMBER : 7 SECTION 17

Cross-Section Location (XS(I), mi)	6.300
Flooding Elevation (FSTG(I), ft MSL)	1367.000
Initial Water Surface Elevation (YD, ft MSL)	.000

DOWNSTREAM REACH NUMBER : 7

Reach Contraction-Expansion Coefficient (FKC)	.200
Minimum Distance Between Interpolated Cross-Sections (DXM, mi)	.010

CROSS-SECTION and REACH DESCRIPTION :

Elevation HS(K,I) (ft MSL)	Channel Top Width BS(K,I) (ft)	Channel Manning n CM(K,I)	Storage Top Width BSS(K,I) (ft)	Left Top Width BSL(K,I) (ft)	Left Manning n CML(K,I)	Right Top Width BSR(K,I) (ft)	Right Manning n CMR(K,I)
1354.00	.0	.1300	.0	.0	.0000	.0	.0000
1358.00	500.0	.1300	.0	.0	.0000	.0	.0000
1360.00	1100.0	.1300	.0	.0	.0000	.0	.0000
1362.00	1630.0	.1300	.0	.0	.0000	.0	.0000
1365.00	25800.0	.1200	.0	.0	.0000	.0	.0000
1366.00	26800.0	.1300	.0	.0	.0000	.0	.0000
1370.00	28000.0	.1400	.0	.0	.0000	.0	.0000
1371.00	28500.0	.1400	.0	.0	.0000	.0	.0000

CROSS-SECTION NUMBER : 8 SECTION 18

Cross-Section Location (XS(I), mi)	7.440
Flooding Elevation (FSTG(I), ft MSL)	1332.000
Initial Water Surface Elevation (YD, ft MSL)	.000

DOWNSTREAM REACH NUMBER : 8

Reach Contraction-Expansion Coefficient (FKC)	.000
Minimum Distance Between Interpolated Cross-Sections (DXM, mi)	.080

CROSS-SECTION and REACH DESCRIPTION :

Elevation HS(K,I) (ft MSL)	Channel Top Width BS(K,I) (ft)	Channel Manning n CM(K,I)	Storage Top Width BSS(K,I) (ft)	Left Top Width BSL(K,I) (ft)	Left Manning n CML(K,I)	Right Top Width BSR(K,I) (ft)	Right Manning n CMR(K,I)
1320.00	.0	.0700	.0	.0	.0000	.0	.0000
1328.00	150.0	.0800	.0	.0	.0000	.0	.0000
1330.00	400.0	.0900	.0	.0	.0000	.0	.0000
1331.00	5900.0	.1000	.0	.0	.0000	.0	.0000
1332.00	7800.0	.1000	.0	.0	.0000	.0	.0000
1335.00	8800.0	.1000	.0	.0	.0000	.0	.0000
1336.00	24200.0	.1000	.0	.0	.0000	.0	.0000
1340.00	24500.0	.1000	.0	.0	.0000	.0	.0000

CROSS-SECTION NUMBER : 9 SECTION 19

Cross-Section Location (XS(I), mi)	8.120
Flooding Elevation (FSTG(I), ft MSL)	1317.000
Initial Water Surface Elevation (YD, ft MSL)	.000

DOWNSTREAM REACH NUMBER : 9

Reach Contraction-Expansion Coefficient (FKC)	.000
Minimum Distance Between Interpolated Cross-Sections (DXM, mi)	.050

CROSS-SECTION and REACH DESCRIPTION :

Elevation HS(K,I) (ft MSL)	Channel Top Width BS(K,I) (ft)	Channel Manning n CM(K,I)	Storage Top Width BSS(K,I) (ft)	Left Top Width BSL(K,I) (ft)	Left Manning n CML(K,I)	Right Top Width BSR(K,I) (ft)	Right Manning n CMR(K,I)
1298.00	.0	.0500	.0	.0	.0000	.0	.0000
1310.00	400.0	.0700	.0	.0	.0000	.0	.0000
1315.00	1800.0	.0700	.0	.0	.0000	.0	.0000
1315.50	24100.0	.1300	.0	.0	.0000	.0	.0000
1317.00	24800.0	.1300	.0	.0	.0000	.0	.0000
1319.00	25500.0	.1200	.0	.0	.0000	.0	.0000
1320.00	26000.0	.1200	.0	.0	.0000	.0	.0000
1321.00	27600.0	.1000	.0	.0	.0000	.0	.0000

CROSS-SECTION NUMBER : 10 SECTION 20

Cross-Section Location (XS(I), mi)	9.070
Flooding Elevation (FSTG(I), ft MSL)	.000
Initial Water Surface Elevation (YD, ft MSL)	.000

DOWNSTREAM REACH NUMBER : 10

Reach Contraction-Expansion Coefficient (FKC)	.000
Minimum Distance Between Interpolated Cross-Sections (DXM, mi)	.056

CROSS-SECTION and REACH DESCRIPTION :

Elevation HS(K,I) (ft MSL)	Channel Top Width BS(K,I) (ft)	Channel Manning n CM(K,I)	Storage Top Width BSS(K,I) (ft)	Left Top Width BSL(K,I) (ft)	Left Manning n CML(K,I)	Right Top Width BSR(K,I) (ft)	Right Manning n CMR(K,I)
1279.00	.0	.0500	.0	.0	.0000	.0	.0000
1290.00	200.0	.0500	.0	.0	.0000	.0	.0000
1291.00	3950.0	.1400	.0	.0	.0000	.0	.0000
1295.00	5300.0	.1400	.0	.0	.0000	.0	.0000
1296.00	16500.0	.1400	.0	.0	.0000	.0	.0000
1300.00	22600.0	.1400	.0	.0	.0000	.0	.0000
1301.00	36400.0	.1500	.0	.0	.0000	.0	.0000
1310.00	36600.0	.1500	.0	.0	.0000	.0	.0000

CROSS-SECTION NUMBER : 11 SECTION 21

Cross-Section Location (XS(I), mi) 9.860
Flooding Elevation (FSTG(I), ft MSL) 1277.000
Initial Water Surface Elevation (YD, ft MSL) .000

DOWNSTREAM REACH NUMBER : 11

Reach Contraction-Expansion Coefficient (FKC) .000
Minimum Distance Between Interpolated Cross-Sections (DXM, mi) .020

CROSS-SECTION and REACH DESCRIPTION :

Elevation HS(K,I) (ft MSL)	Channel Top Width BS(K,I) (ft)	Channel Manning n CM(K,I)	Storage Top Width BSS(K,I) (ft)	Left Top Width BSL(K,I) (ft)	Left Manning n CML(K,I)	Right Top Width BSR(K,I) (ft)	Right Manning n CMR(K,I)
1256.60	.0	.0500	.0	.0	.0000	.0	.0000
1260.00	85.0	.0500	.0	.0	.0000	.0	.0000
1270.00	1600.0	.0500	.0	.0	.0000	.0	.0000
1275.00	3140.0	.0500	.0	.0	.0000	.0	.0000
1275.50	14600.0	.1600	.0	.0	.0000	.0	.0000
1280.00	26800.0	.1500	.0	.0	.0000	.0	.0000
1285.00	41100.0	.1600	.0	.0	.0000	.0	.0000
1290.00	52500.0	.1600	.0	.0	.0000	.0	.0000

CROSS-SECTION NUMBER : 12 SECTION 22

Cross-Section Location (XS(I), mi)	10.470
Flooding Elevation (FSTG(I), ft MSL)	1262.000
Initial Water Surface Elevation (YD, ft MSL)	.000

DOWNSTREAM REACH NUMBER : 12

Reach Contraction-Expansion Coefficient (FKC)	.000
Minimum Distance Between Interpolated Cross-Sections (DXM, mi)	.020

CROSS-SECTION and REACH DESCRIPTION :

Elevation HS(K,I) (ft MSL)	Channel Top Width BS(K,I) (ft)	Channel Manning n CM(K,I)	Storage Top Width BSS(K,I) (ft)	Left Top Width BSL(K,I) (ft)	Left Manning n CML(K,I)	Right Top Width BSR(K,I) (ft)	Right Manning n CMR(K,I)
1246.20	.0	.0500	.0	.0	.0000	.0	.0000
1246.80	58.0	.0600	.0	.0	.0000	.0	.0000
1259.00	255.0	.0800	.0	.0	.0000	.0	.0000
1260.00	520.0	.0800	.0	.0	.0000	.0	.0000
1261.00	8200.0	.1500	.0	.0	.0000	.0	.0000
1265.00	20000.0	.1500	.0	.0	.0000	.0	.0000
1267.00	41000.0	.1500	.0	.0	.0000	.0	.0000
1270.00	44500.0	.1600	.0	.0	.0000	.0	.0000

CROSS-SECTION NUMBER : 13 SECTION 23

Cross-Section Location (XS(I), mi) 11.230
Flooding Elevation (FSTG(I), ft MSL) .000
Initial Water Surface Elevation (YD, ft MSL) .000

DOWNSTREAM REACH NUMBER : 13

Reach Contraction-Expansion Coefficient (FKC) .000
Minimum Distance Between Interpolated Cross-Sections (DXM, mi) .020

CROSS-SECTION and REACH DESCRIPTION :

Elevation HS(K,I) (ft MSL)	Channel Top Width BS(K,I) (ft)	Channel Manning n CM(K,I)	Storage Top Width BSS(K,I) (ft)	Left Top Width BSL(K,I) (ft)	Left Manning n CML(K,I)	Right Top Width BSR(K,I) (ft)	Right Manning n CMR(K,I)
1215.00	.0	.0800	.0	.0	.0000	.0	.0000
1230.20	75.0	.0800	.0	.0	.0000	.0	.0000
1234.00	241.0	.0800	.0	.0	.0000	.0	.0000
1240.00	6870.0	.1500	.0	.0	.0000	.0	.0000
1243.00	16200.0	.1500	.0	.0	.0000	.0	.0000
1245.00	20500.0	.1500	.0	.0	.0000	.0	.0000
1250.00	48000.0	.1500	.0	.0	.0000	.0	.0000
1255.00	50000.0	.1500	.0	.0	.0000	.0	.0000

CROSS-SECTION NUMBER : 14 SECTION 24

Cross-Section Location (XS(I), mi)	11.570
Flooding Elevation (FSTG(I), ft MSL)	.000
Initial Water Surface Elevation (YD, ft MSL)	.000

CROSS-SECTION DESCRIPTION :

Elevation HS(K,I) (ft MSL)	Channel Top Width BS(K,I) (ft)	Storage Top Width BSS(K,I) (ft)	Left Top Width BSL(K,I) (ft)	Right Top Width BSR(K,I) (ft)
1207.00	.0	.0	.0	.0
1208.00	65.0	.0	.0	.0
1210.00	195.0	.0	.0	.0
1220.00	235.0	.0	.0	.0
1230.00	6565.0	.0	.0	.0
1231.00	23200.0	.0	.0	.0
1235.00	31400.0	.0	.0	.0
1240.00	51700.0	.0	.0	.0

WARNING: At cross-section reach 5 the distance between interpolated cross-sections (DXM) should be changed to .076 due to expansion/contraction criteria

WARNING: At cross-section reach 13 the distance between interpolated cross-sections (DXM) should be changed to .017 due to expansion/contraction criteria

DISTANCE BETWEEN INTERPOLATED CROSS-SECTIONS
(DXM) THAT WILL BE USED IN COMPUTATIONS :

Down Stream Reach Number I=1,NS1	Interp. Cross Section Distance DXM(I) (mi)
1	.0670
2	.0210
3	.0500
4	.1000
5	.1000
6	.0500
7	.0100
8	.0800
9	.0500
10	.0560
11	.0200
12	.0200
13	.0200

LATERAL INFLOW REACH NUMBER

LQX(I)

4

(QL(L, 1),L=1,ITEH)

3770.	3780.	4110.	14440.	57100.	39970.	17840.	8860.
4240.	3800.	3800.	3800.	3800.			

Total number of cross-sections (original+interpolated) 293

Maximum number of cross-sections allowed 300

OUTPUT DATA SUMMARY :

CROSS-SECTION and REACH SUMMARY :

Cross Section Number	Cross Section Location (mi)	Bottom Elevation (ft MSL)	Reach Number	Reach Length (mi)	Reach Slope (ft/mi)
1	3.500	1445.000			
2	3.840	1430.000	1	.340	44.118
3	4.160	1419.500	2	.320	32.813
4	4.630	1404.000	3	.470	32.979
5	5.080	1393.000	4	.450	24.444
6	5.520	1380.000	5	.440	29.545
7	6.300	1354.000	6	.780	33.333
8	7.440	1320.000	7	1.140	29.825
9	8.120	1298.000	8	.680	32.353
10	9.070	1279.000	9	.950	20.000
11	9.860	1256.600	10	.790	28.354
12	10.470	1246.200	11	.610	17.049
13	11.230	1215.000	12	.760	41.053
14	11.570	1207.000	13	.340	23.529

SLOPE INFORMATION FOR CROSS-SECTION REACHES :

Reach Number Section I	Water Surface Elevation YO (ft MSL)	Hydraulic Depth DA (ft)	Reach Bottom Slope SO (ft/m)	Dynamic Slope DS (ft/m)	Total Slope SOT (ft/m)	Critical Slope SC (ft/m)	Manning n CMN
1	1437.50	.17	44.12	.01	44.13	674.54	.070
1	1438.50	.35	44.12	.01	44.13	535.38	.070
1	1439.50	.70	44.12	.01	44.13	424.93	.070
1	1443.00	2.99	44.12	.02	44.14	261.96	.070
1	1446.00	5.71	44.12	.03	44.14	211.03	.070
1	1447.50	6.96	44.12	.03	44.15	260.93	.080
1	1450.50	7.70	44.12	.03	44.15	315.85	.090
1	1453.00	7.88	44.12	.04	44.15	313.39	.090
2	1424.75	.13	32.81	.01	32.82	385.00	.050
2	1425.25	.25	32.81	.01	32.82	305.57	.050
2	1428.00	2.36	32.81	.02	32.83	144.64	.050
2	1431.50	4.88	32.81	.02	32.83	120.08	.051
2	1434.00	6.37	32.81	.02	32.84	132.72	.057
2	1437.50	9.37	32.81	.03	32.84	131.47	.060
2	1440.00	7.75	32.81	.03	32.84	140.07	.060
2	1443.00	9.38	32.81	.03	32.84	131.43	.060
3	1411.75	.23	32.98	.02	33.00	2117.35	.130
3	1413.00	.46	32.98	.02	33.00	1680.54	.130
3	1416.50	3.13	32.98	.04	33.02	889.22	.130
3	1418.50	4.10	32.98	.05	33.02	813.01	.130
3	1421.00	5.38	32.98	.05	33.03	742.44	.130
3	1424.50	7.94	32.98	.06	33.04	652.30	.130
3	1425.50	4.47	32.98	.05	33.03	789.82	.130
3	1428.25	6.85	32.98	.05	33.03	608.85	.123
4	1398.50	.61	24.44	.03	24.47	1536.79	.130
4	1401.00	1.21	24.44	.04	24.48	1219.75	.130
4	1403.00	1.50	24.44	.04	24.48	1137.60	.130
4	1404.50	2.12	24.44	.04	24.49	1012.51	.130
4	1405.75	2.27	24.44	.04	24.49	989.63	.130
4	1407.00	2.51	24.44	.05	24.49	957.76	.130
4	1409.50	4.07	24.44	.05	24.50	755.72	.125
4	1414.25	8.21	24.44	.07	24.52	748.23	.140
5	1386.50	.75	29.55	.01	29.56	211.87	.050
5	1389.50	1.50	29.55	.01	29.56	168.16	.050
5	1391.50	1.44	29.55	.01	29.56	179.27	.051
5	1392.25	.63	29.55	.01	29.56	309.69	.059
5	1392.75	1.01	29.55	.02	29.56	312.27	.064
5	1394.00	2.22	29.55	.02	29.57	343.32	.076
5	1397.00	4.81	29.55	.05	29.60	770.89	.130
5	1401.00	7.94	29.55	.06	29.61	652.19	.130
6	1367.00	.93	33.33	.02	33.35	386.74	.070
6	1370.50	1.86	33.33	.02	33.35	306.95	.070
6	1372.50	2.14	33.33	.02	33.35	292.65	.070
6	1373.75	.49	33.33	.01	33.35	479.63	.070
6	1375.50	1.31	33.33	.02	33.35	345.10	.070
6	1377.00	2.72	33.33	.02	33.36	270.25	.070
6	1380.00	5.55	33.33	.03	33.36	249.28	.076
6	1381.50	6.83	33.33	.04	33.37	297.41	.086
7	1337.00	1.23	29.83	.03	29.86	1214.28	.130
7	1343.00	2.46	29.83	.04	29.87	963.78	.130
7	1345.00	2.50	29.83	.04	29.87	958.81	.130
7	1346.50	1.28	29.83	.03	29.86	1198.86	.130
7	1348.50	1.72	29.83	.04	29.86	1087.14	.130
7	1350.50	3.06	29.83	.04	29.87	896.64	.130
7	1353.00	4.50	29.83	.05	29.88	788.18	.130
7	1355.50	6.80	29.83	.06	29.88	686.76	.130
8	1309.00	2.73	32.35	.02	32.37	270.05	.070
8	1319.00	5.45	32.35	.03	32.38	217.13	.070
8	1322.50	4.11	32.35	.03	32.38	268.14	.075
8	1323.25	.62	32.35	.01	32.37	515.50	.076
8	1324.50	1.91	32.35	.02	32.37	369.25	.077
8	1327.00	4.01	32.35	.03	32.38	314.76	.081
8	1328.00	3.58	32.35	.03	32.38	364.95	.085
8	1330.50	5.83	32.35	.04	32.39	427.78	.100
9	1288.50	2.92	20.00	.02	20.02	134.73	.050
9	1300.00	5.83	20.00	.03	20.03	125.54	.054
9	1303.00	1.93	20.00	.02	20.02	216.80	.059
9	1305.25	1.23	20.00	.02	20.02	285.03	.063
9	1306.50	2.02	20.00	.02	20.02	257.41	.065
9	1309.50	4.41	20.00	.03	20.03	230.08	.070
9	1310.50	4.28	20.00	.03	20.03	232.30	.070
9	1315.50	9.70	20.00	.08	20.08	610.19	.130
10	1267.80	2.18	28.35	.02	28.37	148.39	.050
10	1275.00	4.37	28.35	.02	28.38	117.77	.050

10	1280.50	2.12	28.35	.02	28.37	149.94	.050
10	1285.00	4.99	28.35	.02	28.38	112.67	.050
10	1285.75	1.85	28.35	.02	28.37	156.91	.050
10	1290.00	4.63	28.35	.05	28.40	698.57	.123
10	1293.00	5.52	28.35	.06	28.41	853.80	.140
10	1300.00	11.12	28.35	.08	28.43	737.94	.146
11	1251.40	.57	17.05	.01	17.06	232.71	.050
11	1253.40	1.13	17.05	.02	17.07	184.70	.050
11	1264.50	5.66	17.05	.03	17.08	108.03	.050
11	1267.50	6.21	17.05	.03	17.08	104.72	.050
11	1268.25	1.38	17.05	.02	17.07	172.79	.050
11	1272.50	3.87	17.05	.02	17.07	122.62	.050
11	1276.00	5.02	17.05	.08	17.13	1127.88	.158
11	1280.00	7.98	17.05	.09	17.14	872.82	.151
12	1230.60	2.21	41.05	.01	41.07	147.82	.050
12	1238.50	4.42	41.05	.02	41.07	117.33	.050
12	1246.50	6.24	41.05	.02	41.08	145.40	.059
12	1250.00	3.36	41.05	.02	41.07	221.64	.066
12	1252.00	2.61	41.05	.02	41.07	265.84	.069
12	1255.00	3.87	41.05	.02	41.08	267.95	.074
12	1258.50	4.37	41.05	.03	41.08	299.24	.080
12	1262.50	8.07	41.05	.06	41.11	863.82	.150
13	1211.00	2.15	23.53	.03	23.55	381.72	.080
13	1219.10	4.30	23.53	.03	23.56	302.97	.080
13	1222.00	3.36	23.53	.03	23.56	329.18	.080
13	1230.00	3.51	23.53	.03	23.56	324.23	.080
13	1236.50	4.11	23.53	.05	23.58	654.54	.117
13	1238.00	3.32	23.53	.05	23.58	924.59	.134
13	1242.50	5.36	23.53	.07	23.60	989.96	.150
13	1247.50	8.64	23.53	.08	23.61	844.42	.150

Number of Intermediate Cross-Sections (NN(NS)) 293

Number of Time Steps (NNU) 13

INITIAL CONDITIONS TABLE :

Cross Section Number I	Cross Section Location XI (mi)	Normal Flow Water Elevation YN (ft MSL)	Normal Flow Depth DEPN (ft)	Critical Flow Water Elevation YC (ft MSL)	Critical Flow Depth DEPC (ft)	Froude Indicator (0 = sub) (1 = sup) IFR	Iteration Count for Computing Nrml Dpth ITN
1	3.500	1448.70	3.70	1447.24	2.24	0	10
2	3.568	1444.66	2.66	1443.74	1.74	0	10
3	3.636	1441.19	2.19	1440.44	1.44	0	10
4	3.704	1437.85	1.85	1437.21	1.21	0	10
5	3.772	1434.55	1.55	1434.00	1.00	0	10
6	3.840	1431.34	1.34	1430.83	.83	0	10
7	3.861	1430.54	1.24	1430.12	.82	0	10
8	3.883	1429.84	1.24	1429.42	.82	0	10
9	3.904	1429.15	1.25	1428.72	.82	0	10
10	3.925	1428.45	1.25	1428.01	.81	0	10
11	3.947	1427.73	1.23	1427.31	.81	0	10
12	3.968	1427.04	1.24	1426.59	.79	0	10
13	3.989	1426.32	1.22	1425.89	.79	0	10
14	4.011	1425.62	1.22	1425.18	.78	0	10
15	4.032	1424.91	1.21	1424.48	.78	0	10
16	4.053	1424.19	1.19	1423.78	.78	0	10
17	4.075	1423.49	1.19	1423.06	.76	0	10
18	4.096	1422.78	1.18	1422.36	.76	0	10
19	4.117	1422.08	1.18	1421.67	.77	0	10
20	4.139	1421.36	1.16	1420.95	.75	0	10
21	4.160	1420.67	1.17	1420.25	.75	0	10
22	4.212	1419.78	2.00	1418.63	.86	0	10
23	4.264	1418.23	2.18	1417.03	.97	0	10
24	4.317	1416.67	2.34	1415.41	1.08	0	10
25	4.369	1415.13	2.52	1413.81	1.20	0	10
26	4.421	1413.61	2.73	1412.20	1.31	0	10
27	4.473	1412.11	2.95	1410.61	1.45	0	10
28	4.526	1410.64	3.19	1409.01	1.57	0	10
29	4.578	1409.16	3.44	1407.45	1.73	0	10
30	4.630	1407.89	3.89	1405.90	1.90	0	10
31	4.742	1406.04	4.79	1403.87	2.62	0	10
32	4.855	1403.46	4.96	1401.35	2.85	0	10
33	4.967	1400.91	5.16	1398.84	3.09	0	10
34	5.080	1398.24	5.24	1396.36	3.36	0	10
35	5.190	1395.45	5.70	1393.33	3.58	0	10
36	5.300	1392.34	5.84	1390.33	3.83	0	10
37	5.410	1389.08	5.83	1387.45	4.20	0	10
38	5.520	1385.77	5.77	1385.28	5.28	0	10
39	5.572	1384.19	5.92	1383.22	4.96	0	10
40	5.624	1382.59	6.06	1381.96	5.42	0	10
41	5.676	1381.00	6.20	1379.63	4.83	0	10
42	5.728	1379.40	6.33	1377.84	4.77	0	10
43	5.780	1377.80	6.47	1376.05	4.72	0	10
44	5.832	1376.21	6.61	1374.27	4.67	0	10
45	5.884	1374.62	6.75	1372.48	4.61	0	10
46	5.936	1373.03	6.90	1370.70	4.56	0	10
47	5.988	1371.44	7.04	1368.92	4.52	0	10
48	6.040	1369.86	7.19	1367.14	4.47	0	10
49	6.092	1368.28	7.35	1365.35	4.41	0	10

Cross Section Number I	Cross Section Location XI (mi)	Normal Flow Water Elevation YN (ft MSL)	Normal Flow Depth DEPN (ft)	Critical Flow Water Elevation YC (ft MSL)	Critical Flow Depth DEPC (ft)	Froude Indicator (0 = sub) (1 = sup) IFR	Iteration Count for Computing Nrml Dpth ITN
50	6.144	1366.71	7.51	1363.57	4.37	0	10
51	6.196	1365.19	7.73	1361.77	4.30	0	10
52	6.248	1363.54	7.80	1359.99	4.26	0	10
53	6.300	1362.91	8.91	1358.19	4.19	0	10
54	6.310	1362.51	8.80	1357.92	4.21	0	10
55	6.320	1362.24	8.83	1357.64	4.24	0	10
56	6.330	1361.95	8.85	1357.37	4.26	0	10
57	6.340	1361.69	8.88	1357.09	4.28	0	10
58	6.350	1361.40	8.89	1356.82	4.31	0	10
59	6.360	1361.12	8.91	1356.54	4.33	0	10
60	6.370	1360.85	8.94	1356.27	4.35	0	10
61	6.380	1360.56	8.95	1355.99	4.38	0	10
62	6.390	1360.30	8.98	1355.72	4.40	0	10
63	6.400	1360.01	8.99	1355.43	4.41	0	10
64	6.410	1359.74	9.02	1355.15	4.43	0	10
65	6.420	1359.46	9.04	1354.88	4.46	0	10
66	6.430	1359.19	9.07	1354.60	4.48	0	10
67	6.440	1358.91	9.08	1354.33	4.50	0	10
68	6.450	1358.64	9.11	1354.05	4.53	0	10
69	6.460	1358.36	9.13	1353.78	4.55	0	10
70	6.470	1358.09	9.16	1353.50	4.57	0	10
71	6.480	1357.80	9.17	1353.23	4.60	0	10
72	6.490	1357.52	9.19	1352.97	4.64	0	10
73	6.500	1357.25	9.22	1352.70	4.66	0	10
74	6.510	1356.98	9.25	1352.42	4.69	0	10
75	6.520	1356.70	9.26	1352.15	4.71	0	10
76	6.530	1356.43	9.29	1351.88	4.74	0	10
77	6.540	1356.15	9.31	1351.60	4.76	0	10
78	6.550	1355.88	9.34	1351.35	4.80	0	10
79	6.560	1355.60	9.35	1351.07	4.83	0	10
80	6.570	1355.33	9.38	1350.80	4.85	0	10
81	6.580	1355.05	9.40	1350.52	4.88	0	10
82	6.590	1354.78	9.43	1350.25	4.90	0	10
83	6.600	1354.49	9.44	1349.99	4.94	0	10
84	6.610	1354.23	9.47	1349.72	4.97	0	10
85	6.620	1353.94	9.49	1349.45	4.99	0	10
86	6.630	1353.68	9.52	1349.17	5.02	0	10
87	6.640	1353.41	9.55	1348.92	5.06	0	10
88	6.650	1353.13	9.56	1348.65	5.08	0	10
89	6.660	1352.86	9.60	1348.37	5.11	0	10
90	6.670	1352.57	9.61	1348.10	5.13	0	10
91	6.680	1352.31	9.64	1347.84	5.18	0	10
92	6.690	1352.02	9.66	1347.57	5.20	0	10
93	6.700	1351.76	9.69	1347.30	5.23	0	10
94	6.710	1351.49	9.72	1347.04	5.27	0	10
95	6.720	1351.21	9.73	1346.77	5.30	0	10
96	6.730	1350.94	9.77	1346.50	5.32	0	10
97	6.740	1350.67	9.80	1346.24	5.36	0	10
98	6.750	1350.39	9.81	1345.97	5.39	0	10
99	6.760	1350.12	9.84	1345.70	5.42	0	10

Cross Section Number I	Cross Section Location XI (mi)	Normal Flow Water Elevation YN (ft MSL)	Normal Flow Depth DEPN (ft)	Critical Flow Water Elevation YC (ft MSL)	Critical Flow Depth DEPC (ft)	Froude Indicator (0 = sub) (1 = sup) IFR	Iteration Count for Computing Nrml Dpth ITN
100	6.770	1349.84	9.86	1345.44	5.46	0	10
101	6.780	1349.57	9.89	1345.17	5.48	0	10
102	6.790	1349.31	9.92	1344.90	5.51	0	10
103	6.800	1349.02	9.94	1344.64	5.55	0	10
104	6.810	1348.76	9.97	1344.37	5.58	0	10
105	6.820	1348.47	9.98	1344.11	5.62	0	10
106	6.830	1348.21	10.01	1343.84	5.65	0	10
107	6.840	1347.94	10.05	1343.59	5.69	0	10
108	6.850	1347.66	10.06	1343.32	5.72	0	10
109	6.860	1347.39	10.09	1343.06	5.76	0	10
110	6.870	1347.13	10.13	1342.79	5.79	0	10
111	6.880	1346.84	10.14	1342.54	5.83	0	10
112	6.890	1346.58	10.17	1342.26	5.86	0	10
113	6.900	1346.31	10.21	1342.01	5.91	0	10
114	6.910	1346.03	10.22	1341.74	5.93	0	10
115	6.920	1345.76	10.25	1341.49	5.98	0	10
116	6.930	1345.50	10.29	1341.21	6.00	0	10
117	6.940	1345.21	10.30	1340.96	6.05	0	10
118	6.950	1344.95	10.33	1340.71	6.09	0	10
119	6.960	1344.66	10.35	1340.44	6.12	0	10
120	6.970	1344.40	10.38	1340.18	6.17	0	10
121	6.980	1344.13	10.41	1339.93	6.21	0	10
122	6.990	1343.85	10.43	1339.66	6.24	0	10
123	7.000	1343.58	10.46	1339.41	6.28	0	10
124	7.010	1343.32	10.49	1339.15	6.33	0	10
125	7.020	1343.03	10.51	1338.90	6.38	0	10
126	7.030	1342.77	10.54	1338.63	6.40	0	10
127	7.040	1342.50	10.57	1338.38	6.45	0	10
128	7.050	1342.22	10.59	1338.13	6.49	0	10
129	7.060	1341.96	10.62	1337.87	6.54	0	10
130	7.070	1341.69	10.66	1337.62	6.59	0	10
131	7.080	1341.41	10.67	1337.37	6.63	0	10
132	7.090	1341.14	10.70	1337.12	6.68	0	10
133	7.100	1340.88	10.74	1336.87	6.73	0	10
134	7.110	1340.59	10.75	1336.61	6.77	0	10
135	7.120	1340.33	10.79	1336.36	6.82	0	10
136	7.130	1340.06	10.82	1336.11	6.87	0	10
137	7.140	1339.78	10.83	1335.86	6.91	0	10
138	7.150	1339.52	10.87	1335.61	6.96	0	10
139	7.160	1339.25	10.90	1335.36	7.01	0	10
140	7.170	1338.97	10.92	1335.13	7.07	0	10
141	7.180	1338.70	10.95	1334.93	7.18	0	10
142	7.190	1338.42	10.96	1334.74	7.28	0	10
143	7.200	1338.16	11.00	1334.52	7.37	0	10
144	7.210	1337.89	11.03	1334.31	7.45	0	10
145	7.220	1337.61	11.05	1334.10	7.54	0	10
146	7.230	1337.34	11.08	1333.87	7.61	0	10
147	7.240	1337.08	11.12	1333.66	7.69	0	10
148	7.250	1336.80	11.13	1333.45	7.78	0	10
149	7.260	1336.53	11.16	1333.21	7.85	0	10

Cross Section Number I	Cross Section Location XI (mi)	Normal Flow Water Elevation YN (ft MSL)	Normal Flow Depth DEPN (ft)	Critical Flow Water Elevation YC (ft MSL)	Critical Flow Depth DEPC (ft)	Froude Indicator (0 = sub) (1 = sup) IFR	Iteration Count for Computing Nrml Dpth ITN
150	7.270	1336.27	11.20	1333.00	7.93	0	10
151	7.280	1335.99	11.21	1332.79	8.02	0	10
152	7.290	1335.72	11.25	1332.56	8.09	0	10
153	7.300	1335.46	11.28	1332.35	8.18	0	10
154	7.310	1335.17	11.30	1332.12	8.25	0	10
155	7.320	1334.91	11.33	1331.91	8.33	0	10
156	7.330	1334.63	11.35	1331.70	8.42	0	10
157	7.340	1334.36	11.38	1331.47	8.49	0	10
158	7.350	1334.10	11.42	1331.26	8.58	0	10
159	7.360	1333.82	11.43	1332.41	10.02	0	10
160	7.370	1333.55	11.47	1332.18	10.09	0	10
161	7.380	1333.29	11.50	1331.95	10.16	0	10
162	7.390	1333.01	11.52	1331.71	10.22	0	10
163	7.400	1332.74	11.55	1330.18	8.99	0	10
164	7.410	1332.46	11.57	1329.97	9.08	0	10
165	7.420	1332.20	11.60	1329.76	9.17	0	10
166	7.430	1331.93	11.64	1329.55	9.26	0	10
167	7.440	1331.61	11.61	1329.33	9.33	0	10
168	7.525	1329.32	12.07	1325.66	8.41	0	11
169	7.610	1327.26	12.76	1322.57	8.07	0	11
170	7.695	1325.25	13.50	1319.56	7.81	0	11
171	7.780	1321.77	12.77	1316.59	7.60	0	11
172	7.865	1318.97	12.72	1313.67	7.42	0	11
173	7.950	1316.04	12.54	1310.77	7.27	0	11
174	8.035	1311.71	10.96	1307.89	7.14	0	11
175	8.120	1315.37	17.37	1305.04	7.04	0	11
176	8.170	1308.29	11.29	1304.10	7.10	0	11
177	8.220	1307.40	11.40	1303.17	7.17	0	11
178	8.270	1308.12	13.12	1302.23	7.23	0	11
179	8.320	1307.34	13.34	1301.30	7.30	0	11
180	8.370	1306.47	13.47	1300.37	7.37	0	11
181	8.420	1305.54	13.54	1299.45	7.45	0	11
182	8.470	1304.59	13.59	1298.53	7.53	0	11
183	8.520	1303.59	13.59	1297.62	7.62	0	11
184	8.570	1302.58	13.58	1296.71	7.71	0	11
185	8.620	1301.56	13.56	1295.81	7.81	0	11
186	8.670	1300.51	13.51	1294.90	7.90	0	11
187	8.720	1299.46	13.46	1294.01	8.01	0	11
188	8.770	1298.38	13.38	1293.13	8.13	0	11
189	8.820	1297.30	13.30	1292.25	8.25	0	11
190	8.870	1296.19	13.19	1291.37	8.37	0	11
191	8.920	1295.10	13.10	1290.50	8.50	0	11
192	8.970	1293.97	12.97	1289.64	8.64	0	11
193	9.020	1292.83	12.83	1291.47	11.47	0	11
194	9.070	1291.56	12.56	1287.97	8.97	0	11
195	9.126	1290.31	12.91	1286.33	8.93	0	11
196	9.183	1288.56	12.76	1284.70	8.90	0	11
197	9.239	1286.78	12.58	1284.44	10.24	0	11
198	9.296	1284.98	12.39	1282.45	9.85	0	11
199	9.352	1283.03	12.03	1280.47	9.47	0	11

Cross Section Number I	Cross Section Location XI (mi)	Normal Flow Water Elevation YN (ft MSL)	Normal Flow Depth DEPN (ft)	Critical Flow Water Elevation YC (ft MSL)	Critical Flow Depth DEPC (ft)	Froude Indicator (0 = sub) (1 = sup) IFR	Iteration Count for Computing Nrml Dpth ITN
200	9.409	1281.07	11.67	1278.48	9.08	0	11
201	9.465	1279.13	11.33	1276.50	8.70	0	11
202	9.521	1277.21	11.01	1274.55	8.35	0	11
203	9.578	1275.32	10.72	1272.58	7.98	0	11
204	9.634	1273.44	10.44	1270.64	7.64	0	11
205	9.691	1271.59	10.19	1268.71	7.31	0	11
206	9.747	1269.78	9.98	1266.80	7.00	0	11
207	9.804	1268.01	9.81	1264.89	6.69	0	11
208	9.860	1267.01	10.41	1263.02	6.42	0	11
209	9.880	1264.69	8.44	1262.63	6.37	0	11
210	9.901	1264.33	8.42	1262.23	6.33	0	11
211	9.921	1263.96	8.40	1261.86	6.30	0	11
212	9.941	1263.60	8.38	1261.46	6.25	0	11
213	9.962	1263.24	8.38	1261.09	6.22	0	11
214	9.982	1262.89	8.37	1260.69	6.17	0	11
215	10.002	1262.53	8.36	1260.31	6.14	0	11
216	10.023	1262.18	8.35	1259.95	6.12	0	11
217	10.043	1261.83	8.35	1259.57	6.09	0	11
218	10.063	1261.49	8.35	1259.19	6.05	0	11
219	10.084	1261.15	8.37	1258.82	6.03	0	11
220	10.104	1260.82	8.38	1258.45	6.01	0	11
221	10.124	1260.50	8.40	1258.10	6.00	0	11
222	10.145	1260.17	8.42	1257.74	5.99	0	11
223	10.165	1259.86	8.46	1257.38	5.98	0	11
224	10.185	1259.55	8.50	1257.03	5.97	0	11
225	10.206	1259.25	8.54	1256.68	5.97	0	11
226	10.226	1258.96	8.60	1256.35	5.99	0	11
227	10.246	1258.68	8.66	1256.01	6.00	0	11
228	10.267	1258.41	8.75	1255.68	6.02	0	11
229	10.287	1258.16	8.84	1255.37	6.05	0	11
230	10.307	1257.92	8.95	1255.07	6.09	0	11
231	10.328	1257.70	9.07	1254.76	6.13	0	11
232	10.348	1257.50	9.22	1254.48	6.20	0	11
233	10.368	1257.33	9.39	1254.22	6.28	0	11
234	10.389	1257.18	9.59	1253.96	6.37	0	11
235	10.409	1257.07	9.83	1253.74	6.50	0	11
236	10.429	1257.02	10.13	1253.53	6.64	0	11
237	10.450	1257.03	10.49	1253.37	6.82	0	11
238	10.470	1255.17	8.97	1253.26	7.06	0	11
239	10.490	1256.54	11.16	1252.71	7.33	0	11
240	10.510	1256.00	11.44	1252.16	7.60	0	11
241	10.530	1255.46	11.73	1251.60	7.87	0	11
242	10.550	1254.91	12.00	1251.04	8.13	0	11
243	10.570	1254.37	12.28	1250.48	8.39	0	11
244	10.590	1253.83	12.55	1249.93	8.66	0	11
245	10.610	1253.29	12.84	1249.37	8.91	0	11
246	10.630	1252.75	13.12	1248.81	9.17	0	11
247	10.650	1252.20	13.39	1248.25	9.44	0	11
248	10.670	1251.66	13.67	1247.68	9.69	0	11
249	10.690	1251.11	13.95	1247.12	9.95	0	11

Cross Section Number I	Cross Section Location XI (mi)	Normal Flow Water Elevation YN (ft MSL)	Normal Flow Depth DEPN (ft)	Critical Flow Water Elevation YC (ft MSL)	Critical Flow Depth DEPC (ft)	Froude Indicator (0 = sub) (1 = sup) IFR	Iteration Count for Computing Nrml Dpth ITN
250	10.710	1250.57	14.23	1246.56	10.22	0	11
251	10.730	1250.03	14.51	1246.01	10.48	0	11
252	10.750	1249.49	14.79	1245.44	10.73	0	11
253	10.770	1248.94	15.06	1244.86	10.98	0	11
254	10.790	1250.28	17.22	1244.30	11.24	0	11
255	10.810	1249.64	17.40	1243.73	11.48	0	11
256	10.830	1248.99	17.57	1243.17	11.75	0	11
257	10.850	1248.35	17.75	1242.59	11.99	0	11
258	10.870	1247.70	17.92	1242.02	12.24	0	11
259	10.890	1247.05	18.10	1241.44	12.48	0	11
260	10.910	1246.40	18.27	1240.88	12.74	0	11
261	10.930	1245.75	18.44	1240.29	12.97	0	11
262	10.950	1245.11	18.62	1239.71	13.22	0	11
263	10.970	1244.46	18.79	1239.14	13.47	0	11
264	10.990	1243.82	18.97	1238.56	13.70	0	11
265	11.010	1243.16	19.13	1237.97	13.94	0	11
266	11.030	1242.52	19.31	1237.39	14.18	0	11
267	11.050	1241.87	19.49	1236.79	14.40	0	11
268	11.070	1241.21	19.64	1236.19	14.62	0	11
269	11.090	1240.57	19.82	1235.59	14.85	0	11
270	11.110	1239.92	19.99	1235.00	15.07	0	11
271	11.130	1239.27	20.16	1234.39	15.28	0	11
272	11.150	1238.62	20.34	1233.76	15.47	0	11
273	11.170	1237.97	20.50	1233.13	15.66	0	11
274	11.190	1237.33	20.69	1232.46	15.82	0	11
275	11.210	1236.68	20.86	1231.75	15.93	0	11
276	11.230	1236.40	21.40	1230.81	15.81	0	11
277	11.250	1235.53	21.00	1230.39	15.86	0	11
278	11.270	1234.25	20.19	1229.52	15.47	0	11
279	11.290	1232.96	19.37	1228.57	14.98	0	11
280	11.310	1231.69	18.57	1227.55	14.43	0	11
281	11.330	1230.42	17.78	1226.49	13.85	0	11
282	11.350	1229.17	17.00	1226.28	14.10	0	11
283	11.370	1227.94	16.23	1225.00	13.29	0	11
284	11.390	1226.73	15.49	1223.70	12.47	0	11
285	11.410	1225.55	14.79	1222.40	11.63	0	11
286	11.430	1224.39	14.10	1221.11	10.82	0	11
287	11.450	1223.29	13.47	1219.84	10.02	0	11
288	11.470	1222.25	12.90	1218.55	9.20	0	11
289	11.490	1221.29	12.41	1217.30	8.42	0	11
290	11.510	1220.47	12.06	1216.06	7.65	0	11
291	11.530	1219.91	11.97	1214.84	6.90	0	11
292	11.550	1219.86	12.39	1213.66	6.19	0	11
293	11.570	1223.25	16.25	1212.47	5.47	0	11

SUMMARY OF INITIAL DOWNSTREAM BOUNDARY CONDITIONS :

Cross-section Number at Downstream End of Model (IN)	293
Initial Water Surface Elev. at Downstream End (YNN, ft MSL)	1223.250
Initial Flow Depth at Downstream End (DEP, ft)	16.250

COMPUTED STEP BACKWATER TABLE :

Cross Section Number I	Cross Section Location X (mi)	Flow QIL (cfs)	Backwater Water Surface Elevation YIL (ft MSL)	Backwater Water Depth DEP (ft)	Iteration Count for Computing Backwater ITB
292	11.550	8770.0	1223.602	16.132	4
291	11.530	8770.0	1223.819	15.878	4
290	11.510	8770.0	1223.975	15.564	4
289	11.490	8770.0	1224.107	15.225	4
288	11.470	8770.0	1224.246	14.894	4
287	11.450	8770.0	1224.435	14.612	4
286	11.430	8770.0	1224.727	14.433	4
285	11.410	8770.0	1225.210	14.446	4
284	11.390	8770.0	1225.988	14.753	4
283	11.370	8770.0	1227.050	15.345	4
282	11.350	8770.0	1228.264	16.088	4
281	11.330	8770.0	1229.532	16.885	4
280	11.310	8770.0	1230.819	17.702	4
279	11.290	8770.0	1232.119	18.531	4
278	11.270	8770.0	1233.427	19.369	4
277	11.250	8770.0	1234.743	20.214	4
276	11.230	8770.0	1236.065	21.066	4
275	11.210	8770.0	1236.802	20.982	5
274	11.190	8770.0	1237.476	20.835	5
273	11.170	8770.0	1238.134	20.672	5
272	11.150	8770.0	1238.787	20.503	5
271	11.130	8770.0	1239.438	20.333	5
270	11.110	8770.0	1240.088	20.162	5
269	11.090	8770.0	1240.739	19.992	5
268	11.070	8770.0	1241.389	19.821	5
267	11.050	8770.0	1242.039	19.650	5
266	11.030	8770.0	1242.688	19.479	5
265	11.010	8770.0	1243.338	19.307	5
264	10.990	8770.0	1243.988	19.136	5
263	10.970	8770.0	1244.638	18.964	5
262	10.950	8770.0	1245.287	18.793	5
261	10.930	8770.0	1245.938	18.623	4
260	10.910	8770.0	1246.587	18.450	5
259	10.890	8770.0	1247.235	18.278	5
258	10.870	8770.0	1247.884	18.106	5
257	10.850	8770.0	1248.533	17.934	5
256	10.830	8770.0	1249.182	17.762	5
255	10.810	8770.0	1249.831	17.589	5
254	10.790	8770.0	1250.480	17.417	5
253	10.770	8770.0	1251.128	17.244	4
252	10.750	8770.0	1251.776	17.072	5
251	10.730	8770.0	1252.425	16.899	5

Cross Section Number I	Cross Section Location X (mi)	Flow QIL (cfs)	Backwater Water Surface Elevation YIL (ft MSL)	Backwater Water Depth DEP (ft)	Iteration Count for Computing Backwater ITB
250	10.710	8770.0	1253.073	16.726	5
249	10.690	8770.0	1253.721	16.552	5
248	10.670	8770.0	1254.368	16.378	6
247	10.650	8770.0	1255.014	16.204	6
246	10.630	8770.0	1255.660	16.029	7
245	10.610	8770.0	1256.305	15.853	12
244	10.590	8770.0	1257.488	16.215	5
243	10.570	8770.0	1258.570	16.475	5
242	10.550	8770.0	1259.295	16.379	5
241	10.530	8770.0	1259.867	16.130	5
240	10.510	8770.0	1260.421	15.863	4
239	10.490	8770.0	1260.967	15.588	4
238	10.470	8770.0	1261.510	15.310	4
237	10.450	8770.0	1262.048	15.501	4
236	10.429	8770.0	1262.502	15.609	5
235	10.409	8770.0	1262.940	15.700	4
234	10.389	8770.0	1263.371	15.784	4
233	10.368	8770.0	1263.800	15.867	4
232	10.348	8770.0	1264.230	15.950	4
231	10.328	8770.0	1264.659	16.033	4
230	10.307	8770.0	1265.090	16.116	4
229	10.287	8770.0	1265.520	16.200	4
228	10.267	8770.0	1265.952	16.285	4
227	10.246	8770.0	1266.384	16.370	4
226	10.226	8770.0	1266.816	16.456	4
225	10.206	8770.0	1267.229	16.522	5
224	10.185	8770.0	1267.559	16.506	5
223	10.165	8770.0	1267.725	16.325	5
222	10.145	8770.0	1267.743	15.997	5
221	10.124	8770.0	1267.755	15.661	4
220	10.104	8770.0	1267.765	15.325	4
219	10.084	8770.0	1267.776	14.990	4
218	10.063	8770.0	1267.788	14.655	4
217	10.043	8770.0	1267.800	14.320	4
216	10.023	8770.0	1267.813	13.987	4
215	10.002	8770.0	1267.827	13.654	4
214	9.982	8770.0	1267.842	13.322	4
213	9.962	8770.0	1267.857	12.991	4
212	9.941	8770.0	1267.875	12.662	4
211	9.921	8770.0	1267.896	12.336	4
210	9.901	8770.0	1267.920	12.014	4
209	9.880	8770.0	1267.949	11.695	4
208	9.860	8770.0	1267.982	11.382	4
207	9.804	8770.0	1268.796	10.596	4
206	9.747	8770.0	1269.992	10.193	4
205	9.691	8770.0	1271.541	10.141	4
204	9.634	8770.0	1273.294	10.294	4
203	9.578	8770.0	1275.134	10.534	4
202	9.521	8770.0	1277.015	10.815	4
201	9.465	8770.0	1278.922	11.122	4

Cross Section Number I	Cross Section Location X (mi)	Flow QIL (cfs)	Backwater Water Surface Elevation YIL (ft MSL)	Backwater Water Depth DEP (ft)	Iteration Count for Computing Backwater ITB
200	9.409	8770.0	1280.849	11.450	4
199	9.352	8770.0	1282.795	11.796	4
198	9.296	8770.0	1284.758	12.158	4
197	9.239	8770.0	1286.708	12.508	4
196	9.183	8770.0	1288.488	12.688	3
195	9.126	8770.0	1290.262	12.863	3
194	9.070	8770.0	1292.033	13.033	3
193	9.020	8770.0	1292.804	12.804	5
192	8.970	8770.0	1293.925	12.925	4
191	8.920	8770.0	1295.063	13.063	4
190	8.870	8770.0	1296.176	13.176	5
189	8.820	8770.0	1297.244	13.244	5
188	8.770	8770.0	1298.326	13.326	5
187	8.720	8770.0	1299.403	13.403	5
186	8.670	8770.0	1300.469	13.469	5
185	8.620	8770.0	1301.521	13.521	4
184	8.570	8770.0	1302.559	13.559	5
183	8.520	8770.0	1303.582	13.582	5
182	8.470	8770.0	1304.588	13.588	5
181	8.420	8770.0	1305.573	13.573	4
180	8.370	8770.0	1306.537	13.537	4
179	8.320	8770.0	1307.475	13.475	4
178	8.270	8770.0	1308.381	13.381	4
177	8.220	8770.0	1309.251	13.251	4
176	8.170	8770.0	1310.079	13.079	4
175	8.120	8770.0	1310.857	12.857	4
174	8.035	8770.0	1312.856	12.106	4
173	7.950	8770.0	1315.627	12.127	4
172	7.865	8770.0	1318.752	12.502	4
171	7.780	8770.0	1323.236	14.236	5
170	7.695	8770.0	1325.387	13.638	5
169	7.610	8770.0	1327.299	12.799	4
168	7.525	8770.0	1329.441	12.192	4
167	7.440	8770.0	1331.522	11.523	3
166	7.430	8770.0	1331.897	11.599	4
165	7.420	8770.0	1332.207	11.611	4
164	7.410	8770.0	1332.496	11.602	4
163	7.400	8770.0	1332.773	11.581	5
162	7.390	8770.0	1333.047	11.557	5
161	7.380	8770.0	1333.320	11.531	5
160	7.370	8770.0	1333.592	11.505	5
159	7.360	8770.0	1333.864	11.479	5
158	7.350	8770.0	1334.135	11.452	5
157	7.340	8770.0	1334.407	11.425	5
156	7.330	8770.0	1334.678	11.398	5
155	7.320	8770.0	1334.949	11.371	5
154	7.310	8770.0	1335.220	11.344	5
153	7.300	8770.0	1335.491	11.317	5
152	7.290	8770.0	1335.763	11.290	5
151	7.280	8770.0	1336.034	11.263	5

Cross Section Number I	Cross Section Location X (mi)	Flow QIL (cfs)	Backwater Water Surface Elevation YIL (ft MSL)	Backwater Water Depth DEP (ft)	Iteration Count for Computing Backwater ITB
150	7.270	8770.0	1336.305	11.235	5
149	7.260	8770.0	1336.576	11.208	5
148	7.250	8770.0	1336.847	11.181	5
147	7.240	8770.0	1337.119	11.154	5
146	7.230	8770.0	1337.390	11.127	5
145	7.220	8770.0	1337.661	11.100	5
144	7.210	8770.0	1337.932	11.073	5
143	7.200	8770.0	1338.203	11.046	5
142	7.190	8770.0	1338.475	11.019	5
141	7.180	8770.0	1338.746	10.992	5
140	7.170	8770.0	1339.017	10.965	5
139	7.160	8770.0	1339.288	10.938	5
138	7.150	8770.0	1339.560	10.911	5
137	7.140	8770.0	1339.831	10.884	5
136	7.130	8770.0	1340.103	10.858	5
135	7.120	8770.0	1340.374	10.831	5
134	7.110	8770.0	1340.645	10.804	5
133	7.100	8770.0	1340.917	10.777	5
132	7.090	8770.0	1341.188	10.750	5
131	7.080	8770.0	1341.460	10.723	5
130	7.070	8770.0	1341.731	10.697	5
129	7.060	8770.0	1342.003	10.670	5
128	7.050	8770.0	1342.275	10.643	5
127	7.040	8770.0	1342.546	10.617	5
126	7.030	8770.0	1342.818	10.590	5
125	7.020	8770.0	1343.090	10.564	5
124	7.010	8770.0	1343.361	10.537	5
123	7.000	8770.0	1343.633	10.511	5
122	6.990	8770.0	1343.905	10.484	5
121	6.980	8770.0	1344.177	10.458	5
120	6.970	8770.0	1344.449	10.432	5
119	6.960	8770.0	1344.721	10.406	5
118	6.950	8770.0	1344.993	10.379	5
117	6.940	8770.0	1345.265	10.353	5
116	6.930	8770.0	1345.537	10.327	5
115	6.920	8770.0	1345.809	10.301	5
114	6.910	8770.0	1346.082	10.275	5
113	6.900	8770.0	1346.354	10.249	5
112	6.890	8770.0	1346.626	10.223	5
111	6.880	8770.0	1346.899	10.197	5
110	6.870	8770.0	1347.171	10.171	5
109	6.860	8770.0	1347.444	10.146	5
108	6.850	8770.0	1347.716	10.120	5
107	6.840	8770.0	1347.989	10.094	5
106	6.830	8770.0	1348.262	10.069	5
105	6.820	8770.0	1348.534	10.043	5
104	6.810	8770.0	1348.807	10.018	5
103	6.800	8770.0	1349.080	9.993	5
102	6.790	8770.0	1349.353	9.967	5
101	6.780	8770.0	1349.626	9.942	5

Cross Section Number I	Cross Section Location X (mi)	Flow QIL (cfs)	Backwater Water Surface Elevation YIL (ft MSL)	Backwater Water Depth DEP (ft)	Iteration Count for Computing Backwater ITB
100	6.770	8770.0	1349.899	9.917	5
99	6.760	8770.0	1350.172	9.892	5
98	6.750	8770.0	1350.446	9.867	5
97	6.740	8770.0	1350.719	9.842	5
96	6.730	8770.0	1350.992	9.817	5
95	6.720	8770.0	1351.266	9.793	5
94	6.710	8770.0	1351.540	9.768	5
93	6.700	8770.0	1351.813	9.743	5
92	6.690	8770.0	1352.087	9.719	5
91	6.680	8770.0	1352.361	9.694	5
90	6.670	8770.0	1352.635	9.670	5
89	6.660	8770.0	1352.909	9.646	5
88	6.650	8770.0	1353.183	9.622	5
87	6.640	8770.0	1353.457	9.598	5
86	6.630	8770.0	1353.731	9.573	5
85	6.620	8770.0	1354.006	9.550	5
84	6.610	8770.0	1354.280	9.526	5
83	6.600	8770.0	1354.555	9.502	5
82	6.590	8770.0	1354.829	9.479	5
81	6.580	8770.0	1355.104	9.455	5
80	6.570	8770.0	1355.379	9.432	5
79	6.560	8770.0	1355.654	9.408	5
78	6.550	8770.0	1355.929	9.385	5
77	6.540	8770.0	1356.204	9.362	5
76	6.530	8770.0	1356.479	9.339	5
75	6.520	8770.0	1356.755	9.316	5
74	6.510	8770.0	1357.030	9.293	5
73	6.500	8770.0	1357.306	9.271	5
72	6.490	8770.0	1357.581	9.248	5
71	6.480	8770.0	1357.857	9.225	5
70	6.470	8770.0	1358.133	9.203	5
69	6.460	8770.0	1358.409	9.181	5
68	6.450	8770.0	1358.685	9.158	5
67	6.440	8770.0	1358.961	9.136	5
66	6.430	8770.0	1359.237	9.114	5
65	6.420	8770.0	1359.513	9.092	5
64	6.410	8770.0	1359.790	9.071	5
63	6.400	8770.0	1360.067	9.049	5
62	6.390	8770.0	1360.343	9.027	5
61	6.380	8770.0	1360.620	9.006	5
60	6.370	8770.0	1360.897	8.984	5
59	6.360	8770.0	1361.174	8.963	5
58	6.350	8770.0	1361.451	8.942	5
57	6.340	8770.0	1361.728	8.921	5
56	6.330	8770.0	1362.005	8.900	5
55	6.320	8770.0	1362.282	8.879	5
54	6.310	8770.0	1362.560	8.858	5
53	6.300	8770.0	1362.837	8.837	5
52	6.248	8770.0	1364.287	8.554	5
51	6.196	8770.0	1365.546	8.080	5

Cross Section Number I	Cross Section Location X (mi)	Flow QIL (cfs)	Backwater Water Surface Elevation YIL (ft MSL)	Backwater Water Depth DEP (ft)	Iteration Count for Computing Backwater ITB
50	6.144	8770.0	1366.901	7.701	5
49	6.092	8770.0	1368.366	7.432	5
48	6.040	8770.0	1369.910	7.243	5
47	5.988	8770.0	1371.482	7.082	4
46	5.936	8770.0	1373.060	6.927	4
45	5.884	8770.0	1374.646	6.779	4
44	5.832	8770.0	1376.234	6.634	4
43	5.780	8770.0	1377.825	6.491	3
42	5.728	8770.0	1379.420	6.353	4
41	5.676	8770.0	1381.014	6.214	4
40	5.624	8770.0	1382.611	6.078	4
39	5.572	8770.0	1384.208	5.942	4
38	5.520	8770.0	1385.807	5.807	4
37	5.410	8770.0	1389.058	5.808	4
36	5.300	8770.0	1392.365	5.865	4
35	5.190	8770.0	1395.472	5.722	4
34	5.080	8770.0	1398.403	5.403	4
33	4.967	8770.0	1400.958	5.208	4
32	4.855	8770.0	1403.513	5.013	4
31	4.742	8770.0	1406.090	4.840	4
30	4.630	5000.0	1408.245	4.245	4
29	4.578	5000.0	1409.253	3.531	4
28	4.526	5000.0	1410.738	3.294	4
27	4.473	5000.0	1412.213	3.047	4
26	4.421	5000.0	1413.706	2.817	4
25	4.369	5000.0	1415.215	2.604	4
24	4.317	5000.0	1416.741	2.408	4
23	4.264	5000.0	1418.282	2.226	4
22	4.212	5000.0	1419.835	2.057	3
21	4.160	5000.0	1421.396	1.896	3
20	4.139	5000.0	1421.545	1.345	5
19	4.117	5000.0	1422.053	1.153	4
18	4.096	5000.0	1422.786	1.186	4
17	4.075	5000.0	1423.488	1.188	4
16	4.053	5000.0	1424.197	1.197	4
15	4.032	5000.0	1424.905	1.205	4
14	4.011	5000.0	1425.613	1.213	4
13	3.989	5000.0	1426.322	1.222	4
12	3.968	5000.0	1427.030	1.230	4
11	3.947	5000.0	1427.738	1.238	4
10	3.925	5000.0	1428.446	1.246	4
9	3.904	5000.0	1429.150	1.250	5
8	3.883	5000.0	1429.856	1.256	4
7	3.861	5000.0	1430.551	1.251	5
6	3.840	5000.0	1431.214	1.214	4
5	3.772	5000.0	1434.578	1.578	3
4	3.704	5000.0	1437.787	1.787	4
3	3.636	5000.0	1441.193	2.193	4
2	3.568	5000.0	1444.536	2.536	5
1	3.500	5000.0	1448.476	3.476	5

Interp. Cross Section I	Water Elevation YI(I) (ft MSL)	Initial Flow QDI(I) (cfs)
1	1448.48	5000.0
2	1444.54	5000.0
3	1441.19	5000.0
4	1437.79	5000.0
5	1434.58	5000.0
6	1431.21	5000.0
7	1430.55	5000.0
8	1429.86	5000.0
9	1429.15	5000.0
10	1428.45	5000.0
11	1427.74	5000.0
12	1427.03	5000.0
13	1426.32	5000.0
14	1425.61	5000.0
15	1424.91	5000.0
16	1424.20	5000.0
17	1423.49	5000.0
18	1422.79	5000.0
19	1422.05	5000.0
20	1421.55	5000.0
21	1421.40	5000.0
22	1419.83	5000.0
23	1418.28	5000.0
24	1416.74	5000.0
25	1415.22	5000.0
26	1413.71	5000.0
27	1412.21	5000.0
28	1410.74	5000.0
29	1409.25	5000.0
30	1408.25	5000.0
31	1406.09	8770.0
32	1403.51	8770.0
33	1400.96	8770.0
34	1398.40	8770.0
35	1395.47	8770.0
36	1392.36	8770.0
37	1389.06	8770.0
38	1385.81	8770.0
39	1384.21	8770.0
40	1382.61	8770.0
41	1381.01	8770.0
42	1379.42	8770.0
43	1377.82	8770.0
44	1376.23	8770.0
45	1374.65	8770.0
46	1373.06	8770.0
47	1371.48	8770.0
48	1369.91	8770.0
49	1368.37	8770.0

Interp. Cross Section I	Water Elevation YI(I) (ft MSL)	Initial Flow QDI(I) (cfs)
50	1366.90	8770.0
51	1365.55	8770.0
52	1364.29	8770.0
53	1362.84	8770.0
54	1362.56	8770.0
55	1362.28	8770.0
56	1362.01	8770.0
57	1361.73	8770.0
58	1361.45	8770.0
59	1361.17	8770.0
60	1360.90	8770.0
61	1360.62	8770.0
62	1360.34	8770.0
63	1360.07	8770.0
64	1359.79	8770.0
65	1359.51	8770.0
66	1359.24	8770.0
67	1358.96	8770.0
68	1358.68	8770.0
69	1358.41	8770.0
70	1358.13	8770.0
71	1357.86	8770.0
72	1357.58	8770.0
73	1357.31	8770.0
74	1357.03	8770.0
75	1356.75	8770.0
76	1356.48	8770.0
77	1356.20	8770.0
78	1355.93	8770.0
79	1355.65	8770.0
80	1355.38	8770.0
81	1355.10	8770.0
82	1354.83	8770.0
83	1354.55	8770.0
84	1354.28	8770.0
85	1354.01	8770.0
86	1353.73	8770.0
87	1353.46	8770.0
88	1353.18	8770.0
89	1352.91	8770.0
90	1352.63	8770.0
91	1352.36	8770.0
92	1352.09	8770.0
93	1351.81	8770.0
94	1351.54	8770.0
95	1351.27	8770.0
96	1350.99	8770.0
97	1350.72	8770.0
98	1350.45	8770.0
99	1350.17	8770.0

Interp. Cross Section I	Water Elevation YI(I) (ft MSL)	Initial Flow QDI(I) (cfs)
100	1349.90	8770.0
101	1349.63	8770.0
102	1349.35	8770.0
103	1349.08	8770.0
104	1348.81	8770.0
105	1348.53	8770.0
106	1348.26	8770.0
107	1347.99	8770.0
108	1347.72	8770.0
109	1347.44	8770.0
110	1347.17	8770.0
111	1346.90	8770.0
112	1346.63	8770.0
113	1346.35	8770.0
114	1346.08	8770.0
115	1345.81	8770.0
116	1345.54	8770.0
117	1345.27	8770.0
118	1344.99	8770.0
119	1344.72	8770.0
120	1344.45	8770.0
121	1344.18	8770.0
122	1343.91	8770.0
123	1343.63	8770.0
124	1343.36	8770.0
125	1343.09	8770.0
126	1342.82	8770.0
127	1342.55	8770.0
128	1342.27	8770.0
129	1342.00	8770.0
130	1341.73	8770.0
131	1341.46	8770.0
132	1341.19	8770.0
133	1340.92	8770.0
134	1340.65	8770.0
135	1340.37	8770.0
136	1340.10	8770.0
137	1339.83	8770.0
138	1339.56	8770.0
139	1339.29	8770.0
140	1339.02	8770.0
141	1338.75	8770.0
142	1338.47	8770.0
143	1338.20	8770.0
144	1337.93	8770.0
145	1337.66	8770.0
146	1337.39	8770.0
147	1337.12	8770.0
148	1336.85	8770.0
149	1336.58	8770.0

Interp. Cross Section I	Water Elevation YI(I) (ft MSL)	Initial Flow QDI(I) (cfs)
150	1336.30	8770.0
151	1336.03	8770.0
152	1335.76	8770.0
153	1335.49	8770.0
154	1335.22	8770.0
155	1334.95	8770.0
156	1334.68	8770.0
157	1334.41	8770.0
158	1334.14	8770.0
159	1333.86	8770.0
160	1333.59	8770.0
161	1333.32	8770.0
162	1333.05	8770.0
163	1332.77	8770.0
164	1332.50	8770.0
165	1332.21	8770.0
166	1331.90	8770.0
167	1331.52	8770.0
168	1329.44	8770.0
169	1327.30	8770.0
170	1325.39	8770.0
171	1323.24	8770.0
172	1318.75	8770.0
173	1315.63	8770.0
174	1312.86	8770.0
175	1310.86	8770.0
176	1310.08	8770.0
177	1309.25	8770.0
178	1308.38	8770.0
179	1307.47	8770.0
180	1306.54	8770.0
181	1305.57	8770.0
182	1304.59	8770.0
183	1303.58	8770.0
184	1302.56	8770.0
185	1301.52	8770.0
186	1300.47	8770.0
187	1299.40	8770.0
188	1298.33	8770.0
189	1297.24	8770.0
190	1296.18	8770.0
191	1295.06	8770.0
192	1293.93	8770.0
193	1292.80	8770.0
194	1292.03	8770.0
195	1290.26	8770.0
196	1288.49	8770.0
197	1286.71	8770.0
198	1284.76	8770.0
199	1282.80	8770.0

Interp. Cross Section I	Water Elevation YI(I) (ft MSL)	Initial Flow QDI(I) (cfs)
200	1280.85	8770.0
201	1278.92	8770.0
202	1277.02	8770.0
203	1275.13	8770.0
204	1273.29	8770.0
205	1271.54	8770.0
206	1269.99	8770.0
207	1268.80	8770.0
208	1267.98	8770.0
209	1267.95	8770.0
210	1267.92	8770.0
211	1267.90	8770.0
212	1267.88	8770.0
213	1267.86	8770.0
214	1267.84	8770.0
215	1267.83	8770.0
216	1267.81	8770.0
217	1267.80	8770.0
218	1267.79	8770.0
219	1267.78	8770.0
220	1267.77	8770.0
221	1267.75	8770.0
222	1267.74	8770.0
223	1267.72	8770.0
224	1267.56	8770.0
225	1267.23	8770.0
226	1266.82	8770.0
227	1266.38	8770.0
228	1265.95	8770.0
229	1265.52	8770.0
230	1265.09	8770.0
231	1264.66	8770.0
232	1264.23	8770.0
233	1263.80	8770.0
234	1263.37	8770.0
235	1262.94	8770.0
236	1262.50	8770.0
237	1262.05	8770.0
238	1261.51	8770.0
239	1260.97	8770.0
240	1260.42	8770.0
241	1259.87	8770.0
242	1259.29	8770.0
243	1258.57	8770.0
244	1257.49	8770.0
245	1256.31	8770.0
246	1255.66	8770.0
247	1255.01	8770.0
248	1254.37	8770.0
249	1253.72	8770.0

Interp. Cross Section I	Water Elevation YI(I) (ft MSL)	Initial Flow QDI(I) (cfs)
250	1253.07	8770.0
251	1252.42	8770.0
252	1251.78	8770.0
253	1251.13	8770.0
254	1250.48	8770.0
255	1249.83	8770.0
256	1249.18	8770.0
257	1248.53	8770.0
258	1247.88	8770.0
259	1247.24	8770.0
260	1246.59	8770.0
261	1245.94	8770.0
262	1245.29	8770.0
263	1244.64	8770.0
264	1243.99	8770.0
265	1243.34	8770.0
266	1242.69	8770.0
267	1242.04	8770.0
268	1241.39	8770.0
269	1240.74	8770.0
270	1240.09	8770.0
271	1239.44	8770.0
272	1238.79	8770.0
273	1238.13	8770.0
274	1237.48	8770.0
275	1236.80	8770.0
276	1236.07	8770.0
277	1234.74	8770.0
278	1233.43	8770.0
279	1232.12	8770.0
280	1230.82	8770.0
281	1229.53	8770.0
282	1228.26	8770.0
283	1227.05	8770.0
284	1225.99	8770.0
285	1225.21	8770.0
286	1224.73	8770.0
287	1224.44	8770.0
288	1224.25	8770.0
289	1224.11	8770.0
290	1223.98	8770.0
291	1223.82	8770.0
292	1223.60	8770.0
293	1223.25	8770.0

DAM OUTFLOW HYDROGRAPH TIME PARAMETERS :

Time to Failure (TFH, hr)	44.030
Time to Start of Rising Limb of Hydrograph (TFO, hr)	.000
Time to Peak (TP, hr)	44.030
Time Step Size (DTHI, hr)	.080

- - - - - - - - - - - - - - - - NEXT CYCLE - - - - - - - - - - - - - - - -

Time (TT)	.0000
Time Step (DTH)	.0800
Number of Iterations Required after Time Step Reduction (ITERR)	0
Flow at Upstream End of Model (QU(1), cfs)	5000.00
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1448.48
Flow at Downstream End of Model (QU(N), cfs)	8770.00
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1223.25

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.500	1448.48	2.23	2242.	2118.	2118.	5.000	.0718
4.053	1424.20	2.15	2321.	2652.	2652.	5.000	.0500
4.742	1406.09	1.14	7672.	4108.	4108.	8.770	.1300
5.936	1373.06	.75	11711.	13060.	13060.	8.770	.1400
6.380	1360.62	.93	9455.	8218.	8218.	8.770	.1272
6.530	1356.48	.93	9391.	8052.	8052.	8.770	.1272
6.680	1352.36	.93	9389.	8037.	8037.	8.770	.1270
6.830	1348.26	.93	9423.	8115.	8115.	8.770	.1267
6.980	1344.18	.93	9453.	8205.	8205.	8.770	.1263
7.130	1340.10	.93	9430.	8208.	8208.	8.770	.1256
7.280	1336.03	.94	9284.	7983.	7983.	8.770	.1246
7.430	1331.90	1.04	8400.	7150.	7150.	8.770	.1243
8.420	1305.57	2.42	3627.	1420.	1420.	8.770	.0700
9.183	1288.49	1.24	7055.	3777.	3777.	8.770	.1400
9.921	1267.90	1.32	6635.	1330.	1330.	8.770	.0500
10.226	1266.82	.67	13109.	10806.	10806.	8.770	.1599
10.530	1259.87	.79	11118.	9672.	9672.	8.770	.1500
10.830	1249.18	2.17	4039.	2220.	2220.	8.770	.0800
11.130	1239.44	2.05	4282.	2572.	2572.	8.770	.0800
11.430	1224.73	1.59	5529.	1811.	1811.	8.770	.1247

Maximum Froude Number (FRDM)	.42
Cross-Section of Maximum Froude Number (IFR)	19
Minimum Froude Number (FRM)	.07
Cross-Section of Minimum Froude Number (IFM)	222

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Time (TT)	.0000
Time Step (DTH)	.0800
Number of Iterations Required after Time Step Reduction (ITERR)	1
Flow at Upstream End of Model (QU(1), cfs)	5000.00
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1448.48
Flow at Downstream End of Model (QU(N), cfs)	8770.00
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1223.45

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.500	1448.48	2.23	2242.	2118.	2118.	5.000	.0718
4.053	1424.20	2.16	2322.	2652.	2652.	5.006	.0500
4.742	1406.09	1.14	7672.	4108.	4108.	8.770	.1300
5.936	1373.06	.75	11716.	13062.	13062.	8.770	.1400
6.380	1360.62	.93	9455.	8218.	8218.	8.784	.1272
6.530	1356.48	.94	9392.	8053.	8053.	8.784	.1272
6.680	1352.36	.93	9390.	8037.	8037.	8.778	.1270
6.830	1348.26	.93	9423.	8115.	8115.	8.774	.1267
6.980	1344.18	.93	9454.	8205.	8205.	8.772	.1263
7.130	1340.10	.93	9430.	8208.	8208.	8.771	.1256
7.280	1336.03	.94	9284.	7983.	7983.	8.770	.1246
7.430	1331.90	1.04	8407.	7152.	7152.	8.784	.1243
8.420	1305.57	2.42	3628.	1420.	1420.	8.778	.0700
9.183	1288.49	1.24	7055.	3777.	3777.	8.770	.1400
9.921	1267.90	1.32	6635.	1330.	1330.	8.786	.0500
10.226	1266.82	.67	13109.	10806.	10806.	8.791	.1599
10.530	1259.87	.79	11135.	9677.	9677.	8.795	.1500
10.830	1249.18	2.17	4039.	2220.	2220.	8.771	.0800
11.130	1239.44	2.05	4282.	2573.	2573.	8.771	.0800
11.430	1224.76	1.57	5581.	1820.	1820.	8.770	.1250

Maximum Froude Number (FRDM)	.42
Cross-Section of Maximum Froude Number (IFR)	19
Minimum Froude Number (FRM)	.07
Cross-Section of Minimum Froude Number (IFM)	222

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Time (TT)	.0000
Time Step (DTH)	.0800
Number of Iterations Required after Time Step Reduction (ITERR)	1
Flow at Upstream End of Model (QU(1), cfs)	5000.00
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1448.48
Flow at Downstream End of Model (QU(N), cfs)	8770.00
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1223.62

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.500	1448.48	2.23	2242.	2118.	2118.	5.000	.0718
4.053	1424.20	2.16	2322.	2652.	2652.	5.004	.0500
4.742	1406.09	1.14	7673.	4108.	4108.	8.772	.1300
5.936	1373.06	.75	11716.	13062.	13062.	8.772	.1400
6.380	1360.62	.93	9455.	8218.	8218.	8.776	.1272
6.530	1356.48	.93	9392.	8053.	8053.	8.776	.1272
6.680	1352.36	.93	9391.	8038.	8038.	8.775	.1270
6.830	1348.26	.93	9424.	8116.	8116.	8.773	.1267
6.980	1344.18	.93	9454.	8205.	8205.	8.772	.1263
7.130	1340.10	.93	9430.	8208.	8208.	8.771	.1256
7.280	1336.03	.94	9285.	7983.	7983.	8.771	.1246
7.430	1331.90	1.04	8407.	7152.	7152.	8.775	.1243
8.420	1305.57	2.42	3628.	1420.	1420.	8.774	.0700
9.183	1288.49	1.24	7056.	3777.	3777.	8.770	.1400
9.921	1267.90	1.32	6635.	1330.	1330.	8.775	.0500
10.226	1266.82	.67	13109.	10806.	10806.	8.781	.1599
10.530	1259.87	.79	11135.	9677.	9677.	8.785	.1500
10.830	1249.18	2.17	4040.	2220.	2220.	8.772	.0800
11.130	1239.44	2.05	4283.	2573.	2573.	8.772	.0800
11.430	1224.83	1.53	5714.	1844.	1844.	8.770	.1256

Maximum Froude Number (FRDM)	.42
Cross-Section of Maximum Froude Number (IFR)	19
Minimum Froude Number (FRM)	.07
Cross-Section of Minimum Froude Number (IFM)	222

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Time (TT)	2.0000
Time Step (DTH)	.0800
Number of Iterations Required after Time Step Reduction (ITERR)	0
Flow at Upstream End of Model (QU(1), cfs)	5000.00
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1448.48
Flow at Downstream End of Model (QU(N), cfs)	8770.00
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1225.46

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.500	1448.48	2.23	2242.	2118.	2118.	5.000	.0718
4.053	1424.20	2.16	2323.	2652.	2652.	5.006	.0500
4.742	1406.09	1.14	7677.	4109.	4109.	8.778	.1300
5.936	1373.06	.75	11722.	13066.	13066.	8.778	.1400
6.380	1360.62	.93	9457.	8220.	8220.	8.782	.1272
6.530	1356.48	.93	9396.	8057.	8057.	8.781	.1272
6.680	1352.36	.93	9397.	8044.	8044.	8.782	.1270
6.830	1348.26	.93	9431.	8121.	8121.	8.781	.1267
6.980	1344.18	.93	9462.	8211.	8211.	8.781	.1263
7.130	1340.10	.93	9438.	8213.	8213.	8.780	.1256
7.280	1336.03	.94	9292.	7987.	7987.	8.780	.1246
7.430	1331.90	1.04	8410.	7153.	7153.	8.784	.1243
8.420	1305.58	2.42	3632.	1422.	1422.	8.785	.0700
9.183	1288.49	1.24	7063.	3777.	3777.	8.784	.1400
9.921	1267.90	1.32	6635.	1330.	1330.	8.784	.0500
10.226	1266.82	.67	13109.	10806.	10806.	8.786	.1599
10.530	1259.87	.79	11143.	9679.	9679.	8.796	.1500
10.830	1249.19	2.17	4049.	2224.	2224.	8.796	.0800
11.130	1239.44	2.05	4292.	2577.	2577.	8.796	.0800
11.430	1226.04	1.07	8202.	2245.	2245.	8.770	.1362

Maximum Froude Number (FRDM)	.42
Cross-Section of Maximum Froude Number (IFR)	19
Minimum Froude Number (FRM)	.06
Cross-Section of Minimum Froude Number (IFM)	291

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Time (TT)	4.0000
Time Step (DTH)	.0800
Number of Iterations Required after Time Step Reduction (ITERR)	0
Flow at Upstream End of Model (QU(1), cfs)	5000.00
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1448.48
Flow at Downstream End of Model (QU(N), cfs)	8770.00
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1226.14

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.500	1448.48	2.23	2242.	2118.	2118.	5.000	.0718
4.053	1424.20	2.16	2323.	2652.	2652.	5.006	.0500
4.742	1406.09	1.14	7678.	4109.	4109.	8.778	.1300
5.936	1373.06	.75	11722.	13066.	13066.	8.778	.1400
6.380	1360.62	.93	9458.	8221.	8221.	8.782	.1272
6.530	1356.48	.93	9395.	8056.	8056.	8.782	.1272
6.680	1352.36	.93	9397.	8044.	8044.	8.782	.1270
6.830	1348.26	.93	9432.	8122.	8122.	8.781	.1267
6.980	1344.18	.93	9464.	8213.	8213.	8.782	.1263
7.130	1340.10	.93	9439.	8214.	8214.	8.782	.1256
7.280	1336.04	.94	9294.	7988.	7988.	8.782	.1246
7.430	1331.90	1.04	8411.	7153.	7153.	8.786	.1243
8.420	1305.58	2.42	3632.	1422.	1422.	8.785	.0700
9.183	1288.49	1.24	7064.	3777.	3777.	8.785	.1400
9.921	1267.90	1.32	6635.	1330.	1330.	8.785	.0500
10.226	1266.82	.67	13109.	10806.	10806.	8.787	.1599
10.530	1259.87	.79	11142.	9679.	9679.	8.796	.1500
10.830	1249.19	2.17	4049.	2224.	2224.	8.796	.0800
11.130	1239.44	2.05	4292.	2577.	2577.	8.796	.0800
11.430	1226.58	.93	9462.	2423.	2423.	8.770	.1408

Maximum Froude Number (FRDM)	.42
Cross-Section of Maximum Froude Number (IFR)	19
Minimum Froude Number (FRM)	.05
Cross-Section of Minimum Froude Number (IFM)	292

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Time (TT)	6.0000
Time Step (DTH)	.0800
Number of Iterations Required after Time Step Reduction (ITERR)	0
Flow at Upstream End of Model (QU(1), cfs)	5000.00
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1448.48
Flow at Downstream End of Model (QU(N), cfs)	8770.00
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1226.54

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.500	1448.48	2.23	2242.	2118.	2118.	5.000	.0718
4.053	1424.20	2.16	2323.	2652.	2652.	5.006	.0500
4.742	1406.09	1.14	7678.	4109.	4109.	8.778	.1300
5.936	1373.06	.75	11722.	13066.	13066.	8.778	.1400
6.380	1360.62	.93	9457.	8220.	8220.	8.782	.1272
6.530	1356.48	.93	9396.	8057.	8057.	8.781	.1272
6.680	1352.36	.93	9398.	8044.	8044.	8.782	.1270
6.830	1348.26	.93	9432.	8122.	8122.	8.782	.1267
6.980	1344.18	.93	9463.	8212.	8212.	8.782	.1263
7.130	1340.10	.93	9440.	8214.	8214.	8.781	.1256
7.280	1336.03	.94	9293.	7987.	7987.	8.781	.1246
7.430	1331.90	1.04	8411.	7153.	7153.	8.785	.1243
8.420	1305.58	2.42	3632.	1422.	1422.	8.785	.0700
9.183	1288.49	1.24	7064.	3777.	3777.	8.785	.1400
9.921	1267.90	1.32	6635.	1330.	1330.	8.785	.0500
10.226	1266.82	.67	13109.	10806.	10806.	8.787	.1599
10.530	1259.87	.79	11143.	9679.	9679.	8.796	.1500
10.830	1249.19	2.17	4049.	2224.	2224.	8.796	.0800
11.130	1239.44	2.05	4292.	2577.	2577.	8.796	.0800
11.430	1226.92	.85	10287.	2533.	2533.	8.770	.1436

Maximum Froude Number (FRDM)	.42
Cross-Section of Maximum Froude Number (IFR)	19
Minimum Froude Number (FRM)	.04
Cross-Section of Minimum Froude Number (IFM)	292

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Time (TT)	8.0000
Time Step (DTH)	.0800
Number of Iterations Required after Time Step Reduction (ITERR)	0
Flow at Upstream End of Model (QU(1), cfs)	5000.00
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1448.48
Flow at Downstream End of Model (QU(N), cfs)	8770.00
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1226.82

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.500	1448.48	2.23	2242.	2118.	2118.	5.000	.0718
4.053	1424.20	2.16	2323.	2652.	2652.	5.006	.0500
4.742	1406.09	1.14	7678.	4109.	4109.	8.779	.1300
5.936	1373.06	.75	11722.	13066.	13066.	8.778	.1400
6.380	1360.62	.93	9458.	8221.	8221.	8.782	.1272
6.530	1356.48	.93	9395.	8056.	8056.	8.782	.1272
6.680	1352.36	.93	9397.	8044.	8044.	8.782	.1270
6.830	1348.26	.93	9432.	8122.	8122.	8.781	.1267
6.980	1344.18	.93	9464.	8213.	8213.	8.782	.1263
7.130	1340.10	.93	9439.	8214.	8214.	8.782	.1256
7.280	1336.04	.94	9294.	7988.	7988.	8.782	.1246
7.430	1331.90	1.04	8411.	7153.	7153.	8.786	.1243
8.420	1305.58	2.42	3632.	1422.	1422.	8.785	.0700
9.183	1288.49	1.24	7064.	3777.	3777.	8.785	.1400
9.921	1267.90	1.32	6635.	1330.	1330.	8.785	.0500
10.226	1266.82	.67	13109.	10806.	10806.	8.787	.1599
10.530	1259.87	.79	11142.	9679.	9679.	8.796	.1500
10.830	1249.19	2.17	4049.	2224.	2224.	8.796	.0800
11.130	1239.44	2.05	4292.	2577.	2577.	8.796	.0800
11.430	1227.15	.81	10898.	2611.	2611.	8.773	.1456

Maximum Froude Number (FRDM)	.42
Cross-Section of Maximum Froude Number (IFR)	19
Minimum Froude Number (FRM)	.04
Cross-Section of Minimum Froude Number (IFM)	292

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Time (TT)	10.0000
Time Step (DTH)	.0800
Number of Iterations Required after Time Step Reduction (ITERR)	0
Flow at Upstream End of Model (QU(1), cfs)	5000.00
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1448.48
Flow at Downstream End of Model (QU(N), cfs)	8770.00
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1227.04

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.500	1448.48	2.23	2242.	2118.	2118.	5.000	.0718
4.053	1424.20	2.16	2323.	2652.	2652.	5.006	.0500
4.742	1406.09	1.14	7678.	4109.	4109.	8.779	.1300
5.936	1373.06	.75	11722.	13066.	13066.	8.778	.1400
6.380	1360.62	.93	9457.	8220.	8220.	8.782	.1272
6.530	1356.48	.93	9396.	8057.	8057.	8.781	.1272
6.680	1352.36	.93	9398.	8044.	8044.	8.782	.1270
6.830	1348.26	.93	9432.	8122.	8122.	8.782	.1267
6.980	1344.18	.93	9463.	8212.	8212.	8.782	.1263
7.130	1340.10	.93	9440.	8214.	8214.	8.781	.1256
7.280	1336.03	.94	9293.	7987.	7987.	8.781	.1246
7.430	1331.90	1.04	8411.	7153.	7153.	8.785	.1243
8.420	1305.58	2.42	3632.	1422.	1422.	8.785	.0700
9.183	1288.49	1.24	7064.	3777.	3777.	8.785	.1400
9.921	1267.90	1.32	6635.	1330.	1330.	8.785	.0500
10.226	1266.82	.67	13109.	10806.	10806.	8.787	.1599
10.530	1259.87	.79	11143.	9679.	9679.	8.796	.1500
10.830	1249.19	2.17	4049.	2224.	2224.	8.796	.0800
11.130	1239.44	2.05	4292.	2577.	2577.	8.796	.0800
11.430	1227.34	.77	11388.	2672.	2672.	8.777	.1472

Maximum Froude Number (FRDM)	.42
Cross-Section of Maximum Froude Number (IFR)	19
Minimum Froude Number (FRM)	.04
Cross-Section of Minimum Froude Number (IFM)	292

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Time (TT)	12.0000
Time Step (DTH)	.0800
Number of Iterations Required after Time Step Reduction (ITERR)	0
Flow at Upstream End of Model (QU(1), cfs)	5000.00
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1448.48
Flow at Downstream End of Model (QU(N), cfs)	8770.00
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1227.20

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.500	1448.48	2.23	2242.	2118.	2118.	5.000	.0718
4.053	1424.20	2.16	2323.	2652.	2652.	5.006	.0500
4.742	1406.09	1.14	7679.	4109.	4109.	8.780	.1300
5.936	1373.06	.75	11722.	13066.	13066.	8.778	.1400
6.380	1360.62	.93	9458.	8221.	8221.	8.782	.1272
6.530	1356.48	.93	9395.	8056.	8056.	8.782	.1272
6.680	1352.36	.93	9397.	8044.	8044.	8.782	.1270
6.830	1348.26	.93	9432.	8122.	8122.	8.781	.1267
6.980	1344.18	.93	9464.	8213.	8213.	8.782	.1263
7.130	1340.10	.93	9439.	8214.	8214.	8.782	.1256
7.280	1336.04	.94	9294.	7988.	7988.	8.782	.1246
7.430	1331.90	1.04	8411.	7153.	7153.	8.786	.1243
8.420	1305.58	2.42	3632.	1422.	1422.	8.785	.0700
9.183	1288.49	1.24	7064.	3777.	3777.	8.785	.1400
9.921	1267.90	1.32	6635.	1330.	1330.	8.785	.0500
10.226	1266.82	.67	13109.	10806.	10806.	8.787	.1599
10.530	1259.87	.79	11142.	9679.	9679.	8.796	.1500
10.830	1249.19	2.17	4049.	2224.	2224.	8.796	.0800
11.130	1239.44	2.05	4292.	2577.	2577.	8.796	.0800
11.430	1227.49	.75	11778.	2720.	2720.	8.778	.1484

Maximum Froude Number (FRDM)	.42
Cross-Section of Maximum Froude Number (IFR)	19
Minimum Froude Number (FRM)	.04
Cross-Section of Minimum Froude Number (IFM)	292

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Time (TT)	14.0000
Time Step (DTH)	.0800
Number of Iterations Required after Time Step Reduction (ITERR)	0
Flow at Upstream End of Model (QU(1), cfs)	5000.00
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1448.48
Flow at Downstream End of Model (QU(N), cfs)	8770.00
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1227.34

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.500	1448.48	2.23	2242.	2118.	2118.	5.000	.0718
4.053	1424.20	2.16	2323.	2652.	2652.	5.006	.0500
4.742	1406.09	1.14	7679.	4109.	4109.	8.780	.1300
5.936	1373.06	.75	11722.	13066.	13066.	8.778	.1400
6.380	1360.62	.93	9457.	8220.	8220.	8.782	.1272
6.530	1356.48	.93	9396.	8057.	8057.	8.781	.1272
6.680	1352.36	.93	9398.	8044.	8044.	8.782	.1270
6.830	1348.26	.93	9432.	8122.	8122.	8.782	.1267
6.980	1344.18	.93	9463.	8212.	8212.	8.782	.1263
7.130	1340.10	.93	9440.	8214.	8214.	8.781	.1256
7.280	1336.03	.94	9293.	7987.	7987.	8.781	.1246
7.430	1331.90	1.04	8411.	7153.	7153.	8.785	.1243
8.420	1305.58	2.42	3632.	1422.	1422.	8.785	.0700
9.183	1288.49	1.24	7064.	3777.	3777.	8.785	.1400
9.921	1267.90	1.32	6635.	1330.	1330.	8.785	.0500
10.226	1266.82	.67	13109.	10806.	10806.	8.787	.1599
10.530	1259.87	.79	11143.	9679.	9679.	8.796	.1500
10.830	1249.19	2.17	4049.	2224.	2224.	8.796	.0800
11.130	1239.44	2.05	4292.	2577.	2577.	8.796	.0800
11.430	1227.61	.72	12111.	2760.	2760.	8.780	.1494

Maximum Froude Number (FRDM)	.42
Cross-Section of Maximum Froude Number (IFR)	19
Minimum Froude Number (FRM)	.03
Cross-Section of Minimum Froude Number (IFM)	292

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Time (TT)	16.0000
Time Step (DTH)	.0800
Number of Iterations Required after Time Step Reduction (ITERR)	0
Flow at Upstream End of Model (QU(1), cfs)	5000.00
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1448.48
Flow at Downstream End of Model (QU(N), cfs)	8770.00
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1227.45

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.500	1448.48	2.23	2242.	2118.	2118.	5.000	.0718
4.053	1424.20	2.16	2323.	2652.	2652.	5.006	.0500
4.742	1406.09	1.14	7679.	4109.	4109.	8.780	.1300
5.936	1373.06	.75	11722.	13066.	13066.	8.778	.1400
6.380	1360.62	.93	9458.	8221.	8221.	8.782	.1272
6.530	1356.48	.93	9395.	8056.	8056.	8.782	.1272
6.680	1352.36	.93	9397.	8044.	8044.	8.782	.1270
6.830	1348.26	.93	9432.	8122.	8122.	8.781	.1267
6.980	1344.18	.93	9464.	8213.	8213.	8.782	.1263
7.130	1340.10	.93	9439.	8214.	8214.	8.782	.1256
7.280	1336.04	.94	9294.	7988.	7988.	8.782	.1246
7.430	1331.90	1.04	8411.	7153.	7153.	8.786	.1243
8.420	1305.58	2.42	3632.	1422.	1422.	8.785	.0700
9.183	1288.49	1.24	7064.	3777.	3777.	8.785	.1400
9.921	1267.90	1.32	6635.	1330.	1330.	8.785	.0500
10.226	1266.82	.67	13109.	10806.	10806.	8.787	.1599
10.530	1259.87	.79	11142.	9679.	9679.	8.796	.1500
10.830	1249.19	2.17	4049.	2224.	2224.	8.796	.0800
11.130	1239.44	2.05	4292.	2577.	2577.	8.796	.0800
11.430	1227.71	.71	12389.	2793.	2793.	8.782	.1500

Maximum Froude Number (FRDM)	.42
Cross-Section of Maximum Froude Number (IFR)	19
Minimum Froude Number (FRM)	.03
Cross-Section of Minimum Froude Number (IFM)	292

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Time (TT)	18.0000
Time Step (DTH)	.0800
Number of Iterations Required after Time Step Reduction (ITERR)	0
Flow at Upstream End of Model (QU(1), cfs)	5000.00
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1448.48
Flow at Downstream End of Model (QU(N), cfs)	8770.00
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1227.55

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.500	1448.48	2.23	2242.	2118.	2118.	5.000	.0718
4.053	1424.20	2.16	2323.	2652.	2652.	5.006	.0500
4.742	1406.09	1.14	7680.	4110.	4110.	8.781	.1300
5.936	1373.06	.75	11722.	13066.	13066.	8.778	.1400
6.380	1360.62	.93	9457.	8220.	8220.	8.782	.1272
6.530	1356.48	.93	9396.	8057.	8057.	8.781	.1272
6.680	1352.36	.93	9398.	8044.	8044.	8.782	.1270
6.830	1348.26	.93	9432.	8122.	8122.	8.782	.1267
6.980	1344.18	.93	9463.	8212.	8212.	8.782	.1263
7.130	1340.10	.93	9440.	8214.	8214.	8.781	.1256
7.280	1336.03	.94	9293.	7987.	7987.	8.781	.1246
7.430	1331.90	1.04	8411.	7153.	7153.	8.785	.1243
8.420	1305.58	2.42	3632.	1422.	1422.	8.785	.0700
9.183	1288.49	1.24	7064.	3777.	3777.	8.785	.1400
9.921	1267.90	1.32	6635.	1330.	1330.	8.785	.0500
10.226	1266.82	.67	13109.	10806.	10806.	8.787	.1599
10.530	1259.87	.79	11143.	9679.	9679.	8.796	.1500
10.830	1249.19	2.17	4049.	2224.	2224.	8.796	.0800
11.130	1239.44	2.05	4292.	2577.	2577.	8.796	.0800
11.430	1227.80	.70	12637.	2822.	2822.	8.785	.1500

Maximum Froude Number (FRDM)	.42
Cross-Section of Maximum Froude Number (IFR)	19
Minimum Froude Number (FRM)	.03
Cross-Section of Minimum Froude Number (IFM)	292

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Time (TT)	20.0000
Time Step (DTH)	.0800
Number of Iterations Required after Time Step Reduction (ITERR)	0
Flow at Upstream End of Model (QU(1), cfs)	5000.00
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1448.48
Flow at Downstream End of Model (QU(N), cfs)	8770.00
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1227.63

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.500	1448.48	2.23	2242.	2118.	2118.	5.000	.0718
4.053	1424.20	2.16	2323.	2652.	2652.	5.006	.0500
4.742	1406.09	1.14	7680.	4110.	4110.	8.782	.1300
5.936	1373.06	.75	11722.	13066.	13066.	8.778	.1400
6.380	1360.62	.93	9458.	8221.	8221.	8.782	.1272
6.530	1356.48	.93	9395.	8056.	8056.	8.782	.1272
6.680	1352.36	.93	9397.	8044.	8044.	8.782	.1270
6.830	1348.26	.93	9432.	8122.	8122.	8.781	.1267
6.980	1344.18	.93	9464.	8213.	8213.	8.782	.1263
7.130	1340.10	.93	9439.	8214.	8214.	8.782	.1256
7.280	1336.04	.94	9294.	7988.	7988.	8.782	.1246
7.430	1331.90	1.04	8411.	7153.	7153.	8.786	.1243
8.420	1305.58	2.42	3632.	1422.	1422.	8.785	.0700
9.183	1288.49	1.24	7064.	3777.	3777.	8.785	.1400
9.921	1267.90	1.32	6635.	1330.	1330.	8.785	.0500
10.226	1266.82	.67	13109.	10806.	10806.	8.787	.1599
10.530	1259.87	.79	11142.	9679.	9679.	8.796	.1500
10.830	1249.19	2.17	4049.	2224.	2224.	8.796	.0800
11.130	1239.44	2.05	4292.	2577.	2577.	8.796	.0800
11.430	1227.87	.68	12843.	2846.	2846.	8.787	.1500

Maximum Froude Number (FRDM)	.42
Cross-Section of Maximum Froude Number (IFR)	19
Minimum Froude Number (FRM)	.03
Cross-Section of Minimum Froude Number (IFM)	292

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Time (TT)	22.0000
Time Step (DTH)	.0800
Number of Iterations Required after Time Step Reduction (ITERR)	0
Flow at Upstream End of Model (QU(1), cfs)	5000.00
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1448.48
Flow at Downstream End of Model (QU(N), cfs)	8770.00
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1227.70

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.500	1448.48	2.23	2242.	2118.	2118.	5.000	.0718
4.053	1424.20	2.16	2323.	2652.	2652.	5.006	.0500
4.742	1406.09	1.14	7680.	4110.	4110.	8.782	.1300
5.936	1373.06	.75	11722.	13066.	13066.	8.778	.1400
6.380	1360.62	.93	9457.	8220.	8220.	8.782	.1272
6.530	1356.48	.93	9396.	8057.	8057.	8.781	.1272
6.680	1352.36	.93	9398.	8044.	8044.	8.782	.1270
6.830	1348.26	.93	9432.	8122.	8122.	8.782	.1267
6.980	1344.18	.93	9463.	8212.	8212.	8.782	.1263
7.130	1340.10	.93	9440.	8214.	8214.	8.781	.1256
7.280	1336.03	.94	9293.	7987.	7987.	8.781	.1246
7.430	1331.90	1.04	8411.	7153.	7153.	8.785	.1243
8.420	1305.58	2.42	3632.	1422.	1422.	8.785	.0700
9.183	1288.49	1.24	7064.	3777.	3777.	8.785	.1400
9.921	1267.90	1.32	6635.	1330.	1330.	8.785	.0500
10.226	1266.82	.67	13109.	10806.	10806.	8.787	.1599
10.530	1259.87	.79	11143.	9679.	9679.	8.796	.1500
10.830	1249.19	2.17	4049.	2224.	2224.	8.796	.0800
11.130	1239.44	2.05	4292.	2577.	2577.	8.796	.0800
11.430	1227.93	.67	13022.	2867.	2867.	8.788	.1500

Maximum Froude Number (FRDM)	.42
Cross-Section of Maximum Froude Number (IFR)	19
Minimum Froude Number (FRM)	.03
Cross-Section of Minimum Froude Number (IFM)	292

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Time (TT)	24.0000
Time Step (DTH)	.0800
Number of Iterations Required after Time Step Reduction (ITERR)	0
Flow at Upstream End of Model (QU(1), cfs)	5000.00
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1448.48
Flow at Downstream End of Model (QU(N), cfs)	8771.54
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1227.75

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.500	1448.48	2.23	2242.	2118.	2118.	5.000	.0718
4.053	1424.20	2.16	2323.	2652.	2652.	5.006	.0500
4.742	1406.09	1.14	7681.	4110.	4110.	8.783	.1300
5.936	1373.06	.75	11722.	13066.	13066.	8.778	.1400
6.380	1360.62	.93	9458.	8221.	8221.	8.782	.1272
6.530	1356.48	.93	9395.	8056.	8056.	8.782	.1272
6.680	1352.36	.93	9397.	8044.	8044.	8.782	.1270
6.830	1348.26	.93	9432.	8122.	8122.	8.781	.1267
6.980	1344.18	.93	9464.	8213.	8213.	8.782	.1263
7.130	1340.10	.93	9439.	8214.	8214.	8.782	.1256
7.280	1336.04	.94	9294.	7988.	7988.	8.782	.1246
7.430	1331.90	1.04	8411.	7153.	7153.	8.786	.1243
8.420	1305.58	2.42	3632.	1422.	1422.	8.785	.0700
9.183	1288.49	1.24	7064.	3777.	3777.	8.785	.1400
9.921	1267.90	1.32	6635.	1330.	1330.	8.785	.0500
10.226	1266.82	.67	13109.	10806.	10806.	8.787	.1599
10.530	1259.87	.79	11142.	9679.	9679.	8.796	.1500
10.830	1249.19	2.17	4049.	2224.	2224.	8.796	.0800
11.130	1239.44	2.05	4292.	2577.	2577.	8.796	.0800
11.430	1227.98	.67	13155.	2882.	2882.	8.788	.1500

Maximum Froude Number (FRDM)	.42
Cross-Section of Maximum Froude Number (IFR)	19
Minimum Froude Number (FRM)	.03
Cross-Section of Minimum Froude Number (IFM)	292

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Time (TT)	26.0000
Time Step (DTH)	.0800
Number of Iterations Required after Time Step Reduction (ITERR)	0
Flow at Upstream End of Model (QU(1), cfs)	5000.00
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1448.48
Flow at Downstream End of Model (QU(N), cfs)	8782.14
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1227.80

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.500	1448.48	2.23	2242.	2118.	2118.	5.000	.0718
4.053	1424.20	2.16	2323.	2652.	2652.	5.006	.0500
4.742	1406.09	1.14	7681.	4110.	4110.	8.783	.1300
5.936	1373.06	.75	11722.	13066.	13066.	8.778	.1400
6.380	1360.62	.93	9457.	8220.	8220.	8.782	.1272
6.530	1356.48	.93	9396.	8057.	8057.	8.781	.1272
6.680	1352.36	.93	9398.	8044.	8044.	8.782	.1270
6.830	1348.26	.93	9432.	8122.	8122.	8.782	.1267
6.980	1344.18	.93	9463.	8212.	8212.	8.782	.1263
7.130	1340.10	.93	9440.	8214.	8214.	8.781	.1256
7.280	1336.03	.94	9293.	7987.	7987.	8.781	.1246
7.430	1331.90	1.04	8411.	7153.	7153.	8.785	.1243
8.420	1305.58	2.42	3632.	1422.	1422.	8.785	.0700
9.183	1288.49	1.24	7064.	3777.	3777.	8.785	.1400
9.921	1267.90	1.32	6635.	1330.	1330.	8.785	.0500
10.226	1266.82	.67	13109.	10806.	10806.	8.787	.1599
10.530	1259.87	.79	11143.	9679.	9679.	8.796	.1500
10.830	1249.19	2.17	4049.	2224.	2224.	8.796	.0800
11.130	1239.44	2.05	4292.	2577.	2577.	8.796	.0800
11.430	1228.02	.66	13271.	2895.	2895.	8.792	.1500

Maximum Froude Number (FRDM)	.42
Cross-Section of Maximum Froude Number (IFR)	19
Minimum Froude Number (FRM)	.03
Cross-Section of Minimum Froude Number (IFM)	292

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Time (TT)	28.0000
Time Step (DTH)	.0800
Number of Iterations Required after Time Step Reduction (ITERR)	0
Flow at Upstream End of Model (QU(1), cfs)	5000.00
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1448.48
Flow at Downstream End of Model (QU(N), cfs)	8784.50
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1227.83

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.500	1448.48	2.23	2242.	2118.	2118.	5.000	.0718
4.053	1424.20	2.16	2323.	2652.	2652.	5.006	.0500
4.742	1406.09	1.14	7681.	4110.	4110.	8.783	.1300
5.936	1373.06	.75	11722.	13066.	13066.	8.778	.1400
6.380	1360.62	.93	9458.	8221.	8221.	8.782	.1272
6.530	1356.48	.93	9395.	8056.	8056.	8.782	.1272
6.680	1352.36	.93	9397.	8044.	8044.	8.782	.1270
6.830	1348.26	.93	9432.	8122.	8122.	8.781	.1267
6.980	1344.18	.93	9464.	8213.	8213.	8.782	.1263
7.130	1340.10	.93	9439.	8214.	8214.	8.782	.1256
7.280	1336.04	.94	9294.	7988.	7988.	8.782	.1246
7.430	1331.90	1.04	8411.	7153.	7153.	8.786	.1243
8.420	1305.58	2.42	3632.	1422.	1422.	8.785	.0700
9.183	1288.49	1.24	7064.	3777.	3777.	8.785	.1400
9.921	1267.90	1.32	6635.	1330.	1330.	8.785	.0500
10.226	1266.82	.67	13109.	10806.	10806.	8.787	.1599
10.530	1259.87	.79	11142.	9679.	9679.	8.796	.1500
10.830	1249.19	2.17	4049.	2224.	2224.	8.796	.0800
11.130	1239.44	2.05	4292.	2577.	2577.	8.796	.0800
11.430	1228.05	.66	13363.	2906.	2906.	8.791	.1500

Maximum Froude Number (FRDM)	.42
Cross-Section of Maximum Froude Number (IFR)	19
Minimum Froude Number (FRM)	.03
Cross-Section of Minimum Froude Number (IFM)	292

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Time (TT)	30.0000
Time Step (DTH)	.0800
Number of Iterations Required after Time Step Reduction (ITERR)	0
Flow at Upstream End of Model (QU(1), cfs)	5000.00
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1448.48
Flow at Downstream End of Model (QU(N), cfs)	8788.55
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1227.86

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.500	1448.48	2.23	2242.	2118.	2118.	5.000	.0718
4.053	1424.20	2.16	2323.	2652.	2652.	5.006	.0500
4.742	1406.09	1.14	7682.	4110.	4110.	8.784	.1300
5.936	1373.06	.75	11722.	13066.	13066.	8.778	.1400
6.380	1360.62	.93	9457.	8220.	8220.	8.782	.1272
6.530	1356.48	.93	9396.	8057.	8057.	8.781	.1272
6.680	1352.36	.93	9398.	8044.	8044.	8.782	.1270
6.830	1348.26	.93	9432.	8122.	8122.	8.782	.1267
6.980	1344.18	.93	9463.	8212.	8212.	8.782	.1263
7.130	1340.10	.93	9440.	8214.	8214.	8.781	.1256
7.280	1336.03	.94	9293.	7987.	7987.	8.781	.1246
7.430	1331.90	1.04	8411.	7153.	7153.	8.785	.1243
8.420	1305.58	2.42	3632.	1422.	1422.	8.785	.0700
9.183	1288.49	1.24	7064.	3777.	3777.	8.785	.1400
9.921	1267.90	1.32	6635.	1330.	1330.	8.785	.0500
10.226	1266.82	.67	13109.	10806.	10806.	8.787	.1599
10.530	1259.87	.79	11143.	9679.	9679.	8.796	.1500
10.830	1249.19	2.17	4049.	2224.	2224.	8.796	.0800
11.130	1239.44	2.05	4292.	2577.	2577.	8.796	.0800
11.430	1228.07	.65	13427.	2913.	2913.	8.793	.1500

Maximum Froude Number (FRDM)	.42
Cross-Section of Maximum Froude Number (IFR)	19
Minimum Froude Number (FRM)	.03
Cross-Section of Minimum Froude Number (IFM)	293

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Time (TT)	32.0000
Time Step (DTH)	.0800
Number of Iterations Required after Time Step Reduction (ITERR)	0
Flow at Upstream End of Model (QU(1), cfs)	5000.00
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1448.48
Flow at Downstream End of Model (QU(N), cfs)	8782.52
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1227.87

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.500	1448.48	2.23	2242.	2118.	2118.	5.000	.0718
4.053	1424.20	2.16	2323.	2652.	2652.	5.006	.0500
4.742	1406.09	1.14	7682.	4110.	4110.	8.785	.1300
5.936	1373.06	.75	11722.	13066.	13066.	8.778	.1400
6.380	1360.62	.93	9458.	8221.	8221.	8.782	.1272
6.530	1356.48	.93	9395.	8056.	8056.	8.782	.1272
6.680	1352.36	.93	9397.	8044.	8044.	8.782	.1270
6.830	1348.26	.93	9432.	8122.	8122.	8.781	.1267
6.980	1344.18	.93	9464.	8213.	8213.	8.782	.1263
7.130	1340.10	.93	9439.	8214.	8214.	8.782	.1256
7.280	1336.04	.94	9294.	7988.	7988.	8.782	.1246
7.430	1331.90	1.04	8411.	7153.	7153.	8.786	.1243
8.420	1305.58	2.42	3632.	1422.	1422.	8.785	.0700
9.183	1288.49	1.24	7064.	3777.	3777.	8.785	.1400
9.921	1267.90	1.32	6635.	1330.	1330.	8.785	.0500
10.226	1266.82	.67	13109.	10806.	10806.	8.787	.1599
10.530	1259.87	.79	11142.	9679.	9679.	8.796	.1500
10.830	1249.19	2.17	4049.	2224.	2224.	8.796	.0800
11.130	1239.44	2.05	4292.	2577.	2577.	8.796	.0800
11.430	1228.09	.65	13473.	2918.	2918.	8.793	.1500

Maximum Froude Number (FRDM)	.42
Cross-Section of Maximum Froude Number (IFR)	19
Minimum Froude Number (FRM)	.03
Cross-Section of Minimum Froude Number (IFM)	292

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Time (TT)	34.0000
Time Step (DTH)	.0800
Number of Iterations Required after Time Step Reduction (ITERR)	0
Flow at Upstream End of Model (QU(1), cfs)	5000.00
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1448.48
Flow at Downstream End of Model (QU(N), cfs)	8783.18
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1227.90

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.500	1448.48	2.23	2242.	2118.	2118.	5.000	.0718
4.053	1424.20	2.16	2323.	2652.	2652.	5.006	.0500
4.742	1406.09	1.14	7682.	4110.	4110.	8.785	.1300
5.936	1373.06	.75	11727.	13068.	13068.	8.783	.1400
6.380	1360.62	.93	9460.	8222.	8222.	8.783	.1272
6.530	1356.48	.93	9397.	8058.	8058.	8.784	.1272
6.680	1352.36	.93	9399.	8045.	8045.	8.783	.1270
6.830	1348.26	.93	9433.	8123.	8123.	8.783	.1267
6.980	1344.18	.93	9464.	8213.	8213.	8.783	.1263
7.130	1340.10	.93	9440.	8214.	8214.	8.781	.1256
7.280	1336.03	.94	9293.	7987.	7987.	8.781	.1246
7.430	1331.90	1.04	8411.	7153.	7153.	8.785	.1243
8.420	1305.58	2.42	3632.	1422.	1422.	8.785	.0700
9.183	1288.49	1.24	7064.	3777.	3777.	8.785	.1400
9.921	1267.90	1.32	6635.	1330.	1330.	8.785	.0500
10.226	1266.82	.67	13109.	10806.	10806.	8.787	.1599
10.530	1259.87	.79	11143.	9679.	9679.	8.796	.1500
10.830	1249.19	2.17	4049.	2224.	2224.	8.796	.0800
11.130	1239.44	2.05	4292.	2577.	2577.	8.796	.0800
11.430	1228.11	.65	13535.	2925.	2925.	8.793	.1500

Maximum Froude Number (FRDM)	.42
Cross-Section of Maximum Froude Number (IFR)	19
Minimum Froude Number (FRM)	.03
Cross-Section of Minimum Froude Number (IFM)	293

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Time (TT)	36.0001
Time Step (DTH)	.0800
Number of Iterations Required after Time Step Reduction (ITERR)	0
Flow at Upstream End of Model (QU(1), cfs)	5000.00
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1448.48
Flow at Downstream End of Model (QU(N), cfs)	8795.50
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1227.91

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.500	1448.48	2.23	2242.	2118.	2118.	5.000	.0718
4.053	1424.20	2.16	2323.	2652.	2652.	5.006	.0500
4.742	1406.09	1.14	7682.	4110.	4110.	8.785	.1300
5.936	1373.06	.75	11727.	13068.	13068.	8.783	.1400
6.380	1360.62	.93	9459.	8221.	8221.	8.784	.1272
6.530	1356.48	.93	9398.	8059.	8059.	8.783	.1272
6.680	1352.36	.93	9399.	8045.	8045.	8.784	.1270
6.830	1348.26	.93	9434.	8124.	8124.	8.783	.1267
6.980	1344.18	.93	9464.	8213.	8213.	8.783	.1263
7.130	1340.10	.93	9441.	8215.	8215.	8.783	.1256
7.280	1336.04	.95	9294.	7988.	7988.	8.783	.1246
7.430	1331.90	1.04	8412.	7154.	7154.	8.786	.1243
8.420	1305.58	2.42	3632.	1422.	1422.	8.785	.0700
9.183	1288.49	1.24	7064.	3777.	3777.	8.785	.1400
9.921	1267.90	1.32	6635.	1330.	1330.	8.785	.0500
10.226	1266.82	.67	13109.	10806.	10806.	8.787	.1599
10.530	1259.87	.79	11142.	9679.	9679.	8.796	.1500
10.830	1249.19	2.17	4049.	2224.	2224.	8.796	.0800
11.130	1239.44	2.05	4292.	2577.	2577.	8.796	.0800
11.430	1228.12	.65	13579.	2930.	2930.	8.796	.1500

Maximum Froude Number (FRDM)	.42
Cross-Section of Maximum Froude Number (IFR)	19
Minimum Froude Number (FRM)	.03
Cross-Section of Minimum Froude Number (IFM)	293

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Time (TT)	38.0001
Time Step (DTH)	.0800
Number of Iterations Required after Time Step Reduction (ITERR)	0
Flow at Upstream End of Model (QU(1), cfs)	5000.00
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1448.48
Flow at Downstream End of Model (QU(N), cfs)	8795.47
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1227.93

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.500	1448.48	2.23	2242.	2118.	2118.	5.000	.0718
4.053	1424.20	2.16	2323.	2652.	2652.	5.006	.0500
4.742	1406.09	1.14	7683.	4111.	4111.	8.786	.1300
5.936	1373.06	.75	11727.	13068.	13068.	8.783	.1400
6.380	1360.62	.93	9460.	8222.	8222.	8.783	.1272
6.530	1356.48	.93	9397.	8058.	8058.	8.784	.1272
6.680	1352.36	.93	9399.	8045.	8045.	8.783	.1270
6.830	1348.26	.93	9433.	8123.	8123.	8.784	.1267
6.980	1344.18	.93	9465.	8214.	8214.	8.783	.1263
7.130	1340.10	.93	9440.	8214.	8214.	8.783	.1256
7.280	1336.04	.94	9295.	7988.	7988.	8.783	.1246
7.430	1331.90	1.04	8411.	7153.	7153.	8.786	.1243
8.420	1305.58	2.42	3632.	1422.	1422.	8.785	.0700
9.183	1288.49	1.24	7064.	3777.	3777.	8.785	.1400
9.921	1267.90	1.32	6635.	1330.	1330.	8.785	.0500
10.226	1266.82	.67	13109.	10806.	10806.	8.787	.1599
10.530	1259.87	.79	11143.	9679.	9679.	8.796	.1500
10.830	1249.19	2.17	4049.	2224.	2224.	8.796	.0800
11.130	1239.44	2.05	4292.	2577.	2577.	8.796	.0800
11.430	1228.13	.65	13610.	2934.	2934.	8.796	.1500

Maximum Froude Number (FRDM)	.42
Cross-Section of Maximum Froude Number (IFR)	19
Minimum Froude Number (FRM)	.03
Cross-Section of Minimum Froude Number (IFM)	293

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Time (TT)	40.0002
Time Step (DTH)	.0800
Number of Iterations Required after Time Step Reduction (ITERR)	0
Flow at Upstream End of Model (QU(1), cfs)	5000.00
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1448.48
Flow at Downstream End of Model (QU(N), cfs)	8795.18
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1227.94

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.500	1448.48	2.23	2242.	2118.	2118.	5.000	.0718
4.053	1424.20	2.16	2323.	2652.	2652.	5.006	.0500
4.742	1406.09	1.14	7683.	4111.	4111.	8.786	.1300
5.936	1373.06	.75	11727.	13068.	13068.	8.783	.1400
6.380	1360.62	.93	9459.	8221.	8221.	8.784	.1272
6.530	1356.48	.93	9398.	8059.	8059.	8.783	.1272
6.680	1352.36	.93	9399.	8045.	8045.	8.784	.1270
6.830	1348.26	.93	9434.	8124.	8124.	8.783	.1267
6.980	1344.18	.93	9464.	8213.	8213.	8.783	.1263
7.130	1340.10	.93	9441.	8215.	8215.	8.783	.1256
7.280	1336.04	.95	9294.	7988.	7988.	8.783	.1246
7.430	1331.90	1.04	8412.	7154.	7154.	8.786	.1243
8.420	1305.58	2.42	3632.	1422.	1422.	8.785	.0700
9.183	1288.49	1.24	7064.	3777.	3777.	8.785	.1400
9.921	1267.90	1.32	6635.	1330.	1330.	8.785	.0500
10.226	1266.82	.67	13109.	10806.	10806.	8.787	.1599
10.530	1259.87	.79	11142.	9679.	9679.	8.796	.1500
10.830	1249.19	2.17	4049.	2224.	2224.	8.796	.0800
11.130	1239.44	2.05	4292.	2577.	2577.	8.796	.0800
11.430	1228.14	.64	13641.	2937.	2937.	8.796	.1500

Maximum Froude Number (FRDM)	.42
Cross-Section of Maximum Froude Number (IFR)	19
Minimum Froude Number (FRM)	.03
Cross-Section of Minimum Froude Number (IFM)	293

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Time (TT)	42.0002
Time Step (DTH)	.0800
Number of Iterations Required after Time Step Reduction (ITERR)	0
Flow at Upstream End of Model (QU(1), cfs)	5010.25
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1448.48
Flow at Downstream End of Model (QU(N), cfs)	8790.63
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1227.95

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.500	1448.48	2.23	2247.	2124.	2124.	5.010	.0718
4.053	1424.20	2.16	2323.	2652.	2652.	5.006	.0500
4.742	1406.14	1.15	7869.	4161.	4161.	9.086	.1300
5.936	1373.06	.75	11727.	13068.	13068.	8.783	.1400
6.380	1360.62	.93	9460.	8222.	8222.	8.783	.1272
6.530	1356.48	.93	9397.	8058.	8058.	8.784	.1272
6.680	1352.36	.93	9399.	8045.	8045.	8.783	.1270
6.830	1348.26	.93	9433.	8123.	8123.	8.784	.1267
6.980	1344.18	.93	9465.	8214.	8214.	8.783	.1263
7.130	1340.10	.93	9440.	8214.	8214.	8.783	.1256
7.280	1336.04	.94	9295.	7988.	7988.	8.783	.1246
7.430	1331.90	1.04	8411.	7153.	7153.	8.786	.1243
8.420	1305.58	2.42	3632.	1422.	1422.	8.785	.0700
9.183	1288.49	1.24	7064.	3777.	3777.	8.785	.1400
9.921	1267.90	1.32	6635.	1330.	1330.	8.785	.0500
10.226	1266.82	.67	13109.	10806.	10806.	8.787	.1599
10.530	1259.87	.79	11143.	9679.	9679.	8.796	.1500
10.830	1249.19	2.17	4049.	2224.	2224.	8.796	.0800
11.130	1239.44	2.05	4292.	2577.	2577.	8.796	.0800
11.430	1228.15	.64	13666.	2940.	2940.	8.795	.1500

Maximum Froude Number (FRDM)	.42
Cross-Section of Maximum Froude Number (IFR)	19
Minimum Froude Number (FRM)	.03
Cross-Section of Minimum Froude Number (IFM)	293

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Time (TT)	44.0002
Time Step (DTH)	.0800
Number of Iterations Required after Time Step Reduction (ITERR)	2
Flow at Upstream End of Model (QU(1), cfs)	267782.40
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1456.39
Flow at Downstream End of Model (QU(N), cfs)	8795.89
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1227.95

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.500	1456.39	5.65	47413.	7734.	7734.	267.782	.0900
4.053	1433.46	5.18	45367.	6399.	6399.	234.865	.0600
4.742	1413.42	2.32	82049.	17966.	17966.	190.761	.1400
5.936	1374.35	1.15	34407.	22208.	22208.	39.474	.1400
6.380	1360.67	.93	9860.	8598.	8598.	9.199	.1271
6.530	1356.50	.94	9550.	8201.	8201.	8.941	.1271
6.680	1352.37	.94	9465.	8104.	8104.	8.853	.1270
6.830	1348.27	.93	9462.	8146.	8146.	8.815	.1267
6.980	1344.18	.93	9476.	8222.	8222.	8.797	.1263
7.130	1340.10	.93	9445.	8218.	8218.	8.789	.1256
7.280	1336.04	.95	9296.	7989.	7989.	8.785	.1246
7.430	1331.90	1.04	8412.	7154.	7154.	8.787	.1243
8.420	1305.58	2.42	3632.	1422.	1422.	8.785	.0700
9.183	1288.49	1.24	7064.	3777.	3777.	8.785	.1400
9.921	1267.90	1.32	6635.	1330.	1330.	8.785	.0500
10.226	1266.82	.67	13109.	10806.	10806.	8.787	.1599
10.530	1259.87	.79	11142.	9679.	9679.	8.796	.1500
10.830	1249.19	2.17	4049.	2224.	2224.	8.796	.0800
11.130	1239.44	2.05	4292.	2577.	2577.	8.796	.0800
11.430	1228.15	.64	13673.	2941.	2941.	8.796	.1500

Maximum Froude Number (FRDM)	.41
Cross-Section of Maximum Froude Number (IFR)	6
Minimum Froude Number (FRM)	.03
Cross-Section of Minimum Froude Number (IFM)	293

NONCONVERGENCE OCCURRED AT CROSS-SECTION
TT= 45.2803 DT

NONCONVERGENCE OCCURRED AT CROSS-SECTION
TT= 45.5203 DT

NONCONVERGENCE OCCURRED AT CROSS-SECTION
TT= 45.6003 DT

NONCONVERGENCE OCCURRED AT CROSS-SECTION
TT= 45.6003 DT

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Time (TT)	45.7603
Time Step (DTH)	.0800
Number of Iterations Required after Time Step Reduction (ITERR)	6
Flow at Upstream End of Model (QU(1), cfs)	159581.20
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1454.11
Flow at Downstream End of Model (QU(N), cfs)	8795.88
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1227.95

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.500	1454.11	4.95	32245.	6021.	6021.	159.581	.0900
4.053	1432.19	4.47	37402.	6115.	6115.	167.115	.0600
4.742	1413.96	2.36	91720.	18212.	18212.	216.151	.1400
5.936	1377.68	2.08	120914.	26979.	26979.	251.885	.1400
6.380	1365.86	2.13	124886.	26714.	26714.	266.370	.1354
6.530	1362.08	2.14	126797.	25968.	25968.	271.552	.1370
6.680	1358.39	2.13	129963.	26182.	26182.	276.542	.1392
6.830	1354.60	2.14	130855.	26303.	26303.	280.503	.1400
6.980	1350.80	2.17	130938.	25881.	25881.	283.780	.1400
7.130	1347.00	2.19	130609.	25428.	25428.	286.237	.1400
7.280	1343.15	2.23	128837.	24951.	24951.	287.566	.1400
7.430	1338.54	2.66	108138.	24403.	24403.	287.656	.1400
8.420	1307.99	1.80	10221.	8038.	8038.	18.348	.0824
9.183	1288.52	1.26	7160.	3786.	3786.	9.008	.1400
9.921	1267.90	1.32	6636.	1330.	1330.	8.787	.0500
10.226	1266.82	.67	13109.	10806.	10806.	8.787	.1599
10.530	1259.87	.79	11143.	9679.	9679.	8.796	.1500
10.830	1249.19	2.17	4049.	2224.	2224.	8.796	.0800
11.130	1239.44	2.05	4292.	2577.	2577.	8.796	.0800
11.430	1228.15	.64	13673.	2941.	2941.	8.796	.1500

Maximum Froude Number (FRDM)	.39
Cross-Section of Maximum Froude Number (IFR)	6
Minimum Froude Number (FRM)	.03
Cross-Section of Minimum Froude Number (IFM)	293

NONCONVERGENCE OCCURRED AT CROSS-SECTION
TT= 46.2403 DT

NONCONVERGENCE OCCURRED AT CROSS-SECTION
TT= 46.4003 DT

NONCONVERGENCE OCCURRED AT CROSS-SECTION
TT= 46.4803 DT

NONCONVERGENCE OCCURRED AT CROSS-SECTION
TT= 46.5603 DT

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Time (TT)	47.4403
Time Step (DTH)	.0800
Number of Iterations Required after Time Step Reduction (ITERR)	3
Flow at Upstream End of Model (QU(1), cfs)	71649.79
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1452.00
Flow at Downstream End of Model (QU(N), cfs)	9074.72
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1228.05

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.500	1452.00	3.62	19774.	5850.	5850.	71.650	.0900
4.053	1428.65	4.05	18558.	4574.	4574.	75.173	.0558
4.742	1411.48	2.06	49095.	14022.	14022.	100.896	.1251
5.936	1376.27	1.64	83233.	26427.	26427.	136.823	.1400
6.380	1364.36	1.78	85460.	25845.	25845.	151.757	.1314
6.530	1360.43	1.84	85453.	23986.	23986.	156.940	.1320
6.680	1356.62	1.87	86859.	22694.	22694.	162.437	.1332
6.830	1353.01	1.85	91018.	22680.	22680.	168.420	.1355
6.980	1349.48	1.80	97073.	24701.	24701.	174.458	.1391
7.130	1345.73	1.82	98630.	25288.	25288.	179.070	.1400
7.280	1341.95	1.85	98994.	24841.	24841.	183.424	.1400
7.430	1337.58	2.21	84806.	24331.	24331.	187.389	.1400
8.420	1312.70	2.04	105092.	24311.	24311.	214.378	.1212
9.183	1297.43	2.08	120152.	25712.	25712.	249.464	.1415
9.921	1279.57	1.74	141479.	29514.	29514.	246.331	.1524
10.226	1272.98	1.61	139595.	34079.	34079.	224.461	.1563
10.530	1264.48	1.66	90440.	30196.	30196.	150.470	.1500
10.830	1253.14	1.70	31652.	13800.	13800.	53.752	.1500
11.130	1240.34	2.43	7056.	3554.	3554.	17.173	.0800
11.430	1228.30	.73	14095.	3033.	3033.	10.291	.1500

Maximum Froude Number (FRDM)	.42
Cross-Section of Maximum Froude Number (IFR)	11
Minimum Froude Number (FRM)	.03
Cross-Section of Minimum Froude Number (IFM)	293

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Time (TT)	49.4404
Time Step (DTH)	.0800
Number of Iterations Required after Time Step Reduction (ITERR)	2
Flow at Upstream End of Model (QU(1), cfs)	33064.21
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1450.75
Flow at Downstream End of Model (QU(N), cfs)	217836.70
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1233.85

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.500	1450.75	2.65	12475.	5756.	5756.	33.064	.0900
4.053	1426.23	3.97	8646.	3580.	3580.	34.303	.0500
4.742	1409.03	1.85	24756.	7624.	7624.	45.835	.1175
5.936	1375.07	1.23	52037.	25610.	25610.	64.099	.1400
6.380	1363.01	1.41	51265.	24821.	24821.	72.127	.1229
6.530	1358.94	1.47	51004.	22597.	22597.	75.016	.1243
6.680	1354.91	1.54	50461.	20346.	20346.	77.928	.1255
6.830	1350.92	1.63	49669.	18085.	18085.	80.831	.1266
6.980	1347.03	1.71	49146.	15843.	15843.	83.808	.1279
7.130	1343.71	1.60	55091.	15503.	15503.	88.370	.1318
7.280	1340.58	1.43	65145.	22885.	22885.	93.234	.1388
7.430	1335.55	2.53	39722.	13175.	13175.	100.657	.1311
8.420	1311.25	1.58	70752.	22984.	22984.	111.615	.1266
9.183	1295.32	1.75	73740.	20078.	20078.	128.762	.1400
9.921	1277.96	1.52	98161.	24648.	24648.	149.261	.1511
10.226	1272.14	1.43	113003.	29273.	29273.	161.508	.1538
10.530	1265.26	1.50	117016.	37723.	37723.	175.442	.1500
10.830	1257.05	1.69	111195.	30960.	30960.	188.188	.1500
11.130	1248.19	2.02	99638.	23677.	23677.	201.140	.1500
11.430	1237.69	1.97	107065.	25487.	25487.	211.384	.1500

Maximum Froude Number (FRDM)	.47
Cross-Section of Maximum Froude Number (IFR)	14
Minimum Froude Number (FRM)	.13
Cross-Section of Minimum Froude Number (IFM)	228

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Time (TT)	51.4404
Time Step (DTH)	.0800
Number of Iterations Required after Time Step Reduction (ITERR)	1
Flow at Upstream End of Model (QU(1), cfs)	21027.38
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1450.20
Flow at Downstream End of Model (QU(N), cfs)	122242.00
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1232.17

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.500	1450.20	2.25	9348.	5715.	5715.	21.027	.0879
4.053	1425.48	3.55	6089.	3237.	3237.	21.632	.0500
4.742	1408.03	1.57	17754.	6356.	6356.	27.793	.1241
5.936	1374.34	1.04	34294.	22171.	22171.	35.591	.1400
6.380	1362.24	1.19	33098.	21008.	21008.	39.374	.1215
6.530	1358.15	1.22	33396.	20705.	20705.	40.591	.1207
6.680	1354.05	1.26	33263.	19832.	19832.	41.771	.1204
6.830	1349.96	1.32	32463.	17586.	17586.	42.864	.1216
6.980	1345.89	1.40	31480.	15326.	15326.	43.985	.1227
7.130	1341.89	1.49	30312.	13067.	13067.	45.120	.1238
7.280	1337.97	1.60	28927.	10819.	10819.	46.268	.1250
7.430	1333.81	1.98	23890.	8469.	8469.	47.326	.1249
8.420	1310.16	1.22	46297.	21553.	21553.	56.464	.1300
9.183	1293.96	1.43	47953.	17743.	17743.	68.415	.1400
9.921	1276.53	1.29	65733.	20744.	20744.	85.011	.1543
10.226	1270.30	1.34	68104.	20736.	20736.	91.405	.1516
10.530	1263.51	1.53	65736.	20895.	20895.	100.487	.1500
10.830	1255.17	1.64	65253.	19287.	19287.	106.958	.1500
11.130	1246.34	1.79	62870.	17422.	17422.	112.729	.1500
11.430	1235.86	1.74	68348.	14684.	14684.	119.171	.1500

Maximum Froude Number (FRDM)	.46
Cross-Section of Maximum Froude Number (IFR)	15
Minimum Froude Number (FRM)	.13
Cross-Section of Minimum Froude Number (IFM)	208

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Time (TT)	53.4405
Time Step (DTH)	.0800
Number of Iterations Required after Time Step Reduction (ITERR)	0
Flow at Upstream End of Model (QU(1), cfs)	14990.53
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1449.80
Flow at Downstream End of Model (QU(N), cfs)	66988.14
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1231.20

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.500	1449.80	2.11	7099.	5226.	5226.	14.991	.0840
4.053	1425.10	3.21	4894.	3064.	3064.	15.732	.0500
4.742	1407.49	1.43	14545.	5701.	5701.	20.854	.1278
5.936	1373.92	.95	25612.	19188.	19188.	24.313	.1400
6.380	1361.77	1.08	24095.	17292.	17292.	26.108	.1232
6.530	1357.66	1.10	24263.	17037.	17037.	26.771	.1226
6.680	1353.57	1.13	24397.	16734.	16734.	27.479	.1218
6.830	1349.49	1.16	24437.	16317.	16317.	28.227	.1208
6.980	1345.40	1.21	23954.	15101.	15101.	28.931	.1204
7.130	1341.32	1.29	22942.	12835.	12835.	29.577	.1214
7.280	1337.30	1.39	21742.	10572.	10572.	30.215	.1225
7.430	1333.16	1.67	18434.	8250.	8250.	30.811	.1228
8.420	1309.54	1.06	33548.	19704.	19704.	35.725	.1300
9.183	1293.15	1.22	34284.	16371.	16371.	41.680	.1400
9.921	1275.36	1.09	43311.	17543.	17543.	47.033	.1570
10.226	1269.05	1.13	44273.	17153.	17153.	49.983	.1546
10.530	1262.14	1.31	40636.	16302.	16302.	53.075	.1500
10.830	1253.74	1.39	40412.	15420.	15420.	56.222	.1500
11.130	1243.89	2.17	28239.	10220.	10220.	61.245	.1094
11.430	1233.18	1.57	41603.	8226.	8226.	65.345	.1500

Maximum Froude Number (FRDM)	.45
Cross-Section of Maximum Froude Number (IFR)	16
Minimum Froude Number (FRM)	.10
Cross-Section of Minimum Froude Number (IFM)	290

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Time (TT)	55.4405
Time Step (DTH)	.0800
Number of Iterations Required after Time Step Reduction (ITERR)	1
Flow at Upstream End of Model (QU(1), cfs)	9889.87
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1449.30
Flow at Downstream End of Model (QU(N), cfs)	41911.06
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1231.15

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.500	1449.30	2.06	4791.	4058.	4058.	9.890	.0793
4.053	1424.67	2.75	3615.	2866.	2866.	9.949	.0500
4.742	1406.89	1.30	11298.	4995.	4995.	14.719	.1300
5.936	1373.67	.89	20987.	17390.	17390.	18.723	.1400
6.380	1361.50	1.03	19713.	15156.	15156.	20.260	.1241
6.530	1357.39	1.04	19833.	14937.	14937.	20.725	.1237
6.680	1353.29	1.06	19905.	14681.	14681.	21.173	.1230
6.830	1349.19	1.09	19887.	14336.	14336.	21.602	.1222
6.980	1345.11	1.12	19728.	13825.	13825.	22.010	.1211
7.130	1341.02	1.17	19146.	12714.	12714.	22.373	.1202
7.280	1336.94	1.26	18002.	10441.	10441.	22.679	.1212
7.430	1332.80	1.49	15445.	8128.	8128.	22.958	.1216
8.420	1309.17	.96	26476.	18599.	18599.	25.331	.1300
9.183	1291.57	1.59	20252.	4800.	4800.	32.273	.1400
9.921	1274.96	1.01	36516.	16450.	16450.	37.026	.1579
10.226	1268.55	1.04	36056.	15730.	15730.	37.592	.1558
10.530	1261.58	1.20	31947.	14665.	14665.	38.320	.1500
10.830	1253.08	1.28	30718.	13616.	13616.	39.166	.1500
11.130	1242.01	2.81	14495.	5363.	5363.	40.758	.0800
11.430	1232.10	1.25	33345.	7079.	7079.	41.743	.1500

Maximum Froude Number (FRDM)	.43
Cross-Section of Maximum Froude Number (IFR)	17
Minimum Froude Number (FRM)	.07
Cross-Section of Minimum Froude Number (IFM)	291

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Time (TT)	57.4406
Time Step (DTH)	.0800
Number of Iterations Required after Time Step Reduction (ITERR)	0
Flow at Upstream End of Model (QU(1), cfs)	9389.86
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1449.24
Flow at Downstream End of Model (QU(N), cfs)	35560.15
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1231.18

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.500	1449.24	2.06	4557.	3920.	3920.	9.390	.0788
4.053	1424.62	2.70	3497.	2848.	2848.	9.454	.0500
4.742	1406.72	1.28	10486.	4811.	4811.	13.377	.1300
5.936	1373.41	.83	16679.	15530.	15530.	13.884	.1400
6.380	1361.19	.97	15434.	12730.	12730.	15.004	.1252
6.530	1357.08	.99	15641.	12632.	12632.	15.447	.1248
6.680	1352.99	1.00	15835.	12534.	12534.	15.893	.1243
6.830	1348.90	1.02	15973.	12380.	12380.	16.330	.1236
6.980	1344.82	1.05	16005.	12094.	12094.	16.752	.1227
7.130	1340.75	1.08	15849.	11555.	11555.	17.154	.1214
7.280	1336.68	1.15	15236.	10343.	10343.	17.508	.1202
7.430	1332.52	1.34	13240.	8036.	8036.	17.800	.1207
8.420	1308.87	.96	21013.	16598.	16598.	20.204	.1214
9.183	1290.01	1.69	13186.	4282.	4282.	22.331	.1400
9.921	1274.49	.91	29057.	15161.	15161.	26.358	.1589
10.226	1268.14	.96	29903.	14574.	14574.	28.621	.1567
10.530	1261.25	1.13	27337.	13718.	13718.	30.791	.1500
10.830	1252.76	1.24	26514.	12755.	12755.	32.745	.1500
11.130	1241.67	2.72	12741.	4996.	4996.	34.594	.0800
11.430	1231.89	1.11	31846.	6851.	6851.	35.374	.1500

Maximum Froude Number (FRDM)	.43
Cross-Section of Maximum Froude Number (IFR)	18
Minimum Froude Number (FRM)	.06
Cross-Section of Minimum Froude Number (IFM)	291

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Time (TT)	59.4406
Time Step (DTH)	.0800
Number of Iterations Required after Time Step Reduction (ITERR)	0
Flow at Upstream End of Model (QU(1), cfs)	8889.85
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1449.18
Flow at Downstream End of Model (QU(N), cfs)	22998.61
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1231.15

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.500	1449.18	2.06	4319.	3775.	3775.	8.890	.0782
4.053	1424.58	2.65	3376.	2828.	2828.	8.955	.0500
4.742	1406.66	1.26	10197.	4743.	4743.	12.879	.1300
5.936	1373.37	.82	16057.	15243.	15243.	13.228	.1400
6.380	1361.07	.96	13975.	11789.	11789.	13.383	.1256
6.530	1356.94	.97	13875.	11524.	11524.	13.432	.1254
6.680	1352.82	.98	13788.	11302.	11302.	13.481	.1251
6.830	1348.71	.99	13691.	11082.	11082.	13.531	.1246
6.980	1344.61	1.00	13554.	10804.	10804.	13.589	.1239
7.130	1340.52	1.03	13319.	10366.	10366.	13.658	.1229
7.280	1336.44	1.07	12870.	9585.	9585.	13.744	.1214
7.430	1332.29	1.22	11334.	7950.	7950.	13.839	.1204
8.420	1308.43	1.08	14644.	12290.	12290.	15.772	.1054
9.183	1289.55	1.57	11273.	4131.	4131.	17.723	.1400
9.921	1274.12	.83	23673.	14157.	14157.	19.733	.1598
10.226	1267.66	.87	23293.	13220.	13220.	20.162	.1579
10.530	1260.72	1.01	20443.	12164.	12164.	20.637	.1500
10.830	1250.91	2.27	9569.	5190.	5190.	21.728	.0877
11.130	1240.86	2.47	9039.	4115.	4115.	22.293	.0800
11.430	1231.47	.79	29103.	6411.	6411.	22.940	.1500

Maximum Froude Number (FRDM)	.43
Cross-Section of Maximum Froude Number (IFR)	18
Minimum Froude Number (FRM)	.04
Cross-Section of Minimum Froude Number (IFM)	291

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Time (TT)	61.4406
Time Step (DTH)	.0800
Number of Iterations Required after Time Step Reduction (ITERR)	0
Flow at Upstream End of Model (QU(1), cfs)	8389.84
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1449.12
Flow at Downstream End of Model (QU(N), cfs)	18746.94
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1231.18

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.500	1449.12	2.06	4078.	3622.	3622.	8.390	.0776
4.053	1424.54	2.60	3253.	2808.	2808.	8.457	.0500
4.742	1406.60	1.25	9905.	4674.	4674.	12.382	.1300
5.936	1373.34	.82	15593.	15025.	15025.	12.732	.1400
6.380	1361.03	.95	13530.	11487.	11487.	12.890	.1258
6.530	1356.90	.96	13437.	11233.	11233.	12.939	.1255
6.680	1352.78	.97	13361.	11028.	11028.	12.987	.1252
6.830	1348.67	.98	13275.	10828.	10828.	13.033	.1248
6.980	1344.57	.99	13144.	10573.	10573.	13.077	.1241
7.130	1340.48	1.02	12912.	10161.	10161.	13.120	.1231
7.280	1336.40	1.06	12469.	9419.	9419.	13.159	.1217
7.430	1332.24	1.20	10988.	7860.	7860.	13.193	.1208
8.420	1307.94	1.40	9860.	7587.	7587.	13.786	.0879
9.183	1289.20	1.47	9823.	4013.	4013.	14.456	.1400
9.921	1272.93	.95	16449.	2704.	2704.	15.571	.0500
10.226	1267.43	.81	20249.	12547.	12547.	16.468	.1584
10.530	1260.51	.96	17906.	11539.	11539.	17.126	.1500
10.830	1250.36	2.46	7323.	3365.	3365.	18.038	.0800
11.130	1240.54	2.37	7757.	3762.	3762.	18.357	.0800
11.430	1231.40	.65	28636.	6333.	6333.	18.667	.1500

Maximum Froude Number (FRDM)	.43
Cross-Section of Maximum Froude Number (IFR)	18
Minimum Froude Number (FRM)	.03
Cross-Section of Minimum Froude Number (IFM)	291

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Time (TT)	63.4407
Time Step (DTH)	.0800
Number of Iterations Required after Time Step Reduction (ITERR)	0
Flow at Upstream End of Model (QU(1), cfs)	7889.83
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1449.05
Flow at Downstream End of Model (QU(N), cfs)	15215.15
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1231.19

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.500	1449.05	2.06	3833.	3459.	3459.	7.890	.0770
4.053	1424.49	2.54	3127.	2787.	2787.	7.957	.0500
4.742	1406.54	1.24	9610.	4603.	4603.	11.886	.1300
5.936	1373.31	.81	15133.	14805.	14805.	12.242	.1400
6.380	1360.99	.95	13083.	11175.	11175.	12.400	.1259
6.530	1356.86	.96	13000.	10934.	10934.	12.449	.1257
6.680	1352.74	.97	12933.	10745.	10745.	12.498	.1254
6.830	1348.63	.98	12862.	10571.	10571.	12.544	.1249
6.980	1344.53	.99	12751.	10347.	10347.	12.590	.1243
7.130	1340.44	1.01	12542.	9972.	9972.	12.631	.1234
7.280	1336.36	1.04	12132.	9278.	9278.	12.670	.1220
7.430	1332.21	1.18	10724.	7791.	7791.	12.704	.1211
8.420	1307.74	1.64	8497.	5561.	5561.	13.905	.0820
9.183	1289.13	1.45	9566.	3992.	3992.	13.908	.1400
9.921	1271.82	1.03	13630.	2363.	2363.	14.085	.0500
10.226	1267.27	.78	18350.	12108.	12108.	14.323	.1588
10.530	1260.33	.91	15916.	11024.	11024.	14.528	.1500
10.830	1250.04	2.37	6298.	3054.	3054.	14.947	.0800
11.130	1240.23	2.27	6645.	3426.	3426.	15.097	.0800
11.430	1231.33	.54	28206.	6260.	6260.	15.225	.1500

Maximum Froude Number (FRDM)	.43
Cross-Section of Maximum Froude Number (IFR)	18
Minimum Froude Number (FRM)	.03
Cross-Section of Minimum Froude Number (IFM)	291

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Time (TT)	65.4407
Time Step (DTH)	.0800
Number of Iterations Required after Time Step Reduction (ITERR)	1
Flow at Upstream End of Model (QU(1), cfs)	7426.54
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1448.98
Flow at Downstream End of Model (QU(N), cfs)	14035.56
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1231.21

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.500	1448.98	2.06	3602.	3298.	3298.	7.427	.0763
4.053	1424.45	2.49	3002.	2767.	2767.	7.472	.0500
4.742	1406.47	1.22	9312.	4531.	4531.	11.389	.1300
5.936	1373.27	.80	14661.	14577.	14577.	11.747	.1400
6.380	1360.95	.94	12628.	10848.	10848.	11.910	.1261
6.530	1356.82	.95	12553.	10619.	10619.	11.960	.1259
6.680	1352.70	.96	12499.	10451.	10451.	12.009	.1256
6.830	1348.59	.97	12443.	10303.	10303.	12.057	.1251
6.980	1344.49	.98	12352.	10112.	10112.	12.101	.1245
7.130	1340.41	1.00	12168.	9777.	9777.	12.145	.1236
7.280	1336.33	1.03	11795.	9134.	9134.	12.185	.1223
7.430	1332.17	1.17	10464.	7722.	7722.	12.219	.1215
8.420	1307.74	1.64	8498.	5562.	5562.	13.908	.0820
9.183	1289.13	1.45	9564.	3991.	3991.	13.904	.1400
9.921	1271.64	1.05	13204.	2307.	2307.	13.918	.0500
10.226	1267.24	.77	17996.	12025.	12025.	13.940	.1589
10.530	1260.29	.90	15466.	10905.	10905.	13.964	.1500
10.830	1249.93	2.35	5977.	2950.	2950.	14.023	.0800
11.130	1240.11	2.24	6271.	3306.	3306.	14.046	.0800
11.430	1231.33	.50	28190.	6258.	6258.	14.062	.1500

Maximum Froude Number (FRDM)	.42
Cross-Section of Maximum Froude Number (IFR)	18
Minimum Froude Number (FRM)	.02
Cross-Section of Minimum Froude Number (IFM)	291

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Time (TT)	67.4408
Time Step (DTH)	.0800
Number of Iterations Required after Time Step Reduction (ITERR)	0
Flow at Upstream End of Model (QU(1), cfs)	7093.20
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1448.93
Flow at Downstream End of Model (QU(N), cfs)	13921.74
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1231.21

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.500	1448.93	2.07	3432.	3175.	3175.	7.093	.0758
4.053	1424.42	2.45	2915.	2753.	2753.	7.140	.0500
4.742	1406.42	1.21	9091.	4476.	4476.	11.028	.1300
5.936	1373.24	.79	14207.	14354.	14354.	11.275	.1400
6.380	1360.91	.94	12165.	10506.	10506.	11.421	.1262
6.530	1356.77	.95	12100.	10291.	10291.	11.471	.1260
6.680	1352.65	.96	12059.	10144.	10144.	11.521	.1258
6.830	1348.55	.96	12018.	10024.	10024.	11.568	.1253
6.980	1344.45	.97	11949.	9869.	9869.	11.615	.1247
7.130	1340.37	.99	11791.	9576.	9576.	11.658	.1239
7.280	1336.29	1.02	11452.	8985.	8985.	11.698	.1226
7.430	1332.14	1.15	10204.	7652.	7652.	11.733	.1218
8.420	1306.27	2.52	4757.	1820.	1820.	11.969	.0700
9.183	1289.11	1.44	9466.	3983.	3983.	13.670	.1400
9.921	1271.62	1.06	13169.	2302.	2302.	13.895	.0500
10.226	1267.24	.77	17965.	12017.	12017.	13.906	.1589
10.530	1260.29	.90	15421.	10893.	10893.	13.908	.1500
10.830	1249.92	2.34	5939.	2937.	2937.	13.915	.0800
11.130	1240.10	2.24	6225.	3291.	3291.	13.917	.0800
11.430	1231.33	.49	28185.	6257.	6257.	13.920	.1500

Maximum Froude Number (FRDM)	.42
Cross-Section of Maximum Froude Number (IFR)	18
Minimum Froude Number (FRM)	.02
Cross-Section of Minimum Froude Number (IFM)	291

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Time (TT)	69.4408
Time Step (DTH)	.0800
Number of Iterations Required after Time Step Reduction (ITERR)	0
Flow at Upstream End of Model (QU(1), cfs)	6759.86
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1448.87
Flow at Downstream End of Model (QU(N), cfs)	13727.48
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1231.20

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.500	1448.87	2.07	3259.	3044.	3044.	6.760	.0753
4.053	1424.38	2.41	2827.	2738.	2738.	6.807	.0500
4.742	1406.38	1.20	8888.	4425.	4425.	10.696	.1300
5.936	1373.22	.79	13881.	14192.	14192.	10.940	.1400
6.380	1360.88	.94	11811.	10235.	10235.	11.055	.1263
6.530	1356.74	.94	11736.	10019.	10019.	11.089	.1262
6.680	1352.62	.95	11691.	9881.	9881.	11.121	.1259
6.830	1348.51	.96	11651.	9777.	9777.	11.154	.1255
6.980	1344.42	.97	11587.	9645.	9645.	11.186	.1250
7.130	1340.33	.98	11443.	9387.	9387.	11.217	.1241
7.280	1336.25	1.01	11129.	8843.	8843.	11.246	.1229
7.430	1332.11	1.13	9947.	7583.	7583.	11.273	.1221
8.420	1306.17	2.51	4582.	1764.	1764.	11.482	.0700
9.183	1288.86	1.37	8501.	3902.	3902.	11.639	.1400
9.921	1270.63	1.09	11039.	1998.	1998.	12.048	.0500
10.226	1267.14	.75	16805.	11739.	11739.	12.595	.1591
10.530	1260.22	.88	14725.	10705.	10705.	13.006	.1500
10.830	1249.87	2.33	5788.	2887.	2887.	13.466	.0800
11.130	1240.07	2.22	6112.	3254.	3254.	13.595	.0800
11.430	1231.32	.49	28116.	6245.	6245.	13.693	.1500

Maximum Froude Number (FRDM)	.42
Cross-Section of Maximum Froude Number (IFR)	18
Minimum Froude Number (FRM)	.02
Cross-Section of Minimum Froude Number (IFM)	291

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Time (TT)	71.4409
Time Step (DTH)	.0800
Number of Iterations Required after Time Step Reduction (ITERR)	0
Flow at Upstream End of Model (QU(1), cfs)	6426.52
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1448.81
Flow at Downstream End of Model (QU(N), cfs)	12003.06
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1231.20

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.500	1448.81	2.09	3081.	2904.	2904.	6.427	.0747
4.053	1424.35	2.37	2738.	2723.	2723.	6.475	.0500
4.742	1406.33	1.19	8684.	4373.	4373.	10.365	.1300
5.936	1373.20	.78	13559.	14030.	14030.	10.609	.1400
6.380	1360.84	.93	11490.	9985.	9985.	10.725	.1264
6.530	1356.71	.94	11423.	9779.	9779.	10.761	.1263
6.680	1352.59	.95	11387.	9657.	9657.	10.795	.1260
6.830	1348.48	.95	11358.	9575.	9575.	10.827	.1257
6.980	1344.39	.96	11309.	9470.	9470.	10.858	.1251
7.130	1340.30	.97	11182.	9243.	9243.	10.888	.1243
7.280	1336.23	1.00	10891.	8737.	8737.	10.916	.1231
7.430	1332.08	1.12	9758.	7531.	7531.	10.939	.1224
8.420	1306.10	2.49	4460.	1724.	1724.	11.121	.0700
9.183	1288.81	1.35	8297.	3884.	3884.	11.220	.1400
9.921	1269.99	1.16	9823.	1801.	1801.	11.391	.0500
10.226	1267.06	.73	15845.	11504.	11504.	11.583	.1593
10.530	1260.12	.86	13667.	10412.	10412.	11.714	.1500
10.830	1249.67	2.28	5235.	2694.	2694.	11.922	.0800
11.130	1239.88	2.17	5523.	3051.	3051.	11.981	.0800
11.430	1231.29	.43	27922.	6212.	6212.	12.028	.1500

Maximum Froude Number (FRDM)	.42
Cross-Section of Maximum Froude Number (IFR)	18
Minimum Froude Number (FRM)	.02
Cross-Section of Minimum Froude Number (IFM)	291

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Time (TT)	73.4409
Time Step (DTH)	.0800
Number of Iterations Required after Time Step Reduction (ITERR)	1
Flow at Upstream End of Model (QU(1), cfs)	6093.18
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1448.75
Flow at Downstream End of Model (QU(N), cfs)	11321.00
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1231.20

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.500	1448.75	2.10	2898.	2751.	2751.	6.093	.0741
4.053	1424.32	2.32	2647.	2708.	2708.	6.142	.0500
4.742	1406.28	1.18	8478.	4321.	4321.	10.033	.1300
5.936	1373.17	.78	13236.	13865.	13865.	10.281	.1400
6.380	1360.81	.93	11166.	9725.	9725.	10.399	.1265
6.530	1356.67	.94	11106.	9531.	9531.	10.434	.1264
6.680	1352.55	.94	11079.	9426.	9426.	10.469	.1262
6.830	1348.45	.95	11066.	9368.	9368.	10.503	.1258
6.980	1344.36	.96	11030.	9291.	9291.	10.535	.1253
7.130	1340.27	.97	10922.	9096.	9096.	10.564	.1245
7.280	1336.20	.99	10655.	8630.	8630.	10.592	.1233
7.430	1332.05	1.12	9513.	7464.	7464.	10.615	.1228
8.420	1306.28	2.48	4781.	1827.	1827.	11.865	.0700
9.183	1288.81	1.35	8278.	3883.	3883.	11.209	.1400
9.921	1269.71	1.19	9330.	1715.	1715.	11.060	.0500
10.226	1267.03	.72	15437.	11402.	11402.	11.157	.1594
10.530	1260.08	.85	13250.	10295.	10295.	11.212	.1500
10.830	1249.58	2.26	5005.	2609.	2609.	11.293	.0800
11.130	1239.80	2.15	5279.	2963.	2963.	11.328	.0800
11.430	1231.29	.41	27906.	6209.	6209.	11.344	.1500

Maximum Froude Number (FRDM)	.42
Cross-Section of Maximum Froude Number (IFR)	19
Minimum Froude Number (FRM)	.02
Cross-Section of Minimum Froude Number (IFM)	291

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Time (TT)	75.4410
Time Step (DTH)	.0800
Number of Iterations Required after Time Step Reduction (ITERR)	0
Flow at Upstream End of Model (QU(1), cfs)	5759.84
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1448.67
Flow at Downstream End of Model (QU(N), cfs)	11247.33
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1231.21

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.500	1448.67	2.13	2706.	2583.	2583.	5.760	.0735
4.053	1424.28	2.27	2554.	2692.	2692.	5.810	.0500
4.742	1406.23	1.17	8270.	4267.	4267.	9.702	.1300
5.936	1373.15	.77	12913.	13698.	13698.	9.955	.1400
6.380	1360.78	.93	10836.	9453.	9453.	10.071	.1267
6.530	1356.64	.94	10782.	9270.	9270.	10.108	.1265
6.680	1352.52	.94	10767.	9185.	9185.	10.142	.1263
6.830	1348.42	.95	10765.	9152.	9152.	10.176	.1260
6.980	1344.33	.95	10747.	9106.	9106.	10.208	.1255
7.130	1340.25	.96	10657.	8945.	8945.	10.237	.1247
7.280	1336.17	.99	10416.	8521.	8521.	10.265	.1235
7.430	1332.02	1.10	9324.	7412.	7412.	10.289	.1230
8.420	1305.96	2.47	4226.	1644.	1644.	10.435	.0700
9.183	1288.72	1.32	7956.	3855.	3855.	10.529	.1400
9.921	1269.72	1.16	9341.	1717.	1717.	10.823	.0500
10.226	1267.03	.72	15511.	11421.	11421.	11.220	.1594
10.530	1260.10	.85	13441.	10349.	10349.	11.440	.1500
10.830	1249.60	2.26	5051.	2626.	2626.	11.426	.0800
11.130	1239.80	2.15	5289.	2967.	2967.	11.362	.0800
11.430	1231.30	.40	27966.	6220.	6220.	11.282	.1500

Maximum Froude Number (FRDM)	.42
Cross-Section of Maximum Froude Number (IFR)	19
Minimum Froude Number (FRM)	.02
Cross-Section of Minimum Froude Number (IFM)	291

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Time (TT)	77.4410
Time Step (DTH)	.0800
Number of Iterations Required after Time Step Reduction (ITERR)	0
Flow at Upstream End of Model (QU(1), cfs)	5426.50
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1448.59
Flow at Downstream End of Model (QU(N), cfs)	10890.16
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1231.20

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.500	1448.59	2.17	2502.	2390.	2390.	5.426	.0727
4.053	1424.25	2.23	2460.	2676.	2676.	5.478	.0500
4.742	1406.18	1.16	8061.	4212.	4212.	9.371	.1300
5.936	1373.13	.76	12584.	13527.	13527.	9.626	.1400
6.380	1360.74	.93	10501.	9168.	9168.	9.745	.1268
6.530	1356.60	.94	10453.	8997.	8997.	9.781	.1267
6.680	1352.49	.94	10451.	8935.	8935.	9.817	.1265
6.830	1348.38	.94	10465.	8930.	8930.	9.853	.1261
6.980	1344.29	.94	10463.	8916.	8916.	9.885	.1256
7.130	1340.22	.95	10394.	8792.	8792.	9.916	.1249
7.280	1336.14	.98	10178.	8411.	8411.	9.944	.1238
7.430	1332.00	1.09	9136.	7359.	7359.	9.968	.1233
8.420	1305.89	2.46	4113.	1604.	1604.	10.112	.0700
9.183	1288.68	1.31	7793.	3841.	3841.	10.205	.1400
9.921	1269.22	1.22	8516.	1563.	1563.	10.347	.0500
10.226	1266.97	.71	14808.	11244.	11244.	10.499	.1595
10.530	1260.03	.83	12727.	10146.	10146.	10.585	.1500
10.830	1249.50	2.24	4800.	2531.	2531.	10.735	.0800
11.130	1239.73	2.13	5085.	2891.	2891.	10.813	.0800
11.430	1231.28	.39	27853.	6200.	6200.	10.877	.1500

Maximum Froude Number (FRDM)	.42
Cross-Section of Maximum Froude Number (IFR)	19
Minimum Froude Number (FRM)	.02
Cross-Section of Minimum Froude Number (IFM)	291

- - - - - - - - - - - - - - - - NEXT CYCLE - - - - - - - - - - - - - - - -

Time (TT)	79.4411
Time Step (DTH)	.0800
Number of Iterations Required after Time Step Reduction (ITERR)	0
Flow at Upstream End of Model (QU(1), cfs)	5093.16
Water Elevation at Upstream End of Model (YU(1), ft MSL)	1448.50
Flow at Downstream End of Model (QU(N), cfs)	10366.78
Water Elevation at Downstream End of Model (YU(N), ft MSL)	1231.20

River Location X(I) (mi)	Water Surface Elevation Y (ft MSL)	Flow Velocity V (ft/s)	Flow Area A (sq ft)	Channel Top Width B (ft)	Top Width Including Storage BT (ft)	Flow Q*1000 (cfs)	Mannings n CMM
3.500	1448.50	2.21	2301.	2182.	2182.	5.093	.0720
4.053	1424.21	2.18	2363.	2659.	2659.	5.142	.0500
4.742	1406.13	1.15	7847.	4155.	4155.	9.038	.1300
5.936	1373.10	.76	12256.	13353.	13353.	9.300	.1400
6.380	1360.70	.93	10162.	8871.	8871.	9.422	.1269
6.530	1356.57	.93	10121.	8713.	8713.	9.459	.1268
6.680	1352.45	.94	10131.	8674.	8674.	9.494	.1266
6.830	1348.35	.94	10160.	8700.	8700.	9.529	.1263
6.980	1344.26	.94	10175.	8719.	8719.	9.561	.1258
7.130	1340.19	.95	10126.	8634.	8634.	9.592	.1251
7.280	1336.11	.97	9934.	8296.	8296.	9.620	.1240
7.430	1331.97	1.08	8946.	7306.	7306.	9.644	.1235
8.420	1305.82	2.45	4002.	1564.	1564.	9.798	.0700
9.183	1288.64	1.30	7630.	3827.	3827.	9.885	.1400
9.921	1268.94	1.24	8094.	1477.	1477.	10.005	.0500
10.226	1266.94	.70	14433.	11149.	11149.	10.116	.1596
10.530	1260.00	.82	12389.	10048.	10048.	10.189	.1500
10.830	1249.43	2.22	4628.	2465.	2465.	10.285	.0800
11.130	1239.66	2.11	4892.	2818.	2818.	10.312	.0800
11.430	1231.27	.37	27822.	6195.	6195.	10.340	.1500

Maximum Froude Number (FRDM)	.42
Cross-Section of Maximum Froude Number (IFR)	19
Minimum Froude Number (FRM)	.02
Cross-Section of Minimum Froude Number (IFM)	291

Normalized conservation of mass as percent of maximum flow in reach = -.02

ROUTING COMPLETED :

Number of Time Steps Used (KTIME)	1006
Maximum Number of Time Steps Allowed	1199
Total Time of Flood Routing (TT, hr)	80.0

FLOOD CREST SUMMARY :

Cross Section Location (mi)	Maximum Stage Elevation (ft MSL)	Maximum Flow (cfs)	Time To Maximum Stage (hr)	Maximum Flow Velocity (ft/sec)	Flood Elevation (ft MSL)	Time To Flood Elevation (hr)
3.500	1456.60	273802	44.080	5.65	1450.00	42.32
3.568	1452.91	273427	44.080	5.81	1160.00	.00
3.636	1449.27	272085	44.160	5.89	870.00	.00
3.704	1445.75	271455	44.160	5.88	580.00	.00
3.772	1442.25	271833	44.160	5.85	290.00	.00
3.840	1438.73	271648	44.240	5.89	-.00	.00
3.861	1438.26	271403	44.240	5.89	94.80	.00
3.883	1437.81	271073	44.240	5.89	189.60	.00
3.904	1437.40	270642	44.320	5.87	284.40	.00
3.925	1437.01	270088	44.320	5.84	379.20	.00
3.947	1436.66	269392	44.320	5.79	474.00	.00
3.968	1436.34	268536	44.320	5.71	568.80	.00
3.989	1436.05	267507	44.320	5.61	663.60	.00
4.011	1435.80	266296	44.320	5.48	758.40	.00
4.032	1435.57	264904	44.320	5.34	853.20	.00
4.053	1435.38	263340	44.320	5.18	948.00	.00
4.075	1435.21	262438	44.320	4.99	1042.80	.00
4.096	1435.07	261634	44.320	4.78	1137.59	.00
4.117	1434.94	261210	44.320	4.56	1232.39	.00
4.139	1434.84	261092	44.320	4.33	1327.19	.00
4.160	1434.75	260967	44.320	4.11	1421.99	42.40
4.212	1433.39	260598	44.320	4.01	1263.99	.00
4.264	1431.52	259922	44.400	3.86	1106.00	.00
4.317	1429.51	260016	44.400	3.73	948.00	.00
4.369	1427.46	260018	44.400	3.55	790.00	.00
4.421	1425.39	260036	44.400	3.41	632.00	.00
4.473	1423.30	259735	44.400	3.27	474.00	.00
4.526	1421.24	259347	44.480	3.20	316.00	.00
4.578	1419.46	259064	44.480	2.95	158.00	.00
4.630	1418.38	259063	44.480	2.38	.00	.00
4.742	1415.16	307632	44.480	2.70	.00	.00
4.855	1411.73	306570	44.560	2.68	.00	.00
4.967	1408.34	305930	44.640	2.66	.00	.00
5.080	1404.49	305353	44.640	2.89	.00	.00
5.190	1400.80	304796	44.720	2.76	346.75	.00
5.300	1397.16	304297	44.720	2.64	693.50	.00
5.410	1393.51	303549	44.800	2.57	1040.25	.00
5.520	1390.28	302968	44.800	2.30	1387.00	43.76
5.572	1388.71	302480	44.880	2.29	1385.67	43.92
5.624	1387.16	301927	44.880	2.29	1384.33	44.08
5.676	1385.62	301829	44.880	2.28	1383.00	44.16
5.728	1384.09	301434	44.960	2.27	1381.67	44.32
5.780	1382.59	300706	44.960	2.27	1380.33	44.32
5.832	1381.10	300662	44.960	2.26	1379.00	44.40
5.884	1379.62	300331	44.960	2.25	1377.67	44.48
5.936	1378.16	299678	45.040	2.24	1376.33	44.48
5.988	1376.72	299481	45.040	2.23	1375.00	44.56
6.040	1375.28	299202	45.040	2.22	1373.67	44.56

FLOOD CREST SUMMARY :

Cross Section Location (mi)	Maximum Stage Elevation (ft MSL)	Maximum Flow (cfs)	Time To Maximum Stage (hr)	Maximum Flow Velocity (ft/sec)	Flood Elevation (ft MSL)	Time To Flood Elevation (hr)
6.092	1373.87	298596	45.120	2.21	1372.33	44.64
6.144	1372.47	298268	45.120	2.21	1371.00	44.64
6.196	1371.07	298013	45.120	2.20	1369.67	44.72
6.248	1369.68	297418	45.200	2.20	1368.33	44.72
6.300	1368.25	296928	45.200	2.23	1367.00	44.80
6.310	1367.99	296883	45.200	2.23	1366.69	44.80
6.320	1367.73	296824	45.200	2.23	1366.39	44.80
6.330	1367.46	296751	45.200	2.23	1366.08	44.80
6.340	1367.20	296666	45.200	2.23	1365.77	44.80
6.350	1366.94	296564	45.280	2.23	1365.46	44.80
6.360	1366.68	296448	45.280	2.23	1365.16	44.80
6.370	1366.42	296317	45.280	2.23	1364.85	44.80
6.380	1366.17	296169	45.280	2.23	1364.54	44.80
6.390	1365.91	296004	45.280	2.23	1364.24	44.80
6.400	1365.65	295824	45.280	2.23	1363.93	44.80
6.410	1365.39	295625	45.280	2.23	1363.62	44.80
6.420	1365.13	295434	45.280	2.24	1363.32	44.80
6.430	1364.88	295400	45.280	2.24	1363.01	44.80
6.440	1364.62	295352	45.320	2.24	1362.70	44.80
6.450	1364.36	295290	45.320	2.24	1362.39	44.80
6.460	1364.11	295214	45.320	2.23	1362.09	44.80
6.470	1363.85	295122	45.320	2.23	1361.78	44.80
6.480	1363.60	295015	45.320	2.23	1361.47	44.80
6.490	1363.34	294891	45.320	2.23	1361.17	44.80
6.500	1363.09	294748	45.320	2.23	1360.86	44.80
6.510	1362.83	294589	45.360	2.23	1360.55	44.80
6.520	1362.58	294434	45.360	2.23	1360.25	44.80
6.530	1362.33	294343	45.360	2.23	1359.94	44.80
6.540	1362.08	294238	45.360	2.23	1359.63	44.80
6.550	1361.82	294115	45.360	2.23	1359.32	44.80
6.560	1361.57	293975	45.360	2.23	1359.02	44.80
6.570	1361.32	293815	45.360	2.23	1358.71	44.80
6.580	1361.07	293649	45.360	2.22	1358.40	44.80
6.590	1360.82	293573	45.360	2.22	1358.10	44.80
6.600	1360.56	293483	45.360	2.22	1357.79	44.80
6.610	1360.31	293377	45.440	2.22	1357.48	44.80
6.620	1360.06	293257	45.440	2.22	1357.18	44.80
6.630	1359.81	293122	45.440	2.21	1356.87	44.80
6.640	1359.56	292974	45.440	2.21	1356.56	44.80
6.650	1359.31	292812	45.440	2.21	1356.25	44.80
6.660	1359.06	292638	45.440	2.21	1355.95	44.80
6.670	1358.80	292451	45.440	2.20	1355.64	44.80
6.680	1358.55	292331	45.440	2.20	1355.33	44.80
6.690	1358.30	292325	45.440	2.20	1355.03	44.80
6.700	1358.04	292309	45.440	2.19	1354.72	44.80
6.710	1357.78	292285	45.440	2.19	1354.41	44.80
6.720	1357.53	292251	45.440	2.19	1354.10	44.88
6.730	1357.27	292208	45.440	2.18	1353.80	44.88

FLOOD CREST SUMMARY :

Cross Section Location (mi)	Maximum Stage Elevation (ft MSL)	Maximum Flow (cfs)	Time To Maximum Stage (hr)	Maximum Flow Velocity (ft/sec)	Flood Elevation (ft MSL)	Time To Flood Elevation (hr)
6.740	1357.01	292158	45.440	2.18	1353.49	44.88
6.750	1356.75	292095	45.440	2.18	1353.18	44.88
6.760	1356.50	292018	45.440	2.19	1352.88	44.88
6.770	1356.24	291930	45.520	2.19	1352.57	44.88
6.780	1355.98	291828	45.520	2.19	1352.26	44.88
6.790	1355.73	291714	45.520	2.19	1351.96	44.88
6.800	1355.47	291589	45.520	2.19	1351.65	44.88
6.810	1355.21	291452	45.520	2.19	1351.34	44.88
6.820	1354.96	291303	45.520	2.19	1351.03	44.88
6.830	1354.70	291142	45.520	2.19	1350.73	44.88
6.840	1354.44	291087	45.520	2.19	1350.42	44.88
6.850	1354.19	291079	45.520	2.19	1350.11	44.88
6.860	1353.93	291064	45.520	2.19	1349.81	44.88
6.870	1353.67	291038	45.520	2.19	1349.50	44.88
6.880	1353.42	291000	45.520	2.19	1349.19	44.88
6.890	1353.16	290953	45.560	2.19	1348.89	44.88
6.900	1352.90	290896	45.560	2.19	1348.58	44.88
6.910	1352.65	290828	45.560	2.19	1348.27	44.88
6.920	1352.39	290748	45.560	2.19	1347.96	44.88
6.930	1352.13	290657	45.560	2.20	1347.66	44.88
6.940	1351.88	290554	45.560	2.20	1347.35	44.96
6.950	1351.62	290469	45.560	2.20	1347.04	44.96
6.960	1351.36	290434	45.560	2.20	1346.74	44.96
6.970	1351.11	290389	45.600	2.20	1346.43	44.96
6.980	1350.85	290331	45.600	2.20	1346.12	44.96
6.990	1350.60	290264	45.600	2.20	1345.82	44.96
7.000	1350.34	290187	45.600	2.20	1345.51	44.96
7.010	1350.08	290096	45.600	2.20	1345.20	44.96
7.020	1349.83	289991	45.610	2.20	1344.89	44.96
7.030	1349.57	289874	45.610	2.20	1344.59	44.96
7.040	1349.32	289829	45.610	2.20	1344.28	44.96
7.050	1349.06	289784	45.610	2.20	1343.97	44.96
7.060	1348.80	289727	45.610	2.20	1343.67	44.96
7.070	1348.55	289660	45.610	2.20	1343.36	44.96
7.080	1348.29	289592	45.610	2.21	1343.05	44.96
7.090	1348.04	289529	45.610	2.21	1342.74	44.96
7.100	1347.78	289453	45.680	2.21	1342.44	44.96
7.110	1347.52	289364	45.680	2.21	1342.13	44.96
7.120	1347.27	289267	45.680	2.21	1341.82	44.96
7.130	1347.01	289158	45.680	2.21	1341.52	44.96
7.140	1346.76	289034	45.680	2.21	1341.21	44.96
7.150	1346.50	288900	45.680	2.21	1340.90	45.04
7.160	1346.25	288752	45.680	2.21	1340.60	45.04
7.170	1345.99	288732	45.680	2.21	1340.29	45.04
7.180	1345.73	288721	45.680	2.21	1339.98	45.04
7.190	1345.48	288699	45.680	2.22	1339.67	45.04
7.200	1345.22	288669	45.680	2.22	1339.37	45.04
7.210	1344.96	288633	45.680	2.22	1339.06	45.04

FLOOD CREST SUMMARY :

Cross Section Location (mi)	Maximum Stage Elevation (ft MSL)	Maximum Flow (cfs)	Time To Maximum Stage (hr)	Maximum Flow Velocity (ft/sec)	Flood Elevation (ft MSL)	Time To Flood Elevation (hr)
7.220	1344.71	288589	45.680	2.22	1338.75	45.04
7.230	1344.45	288533	45.680	2.22	1338.45	45.04
7.240	1344.19	288472	45.680	2.22	1338.14	45.04
7.250	1343.93	288401	45.680	2.23	1337.83	45.04
7.260	1343.67	288319	45.680	2.23	1337.53	45.04
7.270	1343.41	288228	45.760	2.23	1337.22	45.04
7.280	1343.15	288128	45.760	2.24	1336.91	45.04
7.290	1342.88	288019	45.760	2.24	1336.60	45.04
7.300	1342.62	287904	45.760	2.25	1336.30	45.04
7.310	1342.35	287786	45.760	2.25	1335.99	45.04
7.320	1342.08	287700	45.760	2.26	1335.68	45.04
7.330	1341.81	287713	45.760	2.27	1335.38	45.04
7.340	1341.53	287719	45.760	2.28	1335.07	45.04
7.350	1341.25	287724	45.760	2.30	1334.76	45.04
7.360	1340.97	287735	45.760	2.31	1334.46	45.04
7.370	1340.67	287750	45.760	2.33	1334.15	45.04
7.380	1340.37	287768	45.760	2.36	1333.84	45.04
7.390	1340.05	287782	45.760	2.39	1333.53	45.04
7.400	1339.72	287756	45.760	2.43	1333.23	45.04
7.410	1339.36	287686	45.760	2.48	1332.92	45.04
7.420	1338.98	287632	45.760	2.55	1332.61	45.04
7.430	1338.54	287656	45.760	2.66	1332.31	45.04
7.440	1338.02	287608	45.760	2.91	1332.00	45.12
7.525	1335.60	287001	45.840	2.81	1330.12	45.12
7.610	1333.20	286825	45.840	2.84	1328.25	45.20
7.695	1330.81	286827	45.920	2.94	1326.37	45.28
7.780	1328.44	285804	45.920	2.90	1324.50	45.32
7.865	1326.04	284494	46.000	3.25	1322.62	45.44
7.950	1323.65	284229	46.080	4.13	1320.75	45.52
8.035	1321.48	283040	46.080	3.87	1318.87	45.56
8.120	1319.92	281859	46.160	4.34	1317.00	45.60
8.170	1318.84	281323	46.160	3.95	1247.68	.00
8.220	1317.78	280332	46.240	3.61	1178.37	.00
8.270	1316.71	279116	46.280	3.41	1109.05	.00
8.320	1315.64	278358	46.320	3.24	1039.74	.00
8.370	1314.58	277367	46.320	3.05	970.42	.00
8.420	1313.52	276309	46.400	2.92	901.10	.00
8.470	1312.47	274886	46.440	2.79	831.79	.00
8.520	1311.43	273757	46.520	2.65	762.47	.00
8.570	1310.40	272660	46.560	2.50	693.16	.00
8.620	1309.38	271134	46.640	2.34	623.84	.00
8.670	1308.38	269724	46.720	2.36	554.52	.00
8.720	1307.40	267736	46.800	2.32	485.21	.00
8.770	1306.44	265643	46.800	2.35	415.89	.00
8.820	1305.49	263350	46.880	2.38	346.58	.00
8.870	1304.55	261206	46.960	2.31	277.26	.00
8.920	1303.61	259254	47.040	2.37	207.94	.00
8.970	1302.67	257438	47.040	2.34	138.63	.00

FLOOD CREST SUMMARY :

Cross Section Location (mi)	Maximum Stage Elevation (ft MSL)	Maximum Flow (cfs)	Time To Maximum Stage (hr)	Maximum Flow Velocity (ft/sec)	Flood Elevation (ft MSL)	Time To Flood Elevation (hr)
9.020	1301.70	255847	47.120	2.30	69.31	.00
9.070	1300.70	254531	47.120	2.26	-.01	.00
9.126	1299.03	253546	47.200	2.25	91.21	.00
9.183	1297.47	252915	47.280	2.29	182.43	.00
9.239	1295.97	252549	47.280	2.30	273.64	.00
9.296	1294.49	252217	47.360	2.36	364.86	.00
9.352	1293.04	252008	47.360	2.35	456.07	.00
9.409	1291.59	251775	47.360	2.49	547.29	.00
9.465	1290.16	251542	47.440	2.50	638.50	.00
9.521	1288.74	251342	47.440	2.52	729.72	.00
9.578	1287.33	251182	47.520	2.56	820.93	.00
9.634	1285.93	250943	47.520	2.61	912.15	.00
9.691	1284.55	250783	47.600	2.64	1003.36	.00
9.747	1283.22	250454	47.600	2.68	1094.58	.00
9.804	1281.98	250193	47.680	2.79	1185.79	.00
9.860	1280.90	249788	47.760	3.20	1277.01	46.80
9.880	1280.49	249686	47.760	3.01	1276.51	46.80
9.901	1280.08	249566	47.760	2.82	1276.01	46.80
9.921	1279.67	249418	47.760	2.63	1275.51	46.80
9.941	1279.27	249243	47.760	2.44	1275.01	46.88
9.962	1278.86	249061	47.840	2.26	1274.51	46.88
9.982	1278.45	248948	47.840	2.08	1274.01	46.88
10.002	1278.05	248803	47.840	1.91	1273.51	46.88
10.023	1277.64	248629	47.840	1.83	1273.01	46.88
10.043	1277.23	248418	47.840	1.83	1272.51	46.88
10.063	1276.82	248263	47.920	1.83	1272.01	46.88
10.084	1276.41	248136	47.920	1.83	1271.51	46.88
10.104	1276.00	247980	47.920	1.82	1271.00	46.88
10.124	1275.59	247790	47.920	1.81	1270.50	46.96
10.145	1275.17	247566	47.920	1.79	1270.00	46.96
10.165	1274.76	247456	47.920	1.78	1269.50	46.96
10.185	1274.34	247348	48.000	1.78	1269.00	46.96
10.206	1273.91	247208	48.000	1.78	1268.50	46.96
10.226	1273.49	247040	48.000	1.78	1268.00	46.96
10.246	1273.05	246848	48.000	1.77	1267.50	46.96
10.267	1272.61	246761	48.000	1.75	1267.00	46.96
10.287	1272.16	246712	48.000	1.73	1266.50	46.96
10.307	1271.70	246636	48.000	1.70	1266.00	47.04
10.328	1271.23	246541	48.000	1.68	1265.50	47.04
10.348	1270.75	246425	48.080	1.68	1265.00	47.04
10.368	1270.27	246285	48.080	1.69	1264.50	47.04
10.389	1269.78	246184	48.080	1.69	1264.00	47.04
10.409	1269.28	246169	48.080	1.68	1263.50	47.04
10.429	1268.77	246121	48.080	1.67	1263.00	47.04
10.450	1268.23	246043	48.080	1.66	1262.50	47.04
10.470	1267.67	245925	48.160	1.71	1262.00	47.04
10.490	1267.14	245771	48.160	1.74	1228.79	.00
10.510	1266.62	245600	48.160	1.74	1195.58	.00

FLOOD CREST SUMMARY :

Cross Section Location (mi)	Maximum Stage Elevation (ft MSL)	Maximum Flow (cfs)	Time To Maximum Stage (hr)	Maximum Flow Velocity (ft/sec)	Flood Elevation (ft MSL)	Time To Flood Elevation (hr)
10.530	1266.10	245556	48.160	1.73	1162.37	.00
10.550	1265.57	245502	48.160	1.71	1129.16	.00
10.570	1265.04	245394	48.240	1.73	1095.94	.00
10.590	1264.51	245214	48.240	1.74	1062.73	.00
10.610	1263.97	244965	48.240	2.43	1029.52	.00
10.630	1263.43	244756	48.240	2.40	996.31	.00
10.650	1262.88	244646	48.240	2.39	963.10	.00
10.670	1262.32	244475	48.320	2.40	929.89	.00
10.690	1261.77	244247	48.320	2.38	896.68	.00
10.710	1261.21	243952	48.320	2.45	863.47	.00
10.730	1260.65	243741	48.320	2.41	830.25	.00
10.750	1260.09	243621	48.320	2.42	797.04	.00
10.770	1259.53	243442	48.400	2.57	763.83	.00
10.790	1258.97	243192	48.400	2.52	730.62	.00
10.810	1258.40	242867	48.400	2.48	697.41	.00
10.830	1257.83	242696	48.400	2.61	664.20	.00
10.850	1257.26	242560	48.400	2.67	630.99	.00
10.870	1256.69	242353	48.480	2.63	597.78	.00
10.890	1256.11	242078	48.480	2.60	564.56	.00
10.910	1255.54	241739	48.480	2.80	531.35	.00
10.930	1254.96	241607	48.480	2.79	498.14	.00
10.950	1254.37	241450	48.560	2.76	464.93	.00
10.970	1253.79	241231	48.560	2.80	431.72	.00
10.990	1253.20	240953	48.560	2.94	398.51	.00
11.010	1252.60	240612	48.560	2.91	365.30	.00
11.030	1252.00	240496	48.560	2.88	332.08	.00
11.050	1251.39	240342	48.640	3.04	298.87	.00
11.070	1250.78	240131	48.640	3.06	265.66	.00
11.090	1250.16	239858	48.640	3.03	232.45	.00
11.110	1249.53	239525	48.640	3.08	199.24	.00
11.130	1248.88	239426	48.640	3.17	166.03	.00
11.150	1248.22	239292	48.640	3.14	132.82	.00
11.170	1247.53	239115	48.720	3.07	99.61	.00
11.190	1246.81	238894	48.720	2.95	66.39	.00
11.210	1246.05	238628	48.720	2.75	33.18	.00
11.230	1245.24	238576	48.720	2.45	-.03	.00
11.250	1244.42	238523	48.720	2.51	-.03	.00
11.270	1243.64	238432	48.720	2.56	-.03	.00
11.290	1242.88	238311	48.720	2.58	-.02	.00
11.310	1242.14	238163	48.800	2.58	-.02	.00
11.330	1241.42	237992	48.800	2.53	-.02	.00
11.350	1240.73	237969	48.800	2.45	-.02	.00
11.370	1240.05	237994	48.800	2.41	-.02	.00
11.390	1239.39	238014	48.800	2.27	-.02	.00
11.410	1238.75	238039	48.800	2.05	-.01	.00
11.430	1238.14	238089	48.800	2.01	-.01	.00
11.450	1237.56	238200	48.720	1.97	-.01	.00
11.470	1237.03	238404	48.720	1.93	-.01	.00

FLOOD CREST SUMMARY :

Cross Section Location (mi)	Maximum Stage Elevation (ft MSL)	Maximum Flow (cfs)	Time To Maximum Stage (hr)	Maximum Flow Velocity (ft/sec)	Flood Elevation (ft MSL)	Time To Flood Elevation (hr)
11.490	1236.53	238828	48.640	1.88	-.01	.00
11.510	1236.11	239510	48.640	1.85	-.01	.00
11.530	1235.75	240405	48.560	1.81	-.00	.00
11.550	1235.46	241543	48.560	1.77	-.00	.00
11.570	1235.23	242962	48.560	1.75	.00	.00

COMPUTED WATER SURFACE ELEVATIONS AT REQUESTED STATIONS WHERE HYDROGRAPHS ARE PLOTTED :

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
1	.000	1448.48	1408.25	1385.81	1362.84	1292.03	1223.62
2	.080	1448.48	1408.25	1385.81	1362.84	1292.04	1223.77
3	.160	1448.48	1408.25	1385.81	1362.84	1292.04	1223.90
4	.240	1448.48	1408.25	1385.81	1362.84	1292.04	1224.02
5	.320	1448.48	1408.25	1385.81	1362.84	1292.04	1224.13
6	.400	1448.48	1408.25	1385.81	1362.84	1292.04	1224.24
7	.480	1448.48	1408.25	1385.81	1362.84	1292.04	1224.34
8	.560	1448.48	1408.25	1385.81	1362.84	1292.04	1224.43
9	.640	1448.48	1408.25	1385.81	1362.84	1292.04	1224.52
10	.720	1448.48	1408.25	1385.81	1362.84	1292.04	1224.60
11	.800	1448.48	1408.25	1385.81	1362.84	1292.04	1224.68
12	.880	1448.48	1408.25	1385.81	1362.84	1292.04	1224.75
13	.960	1448.48	1408.25	1385.81	1362.84	1292.04	1224.81
14	1.040	1448.48	1408.25	1385.81	1362.84	1292.04	1224.88
15	1.120	1448.48	1408.25	1385.81	1362.84	1292.04	1224.94
16	1.200	1448.48	1408.25	1385.81	1362.84	1292.04	1225.00
17	1.280	1448.48	1408.25	1385.81	1362.84	1292.04	1225.05
18	1.360	1448.48	1408.25	1385.81	1362.84	1292.04	1225.11
19	1.440	1448.48	1408.25	1385.81	1362.84	1292.04	1225.16
20	1.520	1448.48	1408.25	1385.81	1362.84	1292.04	1225.20
21	1.600	1448.48	1408.25	1385.81	1362.84	1292.04	1225.25
22	1.680	1448.48	1408.25	1385.81	1362.84	1292.04	1225.29
23	1.760	1448.48	1408.25	1385.81	1362.84	1292.04	1225.34
24	1.840	1448.48	1408.25	1385.81	1362.84	1292.04	1225.38
25	1.920	1448.48	1408.25	1385.81	1362.84	1292.04	1225.42
26	2.000	1448.48	1408.25	1385.81	1362.84	1292.04	1225.46
27	2.080	1448.48	1408.25	1385.81	1362.84	1292.04	1225.49
28	2.160	1448.48	1408.25	1385.81	1362.84	1292.04	1225.53
29	2.240	1448.48	1408.25	1385.81	1362.84	1292.04	1225.57
30	2.320	1448.48	1408.25	1385.81	1362.84	1292.04	1225.60
31	2.400	1448.48	1408.25	1385.81	1362.84	1292.04	1225.63
32	2.480	1448.48	1408.25	1385.81	1362.84	1292.04	1225.66
33	2.560	1448.48	1408.25	1385.81	1362.84	1292.04	1225.69
34	2.640	1448.48	1408.25	1385.81	1362.84	1292.04	1225.72
35	2.720	1448.48	1408.25	1385.81	1362.84	1292.04	1225.75
36	2.800	1448.48	1408.25	1385.81	1362.84	1292.04	1225.78
37	2.880	1448.48	1408.25	1385.81	1362.84	1292.04	1225.81
38	2.960	1448.48	1408.25	1385.81	1362.84	1292.04	1225.84
39	3.040	1448.48	1408.25	1385.81	1362.84	1292.04	1225.86
40	3.120	1448.48	1408.25	1385.81	1362.84	1292.04	1225.89
41	3.200	1448.48	1408.25	1385.81	1362.84	1292.04	1225.91
42	3.280	1448.48	1408.25	1385.81	1362.84	1292.04	1225.94
43	3.360	1448.48	1408.25	1385.81	1362.84	1292.04	1225.96
44	3.440	1448.48	1408.25	1385.81	1362.84	1292.04	1225.99
45	3.520	1448.48	1408.25	1385.81	1362.84	1292.04	1226.01
46	3.600	1448.48	1408.25	1385.81	1362.84	1292.04	1226.03
47	3.680	1448.48	1408.25	1385.81	1362.84	1292.04	1226.05
48	3.760	1448.48	1408.25	1385.81	1362.84	1292.04	1226.08
49	3.840	1448.48	1408.25	1385.81	1362.84	1292.04	1226.10

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
50	3.920	1448.48	1408.25	1385.81	1362.84	1292.04	1226.12
51	4.000	1448.48	1408.25	1385.81	1362.84	1292.04	1226.14
52	4.080	1448.48	1408.25	1385.81	1362.84	1292.04	1226.16
53	4.160	1448.48	1408.25	1385.81	1362.84	1292.04	1226.18
54	4.240	1448.48	1408.25	1385.81	1362.84	1292.04	1226.20
55	4.320	1448.48	1408.25	1385.81	1362.84	1292.04	1226.21
56	4.400	1448.48	1408.25	1385.81	1362.84	1292.04	1226.23
57	4.480	1448.48	1408.25	1385.81	1362.84	1292.04	1226.25
58	4.560	1448.48	1408.25	1385.81	1362.84	1292.04	1226.27
59	4.640	1448.48	1408.25	1385.81	1362.84	1292.04	1226.29
60	4.720	1448.48	1408.25	1385.81	1362.84	1292.04	1226.30
61	4.800	1448.48	1408.25	1385.81	1362.84	1292.04	1226.32
62	4.880	1448.48	1408.25	1385.81	1362.84	1292.04	1226.34
63	4.960	1448.48	1408.25	1385.81	1362.84	1292.04	1226.35
64	5.040	1448.48	1408.25	1385.81	1362.84	1292.04	1226.37
65	5.120	1448.48	1408.25	1385.81	1362.84	1292.04	1226.38
66	5.200	1448.48	1408.25	1385.81	1362.84	1292.04	1226.40
67	5.280	1448.48	1408.25	1385.81	1362.84	1292.04	1226.41
68	5.360	1448.48	1408.25	1385.81	1362.84	1292.04	1226.43
69	5.440	1448.48	1408.25	1385.81	1362.84	1292.04	1226.44
70	5.520	1448.48	1408.25	1385.81	1362.84	1292.04	1226.46
71	5.600	1448.48	1408.25	1385.81	1362.84	1292.04	1226.47
72	5.680	1448.48	1408.25	1385.81	1362.84	1292.04	1226.49
73	5.760	1448.48	1408.25	1385.81	1362.84	1292.04	1226.50
74	5.840	1448.48	1408.25	1385.81	1362.84	1292.04	1226.52
75	5.920	1448.48	1408.25	1385.81	1362.84	1292.04	1226.53
76	6.000	1448.48	1408.25	1385.81	1362.84	1292.04	1226.54
77	6.080	1448.48	1408.25	1385.81	1362.84	1292.04	1226.56
78	6.160	1448.48	1408.25	1385.81	1362.84	1292.04	1226.57
79	6.240	1448.48	1408.25	1385.81	1362.84	1292.04	1226.58
80	6.320	1448.48	1408.25	1385.81	1362.84	1292.04	1226.59
81	6.400	1448.48	1408.25	1385.81	1362.84	1292.04	1226.61
82	6.480	1448.48	1408.25	1385.81	1362.84	1292.04	1226.62
83	6.560	1448.48	1408.25	1385.81	1362.84	1292.04	1226.63
84	6.640	1448.48	1408.25	1385.81	1362.84	1292.04	1226.64
85	6.720	1448.48	1408.25	1385.81	1362.84	1292.04	1226.66
86	6.800	1448.48	1408.25	1385.81	1362.84	1292.04	1226.67
87	6.880	1448.48	1408.25	1385.81	1362.84	1292.04	1226.68
88	6.960	1448.48	1408.25	1385.81	1362.84	1292.04	1226.69
89	7.040	1448.48	1408.25	1385.81	1362.84	1292.04	1226.70
90	7.120	1448.48	1408.25	1385.81	1362.84	1292.04	1226.71
91	7.200	1448.48	1408.25	1385.81	1362.84	1292.04	1226.72
92	7.280	1448.48	1408.25	1385.81	1362.84	1292.04	1226.73
93	7.360	1448.48	1408.25	1385.81	1362.84	1292.04	1226.74
94	7.440	1448.48	1408.25	1385.81	1362.84	1292.04	1226.75
95	7.520	1448.48	1408.25	1385.81	1362.84	1292.04	1226.76
96	7.600	1448.48	1408.25	1385.81	1362.84	1292.04	1226.77
97	7.680	1448.48	1408.25	1385.81	1362.84	1292.04	1226.78
98	7.760	1448.48	1408.25	1385.81	1362.84	1292.04	1226.79
99	7.840	1448.48	1408.25	1385.81	1362.84	1292.04	1226.80

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
100	7.920	1448.48	1408.25	1385.81	1362.84	1292.04	1226.81
101	8.000	1448.48	1408.25	1385.81	1362.84	1292.04	1226.82
102	8.080	1448.48	1408.25	1385.81	1362.84	1292.04	1226.83
103	8.160	1448.48	1408.25	1385.81	1362.84	1292.04	1226.84
104	8.240	1448.48	1408.25	1385.81	1362.84	1292.04	1226.85
105	8.320	1448.48	1408.25	1385.81	1362.84	1292.04	1226.86
106	8.400	1448.48	1408.25	1385.81	1362.84	1292.04	1226.87
107	8.480	1448.48	1408.25	1385.81	1362.84	1292.04	1226.88
108	8.560	1448.48	1408.25	1385.81	1362.84	1292.04	1226.89
109	8.640	1448.48	1408.25	1385.81	1362.84	1292.04	1226.90
110	8.720	1448.48	1408.25	1385.81	1362.84	1292.04	1226.90
111	8.800	1448.48	1408.25	1385.81	1362.84	1292.04	1226.91
112	8.880	1448.48	1408.25	1385.81	1362.84	1292.04	1226.92
113	8.960	1448.48	1408.25	1385.81	1362.84	1292.04	1226.93
114	9.040	1448.48	1408.25	1385.81	1362.84	1292.04	1226.94
115	9.120	1448.48	1408.25	1385.81	1362.84	1292.04	1226.95
116	9.200	1448.48	1408.25	1385.81	1362.84	1292.04	1226.96
117	9.280	1448.48	1408.25	1385.81	1362.84	1292.04	1226.96
118	9.360	1448.48	1408.25	1385.81	1362.84	1292.04	1226.97
119	9.440	1448.48	1408.25	1385.81	1362.84	1292.04	1226.98
120	9.520	1448.48	1408.25	1385.81	1362.84	1292.04	1226.99
121	9.600	1448.48	1408.25	1385.81	1362.84	1292.04	1227.00
122	9.680	1448.48	1408.25	1385.81	1362.84	1292.04	1227.01
123	9.760	1448.48	1408.25	1385.81	1362.84	1292.04	1227.01
124	9.840	1448.48	1408.25	1385.81	1362.84	1292.04	1227.02
125	9.920	1448.48	1408.25	1385.81	1362.84	1292.04	1227.03
126	10.000	1448.48	1408.25	1385.81	1362.84	1292.04	1227.04
127	10.080	1448.48	1408.25	1385.81	1362.84	1292.04	1227.04
128	10.160	1448.48	1408.25	1385.81	1362.84	1292.04	1227.05
129	10.240	1448.48	1408.25	1385.81	1362.84	1292.04	1227.06
130	10.320	1448.48	1408.25	1385.81	1362.84	1292.04	1227.07
131	10.400	1448.48	1408.25	1385.81	1362.84	1292.04	1227.07
132	10.480	1448.48	1408.25	1385.81	1362.84	1292.04	1227.08
133	10.560	1448.48	1408.25	1385.81	1362.84	1292.04	1227.09
134	10.640	1448.48	1408.25	1385.81	1362.84	1292.04	1227.09
135	10.720	1448.48	1408.25	1385.81	1362.84	1292.04	1227.10
136	10.800	1448.48	1408.25	1385.81	1362.84	1292.04	1227.11
137	10.880	1448.48	1408.25	1385.81	1362.84	1292.04	1227.11
138	10.960	1448.48	1408.25	1385.81	1362.84	1292.04	1227.12
139	11.040	1448.48	1408.25	1385.81	1362.84	1292.04	1227.13
140	11.120	1448.48	1408.25	1385.81	1362.84	1292.04	1227.13
141	11.200	1448.48	1408.25	1385.81	1362.84	1292.04	1227.14
142	11.280	1448.48	1408.25	1385.81	1362.84	1292.04	1227.14
143	11.360	1448.48	1408.25	1385.81	1362.84	1292.04	1227.15
144	11.440	1448.48	1408.25	1385.81	1362.84	1292.04	1227.16
145	11.520	1448.48	1408.25	1385.81	1362.84	1292.04	1227.16
146	11.600	1448.48	1408.25	1385.81	1362.84	1292.04	1227.17
147	11.680	1448.48	1408.25	1385.81	1362.84	1292.04	1227.18
148	11.760	1448.48	1408.25	1385.81	1362.84	1292.04	1227.18
149	11.840	1448.48	1408.25	1385.81	1362.84	1292.04	1227.19

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
150	11.920	1448.48	1408.25	1385.81	1362.84	1292.04	1227.19
151	12.000	1448.48	1408.25	1385.81	1362.84	1292.04	1227.20
152	12.080	1448.48	1408.25	1385.81	1362.84	1292.04	1227.21
153	12.160	1448.48	1408.25	1385.81	1362.84	1292.04	1227.21
154	12.240	1448.48	1408.25	1385.81	1362.84	1292.04	1227.22
155	12.320	1448.48	1408.25	1385.81	1362.84	1292.04	1227.22
156	12.400	1448.48	1408.25	1385.81	1362.84	1292.04	1227.23
157	12.480	1448.48	1408.25	1385.81	1362.84	1292.04	1227.24
158	12.560	1448.48	1408.25	1385.81	1362.84	1292.04	1227.24
159	12.640	1448.48	1408.25	1385.81	1362.84	1292.04	1227.25
160	12.720	1448.48	1408.25	1385.81	1362.84	1292.04	1227.25
161	12.800	1448.48	1408.25	1385.81	1362.84	1292.04	1227.26
162	12.880	1448.48	1408.25	1385.81	1362.84	1292.04	1227.26
163	12.960	1448.48	1408.25	1385.81	1362.84	1292.04	1227.27
164	13.040	1448.48	1408.25	1385.81	1362.84	1292.04	1227.27
165	13.120	1448.48	1408.25	1385.81	1362.84	1292.04	1227.28
166	13.200	1448.48	1408.25	1385.81	1362.84	1292.04	1227.29
167	13.280	1448.48	1408.25	1385.81	1362.84	1292.04	1227.29
168	13.360	1448.48	1408.25	1385.81	1362.84	1292.04	1227.30
169	13.440	1448.48	1408.25	1385.81	1362.84	1292.04	1227.30
170	13.520	1448.48	1408.25	1385.81	1362.84	1292.04	1227.31
171	13.600	1448.48	1408.25	1385.81	1362.84	1292.04	1227.31
172	13.680	1448.48	1408.25	1385.81	1362.84	1292.04	1227.32
173	13.760	1448.48	1408.25	1385.81	1362.84	1292.04	1227.32
174	13.840	1448.48	1408.25	1385.81	1362.84	1292.04	1227.33
175	13.920	1448.48	1408.25	1385.81	1362.84	1292.04	1227.33
176	14.000	1448.48	1408.25	1385.81	1362.84	1292.04	1227.34
177	14.080	1448.48	1408.25	1385.81	1362.84	1292.04	1227.34
178	14.160	1448.48	1408.25	1385.81	1362.84	1292.04	1227.35
179	14.240	1448.48	1408.25	1385.81	1362.84	1292.04	1227.35
180	14.320	1448.48	1408.25	1385.81	1362.84	1292.04	1227.36
181	14.400	1448.48	1408.25	1385.81	1362.84	1292.04	1227.36
182	14.480	1448.48	1408.25	1385.81	1362.84	1292.04	1227.36
183	14.560	1448.48	1408.25	1385.81	1362.84	1292.04	1227.37
184	14.640	1448.48	1408.25	1385.81	1362.84	1292.04	1227.37
185	14.720	1448.48	1408.25	1385.81	1362.84	1292.04	1227.38
186	14.800	1448.48	1408.25	1385.81	1362.84	1292.04	1227.38
187	14.880	1448.48	1408.25	1385.81	1362.84	1292.04	1227.39
188	14.960	1448.48	1408.25	1385.81	1362.84	1292.04	1227.39
189	15.040	1448.48	1408.25	1385.81	1362.84	1292.04	1227.40
190	15.120	1448.48	1408.25	1385.81	1362.84	1292.04	1227.40
191	15.200	1448.48	1408.25	1385.81	1362.84	1292.04	1227.40
192	15.280	1448.48	1408.25	1385.81	1362.84	1292.04	1227.41
193	15.360	1448.48	1408.25	1385.81	1362.84	1292.04	1227.41
194	15.440	1448.48	1408.25	1385.81	1362.84	1292.04	1227.42
195	15.520	1448.48	1408.25	1385.81	1362.84	1292.04	1227.42
196	15.600	1448.48	1408.25	1385.81	1362.84	1292.04	1227.43
197	15.680	1448.48	1408.25	1385.81	1362.84	1292.04	1227.43
198	15.760	1448.48	1408.25	1385.81	1362.84	1292.04	1227.44
199	15.840	1448.48	1408.25	1385.81	1362.84	1292.04	1227.44

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
200	15.920	1448.48	1408.25	1385.81	1362.84	1292.04	1227.45
201	16.000	1448.48	1408.25	1385.81	1362.84	1292.04	1227.45
202	16.080	1448.48	1408.25	1385.81	1362.84	1292.04	1227.45
203	16.160	1448.48	1408.25	1385.81	1362.84	1292.04	1227.46
204	16.240	1448.48	1408.25	1385.81	1362.84	1292.04	1227.46
205	16.320	1448.48	1408.25	1385.81	1362.84	1292.04	1227.47
206	16.400	1448.48	1408.25	1385.81	1362.84	1292.04	1227.47
207	16.480	1448.48	1408.25	1385.81	1362.84	1292.04	1227.48
208	16.560	1448.48	1408.25	1385.81	1362.84	1292.04	1227.48
209	16.640	1448.48	1408.25	1385.81	1362.84	1292.04	1227.48
210	16.720	1448.48	1408.25	1385.81	1362.84	1292.04	1227.49
211	16.800	1448.48	1408.25	1385.81	1362.84	1292.04	1227.49
212	16.880	1448.48	1408.25	1385.81	1362.84	1292.04	1227.50
213	16.960	1448.48	1408.25	1385.81	1362.84	1292.04	1227.50
214	17.040	1448.48	1408.25	1385.81	1362.84	1292.04	1227.50
215	17.120	1448.48	1408.25	1385.81	1362.84	1292.04	1227.51
216	17.200	1448.48	1408.25	1385.81	1362.84	1292.04	1227.51
217	17.280	1448.48	1408.25	1385.81	1362.84	1292.04	1227.52
218	17.360	1448.48	1408.25	1385.81	1362.84	1292.04	1227.52
219	17.440	1448.48	1408.25	1385.81	1362.84	1292.04	1227.52
220	17.520	1448.48	1408.25	1385.81	1362.84	1292.04	1227.53
221	17.600	1448.48	1408.25	1385.81	1362.84	1292.04	1227.53
222	17.680	1448.48	1408.25	1385.81	1362.84	1292.04	1227.54
223	17.760	1448.48	1408.25	1385.81	1362.84	1292.04	1227.54
224	17.840	1448.48	1408.25	1385.81	1362.84	1292.04	1227.54
225	17.920	1448.48	1408.25	1385.81	1362.84	1292.04	1227.55
226	18.000	1448.48	1408.25	1385.81	1362.84	1292.04	1227.55
227	18.080	1448.48	1408.25	1385.81	1362.84	1292.04	1227.55
228	18.160	1448.48	1408.25	1385.81	1362.84	1292.04	1227.56
229	18.240	1448.48	1408.25	1385.81	1362.84	1292.04	1227.56
230	18.320	1448.48	1408.25	1385.81	1362.84	1292.04	1227.56
231	18.400	1448.48	1408.25	1385.81	1362.84	1292.04	1227.57
232	18.480	1448.48	1408.25	1385.81	1362.84	1292.04	1227.57
233	18.560	1448.48	1408.25	1385.81	1362.84	1292.04	1227.57
234	18.640	1448.48	1408.25	1385.81	1362.84	1292.04	1227.58
235	18.720	1448.48	1408.25	1385.81	1362.84	1292.04	1227.58
236	18.800	1448.48	1408.25	1385.81	1362.84	1292.04	1227.58
237	18.880	1448.48	1408.25	1385.81	1362.84	1292.04	1227.59
238	18.960	1448.48	1408.25	1385.81	1362.84	1292.04	1227.59
239	19.040	1448.48	1408.25	1385.81	1362.84	1292.04	1227.59
240	19.120	1448.48	1408.25	1385.81	1362.84	1292.04	1227.60
241	19.200	1448.48	1408.25	1385.81	1362.84	1292.04	1227.60
242	19.280	1448.48	1408.25	1385.81	1362.84	1292.04	1227.60
243	19.360	1448.48	1408.25	1385.81	1362.84	1292.04	1227.61
244	19.440	1448.48	1408.25	1385.81	1362.84	1292.04	1227.61
245	19.520	1448.48	1408.25	1385.81	1362.84	1292.04	1227.61
246	19.600	1448.48	1408.25	1385.81	1362.84	1292.04	1227.62
247	19.680	1448.48	1408.25	1385.81	1362.84	1292.04	1227.62
248	19.760	1448.48	1408.25	1385.81	1362.84	1292.04	1227.62
249	19.840	1448.48	1408.25	1385.81	1362.84	1292.04	1227.63

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
250	19.920	1448.48	1408.25	1385.81	1362.84	1292.04	1227.63
251	20.000	1448.48	1408.25	1385.81	1362.84	1292.04	1227.63
252	20.080	1448.48	1408.25	1385.81	1362.84	1292.04	1227.63
253	20.160	1448.48	1408.25	1385.81	1362.84	1292.04	1227.64
254	20.240	1448.48	1408.25	1385.81	1362.84	1292.04	1227.64
255	20.320	1448.48	1408.25	1385.81	1362.84	1292.04	1227.64
256	20.400	1448.48	1408.25	1385.81	1362.84	1292.04	1227.65
257	20.480	1448.48	1408.25	1385.81	1362.84	1292.04	1227.65
258	20.560	1448.48	1408.25	1385.81	1362.84	1292.04	1227.65
259	20.640	1448.48	1408.25	1385.81	1362.84	1292.04	1227.66
260	20.720	1448.48	1408.25	1385.81	1362.84	1292.04	1227.66
261	20.800	1448.48	1408.25	1385.81	1362.84	1292.04	1227.66
262	20.880	1448.48	1408.25	1385.81	1362.84	1292.04	1227.67
263	20.960	1448.48	1408.25	1385.81	1362.84	1292.04	1227.67
264	21.040	1448.48	1408.25	1385.81	1362.84	1292.04	1227.67
265	21.120	1448.48	1408.25	1385.81	1362.84	1292.04	1227.67
266	21.200	1448.48	1408.25	1385.81	1362.84	1292.04	1227.67
267	21.280	1448.48	1408.25	1385.81	1362.84	1292.04	1227.68
268	21.360	1448.48	1408.25	1385.81	1362.84	1292.04	1227.68
269	21.440	1448.48	1408.25	1385.81	1362.84	1292.04	1227.68
270	21.520	1448.48	1408.25	1385.81	1362.84	1292.04	1227.68
271	21.600	1448.48	1408.25	1385.81	1362.84	1292.04	1227.69
272	21.680	1448.48	1408.25	1385.81	1362.84	1292.04	1227.69
273	21.760	1448.48	1408.25	1385.81	1362.84	1292.04	1227.69
274	21.840	1448.48	1408.25	1385.81	1362.84	1292.04	1227.70
275	21.920	1448.48	1408.25	1385.81	1362.84	1292.04	1227.70
276	22.000	1448.48	1408.25	1385.81	1362.84	1292.04	1227.70
277	22.080	1448.48	1408.25	1385.81	1362.84	1292.04	1227.70
278	22.160	1448.48	1408.25	1385.81	1362.84	1292.04	1227.71
279	22.240	1448.48	1408.25	1385.81	1362.84	1292.04	1227.71
280	22.320	1448.48	1408.25	1385.81	1362.84	1292.04	1227.71
281	22.400	1448.48	1408.25	1385.81	1362.84	1292.04	1227.72
282	22.480	1448.48	1408.25	1385.81	1362.84	1292.04	1227.72
283	22.560	1448.48	1408.25	1385.81	1362.84	1292.04	1227.72
284	22.640	1448.48	1408.25	1385.81	1362.84	1292.04	1227.72
285	22.720	1448.48	1408.25	1385.81	1362.84	1292.04	1227.72
286	22.800	1448.48	1408.25	1385.81	1362.84	1292.04	1227.72
287	22.880	1448.48	1408.25	1385.81	1362.84	1292.04	1227.72
288	22.960	1448.48	1408.25	1385.81	1362.84	1292.04	1227.73
289	23.040	1448.48	1408.25	1385.81	1362.84	1292.04	1227.73
290	23.120	1448.48	1408.25	1385.81	1362.84	1292.04	1227.73
291	23.200	1448.48	1408.25	1385.81	1362.84	1292.04	1227.73
292	23.280	1448.48	1408.25	1385.81	1362.84	1292.04	1227.73
293	23.360	1448.48	1408.25	1385.81	1362.84	1292.04	1227.74
294	23.440	1448.48	1408.25	1385.81	1362.84	1292.04	1227.74
295	23.520	1448.48	1408.25	1385.81	1362.84	1292.04	1227.74
296	23.600	1448.48	1408.25	1385.81	1362.84	1292.04	1227.74
297	23.680	1448.48	1408.25	1385.81	1362.84	1292.04	1227.74
298	23.760	1448.48	1408.25	1385.81	1362.84	1292.04	1227.75
299	23.840	1448.48	1408.25	1385.81	1362.84	1292.04	1227.75

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
300	23.920	1448.48	1408.25	1385.81	1362.84	1292.04	1227.75
301	24.000	1448.48	1408.25	1385.81	1362.84	1292.04	1227.75
302	24.080	1448.48	1408.25	1385.81	1362.84	1292.04	1227.76
303	24.160	1448.48	1408.25	1385.81	1362.84	1292.04	1227.76
304	24.240	1448.48	1408.25	1385.81	1362.84	1292.04	1227.76
305	24.320	1448.48	1408.25	1385.81	1362.84	1292.04	1227.76
306	24.400	1448.48	1408.25	1385.81	1362.84	1292.04	1227.76
307	24.480	1448.48	1408.25	1385.81	1362.84	1292.04	1227.76
308	24.560	1448.48	1408.25	1385.81	1362.84	1292.04	1227.77
309	24.640	1448.48	1408.25	1385.81	1362.84	1292.04	1227.77
310	24.720	1448.48	1408.25	1385.81	1362.84	1292.04	1227.77
311	24.800	1448.48	1408.25	1385.81	1362.84	1292.04	1227.77
312	24.880	1448.48	1408.25	1385.81	1362.84	1292.04	1227.77
313	24.960	1448.48	1408.25	1385.81	1362.84	1292.04	1227.78
314	25.040	1448.48	1408.25	1385.81	1362.84	1292.04	1227.78
315	25.120	1448.48	1408.25	1385.81	1362.84	1292.04	1227.78
316	25.200	1448.48	1408.25	1385.81	1362.84	1292.04	1227.78
317	25.280	1448.48	1408.25	1385.81	1362.84	1292.04	1227.78
318	25.360	1448.48	1408.25	1385.81	1362.84	1292.04	1227.78
319	25.440	1448.48	1408.25	1385.81	1362.84	1292.04	1227.79
320	25.520	1448.48	1408.25	1385.81	1362.84	1292.04	1227.79
321	25.600	1448.48	1408.25	1385.81	1362.84	1292.04	1227.79
322	25.680	1448.48	1408.25	1385.81	1362.84	1292.04	1227.79
323	25.760	1448.48	1408.25	1385.81	1362.84	1292.04	1227.79
324	25.840	1448.48	1408.25	1385.81	1362.84	1292.04	1227.80
325	25.920	1448.48	1408.25	1385.81	1362.84	1292.04	1227.80
326	26.000	1448.48	1408.25	1385.81	1362.84	1292.04	1227.80
327	26.080	1448.48	1408.25	1385.81	1362.84	1292.04	1227.80
328	26.160	1448.48	1408.25	1385.81	1362.84	1292.04	1227.80
329	26.240	1448.48	1408.25	1385.81	1362.84	1292.04	1227.80
330	26.320	1448.48	1408.25	1385.81	1362.84	1292.04	1227.80
331	26.400	1448.48	1408.25	1385.81	1362.84	1292.04	1227.80
332	26.480	1448.48	1408.25	1385.81	1362.84	1292.04	1227.81
333	26.560	1448.48	1408.25	1385.81	1362.84	1292.04	1227.81
334	26.640	1448.48	1408.25	1385.81	1362.84	1292.04	1227.81
335	26.720	1448.48	1408.25	1385.81	1362.84	1292.04	1227.81
336	26.800	1448.48	1408.25	1385.81	1362.84	1292.04	1227.81
337	26.880	1448.48	1408.25	1385.81	1362.84	1292.04	1227.81
338	26.960	1448.48	1408.25	1385.81	1362.84	1292.04	1227.81
339	27.040	1448.48	1408.25	1385.81	1362.84	1292.04	1227.82
340	27.120	1448.48	1408.25	1385.81	1362.84	1292.04	1227.82
341	27.200	1448.48	1408.25	1385.81	1362.84	1292.04	1227.82
342	27.280	1448.48	1408.25	1385.81	1362.84	1292.04	1227.82
343	27.360	1448.48	1408.25	1385.81	1362.84	1292.04	1227.82
344	27.440	1448.48	1408.25	1385.81	1362.84	1292.04	1227.82
345	27.520	1448.48	1408.25	1385.81	1362.84	1292.04	1227.83
346	27.600	1448.48	1408.25	1385.81	1362.84	1292.04	1227.83
347	27.680	1448.48	1408.25	1385.81	1362.84	1292.04	1227.83
348	27.760	1448.48	1408.25	1385.81	1362.84	1292.04	1227.83
349	27.840	1448.48	1408.25	1385.81	1362.84	1292.04	1227.83

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
350	27.920	1448.48	1408.25	1385.81	1362.84	1292.04	1227.83
351	28.000	1448.48	1408.25	1385.81	1362.84	1292.04	1227.83
352	28.080	1448.48	1408.25	1385.81	1362.84	1292.04	1227.83
353	28.160	1448.48	1408.25	1385.81	1362.84	1292.04	1227.84
354	28.240	1448.48	1408.25	1385.81	1362.84	1292.04	1227.84
355	28.320	1448.48	1408.25	1385.81	1362.84	1292.04	1227.84
356	28.400	1448.48	1408.25	1385.81	1362.84	1292.04	1227.84
357	28.480	1448.48	1408.25	1385.81	1362.84	1292.04	1227.84
358	28.560	1448.48	1408.25	1385.81	1362.84	1292.04	1227.84
359	28.640	1448.48	1408.25	1385.81	1362.84	1292.04	1227.84
360	28.720	1448.48	1408.25	1385.81	1362.84	1292.04	1227.84
361	28.800	1448.48	1408.25	1385.81	1362.84	1292.04	1227.85
362	28.880	1448.48	1408.25	1385.81	1362.84	1292.04	1227.85
363	28.960	1448.48	1408.25	1385.81	1362.84	1292.04	1227.85
364	29.040	1448.48	1408.25	1385.81	1362.84	1292.04	1227.85
365	29.120	1448.48	1408.25	1385.81	1362.84	1292.04	1227.85
366	29.200	1448.48	1408.25	1385.81	1362.84	1292.04	1227.85
367	29.280	1448.48	1408.25	1385.81	1362.84	1292.04	1227.85
368	29.360	1448.48	1408.25	1385.81	1362.84	1292.04	1227.85
369	29.440	1448.48	1408.25	1385.81	1362.84	1292.04	1227.85
370	29.520	1448.48	1408.25	1385.81	1362.84	1292.04	1227.85
371	29.600	1448.48	1408.25	1385.81	1362.84	1292.04	1227.85
372	29.680	1448.48	1408.25	1385.81	1362.84	1292.04	1227.85
373	29.760	1448.48	1408.25	1385.81	1362.84	1292.04	1227.85
374	29.840	1448.48	1408.25	1385.81	1362.84	1292.04	1227.85
375	29.920	1448.48	1408.25	1385.81	1362.84	1292.04	1227.86
376	30.000	1448.48	1408.25	1385.81	1362.84	1292.04	1227.86
377	30.080	1448.48	1408.25	1385.81	1362.84	1292.04	1227.86
378	30.160	1448.48	1408.25	1385.81	1362.84	1292.04	1227.86
379	30.240	1448.48	1408.25	1385.81	1362.84	1292.04	1227.86
380	30.320	1448.48	1408.25	1385.81	1362.84	1292.04	1227.86
381	30.400	1448.48	1408.25	1385.81	1362.84	1292.04	1227.86
382	30.480	1448.48	1408.25	1385.81	1362.84	1292.04	1227.86
383	30.560	1448.48	1408.25	1385.81	1362.84	1292.04	1227.86
384	30.640	1448.48	1408.25	1385.81	1362.84	1292.04	1227.86
385	30.720	1448.48	1408.25	1385.81	1362.84	1292.04	1227.86
386	30.800	1448.48	1408.25	1385.81	1362.84	1292.04	1227.86
387	30.880	1448.48	1408.25	1385.81	1362.84	1292.04	1227.86
388	30.960	1448.48	1408.25	1385.81	1362.84	1292.04	1227.86
389	31.040	1448.48	1408.25	1385.81	1362.84	1292.04	1227.86
390	31.120	1448.48	1408.25	1385.81	1362.84	1292.04	1227.86
391	31.200	1448.48	1408.25	1385.81	1362.84	1292.04	1227.86
392	31.280	1448.48	1408.25	1385.81	1362.84	1292.04	1227.86
393	31.360	1448.48	1408.25	1385.81	1362.84	1292.04	1227.86
394	31.440	1448.48	1408.25	1385.81	1362.84	1292.04	1227.86
395	31.520	1448.48	1408.25	1385.81	1362.84	1292.04	1227.87
396	31.600	1448.48	1408.25	1385.81	1362.84	1292.04	1227.87
397	31.680	1448.48	1408.25	1385.81	1362.84	1292.04	1227.87
398	31.760	1448.48	1408.25	1385.81	1362.84	1292.04	1227.87
399	31.840	1448.48	1408.25	1385.81	1362.84	1292.04	1227.87

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
400	31.920	1448.48	1408.25	1385.81	1362.84	1292.04	1227.87
401	32.000	1448.48	1408.25	1385.81	1362.84	1292.04	1227.87
402	32.080	1448.48	1408.25	1385.81	1362.84	1292.04	1227.88
403	32.160	1448.48	1408.25	1385.81	1362.84	1292.04	1227.88
404	32.240	1448.48	1408.25	1385.81	1362.84	1292.04	1227.88
405	32.320	1448.48	1408.25	1385.81	1362.84	1292.04	1227.88
406	32.400	1448.48	1408.25	1385.81	1362.84	1292.04	1227.88
407	32.480	1448.48	1408.25	1385.81	1362.84	1292.04	1227.88
408	32.560	1448.48	1408.25	1385.81	1362.84	1292.04	1227.88
409	32.640	1448.48	1408.25	1385.81	1362.84	1292.04	1227.88
410	32.720	1448.48	1408.25	1385.81	1362.84	1292.04	1227.88
411	32.800	1448.48	1408.25	1385.81	1362.84	1292.04	1227.88
412	32.880	1448.48	1408.25	1385.81	1362.84	1292.04	1227.88
413	32.960	1448.48	1408.25	1385.81	1362.84	1292.04	1227.89
414	33.040	1448.48	1408.25	1385.81	1362.84	1292.04	1227.89
415	33.120	1448.48	1408.25	1385.81	1362.84	1292.04	1227.89
416	33.200	1448.48	1408.25	1385.81	1362.84	1292.04	1227.89
417	33.280	1448.48	1408.25	1385.81	1362.84	1292.04	1227.89
418	33.360	1448.48	1408.25	1385.81	1362.84	1292.04	1227.89
419	33.440	1448.48	1408.25	1385.81	1362.84	1292.04	1227.89
420	33.520	1448.48	1408.25	1385.81	1362.84	1292.04	1227.89
421	33.600	1448.48	1408.25	1385.81	1362.84	1292.04	1227.89
422	33.680	1448.48	1408.25	1385.81	1362.84	1292.04	1227.89
423	33.760	1448.48	1408.25	1385.81	1362.84	1292.04	1227.90
424	33.840	1448.48	1408.25	1385.81	1362.84	1292.04	1227.90
425	33.920	1448.48	1408.25	1385.81	1362.84	1292.04	1227.90
426	34.000	1448.48	1408.25	1385.81	1362.84	1292.04	1227.90
427	34.080	1448.48	1408.25	1385.81	1362.84	1292.04	1227.90
428	34.160	1448.48	1408.25	1385.81	1362.84	1292.04	1227.90
429	34.240	1448.48	1408.25	1385.81	1362.84	1292.04	1227.90
430	34.320	1448.48	1408.25	1385.81	1362.84	1292.04	1227.90
431	34.400	1448.48	1408.25	1385.81	1362.84	1292.04	1227.90
432	34.480	1448.48	1408.25	1385.81	1362.84	1292.04	1227.91
433	34.560	1448.48	1408.25	1385.81	1362.84	1292.04	1227.91
434	34.640	1448.48	1408.25	1385.81	1362.84	1292.04	1227.91
435	34.720	1448.48	1408.25	1385.81	1362.84	1292.04	1227.91
436	34.800	1448.48	1408.25	1385.81	1362.84	1292.04	1227.91
437	34.880	1448.48	1408.25	1385.81	1362.84	1292.04	1227.91
438	34.960	1448.48	1408.25	1385.81	1362.84	1292.04	1227.91
439	35.040	1448.48	1408.25	1385.81	1362.84	1292.04	1227.91
440	35.120	1448.48	1408.25	1385.81	1362.84	1292.04	1227.91
441	35.200	1448.48	1408.25	1385.81	1362.84	1292.04	1227.91
442	35.280	1448.48	1408.25	1385.81	1362.84	1292.04	1227.91
443	35.360	1448.48	1408.25	1385.81	1362.84	1292.04	1227.91
444	35.440	1448.48	1408.25	1385.81	1362.84	1292.04	1227.91
445	35.520	1448.48	1408.25	1385.81	1362.84	1292.04	1227.91
446	35.600	1448.48	1408.25	1385.81	1362.84	1292.04	1227.91
447	35.680	1448.48	1408.25	1385.81	1362.84	1292.04	1227.91
448	35.760	1448.48	1408.25	1385.81	1362.84	1292.04	1227.91
449	35.840	1448.48	1408.25	1385.81	1362.84	1292.04	1227.91

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
450	35.920	1448.48	1408.25	1385.81	1362.84	1292.04	1227.91
451	36.000	1448.48	1408.25	1385.81	1362.84	1292.04	1227.91
452	36.080	1448.48	1408.25	1385.81	1362.84	1292.04	1227.91
453	36.160	1448.48	1408.25	1385.81	1362.84	1292.04	1227.91
454	36.240	1448.48	1408.25	1385.81	1362.84	1292.04	1227.92
455	36.320	1448.48	1408.25	1385.81	1362.84	1292.04	1227.92
456	36.400	1448.48	1408.25	1385.81	1362.84	1292.04	1227.92
457	36.480	1448.48	1408.25	1385.81	1362.84	1292.04	1227.92
458	36.560	1448.48	1408.25	1385.81	1362.84	1292.04	1227.92
459	36.640	1448.48	1408.25	1385.81	1362.84	1292.04	1227.92
460	36.720	1448.48	1408.25	1385.81	1362.84	1292.04	1227.92
461	36.800	1448.48	1408.25	1385.81	1362.84	1292.04	1227.92
462	36.880	1448.48	1408.25	1385.81	1362.84	1292.04	1227.92
463	36.960	1448.48	1408.25	1385.81	1362.84	1292.04	1227.92
464	37.040	1448.48	1408.25	1385.81	1362.84	1292.04	1227.92
465	37.120	1448.48	1408.25	1385.81	1362.84	1292.04	1227.93
466	37.200	1448.48	1408.25	1385.81	1362.84	1292.04	1227.93
467	37.280	1448.48	1408.25	1385.81	1362.84	1292.04	1227.93
468	37.360	1448.48	1408.25	1385.81	1362.84	1292.04	1227.93
469	37.440	1448.48	1408.25	1385.81	1362.84	1292.04	1227.93
470	37.520	1448.48	1408.25	1385.81	1362.84	1292.04	1227.93
471	37.600	1448.48	1408.25	1385.81	1362.84	1292.04	1227.93
472	37.680	1448.48	1408.25	1385.81	1362.84	1292.04	1227.93
473	37.760	1448.48	1408.25	1385.81	1362.84	1292.04	1227.93
474	37.840	1448.48	1408.25	1385.81	1362.84	1292.04	1227.93
475	37.920	1448.48	1408.25	1385.81	1362.84	1292.04	1227.93
476	38.000	1448.48	1408.25	1385.81	1362.84	1292.04	1227.93
477	38.080	1448.48	1408.25	1385.81	1362.84	1292.04	1227.93
478	38.160	1448.48	1408.25	1385.81	1362.84	1292.04	1227.93
479	38.240	1448.48	1408.25	1385.81	1362.84	1292.04	1227.93
480	38.320	1448.48	1408.25	1385.81	1362.84	1292.04	1227.93
481	38.400	1448.48	1408.25	1385.81	1362.84	1292.04	1227.93
482	38.480	1448.48	1408.25	1385.81	1362.84	1292.04	1227.93
483	38.560	1448.48	1408.25	1385.81	1362.84	1292.04	1227.93
484	38.640	1448.48	1408.25	1385.81	1362.84	1292.04	1227.93
485	38.720	1448.48	1408.25	1385.81	1362.84	1292.04	1227.93
486	38.800	1448.48	1408.25	1385.81	1362.84	1292.04	1227.93
487	38.880	1448.48	1408.25	1385.81	1362.84	1292.04	1227.93
488	38.960	1448.48	1408.25	1385.81	1362.84	1292.04	1227.94
489	39.040	1448.48	1408.25	1385.81	1362.84	1292.04	1227.94
490	39.120	1448.48	1408.25	1385.81	1362.84	1292.04	1227.94
491	39.200	1448.48	1408.25	1385.81	1362.84	1292.04	1227.94
492	39.280	1448.48	1408.25	1385.81	1362.84	1292.04	1227.94
493	39.360	1448.48	1408.25	1385.81	1362.84	1292.04	1227.94
494	39.440	1448.48	1408.25	1385.81	1362.84	1292.04	1227.94
495	39.520	1448.48	1408.25	1385.81	1362.84	1292.04	1227.94
496	39.600	1448.48	1408.25	1385.81	1362.84	1292.04	1227.94
497	39.680	1448.48	1408.25	1385.81	1362.84	1292.04	1227.94
498	39.760	1448.48	1408.25	1385.81	1362.84	1292.04	1227.94
499	39.840	1448.48	1408.25	1385.81	1362.84	1292.04	1227.94

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
500	39.920	1448.48	1408.25	1385.81	1362.84	1292.04	1227.94
501	40.000	1448.48	1408.25	1385.81	1362.84	1292.04	1227.94
502	40.080	1448.48	1408.25	1385.81	1362.84	1292.04	1227.94
503	40.160	1448.48	1408.25	1385.81	1362.84	1292.04	1227.94
504	40.240	1448.48	1408.25	1385.81	1362.84	1292.04	1227.94
505	40.320	1448.48	1408.25	1385.81	1362.84	1292.04	1227.94
506	40.400	1448.48	1408.25	1385.81	1362.84	1292.04	1227.94
507	40.480	1448.48	1408.25	1385.81	1362.84	1292.04	1227.94
508	40.560	1448.48	1408.25	1385.81	1362.84	1292.04	1227.94
509	40.640	1448.48	1408.25	1385.81	1362.84	1292.04	1227.94
510	40.720	1448.48	1408.25	1385.81	1362.84	1292.04	1227.94
511	40.800	1448.48	1408.25	1385.81	1362.84	1292.04	1227.94
512	40.880	1448.48	1408.25	1385.81	1362.84	1292.04	1227.94
513	40.960	1448.48	1408.25	1385.81	1362.84	1292.04	1227.94
514	41.040	1448.48	1408.25	1385.81	1362.84	1292.04	1227.94
515	41.120	1448.48	1408.25	1385.81	1362.84	1292.04	1227.94
516	41.200	1448.48	1408.25	1385.81	1362.84	1292.04	1227.94
517	41.280	1448.48	1408.25	1385.81	1362.84	1292.04	1227.94
518	41.360	1448.48	1408.25	1385.81	1362.84	1292.04	1227.94
519	41.440	1448.48	1408.26	1385.81	1362.84	1292.04	1227.94
520	41.520	1448.48	1408.26	1385.81	1362.84	1292.04	1227.94
521	41.600	1448.48	1408.26	1385.81	1362.84	1292.04	1227.95
522	41.680	1448.48	1408.26	1385.81	1362.84	1292.04	1227.95
523	41.760	1448.48	1408.27	1385.81	1362.84	1292.04	1227.95
524	41.840	1448.48	1408.27	1385.81	1362.84	1292.04	1227.95
525	41.920	1448.48	1408.27	1385.81	1362.84	1292.04	1227.95
526	42.000	1448.48	1408.27	1385.81	1362.84	1292.04	1227.95
527	42.080	1449.11	1408.29	1385.81	1362.84	1292.04	1227.95
528	42.160	1449.59	1408.33	1385.81	1362.84	1292.04	1227.95
529	42.240	1449.93	1408.38	1385.81	1362.84	1292.04	1227.95
530	42.320	1450.19	1408.42	1385.81	1362.84	1292.04	1227.95
531	42.400	1450.41	1408.48	1385.81	1362.84	1292.04	1227.95
532	42.480	1450.60	1408.55	1385.81	1362.84	1292.04	1227.95
533	42.560	1450.76	1408.69	1385.81	1362.84	1292.04	1227.95
534	42.640	1450.90	1408.96	1385.82	1362.84	1292.04	1227.95
535	42.720	1451.03	1409.43	1385.82	1362.84	1292.04	1227.95
536	42.800	1451.17	1410.00	1385.82	1362.84	1292.04	1227.95
537	42.880	1451.31	1410.52	1385.83	1362.84	1292.04	1227.95
538	42.960	1451.44	1410.97	1385.84	1362.84	1292.04	1227.95
539	43.040	1451.57	1411.35	1385.85	1362.84	1292.04	1227.95
540	43.120	1451.70	1411.67	1385.87	1362.84	1292.04	1227.95
541	43.200	1451.83	1411.96	1385.90	1362.84	1292.04	1227.95
542	43.280	1451.94	1412.21	1385.93	1362.84	1292.04	1227.95
543	43.360	1452.06	1412.44	1385.98	1362.84	1292.04	1227.95
544	43.440	1452.44	1412.68	1386.13	1362.85	1292.04	1227.95
545	43.520	1453.06	1412.96	1386.38	1362.85	1292.04	1227.95
546	43.600	1453.65	1413.27	1386.65	1362.85	1292.04	1227.95
547	43.680	1454.19	1413.80	1386.88	1362.86	1292.04	1227.95
548	43.760	1454.71	1414.94	1387.07	1362.86	1292.04	1227.95
549	43.840	1455.24	1415.77	1387.24	1362.87	1292.04	1227.95

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
550	43.920	1455.81	1416.27	1387.39	1362.89	1292.04	1227.95
551	44.000	1456.39	1416.78	1387.55	1362.92	1292.04	1227.95
552	44.080	1456.60	1417.29	1387.72	1362.99	1292.04	1227.95
553	44.160	1456.51	1417.70	1387.96	1363.16	1292.04	1227.95
554	44.240	1456.39	1418.03	1388.35	1363.50	1292.04	1227.95
555	44.320	1456.26	1418.24	1388.84	1364.01	1292.04	1227.95
556	44.400	1456.14	1418.35	1389.33	1364.59	1292.04	1227.95
557	44.480	1456.01	1418.38	1389.72	1365.17	1292.04	1227.95
558	44.560	1455.87	1418.36	1389.99	1365.72	1292.04	1227.95
559	44.640	1455.74	1418.31	1390.16	1366.29	1292.04	1227.95
560	44.720	1455.60	1418.25	1390.25	1366.88	1292.04	1227.95
561	44.800	1455.47	1418.18	1390.28	1367.38	1292.04	1227.95
562	44.880	1455.34	1418.11	1390.28	1367.76	1292.04	1227.95
563	44.960	1455.22	1418.02	1390.25	1368.00	1292.04	1227.95
564	45.040	1455.09	1417.93	1390.20	1368.15	1292.04	1227.95
565	45.120	1454.97	1417.84	1390.15	1368.23	1292.04	1227.95
566	45.200	1454.87	1417.76	1390.09	1368.25	1292.04	1227.95
567	45.280	1454.76	1417.68	1390.02	1368.24	1292.04	1227.95
568	45.320	1454.71	1417.64	1389.99	1368.23	1292.04	1227.95
569	45.360	1454.66	1417.59	1389.96	1368.21	1292.04	1227.95
570	45.440	1454.55	1417.50	1389.89	1368.16	1292.04	1227.95
571	45.520	1454.44	1417.41	1389.83	1368.11	1292.04	1227.95
572	45.560	1454.39	1417.37	1389.79	1368.08	1292.04	1227.95
573	45.600	1454.33	1417.34	1389.76	1368.04	1292.04	1227.95
574	45.610	1454.32	1417.33	1389.75	1368.04	1292.04	1227.95
575	45.680	1454.22	1417.25	1389.69	1367.98	1292.06	1227.95
576	45.760	1454.11	1417.15	1389.63	1367.91	1292.10	1227.95
577	45.840	1453.99	1417.06	1389.56	1367.84	1292.18	1227.95
578	45.920	1453.88	1416.98	1389.50	1367.77	1292.28	1227.95
579	46.000	1453.77	1416.90	1389.43	1367.71	1292.43	1227.95
580	46.080	1453.66	1416.79	1389.37	1367.64	1292.89	1227.95
581	46.160	1453.54	1416.70	1389.30	1367.57	1294.16	1227.95
582	46.240	1453.42	1416.61	1389.23	1367.50	1296.83	1227.95
583	46.280	1453.36	1416.57	1389.20	1367.47	1298.07	1227.95
584	46.320	1453.30	1416.52	1389.17	1367.43	1298.92	1227.95
585	46.400	1453.18	1416.41	1389.10	1367.37	1299.69	1227.95
586	46.440	1453.11	1416.36	1389.06	1367.33	1299.90	1227.95
587	46.480	1453.05	1416.32	1389.03	1367.30	1300.02	1227.95
588	46.520	1452.99	1416.28	1388.99	1367.27	1300.09	1227.95
589	46.560	1452.92	1416.24	1388.96	1367.23	1300.15	1227.95
590	46.600	1452.86	1416.19	1388.92	1367.20	1300.22	1227.95
591	46.640	1452.79	1416.13	1388.89	1367.16	1300.28	1227.95
592	46.720	1452.66	1416.01	1388.82	1367.10	1300.39	1227.95
593	46.800	1452.52	1415.93	1388.75	1367.03	1300.49	1227.95
594	46.880	1452.38	1415.83	1388.68	1366.96	1300.58	1227.95
595	46.960	1452.31	1415.72	1388.61	1366.89	1300.64	1227.95
596	47.040	1452.26	1415.61	1388.54	1366.82	1300.68	1227.95
597	47.120	1452.21	1415.51	1388.47	1366.75	1300.70	1227.95
598	47.200	1452.16	1415.41	1388.40	1366.69	1300.70	1227.95
599	47.280	1452.11	1415.29	1388.32	1366.62	1300.67	1227.96

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
600	47.360	1452.06	1415.14	1388.25	1366.55	1300.63	1227.98
601	47.440	1452.00	1415.01	1388.18	1366.48	1300.56	1228.05
602	47.520	1451.95	1414.85	1388.11	1366.41	1300.45	1228.24
603	47.600	1451.90	1414.64	1388.05	1366.34	1300.32	1228.67
604	47.680	1451.84	1414.35	1387.99	1366.28	1300.14	1229.44
605	47.760	1451.79	1413.91	1387.94	1366.21	1299.89	1230.69
606	47.840	1451.74	1413.50	1387.89	1366.15	1299.71	1231.76
607	47.920	1451.68	1413.29	1387.86	1366.08	1299.58	1232.52
608	48.000	1451.62	1413.14	1387.83	1366.02	1299.48	1233.19
609	48.080	1451.56	1413.01	1387.80	1365.96	1299.40	1233.81
610	48.160	1451.50	1412.92	1387.77	1365.91	1299.32	1234.32
611	48.240	1451.44	1412.84	1387.73	1365.85	1299.24	1234.70
612	48.320	1451.38	1412.76	1387.68	1365.81	1299.17	1234.96
613	48.400	1451.32	1412.68	1387.63	1365.76	1299.10	1235.13
614	48.480	1451.26	1412.60	1387.57	1365.72	1299.02	1235.22
615	48.560	1451.19	1412.51	1387.52	1365.69	1298.95	1235.23
616	48.640	1451.13	1412.43	1387.47	1365.65	1298.88	1235.19
617	48.720	1451.07	1412.34	1387.42	1365.61	1298.81	1235.10
618	48.800	1451.00	1412.25	1387.38	1365.56	1298.73	1234.98
619	48.880	1450.94	1412.16	1387.34	1365.51	1298.66	1234.85
620	48.960	1450.88	1412.07	1387.30	1365.46	1298.59	1234.71
621	49.040	1450.84	1411.98	1387.26	1365.41	1298.52	1234.56
622	49.120	1450.82	1411.89	1387.23	1365.36	1298.45	1234.41
623	49.200	1450.80	1411.79	1387.19	1365.31	1298.39	1234.26
624	49.280	1450.78	1411.70	1387.15	1365.27	1298.32	1234.12
625	49.360	1450.77	1411.62	1387.11	1365.23	1298.25	1233.98
626	49.440	1450.75	1411.54	1387.07	1365.18	1298.18	1233.85
627	49.520	1450.73	1411.48	1387.04	1365.15	1298.11	1233.73
628	49.600	1450.71	1411.42	1387.00	1365.11	1298.05	1233.62
629	49.680	1450.69	1411.38	1386.97	1365.07	1297.99	1233.52
630	49.760	1450.67	1411.34	1386.93	1365.03	1297.93	1233.42
631	49.840	1450.65	1411.30	1386.90	1365.00	1297.88	1233.33
632	49.920	1450.63	1411.26	1386.87	1364.96	1297.83	1233.25
633	50.000	1450.60	1411.23	1386.85	1364.92	1297.79	1233.17
634	50.080	1450.58	1411.19	1386.82	1364.89	1297.75	1233.10
635	50.160	1450.56	1411.15	1386.80	1364.85	1297.71	1233.03
636	50.240	1450.54	1411.12	1386.78	1364.82	1297.67	1232.97
637	50.320	1450.51	1411.08	1386.76	1364.79	1297.62	1232.90
638	50.400	1450.49	1411.04	1386.74	1364.76	1297.58	1232.84
639	50.480	1450.47	1411.00	1386.72	1364.73	1297.53	1232.78
640	50.560	1450.45	1410.96	1386.71	1364.69	1297.49	1232.73
641	50.640	1450.42	1410.92	1386.69	1364.66	1297.45	1232.67
642	50.720	1450.40	1410.88	1386.68	1364.63	1297.40	1232.62
643	50.800	1450.37	1410.84	1386.66	1364.61	1297.35	1232.57
644	50.880	1450.34	1410.80	1386.65	1364.58	1297.30	1232.51
645	50.960	1450.31	1410.76	1386.63	1364.55	1297.23	1232.46
646	51.040	1450.28	1410.71	1386.61	1364.53	1297.17	1232.41
647	51.120	1450.25	1410.67	1386.60	1364.51	1297.10	1232.36
648	51.200	1450.24	1410.63	1386.58	1364.48	1297.03	1232.30
649	51.280	1450.23	1410.59	1386.57	1364.46	1296.96	1232.26

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
650	51.360	1450.21	1410.55	1386.55	1364.44	1296.89	1232.21
651	51.440	1450.20	1410.51	1386.54	1364.42	1296.83	1232.17
652	51.520	1450.19	1410.48	1386.52	1364.40	1296.78	1232.12
653	51.600	1450.18	1410.44	1386.50	1364.38	1296.73	1232.08
654	51.680	1450.16	1410.41	1386.49	1364.36	1296.69	1232.04
655	51.760	1450.15	1410.39	1386.47	1364.34	1296.65	1232.00
656	51.840	1450.14	1410.36	1386.46	1364.32	1296.61	1231.96
657	51.920	1450.12	1410.34	1386.45	1364.30	1296.58	1231.92
658	52.000	1450.11	1410.32	1386.43	1364.28	1296.55	1231.87
659	52.080	1450.10	1410.30	1386.42	1364.26	1296.51	1231.83
660	52.160	1450.08	1410.28	1386.41	1364.24	1296.48	1231.79
661	52.240	1450.07	1410.26	1386.40	1364.22	1296.45	1231.75
662	52.320	1450.06	1410.24	1386.39	1364.20	1296.42	1231.70
663	52.400	1450.04	1410.22	1386.38	1364.18	1296.39	1231.66
664	52.480	1450.03	1410.20	1386.37	1364.16	1296.37	1231.61
665	52.560	1450.02	1410.18	1386.36	1364.14	1296.34	1231.57
666	52.640	1450.00	1410.16	1386.35	1364.12	1296.31	1231.53
667	52.720	1449.98	1410.14	1386.35	1364.10	1296.29	1231.49
668	52.800	1449.96	1410.13	1386.34	1364.08	1296.26	1231.45
669	52.880	1449.94	1410.11	1386.33	1364.06	1296.24	1231.41
670	52.960	1449.92	1410.09	1386.33	1364.05	1296.22	1231.37
671	53.040	1449.90	1410.06	1386.32	1364.03	1296.19	1231.33
672	53.120	1449.88	1410.04	1386.31	1364.02	1296.17	1231.29
673	53.200	1449.86	1410.02	1386.31	1364.00	1296.15	1231.26
674	53.280	1449.84	1410.00	1386.30	1363.99	1296.13	1231.23
675	53.360	1449.82	1409.98	1386.29	1363.97	1296.11	1231.21
676	53.440	1449.80	1409.95	1386.29	1363.96	1296.09	1231.20
677	53.520	1449.78	1409.93	1386.28	1363.95	1296.07	1231.18
678	53.600	1449.76	1409.90	1386.27	1363.94	1296.05	1231.17
679	53.680	1449.73	1409.88	1386.27	1363.92	1296.03	1231.17
680	53.760	1449.71	1409.85	1386.26	1363.91	1296.02	1231.17
681	53.840	1449.69	1409.83	1386.26	1363.90	1296.00	1231.16
682	53.920	1449.66	1409.80	1386.25	1363.89	1295.97	1231.16
683	54.000	1449.64	1409.77	1386.24	1363.88	1295.95	1231.16
684	54.080	1449.62	1409.74	1386.24	1363.87	1295.92	1231.16
685	54.160	1449.59	1409.71	1386.23	1363.86	1295.88	1231.16
686	54.240	1449.57	1409.68	1386.22	1363.85	1295.85	1231.16
687	54.320	1449.55	1409.65	1386.22	1363.84	1295.81	1231.16
688	54.400	1449.52	1409.63	1386.21	1363.83	1295.77	1231.16
689	54.480	1449.49	1409.60	1386.20	1363.82	1295.72	1231.15
690	54.560	1449.47	1409.57	1386.19	1363.81	1295.67	1231.14
691	54.640	1449.44	1409.54	1386.19	1363.80	1295.62	1231.13
692	54.720	1449.42	1409.51	1386.18	1363.79	1295.56	1231.13
693	54.800	1449.39	1409.48	1386.17	1363.78	1295.49	1231.13
694	54.880	1449.36	1409.44	1386.17	1363.77	1295.40	1231.14
695	54.960	1449.33	1409.41	1386.16	1363.76	1295.31	1231.14
696	55.040	1449.31	1409.38	1386.15	1363.75	1295.20	1231.14
697	55.120	1449.31	1409.35	1386.15	1363.74	1295.01	1231.14
698	55.201	1449.31	1409.32	1386.14	1363.73	1294.71	1231.15
699	55.281	1449.31	1409.28	1386.13	1363.72	1294.45	1231.15

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
700	55.361	1449.30	1409.25	1386.12	1363.70	1294.26	1231.15
701	55.441	1449.30	1409.22	1386.12	1363.69	1294.11	1231.15
702	55.521	1449.30	1409.19	1386.11	1363.68	1294.02	1231.16
703	55.601	1449.30	1409.16	1386.10	1363.67	1293.94	1231.16
704	55.681	1449.29	1409.14	1386.10	1363.66	1293.89	1231.16
705	55.761	1449.29	1409.13	1386.09	1363.65	1293.84	1231.16
706	55.841	1449.29	1409.11	1386.08	1363.64	1293.81	1231.17
707	55.921	1449.29	1409.11	1386.07	1363.62	1293.78	1231.17
708	56.001	1449.29	1409.10	1386.07	1363.61	1293.75	1231.17
709	56.081	1449.28	1409.10	1386.06	1363.60	1293.72	1231.17
710	56.161	1449.28	1409.10	1386.05	1363.59	1293.70	1231.18
711	56.241	1449.28	1409.09	1386.05	1363.58	1293.68	1231.18
712	56.321	1449.28	1409.09	1386.04	1363.56	1293.66	1231.18
713	56.401	1449.27	1409.09	1386.03	1363.55	1293.64	1231.18
714	56.481	1449.27	1409.08	1386.03	1363.54	1293.62	1231.18
715	56.561	1449.27	1409.08	1386.02	1363.53	1293.60	1231.18
716	56.641	1449.27	1409.08	1386.01	1363.51	1293.58	1231.18
717	56.721	1449.26	1409.07	1386.01	1363.50	1293.56	1231.18
718	56.801	1449.26	1409.07	1386.00	1363.49	1293.55	1231.19
719	56.881	1449.26	1409.07	1386.00	1363.47	1293.53	1231.19
720	56.961	1449.26	1409.07	1386.00	1363.46	1293.51	1231.19
721	57.041	1449.25	1409.06	1386.00	1363.45	1293.49	1231.19
722	57.121	1449.25	1409.06	1386.00	1363.44	1293.48	1231.19
723	57.201	1449.25	1409.06	1385.99	1363.42	1293.46	1231.18
724	57.281	1449.25	1409.05	1385.99	1363.41	1293.44	1231.18
725	57.361	1449.24	1409.05	1385.99	1363.40	1293.43	1231.18
726	57.441	1449.24	1409.05	1385.99	1363.39	1293.41	1231.18
727	57.521	1449.24	1409.05	1385.99	1363.37	1293.39	1231.17
728	57.601	1449.24	1409.04	1385.99	1363.36	1293.38	1231.17
729	57.681	1449.24	1409.04	1385.99	1363.35	1293.36	1231.17
730	57.761	1449.23	1409.04	1385.99	1363.34	1293.34	1231.16
731	57.841	1449.23	1409.03	1385.99	1363.34	1293.33	1231.16
732	57.921	1449.23	1409.03	1385.99	1363.33	1293.31	1231.15
733	58.001	1449.23	1409.03	1385.99	1363.32	1293.29	1231.15
734	58.081	1449.22	1409.02	1385.99	1363.32	1293.28	1231.15
735	58.161	1449.22	1409.02	1385.99	1363.31	1293.26	1231.15
736	58.241	1449.22	1409.02	1385.98	1363.31	1293.24	1231.15
737	58.321	1449.22	1409.02	1385.98	1363.31	1293.23	1231.15
738	58.401	1449.21	1409.01	1385.98	1363.30	1293.21	1231.15
739	58.481	1449.21	1409.01	1385.98	1363.30	1293.19	1231.15
740	58.561	1449.21	1409.01	1385.98	1363.30	1293.18	1231.15
741	58.641	1449.21	1409.00	1385.98	1363.30	1293.16	1231.15
742	58.721	1449.20	1409.00	1385.98	1363.30	1293.14	1231.15
743	58.801	1449.20	1409.00	1385.98	1363.29	1293.13	1231.15
744	58.881	1449.20	1408.99	1385.98	1363.29	1293.11	1231.15
745	58.961	1449.20	1408.99	1385.98	1363.29	1293.09	1231.15
746	59.041	1449.19	1408.99	1385.98	1363.29	1293.08	1231.14
747	59.121	1449.19	1408.99	1385.98	1363.29	1293.06	1231.14
748	59.201	1449.19	1408.98	1385.98	1363.29	1293.04	1231.14
749	59.281	1449.19	1408.98	1385.98	1363.28	1293.03	1231.14

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
750	59.361	1449.18	1408.98	1385.97	1363.28	1293.01	1231.14
751	59.441	1449.18	1408.97	1385.97	1363.28	1292.99	1231.15
752	59.521	1449.18	1408.97	1385.97	1363.28	1292.98	1231.15
753	59.601	1449.18	1408.97	1385.97	1363.28	1292.96	1231.15
754	59.681	1449.17	1408.96	1385.97	1363.28	1292.94	1231.16
755	59.761	1449.17	1408.96	1385.97	1363.28	1292.93	1231.16
756	59.841	1449.17	1408.96	1385.97	1363.27	1292.91	1231.17
757	59.921	1449.17	1408.96	1385.97	1363.27	1292.90	1231.17
758	60.001	1449.16	1408.95	1385.97	1363.27	1292.88	1231.17
759	60.081	1449.16	1408.95	1385.97	1363.27	1292.87	1231.18
760	60.161	1449.16	1408.95	1385.97	1363.27	1292.85	1231.18
761	60.241	1449.16	1408.94	1385.97	1363.27	1292.84	1231.18
762	60.321	1449.15	1408.94	1385.97	1363.27	1292.82	1231.18
763	60.401	1449.15	1408.94	1385.97	1363.26	1292.81	1231.19
764	60.481	1449.15	1408.93	1385.96	1363.26	1292.79	1231.19
765	60.561	1449.14	1408.93	1385.96	1363.26	1292.78	1231.19
766	60.641	1449.14	1408.93	1385.96	1363.26	1292.77	1231.19
767	60.721	1449.14	1408.92	1385.96	1363.26	1292.76	1231.19
768	60.801	1449.14	1408.92	1385.96	1363.26	1292.75	1231.19
769	60.881	1449.13	1408.92	1385.96	1363.25	1292.73	1231.19
770	60.961	1449.13	1408.92	1385.96	1363.25	1292.72	1231.19
771	61.041	1449.13	1408.91	1385.96	1363.25	1292.72	1231.19
772	61.121	1449.13	1408.91	1385.96	1363.25	1292.71	1231.19
773	61.201	1449.12	1408.91	1385.96	1363.25	1292.70	1231.19
774	61.281	1449.12	1408.90	1385.96	1363.25	1292.69	1231.18
775	61.361	1449.12	1408.90	1385.96	1363.25	1292.68	1231.18
776	61.441	1449.12	1408.90	1385.96	1363.24	1292.68	1231.18
777	61.521	1449.11	1408.89	1385.96	1363.24	1292.67	1231.18
778	61.601	1449.11	1408.89	1385.95	1363.24	1292.66	1231.18
779	61.681	1449.11	1408.89	1385.95	1363.24	1292.66	1231.18
780	61.761	1449.10	1408.88	1385.95	1363.24	1292.66	1231.18
781	61.841	1449.10	1408.88	1385.95	1363.24	1292.65	1231.18
782	61.921	1449.10	1408.88	1385.95	1363.23	1292.65	1231.18
783	62.001	1449.10	1408.87	1385.95	1363.23	1292.64	1231.18
784	62.081	1449.09	1408.87	1385.95	1363.23	1292.64	1231.18
785	62.161	1449.09	1408.87	1385.95	1363.23	1292.64	1231.18
786	62.241	1449.09	1408.86	1385.95	1363.23	1292.64	1231.18
787	62.321	1449.09	1408.86	1385.95	1363.23	1292.63	1231.18
788	62.401	1449.08	1408.86	1385.95	1363.23	1292.63	1231.18
789	62.481	1449.08	1408.86	1385.95	1363.22	1292.63	1231.18
790	62.561	1449.08	1408.85	1385.95	1363.22	1292.63	1231.18
791	62.641	1449.07	1408.85	1385.95	1363.22	1292.63	1231.18
792	62.721	1449.07	1408.85	1385.94	1363.22	1292.63	1231.18
793	62.801	1449.07	1408.84	1385.94	1363.22	1292.63	1231.18
794	62.881	1449.07	1408.84	1385.94	1363.22	1292.63	1231.18
795	62.961	1449.06	1408.84	1385.94	1363.21	1292.63	1231.18
796	63.041	1449.06	1408.83	1385.94	1363.21	1292.63	1231.18
797	63.121	1449.06	1408.83	1385.94	1363.21	1292.62	1231.18
798	63.201	1449.06	1408.83	1385.94	1363.21	1292.62	1231.18
799	63.281	1449.05	1408.82	1385.94	1363.21	1292.62	1231.18

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
800	63.361	1449.05	1408.82	1385.94	1363.21	1292.62	1231.18
801	63.441	1449.05	1408.82	1385.94	1363.20	1292.62	1231.19
802	63.521	1449.04	1408.81	1385.94	1363.20	1292.62	1231.19
803	63.601	1449.04	1408.81	1385.94	1363.20	1292.62	1231.19
804	63.681	1449.04	1408.81	1385.94	1363.20	1292.62	1231.19
805	63.761	1449.04	1408.80	1385.94	1363.20	1292.62	1231.19
806	63.841	1449.03	1408.80	1385.93	1363.20	1292.62	1231.19
807	63.921	1449.03	1408.80	1385.93	1363.20	1292.62	1231.19
808	64.001	1449.03	1408.79	1385.93	1363.19	1292.62	1231.19
809	64.081	1449.02	1408.79	1385.93	1363.19	1292.62	1231.20
810	64.161	1449.02	1408.79	1385.93	1363.19	1292.62	1231.20
811	64.241	1449.02	1408.78	1385.93	1363.19	1292.62	1231.20
812	64.321	1449.01	1408.78	1385.93	1363.19	1292.62	1231.20
813	64.401	1449.01	1408.78	1385.93	1363.19	1292.62	1231.20
814	64.481	1449.01	1408.77	1385.93	1363.18	1292.62	1231.20
815	64.561	1449.01	1408.77	1385.93	1363.18	1292.62	1231.20
816	64.641	1449.00	1408.77	1385.93	1363.18	1292.62	1231.20
817	64.721	1449.00	1408.76	1385.93	1363.18	1292.62	1231.20
818	64.801	1449.00	1408.76	1385.93	1363.18	1292.62	1231.20
819	64.881	1448.99	1408.76	1385.92	1363.18	1292.62	1231.20
820	64.961	1448.99	1408.75	1385.92	1363.17	1292.62	1231.20
821	65.041	1448.99	1408.75	1385.92	1363.17	1292.62	1231.20
822	65.121	1448.99	1408.75	1385.92	1363.17	1292.62	1231.20
823	65.201	1448.98	1408.74	1385.92	1363.17	1292.62	1231.20
824	65.281	1448.98	1408.74	1385.92	1363.17	1292.62	1231.20
825	65.361	1448.98	1408.74	1385.92	1363.17	1292.62	1231.20
826	65.441	1448.98	1408.73	1385.92	1363.16	1292.62	1231.21
827	65.521	1448.98	1408.73	1385.92	1363.16	1292.62	1231.21
828	65.601	1448.97	1408.73	1385.92	1363.16	1292.62	1231.21
829	65.681	1448.97	1408.72	1385.92	1363.16	1292.62	1231.21
830	65.761	1448.97	1408.72	1385.92	1363.16	1292.62	1231.21
831	65.841	1448.97	1408.72	1385.92	1363.16	1292.62	1231.21
832	65.921	1448.97	1408.72	1385.92	1363.15	1292.62	1231.20
833	66.001	1448.96	1408.71	1385.91	1363.15	1292.62	1231.20
834	66.081	1448.96	1408.71	1385.91	1363.15	1292.62	1231.20
835	66.161	1448.96	1408.71	1385.91	1363.15	1292.62	1231.20
836	66.241	1448.96	1408.71	1385.91	1363.15	1292.62	1231.20
837	66.321	1448.96	1408.71	1385.91	1363.14	1292.62	1231.21
838	66.401	1448.95	1408.70	1385.91	1363.14	1292.62	1231.21
839	66.481	1448.95	1408.70	1385.91	1363.14	1292.62	1231.21
840	66.561	1448.95	1408.70	1385.91	1363.14	1292.62	1231.21
841	66.641	1448.95	1408.70	1385.91	1363.14	1292.62	1231.21
842	66.721	1448.94	1408.69	1385.91	1363.14	1292.62	1231.21
843	66.801	1448.94	1408.69	1385.91	1363.13	1292.62	1231.21
844	66.881	1448.94	1408.69	1385.91	1363.13	1292.62	1231.21
845	66.961	1448.94	1408.69	1385.91	1363.13	1292.62	1231.21
846	67.041	1448.94	1408.68	1385.91	1363.13	1292.62	1231.21
847	67.121	1448.93	1408.68	1385.91	1363.13	1292.62	1231.21
848	67.201	1448.93	1408.68	1385.90	1363.13	1292.62	1231.21
849	67.281	1448.93	1408.68	1385.90	1363.12	1292.61	1231.21

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
850	67.361	1448.93	1408.68	1385.90	1363.12	1292.60	1231.21
851	67.441	1448.93	1408.67	1385.90	1363.12	1292.59	1231.21
852	67.521	1448.92	1408.67	1385.90	1363.12	1292.58	1231.21
853	67.601	1448.92	1408.67	1385.90	1363.12	1292.56	1231.21
854	67.681	1448.92	1408.67	1385.90	1363.12	1292.54	1231.21
855	67.761	1448.92	1408.66	1385.90	1363.11	1292.52	1231.21
856	67.841	1448.91	1408.66	1385.90	1363.11	1292.50	1231.21
857	67.921	1448.91	1408.66	1385.90	1363.11	1292.49	1231.21
858	68.001	1448.91	1408.66	1385.90	1363.11	1292.47	1231.21
859	68.081	1448.91	1408.65	1385.90	1363.11	1292.46	1231.21
860	68.161	1448.91	1408.65	1385.90	1363.11	1292.44	1231.21
861	68.241	1448.90	1408.65	1385.90	1363.11	1292.43	1231.21
862	68.321	1448.90	1408.65	1385.90	1363.10	1292.43	1231.21
863	68.401	1448.90	1408.65	1385.90	1363.10	1292.42	1231.21
864	68.481	1448.90	1408.64	1385.90	1363.10	1292.41	1231.21
865	68.561	1448.89	1408.64	1385.90	1363.10	1292.41	1231.21
866	68.641	1448.89	1408.64	1385.90	1363.10	1292.40	1231.21
867	68.721	1448.89	1408.64	1385.90	1363.10	1292.40	1231.21
868	68.801	1448.89	1408.63	1385.89	1363.10	1292.39	1231.21
869	68.881	1448.89	1408.63	1385.89	1363.10	1292.39	1231.21
870	68.961	1448.88	1408.63	1385.89	1363.09	1292.39	1231.21
871	69.041	1448.88	1408.63	1385.89	1363.09	1292.39	1231.21
872	69.121	1448.88	1408.62	1385.89	1363.09	1292.38	1231.21
873	69.201	1448.88	1408.62	1385.89	1363.09	1292.38	1231.20
874	69.281	1448.87	1408.62	1385.89	1363.09	1292.38	1231.20
875	69.361	1448.87	1408.62	1385.89	1363.09	1292.38	1231.20
876	69.441	1448.87	1408.61	1385.89	1363.09	1292.38	1231.20
877	69.521	1448.87	1408.61	1385.89	1363.09	1292.37	1231.20
878	69.601	1448.87	1408.61	1385.89	1363.08	1292.37	1231.20
879	69.681	1448.86	1408.61	1385.89	1363.08	1292.37	1231.20
880	69.761	1448.86	1408.60	1385.89	1363.08	1292.37	1231.19
881	69.841	1448.86	1408.60	1385.89	1363.08	1292.36	1231.19
882	69.921	1448.86	1408.60	1385.89	1363.08	1292.36	1231.19
883	70.001	1448.85	1408.60	1385.89	1363.08	1292.36	1231.19
884	70.081	1448.85	1408.60	1385.89	1363.08	1292.36	1231.19
885	70.161	1448.85	1408.59	1385.89	1363.08	1292.36	1231.19
886	70.241	1448.85	1408.59	1385.89	1363.07	1292.35	1231.19
887	70.321	1448.84	1408.59	1385.89	1363.07	1292.35	1231.19
888	70.401	1448.84	1408.59	1385.88	1363.07	1292.35	1231.19
889	70.481	1448.84	1408.58	1385.88	1363.07	1292.35	1231.19
890	70.561	1448.84	1408.58	1385.88	1363.07	1292.35	1231.19
891	70.641	1448.83	1408.58	1385.88	1363.07	1292.34	1231.19
892	70.721	1448.83	1408.58	1385.88	1363.07	1292.34	1231.19
893	70.801	1448.83	1408.57	1385.88	1363.07	1292.34	1231.19
894	70.881	1448.83	1408.57	1385.88	1363.06	1292.34	1231.19
895	70.961	1448.82	1408.57	1385.88	1363.06	1292.34	1231.19
896	71.041	1448.82	1408.57	1385.88	1363.06	1292.34	1231.19
897	71.121	1448.82	1408.56	1385.88	1363.06	1292.33	1231.19
898	71.201	1448.82	1408.56	1385.88	1363.06	1292.33	1231.19
899	71.281	1448.81	1408.56	1385.88	1363.06	1292.33	1231.19

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
900	71.361	1448.81	1408.56	1385.88	1363.06	1292.33	1231.19
901	71.441	1448.81	1408.55	1385.88	1363.06	1292.33	1231.20
902	71.521	1448.81	1408.55	1385.88	1363.05	1292.33	1231.20
903	71.601	1448.81	1408.55	1385.88	1363.05	1292.33	1231.20
904	71.681	1448.80	1408.55	1385.88	1363.05	1292.32	1231.20
905	71.761	1448.80	1408.54	1385.88	1363.05	1292.32	1231.20
906	71.841	1448.80	1408.54	1385.88	1363.05	1292.32	1231.20
907	71.921	1448.80	1408.54	1385.87	1363.05	1292.32	1231.20
908	72.001	1448.79	1408.54	1385.87	1363.05	1292.32	1231.20
909	72.081	1448.79	1408.53	1385.87	1363.05	1292.32	1231.20
910	72.161	1448.79	1408.53	1385.87	1363.04	1292.32	1231.20
911	72.241	1448.78	1408.53	1385.87	1363.04	1292.31	1231.20
912	72.321	1448.78	1408.53	1385.87	1363.04	1292.31	1231.20
913	72.401	1448.78	1408.53	1385.87	1363.04	1292.31	1231.20
914	72.481	1448.78	1408.52	1385.87	1363.04	1292.31	1231.20
915	72.561	1448.77	1408.52	1385.87	1363.04	1292.31	1231.20
916	72.641	1448.77	1408.52	1385.87	1363.04	1292.31	1231.20
917	72.721	1448.77	1408.52	1385.87	1363.04	1292.31	1231.20
918	72.801	1448.77	1408.51	1385.87	1363.03	1292.31	1231.20
919	72.881	1448.76	1408.51	1385.87	1363.03	1292.31	1231.20
920	72.961	1448.76	1408.51	1385.87	1363.03	1292.30	1231.20
921	73.041	1448.76	1408.51	1385.87	1363.03	1292.30	1231.20
922	73.121	1448.76	1408.50	1385.87	1363.03	1292.30	1231.20
923	73.201	1448.75	1408.50	1385.87	1363.03	1292.31	1231.20
924	73.281	1448.75	1408.50	1385.87	1363.03	1292.31	1231.20
925	73.361	1448.75	1408.50	1385.87	1363.02	1292.32	1231.20
926	73.441	1448.75	1408.49	1385.86	1363.02	1292.34	1231.20
927	73.521	1448.74	1408.49	1385.86	1363.02	1292.38	1231.20
928	73.601	1448.74	1408.49	1385.86	1363.02	1292.41	1231.20
929	73.681	1448.74	1408.49	1385.86	1363.02	1292.43	1231.20
930	73.761	1448.73	1408.48	1385.86	1363.02	1292.45	1231.20
931	73.841	1448.73	1408.48	1385.86	1363.02	1292.45	1231.20
932	73.921	1448.73	1408.48	1385.86	1363.02	1292.43	1231.20
933	74.001	1448.73	1408.48	1385.86	1363.01	1292.41	1231.20
934	74.081	1448.72	1408.47	1385.86	1363.01	1292.39	1231.20
935	74.161	1448.72	1408.47	1385.86	1363.01	1292.36	1231.20
936	74.241	1448.72	1408.47	1385.86	1363.01	1292.34	1231.20
937	74.321	1448.71	1408.46	1385.86	1363.01	1292.32	1231.20
938	74.401	1448.71	1408.46	1385.86	1363.01	1292.30	1231.20
939	74.481	1448.71	1408.46	1385.86	1363.01	1292.29	1231.20
940	74.561	1448.71	1408.46	1385.86	1363.00	1292.28	1231.20
941	74.641	1448.70	1408.45	1385.86	1363.00	1292.27	1231.20
942	74.721	1448.70	1408.45	1385.86	1363.00	1292.27	1231.20
943	74.801	1448.70	1408.45	1385.86	1363.00	1292.26	1231.20
944	74.881	1448.69	1408.45	1385.86	1363.00	1292.26	1231.21
945	74.961	1448.69	1408.44	1385.85	1363.00	1292.26	1231.21
946	75.041	1448.69	1408.44	1385.85	1363.00	1292.26	1231.21
947	75.121	1448.69	1408.44	1385.85	1362.99	1292.25	1231.21
948	75.201	1448.68	1408.44	1385.85	1362.99	1292.25	1231.21
949	75.281	1448.68	1408.43	1385.85	1362.99	1292.25	1231.21

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
950	75.361	1448.68	1408.43	1385.85	1362.99	1292.25	1231.21
951	75.441	1448.67	1408.43	1385.85	1362.99	1292.25	1231.21
952	75.521	1448.67	1408.43	1385.85	1362.99	1292.25	1231.22
953	75.601	1448.67	1408.42	1385.85	1362.99	1292.24	1231.22
954	75.681	1448.66	1408.42	1385.85	1362.99	1292.24	1231.22
955	75.761	1448.66	1408.42	1385.85	1362.98	1292.24	1231.22
956	75.841	1448.66	1408.42	1385.85	1362.98	1292.24	1231.22
957	75.921	1448.65	1408.41	1385.85	1362.98	1292.24	1231.22
958	76.001	1448.65	1408.41	1385.85	1362.98	1292.24	1231.21
959	76.081	1448.65	1408.41	1385.85	1362.98	1292.24	1231.21
960	76.161	1448.65	1408.41	1385.85	1362.98	1292.23	1231.21
961	76.241	1448.64	1408.40	1385.85	1362.98	1292.23	1231.21
962	76.321	1448.64	1408.40	1385.85	1362.97	1292.23	1231.20
963	76.401	1448.64	1408.40	1385.85	1362.97	1292.23	1231.20
964	76.481	1448.63	1408.40	1385.84	1362.97	1292.23	1231.20
965	76.561	1448.63	1408.39	1385.84	1362.97	1292.23	1231.20
966	76.641	1448.63	1408.39	1385.84	1362.97	1292.22	1231.20
967	76.721	1448.62	1408.39	1385.84	1362.97	1292.22	1231.20
968	76.801	1448.62	1408.39	1385.84	1362.97	1292.22	1231.20
969	76.881	1448.62	1408.38	1385.84	1362.96	1292.22	1231.20
970	76.961	1448.61	1408.38	1385.84	1362.96	1292.22	1231.20
971	77.041	1448.61	1408.38	1385.84	1362.96	1292.22	1231.20
972	77.121	1448.61	1408.37	1385.84	1362.96	1292.22	1231.20
973	77.201	1448.60	1408.37	1385.84	1362.96	1292.21	1231.20
974	77.281	1448.60	1408.37	1385.84	1362.96	1292.21	1231.20
975	77.361	1448.59	1408.37	1385.84	1362.96	1292.21	1231.20
976	77.441	1448.59	1408.36	1385.84	1362.95	1292.21	1231.20
977	77.521	1448.59	1408.36	1385.84	1362.95	1292.21	1231.20
978	77.601	1448.58	1408.36	1385.84	1362.95	1292.21	1231.20
979	77.681	1448.58	1408.36	1385.84	1362.95	1292.20	1231.20
980	77.761	1448.58	1408.35	1385.84	1362.95	1292.20	1231.20
981	77.841	1448.57	1408.35	1385.84	1362.95	1292.20	1231.20
982	77.921	1448.57	1408.35	1385.84	1362.94	1292.20	1231.20
983	78.001	1448.57	1408.35	1385.83	1362.94	1292.20	1231.20
984	78.081	1448.56	1408.34	1385.83	1362.94	1292.20	1231.20
985	78.161	1448.56	1408.34	1385.83	1362.94	1292.20	1231.20
986	78.241	1448.56	1408.34	1385.83	1362.94	1292.19	1231.20
987	78.321	1448.55	1408.33	1385.83	1362.94	1292.19	1231.20
988	78.401	1448.55	1408.33	1385.83	1362.94	1292.19	1231.20
989	78.481	1448.55	1408.33	1385.83	1362.93	1292.19	1231.20
990	78.561	1448.54	1408.33	1385.83	1362.93	1292.19	1231.20
991	78.641	1448.54	1408.32	1385.83	1362.93	1292.19	1231.21
992	78.721	1448.54	1408.32	1385.83	1362.93	1292.18	1231.21
993	78.801	1448.53	1408.32	1385.83	1362.93	1292.18	1231.21
994	78.881	1448.53	1408.32	1385.83	1362.93	1292.18	1231.21
995	78.961	1448.53	1408.31	1385.83	1362.93	1292.18	1231.21
996	79.041	1448.52	1408.31	1385.83	1362.92	1292.18	1231.21
997	79.121	1448.52	1408.31	1385.83	1362.92	1292.18	1231.21
998	79.201	1448.51	1408.30	1385.83	1362.92	1292.18	1231.21
999	79.281	1448.51	1408.30	1385.83	1362.92	1292.17	1231.20

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Water Surface Elevation YC(K,1) (ft MSL)	Station 2 Water Surface Elevation YC(K,2) (ft MSL)	Station 3 Water Surface Elevation YC(K,3) (ft MSL)	Station 4 Water Surface Elevation YC(K,4) (ft MSL)	Station 5 Water Surface Elevation YC(K,5) (ft MSL)	Station 6 Water Surface Elevation YC(K,6) (ft MSL)
1000	79.361	1448.51	1408.30	1385.83	1362.92	1292.17	1231.20
1001	79.441	1448.50	1408.30	1385.83	1362.92	1292.17	1231.20
1002	79.521	1448.50	1408.29	1385.82	1362.91	1292.17	1231.20
1003	79.601	1448.50	1408.29	1385.82	1362.91	1292.17	1231.20
1004	79.681	1448.49	1408.29	1385.82	1362.91	1292.17	1231.20
1005	79.761	1448.49	1408.28	1385.82	1362.91	1292.17	1231.20
1006	79.841	1448.48	1408.28	1385.82	1362.91	1292.16	1231.20

COMPUTED DISCHARGES AT REQUESTED
STATIONS WHERE HYDROGRAPHS ARE PLOTTED :

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs E3)	Station 2 Discharge QC(K,2) (cfs E3)	Station 3 Discharge QC(K,3) (cfs E3)	Station 4 Discharge QC(K,4) (cfs E3)	Station 5 Discharge QC(K,5) (cfs E3)	Station 6 Discharge QC(K,6) (cfs E3)
1	.000	5.00	5.00	8.77	8.78	8.78	8.77
2	.080	5.00	5.00	8.78	8.77	8.77	8.77
3	.160	5.00	5.00	8.78	8.78	8.78	8.77
4	.240	5.00	5.00	8.78	8.78	8.77	8.77
5	.320	5.00	5.00	8.78	8.78	8.78	8.77
6	.400	5.00	5.01	8.78	8.78	8.78	8.77
7	.480	5.00	5.01	8.78	8.78	8.78	8.77
8	.560	5.00	5.01	8.78	8.78	8.78	8.77
9	.640	5.00	5.01	8.78	8.78	8.78	8.77
10	.720	5.00	5.01	8.78	8.78	8.78	8.77
11	.800	5.00	5.01	8.78	8.78	8.78	8.77
12	.880	5.00	5.01	8.78	8.78	8.78	8.77
13	.960	5.00	5.01	8.78	8.78	8.78	8.77
14	1.040	5.00	5.01	8.78	8.78	8.78	8.77
15	1.120	5.00	5.01	8.78	8.78	8.78	8.77
16	1.200	5.00	5.01	8.78	8.78	8.78	8.77
17	1.280	5.00	5.01	8.78	8.78	8.78	8.77
18	1.360	5.00	5.01	8.78	8.78	8.78	8.77
19	1.440	5.00	5.01	8.78	8.78	8.78	8.77
20	1.520	5.00	5.01	8.78	8.78	8.78	8.77
21	1.600	5.00	5.01	8.78	8.78	8.78	8.77
22	1.680	5.00	5.01	8.78	8.78	8.78	8.77
23	1.760	5.00	5.01	8.78	8.78	8.78	8.77
24	1.840	5.00	5.01	8.78	8.78	8.78	8.77
25	1.920	5.00	5.01	8.78	8.78	8.78	8.77
26	2.000	5.00	5.01	8.78	8.78	8.78	8.77
27	2.080	5.00	5.01	8.78	8.78	8.78	8.77
28	2.160	5.00	5.01	8.78	8.78	8.78	8.77
29	2.240	5.00	5.01	8.78	8.78	8.78	8.77
30	2.320	5.00	5.01	8.78	8.78	8.78	8.77
31	2.400	5.00	5.01	8.78	8.78	8.78	8.77
32	2.480	5.00	5.01	8.78	8.78	8.78	8.77
33	2.560	5.00	5.01	8.78	8.78	8.78	8.77
34	2.640	5.00	5.01	8.78	8.78	8.78	8.77
35	2.720	5.00	5.01	8.78	8.78	8.78	8.77
36	2.800	5.00	5.01	8.78	8.78	8.78	8.77
37	2.880	5.00	5.01	8.78	8.78	8.78	8.77
38	2.960	5.00	5.01	8.78	8.78	8.78	8.77
39	3.040	5.00	5.01	8.78	8.78	8.78	8.77
40	3.120	5.00	5.01	8.78	8.78	8.78	8.77
41	3.200	5.00	5.01	8.78	8.78	8.78	8.77
42	3.280	5.00	5.01	8.78	8.78	8.78	8.77
43	3.360	5.00	5.01	8.78	8.78	8.78	8.77
44	3.440	5.00	5.01	8.78	8.78	8.78	8.77
45	3.520	5.00	5.01	8.78	8.78	8.78	8.77
46	3.600	5.00	5.01	8.78	8.78	8.78	8.77
47	3.680	5.00	5.01	8.78	8.78	8.78	8.77
48	3.760	5.00	5.01	8.78	8.78	8.78	8.77
49	3.840	5.00	5.01	8.78	8.78	8.78	8.77

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs'E3)	Station 2 Discharge QC(K,2) (cfs'E3)	Station 3 Discharge QC(K,3) (cfs'E3)	Station 4 Discharge QC(K,4) (cfs'E3)	Station 5 Discharge QC(K,5) (cfs'E3)	Station 6 Discharge QC(K,6) (cfs'E3)
50	3.920	5.00	5.01	8.78	8.78	8.78	8.77
51	4.000	5.00	5.01	8.78	8.78	8.78	8.77
52	4.080	5.00	5.01	8.78	8.78	8.78	8.77
53	4.160	5.00	5.01	8.78	8.78	8.78	8.77
54	4.240	5.00	5.01	8.78	8.78	8.78	8.77
55	4.320	5.00	5.01	8.78	8.78	8.78	8.77
56	4.400	5.00	5.01	8.78	8.78	8.78	8.77
57	4.480	5.00	5.01	8.78	8.78	8.78	8.77
58	4.560	5.00	5.01	8.78	8.78	8.78	8.77
59	4.640	5.00	5.01	8.78	8.78	8.78	8.77
60	4.720	5.00	5.01	8.78	8.78	8.78	8.77
61	4.800	5.00	5.01	8.78	8.78	8.78	8.77
62	4.880	5.00	5.01	8.78	8.78	8.78	8.77
63	4.960	5.00	5.01	8.78	8.78	8.78	8.77
64	5.040	5.00	5.01	8.78	8.78	8.78	8.77
65	5.120	5.00	5.01	8.78	8.78	8.78	8.77
66	5.200	5.00	5.01	8.78	8.78	8.78	8.77
67	5.280	5.00	5.01	8.78	8.78	8.78	8.77
68	5.360	5.00	5.01	8.78	8.78	8.78	8.77
69	5.440	5.00	5.01	8.78	8.78	8.78	8.77
70	5.520	5.00	5.01	8.78	8.78	8.78	8.77
71	5.600	5.00	5.01	8.78	8.78	8.78	8.77
72	5.680	5.00	5.01	8.78	8.78	8.78	8.77
73	5.760	5.00	5.01	8.78	8.78	8.78	8.77
74	5.840	5.00	5.01	8.78	8.78	8.78	8.77
75	5.920	5.00	5.01	8.78	8.78	8.78	8.77
76	6.000	5.00	5.01	8.78	8.78	8.78	8.77
77	6.080	5.00	5.01	8.78	8.78	8.78	8.77
78	6.160	5.00	5.01	8.78	8.78	8.78	8.77
79	6.240	5.00	5.01	8.78	8.78	8.78	8.77
80	6.320	5.00	5.01	8.78	8.78	8.78	8.77
81	6.400	5.00	5.01	8.78	8.78	8.78	8.77
82	6.480	5.00	5.01	8.78	8.78	8.78	8.77
83	6.560	5.00	5.01	8.78	8.78	8.78	8.77
84	6.640	5.00	5.01	8.78	8.78	8.78	8.77
85	6.720	5.00	5.01	8.78	8.78	8.78	8.77
86	6.800	5.00	5.01	8.78	8.78	8.78	8.77
87	6.880	5.00	5.01	8.78	8.78	8.78	8.77
88	6.960	5.00	5.01	8.78	8.78	8.78	8.77
89	7.040	5.00	5.01	8.78	8.78	8.78	8.77
90	7.120	5.00	5.01	8.78	8.78	8.78	8.77
91	7.200	5.00	5.01	8.78	8.78	8.78	8.77
92	7.280	5.00	5.01	8.78	8.78	8.78	8.77
93	7.360	5.00	5.01	8.78	8.78	8.78	8.77
94	7.440	5.00	5.01	8.78	8.78	8.78	8.77
95	7.520	5.00	5.01	8.78	8.78	8.78	8.77
96	7.600	5.00	5.01	8.78	8.78	8.78	8.77
97	7.680	5.00	5.01	8.78	8.78	8.78	8.77
98	7.760	5.00	5.01	8.78	8.78	8.78	8.77
99	7.840	5.00	5.01	8.78	8.78	8.78	8.77

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs'E3)	Station 2 Discharge QC(K,2) (cfs'E3)	Station 3 Discharge QC(K,3) (cfs'E3)	Station 4 Discharge QC(K,4) (cfs'E3)	Station 5 Discharge QC(K,5) (cfs'E3)	Station 6 Discharge QC(K,6) (cfs'E3)
100	7.920	5.00	5.01	8.78	8.78	8.78	8.77
101	8.000	5.00	5.01	8.78	8.78	8.78	8.77
102	8.080	5.00	5.01	8.78	8.78	8.78	8.77
103	8.160	5.00	5.01	8.78	8.78	8.78	8.77
104	8.240	5.00	5.01	8.78	8.78	8.78	8.77
105	8.320	5.00	5.01	8.78	8.78	8.78	8.77
106	8.400	5.00	5.01	8.78	8.78	8.78	8.77
107	8.480	5.00	5.01	8.78	8.78	8.78	8.77
108	8.560	5.00	5.01	8.78	8.78	8.78	8.77
109	8.640	5.00	5.01	8.78	8.78	8.78	8.77
110	8.720	5.00	5.01	8.78	8.78	8.78	8.77
111	8.800	5.00	5.01	8.78	8.78	8.78	8.77
112	8.880	5.00	5.01	8.78	8.78	8.78	8.77
113	8.960	5.00	5.01	8.78	8.78	8.78	8.77
114	9.040	5.00	5.01	8.78	8.78	8.78	8.77
115	9.120	5.00	5.01	8.78	8.78	8.78	8.77
116	9.200	5.00	5.01	8.78	8.78	8.78	8.77
117	9.280	5.00	5.01	8.78	8.78	8.78	8.77
118	9.360	5.00	5.01	8.78	8.78	8.78	8.77
119	9.440	5.00	5.01	8.78	8.78	8.78	8.77
120	9.520	5.00	5.01	8.78	8.78	8.78	8.77
121	9.600	5.00	5.01	8.78	8.78	8.78	8.77
122	9.680	5.00	5.01	8.78	8.78	8.78	8.77
123	9.760	5.00	5.01	8.78	8.78	8.78	8.77
124	9.840	5.00	5.01	8.78	8.78	8.78	8.77
125	9.920	5.00	5.01	8.78	8.78	8.78	8.77
126	10.000	5.00	5.01	8.78	8.78	8.78	8.77
127	10.080	5.00	5.01	8.78	8.78	8.78	8.77
128	10.160	5.00	5.01	8.78	8.78	8.78	8.77
129	10.240	5.00	5.01	8.78	8.78	8.78	8.77
130	10.320	5.00	5.01	8.78	8.78	8.78	8.77
131	10.400	5.00	5.01	8.78	8.78	8.78	8.77
132	10.480	5.00	5.01	8.78	8.78	8.78	8.77
133	10.560	5.00	5.01	8.78	8.78	8.78	8.77
134	10.640	5.00	5.01	8.78	8.78	8.78	8.77
135	10.720	5.00	5.01	8.78	8.78	8.78	8.77
136	10.800	5.00	5.01	8.78	8.78	8.78	8.77
137	10.880	5.00	5.01	8.78	8.78	8.78	8.77
138	10.960	5.00	5.01	8.78	8.78	8.78	8.77
139	11.040	5.00	5.01	8.78	8.78	8.78	8.77
140	11.120	5.00	5.01	8.78	8.78	8.78	8.77
141	11.200	5.00	5.01	8.78	8.78	8.78	8.77
142	11.280	5.00	5.01	8.78	8.78	8.78	8.77
143	11.360	5.00	5.01	8.78	8.78	8.78	8.77
144	11.440	5.00	5.01	8.78	8.78	8.78	8.77
145	11.520	5.00	5.01	8.78	8.78	8.78	8.77
146	11.600	5.00	5.01	8.78	8.78	8.78	8.77
147	11.680	5.00	5.01	8.78	8.78	8.78	8.77
148	11.760	5.00	5.01	8.78	8.78	8.78	8.77
149	11.840	5.00	5.01	8.78	8.78	8.78	8.77

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs'E3)	Station 2 Discharge QC(K,2) (cfs'E3)	Station 3 Discharge QC(K,3) (cfs'E3)	Station 4 Discharge QC(K,4) (cfs'E3)	Station 5 Discharge QC(K,5) (cfs'E3)	Station 6 Discharge QC(K,6) (cfs'E3)
150	11.920	5.00	5.01	8.78	8.78	8.78	8.77
151	12.000	5.00	5.01	8.78	8.78	8.78	8.77
152	12.080	5.00	5.01	8.78	8.78	8.78	8.77
153	12.160	5.00	5.01	8.78	8.78	8.78	8.77
154	12.240	5.00	5.01	8.78	8.78	8.78	8.77
155	12.320	5.00	5.01	8.78	8.78	8.78	8.77
156	12.400	5.00	5.01	8.78	8.78	8.78	8.77
157	12.480	5.00	5.01	8.78	8.78	8.78	8.77
158	12.560	5.00	5.01	8.78	8.78	8.78	8.77
159	12.640	5.00	5.01	8.78	8.78	8.78	8.77
160	12.720	5.00	5.01	8.78	8.78	8.78	8.77
161	12.800	5.00	5.01	8.78	8.78	8.78	8.77
162	12.880	5.00	5.01	8.78	8.78	8.78	8.77
163	12.960	5.00	5.01	8.78	8.78	8.78	8.77
164	13.040	5.00	5.01	8.78	8.78	8.78	8.77
165	13.120	5.00	5.01	8.78	8.78	8.78	8.77
166	13.200	5.00	5.01	8.78	8.78	8.78	8.77
167	13.280	5.00	5.01	8.78	8.78	8.78	8.77
168	13.360	5.00	5.01	8.78	8.78	8.78	8.77
169	13.440	5.00	5.01	8.78	8.78	8.78	8.77
170	13.520	5.00	5.01	8.78	8.78	8.78	8.77
171	13.600	5.00	5.01	8.78	8.78	8.78	8.77
172	13.680	5.00	5.01	8.78	8.78	8.78	8.77
173	13.760	5.00	5.01	8.78	8.78	8.78	8.77
174	13.840	5.00	5.01	8.78	8.78	8.78	8.77
175	13.920	5.00	5.01	8.78	8.78	8.78	8.77
176	14.000	5.00	5.01	8.78	8.78	8.78	8.77
177	14.080	5.00	5.01	8.78	8.78	8.78	8.77
178	14.160	5.00	5.01	8.78	8.78	8.78	8.77
179	14.240	5.00	5.01	8.78	8.78	8.78	8.77
180	14.320	5.00	5.01	8.78	8.78	8.78	8.77
181	14.400	5.00	5.01	8.78	8.78	8.78	8.77
182	14.480	5.00	5.01	8.78	8.78	8.78	8.77
183	14.560	5.00	5.01	8.78	8.78	8.78	8.77
184	14.640	5.00	5.01	8.78	8.78	8.78	8.77
185	14.720	5.00	5.01	8.78	8.78	8.78	8.77
186	14.800	5.00	5.01	8.78	8.78	8.78	8.77
187	14.880	5.00	5.01	8.78	8.78	8.78	8.77
188	14.960	5.00	5.01	8.78	8.78	8.78	8.77
189	15.040	5.00	5.01	8.78	8.78	8.78	8.77
190	15.120	5.00	5.01	8.78	8.78	8.78	8.77
191	15.200	5.00	5.01	8.78	8.78	8.78	8.77
192	15.280	5.00	5.01	8.78	8.78	8.78	8.77
193	15.360	5.00	5.01	8.78	8.78	8.78	8.77
194	15.440	5.00	5.01	8.78	8.78	8.78	8.77
195	15.520	5.00	5.01	8.78	8.78	8.78	8.77
196	15.600	5.00	5.01	8.78	8.78	8.78	8.77
197	15.680	5.00	5.01	8.78	8.78	8.78	8.77
198	15.760	5.00	5.01	8.78	8.78	8.78	8.77
199	15.840	5.00	5.01	8.78	8.78	8.78	8.77

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs'E3)	Station 2 Discharge QC(K,2) (cfs'E3)	Station 3 Discharge QC(K,3) (cfs'E3)	Station 4 Discharge QC(K,4) (cfs'E3)	Station 5 Discharge QC(K,5) (cfs'E3)	Station 6 Discharge QC(K,6) (cfs'E3)
200	15.920	5.00	5.01	8.78	8.78	8.78	8.77
201	16.000	5.00	5.01	8.78	8.78	8.78	8.77
202	16.080	5.00	5.01	8.78	8.78	8.78	8.77
203	16.160	5.00	5.01	8.78	8.78	8.78	8.77
204	16.240	5.00	5.01	8.78	8.78	8.78	8.77
205	16.320	5.00	5.01	8.78	8.78	8.78	8.77
206	16.400	5.00	5.01	8.78	8.78	8.78	8.77
207	16.480	5.00	5.01	8.78	8.78	8.78	8.77
208	16.560	5.00	5.01	8.78	8.78	8.78	8.77
209	16.640	5.00	5.01	8.78	8.78	8.78	8.77
210	16.720	5.00	5.01	8.78	8.78	8.78	8.77
211	16.800	5.00	5.01	8.78	8.78	8.78	8.77
212	16.880	5.00	5.01	8.78	8.78	8.78	8.77
213	16.960	5.00	5.01	8.78	8.78	8.78	8.77
214	17.040	5.00	5.01	8.78	8.78	8.78	8.77
215	17.120	5.00	5.01	8.78	8.78	8.78	8.77
216	17.200	5.00	5.01	8.78	8.78	8.78	8.77
217	17.280	5.00	5.01	8.78	8.78	8.78	8.77
218	17.360	5.00	5.01	8.78	8.78	8.78	8.77
219	17.440	5.00	5.01	8.78	8.78	8.78	8.77
220	17.520	5.00	5.01	8.78	8.78	8.78	8.77
221	17.600	5.00	5.01	8.78	8.78	8.78	8.77
222	17.680	5.00	5.01	8.78	8.78	8.78	8.77
223	17.760	5.00	5.01	8.78	8.78	8.78	8.77
224	17.840	5.00	5.01	8.78	8.78	8.78	8.77
225	17.920	5.00	5.01	8.78	8.78	8.78	8.77
226	18.000	5.00	5.01	8.78	8.78	8.78	8.77
227	18.080	5.00	5.01	8.78	8.78	8.78	8.77
228	18.160	5.00	5.01	8.78	8.78	8.78	8.77
229	18.240	5.00	5.01	8.78	8.78	8.78	8.77
230	18.320	5.00	5.01	8.78	8.78	8.78	8.77
231	18.400	5.00	5.01	8.78	8.78	8.78	8.77
232	18.480	5.00	5.01	8.78	8.78	8.78	8.77
233	18.560	5.00	5.01	8.78	8.78	8.78	8.77
234	18.640	5.00	5.01	8.78	8.78	8.78	8.77
235	18.720	5.00	5.01	8.78	8.78	8.78	8.77
236	18.800	5.00	5.01	8.78	8.78	8.78	8.77
237	18.880	5.00	5.01	8.78	8.78	8.78	8.77
238	18.960	5.00	5.01	8.78	8.78	8.78	8.77
239	19.040	5.00	5.01	8.78	8.78	8.78	8.77
240	19.120	5.00	5.01	8.78	8.78	8.78	8.77
241	19.200	5.00	5.01	8.78	8.78	8.78	8.77
242	19.280	5.00	5.01	8.78	8.78	8.78	8.77
243	19.360	5.00	5.01	8.78	8.78	8.78	8.77
244	19.440	5.00	5.01	8.78	8.78	8.78	8.77
245	19.520	5.00	5.01	8.78	8.78	8.78	8.77
246	19.600	5.00	5.01	8.78	8.78	8.78	8.77
247	19.680	5.00	5.01	8.78	8.78	8.78	8.77
248	19.760	5.00	5.01	8.78	8.78	8.78	8.77
249	19.840	5.00	5.01	8.78	8.78	8.78	8.77

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs'E3)	Station 2 Discharge QC(K,2) (cfs'E3)	Station 3 Discharge QC(K,3) (cfs'E3)	Station 4 Discharge QC(K,4) (cfs'E3)	Station 5 Discharge QC(K,5) (cfs'E3)	Station 6 Discharge QC(K,6) (cfs'E3)
250	19.920	5.00	5.01	8.78	8.78	8.78	8.77
251	20.000	5.00	5.01	8.78	8.78	8.78	8.77
252	20.080	5.00	5.01	8.78	8.78	8.78	8.77
253	20.160	5.00	5.01	8.78	8.78	8.78	8.77
254	20.240	5.00	5.01	8.78	8.78	8.78	8.77
255	20.320	5.00	5.01	8.78	8.78	8.78	8.77
256	20.400	5.00	5.01	8.78	8.78	8.78	8.77
257	20.480	5.00	5.01	8.78	8.78	8.78	8.77
258	20.560	5.00	5.01	8.78	8.78	8.78	8.77
259	20.640	5.00	5.01	8.78	8.78	8.78	8.77
260	20.720	5.00	5.01	8.78	8.78	8.78	8.77
261	20.800	5.00	5.01	8.78	8.78	8.78	8.77
262	20.880	5.00	5.01	8.78	8.78	8.78	8.77
263	20.960	5.00	5.01	8.78	8.78	8.78	8.77
264	21.040	5.00	5.01	8.78	8.78	8.78	8.77
265	21.120	5.00	5.01	8.78	8.78	8.78	8.77
266	21.200	5.00	5.01	8.78	8.78	8.78	8.77
267	21.280	5.00	5.01	8.78	8.78	8.78	8.77
268	21.360	5.00	5.01	8.78	8.78	8.78	8.77
269	21.440	5.00	5.01	8.78	8.78	8.78	8.77
270	21.520	5.00	5.01	8.78	8.78	8.78	8.77
271	21.600	5.00	5.01	8.78	8.78	8.78	8.77
272	21.680	5.00	5.01	8.78	8.78	8.78	8.77
273	21.760	5.00	5.01	8.78	8.78	8.78	8.77
274	21.840	5.00	5.01	8.78	8.78	8.78	8.77
275	21.920	5.00	5.01	8.78	8.78	8.78	8.77
276	22.000	5.00	5.01	8.78	8.78	8.78	8.77
277	22.080	5.00	5.01	8.78	8.78	8.78	8.77
278	22.160	5.00	5.01	8.78	8.78	8.78	8.77
279	22.240	5.00	5.01	8.78	8.78	8.78	8.77
280	22.320	5.00	5.01	8.78	8.78	8.78	8.77
281	22.400	5.00	5.01	8.78	8.78	8.78	8.77
282	22.480	5.00	5.01	8.78	8.78	8.78	8.77
283	22.560	5.00	5.01	8.78	8.78	8.78	8.77
284	22.640	5.00	5.01	8.78	8.78	8.78	8.77
285	22.720	5.00	5.01	8.78	8.78	8.78	8.78
286	22.800	5.00	5.01	8.78	8.78	8.78	8.78
287	22.880	5.00	5.01	8.78	8.78	8.78	8.78
288	22.960	5.00	5.01	8.78	8.78	8.78	8.78
289	23.040	5.00	5.01	8.78	8.78	8.78	8.78
290	23.120	5.00	5.01	8.78	8.78	8.78	8.78
291	23.200	5.00	5.01	8.78	8.78	8.78	8.77
292	23.280	5.00	5.01	8.78	8.78	8.78	8.77
293	23.360	5.00	5.01	8.78	8.78	8.78	8.77
294	23.440	5.00	5.01	8.78	8.78	8.78	8.77
295	23.520	5.00	5.01	8.78	8.78	8.78	8.77
296	23.600	5.00	5.01	8.78	8.78	8.78	8.77
297	23.680	5.00	5.01	8.78	8.78	8.78	8.77
298	23.760	5.00	5.01	8.78	8.78	8.78	8.77
299	23.840	5.00	5.01	8.78	8.78	8.78	8.77

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs'E3)	Station 2 Discharge QC(K,2) (cfs'E3)	Station 3 Discharge QC(K,3) (cfs'E3)	Station 4 Discharge QC(K,4) (cfs'E3)	Station 5 Discharge QC(K,5) (cfs'E3)	Station 6 Discharge QC(K,6) (cfs'E3)
300	23.920	5.00	5.01	8.78	8.78	8.78	8.77
301	24.000	5.00	5.01	8.78	8.78	8.78	8.77
302	24.080	5.00	5.01	8.78	8.78	8.78	8.77
303	24.160	5.00	5.01	8.78	8.78	8.78	8.77
304	24.240	5.00	5.01	8.78	8.78	8.78	8.77
305	24.320	5.00	5.01	8.78	8.78	8.78	8.77
306	24.400	5.00	5.01	8.78	8.78	8.78	8.77
307	24.480	5.00	5.01	8.78	8.78	8.78	8.78
308	24.560	5.00	5.01	8.78	8.78	8.78	8.78
309	24.640	5.00	5.01	8.78	8.78	8.78	8.78
310	24.720	5.00	5.01	8.78	8.78	8.78	8.78
311	24.800	5.00	5.01	8.78	8.78	8.78	8.78
312	24.880	5.00	5.01	8.78	8.78	8.78	8.78
313	24.960	5.00	5.01	8.78	8.78	8.78	8.78
314	25.040	5.00	5.01	8.78	8.78	8.78	8.78
315	25.120	5.00	5.01	8.78	8.78	8.78	8.78
316	25.200	5.00	5.01	8.78	8.78	8.78	8.78
317	25.280	5.00	5.01	8.78	8.78	8.78	8.77
318	25.360	5.00	5.01	8.78	8.78	8.78	8.78
319	25.440	5.00	5.01	8.78	8.78	8.78	8.78
320	25.520	5.00	5.01	8.78	8.78	8.78	8.78
321	25.600	5.00	5.01	8.78	8.78	8.78	8.78
322	25.680	5.00	5.01	8.78	8.78	8.78	8.78
323	25.760	5.00	5.01	8.78	8.78	8.78	8.77
324	25.840	5.00	5.01	8.78	8.78	8.78	8.78
325	25.920	5.00	5.01	8.78	8.78	8.78	8.78
326	26.000	5.00	5.01	8.78	8.78	8.78	8.78
327	26.080	5.00	5.01	8.78	8.78	8.78	8.78
328	26.160	5.00	5.01	8.78	8.78	8.78	8.78
329	26.240	5.00	5.01	8.78	8.78	8.78	8.79
330	26.320	5.00	5.01	8.78	8.78	8.78	8.79
331	26.400	5.00	5.01	8.78	8.78	8.78	8.79
332	26.480	5.00	5.01	8.78	8.78	8.78	8.77
333	26.560	5.00	5.01	8.78	8.78	8.78	8.78
334	26.640	5.00	5.01	8.78	8.78	8.78	8.78
335	26.720	5.00	5.01	8.78	8.78	8.78	8.78
336	26.800	5.00	5.01	8.78	8.78	8.78	8.78
337	26.880	5.00	5.01	8.78	8.78	8.78	8.78
338	26.960	5.00	5.01	8.78	8.78	8.78	8.77
339	27.040	5.00	5.01	8.78	8.78	8.78	8.78
340	27.120	5.00	5.01	8.78	8.78	8.78	8.78
341	27.200	5.00	5.01	8.78	8.78	8.78	8.78
342	27.280	5.00	5.01	8.78	8.78	8.78	8.78
343	27.360	5.00	5.01	8.78	8.78	8.78	8.78
344	27.440	5.00	5.01	8.78	8.78	8.78	8.78
345	27.520	5.00	5.01	8.78	8.78	8.78	8.78
346	27.600	5.00	5.01	8.78	8.78	8.78	8.77
347	27.680	5.00	5.01	8.78	8.78	8.78	8.78
348	27.760	5.00	5.01	8.78	8.78	8.78	8.78
349	27.840	5.00	5.01	8.78	8.78	8.78	8.78

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs'E3)	Station 2 Discharge QC(K,2) (cfs'E3)	Station 3 Discharge QC(K,3) (cfs'E3)	Station 4 Discharge QC(K,4) (cfs'E3)	Station 5 Discharge QC(K,5) (cfs'E3)	Station 6 Discharge QC(K,6) (cfs'E3)
350	27.920	5.00	5.01	8.78	8.78	8.78	8.78
351	28.000	5.00	5.01	8.78	8.78	8.78	8.78
352	28.080	5.00	5.01	8.78	8.78	8.78	8.78
353	28.160	5.00	5.01	8.78	8.78	8.78	8.78
354	28.240	5.00	5.01	8.78	8.78	8.78	8.77
355	28.320	5.00	5.01	8.78	8.78	8.78	8.78
356	28.400	5.00	5.01	8.78	8.78	8.78	8.78
357	28.480	5.00	5.01	8.78	8.78	8.78	8.78
358	28.560	5.00	5.01	8.78	8.78	8.78	8.78
359	28.640	5.00	5.01	8.78	8.78	8.78	8.79
360	28.720	5.00	5.01	8.78	8.78	8.78	8.79
361	28.800	5.00	5.01	8.78	8.78	8.78	8.79
362	28.880	5.00	5.01	8.78	8.78	8.78	8.79
363	28.960	5.00	5.01	8.78	8.78	8.78	8.79
364	29.040	5.00	5.01	8.78	8.78	8.78	8.80
365	29.120	5.00	5.01	8.78	8.78	8.78	8.79
366	29.200	5.00	5.01	8.78	8.78	8.78	8.80
367	29.280	5.00	5.01	8.78	8.78	8.78	8.79
368	29.360	5.00	5.01	8.78	8.78	8.78	8.80
369	29.440	5.00	5.01	8.78	8.78	8.78	8.77
370	29.520	5.00	5.01	8.78	8.78	8.78	8.78
371	29.600	5.00	5.01	8.78	8.78	8.78	8.78
372	29.680	5.00	5.01	8.78	8.78	8.78	8.78
373	29.760	5.00	5.01	8.78	8.78	8.78	8.78
374	29.840	5.00	5.01	8.78	8.78	8.78	8.79
375	29.920	5.00	5.01	8.78	8.78	8.78	8.79
376	30.000	5.00	5.01	8.78	8.78	8.78	8.79
377	30.080	5.00	5.01	8.78	8.78	8.78	8.80
378	30.160	5.00	5.01	8.78	8.78	8.78	8.79
379	30.240	5.00	5.01	8.78	8.78	8.78	8.79
380	30.320	5.00	5.01	8.78	8.78	8.78	8.79
381	30.400	5.00	5.01	8.78	8.78	8.78	8.79
382	30.480	5.00	5.01	8.78	8.78	8.78	8.79
383	30.560	5.00	5.01	8.78	8.78	8.78	8.79
384	30.640	5.00	5.01	8.78	8.78	8.78	8.79
385	30.720	5.00	5.01	8.78	8.78	8.78	8.80
386	30.800	5.00	5.01	8.78	8.78	8.78	8.80
387	30.880	5.00	5.01	8.78	8.78	8.78	8.80
388	30.960	5.00	5.01	8.78	8.78	8.78	8.80
389	31.040	5.00	5.01	8.78	8.78	8.78	8.80
390	31.120	5.00	5.01	8.78	8.78	8.78	8.80
391	31.200	5.00	5.01	8.78	8.78	8.78	8.77
392	31.280	5.00	5.01	8.78	8.78	8.78	8.78
393	31.360	5.00	5.01	8.78	8.78	8.78	8.78
394	31.440	5.00	5.01	8.78	8.78	8.78	8.78
395	31.520	5.00	5.01	8.78	8.78	8.78	8.78
396	31.600	5.00	5.01	8.78	8.78	8.78	8.78
397	31.680	5.00	5.01	8.78	8.78	8.78	8.78
398	31.760	5.00	5.01	8.78	8.78	8.78	8.77
399	31.840	5.00	5.01	8.78	8.78	8.78	8.78

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs'E3)	Station 2 Discharge QC(K,2) (cfs'E3)	Station 3 Discharge QC(K,3) (cfs'E3)	Station 4 Discharge QC(K,4) (cfs'E3)	Station 5 Discharge QC(K,5) (cfs'E3)	Station 6 Discharge QC(K,6) (cfs'E3)
400	31.920	5.00	5.01	8.78	8.78	8.78	8.78
401	32.000	5.00	5.01	8.78	8.78	8.78	8.78
402	32.080	5.00	5.01	8.78	8.78	8.78	8.78
403	32.160	5.00	5.01	8.78	8.78	8.78	8.79
404	32.240	5.00	5.01	8.78	8.78	8.78	8.79
405	32.320	5.00	5.01	8.78	8.78	8.78	8.79
406	32.400	5.00	5.01	8.78	8.78	8.78	8.79
407	32.480	5.00	5.01	8.78	8.78	8.78	8.79
408	32.560	5.00	5.01	8.78	8.78	8.78	8.79
409	32.640	5.00	5.01	8.78	8.78	8.78	8.77
410	32.720	5.00	5.01	8.78	8.78	8.78	8.78
411	32.800	5.00	5.01	8.78	8.78	8.78	8.78
412	32.880	5.00	5.01	8.78	8.78	8.78	8.78
413	32.960	5.00	5.01	8.78	8.78	8.78	8.78
414	33.040	5.00	5.01	8.78	8.78	8.78	8.79
415	33.120	5.00	5.01	8.78	8.78	8.78	8.78
416	33.200	5.00	5.01	8.78	8.78	8.78	8.79
417	33.280	5.00	5.01	8.78	8.78	8.78	8.79
418	33.360	5.00	5.01	8.78	8.78	8.78	8.79
419	33.440	5.00	5.01	8.78	8.78	8.78	8.79
420	33.520	5.00	5.01	8.78	8.78	8.78	8.79
421	33.600	5.00	5.01	8.78	8.78	8.78	8.79
422	33.680	5.00	5.01	8.78	8.78	8.78	8.77
423	33.760	5.00	5.01	8.78	8.78	8.78	8.78
424	33.840	5.00	5.01	8.78	8.78	8.78	8.78
425	33.920	5.00	5.01	8.78	8.78	8.78	8.78
426	34.000	5.00	5.01	8.78	8.78	8.78	8.78
427	34.080	5.00	5.01	8.78	8.78	8.78	8.79
428	34.160	5.00	5.01	8.78	8.78	8.78	8.79
429	34.240	5.00	5.01	8.78	8.78	8.78	8.79
430	34.320	5.00	5.01	8.78	8.78	8.78	8.79
431	34.400	5.00	5.01	8.78	8.78	8.78	8.79
432	34.480	5.00	5.01	8.78	8.78	8.78	8.79
433	34.560	5.00	5.01	8.78	8.78	8.78	8.77
434	34.640	5.00	5.01	8.78	8.78	8.78	8.78
435	34.720	5.00	5.01	8.78	8.78	8.78	8.78
436	34.800	5.00	5.01	8.78	8.78	8.78	8.78
437	34.880	5.00	5.01	8.78	8.78	8.78	8.79
438	34.960	5.00	5.01	8.78	8.78	8.78	8.79
439	35.040	5.00	5.01	8.78	8.78	8.78	8.79
440	35.120	5.00	5.01	8.78	8.78	8.78	8.79
441	35.200	5.00	5.01	8.78	8.78	8.78	8.79
442	35.280	5.00	5.01	8.78	8.78	8.78	8.79
443	35.360	5.00	5.01	8.78	8.78	8.78	8.79
444	35.440	5.00	5.01	8.78	8.78	8.78	8.79
445	35.520	5.00	5.01	8.78	8.78	8.78	8.79
446	35.600	5.00	5.01	8.78	8.78	8.78	8.79
447	35.680	5.00	5.01	8.78	8.78	8.78	8.80
448	35.760	5.00	5.01	8.78	8.78	8.78	8.79
449	35.840	5.00	5.01	8.78	8.78	8.78	8.80

Time Step Couht K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs'E3)	Station 2 Discharge QC(K,2) (cfs'E3)	Station 3 Discharge QC(K,3) (cfs'E3)	Station 4 Discharge QC(K,4) (cfs'E3)	Station 5 Discharge QC(K,5) (cfs'E3)	Station 6 Discharge QC(K,6) (cfs'E3)
450	35.920	5.00	5.01	8.78	8.78	8.78	8.80
451	36.000	5.00	5.01	8.78	8.78	8.78	8.80
452	36.080	5.00	5.01	8.78	8.78	8.78	8.80
453	36.160	5.00	5.01	8.78	8.78	8.78	8.80
454	36.240	5.00	5.01	8.78	8.78	8.78	8.77
455	36.320	5.00	5.01	8.78	8.78	8.78	8.78
456	36.400	5.00	5.01	8.78	8.78	8.78	8.78
457	36.480	5.00	5.01	8.78	8.78	8.78	8.78
458	36.560	5.00	5.01	8.78	8.78	8.78	8.78
459	36.640	5.00	5.01	8.78	8.78	8.78	8.78
460	36.720	5.00	5.01	8.78	8.78	8.78	8.79
461	36.800	5.00	5.01	8.78	8.78	8.78	8.79
462	36.880	5.00	5.01	8.78	8.78	8.78	8.79
463	36.960	5.00	5.01	8.78	8.78	8.78	8.79
464	37.040	5.00	5.01	8.78	8.78	8.78	8.79
465	37.120	5.00	5.01	8.78	8.78	8.78	8.79
466	37.200	5.00	5.01	8.78	8.78	8.78	8.79
467	37.280	5.00	5.01	8.78	8.78	8.78	8.79
468	37.360	5.00	5.01	8.78	8.78	8.78	8.79
469	37.440	5.00	5.01	8.78	8.78	8.78	8.79
470	37.520	5.00	5.01	8.78	8.78	8.78	8.79
471	37.600	5.00	5.01	8.78	8.78	8.78	8.79
472	37.680	5.00	5.01	8.78	8.78	8.78	8.80
473	37.760	5.00	5.01	8.78	8.78	8.78	8.80
474	37.840	5.00	5.01	8.78	8.78	8.78	8.80
475	37.920	5.00	5.01	8.78	8.78	8.78	8.80
476	38.000	5.00	5.01	8.78	8.78	8.78	8.80
477	38.080	5.00	5.01	8.78	8.78	8.78	8.80
478	38.160	5.00	5.01	8.78	8.78	8.78	8.80
479	38.240	5.00	5.01	8.78	8.78	8.78	8.77
480	38.320	5.00	5.01	8.78	8.78	8.78	8.80
481	38.400	5.00	5.01	8.78	8.78	8.78	8.77
482	38.480	5.00	5.01	8.78	8.78	8.78	8.78
483	38.560	5.00	5.01	8.78	8.78	8.78	8.78
484	38.640	5.00	5.01	8.78	8.78	8.78	8.78
485	38.720	5.00	5.01	8.78	8.78	8.78	8.78
486	38.800	5.00	5.01	8.78	8.78	8.78	8.79
487	38.880	5.00	5.01	8.78	8.78	8.78	8.79
488	38.960	5.00	5.01	8.78	8.78	8.78	8.79
489	39.040	5.00	5.01	8.78	8.78	8.78	8.79
490	39.120	5.00	5.01	8.78	8.78	8.78	8.79
491	39.200	5.00	5.01	8.78	8.78	8.78	8.79
492	39.280	5.00	5.01	8.78	8.78	8.78	8.79
493	39.360	5.00	5.01	8.78	8.78	8.78	8.79
494	39.440	5.00	5.01	8.78	8.78	8.78	8.79
495	39.520	5.00	5.01	8.78	8.78	8.78	8.79
496	39.600	5.00	5.01	8.78	8.78	8.78	8.79
497	39.680	5.00	5.01	8.78	8.78	8.78	8.79
498	39.760	5.00	5.01	8.78	8.78	8.78	8.79
499	39.840	5.00	5.01	8.78	8.78	8.78	8.79

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs'E3)	Station 2 Discharge QC(K,2) (cfs'E3)	Station 3 Discharge QC(K,3) (cfs'E3)	Station 4 Discharge QC(K,4) (cfs'E3)	Station 5 Discharge QC(K,5) (cfs'E3)	Station 6 Discharge QC(K,6) (cfs'E3)
500	39.920	5.00	5.01	8.78	8.78	8.78	8.80
501	40.000	5.00	5.01	8.78	8.78	8.78	8.80
502	40.080	5.00	5.01	8.78	8.78	8.78	8.80
503	40.160	5.00	5.01	8.78	8.78	8.78	8.80
504	40.240	5.00	5.01	8.78	8.78	8.78	8.80
505	40.320	5.00	5.01	8.78	8.78	8.78	8.80
506	40.400	5.00	5.01	8.78	8.78	8.78	8.80
507	40.480	5.00	5.01	8.78	8.78	8.78	8.80
508	40.560	5.00	5.01	8.78	8.78	8.78	8.80
509	40.640	5.00	5.01	8.78	8.78	8.78	8.80
510	40.720	5.00	5.01	8.78	8.78	8.78	8.80
511	40.800	5.00	5.01	8.78	8.78	8.78	8.80
512	40.880	5.00	5.01	8.78	8.78	8.78	8.80
513	40.960	5.00	5.01	8.78	8.78	8.78	8.80
514	41.040	5.00	5.01	8.78	8.78	8.78	8.80
515	41.120	5.00	5.01	8.78	8.78	8.78	8.80
516	41.200	5.00	5.00	8.78	8.78	8.78	8.77
517	41.280	5.00	5.00	8.78	8.78	8.78	8.78
518	41.360	5.00	5.00	8.78	8.78	8.78	8.78
519	41.440	5.00	5.00	8.78	8.78	8.78	8.78
520	41.520	5.00	5.00	8.78	8.78	8.78	8.78
521	41.600	5.00	5.00	8.78	8.78	8.78	8.78
522	41.680	5.00	5.00	8.78	8.78	8.78	8.79
523	41.760	5.00	5.00	8.78	8.78	8.78	8.79
524	41.840	5.00	5.00	8.79	8.78	8.78	8.79
525	41.920	5.00	5.00	8.79	8.78	8.78	8.79
526	42.000	5.01	5.00	8.80	8.78	8.78	8.79
527	42.080	9.07	5.00	8.81	8.78	8.78	8.79
528	42.160	13.12	5.00	8.83	8.78	8.78	8.79
529	42.240	17.18	5.00	8.85	8.78	8.78	8.79
530	42.320	21.24	5.00	8.87	8.78	8.78	8.79
531	42.400	25.30	5.00	8.89	8.78	8.78	8.79
532	42.480	29.35	5.12	8.92	8.78	8.78	8.79
533	42.560	33.41	5.84	8.94	8.78	8.78	8.79
534	42.640	37.47	7.66	8.96	8.78	8.78	8.79
535	42.720	41.53	11.37	9.01	8.78	8.78	8.79
536	42.800	45.58	16.59	9.12	8.78	8.78	8.79
537	42.880	49.64	22.57	9.30	8.79	8.78	8.80
538	42.960	53.70	28.38	9.58	8.79	8.78	8.80
539	43.040	57.75	33.99	9.95	8.79	8.78	8.80
540	43.120	61.81	39.26	10.48	8.80	8.78	8.80
541	43.200	65.87	44.25	11.19	8.81	8.78	8.80
542	43.280	69.93	49.01	11.93	8.82	8.78	8.80
543	43.360	73.98	53.64	13.44	8.83	8.78	8.80
544	43.440	88.85	57.93	18.28	8.85	8.78	8.80
545	43.520	114.42	62.42	27.65	8.87	8.78	8.80
546	43.600	139.98	68.47	38.73	8.89	8.78	8.80
547	43.680	165.54	76.99	49.06	8.93	8.78	8.80
548	43.760	191.10	81.57	58.28	8.99	8.78	8.80
549	43.840	216.66	106.40	66.94	9.08	8.78	8.80

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs'E3)	Station 2 Discharge QC(K,2) (cfs'E3)	Station 3 Discharge QC(K,3) (cfs'E3)	Station 4 Discharge QC(K,4) (cfs'E3)	Station 5 Discharge QC(K,5) (cfs'E3)	Station 6 Discharge QC(K,6) (cfs'E3)
550	43.920	242.22	129.02	75.60	9.24	8.78	8.80
551	44.000	267.78	156.78	84.50	9.56	8.78	8.80
552	44.080	273.80	187.12	95.29	10.32	8.78	8.80
553	44.160	268.25	214.15	112.39	12.45	8.78	8.80
554	44.240	262.70	236.19	141.20	18.14	8.78	8.80
555	44.320	257.15	250.52	180.97	30.12	8.78	8.80
556	44.400	251.60	257.58	222.31	49.55	8.78	8.80
557	44.480	246.05	259.06	256.22	76.87	8.78	8.80
558	44.560	240.50	257.34	279.82	108.22	8.78	8.80
559	44.640	234.95	253.75	294.09	146.57	8.78	8.80
560	44.720	229.40	249.47	301.15	192.11	8.78	8.80
561	44.800	223.86	245.23	302.97	232.77	8.78	8.80
562	44.880	218.31	240.85	301.35	262.51	8.78	8.80
563	44.960	212.76	235.33	297.70	281.37	8.79	8.80
564	45.040	207.33	229.05	292.92	291.85	8.79	8.80
565	45.120	202.02	223.36	287.48	296.38	8.79	8.80
566	45.200	196.72	218.59	281.52	296.93	8.79	8.80
567	45.280	191.41	213.77	275.21	294.89	8.79	8.80
568	45.320	188.76	210.96	272.00	293.23	8.79	8.80
569	45.360	186.11	207.89	268.80	291.24	8.79	8.80
570	45.440	180.80	201.92	262.62	286.53	8.79	8.80
571	45.520	175.50	196.94	256.57	281.17	8.80	8.80
572	45.560	172.84	194.88	253.57	278.34	8.81	8.80
573	45.600	170.19	192.83	250.50	275.45	8.83	8.80
574	45.610	169.53	192.27	249.74	274.71	8.83	8.80
575	45.680	164.89	187.36	244.33	269.56	8.96	8.80
576	45.760	159.58	181.29	238.29	263.64	9.36	8.80
577	45.840	154.28	176.15	232.44	257.74	10.08	8.80
578	45.920	148.97	171.82	226.71	251.85	10.99	8.80
579	46.000	143.67	166.85	220.96	246.01	12.35	8.80
580	46.080	138.36	160.84	215.19	240.22	17.69	8.80
581	46.160	133.05	155.62	209.46	234.53	36.12	8.80
582	46.240	127.75	151.47	203.75	228.90	84.55	8.80
583	46.280	125.10	149.16	200.90	226.12	155.61	8.80
584	46.320	122.44	146.24	198.03	223.33	196.91	8.80
585	46.400	117.14	140.09	192.27	217.80	233.62	8.80
586	46.440	114.49	137.70	189.41	215.04	243.82	8.80
587	46.480	111.83	135.78	186.59	212.29	247.13	8.80
588	46.520	109.18	133.84	183.79	209.55	246.54	8.80
589	46.560	106.53	131.65	181.00	206.80	247.63	8.80
590	46.600	103.87	128.80	178.21	204.05	248.21	8.80
591	46.640	101.22	125.61	175.42	201.32	249.11	8.80
592	46.720	95.92	119.80	169.90	195.86	251.02	8.80
593	46.800	90.61	115.98	164.49	190.45	252.59	8.80
594	46.880	85.31	111.16	159.16	185.08	253.85	8.80
595	46.960	82.62	104.80	153.81	179.77	254.46	8.80
596	47.040	80.79	99.08	148.40	174.51	254.53	8.80
597	47.120	78.96	94.49	143.05	169.32	253.99	8.80
598	47.200	77.14	90.45	137.83	164.19	252.95	8.81
599	47.280	75.31	86.67	132.70	159.11	251.31	8.82

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs'E3)	Station 2 Discharge QC(K,2) (cfs'E3)	Station 3 Discharge QC(K,3) (cfs'E3)	Station 4 Discharge QC(K,4) (cfs'E3)	Station 5 Discharge QC(K,5) (cfs'E3)	Station 6 Discharge QC(K,6) (cfs'E3)
600	47.360	73.48	83.41	127.65	154.05	249.04	8.88
601	47.440	71.65	80.97	122.81	149.04	246.12	9.07
602	47.520	69.82	80.23	118.26	144.09	242.70	9.64
603	47.600	67.99	79.20	114.04	139.23	238.82	11.05
604	47.680	66.16	78.77	110.17	134.50	234.21	14.02
605	47.760	64.34	78.87	106.74	129.88	224.10	12.98
606	47.840	62.51	73.29	103.84	125.45	213.12	20.60
607	47.920	60.68	70.17	101.57	121.21	206.11	41.13
608	48.000	58.85	68.05	99.78	117.22	200.15	64.10
609	48.080	57.02	65.98	98.12	113.56	194.91	92.50
610	48.160	55.19	63.97	96.10	110.23	190.06	122.40
611	48.240	53.36	62.13	93.47	107.21	185.50	150.96
612	48.320	51.54	60.44	90.37	104.55	181.10	176.16
613	48.400	49.71	58.61	87.09	102.20	176.77	197.17
614	48.480	47.88	56.86	83.87	100.05	172.46	213.51
615	48.560	46.05	55.10	80.80	97.93	168.18	225.54
616	48.640	44.22	53.36	77.94	95.70	163.94	233.87
617	48.720	42.39	51.60	75.33	93.27	159.75	239.39
618	48.800	40.56	49.86	72.95	90.66	155.63	242.44
619	48.880	38.73	48.14	70.75	87.92	151.60	242.96
620	48.960	36.91	46.40	68.67	85.13	147.69	241.99
621	49.040	35.73	44.68	66.65	82.40	143.92	239.70
622	49.120	35.20	42.93	64.65	79.76	140.27	236.45
623	49.200	34.66	41.25	62.66	77.26	136.67	232.43
624	49.280	34.13	39.64	60.65	74.91	133.07	227.86
625	49.360	33.60	38.21	58.63	72.69	129.46	222.93
626	49.440	33.06	36.99	56.67	70.60	125.90	217.84
627	49.520	32.53	36.01	54.79	68.60	122.49	212.75
628	49.600	32.00	35.24	53.02	66.66	119.30	207.75
629	49.680	31.46	34.60	51.34	64.78	116.38	202.91
630	49.760	30.93	34.03	49.78	62.90	113.73	198.23
631	49.840	30.40	33.48	48.30	61.07	111.36	193.72
632	49.920	29.86	32.96	46.92	59.35	109.21	189.36
633	50.000	29.33	32.44	45.67	57.63	107.22	185.14
634	50.080	28.80	31.93	44.57	56.04	105.31	181.02
635	50.160	28.26	31.42	43.59	54.64	103.38	177.01
636	50.240	27.73	30.91	42.70	53.33	101.40	173.08
637	50.320	27.20	30.40	41.86	52.08	99.37	169.22
638	50.400	26.66	29.89	41.05	50.82	97.35	165.46
639	50.480	26.13	29.37	40.28	49.55	95.35	161.77
640	50.560	25.60	28.85	39.55	48.33	93.38	158.11
641	50.640	25.06	28.34	38.86	47.16	91.43	154.57
642	50.720	24.53	27.83	38.19	46.06	89.40	151.12
643	50.800	24.00	27.31	37.52	45.04	87.21	147.67
644	50.880	23.46	26.79	36.86	44.09	84.79	144.23
645	50.960	22.93	26.28	36.21	43.19	82.15	140.82
646	51.040	22.40	25.77	35.56	42.36	79.31	137.47
647	51.120	21.94	25.25	34.90	41.57	76.41	134.17
648	51.200	21.71	24.73	34.25	40.82	73.55	130.96
649	51.280	21.48	24.22	33.59	40.10	70.86	127.95

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs'E3)	Station 2 Discharge QC(K,2) (cfs'E3)	Station 3 Discharge QC(K,3) (cfs'E3)	Station 4 Discharge QC(K,4) (cfs'E3)	Station 5 Discharge QC(K,5) (cfs'E3)	Station 6 Discharge QC(K,6) (cfs'E3)
650	51.360	21.26	23.72	32.94	39.41	68.41	125.09
651	51.440	21.03	23.23	32.29	38.74	66.23	122.24
652	51.520	20.80	22.77	31.65	38.09	64.31	119.55
653	51.600	20.57	22.36	31.02	37.45	62.61	116.95
654	51.680	20.34	22.00	30.42	36.82	61.07	114.48
655	51.760	20.11	21.70	29.83	36.19	59.67	112.10
656	51.840	19.88	21.44	29.28	35.58	58.36	109.79
657	51.920	19.66	21.19	28.77	34.96	57.13	107.41
658	52.000	19.43	20.96	28.31	34.34	55.96	104.94
659	52.080	19.20	20.73	27.88	33.73	54.84	102.51
660	52.160	18.97	20.51	27.47	33.12	53.76	100.21
661	52.240	18.74	20.29	27.06	32.52	52.73	97.83
662	52.320	18.51	20.06	26.68	31.93	51.73	95.29
663	52.400	18.28	19.84	26.32	31.35	50.76	92.82
664	52.480	18.06	19.61	25.98	30.79	49.83	90.45
665	52.560	17.81	19.39	25.67	30.25	48.94	88.14
666	52.640	17.55	19.16	25.38	29.73	48.07	85.95
667	52.720	17.29	18.93	25.11	29.24	47.22	83.80
668	52.800	17.04	18.71	24.85	28.77	46.41	81.70
669	52.880	16.78	18.48	24.60	28.32	45.66	79.69
670	52.960	16.53	18.25	24.35	27.90	44.92	77.73
671	53.040	16.27	18.02	24.11	27.50	44.19	75.62
672	53.120	16.01	17.78	23.87	27.11	43.48	73.62
673	53.200	15.76	17.54	23.63	26.75	42.83	72.15
674	53.280	15.50	17.30	23.41	26.41	42.22	70.27
675	53.360	15.25	17.06	23.18	26.08	41.60	68.66
676	53.440	14.99	16.81	22.96	25.78	41.00	66.99
677	53.520	14.73	16.57	22.74	25.49	40.40	65.39
678	53.600	14.48	16.32	22.51	25.21	39.82	63.80
679	53.680	14.22	16.07	22.30	24.95	39.32	62.40
680	53.760	13.97	15.82	22.07	24.70	38.83	61.11
681	53.840	13.71	15.57	21.85	24.45	38.33	59.94
682	53.920	13.45	15.32	21.62	24.21	37.99	58.86
683	54.000	13.20	15.08	21.40	23.98	37.55	57.85
684	54.080	12.94	14.83	21.17	23.75	37.14	56.92
685	54.160	12.69	14.58	20.94	23.52	36.72	56.07
686	54.240	12.43	14.33	20.71	23.30	36.31	55.24
687	54.320	12.17	14.08	20.48	23.08	35.91	54.34
688	54.400	11.92	13.83	20.25	22.86	35.53	53.31
689	54.480	11.66	13.59	20.01	22.64	35.17	52.14
690	54.560	11.41	13.34	19.78	22.43	34.85	50.92
691	54.640	11.15	13.09	19.55	22.21	34.57	49.72
692	54.720	10.89	12.84	19.32	21.99	34.33	48.60
693	54.800	10.64	12.59	19.10	21.77	34.20	47.59
694	54.880	10.38	12.35	18.87	21.56	34.20	46.67
695	54.960	10.13	12.10	18.66	21.34	34.39	45.84
696	55.040	9.99	11.86	18.43	21.11	34.85	45.07
697	55.120	9.97	11.61	18.20	20.89	34.87	44.36
698	55.201	9.95	11.37	17.98	20.67	33.30	43.70
699	55.281	9.93	11.12	17.75	20.45	31.92	43.05

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs'E3)	Station 2 Discharge QC(K,2) (cfs'E3)	Station 3 Discharge QC(K,3) (cfs'E3)	Station 4 Discharge QC(K,4) (cfs'E3)	Station 5 Discharge QC(K,5) (cfs'E3)	Station 6 Discharge QC(K,6) (cfs'E3)
700	55.361	9.91	10.88	17.52	20.23	30.66	42.46
701	55.441	9.89	10.66	17.30	20.01	29.72	41.91
702	55.521	9.87	10.45	17.07	19.79	28.86	41.40
703	55.601	9.85	10.28	16.85	19.57	28.24	40.94
704	55.681	9.83	10.14	16.63	19.35	27.67	40.51
705	55.761	9.81	10.05	16.41	19.14	27.24	40.09
706	55.841	9.79	9.99	16.19	18.92	26.84	39.74
707	55.921	9.77	9.95	15.97	18.70	26.50	39.40
708	56.001	9.75	9.92	15.76	18.49	26.18	39.10
709	56.081	9.73	9.90	15.55	18.27	25.89	38.83
710	56.161	9.71	9.87	15.33	18.06	25.61	38.57
711	56.241	9.69	9.85	15.11	17.84	25.35	38.33
712	56.321	9.67	9.83	14.90	17.62	25.10	38.11
713	56.401	9.65	9.81	14.71	17.41	24.86	37.91
714	56.481	9.63	9.79	14.54	17.19	24.63	37.74
715	56.561	9.61	9.77	14.36	16.98	24.40	37.56
716	56.641	9.59	9.75	14.20	16.77	24.18	37.40
717	56.721	9.57	9.73	14.06	16.56	23.97	37.25
718	56.801	9.55	9.71	13.95	16.35	23.76	37.11
719	56.881	9.53	9.69	13.86	16.14	23.55	36.98
720	56.961	9.51	9.67	13.79	15.94	23.35	36.84
721	57.041	9.49	9.65	13.74	15.73	23.15	36.70
722	57.121	9.47	9.63	13.69	15.53	22.95	36.55
723	57.201	9.45	9.61	13.66	15.33	22.75	36.37
724	57.281	9.43	9.59	13.63	15.14	22.55	36.13
725	57.361	9.41	9.57	13.61	14.95	22.36	35.88
726	57.441	9.39	9.55	13.59	14.77	22.17	35.56
727	57.521	9.37	9.53	13.57	14.61	21.98	35.22
728	57.601	9.35	9.51	13.54	14.45	21.79	34.84
729	57.681	9.33	9.49	13.52	14.31	21.60	34.40
730	57.761	9.31	9.47	13.51	14.18	21.41	33.94
731	57.841	9.29	9.45	13.49	14.07	21.22	33.43
732	57.921	9.27	9.43	13.47	13.97	21.03	32.89
733	58.001	9.25	9.41	13.45	13.89	20.84	32.36
734	58.081	9.23	9.39	13.43	13.82	20.65	31.79
735	58.161	9.21	9.37	13.41	13.76	20.46	31.23
736	58.241	9.19	9.35	13.39	13.72	20.28	30.65
737	58.321	9.17	9.33	13.37	13.68	20.09	30.09
738	58.401	9.15	9.31	13.35	13.64	19.90	29.53
739	58.481	9.13	9.29	13.33	13.61	19.72	28.99
740	58.561	9.11	9.27	13.31	13.59	19.54	28.45
741	58.641	9.09	9.25	13.28	13.56	19.35	27.93
742	58.721	9.07	9.23	13.27	13.54	19.17	27.41
743	58.801	9.05	9.21	13.25	13.52	18.99	26.90
744	58.881	9.03	9.20	13.23	13.50	18.81	26.39
745	58.961	9.01	9.17	13.21	13.48	18.62	25.86
746	59.041	8.99	9.16	13.19	13.46	18.44	25.37
747	59.121	8.97	9.14	13.17	13.44	18.27	24.86
748	59.201	8.95	9.12	13.15	13.42	18.09	24.38
749	59.281	8.93	9.10	13.13	13.40	17.91	23.89

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs'E3)	Station 2 Discharge QC(K,2) (cfs'E3)	Station 3 Discharge QC(K,3) (cfs'E3)	Station 4 Discharge QC(K,4) (cfs'E3)	Station 5 Discharge QC(K,5) (cfs'E3)	Station 6 Discharge QC(K,6) (cfs'E3)
750	59.361	8.91	9.08	13.11	13.38	17.74	23.43
751	59.441	8.89	9.06	13.09	13.36	17.57	23.00
752	59.521	8.87	9.04	13.07	13.34	17.40	22.59
753	59.601	8.85	9.02	13.05	13.32	17.23	22.24
754	59.681	8.83	9.00	13.03	13.30	17.06	21.91
755	59.761	8.81	8.98	13.01	13.28	16.89	21.63
756	59.841	8.79	8.96	12.99	13.26	16.73	21.41
757	59.921	8.77	8.94	12.97	13.24	16.57	21.18
758	60.001	8.75	8.92	12.95	13.22	16.41	21.00
759	60.081	8.73	8.90	12.93	13.20	16.25	20.86
760	60.161	8.71	8.88	12.91	13.18	16.10	20.71
761	60.241	8.69	8.86	12.89	13.16	15.96	20.58
762	60.321	8.67	8.84	12.87	13.14	15.81	20.47
763	60.401	8.65	8.82	12.85	13.12	15.68	20.38
764	60.481	8.63	8.80	12.83	13.10	15.54	20.26
765	60.561	8.61	8.78	12.81	13.08	15.41	20.18
766	60.641	8.59	8.76	12.79	13.06	15.29	20.04
767	60.721	8.57	8.74	12.77	13.04	15.17	19.96
768	60.801	8.55	8.72	12.75	13.02	15.06	19.82
769	60.881	8.53	8.70	12.73	13.00	14.96	19.73
770	60.961	8.51	8.68	12.71	12.98	14.86	19.58
771	61.041	8.49	8.66	12.69	12.96	14.77	19.48
772	61.121	8.47	8.64	12.67	12.94	14.68	19.33
773	61.201	8.45	8.62	12.65	12.92	14.60	19.18
774	61.281	8.43	8.60	12.63	12.90	14.53	19.05
775	61.361	8.41	8.58	12.61	12.88	14.46	18.89
776	61.441	8.39	8.56	12.59	12.86	14.39	18.75
777	61.521	8.37	8.54	12.58	12.84	14.34	18.55
778	61.601	8.35	8.52	12.56	12.82	14.28	18.39
779	61.681	8.33	8.50	12.53	12.80	14.24	18.20
780	61.761	8.31	8.48	12.51	12.79	14.19	18.04
781	61.841	8.29	8.46	12.49	12.77	14.15	17.88
782	61.921	8.27	8.44	12.48	12.75	14.12	17.69
783	62.001	8.25	8.42	12.45	12.73	14.09	17.56
784	62.081	8.23	8.40	12.44	12.71	14.06	17.38
785	62.161	8.21	8.38	12.42	12.69	14.04	17.22
786	62.241	8.19	8.36	12.39	12.67	14.01	17.07
787	62.321	8.17	8.34	12.38	12.65	14.00	16.91
788	62.401	8.15	8.32	12.35	12.63	13.98	16.75
789	62.481	8.13	8.30	12.34	12.61	13.97	16.62
790	62.561	8.11	8.28	12.31	12.59	13.95	16.49
791	62.641	8.09	8.26	12.30	12.57	13.94	16.36
792	62.721	8.07	8.24	12.28	12.55	13.93	16.26
793	62.801	8.05	8.22	12.26	12.53	13.93	16.09
794	62.881	8.03	8.20	12.24	12.51	13.92	16.00
795	62.961	8.01	8.18	12.22	12.49	13.92	15.86
796	63.041	7.99	8.16	12.20	12.47	13.91	15.79
797	63.121	7.97	8.14	12.18	12.45	13.91	15.64
798	63.201	7.95	8.12	12.16	12.43	13.91	15.53
799	63.281	7.93	8.10	12.14	12.41	13.91	15.42

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs'E3)	Station 2 Discharge QC(K,2) (cfs'E3)	Station 3 Discharge QC(K,3) (cfs'E3)	Station 4 Discharge QC(K,4) (cfs'E3)	Station 5 Discharge QC(K,5) (cfs'E3)	Station 6 Discharge QC(K,6) (cfs'E3)
800	63.361	7.91	8.08	12.12	12.39	13.91	15.32
801	63.441	7.89	8.06	12.10	12.37	13.91	15.22
802	63.521	7.87	8.04	12.08	12.35	13.91	15.12
803	63.601	7.85	8.02	12.06	12.34	13.91	15.03
804	63.681	7.83	8.00	12.04	12.32	13.90	14.97
805	63.761	7.81	7.98	12.02	12.30	13.91	14.90
806	63.841	7.79	7.96	12.00	12.28	13.90	14.83
807	63.921	7.77	7.94	11.98	12.26	13.90	14.76
808	64.001	7.75	7.92	11.96	12.24	13.90	14.69
809	64.081	7.73	7.90	11.94	12.22	13.90	14.62
810	64.161	7.71	7.88	11.92	12.20	13.90	14.59
811	64.241	7.69	7.86	11.90	12.18	13.90	14.51
812	64.321	7.67	7.84	11.88	12.16	13.90	14.48
813	64.401	7.65	7.82	11.86	12.14	13.90	14.43
814	64.481	7.63	7.80	11.84	12.12	13.90	14.39
815	64.561	7.61	7.78	11.82	12.10	13.90	14.35
816	64.641	7.59	7.76	11.80	12.08	13.90	14.31
817	64.721	7.57	7.74	11.78	12.06	13.90	14.24
818	64.801	7.55	7.72	11.76	12.04	13.90	14.24
819	64.881	7.53	7.70	11.74	12.02	13.90	14.20
820	64.961	7.51	7.68	11.72	12.00	13.90	14.17
821	65.041	7.49	7.66	11.70	11.98	13.90	14.11
822	65.121	7.48	7.64	11.68	11.96	13.90	14.11
823	65.201	7.47	7.62	11.66	11.94	13.90	14.08
824	65.281	7.45	7.60	11.64	11.92	13.90	14.06
825	65.361	7.44	7.58	11.63	11.90	13.90	14.06
826	65.441	7.43	7.56	11.61	11.88	13.90	14.04
827	65.521	7.41	7.55	11.58	11.86	13.90	14.04
828	65.601	7.40	7.53	11.57	11.84	13.90	14.04
829	65.681	7.39	7.51	11.55	11.82	13.90	14.04
830	65.761	7.37	7.49	11.53	11.80	13.90	14.04
831	65.841	7.36	7.48	11.50	11.78	13.90	14.03
832	65.921	7.35	7.46	11.49	11.77	13.90	14.02
833	66.001	7.33	7.45	11.47	11.75	13.90	14.02
834	66.081	7.32	7.44	11.45	11.73	13.90	13.98
835	66.161	7.31	7.42	11.43	11.71	13.90	13.98
836	66.241	7.29	7.41	11.41	11.69	13.90	13.94
837	66.321	7.28	7.40	11.39	11.67	13.90	13.95
838	66.401	7.27	7.38	11.37	11.65	13.90	13.95
839	66.481	7.25	7.37	11.35	11.63	13.90	13.95
840	66.561	7.24	7.36	11.33	11.61	13.90	13.95
841	66.641	7.23	7.34	11.32	11.59	13.90	13.95
842	66.721	7.21	7.33	11.30	11.57	13.91	13.95
843	66.801	7.20	7.32	11.28	11.55	13.91	13.95
844	66.881	7.19	7.30	11.27	11.53	13.90	13.91
845	66.961	7.17	7.29	11.25	11.51	13.90	13.92
846	67.041	7.16	7.28	11.24	11.49	13.89	13.92
847	67.121	7.15	7.26	11.23	11.47	13.87	13.92
848	67.201	7.13	7.25	11.21	11.45	13.83	13.92
849	67.281	7.12	7.24	11.20	11.43	13.77	13.92

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs'E3)	Station 2 Discharge QC(K,2) (cfs'E3)	Station 3 Discharge QC(K,3) (cfs'E3)	Station 4 Discharge QC(K,4) (cfs'E3)	Station 5 Discharge QC(K,5) (cfs'E3)	Station 6 Discharge QC(K,6) (cfs'E3)
850	67.361	7.11	7.22	11.18	11.41	13.68	13.92
851	67.441	7.09	7.21	11.17	11.39	13.57	13.92
852	67.521	7.08	7.20	11.16	11.38	13.43	13.92
853	67.601	7.07	7.18	11.15	11.36	13.27	13.92
854	67.681	7.05	7.17	11.13	11.34	13.10	13.92
855	67.761	7.04	7.16	11.12	11.32	12.92	13.92
856	67.841	7.03	7.14	11.11	11.31	12.75	13.92
857	67.921	7.01	7.13	11.10	11.29	12.58	13.92
858	68.001	7.00	7.12	11.08	11.28	12.44	13.88
859	68.081	6.99	7.10	11.07	11.26	12.32	13.92
860	68.161	6.97	7.09	11.05	11.25	12.21	13.88
861	68.241	6.96	7.08	11.04	11.23	12.13	13.93
862	68.321	6.95	7.06	11.03	11.22	12.05	13.89
863	68.401	6.93	7.05	11.01	11.21	11.99	13.93
864	68.481	6.92	7.04	11.00	11.19	11.93	13.89
865	68.561	6.91	7.02	10.99	11.18	11.89	13.93
866	68.641	6.89	7.01	10.98	11.16	11.85	13.88
867	68.721	6.88	7.00	10.96	11.15	11.82	13.93
868	68.801	6.87	6.99	10.95	11.14	11.79	13.88
869	68.881	6.85	6.97	10.94	11.13	11.76	13.89
870	68.961	6.84	6.96	10.92	11.11	11.74	13.88
871	69.041	6.83	6.95	10.91	11.10	11.72	13.87
872	69.121	6.81	6.93	10.90	11.09	11.70	13.86
873	69.201	6.80	6.92	10.88	11.07	11.68	13.85
874	69.281	6.79	6.91	10.87	11.06	11.66	13.80
875	69.361	6.77	6.89	10.86	11.05	11.64	13.78
876	69.441	6.76	6.88	10.84	11.04	11.62	13.73
877	69.521	6.75	6.87	10.83	11.02	11.60	13.68
878	69.601	6.73	6.85	10.82	11.01	11.58	13.62
879	69.681	6.72	6.84	10.80	11.00	11.56	13.53
880	69.761	6.71	6.83	10.79	10.98	11.54	13.52
881	69.841	6.69	6.81	10.78	10.97	11.52	13.38
882	69.921	6.68	6.80	10.77	10.95	11.50	13.33
883	70.001	6.67	6.79	10.75	10.94	11.48	13.23
884	70.081	6.65	6.77	10.74	10.93	11.46	13.18
885	70.161	6.64	6.76	10.73	10.92	11.45	13.04
886	70.241	6.63	6.75	10.71	10.90	11.43	12.96
887	70.321	6.61	6.73	10.70	10.89	11.41	12.88
888	70.401	6.60	6.72	10.68	10.88	11.39	12.80
889	70.481	6.59	6.71	10.67	10.86	11.38	12.76
890	70.561	6.57	6.69	10.66	10.85	11.36	12.71
891	70.641	6.56	6.68	10.64	10.84	11.35	12.62
892	70.721	6.55	6.67	10.63	10.82	11.33	12.53
893	70.801	6.53	6.65	10.62	10.81	11.32	12.48
894	70.881	6.52	6.64	10.60	10.80	11.30	12.39
895	70.961	6.51	6.63	10.59	10.79	11.29	12.34
896	71.041	6.49	6.61	10.58	10.77	11.27	12.25
897	71.121	6.48	6.60	10.57	10.76	11.26	12.21
898	71.201	6.47	6.59	10.55	10.75	11.25	12.16
899	71.281	6.45	6.57	10.54	10.73	11.23	12.08

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs'E3)	Station 2 Discharge QC(K,2) (cfs'E3)	Station 3 Discharge QC(K,3) (cfs'E3)	Station 4 Discharge QC(K,4) (cfs'E3)	Station 5 Discharge QC(K,5) (cfs'E3)	Station 6 Discharge QC(K,6) (cfs'E3)
900	71.361	6.44	6.56	10.53	10.72	11.22	12.04
901	71.441	6.43	6.55	10.51	10.71	11.21	12.00
902	71.521	6.41	6.53	10.50	10.69	11.19	11.97
903	71.601	6.40	6.52	10.49	10.68	11.18	11.93
904	71.681	6.39	6.51	10.47	10.67	11.17	11.89
905	71.761	6.37	6.49	10.46	10.65	11.15	11.86
906	71.841	6.36	6.48	10.45	10.64	11.14	11.87
907	71.921	6.35	6.47	10.44	10.63	11.13	11.82
908	72.001	6.33	6.45	10.42	10.61	11.11	11.83
909	72.081	6.32	6.44	10.41	10.60	11.10	11.82
910	72.161	6.31	6.43	10.40	10.59	11.09	11.76
911	72.241	6.29	6.41	10.38	10.58	11.08	11.76
912	72.321	6.28	6.40	10.37	10.56	11.07	11.70
913	72.401	6.27	6.39	10.35	10.55	11.06	11.70
914	72.481	6.25	6.37	10.34	10.54	11.05	11.65
915	72.561	6.24	6.36	10.33	10.52	11.04	11.65
916	72.641	6.23	6.35	10.32	10.51	11.03	11.59
917	72.721	6.21	6.33	10.30	10.50	11.02	11.59
918	72.801	6.20	6.32	10.29	10.49	11.02	11.53
919	72.881	6.19	6.31	10.28	10.47	11.01	11.49
920	72.961	6.17	6.30	10.26	10.46	11.00	11.49
921	73.041	6.16	6.28	10.25	10.44	11.00	11.44
922	73.121	6.15	6.27	10.23	10.43	11.01	11.44
923	73.201	6.13	6.26	10.22	10.42	11.02	11.39
924	73.281	6.12	6.24	10.21	10.41	11.07	11.35
925	73.361	6.11	6.23	10.20	10.39	11.19	11.32
926	73.441	6.09	6.22	10.18	10.38	11.40	11.32
927	73.521	6.08	6.20	10.17	10.37	11.68	11.33
928	73.601	6.07	6.19	10.16	10.35	11.97	11.33
929	73.681	6.05	6.18	10.15	10.34	12.19	11.32
930	73.761	6.04	6.16	10.13	10.33	12.28	11.32
931	73.841	6.03	6.15	10.12	10.31	12.25	11.31
932	73.921	6.01	6.14	10.10	10.30	12.11	11.30
933	74.001	6.00	6.12	10.09	10.29	11.90	11.25
934	74.081	5.99	6.11	10.08	10.27	11.67	11.25
935	74.161	5.97	6.10	10.07	10.26	11.44	11.20
936	74.241	5.96	6.08	10.05	10.25	11.24	11.20
937	74.321	5.95	6.07	10.04	10.23	11.07	11.16
938	74.401	5.93	6.06	10.02	10.22	10.94	11.17
939	74.481	5.92	6.04	10.01	10.21	10.84	11.17
940	74.561	5.91	6.03	10.00	10.19	10.77	11.17
941	74.641	5.89	6.02	9.99	10.18	10.72	11.12
942	74.721	5.88	6.00	9.97	10.17	10.68	11.18
943	74.801	5.87	5.99	9.96	10.16	10.65	11.12
944	74.881	5.85	5.98	9.95	10.14	10.62	11.14
945	74.961	5.84	5.96	9.93	10.13	10.60	11.14
946	75.041	5.83	5.95	9.92	10.12	10.58	11.14
947	75.121	5.81	5.94	9.91	10.10	10.57	11.15
948	75.201	5.80	5.92	9.90	10.09	10.55	11.16
949	75.281	5.79	5.91	9.88	10.08	10.54	11.17

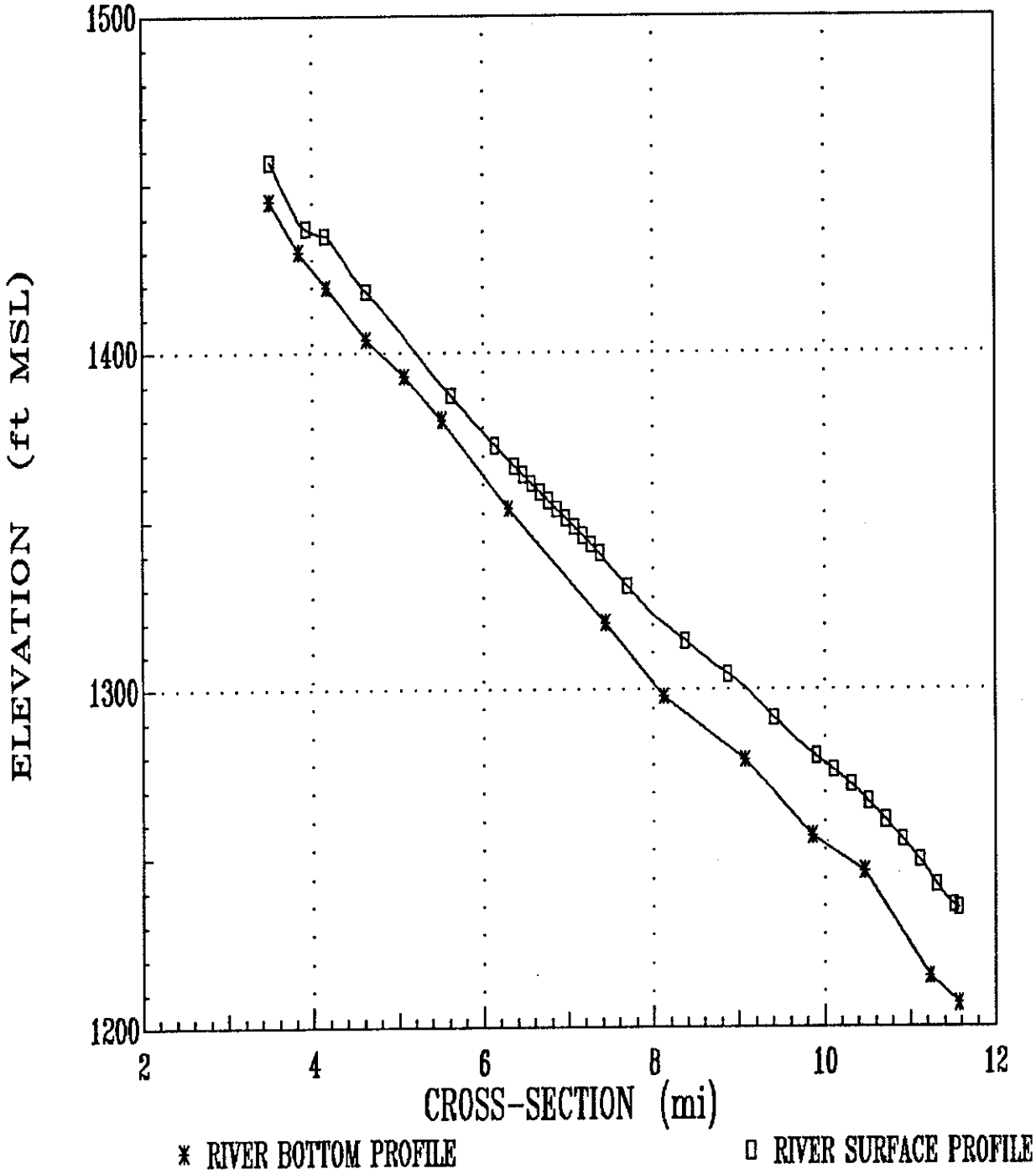
Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs'E3)	Station 2 Discharge QC(K,2) (cfs'E3)	Station 3 Discharge QC(K,3) (cfs'E3)	Station 4 Discharge QC(K,4) (cfs'E3)	Station 5 Discharge QC(K,5) (cfs'E3)	Station 6 Discharge QC(K,6) (cfs'E3)
950	75.361	5.77	5.90	9.87	10.07	10.53	11.18
951	75.441	5.76	5.88	9.85	10.05	10.51	11.25
952	75.521	5.75	5.87	9.84	10.04	10.50	11.26
953	75.601	5.73	5.86	9.83	10.03	10.49	11.33
954	75.681	5.72	5.84	9.82	10.01	10.48	11.38
955	75.761	5.71	5.83	9.80	10.00	10.46	11.43
956	75.841	5.69	5.82	9.79	9.99	10.45	11.47
957	75.921	5.68	5.80	9.77	9.97	10.44	11.47
958	76.001	5.67	5.79	9.76	9.96	10.42	11.50
959	76.081	5.65	5.78	9.75	9.95	10.41	11.49
960	76.161	5.64	5.76	9.74	9.94	10.40	11.47
961	76.241	5.63	5.75	9.72	9.92	10.39	11.45
962	76.321	5.61	5.74	9.71	9.91	10.37	11.43
963	76.401	5.60	5.73	9.70	9.90	10.36	11.37
964	76.481	5.59	5.71	9.68	9.88	10.35	11.35
965	76.561	5.57	5.70	9.67	9.87	10.33	11.29
966	76.641	5.56	5.69	9.65	9.86	10.32	11.23
967	76.721	5.55	5.67	9.64	9.84	10.31	11.18
968	76.801	5.53	5.66	9.63	9.83	10.30	11.13
969	76.881	5.52	5.65	9.62	9.82	10.28	11.08
970	76.961	5.51	5.63	9.60	9.80	10.27	11.04
971	77.041	5.49	5.62	9.59	9.79	10.26	11.00
972	77.121	5.48	5.61	9.58	9.78	10.24	11.00
973	77.201	5.47	5.59	9.56	9.76	10.23	10.95
974	77.281	5.45	5.58	9.55	9.75	10.22	10.96
975	77.361	5.44	5.57	9.54	9.74	10.20	10.95
976	77.441	5.43	5.55	9.53	9.72	10.19	10.89
977	77.521	5.41	5.54	9.51	9.71	10.18	10.88
978	77.601	5.40	5.53	9.50	9.70	10.16	10.82
979	77.681	5.39	5.51	9.49	9.69	10.15	10.77
980	77.761	5.37	5.50	9.47	9.67	10.14	10.77
981	77.841	5.36	5.49	9.46	9.66	10.12	10.71
982	77.921	5.35	5.47	9.45	9.65	10.11	10.70
983	78.001	5.33	5.46	9.43	9.63	10.10	10.64
984	78.081	5.32	5.45	9.42	9.62	10.09	10.64
985	78.161	5.31	5.43	9.41	9.61	10.07	10.54
986	78.241	5.29	5.42	9.39	9.59	10.06	10.50
987	78.321	5.28	5.41	9.38	9.58	10.05	10.51
988	78.401	5.27	5.40	9.37	9.57	10.04	10.47
989	78.481	5.25	5.38	9.35	9.56	10.02	10.48
990	78.561	5.24	5.37	9.34	9.54	10.01	10.43
991	78.641	5.23	5.35	9.33	9.53	10.00	10.45
992	78.721	5.21	5.34	9.31	9.52	9.99	10.40
993	78.801	5.20	5.33	9.30	9.50	9.97	10.46
994	78.881	5.19	5.31	9.29	9.49	9.96	10.41
995	78.961	5.17	5.30	9.28	9.48	9.95	10.46
996	79.041	5.16	5.29	9.26	9.47	9.94	10.45
997	79.121	5.15	5.27	9.25	9.45	9.92	10.44
998	79.201	5.13	5.26	9.24	9.44	9.91	10.38
999	79.281	5.12	5.25	9.22	9.43	9.90	10.43

Time Step Count K	Elapsed Time TTP(K) (hr)	Station 1 Discharge QC(K,1) (cfs E3)	Station 2 Discharge QC(K,2) (cfs E3)	Station 3 Discharge QC(K,3) (cfs E3)	Station 4 Discharge QC(K,4) (cfs E3)	Station 5 Discharge QC(K,5) (cfs E3)	Station 6 Discharge QC(K,6) (cfs E3)
1000	79.361	5.11	5.23	9.21	9.41	9.88	10.36
1001	79.441	5.09	5.22	9.20	9.40	9.87	10.37
1002	79.521	5.08	5.21	9.18	9.39	9.86	10.31
1003	79.601	5.07	5.19	9.17	9.37	9.85	10.31
1004	79.681	5.05	5.18	9.16	9.36	9.83	10.31
1005	79.761	5.04	5.17	9.14	9.35	9.82	10.30
1006	79.841	5.03	5.15	9.13	9.34	9.81	10.25

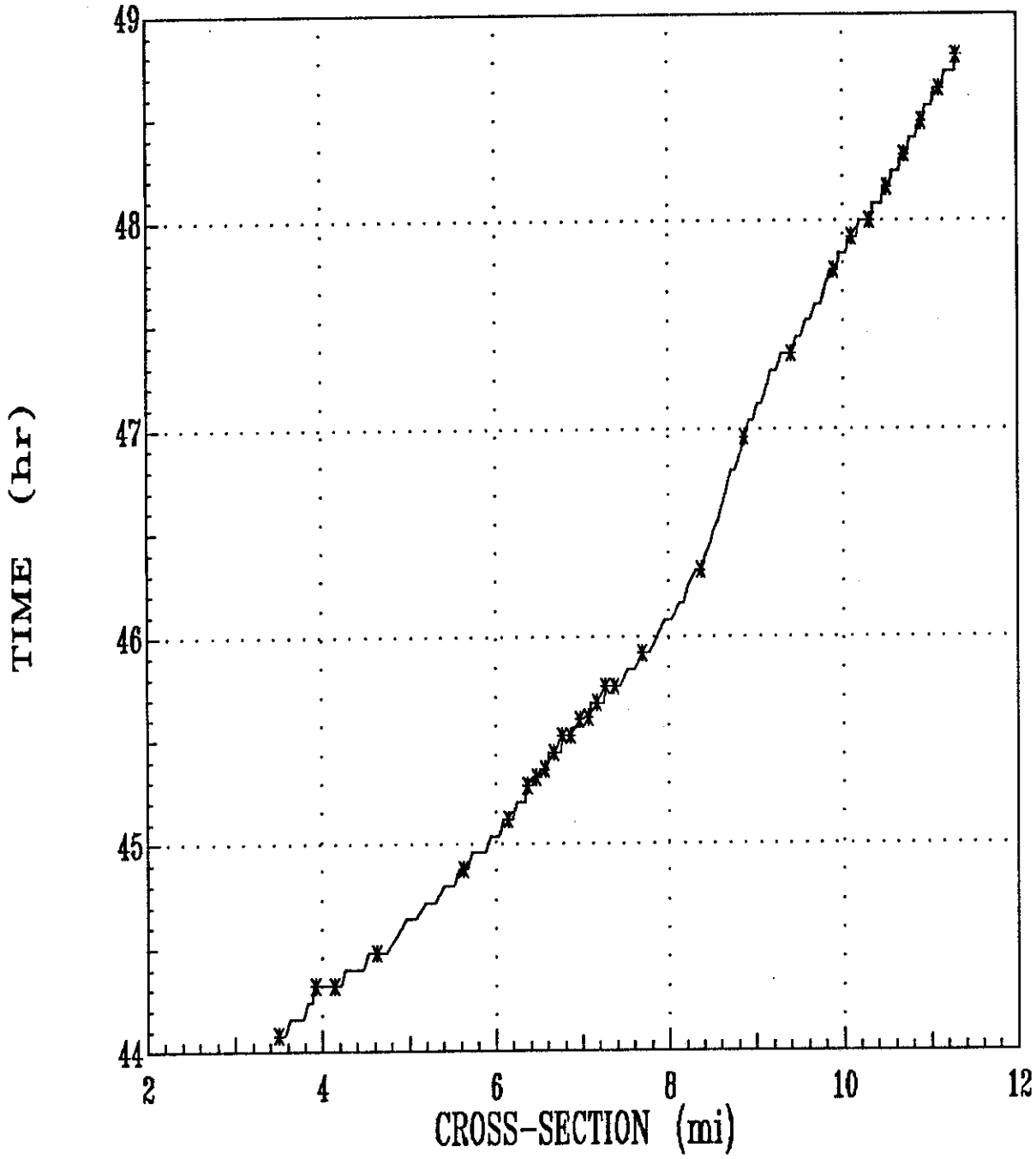
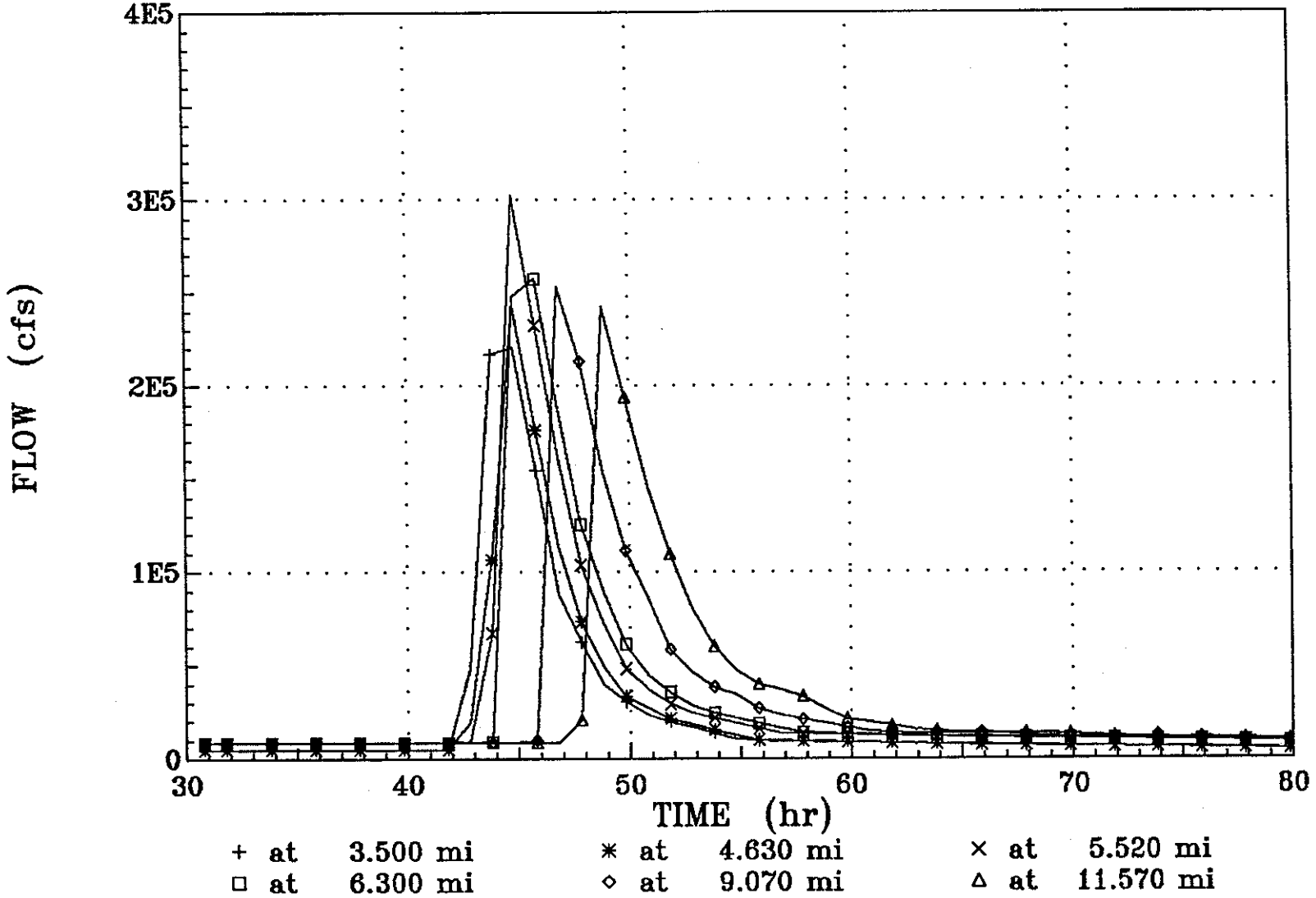
END OF OUTPUT

FLOOD CREST SUMMARY

RIVER BOTTOM & PEAK WATER SURFACE PROFILE



TIME TO PEAK PROFILE



COMBINED FLOW HYDROGRAPHS
FOR RIVER VALLEY