FLOOD CONTROL DISTRICT
RECEIVED
APR 12 1990

	CH ENG		P & PM
	DEP		HYDRO
	ADMIN		LMGT
	FINANCE		FILE
	C & O		
	ENGR		

REMARKS

CAVE CREEK/CAREFREE FLOOD DELINEATION STUDY

APPENDIX C

2 of 3

CH2M HILL
Project No. RDD27815.H3

Registered Professional Engineer (Civil)
CERTIFICATE NO. 40
STEVEN R. WALKER
Date signed 3-27-90
ARIZONA, U.S.A.

PHXR4.222.50

```
*****************************************************
*  WATER SURFACE PROFILES                           *
*  VERSION OF SEPTEMBER 1988                        *
*  ERROR: 01,02,03                                  *
*  UPDATED:  SEPTEMBER 1989                         *
*  RUN DATE     4/10/90    TIME    16:32:10         *
*****************************************************
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****************************************
*  U.S. ARMY CORPS OF ENGINEERS
*  THE HYDROLOGIC ENGINEERING CENTER
*  609 SECOND STREET, SUITE D
*  DAVIS, CALIFORNIA 95616-4687
*           (916) 756-1104
****************************************
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WS.OUT

```
X     X  XXXXXXX   XXXXX              XXXXX
X     X  X        X     X            X     X
X     X  X        X                        X
XXXXXXX  XXXX     X         XXXXX    XXXXX
X     X  X        X                  X
X     X  X        X     X            X
X     X  XXXXXXX   XXXXX             XXXXXXX
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END OF BANNER

```
     .045      .045      .035

X1    2510        13    9986.8   10008.4       320       320       320
GR   2294.8    9936.9    2285.6    9960.1    2281.8    9966.3    2278.7    9975.9    2273.8    9986.8
GR   2272.9    9993.3    2271.6    9999.3    2271.4   10000.0    2272.6   10008.4    2276.3   10023.9
GR   2281.4   10034.9    2288.5   10057.6    2291.5   10070.4

NC     .05       .05      .035

X1    2570        18    9969.5   10024.6       340       220       320
GR   2299.7    9687.1    2297.4    9728.0    2294.1    9775.4    2291.2    9821.4    2288.4    9861.7
GR   2287.9    9907.6    2286.1    9943.9    2284.1    9963.2    2284.9    9969.5    2283.9    9986.7
GR   2282.4   10000.0    2281.0   10010.6    2279.5   10024.6    2293.5   10039.9    2294.6   10054.7
GR   2292.5   10065.0    2296.9   10078.8    2301.2   10088.6

X1    2680        17    9980.3   10012.9       465       645       580
GR   2319.3    9935.2    2313.0    9951.2    2305.1    9963.0    2301.8    9973.3    2300.9    9980.3
GR   2298.3    9991.3    2296.1   10000.0    2296.9   10005.8    2300.4   10012.9    2299.9   10031.6
GR   2299.7   10076.5    2299.4   10108.2    2299.6   10127.5    2302.8   10154.0    2306.8   10182.6
GR   2313.7   10211.8    2317.5   10234.0

NH       4       999    9950.4       .05    9975.9       .035   10036.3       .05   10239.3
X1    2780        23    9975.9   10036.3       530       530       530
GR   2327.2    9740.8    2317.8    9761.8    2312.7    9784.1    2311.3    9805.3    2312.1    9830.1
     2313.8    9879.0    2314.3    9918.8    2314.8    9950.4    2314.2    9969.5    2313.3    9975.9
     2308.8    9987.0    2305.9    9996.1    2305.2   10000.0    2308.1   10013.8    2311.1   10036.3
GR   2312.8   10041.4    2316.0   10064.9    2315.9   10094.4    2315.1   10139.4    2315.7   10182.7
GR   2317.5   10210.5    2327.6   10234.9    2332.7   10239.3

NC     .05       .05      .035

X1    2850        14    9973.1   10010.3       370       370       370
GR   2339.4    9890.1    2339.8    9915.7    2335.8    9935.2    2323.5    9956.5    2316.9    9973.1
GR   2315.7    9979.5    2315.4    9979.6    2314.2    9995.7    2314.8   10000.0    2316.1   10010.3
GR   2322.3   10015.5    2327.7   10032.2    2329.0   10059.3    2329.0   10090.7

QT       4      1698       2528      2932      3640

NC    .045      .045       .04

          CONFLUENCE WITH WILLOW SPRINGS TRIB. 4
          QT VALUES ARE FROM HEC-1 AT CP 17A
X1    2930        15    9980.8   10041.6       515       320       420
GR   2349.2    9930.5    2346.0    9947.3    2335.6    9971.6    2332.1    9980.8    2330.3    9995.5
GR   2329.5   10000.0    2329.0   10015.4    2330.2   10032.2    2331.8   10041.6    2333.8   10045.5
GR   2339.4   10070.1    2340.2   10095.0    2342.2   10115.4    2345.8   10140.2    2348.7   10149.1
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	.05	.05	.04							
X1	2990	11	9989.2	10015.6	320	320	320			
GR	2345.0	9915.7	2349.1	9938.8	2346.3	9960.5	2343.7	9974.4	2340.7	9989.2
GR	2338.2	9999.1	2339.1	10000.0	2341.2	10015.6	2349.4	10036.9	2353.6	10059.6
GR	2356.4	10082.1								
NC	.06	.06	.045							
X1	3050	15	9994.4	10025.3	340	200	320			
GR	2372.6	9894.3	2368.7	9925.2	2364.9	9930.6	2358.6	9961.4	2355.3	9980.8
GR	2352.8	9994.4	2351.2	10000.0	2351.5	10010.6	2353.7	10025.3	2357.5	10043.6
GR	2359.0	10074.0	2360.8	10099.2	2362.2	10129.8	2362.2	10155.6	2362.7	10168.2
NC	.055	.055	.04							
X1	3140	13	9997.7	10018.0	475	475	475			
GR	2383.7	9766.8	2379.4	9839.2	2372.1	9877.6	2368.2	9906.9	2366.1	9933.4
GR	2366.8	9950.2	2366.9	9978.7	2366.0	9997.7	2365.1	10000.0	2363.8	10014.9
GR	2363.6	10018.0	2392.2	10047.0	2394.7	10054.0				
NH	4	.055	9984.3	.04	10014.3	.055	10028.6	999	10264.5	
X1	3230	25	9984.3	10014.3	480	480	480			
	2398.0	9838.6	2394.4	9867.4	2389.1	9888.5	2383.1	9918.8	2381.5	9937.6
	2379.6	9961.4	2378.3	9972.7	2376.1	9984.3	2374.9	9991.3	2374.3	9997.4
GR	2373.8	10000.0	2374.6	10005.5	2377.4	10014.3	2378.2	10028.6	2377.5	10063.6
GR	2377.6	10096.7	2380.2	10122.7	2380.7	10148.7	2380.8	10174.6	2381.3	10184.7
GR	2381.1	10197.6	2383.2	10201.4	2384.6	10218.1	2387.9	10246.7	2395.2	10264.5
NC	.055	.055	.04							
X1	3310	23	9970.9	10007.2	420	420	420			
GR	2440.0	9850.5	2426.6	9887.6	2412.0	9913.5	2399.5	9938.6	2393.3	9954.7
GR	2387.9	9970.9	2387.2	9976.7	2386.0	9981.4	2385.8	9989.6	2385.6	9995.9
GR	2385.1	9999.1	2386.0	10000.0	2387.1	10007.2	2391.3	10019.0	2391.8	10034.0
GR	2396.7	10053.6	2398.4	10077.7	2400.1	10088.1	2401.0	10095.5	2400.3	10118.5
GR	2403.6	10121.4	2406.5	10142.6	2411.7	10155.5				
X1	3390	12	9982.5	10012.8	420	420	420			
GR	2421.6	9894.0	2408.4	9936.7	2399.6	9974.1	2398.0	9982.5	2395.3	9992.4
GR	2394.4	9999.3	2394.0	10000.0	2395.6	10007.4	2398.4	10012.8	2406.9	10018.4
GR	2419.2	10034.5	2424.4	10045.2						

```
     .055      .055      .035

X1    3490        17    9988.0   10017.0       530       530       530
GR   2440.7    9893.6    2428.8    9930.7    2419.9    9960.5    2412.4    9972.5    2409.1    9988.0
GR   2407.4    9993.0    2406.5    9998.5    2406.5   10000.0    2407.7   10006.1    2410.6   10017.0
GR   2415.1   10025.3    2421.5   10054.2    2424.0   10077.0    2424.5   10099.2    2423.9   10110.8
GR   2428.3   10128.2    2433.4   10140.4

X1    3590        10    9990.9   10006.2       530       530       530
GR   2441.4    9951.5    2428.6    9970.8    2425.0    9983.2    2422.4    9990.9    2420.3    9996.4
GR   2420.4   10000.0    2421.7   10006.2    2432.0   10014.3    2439.8   10033.1    2445.7   10046.7

NC    .055      .055       .04

X1    3680        11    9989.2   10005.9       480       480       480
GR   2441.4    9931.0    2440.3    9965.1    2439.9    9967.2    2438.2    9981.5    2434.0    9989.2
GR   2432.8    9996.0    2433.0   10000.0    2434.3   10005.9    2440.8   10013.3    2453.6   10025.2
GR   2457.8   10036.0

QT       4      1189      1755      2027      2502

         QT VALUES ARE FROM HEC-1 AT CP 16
X1    3810        23    9975.0   10016.4       690       690       690
GR   2480.0    9821.6    2478.0    9843.9    2469.3    9886.8    2465.9    9917.5    2463.2    9940.6
     2461.5    9964.8    2460.3    9975.0    2459.3    9984.9    2458.4    9992.4    2458.8   10000.0
     2460.0   10013.6    2459.8   10016.4    2462.2   10033.0    2464.0   10046.4    2468.7   10053.5
GR   2470.4   10077.3    2471.9   10107.2    2473.0   10137.0    2473.3   10163.5    2471.3   10176.6
GR   2473.9   10193.9    2478.2   10229.6    2480.7   10250.1

X1    3940        26    9980.9   10035.2       670       710       690
GR   2498.7    9827.8    2496.5    9829.7    2492.8    9831.4    2493.1    9843.6    2491.5    9853.0
GR   2488.0    9862.6    2487.3    9872.7    2486.8    9886.0    2485.8    9916.7    2483.1    9950.5
GR   2480.6    9980.9    2479.9    9986.0    2479.3    9999.2    2478.9   10000.0    2479.5   10014.0
GR   2480.2   10035.2    2481.5   10060.0    2483.4   10079.0    2484.8   10098.5    2486.1   10129.2
GR   2488.6   10157.5    2491.1   10179.3    2494.0   10203.7    2496.2   10225.1    2497.7   10245.7
GR   2499.1   10254.2

X1    4040        16    9990.6   10016.0       530       530       530
GR   2513.5    9952.9    2511.4    9966.6    2504.1    9980.8    2497.3    9990.6    2494.2    9997.7
GR   2493.4   10000.0    2493.9   10004.7    2497.2   10013.8    2498.4   10016.0    2500.4   10038.7
GR   2503.7   10052.9    2509.7   10070.5    2513.6   10091.4    2514.2   10109.5    2515.9   10130.3
GR   2517.3   10144.0
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     4160        18    9981.0   10007.5       610       610       630
GR  2564.1    9861.7    2549.6    9887.7    2534.0    9911.0    2524.0    9928.8    2517.8    9948.3
GR  2515.7    9957.2    2514.7    9973.5    2513.3    9981.0    2511.7    9992.1    2510.4    9998.8
GR  2510.3   10000.0    2511.3   10007.5    2519.6   10012.0    2531.5   10031.9    2534.4   10048.1
GR  2534.8   10082.8    2534.5   10118.1    2535.0   10147.0

X1     4240        22   10019.1   10118.0       440       400       420
GR  2549.7    9838.8    2544.9    9867.3    2539.5    9894.6    2534.2    9923.7    2531.8    9956.9
GR  2531.1    9978.9    2532.4   10000.0    2532.6   10019.1    2532.1   10039.5    2531.8   10054.4
GR  2531.6   10073.2    2532.1   10098.0    2532.9   10118.0    2535.0   10138.5    2537.1   10157.4
GR  2538.9   10169.8    2542.0   10190.2    2543.8   10218.0    2547.0   10252.7    2547.5   10280.8
GR  2549.0   10313.9    2548.6   10315.0

QT        4       420       626       724       897

NC     .065      .065       .05

          CONFLUENCE WITH FLEMMING SPRING
          QT VALUES ARE FROM HEC-1 AT SUBWTRSHD D2
X1     4310        17    9993.9   10019.7       370       370       370
GR  2556.2    9835.4    2551.7    9868.1    2546.2    9909.9    2543.0    9938.2    2542.3    9956.3
GR  2542.2    9974.0    2541.7    9993.9    2540.2   10000.0    2539.9   10006.7    2540.9   10013.9
GR  2543.2   10019.7    2545.1   10046.6    2546.4   10068.8    2550.7   10082.2    2558.4   10091.2
GR  2559.3   10115.8    2559.9   10131.1

     .065      .065       .06

X1     4380        18    9978.1   10006.8       350       220       320
GR  2572.6    9941.5    2559.5    9966.0    2552.4    9978.1    2552.2    9980.8    2551.3    9990.7
GR  2549.5   10000.0    2551.1   10006.8    2553.6   10013.0    2556.4   10029.2    2559.9   10044.6
GR  2559.5   10064.4    2560.9   10082.1    2563.0   10095.4    2569.1   10113.4    2571.6   10131.0
GR  2572.0   10151.8    2570.7   10181.3    2570.8   10188.9

NC      .08       .08       .06

X1     4490        12   10015.8   10026.2       550       610       580
GR  2597.1    9914.9    2587.1    9945.9    2581.1    9970.9    2580.3    9981.6    2578.1   10000.0
GR  2579.6   10015.8    2577.5   10017.0    2577.5   10026.2    2587.5   10038.4    2592.3   10056.1
GR  2595.5   10075.8    2597.0   10094.0

X1     4600        11    9993.0   10000.0       580       580       580
GR  2636.0    9958.9    2626.0    9979.8    2619.2    9986.1    2611.3    9993.0    2611.3    9997.8
GR  2611.5   10000.0    2612.8   10006.6    2614.6   10015.1    2621.1   10017.1    2628.6   10035.2
GR  2639.6   10055.0
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     .055      .055      .04

X1   4690        12    9985.1   10008.0      490      460      480
GR  2699.6    9886.7    2683.1    9941.9   2676.0   9971.2   2671.2   9985.1   2669.4   9997.0
GR  2668.5   10000.0    2670.5   10008.0   2680.1  10014.9   2688.6  10038.6   2715.6  10069.7
GR  2739.0   10108.9    2748.3   10116.9


X1   4770         9    9989.8   10000.0      430      430      430
GR  2741.8    9937.3    2725.1    9961.6   2718.2   9982.5   2716.7   9989.8   2716.0  10000.0
GR  2719.6   10006.6    2726.6   10010.8   2741.6  10028.8   2756.9  10039.4


NC    .05       .05       .04

X1   4850        14    9993.0   10006.8      420      420      420
GR  2769.4    9944.5    2761.2    9968.4   2757.9   9976.7   2752.4   9993.0   2750.6   9999.0
GR  2749.5   10000.0    2752.0   10006.8   2758.7  10018.5   2761.6  10022.8   2761.1  10034.0
GR  2763.0   10046.6    2774.5   10065.8   2785.4  10088.3   2793.5  10107.4


QT      4       210       313       362       448


NC    .06       .06       .05

        QT VALUES ARE 50% OF SUBWTRSHD D2
     4950        11    9998.3   10018.0      520      540      530
    2806.5    9963.3    2796.1    9980.7   2791.0   9998.3   2787.5   10000.0   2788.1  10005.6
GR  2789.3   10018.0    2793.2   10028.9   2794.9  10031.8   2798.5  10056.7   2800.8  10082.9
GR  2801.7   10084.1


NC    .08       .08       .06

X1   5020        10    9992.8   10023.6      370      370      370
GR  2835.1    9947.2    2826.3    9969.9   2820.8   9980.2   2817.6   9992.8   2815.4  10000.0
GR  2816.4   10010.6    2817.9   10023.6   2823.3  10029.2   2829.3  10052.0   2834.1  10064.4


X1   5100        12    9986.0    9997.7      440      400      420
GR  2869.8    9949.9    2862.4    9967.2   2855.0   9982.1   2850.0   9986.0   2848.8   9991.2
GR  2848.8    9997.7    2850.4   10000.0   2856.5  10008.4   2861.6  10014.0   2867.2  10028.2
GR  2874.5   10053.3    2877.7   10077.7


X1   5180        13    9996.2   10000.0      420      420      420
GR  2910.9    9943.1    2903.1    9957.1   2899.6   9970.5   2899.3   9971.4   2891.3   9987.9
GR  2887.5    9996.2    2886.8   10000.0   2895.8  10012.5   2900.6  10021.0   2904.4  10036.8
GR  2905.6   10053.3    2915.3   10076.3   2917.5  10081.0
```

	.07	.07	.05							
X1	5240	11	9998.7	10011.1	320	320	320			
GR	2962.9	9953.9	2959.7	9965.2	2952.1	9980.4	2942.6	9987.5	2941.8	9998.7
GR	2937.4	10000.0	2940.2	10011.1	2945.7	10020.0	2949.5	10034.6	2953.0	10050.9
GR	2952.4	10058.5								
X1	5310	8	10000.0	10004.4	380	360	370			
GR	3020.9	9951.5	3015.5	9975.3	3006.8	9991.8	3002.0	10000.0	3002.7	10004.4
GR	3010.7	10014.4	3015.9	10020.9	3018.9	10046.3				

```
 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*PROF 1



CCHV=     .100 CEHV=     .300
*SECNO 1780.000
         ****REVISED STREAMFLOWS TAKEN FROM CVCRK43.OUT****
         COMMON SECTION IS SEC. 1780 FROM WILLOW SPR. WASH (HTA)
         STRT W.S. ELEV. FROM HTA FIS
         QT VALUES ARE FROM HEC-1 AT CP 19
 1780.000     6.73  2186.03  2186.02  2186.03  2188.14     2.11      .00      .00  2182.90
    2652.     162.    2413.      76.      43.     198.      21.       0.       0.   2181.70
      .00     3.80    12.18     3.58     .045     .025     .045     .000  2179.30  9959.90
  .004728       0.       0.       0.        0        4        0      .00    69.04 10028.93


*SECNO 1910.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1910.000     8.32  2207.32  2207.32      .00  2209.46     2.14     3.41      .01  2205.10
    2652.      24.    2505.     123.      10.     208.      32.       4.       1.   2204.10
      .02     2.49    12.04     3.85     .045     .025     .045     .000  2199.00  9968.03
  .005161     680.     690.     710.       20       11        0      .00    66.33 10034.36


*SECNO 1970.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
         CONFLUENCE WITH WILLOW SPRINGS TRIB. 2
         QT VALUES ARE FROM HEC-1 AT CP 17
 1970.000     4.90  2218.00  2218.00      .00  2219.26     1.26     2.34      .09  2216.50
    1835.       7.    1827.       0.       3.     202.       0.       6.       2.   2217.10
      .03     2.74     9.03     1.40     .050     .035     .050     .000  2213.10  9937.97
  .013903     320.     320.     320.       20       14        0      .00    86.95 10024.92


*SECNO 2100.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


2100.000     3.91  2231.81  2231.81      .00  2233.53     1.72     7.71      .14  2230.60
   1835.       3.    1832.       0.       2.     174.       0.       9.       3.   2232.50
     .04     2.13    10.55      .00     .045     .030     .000     .000  2227.90  9977.44
 .009186     690.     690.     690.        9       15        0      .00    52.92 10030.35


*SECNO 2170.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
2170.000     6.79  2239.19  2239.19      .00  2241.11     1.93     2.74      .06  2235.40
   1835.     168.    1577.      91.      43.     133.      21.      10.       3.   2234.10
     .05     3.91    11.90     4.40     .045     .030     .045     .000  2232.40  9964.57
 .006097     300.     370.     490.       20       14        0      .00    54.58 10019.14


*SECNO 2270.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
2270.000     4.08  2251.38  2251.38      .00  2252.89     1.51     3.91      .04  2251.10
   1835.       0.    1818.      17.       0.     184.       6.      13.       4.   2249.50
     .07      .03     9.89     2.94     .045     .030     .045     .000  2247.30  9955.66
 .009134     530.     530.     530.       20       14        0      .00    66.61 10022.27


*SECNO 2360.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
2360.000     3.60  2260.10  2260.10      .00  2261.25     1.15     5.87      .04  2259.70
   1835.       2.    1833.       0.       1.     213.       0.      15.       5.   2261.00
     .08     1.50     8.62      .00     .045     .040     .000     .000  2256.50  9969.33
 .017665     475.     475.     475.       14       11        0      .00    98.79 10068.12


*SECNO 2450.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
2450.000     5.49  2272.49  2272.49      .00  2273.58     1.08     5.40      .01  2272.10
   1835.     353.    1402.      80.      95.     151.      18.      17.       6.   2268.10
     .10     3.72     9.31     4.55     .045     .030     .045     .000  2267.00  9890.98
 .007931     475.     475.     475.       20       11        0      .00   128.01 10018.99
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 2510.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2510.000     6.35  2277.75  2277.75      .00  2279.67     1.91     2.72      .25  2273.80
    1835.      81.    1396.     357.      17.     114.      53.      19.       7.  2272.60
      .11     4.68    12.21     6.68     .045     .035     .045     .000  2271.40  9978.01
  .009146     320.     320.     320.       20        8        0      .00    49.02 10027.03


*SECNO 2570.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2570.000     6.22  2285.72  2285.72      .00  2287.01     1.29     3.03      .06  2284.90
    1835.      60.    1662.     112.      20.     176.      21.      21.       7.  2279.50
      .12     2.96     9.44     5.32     .050     .035     .050     .000  2279.50  9947.58
  .010586     340.     320.     220.       20        6        0      .00    83.82 10031.40


*SECNO 2680.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2680.000     5.26  2301.36  2301.36      .00  2302.24      .88     6.55      .04  2300.90
    1835.       1.     976.     858.       1.     103.     198.      24.       9.  2300.40
      .14     1.18     9.49     4.33     .050     .035     .050     .000  2296.10  9976.76
  .011445     465.     580.     645.       20        9        0      .00   165.28 10142.04


1490 NH CARD USED
*SECNO 2780.000

3265 DIVIDED FLOW
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2780.000     6.27  2311.47  2311.47      .00  2313.12     1.65     6.47      .23  2313.30
    1835.      0.    1835.      0.       1.     178.      0.      27.      10.   2311.10
      .16     .00    10.31     1.06     .000     .035     .050     .000  2305.20  9802.72
  .013043    530.     530.     530.       13       11       0      .00    64.86 10037.41


*SECNO 2850.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2850.000     5.22  2319.42  2319.42      .00  2321.41     1.99     4.39      .10  2316.90
    1835.      27.    1793.      15.       8.     157.      5.      29.      11.   2316.10
      .17     3.44    11.43     3.23     .050     .035     .050     .000  2314.20  9966.76
  .010844    370.     370.     370.       12       15       0      .00    46.32 10013.08


*SECNO 2930.000

7301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
          CONFLUENCE WITH WILLOW SPRINGS TRIB. 4
          QT VALUES ARE FROM HEC-1 AT CP 17A
 2930.000     4.03  2333.03  2333.03      .00  2334.46     1.43     5.50      .06  2332.10
    1698.       3.    1691.       4.       1.     176.      1.      30.      11.   2331.80
      .18     2.42     9.62     2.83     .045     .040     .045     .000  2329.00  9978.36
  .016406    515.     420.     320.       20       15       0      .00    65.64 10044.00


*SECNO 2990.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2990.000     6.40  2344.60  2344.60      .00  2346.33     1.73     4.46      .09  2340.70
    1698.     209.    1422.      67.      38.     126.     15.      31.      12.   2341.20
      .19     5.54    11.30     4.43     .050     .040     .050     .000  2338.20  9969.57
  .012004    320.     320.     320.       20       14       0      .00    54.88 10024.44
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
          QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*SECNO 3050.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3050.000     5.21  2356.41  2356.41      .00  2358.01     1.60     4.30      .01  2352.80
    1698.     180.     1452.      66.     36.     134.      18.      33.      12.   2353.70
      .20     5.04     10.81     3.71    .060     .045     .060     .000  2351.20  9974.27
  .015358     340.      320.     200.      20       15        0      .00    64.08 10038.35


*SECNO 3140.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3140.000     5.13  2368.73  2368.73      .00  2369.66      .93     6.00      .07  2366.00
    1698.     778.      865.      55.    178.      87.      13.      35.      13.   2363.60
      .21     4.37     9.97     4.15    .055     .040     .055     .000  2363.60  9902.91
  .010561     475.      475.     475.      20        6        0      .00   120.29 10023.20


  NH CARD USED
*SECNO 3230.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3230.000     5.81  2379.61  2379.61      .00  2381.10     1.49     5.22      .17  2376.10
    1698.     158.     1430.     110.     35.     135.     176.      39.      15.   2377.40
      .23     4.46     10.57      .62    .055     .040     .370     .000  2373.80  9961.27
  .011184     480.      480.     480.      20        8        0      .00   155.53 10116.80


*SECNO 3310.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3310.000     5.25  2390.35  2390.35      .00  2392.10     1.75     5.16      .08  2387.90
    1698.      31.     1604.      62.      9.     147.      15.      41.      16.   2387.10
      .24     3.48     10.88     4.18    .055     .040     .055     .000  2385.10  9963.54
  .013570     420.      420.     420.      20       12        0      .00    52.80 10016.34
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*SECNO 3390.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3390.000     6.45  2400.45  2400.45      .00  2402.46     2.01     5.62      .08  2398.00
    1698.      62.    1633.       3.      15.     141.       1.      43.      16.   2398.40
      .25     4.03    11.56     2.12     .055     .040     .055     .000  2394.00  9970.47
  .013200     420.     420.     420.       13       11        0      .00    43.69 10014.15


*SECNO 3490.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3490.000     6.25  2412.75  2412.75      .00  2414.61     1.86     5.83      .01  2409.10
    1698.     127.    1561.      11.      31.     138.       4.      45.      17.   2410.60
      .26     4.07    11.35     2.51     .055     .035     .055     .000  2406.50  9971.94
  .009313     530.     530.     530.       17        8        0      .00    49.03 10020.97


*SECNO 3590.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3590.000     7.46  2427.76  2427.76      .00  2430.23     2.47     4.69      .18  2422.40
    1698.     230.    1413.      55.      44.     104.      14.      47.      17.   2421.70
      .27     5.18    13.65     3.77     .055     .035     .055     .000  2420.30  9973.68
  .008434     530.     530.     530.       20       11        0      .00    37.29 10010.97


*SECNO 3680.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3680.000     7.15  2439.95  2439.95      .00  2442.12     2.17     4.37      .03  2434.00
    1698.     210.    1407.      80.      42.     110.      18.      49.      18.   2434.30
      .29     4.96    12.81     4.42     .055     .040     .055     .000  2432.80  9966.96
  .009840     480.     480.     480.       20       11        0      .00    45.37 10012.33


*SECNO 3810.000
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*SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
QT VALUES ARE FROM HEC-1 AT CP 16

3810.000	3.81	2462.21	2462.21	.00	2463.30	1.09	7.66	.11	2460.30
1189.	55.	1063.	71.	17.	121.	20.	51.	19.	2459.80
.31	3.27	8.77	3.53	.055	.040	.055	.000	2458.40	9954.70
.013391	690.	690.	690.	20	11	0	.00	78.38	10033.07

*SECNO 3940.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3940.000	3.13	2482.03	2482.03	.00	2482.95	.92	9.79	.02	2480.60
1189.	33.	1047.	110.	12.	129.	31.	54.	20.	2480.20
.34	2.64	8.10	3.58	.055	.040	.055	.000	2478.90	9963.54
.015021	670.	690.	710.	12	15	0	.00	101.75	10065.28

*SECNO 4040.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

4040.000	6.12	2499.52	2499.52	.00	2501.30	1.79	7.57	.26	2497.30
1189.	10.	1164.	15.	4.	107.	7.	56.	21.	2498.40
.35	2.96	10.84	2.13	.055	.040	.055	.000	2493.40	9987.41
.013596	530.	530.	530.	20	17	0	.00	41.25	10028.66

*SECNO 4160.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

4160.000	5.35	2515.65	2515.65	.00	2517.18	1.53	7.95	.03	2513.30
1189.	63.	1111.	15.	20.	108.	5.	58.	22.	2511.30
.37	3.20	10.24	3.00	.055	.040	.055	.000	2510.30	9958.04
.011777	610.	630.	610.	14	11	0	.00	51.82	10009.86

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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 4240.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4240.000     2.04  2533.14  2533.14      .00  2533.72      .58     7.45      .09  2532.60
    1189.     494.     695.       0.      91.     105.       0.      59.      23.   2532.90
      .39     5.43     6.59     1.11     .055     .040     .055     .000  2531.10  9938.40
  .028915     440.     420.     400.       20       22        0      .00   181.92 10120.32


*SECNO 4310.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
         CONFLUENCE WITH FLEMMING SPRING
         QT VALUES ARE FROM HEC-1 AT SUBWTRSHD D2
 4310.000     2.92  2542.82  2542.82      .00  2543.39      .57     9.51      .00  2541.70
     420.      76.     344.       0.      31.      52.       0.      60.      24.   2543.20
      .40     2.46     6.60      .00     .065     .050     .000     .000  2539.90  9942.84
  .019035     370.     370.     370.        4       11        0      .00    75.90 10018.74


*SECNO 4380.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4380.000     3.35  2552.85  2552.85      .00  2553.74      .89     8.87      .10  2552.40
     420.       0.     404.      16.       0.      53.       4.      61.      24.   2551.10
      .42     1.61     7.68     4.16     .065     .060     .065     .000  2549.50  9977.33
  .043757     350.     320.     220.       12       11        0      .00    33.82 10011.15


*SECNO 4490.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4490.000     2.76  2580.26  2580.26      .00  2580.98      .72    22.95      .02  2579.60
     420.     172.     231.      17.      42.      27.       5.      62.      25.   2577.50
      .44     4.11     8.40     3.71     .080     .060     .080     .000  2577.50  9981.92
  .036546     550.     580.     610.       20       12        0      .00    47.65 10029.57
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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS    BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


*SECNO 4600.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4600.000     3.55  2614.85  2614.85      .00  2615.99      1.14     19.73      .13  2611.30
    420.       20.     252.     148.       6.      25.       28.       63.      25.   2611.50
     .46     3.67     10.21     5.36     .080     .060      .080      .000  2611.30  9989.90
  .031751     580.     580.     580.        8       11         0       .00    25.28 10015.18


*SECNO 4690.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4690.000     3.53  2672.03  2672.03      .00  2673.09      1.07     11.28      .01  2671.20
    420.        2.     416.       2.       1.      50.        1.       63.      26.   2670.50
     .48     1.95      8.33     2.13     .055     .040      .055      .000  2668.50  9982.71
  .018302     490.     480.     460.       20        5         0       .00    26.39 10009.10


*SECNO 4770.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
 0 CRITICAL DEPTH ASSUMED
 70.000     3.39  2719.39  2719.39      .00  2720.49      1.10      7.14      .01  2716.70
    420.       77.     297.      46.      16.      31.       11.       64.      26.   2716.00
     .49     4.73      9.58     4.33     .055     .040      .055      .000  2716.00  9978.89
  .015122     430.     430.     430.       20        8         0       .00    27.33 10006.22


*SECNO 4850.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4850.000     4.61  2754.11  2754.11      .00  2755.36      1.24      6.39      .04  2752.40
    420.       14.     393.      14.       4.      43.        4.       64.      26.   2752.00
     .50     3.20      9.22     3.47     .050     .040      .050      .000  2749.50  9987.93
  .015309     420.     420.     420.       20       11         0       .00    22.56 10010.49


*SECNO 4950.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
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        QT VALUES ARE 50% OF SUBWTRSHD D2
  50.000     2.49  2789.99  2789.99     .00  2790.75     .76    10.29     .05  2791.00
    210.       0.     209.       1.      0.     30.      1.      65.     26.   2789.30
     .53      .00     7.01     2.18    .000    .050    .060     .000  2787.50  9998.79
 .034704     520.     530.     540.      20      11       0      .00   21.13 10019.92


*SECNO 5020.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 5020.000     2.25  2817.65  2817.65     .00  2818.26     .61    15.68     .01  2817.60
    210.       0.     210.       0.      0.     34.      0.      65.     27.   2817.90
     .54      .04     6.27      .00    .080    .060    .000     .000  2815.40  9992.62
 .052936     370.     370.     370.       4      11       0      .00   28.79 10021.41


*SECNO 5100.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 5100.000     2.32  2851.12  2851.12     .00  2852.06     .95    19.52     .10  2850.00
    210.       1.     193.      16.      0.     24.      4.      65.     27.   2848.80
     .56     1.85     8.06     4.12    .080    .060    .080     .000  2848.80  9985.13
 .041266     440.     420.     400.       4       8       0      .00   15.86 10000.99


*SECNO 5180.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 5180.000     3.66  2890.46  2890.46     .00  2891.55    1.09    15.92     .04  2887.50
    210.      40.     128.      42.     10.     13.      9.      66.     27.   2886.80
     .57     4.23    10.16     4.52    .080    .060    .080     .000  2886.80  9989.74
 .034950     420.     420.     420.      11      14       0      .00   15.33 10005.08


*SECNO 5240.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 5240.000     3.55  2940.95  2940.95     .00  2941.97    1.02    11.50     .01  2941.80
    210.       0.     209.       1.      0.     26.      0.      66.     27.   2940.20
     .58      .00     8.13     1.90    .000    .050    .070     .000  2937.40  9998.95
 .036978     320.     320.     320.      20       8       0      .00   13.36 10012.31


*SECNO 5310.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 5310.000     3.58  3005.58  3005.58     .00  3006.74    1.16    11.03     .04  3002.00
    210.      48.     143.      19.     11.     14.      5.      66.     27.   3002.70
     .60     4.44    10.07     3.59    .070    .050    .070     .000  3002.00  9993.89
 .024477     380.     370.     360.      20       5       0      .00   14.11 10008.00
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T3 FLOOD CONTROL DISTRICT OF MARICOPA CO. - LA027815.H2
50-YEAR FLOOD FREQUENCY MODEL
T3 WILLOW SPRINGS WASH (WS.DAT)

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
		3							2187.68	
J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	2		-1							

```
 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*PROF 2



CCHV=     .100 CEHV=     .300
*SECNO 1780.000
         ****REVISED STREAMFLOWS TAKEN FROM CVCRK43.OUT****
         COMMON SECTION IS SEC. 1780 FROM WILLOW SPR. WASH (HTA)
         STRT W.S. ELEV. FROM HTA FIS
         QT VALUES ARE FROM HEC-1 AT CP 19
 1780.000     8.38  2187.68      .00  2187.68  2190.05     2.37      .00      .00  2182.90
    4004.     389.    3438.     177.      82.     260.      39.       0.       0.   2181.70
      .00     4.73    13.20     4.49     .045     .025     .045     .000  2179.30  9955.60
  .003863       0.       0.       0.        0        0        0      .00    75.04 10030.63


*SECNO 1910.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1910.000     9.68  2208.68  2208.68      .00  2211.38     2.70     2.98      .10  2205.10
    4004.      82.    3643.     278.      25.     265.      55.       6.       1.   2204.10
      .01     3.32    13.74     5.10     .045     .025     .045     .000  2199.00  9962.76
   004861     680.     690.     710.       20       11        0      .00    72.87 10035.64


*SECNO 1970.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
         CONFLUENCE WITH WILLOW SPRINGS TRIB. 2
         QT VALUES ARE FROM HEC-1 AT CP 17
 1970.000     5.66  2218.76  2218.76      .00  2220.38     1.62     2.17      .11  2216.50
    2746.      21.    2723.       2.       6.     265.       1.       8.       2.   2217.10
      .02     3.42    10.26     2.01     .050     .035     .050     .000  2213.10  9936.12
  .012510     320.     320.     320.       20       14        0      .00    89.32 10025.44


*SECNO 2100.000
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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS    BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2100.000     4.99  2232.89  2232.89      .00  2235.09      2.20      6.98       .17  2230.60
    2746.      18.     2728.       0.       6.      229.       0.       12.       3.   2232.50
      .04     3.10     11.94      .96     .045      .030     .045      .000  2227.90  9975.05
  .008343     690.      690.     690.       12        11        0       .00    56.75 10031.80


*SECNO 2170.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2170.000     8.04  2240.44  2240.44      .00  2242.77      2.32      2.57       .04  2235.40
    2746.     388.     2186.     172.      74.      163.      31.       14.       3.   2234.10
      .05     5.27     13.44     5.52     .045      .030     .045      .000  2232.40  9961.17
  .005920     300.      370.     490.       20        14        0       .00    58.93 10020.10


*SECNO 2270.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2270.000     5.03  2252.33  2252.33      .00  2254.25      1.92      3.67       .04  2251.10
    2746.       3.     2695.      47.       2.      240.      13.       17.       4.   2249.50
      .06     2.04     11.21     3.65     .045      .030     .045      .000  2247.30  9953.51
  .008193     530.      530.     530.       20        14        0       .00    71.81 10025.32


*SECNO 2360.000

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2360.000     4.37  2260.87  2260.87      .00  2262.26      1.38      5.20       .05  2259.70
    2746.      40.     2706.       0.      12.      285.       0.       20.       5.   2261.00
      .08     3.39      9.50      .00     .045      .040     .000      .000  2256.50  9960.20
  .015336     475.      475.     475.       16        15        0       .00   111.78 10071.97
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
          QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME   VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE  XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 2450.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2450.000     6.21  2273.21  2273.21      .00  2274.51     1.30     4.95      .01  2272.10
    2746.     691.    1938.     117.     147.     186.      24.      24.       7.   2268.10
      .09     4.69    10.44     4.91     .045     .030     .045     .000  2267.00  9888.41
  .007539     475.     475.     475.       20       11        0      .00   131.90 10020.31


*SECNO 2510.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2510.000     7.64  2279.04  2279.04      .00  2281.37     2.33     2.58      .31  2273.80
    2746.     174.    1951.     621.      31.     142.      79.      26.       7.   2272.60
      .10     5.69    13.73     7.84     .045     .035     .045     .000  2271.40  9974.86
  .008653     320.     320.     320.       20       11        0      .00    54.95 10029.80


SECNO 2570.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2570.000     7.03  2286.53  2286.53      .00  2288.22     1.69     2.92      .06  2284.90
    2746.     171.    2419.     156.      42.     221.      27.      28.       8.   2279.50
      .11     4.04    10.95     5.76     .050     .035     .050     .000  2279.50  9935.17
  .010525     340.     320.     220.       20       15        0      .00    97.11 10032.29


*SECNO 2680.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS    BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


 2680.000     5.89  2301.99  2301.99      .00  2302.99     1.00     6.32      .07  2300.90
    2746.      10.    1282.    1454.       5.     124.     282.      33.      10.   2300.40
      .13     2.25    10.37     5.16     .050     .035     .050     .000  2296.10  9972.70
  .010706     465.     580.     645.       20       10        0      .00   174.60 10147.30


1490 NH CARD USED
*SECNO 2780.000

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2780.000     7.32  2312.52  2312.52      .00  2314.57     2.05     5.93      .31  2313.30
    2746.       0.    2738.       8.      34.     238.       3.      37.      11.   2311.10
      .14      .00    11.49     2.48  999.000     .035     .050     .000  2305.20  9786.76
  .011712     530.     530.     530.       20       11        0      .00   118.31 10040.57


*SECNO 2850.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2850.000     6.49  2320.69  2320.69      .00  2323.19     2.49     3.94      .13  2316.90
    2746.      77.    2635.      34.      18.     204.       9.      39.      12.   2316.10
      .15     4.28    12.91     3.80     .050     .035     .050     .000  2314.20  9963.56
  .009722     370.     370.     370.       20       11        0      .00    50.59 10014.15


*SECNO 2930.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
          CONFLUENCE WITH WILLOW SPRINGS TRIB. 4
          QT VALUES ARE FROM HEC-1 AT CP 17A
 2930.000     4.93  2333.93  2333.93      .00  2335.73     1.79     4.89      .07  2332.10
    2528.      16.    2495.      18.       4.     231.       4.      41.      13.   2331.80
      .16     3.58    10.81     3.95     .045     .040     .045     .000  2329.00  9975.99
  .014425     515.     420.     320.       20       15        0      .00    70.09 10046.08
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  SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
           QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
  TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 2990.000

3265 DIVIDED FLOW

3280 CROSS SECTION   2990.00 EXTENDED       .77 FEET

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2990.000     7.57  2345.77  2345.77      .00  2347.80     2.04     4.03      .07  2340.70
    2528.     420.     1968.     141.     66.     157.      27.      43.      13.   2341.20
      .17     6.37     12.57     5.19    .050     .040     .050     .000  2338.20  9915.70
  .011099     320.      320.     320.      20       14        0      .00    68.45 10027.47


*SECNO 3050.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3050.000     6.35  2357.55  2357.55      .00  2359.38     1.83     3.86      .02  2352.80
    2528.     359.     2011.     158.     63.     170.      36.      45.      14.   2353.70
      .18     5.74     11.85     4.43    .060     .045     .060     .000  2351.20  9967.56
  .013529     340.      320.     200.      20       15        0      .00    77.09 10044.65


*SECNO 3140.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3140.000     5.66  2369.26  2369.26      .00  2370.54     1.28     6.28      .05  2366.00
    2528.    1285.     1163.      80.    229.      97.      16.      48.      15.   2363.60
      .19     5.60     11.93     4.90    .055     .040     .055     .000  2363.60  9898.93
  .012939     475.      475.     475.      20       15        0      .00   124.80 10023.74


1490 NH CARD USED
*SECNO 3230.000

3301 HV CHANGED MORE THAN HVINS
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
          QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3230.000     6.80  2380.60  2380.60      .00  2382.38     1.78     5.71      .15  2376.10
    2528.     333.    1970.     225.      64.     165.     285.      53.      17.   2377.40
      .21     5.19    11.94      .79     .055     .040     .377     .000  2373.80  9948.90
  .010970     480.     480.     480.       20       11        0      .00   194.48 10143.38


*SECNO 3310.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3310.000     6.49  2391.59  2391.59      .00  2393.64     2.05     4.72      .08  2387.90
    2528.      86.    2301.     141.      20.     192.      29.      57.      18.   2387.10
      .22     4.21    11.97     4.81     .055     .040     .055     .000  2385.10  9959.84
  .011537     420.     420.     420.       20        8        0      .00    67.75 10027.59


*SECNO 3390.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3390.000     7.76  2401.76  2401.76      .00  2404.19     2.44     4.92      .11  2398.00
    2528.     179.    2338.      10.      35.     181.       4.      59.      18.   2398.40
      .23     5.16    12.94     2.80     .055     .040     .055     .000  2394.00  9964.93
  .011909     420.     420.     420.       20       11        0      .00    50.08 10015.01


*SECNO 3490.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3490.000     7.41  2413.91  2413.91      .00  2416.26     2.35     5.50      .01  2409.10
    2528.     272.    2223.      33.      51.     171.      10.      62.      19.   2410.60
      .24     5.35    12.99     3.31     .055     .035     .055     .000  2406.50  9970.08
  .009119     530.     530.     530.       20       11        0      .00    53.02 10023.11


*SECNO 3590.000

3301 HV CHANGED MORE THAN HVINS
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
          QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3590.000     9.14  2429.44  2429.44      .00  2432.32     2.87     4.44      .16  2422.40
    2528.     470.    1958.     100.      78.     129.      24.      65.      20.   2421.70
      .25     6.07    15.14     4.25     .055     .035     .055     .000  2420.30  9969.53
  .007731     530.     530.     530.      20       11        0      .00    42.76 10012.29


*SECNO 3680.000
3280 CROSS SECTION   3680.00 EXTENDED       .32 FEET


3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3680.000     8.92  2441.72  2441.72      .00  2443.76     2.04     3.66      .08  2434.00
    2528.     540.    1833.     155.     115.     139.      31.      67.      20.   2434.30
      .26     4.71    13.14     4.97     .055     .040     .055     .000  2432.80  9931.00
  .007536     480.     480.     480.      20        5        0      .00    83.16 10014.16


*SECNO 3810.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
         QT VALUES ARE FROM HEC-1 AT CP 16
 3810.000     4.53  2462.93  2462.93      .00  2464.21     1.27     6.26      .08  2460.30
    1755.     134.    1470.     151.      35.     151.      34.      71.      22.   2459.80
      .28     3.79     9.72     4.43     .055     .040     .055     .000  2458.40  9944.39
  .012256     690.     690.     690.      20        8        0      .00    94.08 10038.46


*SECNO 3940.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3940.000     3.73  2482.63  2482.63      .00  2483.72     1.09     8.95      .02  2480.60
    1755.      80.    1456.     219.      25.     162.      51.      75.      23.   2480.20
      .31     3.19     8.99     4.33     .055     .040     .055     .000  2478.90  9956.21
  .013707     670.     690.     710.      15       16        0      .00   115.10 10071.31
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*SECNO 4040.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4040.000     7.43  2500.83  2500.83      .00  2502.71     1.88     6.34      .24  2497.30
    1755.      32.    1609.     114.       9.     141.      33.      78.      24.   2498.40
      .32     3.55    11.44     3.48     .055     .040     .055     .000  2493.40  9985.51
  .010546     530.     530.     530.       20       17        0      .00    55.03 10040.54


*SECNO 4160.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4160.000     6.35  2516.65  2516.65      .00  2518.44     1.79     6.73      .01  2513.30
    1755.     194.    1535.      26.      45.     135.       8.      80.      25.   2511.30
      .34     4.28    11.38     3.31     .055     .040     .055     .000  2510.30  9953.19
  .010881     610.     630.     610.       20       15        0      .00    57.21 10010.40


 CNO 4240.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4240.000     2.38  2533.48  2533.48      .00  2534.22      .74     6.81      .11  2532.60
    1755.     699.    1053.       3.     120.     140.       2.      82.      26.   2532.90
      .35     5.84     7.53     1.91     .055     .040     .055     .000  2531.10  9933.60
  .025948     440.     420.     400.       20       22        0      .00   190.10 10123.70


*SECNO 4310.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
         CONFLUENCE WITH FLEMMING SPRING
         QT VALUES ARE FROM HEC-1 AT SUBWTRSHD D2
 4310.000     3.29  2543.19  2543.19      .00  2543.87      .67     8.99      .01  2541.70
     626.     168.     458.       0.      52.      62.       0.      84.      28.   2543.20
      .37     3.26     7.45      .00     .065     .050     .000     .000  2539.90  9936.48
  .020405     370.     370.     370.        2       11        0      .00    83.21 10019.69
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
          QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 4380.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4380.000     3.89  2553.39  2553.39      .00  2554.53     1.13     8.91      .14  2552.40
    626.       2.     593.      31.       1.      68.       7.      85.      28.   2551.10
     .38     2.59     8.70     4.75     .065     .060     .065     .000  2549.50  9976.41
  .039733    350.     320.     220.       13       11        0      .00    36.08 10012.49


*SECNO 4490.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4490.000     3.23  2580.73  2580.73      .00  2581.59      .87    22.03      .03  2579.60
    626.      295.     305.      26.      59.      32.       6.      86.      29.   2577.50
     .40     5.00     9.43     4.14     .080     .060     .080     .000  2577.50  9975.88
  .037046    550.     580.     610.       20       15        0      .00    54.25 10030.14


*SECNO 4600.000

3301 HV CHANGED MORE THAN HVINS

 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4600.000     4.26  2615.56  2615.56      .00  2616.99     1.43    20.08      .17  2611.30
    626.       33.     345.     248.       8.      30.      38.      87.      29.   2611.50
     .42     4.19    11.65     6.43     .080     .060     .080     .000  2611.30  9989.28
  .032419    580.     580.     580.        9       11        0      .00    26.12 10015.40


*SECNO 4690.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4690.000     4.18  2672.68  2672.68      .00  2674.04     1.36    10.74      .01  2671.20
    626.        9.     613.       4.       3.      65.       2.      88.      29.   2670.50
     .43     2.74     9.44     2.57     .055     .040     .055     .000  2668.50  9980.82
  .016586    490.     480.     460.       20        5        0      .00    28.75 10009.57


*SECNO 4770.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4770.000     4.11  2720.11  2720.11      .00  2721.44     1.33     6.63      .00  2716.70
     626.     135.     412.      79.      25.      38.      15.      89.      30.   2716.00
      .45     5.44    10.74     5.16     .055     .040     .055     .000  2716.00  9976.72
  .014353     430.     430.     430.       20        5        0      .00    30.18 10006.90


*SECNO 4850.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4850.000     5.45  2754.95  2754.95      .00  2756.44     1.49     5.92      .05  2752.40
     626.      38.     557.      31.      10.      54.       8.      89.      30.   2752.00
      .46     3.96    10.28     4.12     .050     .040     .050     .000  2749.50  9985.45
  .013834     420.     420.     420.       20       11        0      .00    26.50 10011.95


*SECNO 4950.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
          QT VALUES ARE 50% OF SUBWTRSHD D2
 4950.000     2.97  2790.47  2790.47      .00  2791.42      .95     9.32      .05  2791.00
     313.       0.     307.       6.       0.      39.       2.      90.      30.   2789.30
      .48      .00     7.89     2.95     .000     .050     .060     .000  2787.50  9998.56
  .031625     520.     530.     540.       20       11        0      .00    22.70 10021.26


*SECNO 5020.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 5020.000     2.63  2818.03  2818.03      .00  2818.78      .75    14.29      .02  2817.60
     313.       1.     312.       0.       0.      45.       0.      90.      31.   2817.90
      .49     1.43     6.94      .04     .080     .060     .080     .000  2815.40  9991.11
  .048234     370.     370.     370.       10       15        0      .00    32.63 10023.73


*SECNO 5100.000
7185 MINIMUM SPECIFIC ENERGY
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  SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS    BANK ELEV
            QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
  TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
  SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


3720 CRITICAL DEPTH ASSUMED
 5100.000     2.92  2851.72  2851.72      .00  2852.91      1.19     17.74      .13  2850.00
    313.       3.     282.      28.       1.      31.       6.       91.      31.   2848.80
     .51     2.35     9.10     4.63     .080     .060     .080      .000  2848.80  9984.66
  .037409    440.     420.     400.        5        8        0       .00    17.15 10001.81


*SECNO 5180.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 5180.000     4.49  2891.29  2891.29      .00  2892.48      1.19     14.10      .00  2887.50
    313.      73.     173.      67.      16.      16.      14.       91.      31.   2886.80
     .52     4.64    10.99     4.82     .080     .060     .080      .000  2886.80  9987.93
  .030276    420.     420.     420.       20       14        0       .00    18.31 10006.23


*SECNO 5240.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 5240.000     4.26  2941.66  2941.66      .00  2942.89      1.23     10.04      .01  2941.80
    313.       0.     308.       5.       0.      34.       2.       91.      31.   2940.20
     .53      .00     8.97     2.78     .000     .050     .070      .000  2937.40  9998.74
  .032551    320.     320.     320.       20       10        0       .00    14.71 10013.45


*SECNO 5310.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 5310.000     4.35  3006.35  3006.35      .00  3007.74      1.39     10.13      .05  3002.00
    313.      80.     199.      34.      16.      18.       8.       92.      31.   3002.70
     .54     4.93    11.32     4.10     .070     .050     .070      .000  3002.00  9992.57
  .023251    380.     370.     360.       20        8        0       .00    16.39 10008.96
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T1 FLOOD CONTROL DISTRICT OF MARICOPA CO. - LA027815.H2
T2 100-YEAR FLOOD FREQUENCY MODEL
T3 WILLOW SPRINGS WASH (WS.DAT)

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
		4							2188.22	
J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	3		-1							

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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*PROF 3



CCHV=     .100 CEHV=     .300
*SECNO 1780.000
          ****REVISED STREAMFLOWS TAKEN FROM CVCRK43.OUT****
          COMMON SECTION IS SEC. 1780 FROM WILLOW SPR. WASH (HTA)
          STRT W.S. ELEV. FROM HTA FIS
          QT VALUES ARE FROM HEC-1 AT CP 19
 1780.000     8.92  2188.22  2188.07  2188.22  2190.88     2.66      .00      .00  2182.90
    4682.      502.    3953.     227.      96.     281.      46.       0.       0.   2181.70
      .00     5.21    14.08     4.97     .045     .025     .045     .000  2179.30  9954.80
  .003973       0.       0.       0.        0        7        0      .00    76.12 10030.92


*SECNO 1910.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1910.000    10.41  2209.41  2209.41      .00  2212.23     2.82     2.91      .05  2205.10
    4682.      129.    4184.     369.      36.     296.      67.       7.       1.   2204.10
      .01     3.61    14.15     5.48     .045     .025     .045     .000  2199.00  9959.96
   004463      680.     690.     710.       20       11        0      .00    76.36 10036.32


*SECNO 1970.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
          CONFLUENCE WITH WILLOW SPRINGS TRIB. 2
          QT VALUES ARE FROM HEC-1 AT CP 17
 1970.000     6.00  2219.10  2219.10      .00  2220.88     1.78     2.01      .10  2216.50
    3193.       30.    3160.       3.       8.     294.       1.       9.       2.   2217.10
      .02     3.68    10.75     2.23     .050     .035     .050     .000  2213.10  9935.28
  .011975      320.     320.     320.       20       14        0      .00    90.39 10025.68


*SECNO 2100.000
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SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     BANK ELEV
Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA     LEFT/RIGHT
TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN        SSTA
SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID       ENDST


3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2100.000     5.48  2233.38  2233.38      .00  2235.78      2.40      6.67       .19  2230.60
    3193.      29.    3162.       1.       8.     253.        1.       14.        3.   2232.50
      .04     3.45    12.49     1.61     .045     .030      .045      .000   2227.90  9973.99
  .007973     690.     690.     690.       20       11         0       .00     58.91 10032.90


*SECNO 2170.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2170.000     8.57  2240.97  2240.97      .00  2243.48      2.52      2.51       .03  2235.40
    3193.     507.    2473.     213.      88.     175.       36.       16.        4.   2234.10
      .05     5.79    14.12     5.94     .045     .030      .045      .000   2232.40  9959.93
  .005918     300.     370.     490.       20       14         0       .00     60.58 10020.50


SECNO 2270.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2270.000     5.45  2252.75  2252.75      .00  2254.84      2.09      3.60       .04  2251.10
    3193.       8.    3119.      67.       3.     266.       17.       19.        4.   2249.50
      .06     2.43    11.73     3.92     .045     .030      .045      .000   2247.30  9952.55
  .007858     530.     530.     530.       20       14         0       .00     74.13 10026.68


*SECNO 2360.000

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2360.000     4.67  2261.17  2261.17      .00  2262.69      1.51      5.02       .06  2259.70
    3193.      69.    3124.       0.      17.     314.        0.       23.        5.   2261.00
      .07     4.09     9.96      .04     .045     .040      .045      .000   2256.50  9958.82
  .014951     475.     475.     475.       18       15         0       .00    114.36 10073.18
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 2450.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2450.000     6.45  2273.45  2273.45      .00  2274.92     1.47     5.08      .00  2272.10
    3193.     851.    2206.     136.     165.     197.      26.      27.       7.   2268.10
      .09     5.16    11.20     5.22     .045     .030     .045     .000  2267.00  9887.75
  .008018     475.     475.     475.       20       14        0      .00   132.98 10020.73


*SECNO 2510.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2510.000     8.18  2279.58  2279.58      .00  2282.08     2.51     2.64      .31  2273.80
    3193.     233.    2207.     753.      37.     154.      91.      29.       7.   2272.60
      .09     6.24    14.36     8.27     .045     .035     .045     .000  2271.40  9973.19
  .008518     320.     320.     320.       20       11        0      .00    57.78 10030.96


*SECNO 2570.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2570.000     7.48  2286.98  2286.98      .00  2288.73     1.74     2.77      .08  2284.90
    3193.     257.    2760.     175.      60.     246.      31.      31.       8.   2279.50
      .10     4.30    11.23     5.73     .050     .035     .050     .000  2279.50  9926.08
  .009602     340.     320.     220.       20       12        0      .00   106.70 10032.78


*SECNO 2680.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
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 SECNO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q       QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
  TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 2680.000     6.11  2302.21  2302.21      .00  2303.32     1.11     6.14      .06  2300.90
    3193.      17.    1437.    1739.       6.     131.     312.      37.      10.   2300.40
      .12     2.75    10.99     5.58     .050     .035     .050     .000  2296.10  9972.02
  .011156     465.     580.     645.       20       14        0      .00   177.09 10149.11


1490 NH CARD USED
*SECNO 2780.000

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2780.000     7.81  2313.01  2313.01      .00  2315.20     2.18     5.89      .32  2313.30
    3193.       0.    3176.      17.      66.     267.       6.      42.      12.   2311.10
      .14      .00    11.89     3.07  999.000     .035     .050     .000  2305.20  9782.73
  .011064     530.     530.     530.       20       11        0      .00   140.01 10042.97


*SECNO 2850.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2850.000     7.05  2321.25  2321.25      .00  2323.96     2.71     3.76      .16  2316.90
    3193.     109.    3039.      45.      24.     225.      11.      44.      13.   2316.10
      .14     4.60    13.51     4.02     .050     .035     .050     .000  2314.20  9962.16
  .009363     370.     370.     370.       20       11        0      .00    52.46 10014.62


*SECNO 2930.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
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        CONFLUENCE WITH WILLOW SPRINGS TRIB. 4
        QT VALUES ARE FROM HEC-1 AT CP 17A
 2930.000     5.33  2334.33  2334.33      .00  2336.27     1.95     4.70      .08  2332.10
    2932.      26.    2877.      29.       7.     255.       7.      47.      13.   2331.80
      .15     3.98    11.29     4.46     .045     .040     .045     .000  2329.00  9974.95
  .013787     515.     420.     320.       20       15        0      .00    72.87 10047.81


*SECNO 2990.000

3265 DIVIDED FLOW

3280 CROSS SECTION   2990.00 EXTENDED      1.33 FEET

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2990.000     8.13  2346.33  2346.33      .00  2348.40     2.08     3.79      .04  2340.70
    2932.     545.    2203.     184.      85.     171.      34.      49.      14.   2341.20
      .16     6.44    12.85     5.40     .050     .040     .050     .000  2338.20  9915.70
  .010297     320.     320.     320.       20       14        0      .00    76.13 10028.92


*SECNO 3050.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3050.000     6.84  2358.04  2358.04      .00  2359.92     1.88     3.60      .02  2352.80
    2932.     453.    2252.     227.      76.     185.      48.      51.      14.   2353.70
      .17     5.94    12.19     4.76     .060     .045     .060     .000  2351.20  9964.69
  .012770     340.     320.     200.       20       11        0      .00    89.87 10054.55


*SECNO 3140.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3140.000     5.93  2369.53  2369.53      .00  2370.92     1.39     6.18      .05  2366.00
    2932.    1550.    1290.      91.     256.     103.      18.      55.      16.   2363.60
      .18     6.05    12.54     5.12     .055     .040     .055     .000  2363.60  9896.90
  .013273     475.     475.     475.       20       15        0      .00   127.11 10024.01


1490 NH CARD USED
*SECNO 3230.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA     LEFT/RIGHT
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3230.000     7.20  2381.00  2381.00      .00  2382.91      1.91      5.78       .16  2376.10
    2932.     433.     2217.     281.     80.     177.     346.      60.       18.   2377.40
      .20     5.45     12.53      .81    .055     .040     .387     .000  2373.80  9943.85
  .010978     480.      480.     480.      20       11        0      .00   234.81 10178.66


*SECNO 3310.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3310.000     7.04  2392.14  2392.14      .00  2394.25      2.11      4.53       .06  2387.90
    2932.     120.     2604.     208.     27.     212.      44.      64.       19.   2387.10
      .21     4.43     12.26     4.75    .055     .040     .055     .000  2385.10  9958.17
  .010598     420.      420.     420.      20        8        0      .00    77.19 10035.37


*SECNO 3390.000

3301 HV CHANGED MORE THAN HVINS

 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3390.000     8.32  2402.32  2402.32      .00  2404.93      2.61      4.63       .15  2398.00
    2932.     250.     2666.      15.     45.     198.       5.      67.       20.   2398.40
      .22     5.53     13.49     3.04    .055     .040     .055     .000  2394.00  9962.55
  .011480     420.      420.     420.      20       11        0      .00    52.83 10015.38


*SECNO 3490.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3490.000     7.92  2414.42  2414.42      .00  2416.98      2.56      5.37       .01  2409.10
    2932.     349.     2534.      49.     60.     186.      13.      70.       20.   2410.60
      .23     5.81     13.63     3.62    .055     .035     .055     .000  2406.50  9969.27
  .009000     530.      530.     530.      20       11        0      .00    54.77 10024.04


*SECNO 3590.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3590.000     9.84  2430.14  2430.14      .00  2433.19     3.04     4.35      .14  2422.40
    2932.     603.    2205.     124.      93.     140.      28.      73.      21.   2421.70
      .24     6.49    15.75     4.44     .055     .035     .055     .000  2420.30  9968.47
  .007515     530.     530.     530.      20        8        0      .00    44.37 10012.84


*SECNO 3680.000
3280 CROSS SECTION   3680.00 EXTENDED       .85 FEET


3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3680.000     9.45  2442.25  2442.25      .00  2444.35     2.10     3.59      .09  2434.00
    2932.     724.    2019.     189.     145.     148.      36.      76.      22.   2434.30
      .25     4.98    13.61     5.30     .055     .040     .055     .000  2432.80  9931.00
  .007448     480.     480.     480.      20       11        0      .00    83.65 10014.65


*SECNO 3810.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
          QT VALUES ARE FROM HEC-1 AT CP 16
 3810.000     4.85  2463.25  2463.25      .00  2464.58     1.33     6.11      .08  2460.30
    2027.     183.    1650.     194.      46.     164.      41.      81.      23.   2459.80
      .27     3.99    10.05     4.68     .055     .040     .055     .000  2458.40  9940.18
  .011724     690.     690.     690.      20       11        0      .00   100.63 10040.81


*SECNO 3940.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3940.000     3.93  2482.83  2482.83      .00  2484.04     1.21     8.90      .01  2480.60
    2027.     104.    1652.     271.      30.     173.      58.      85.      25.   2480.20
      .30     3.46     9.56     4.67     .055     .040     .055     .000  2478.90  9953.78
  .014206     670.     690.     710.      20       15        0      .00   119.52 10073.30
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*SECNO 4040.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4040.000     7.86  2501.26  2501.26      .00  2503.25     1.99     6.39      .23  2497.30
    2027.      43.     1807.     178.      11.     152.      44.      88.      26.   2498.40
      .31     3.80     11.92     4.05     .055     .040     .055     .000  2493.40  9984.89
  .010355     530.      530.     530.       20       17        0      .00    57.51 10042.40


*SECNO 4160.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4160.000     6.74  2517.04  2517.04      .00  2518.96     1.92     6.62      .01  2513.30
    2027.     267.     1729.      31.      57.     145.       9.      91.      27.   2511.30
      .33     4.71     11.89     3.45     .055     .040     .055     .000  2510.30  9951.51
  .010746     610.      630.     610.       20       15        0      .00    59.10 10010.61


*SECNO 4240.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4240.000     2.54  2533.64  2533.64      .00  2534.44      .80     6.64      .11  2532.60
    2027.     798.     1223.       6.     133.     155.       3.      93.      28.   2532.90
      .34     5.99      7.89     2.18     .055     .040     .055     .000  2531.10  9931.46
  .024746     440.      420.     400.       20       22        0      .00   193.76 10125.22


*SECNO 4310.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
          CONFLUENCE WITH FLEMMING SPRING
          QT VALUES ARE FROM HEC-1 AT SUBWTRSHD D2
 4310.000     3.46  2543.36  2543.36      .00  2544.07      .71     8.66      .01  2541.70
     724.     216.      508.       0.      61.      66.       0.      95.      29.   2543.20
      .36     3.54      7.73      .59     .065     .050     .065     .000  2539.90  9935.04
  .020161     370.      370.     370.        3       11        0      .00    86.88 10021.93
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 4380.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4380.000     4.17  2553.67  2553.67      .00  2554.86     1.19     8.51      .14  2552.40
    724.        4.     679.     41.       1.     76.       8.     96.      30.   2551.10
     .37     2.91     8.94     4.97     .065     .060     .065     .000  2549.50  9975.94
  .036207     350.     320.     220.       13       11        0      .00    37.46 10013.40


*SECNO 4490.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4490.000     3.43  2580.93  2580.93      .00  2581.85      .92    20.98      .03  2579.60
    724.      356.     337.     31.      67.     34.       7.     97.      30.   2577.50
     .39     5.31     9.80     4.30     .080     .060     .080     .000  2577.50  9973.23
  .036897     550.     580.     610.       8       15        0      .00    57.15 10030.38


*SECNO 4600.000

3301 HV CHANGED MORE THAN HVINS

 5 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4600.000     4.57  2615.87  2615.87      .00  2617.42     1.55    20.01      .19  2611.30
    724.       40.     388.     296.       9.     32.      43.     98.      31.   2611.50
     .41     4.38    12.20     6.85     .080     .060     .080     .000  2611.30  9989.01
  .032329     580.     580.     580.       9       11        0      .00    26.48 10015.49


*SECNO 4690.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4690.000     4.46  2672.96  2672.96      .00  2674.44     1.48    10.49      .01  2671.20
    724.       14.     704.       6.       4.     71.       2.     99.      31.   2670.50
     .42     3.02     9.87     2.74     .055     .040     .055     .000  2668.50  9980.00
  .015964     490.     480.     460.       20        5        0      .00    29.77 10009.77


*SECNO 4770.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     BANK ELEV
   Q       QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA     LEFT/RIGHT
  TIME     VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
  SLOPE    XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


3720 CRITICAL DEPTH ASSUMED
 4770.000     4.40  2720.40  2720.40      .00  2721.83     1.43      6.47      .00  2716.70
    724.      165.     464.     96.      29.      41.      17.      100.      31.   2716.00
     .43     5.71     11.23    5.53     .055     .040     .055     .000  2716.00  9975.85
  .014218    430.     430.     430.      20        5        0      .00    31.23 10007.08


*SECNO 4850.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4850.000     5.79  2755.29  2755.29      .00  2756.88     1.58      5.79      .04   2752.40
    724.       53.     630.     41.      12.      59.       9.      101.      32.   2752.00
     .44     4.24     10.69    4.36     .050     .040     .050     .000  2749.50  9984.42
  .013361    420.     420.     420.      20       11        0      .00    28.13 10012.55


*SECNO 4950.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
          QT VALUES ARE 50% OF SUBWTRSHD D2
 4950.000     3.17  2790.67  2790.67      .00  2791.70     1.03      9.00      .06   2791.00
    362.        0.     353.      9.       0.      43.       3.      102.      32.   2789.30
     .46      .00      8.22    3.24     .000     .050     .060     .000  2787.50  9998.46
  .030581    520.     530.     540.      20       11        0      .00    23.38 10021.84


*SECNO 5020.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 5020.000     2.79  2818.19  2818.19      .00  2819.00      .81     13.69      .02   2817.60
    362.        1.     361.      0.       1.      50.       0.      102.      32.   2817.90
     .48     1.72      7.23     .04     .080     .060     .080     .000  2815.40  9990.49
  .045689    370.     370.     370.      10       15        0      .00    33.41 10023.90


*SECNO 5100.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS    BANK ELEV
           QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
  TIME     VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
  SLOPE    XLOBL     XLCH      XLOBR     ITRIAL    IOC       ICONT     CORAR     TOPWID      ENDST


 5100.000     3.18  2851.98  2851.98      .00  2853.27     1.29     16.93      .14  2850.00
    362.       4.     324.      35.       2.      34.       7.     103.      33.   2848.80
     .49     2.53     9.50     4.81     .080     .060     .080     .000  2848.80  9984.46
  .035950    440.     420.     400.        4        8        0      .00    17.72 10002.17


*SECNO 5180.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 5180.000     4.76  2891.56  2891.56      .00  2892.83     1.27     13.84      .00  2887.50
    362.      91.     192.      79.      18.      17.      16.     103.      33.   2886.80
     .50     5.05    11.47     5.02     .080     .060     .080     .000  2886.80  9987.36
  .030316    420.     420.     420.       20       14        0      .00    19.25 10006.61


*SECNO 5240.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 5240.000     4.47  2941.87  2941.87      .00  2943.27     1.40     10.26      .04  2941.80
    362.       0.     355.       7.       0.      37.       2.     103.      33.   2940.20
     .51      .04     9.57     3.12     .070     .050     .070     .000  2937.40  9997.67
  .033949    320.     320.     320.       20       11        0      .00    16.14 10013.81


*SECNO 5310.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 5310.000     4.77  3006.77  3006.77      .00  3008.15     1.38      9.68      .00  3002.00
    362.      96.     223.      43.      19.      19.      10.     104.      33.   3002.70
     .53     4.94    11.43     4.16     .070     .050     .070     .000  3002.00  9991.84
  .020695    380.     370.     360.       20        8        0      .00    17.65 10009.49
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      FLOOD CONTROL DISTRICT OF MARICOPA CO. - LA027815.H2
      500-YEAR FLOOD FREQUENCY MODEL
T3    WILLOW SPRINGS WASH (WS.DAT)

J1  ICHECK   INQ     NINV    IDIR    STRT    METRIC  HVINS   Q       WSEL    FQ

              5                                                   2189.63

J2  NPROF    IPLOT   PRFVS   XSECV   XSECH   FN      ALLDC   IBW     CHNIM   ITRACE

    15               -1
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*PROF 4



CCHV=     .100 CEHV=     .300
*SECNO 1780.000
          ****REVISED STREAMFLOWS TAKEN FROM CVCRK43.OUT****
          COMMON SECTION IS SEC. 1780 FROM WILLOW SPR. WASH (HTA)
          STRT W.S. ELEV. FROM HTA FIS
          QT VALUES ARE FROM HEC-1 AT CP 19
 1780.000    10.33  2189.63      .00  2189.63  2192.30     2.67      .00      .00  2182.90
    5877.     760.    4778.     339.     135.     334.      63.       0.       0.   2181.70
      .00     5.62    14.31     5.39     .045     .025     .045     .000  2179.30  9952.74
  .003257       0.       0.       0.        0        0        0      .00    78.94 10031.68


*SECNO 1910.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1910.000    11.41  2210.41  2210.41      .00  2213.57     3.16     2.57      .15  2205.10
    5877.     242.    5110.     525.      55.     338.      86.       8.       1.   2204.10
      .01     4.43    15.14     6.08     .045     .025     .045     .000  2199.00  9955.93
  .004281     680.     690.     710.       20        8        0      .00    83.09 10039.02


*SECNO 1970.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
          CONFLUENCE WITH WILLOW SPRINGS TRIB. 2
          QT VALUES ARE FROM HEC-1 AT CP 17
 1970.000     6.60  2219.70  2219.70      .00  2221.70     2.00     1.90      .12  2216.50
    3978.      50.    3922.       6.      12.     344.       2.      11.       2.   2217.10
      .02     4.05    11.41     2.54     .050     .035     .050     .000  2213.10  9933.83
  .010973     320.     320.     320.       20       11        0      .00    92.26 10026.09


*SECNO 2100.000
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2100.000     6.30  2234.20  2234.20      .00  2236.90     2.70     6.14      .21  2230.60
    3978.      56.    3914.       8.      14.     295.       3.      16.       3.   2232.50
      .04     3.93    13.28     2.39     .045     .030     .045     .000  2227.90  9972.18
  .007355     690.     690.     690.       20        8        0      .00    62.58 10034.76


*SECNO 2170.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2170.000     9.40  2241.80  2241.80      .00  2244.63     2.83     2.42      .04  2235.40
    3978.     727.    2963.     288.     111.     195.      44.      19.       4.   2234.10
      .04     6.54    15.18     6.56     .045     .030     .045     .000  2232.40  9957.94
  .005919     300.     370.     490.       20       14        0      .00    63.21 10021.14


 CNO 2270.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2270.000     6.21  2253.51  2253.51      .00  2255.81     2.31     3.42      .05  2251.10
    3978.      20.    3847.     111.       7.     311.      26.      23.       5.   2249.50
      .06     3.11    12.37     4.29     .045     .030     .045     .000  2247.30  9950.96
  .007078     530.     530.     530.       20       14        0      .00    78.16 10029.12


*SECNO 2360.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2360.000     5.17  2261.67  2261.67      .00  2263.38     1.72     4.62      .06  2259.70
    3978.     131.    3845.       1.      26.     361.       1.      27.       6.   2261.00
      .07     5.00    10.66     1.84     .045     .040     .045     .000  2256.50  9956.58
  .014220     475.     475.     475.       20       15        0      .00   118.22 10074.80
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 2450.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2450.000     6.92  2273.92  2273.92     .00  2275.59     1.67     4.96     .00  2272.10
    3978.    1163.    2646.     170.    200.     220.      31.      32.      7.   2268.10
      .08     5.80    12.03     5.51    .045     .030     .045     .000  2267.00  9886.63
  .007988     475.     475.     475.      20       14        0      .00   134.96 10021.59


*SECNO 2510.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2510.000     9.04  2280.44  2280.44     .00  2283.23     2.79     2.61     .34  2273.80
    3978.     348.    2640.     990.     50.     172.     111.      35.      8.   2272.60
      .09     6.92    15.32     8.89    .045     .035     .045     .000  2271.40  9970.52
  .008320     320.     320.     320.      20       11        0      .00    62.31 10032.83

SECNO 2570.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2570.000     8.04  2287.54  2287.54     .00  2289.53     1.99     2.73     .08  2284.90
    3978.     413.    3353.     212.     87.     276.      35.      37.      8.   2279.50
      .10     4.73    12.13     6.00    .050     .035     .050     .000  2279.50  9914.82
  .009564     340.     320.     220.      20       11        0      .00   118.57 10033.39


*SECNO 2680.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS    BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


 2680.000     6.46  2302.56  2302.56      .00  2303.85     1.29     6.30      .07  2300.90
    3978.      32.    1700.    2245.       9.     142.     360.      44.      10.   2300.40
      .12     3.46    11.97     6.25     .050     .035     .050     .000  2296.10  9970.93
  .011835     465.     580.     645.       20       16        0      .00   181.07 10152.00


1490 NH CARD USED
*SECNO 2780.000

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2780.000     8.57  2313.77  2313.77      .00  2316.20     2.43     5.81      .34  2313.30
    3978.       1.    3931.      46.     132.     313.      13.      50.      13.   2311.10
      .13      .01    12.57     3.65   28.615     .035     .050     .000  2305.20  9779.42
  .010186     530.     530.     530.       20       11        0      .00   174.72 10048.53


*SECNO 2850.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2850.000     7.98  2322.18  2322.18      .00  2325.22     3.04     3.50      .19  2316.90
    3978.     177.    3733.      67.      35.     259.      15.      53.      14.   2316.10
      .14     5.07    14.40     4.35     .050     .035     .050     .000  2314.20  9959.83
  .008786     370.     370.     370.       20       11        0      .00    55.57 10015.40


*SECNO 2930.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
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        CONFLUENCE WITH WILLOW SPRINGS TRIB. 4
        QT VALUES ARE FROM HEC-1 AT CP 17A
 2930.000     5.97  2334.97  2334.97      .00  2337.16     2.19     4.40      .09  2332.10
    3640.      50.    3533.      57.      11.     294.      11.      56.      14.   2331.80
      .14     4.56    12.02     4.97     .045     .040     .045     .000  2329.00  9973.25
  .012896     515.     420.     320.       20       15        0      .00    77.40 10050.65


*SECNO 2990.000

3265 DIVIDED FLOW

3280 CROSS SECTION   2990.00 EXTENDED      2.10 FEET

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2990.000     8.90  2347.10  2347.10      .00  2349.31     2.21     3.59      .01  2340.70
    3640.     785.    2594.     261.     117.     192.      45.      58.      15.   2341.20
      .15     6.73    13.53     5.79     .050     .040     .050     .000  2338.20  9915.70
  .009825     320.     320.     320.       20       14        0      .00    88.44 10030.92


*SECNO 3050.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3050.000     7.61  2358.81  2358.81      .00  2360.75     1.94     3.35      .03  2352.80
    3640.     631.    2636.     373.     101.     209.      76.      61.      15.   2353.70
      .16     6.24    12.64     4.89     .060     .045     .060     .000  2351.20  9960.35
  .011668     340.     320.     200.       20       15        0      .00   109.88 10070.23


*SECNO 3140.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3140.000     6.37  2369.97  2369.97      .00  2371.53     1.56     5.98      .04  2366.00
    3640.    2025.    1503.     112.     302.     112.      21.      65.      17.   2363.60
      .17     6.71    13.44     5.45     .055     .040     .055     .000  2363.60  9893.59
  .013637     475.     475.     475.       20       15        0      .00   130.88 10024.46


1490 NH CARD USED
*SECNO 3230.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3230.000     7.92  2381.72  2381.72      .00  2383.74     2.02     5.68      .14  2376.10
    3640.     644.    2612.     383.     112.     199.     475.      72.      19.   2377.40
      .19     5.76    13.15      .81     .055     .040     .414     .000  2373.80  9935.01
  .010379     480.     480.     480.       20       11        0      .00   263.72 10198.72
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
          QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*SECNO 3310.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3310.000     7.75  2392.85  2392.85     .00  2395.20     2.35     4.37      .10  2387.90
    3640.     179.    3123.     338.     37.     238.      65.      77.      21.   2387.10
      .20     4.87    13.12     5.22    .055     .040     .055     .000  2385.10  9956.05
  .010409     420.     420.     420.      20        5        0      .00    82.15 10038.20


*SECNO 3390.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3390.000     9.21  2403.21  2403.21     .00  2406.10     2.89     4.48      .16  2398.00
    3640.     392.    3222.      26.     65.     225.       8.      81.      21.   2398.40
      .21     6.06    14.34     3.40    .055     .040     .055     .000  2394.00  9958.76
  .010934     420.     420.     420.      20       11        0      .00    57.21 10015.97


SECNO 3490.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3490.000     8.85  2415.35  2415.35     .00  2418.13     2.77     5.02      .01  2409.10
    3640.     499.    3054.      87.     78.     213.      21.      84.      22.   2410.60
      .22     6.37    14.34     4.14    .055     .035     .055     .000  2406.50  9967.77
  .008298     530.     530.     530.      20        8        0      .00    58.68 10026.45


*SECNO 3590.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3590.000    10.80  2431.10  2431.10     .00  2434.58     3.48     4.24      .21  2422.40
    3640.     833.    2639.     168.    115.     155.      35.      88.      23.   2421.70
      .23     7.25    17.07     4.84    .055     .035     .055     .000  2420.30  9967.03
  .007732     530.     530.     530.      20       11        0      .00    46.56 10013.59
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 3680.000
3280 CROSS SECTION   3680.00 EXTENDED      1.55 FEET


3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3680.000    10.15  2442.95  2442.95     .00  2445.28     2.33     3.73      .11  2434.00
    3640.    1046.    2347.     247.    186.     160.      42.      92.      23.   2434.30
      .24     5.62    14.67     5.87    .055     .040     .055     .000  2432.80  9931.00
  .007816     480.     480.     480.      20       11        0      .00    84.30 10015.30


*SECNO 3810.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
        QT VALUES ARE FROM HEC-1 AT CP 16
 3810.000     5.29  2463.69  2463.69     .00  2465.16     1.47     6.28      .09  2460.30
    2502.     278.    1955.     269.     62.     182.      53.      97.      25.   2459.80
      .26     4.51    10.73     5.09    .055     .040     .055     .000  2458.40  9936.45
  .011622     690.     690.     690.      20       11        0      .00   107.61 10044.06


*SECNO 3940.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3940.000     4.39  2483.29  2483.29     .00  2484.55     1.26     8.39      .02  2480.60
    2502.     169.    1954.     378.     44.     198.      76.     102.      27.   2480.20
      .28     3.86     9.89     4.95    .055     .040     .055     .000  2478.90  9948.15
  .012713     670.     690.     710.      20       15        0      .00   129.72 10077.88


*SECNO 4040.000
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3301 HV CHANGED MORE THAN HVINS
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
          QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME   VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE  XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4040.000     8.53  2501.93  2501.93      .00  2504.11     2.18     6.01      .28  2497.30
    2502.      64.    2137.     300.      15.     169.      62.     106.      28.   2498.40
      .29     4.18    12.68     4.82     .055     .040     .055     .000  2493.40  9983.93
  .010187     530.     530.     530.      20       17        0      .00    61.33 10045.26


*SECNO 4160.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4160.000     7.39  2517.69  2517.69      .00  2519.80     2.10     6.46      .01  2513.30
    2502.     409.    2052.      40.      77.     163.      11.     109.      29.   2511.30
      .31     5.33    12.61     3.65     .055     .040     .055     .000  2510.30  9948.75
  .010417     610.     630.     610.      20       15        0      .00    62.22 10010.97


*SECNO 4240.000

3301 HV CHANGED MORE THAN HVINS

 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4240.000     2.79  2533.89  2533.89      .00  2534.80      .90     6.35      .12  2532.60
    2502.     973.    1517.      12.     156.     180.       5.     112.      30.   2532.90
      .33     6.25     8.43     2.57     .055     .040     .055     .000  2531.10  9927.97
  .023163     440.     420.     400.      20       18        0      .00   199.71 10127.68


*SECNO 4310.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
          CONFLUENCE WITH FLEMMING SPRING
          QT VALUES ARE FROM HEC-1 AT SUBWTRSHD D2
 4310.000     3.70  2543.60  2543.60      .00  2544.38      .79     8.30      .01  2541.70
     897.     301.     595.       1.      75.      72.       1.     114.      31.   2543.20
      .34     4.00     8.28     1.11     .065     .050     .065     .000  2539.90  9932.94
  .020528     370.     370.     370.       4       11        0      .00    92.36 10025.30
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 4380.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4380.000     4.55  2554.05  2554.05      .00  2555.38     1.33     8.38      .16  2552.40
    897.       8.     828.      62.       2.      87.      11.     115.      32.   2551.10
     .35     3.37     9.50     5.51     .065     .060     .065     .000  2549.50  9975.28
  .034163     350.     320.     220.       20       11        0      .00    40.35 10015.63


*SECNO 4490.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4490.000     3.73  2581.23  2581.23      .00  2582.25     1.02    20.40      .03  2579.60
    897.     467.     392.      39.      81.      38.       9.     117.      32.   2577.50
     .37     5.77    10.42     4.57     .080     .060     .080     .000  2577.50  9970.34
  .037034     550.     580.     610.        9       15        0      .00    60.41 10030.75


CNO 4600.000

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4600.000     5.07  2616.37  2616.37      .00  2618.13     1.76    20.06      .22  2611.30
    897.      53.     461.     384.      11.      35.      51.     118.      33.   2611.50
     .39     4.70    13.08     7.53     .080     .060     .080     .000  2611.30  9988.58
  .032360     580.     580.     580.       10       11        0      .00    27.07 10015.64


*SECNO 4690.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4690.000     4.97  2673.47  2673.47      .00  2675.09     1.62     9.90      .01  2671.20
    897.      25.     862.       9.       7.      83.       3.     119.      33.   2670.50
     .40     3.40    10.39     2.95     .055     .040     .055     .000  2668.50  9978.53
  .014478     490.     480.     460.       20        8        0      .00    31.60 10010.13
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*SECNO 4770.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4770.000     4.85  2720.85  2720.85      .00  2722.46     1.62     6.17      .00  2716.70
    897.      218.     553.     126.      35.     46.      21.     120.      34.   2716.00
     .41     6.15    12.05     6.10     .055    .040     .055     .000  2716.00  9974.47
  .014214    430.     430.     430.       20       5        0      .00    32.88 10007.35


*SECNO 4850.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4850.000     6.35  2755.85  2755.85      .00  2757.58     1.73     5.65      .03  2752.40
    897.       82.     754.      61.      18.     67.      13.     121.      34.   2752.00
     .42     4.66    11.33     4.72     .050    .040     .050     .000  2749.50  9982.79
  .012765    420.     420.     420.       20      11        0      .00    30.73 10013.52


*SECNO 4950.000

 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
          QT VALUES ARE 50% OF SUBWTRSHD D2
 4950.000     3.50  2791.00  2791.00      .00  2792.16     1.16     8.62      .06  2791.00
    448.        0.     433.      15.       0.     49.       4.     122.      34.   2789.30
     .44      .00     8.76     3.67     .000    .050     .060     .000  2787.50  9998.29
  .029453    520.     530.     540.       20      11        0      .00    24.47 10022.76


*SECNO 5020.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 5020.000     3.04  2818.44  2818.44      .00  2819.36      .92    13.06      .02  2817.60
    448.        3.     445.       0.       1.     58.       0.     122.      35.   2817.90
     .45     2.11     7.73     1.29     .080    .060     .080     .000  2815.40  9989.50
  .043088    370.     370.     370.       12      15        0      .00    34.65 10024.16
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 5100.000

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 5100.000     3.59  2852.39  2852.39      .00  2853.85     1.46    16.14      .16  2850.00
     448.       6.     395.      47.       2.      39.       9.     123.      35.   2848.80
      .47     2.81    10.17     5.10     .080     .060     .080     .000  2848.80  9984.14
  .034597     440.     420.     400.        8       11        0      .00    18.60 10002.74


*SECNO 5180.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 5180.000     5.21  2892.01  2892.01      .00  2893.39     1.37    13.46      .01  2887.50
     448.     124.     224.     100.      22.      18.      19.     123.      35.   2886.80
      .48     5.60    12.13     5.28     .080     .060     .080     .000  2886.80  9986.43
  .029763     420.     420.     420.       20       11        0      .00    20.81 10007.24


CNO 5240.000
5 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 5240.000     5.18  2942.58  2942.58      .00  2943.86     1.27     8.52      .01  2941.80
     448.       8.     425.      15.       4.      46.       5.     124.      35.   2940.20
      .49     1.76     9.27     3.32     .070     .050     .070     .000  2937.40  9987.73
  .023937     320.     320.     320.       20        5        0      .00    27.23 10014.96


*SECNO 5310.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 5310.000     5.27  3007.27  3007.27      .00  3008.76     1.48     8.08      .06  3002.00
     448.     130.     261.      58.      24.      22.      13.     124.      35.   3002.70
      .50     5.45    12.04     4.41     .070     .050     .070     .000  3002.00  9990.91
  .019945     380.     370.     360.       20        5        0      .00    19.21 10010.12
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THIS RUN EXECUTED 4/10/90 16:34:32

****
HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989

ERROR CORR - 01,02,03
MODIFICATION -
****

NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

WILLOW SPRINGS WASH (WS.

SUMMARY PRINTOUT

	SECNO	CWSEL	Q	DEPTH	VLOB	VCH	VROB	QLOB	QCH	QROB	TOPWID	10*KS	DIFWSX
	1780.000	2186.03	2652.00	6.73	3.80	12.18	3.58	162.37	2413.38	76.26	69.04	47.28	.00
	1780.000	2187.68	4004.00	8.38	4.73	13.20	4.49	388.87	3438.11	177.02	75.04	38.63	.00
	1780.000	2188.22	4682.00	8.92	5.21	14.08	4.97	502.09	3952.55	227.36	76.12	39.73	.00
	1780.000	2189.63	5877.00	10.33	5.62	14.31	5.39	760.22	4777.85	338.93	78.94	32.57	.00
*	1910.000	2207.32	2652.00	8.32	2.49	12.04	3.85	23.67	2504.97	123.36	66.33	51.61	21.29
	1910.000	2208.68	4004.00	9.68	3.32	13.74	5.10	82.43	3643.46	278.11	72.87	48.61	21.00
	1910.000	2209.41	4682.00	10.41	3.61	14.15	5.48	129.40	4183.86	368.74	76.36	44.63	21.19
*	1910.000	2210.41	5877.00	11.41	4.43	15.14	6.08	241.59	5110.13	525.28	83.09	42.81	20.78
*	1970.000	2218.00	1835.00	4.90	2.74	9.03	1.40	7.45	1827.16	.39	86.95	139.03	10.68
*	1970.000	2218.76	2746.00	5.66	3.42	10.26	2.01	21.17	2722.93	1.90	89.32	125.10	10.07
*	1970.000	2219.10	3193.00	6.00	3.68	10.75	2.23	30.28	3159.64	3.07	90.39	119.75	9.69
*	1970.000	2219.70	3978.00	6.60	4.05	11.41	2.54	50.37	3921.72	5.91	92.26	109.73	9.29
*	2100.000	2231.81	1835.00	3.91	2.13	10.55	.00	3.43	1831.57	.00	52.92	91.86	13.81
*	2100.000	2232.89	2746.00	4.99	3.10	11.94	.96	17.97	2727.86	.17	56.75	83.43	14.14
*	2100.000	2233.38	3193.00	5.48	3.45	12.49	1.61	29.29	3162.30	1.41	58.91	79.73	14.27
*	2100.000	2234.20	3978.00	6.30	3.93	13.28	2.39	56.02	3914.13	7.85	62.58	73.55	14.49
*	2170.000	2239.19	1835.00	6.79	3.91	11.90	4.40	167.67	1576.66	90.67	54.58	60.97	7.38
*	2170.000	2240.44	2746.00	8.04	5.27	13.44	5.52	387.89	2186.01	172.11	58.93	59.20	7.55
*	2170.000	2240.97	3193.00	8.57	5.79	14.12	5.94	506.52	2473.07	213.41	60.58	59.18	7.59
*	2170.000	2241.80	3978.00	9.40	6.54	15.18	6.56	727.10	2962.75	288.16	63.21	59.19	7.60
*	2270.000	2251.38	1835.00	4.08	.03	9.89	2.94	.00	1818.22	16.78	66.61	91.34	12.19
*	2270.000	2252.33	2746.00	5.03	2.04	11.21	3.65	3.49	2695.42	47.09	71.81	81.93	11.88
*	2270.000	2252.75	3193.00	5.45	2.43	11.73	3.92	7.51	3118.64	66.85	74.13	78.58	11.78
*	2270.000	2253.51	3978.00	6.21	3.11	12.37	4.29	20.43	3846.68	110.89	78.16	70.78	11.71
*	2360.000	2260.10	1835.00	3.60	1.50	8.62	.00	2.20	1832.80	.00	98.79	176.65	8.72
*	2360.000	2260.87	2746.00	4.37	3.39	9.50	.00	39.83	2706.17	.00	111.78	153.36	8.55
*	2360.000	2261.17	3193.00	4.67	4.09	9.96	.04	69.30	3123.69	.00	114.36	149.51	8.42
*	2360.000	2261.67	3978.00	5.17	5.00	10.66	1.84	131.25	3845.41	1.34	118.22	142.20	8.16

	SECNO	CWSEL	Q	DEPTH	VLOB	VCH	VROB	QLOB	QCH	QROB	TOPWID	10*KS	DIFWSX
*	2450.000	2272.49	1835.00	5.49	3.72	9.31	4.55	353.01	1402.20	79.79	128.01	79.31	12.39
*	2450.000	2273.21	2746.00	6.21	4.69	10.44	4.91	691.10	1938.08	116.83	131.90	75.39	12.34
*	2450.000	2273.45	3193.00	6.45	5.16	11.20	5.22	851.32	2205.97	135.71	132.98	80.18	12.27
*	2450.000	2273.92	3978.00	6.92	5.80	12.03	5.51	1162.66	2645.54	169.79	134.96	79.88	12.25
*	2510.000	2277.75	1835.00	6.35	4.68	12.21	6.68	81.25	1396.41	357.33	49.02	91.46	5.26
*	2510.000	2279.04	2746.00	7.64	5.69	13.73	7.84	174.00	1951.32	620.68	54.95	86.53	5.82
*	2510.000	2279.58	3193.00	8.18	6.24	14.36	8.27	233.48	2207.01	752.50	57.78	85.18	6.13
*	2510.000	2280.44	3978.00	9.04	6.92	15.32	8.89	348.46	2639.74	989.80	62.31	83.20	6.52
*	2570.000	2285.72	1835.00	6.22	2.96	9.44	5.32	60.14	1662.43	112.42	83.82	105.86	7.97
*	2570.000	2286.53	2746.00	7.03	4.04	10.95	5.76	171.15	2419.25	155.60	97.11	105.25	7.50
*	2570.000	2286.98	3193.00	7.48	4.30	11.23	5.73	257.36	2760.22	175.42	106.70	96.02	7.41
*	2570.000	2287.54	3978.00	8.04	4.73	12.13	6.00	412.80	3353.12	212.08	118.57	95.64	7.10
*	2680.000	2301.36	1835.00	5.26	1.18	9.49	4.33	.95	975.99	858.06	165.28	114.45	15.64
*	2680.000	2301.99	2746.00	5.89	2.25	10.37	5.16	10.20	1281.78	1454.02	174.60	107.06	15.46
*	2680.000	2302.21	3193.00	6.11	2.75	10.99	5.58	17.27	1436.85	1738.87	177.09	111.56	15.23
*	2680.000	2302.56	3978.00	6.46	3.46	11.97	6.25	32.33	1700.43	2245.24	181.07	118.35	15.02
*	2780.000	2311.47	1835.00	6.27	.00	10.31	1.06	.00	1834.78	.22	64.86	130.43	10.11
*	2780.000	2312.52	2746.00	7.32	.00	11.49	2.48	.00	2738.46	7.54	118.31	117.12	10.53
*	2780.000	2313.01	3193.00	7.81	.00	11.89	3.07	.01	3175.81	17.18	140.01	110.64	10.80
*	2780.000	2313.77	3978.00	8.57	.01	12.57	3.65	.92	3930.61	46.47	174.72	101.86	11.21
*	2850.000	2319.42	1835.00	5.22	3.44	11.43	3.23	27.45	1792.62	14.93	46.32	108.44	7.95
*	2850.000	2320.69	2746.00	6.49	4.28	12.91	3.80	77.32	2635.09	33.59	50.59	97.22	8.17
*	2850.000	2321.25	3193.00	7.05	4.60	13.51	4.02	109.42	3038.83	44.75	52.46	93.63	8.24
*	2850.000	2322.18	3978.00	7.98	5.07	14.40	4.35	177.34	3733.27	67.39	55.57	87.86	8.41
*	2930.000	2333.03	1698.00	4.03	2.42	9.62	2.83	2.75	1691.09	4.16	65.64	164.06	13.61
*	2930.000	2333.93	2528.00	4.93	3.58	10.81	3.95	15.76	2494.65	17.59	70.09	144.25	13.24
*	2930.000	2334.33	2932.00	5.33	3.98	11.29	4.46	25.95	2876.77	29.28	72.87	137.87	13.08
*	2930.000	2334.97	3640.00	5.97	4.56	12.02	4.97	49.50	3533.36	57.13	77.40	128.96	12.80
*	2990.000	2344.60	1698.00	6.40	5.54	11.30	4.43	209.32	1421.95	66.73	54.88	120.04	11.58
*	2990.000	2345.77	2528.00	7.57	6.37	12.57	5.19	419.63	1967.79	140.58	68.45	110.99	11.84
*	2990.000	2346.33	2932.00	8.13	6.44	12.85	5.40	544.64	2203.03	184.33	76.13	102.97	12.00
*	2990.000	2347.10	3640.00	8.90	6.73	13.53	5.79	784.57	2593.94	261.48	88.44	98.25	12.13
*	3050.000	2356.41	1698.00	5.21	5.04	10.81	3.71	180.16	1452.30	65.55	64.08	153.58	11.81
*	3050.000	2357.55	2528.00	6.35	5.74	11.85	4.43	358.96	2010.56	158.48	77.09	135.29	11.78
*	3050.000	2358.04	2932.00	6.84	5.94	12.19	4.76	453.46	2251.66	226.89	89.87	127.70	11.71
*	3050.000	2358.81	3640.00	7.61	6.24	12.64	4.89	630.57	2636.17	373.25	109.88	116.68	11.72
*	3140.000	2368.73	1698.00	5.13	4.37	9.97	4.15	778.01	864.62	55.37	120.29	105.61	12.32
*	3140.000	2369.26	2528.00	5.66	5.60	11.93	4.90	1285.48	1162.88	79.64	124.80	129.39	11.71
*	3140.000	2369.53	2932.00	5.93	6.05	12.54	5.12	1550.25	1290.40	91.35	127.11	132.73	11.49
*	3140.000	2369.97	3640.00	6.37	6.71	13.44	5.45	2024.56	1503.31	112.13	130.88	136.37	11.16

	SECNO	CWSEL	Q	DEPTH	VLOB	VCH	VROB	QLOB	QCH	QROB	TOPWID	10*KS	DIFWSX
*	3230.000	2379.61	1698.00	5.81	4.46	10.57	.62	158.02	1430.17	109.80	155.53	111.84	10.88
*	3230.000	2380.60	2528.00	6.80	5.19	11.94	.79	333.35	1970.02	224.63	194.48	109.70	11.34
*	3230.000	2381.00	2932.00	7.20	5.45	12.53	.81	433.25	2217.49	281.26	234.81	109.78	11.47
*	3230.000	2381.72	3640.00	7.92	5.76	13.15	.81	644.46	2612.06	383.48	263.72	103.79	11.75
*	3310.000	2390.35	1698.00	5.25	3.48	10.88	4.18	31.45	1604.34	62.21	52.80	135.70	10.74
*	3310.000	2391.59	2528.00	6.49	4.21	11.97	4.81	85.87	2300.91	141.22	67.75	115.37	10.99
*	3310.000	2392.14	2932.00	7.04	4.43	12.26	4.75	119.66	2604.24	208.10	77.19	105.98	11.14
*	3310.000	2392.85	3640.00	7.75	4.87	13.12	5.22	179.03	3122.55	338.42	82.15	104.09	11.13
*	3390.000	2400.45	1698.00	6.45	4.03	11.56	2.12	62.34	1632.71	2.95	43.69	132.00	10.10
*	3390.000	2401.76	2528.00	7.76	5.16	12.94	2.80	179.22	2338.39	10.38	50.08	119.09	10.17
*	3390.000	2402.32	2932.00	8.32	5.53	13.49	3.04	250.19	2666.42	15.38	52.83	114.80	10.18
*	3390.000	2403.21	3640.00	9.21	6.06	14.34	3.40	391.95	3222.10	25.95	57.21	109.34	10.36
*	3490.000	2412.75	1698.00	6.25	4.07	11.35	2.51	126.66	1560.60	10.73	49.03	93.13	12.30
*	3490.000	2413.91	2528.00	7.41	5.35	12.99	3.31	271.74	2222.77	33.49	53.02	91.19	12.15
*	3490.000	2414.42	2932.00	7.92	5.81	13.63	3.62	349.18	2534.14	48.68	54.77	90.00	12.10
*	3490.000	2415.35	3640.00	8.85	6.37	14.34	4.14	499.14	3054.16	86.70	58.68	82.98	12.15
*	3590.000	2427.76	1698.00	7.46	5.18	13.65	3.77	230.10	1413.39	54.51	37.29	84.34	15.01
*	3590.000	2429.44	2528.00	9.14	6.07	15.14	4.25	470.32	1957.52	100.16	42.76	77.31	15.53
*	3590.000	2430.14	2932.00	9.84	6.49	15.75	4.44	602.84	2204.67	124.49	44.37	75.15	15.73
*	3590.000	2431.10	3640.00	10.80	7.25	17.07	4.84	833.31	2638.66	168.03	46.56	77.32	15.74
*	3680.000	2439.95	1698.00	7.15	4.96	12.81	4.42	210.49	1407.22	80.29	45.37	98.40	12.18
	3680.000	2441.72	2528.00	8.92	4.71	13.14	4.97	539.52	1833.12	155.36	83.16	75.36	12.28
	3680.000	2442.25	2932.00	9.45	4.98	13.61	5.30	724.07	2018.59	189.33	83.65	74.48	12.10
*	3680.000	2442.95	3640.00	10.15	5.62	14.67	5.87	1045.73	2347.34	246.93	84.30	78.16	11.85
*	3810.000	2462.21	1189.00	3.81	3.27	8.77	3.53	55.38	1062.83	70.79	78.38	133.91	22.26
*	3810.000	2462.93	1755.00	4.53	3.79	9.72	4.43	134.16	1469.77	151.07	94.08	122.56	21.21
*	3810.000	2463.25	2027.00	4.85	3.99	10.05	4.68	182.54	1650.47	193.98	100.63	117.24	21.00
*	3810.000	2463.69	2502.00	5.29	4.51	10.73	5.09	278.16	1955.23	268.61	107.61	116.22	20.74
*	3940.000	2482.03	1189.00	3.13	2.64	8.10	3.58	32.72	1046.57	109.71	101.75	150.21	19.82
*	3940.000	2482.63	1755.00	3.73	3.19	8.99	4.33	79.92	1456.28	218.80	115.10	137.07	19.70
*	3940.000	2482.83	2027.00	3.93	3.46	9.56	4.67	104.49	1651.68	270.83	119.52	142.06	19.58
*	3940.000	2483.29	2502.00	4.39	3.86	9.89	4.95	169.33	1954.38	378.29	129.72	127.13	19.60
*	4040.000	2499.52	1189.00	6.12	2.96	10.84	2.13	10.46	1163.51	15.03	41.25	135.96	17.49
*	4040.000	2500.83	1755.00	7.43	3.55	11.44	3.48	31.88	1608.91	114.21	55.03	105.46	18.20
*	4040.000	2501.26	2027.00	7.86	3.80	11.92	4.05	42.96	1806.53	177.51	57.51	103.55	18.43
*	4040.000	2501.93	2502.00	8.53	4.18	12.68	4.82	64.49	2137.14	300.36	61.33	101.87	18.64
*	4160.000	2515.65	1189.00	5.35	3.20	10.24	3.00	63.07	1110.54	15.39	51.82	117.77	16.13
*	4160.000	2516.65	1755.00	6.35	4.28	11.38	3.31	193.85	1535.48	25.66	57.21	108.81	15.82
*	4160.000	2517.04	2027.00	6.74	4.71	11.89	3.45	267.04	1729.10	30.86	59.10	107.46	15.78
*	4160.000	2517.69	2502.00	7.39	5.33	12.61	3.65	409.20	2052.32	40.47	62.22	104.17	15.77

	SECNO	CWSEL	Q	DEPTH	VLOB	VCH	VROB	QLOB	QCH	QROB	TOPWID	10*KS	DIFWSX
*	4240.000	2533.14	1189.00	2.04	5.43	6.59	1.11	493.57	695.12	.30	181.92	289.15	17.49
*	4240.000	2533.48	1755.00	2.38	5.84	7.53	1.91	699.07	1052.75	3.18	190.10	259.48	16.84
*	4240.000	2533.64	2027.00	2.54	5.99	7.89	2.18	798.30	1222.88	5.82	193.76	247.46	16.60
*	4240.000	2533.89	2502.00	2.79	6.25	8.43	2.57	972.68	1517.00	12.31	199.71	231.63	16.20
*	4310.000	2542.82	420.00	2.92	2.46	6.60	.00	76.23	343.77	.00	75.90	190.35	9.68
*	4310.000	2543.19	626.00	3.29	3.26	7.45	.00	167.77	458.23	.00	83.21	204.05	9.71
*	4310.000	2543.36	724.00	3.46	3.54	7.73	.59	215.75	508.14	.10	86.88	201.61	9.72
*	4310.000	2543.60	897.00	3.70	4.00	8.28	1.11	300.70	595.08	1.23	92.36	205.28	9.70
*	4380.000	2552.85	420.00	3.35	1.61	7.68	4.16	.28	403.86	15.85	33.82	437.57	10.03
*	4380.000	2553.39	626.00	3.89	2.59	8.70	4.75	2.18	592.82	30.99	36.08	397.33	10.20
*	4380.000	2553.67	724.00	4.17	2.91	8.94	4.97	4.00	679.30	40.70	37.46	362.07	10.31
*	4380.000	2554.05	897.00	4.55	3.37	9.50	5.51	7.87	827.59	61.54	40.35	341.63	10.46
*	4490.000	2580.26	420.00	2.76	4.11	8.40	3.71	172.05	230.69	17.26	47.65	365.46	27.41
*	4490.000	2580.73	626.00	3.23	5.00	9.43	4.14	295.12	304.54	26.33	54.25	370.46	27.33
*	4490.000	2580.93	724.00	3.43	5.31	9.80	4.30	356.29	336.89	30.81	57.15	368.97	27.26
*	4490.000	2581.23	897.00	3.73	5.77	10.42	4.57	466.59	391.59	38.83	60.41	370.34	27.18
*	4600.000	2614.85	420.00	3.55	3.67	10.21	5.36	20.23	251.54	148.22	25.28	317.51	34.59
*	4600.000	2615.56	626.00	4.26	4.19	11.65	6.43	33.23	345.15	247.62	26.12	324.19	34.83
*	4600.000	2615.87	724.00	4.57	4.38	12.20	6.85	39.98	387.55	296.46	26.48	323.29	34.94
*	4600.000	2616.37	897.00	5.07	4.70	13.08	7.53	52.63	460.76	383.61	27.07	323.60	35.13
*	4690.000	2672.03	420.00	3.53	1.95	8.33	2.13	1.93	416.29	1.78	26.39	183.02	57.17
*	4690.000	2672.68	626.00	4.18	2.74	9.44	2.57	8.67	612.95	4.39	28.75	165.86	57.12
*	4690.000	2672.96	724.00	4.46	3.02	9.87	2.74	13.56	704.49	5.96	29.77	159.64	57.09
*	4690.000	2673.47	897.00	4.97	3.40	10.39	2.95	25.34	862.31	9.35	31.60	144.78	57.10
*	4770.000	2719.39	420.00	3.39	4.73	9.58	4.33	77.20	297.12	45.68	27.33	151.22	47.37
*	4770.000	2720.11	626.00	4.11	5.44	10.74	5.16	135.50	411.60	78.90	30.18	143.53	47.43
*	4770.000	2720.40	724.00	4.40	5.71	11.23	5.53	164.66	463.53	95.81	31.23	142.18	47.44
*	4770.000	2720.85	897.00	4.85	6.15	12.05	6.10	218.15	553.16	125.69	32.88	142.14	47.38
*	4850.000	2754.11	420.00	4.61	3.20	9.22	3.47	13.88	392.61	13.50	22.56	153.09	34.72
*	4850.000	2754.95	626.00	5.45	3.96	10.28	4.12	38.13	556.61	31.26	26.50	138.34	34.84
*	4850.000	2755.29	724.00	5.79	4.24	10.69	4.36	52.67	630.00	41.33	28.13	133.61	34.90
*	4850.000	2755.85	897.00	6.35	4.66	11.33	4.72	81.95	754.01	61.03	30.73	127.65	35.00
*	4950.000	2789.99	210.00	2.49	.00	7.01	2.18	.00	208.56	1.44	21.13	347.04	35.88
*	4950.000	2790.47	313.00	2.97	.00	7.89	2.95	.00	307.38	5.62	22.70	316.25	35.52
*	4950.000	2790.67	362.00	3.17	.00	8.22	3.24	.00	353.47	8.53	23.38	305.81	35.38
*	4950.000	2791.00	448.00	3.50	.00	8.76	3.67	.00	433.15	14.85	24.47	294.53	35.16
*	5020.000	2817.65	210.00	2.25	.04	6.27	.00	.00	210.00	.00	28.79	529.36	27.66
*	5020.000	2818.03	313.00	2.63	1.43	6.94	.04	.52	312.48	.00	32.63	482.34	27.56
*	5020.000	2818.19	362.00	2.79	1.72	7.23	.04	1.17	360.83	.00	33.41	456.89	27.51
*	5020.000	2818.44	448.00	3.04	2.11	7.73	1.29	2.92	444.89	.19	34.65	430.88	27.44

	SECNO	CWSEL	Q	DEPTH	VLOB	VCH	VROB	QLOB	QCH	QROB	TOPWID	10*KS	DIFWSX
*	5100.000	2851.12	210.00	2.32	1.85	8.06	4.12	.90	193.28	15.82	15.86	412.66	33.47
*	5100.000	2851.72	313.00	2.92	2.35	9.10	4.63	2.70	282.21	28.09	17.15	374.09	33.69
*	5100.000	2851.98	362.00	3.18	2.53	9.50	4.81	3.86	323.58	34.56	17.72	359.50	33.79
*	5100.000	2852.39	448.00	3.59	2.81	10.17	5.10	6.25	395.19	46.56	18.60	345.97	33.95
*	5180.000	2890.46	210.00	3.66	4.23	10.16	4.52	40.37	127.69	41.94	15.33	349.50	39.34
*	5180.000	2891.29	313.00	4.49	4.64	10.99	4.82	72.79	172.76	67.44	18.31	302.76	39.57
*	5180.000	2891.56	362.00	4.76	5.05	11.47	5.02	90.92	192.17	78.91	19.25	303.16	39.58
*	5180.000	2892.01	448.00	5.21	5.60	12.13	5.28	124.41	224.01	99.58	20.81	297.63	39.62
*	5240.000	2940.95	210.00	3.55	.00	8.13	1.90	.00	209.13	.86	13.36	369.78	50.49
*	5240.000	2941.66	313.00	4.26	.00	8.97	2.78	.00	308.23	4.76	14.71	325.51	50.37
*	5240.000	2941.87	362.00	4.47	.04	9.57	3.12	.00	354.93	7.07	16.14	339.49	50.31
*	5240.000	2942.58	448.00	5.18	1.76	9.27	3.32	7.55	425.20	15.25	27.23	239.37	50.57
*	5310.000	3005.58	210.00	3.58	4.44	10.07	3.59	48.47	142.97	18.56	14.11	244.77	64.63
*	5310.000	3006.35	313.00	4.35	4.93	11.32	4.10	79.59	199.29	34.12	16.39	232.51	64.69
*	5310.000	3006.77	362.00	4.77	4.94	11.43	4.16	96.30	222.51	43.19	17.65	206.95	64.90
*	5310.000	3007.27	448.00	5.27	5.45	12.04	4.41	129.52	260.85	57.63	19.21	199.45	64.69

LOW SPRINGS WASH (WS.

SUMMARY PRINTOUT TABLE 150

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
	1780.000	.00	.00	.00	2179.30	2652.00	2186.03	2186.02	2188.14	47.28	12.18	262.25	385.70
	1780.000	.00	.00	.00	2179.30	4004.00	2187.68	.00	2190.05	38.63	13.20	382.04	644.20
	1780.000	.00	.00	.00	2179.30	4682.00	2188.22	2188.07	2190.88	39.73	14.08	422.85	742.83
	1780.000	.00	.00	.00	2179.30	5877.00	2189.63	.00	2192.30	32.57	14.31	532.16	1029.79
*	1910.000	690.00	.00	.00	2199.00	2652.00	2207.32	2207.32	2209.46	51.61	12.04	249.65	369.16
*	1910.000	690.00	.00	.00	2199.00	4004.00	2208.68	2208.68	2211.38	48.61	13.74	344.60	574.30
*	1910.000	690.00	.00	.00	2199.00	4682.00	2209.41	2209.41	2212.23	44.63	14.15	398.79	700.87
*	1910.000	690.00	.00	.00	2199.00	5877.00	2210.41	2210.41	2213.57	42.81	15.14	478.38	898.21
*	1970.000	320.00	.00	.00	2213.10	1835.00	2218.00	2218.00	2219.26	139.03	9.03	205.40	155.63
*	1970.000	320.00	.00	.00	2213.10	2746.00	2218.76	2218.76	2220.38	125.10	10.26	272.55	245.51
*	1970.000	320.00	.00	.00	2213.10	3193.00	2219.10	2219.10	2220.88	119.75	10.75	303.64	291.79
*	1970.000	320.00	.00	.00	2213.10	3978.00	2219.70	2219.70	2221.70	109.73	11.41	358.40	379.76
*	2100.000	690.00	.00	.00	2227.90	1835.00	2231.81	2231.81	2233.53	91.86	10.55	175.27	191.46
*	2100.000	690.00	.00	.00	2227.90	2746.00	2232.89	2232.89	2235.09	83.43	11.94	234.49	300.64
*	2100.000	690.00	.00	.00	2227.90	3193.00	2233.38	2233.38	2235.78	79.73	12.49	262.50	357.59
*	2100.000	690.00	.00	.00	2227.90	3978.00	2234.20	2234.20	2236.90	73.55	13.28	312.26	463.86
*	2170.000	370.00	.00	.00	2232.40	1835.00	2239.19	2239.19	2241.11	60.97	11.90	195.98	235.01
	2170.000	370.00	.00	.00	2232.40	2746.00	2240.44	2240.44	2242.77	59.20	13.44	267.46	356.88
	2170.000	370.00	.00	.00	2232.40	3193.00	2240.97	2240.97	2243.48	59.18	14.12	298.63	415.07
*	2170.000	370.00	.00	.00	2232.40	3978.00	2241.80	2241.80	2244.63	59.19	15.18	350.31	517.04
*	2270.000	530.00	.00	.00	2247.30	1835.00	2251.38	2251.38	2252.89	91.34	9.89	189.59	192.00
*	2270.000	530.00	.00	.00	2247.30	2746.00	2252.33	2252.33	2254.25	81.93	11.21	255.08	303.37
*	2270.000	530.00	.00	.00	2247.30	3193.00	2252.75	2252.75	2254.84	78.58	11.73	285.90	360.20
*	2270.000	530.00	.00	.00	2247.30	3978.00	2253.51	2253.51	2255.81	70.78	12.37	343.47	472.85
*	2360.000	475.00	.00	.00	2256.50	1835.00	2260.10	2260.10	2261.25	176.65	8.62	214.06	138.06
*	2360.000	475.00	.00	.00	2256.50	2746.00	2260.87	2260.87	2262.26	153.36	9.50	296.71	221.74
*	2360.000	475.00	.00	.00	2256.50	3193.00	2261.17	2261.17	2262.69	149.51	9.96	330.76	261.13
*	2360.000	475.00	.00	.00	2256.50	3978.00	2261.67	2261.67	2263.38	142.20	10.66	387.83	333.59
*	2450.000	475.00	.00	.00	2267.00	1835.00	2272.49	2272.49	2273.58	79.31	9.31	262.94	206.04
*	2450.000	475.00	.00	.00	2267.00	2746.00	2273.21	2273.21	2274.51	75.39	10.44	356.91	316.26
*	2450.000	475.00	.00	.00	2267.00	3193.00	2273.45	2273.45	2274.92	80.18	11.20	387.83	356.58
*	2450.000	475.00	.00	.00	2267.00	3978.00	2273.92	2273.92	2275.59	79.88	12.03	451.19	445.09
*	2510.000	320.00	.00	.00	2271.40	1835.00	2277.75	2277.75	2279.67	91.46	12.21	185.15	191.87
*	2510.000	320.00	.00	.00	2271.40	2746.00	2279.04	2279.04	2281.37	86.53	13.73	251.83	295.19
*	2510.000	320.00	.00	.00	2271.40	3193.00	2279.58	2279.58	2282.08	85.18	14.36	282.15	345.97
*	2510.000	320.00	.00	.00	2271.40	3978.00	2280.44	2280.44	2283.23	83.20	15.32	333.97	436.13

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
*	2570.000	320.00	.00	.00	2279.50	1835.00	2285.72	2285.72	2287.01	105.86	9.44	217.50	178.35
*	2570.000	320.00	.00	.00	2279.50	2746.00	2286.53	2286.53	2288.22	105.25	10.95	290.23	267.66
*	2570.000	320.00	.00	.00	2279.50	3193.00	2286.98	2286.98	2288.73	96.02	11.23	336.21	325.86
*	2570.000	320.00	.00	.00	2279.50	3978.00	2287.54	2287.54	2289.53	95.64	12.13	399.07	406.76
*	2680.000	580.00	.00	.00	2296.10	1835.00	2301.36	2301.36	2302.24	114.45	9.49	301.83	171.53
*	2680.000	580.00	.00	.00	2296.10	2746.00	2301.99	2301.99	2302.99	107.06	10.37	410.03	265.39
*	2680.000	580.00	.00	.00	2296.10	3193.00	2302.21	2302.21	2303.32	111.56	10.99	448.54	302.30
*	2680.000	580.00	.00	.00	2296.10	3978.00	2302.56	2302.56	2303.85	118.35	11.97	510.92	365.67
*	2780.000	530.00	.00	.00	2305.20	1835.00	2311.47	2311.47	2313.12	130.43	10.31	178.86	160.67
*	2780.000	530.00	.00	.00	2305.20	2746.00	2312.52	2312.52	2314.57	117.12	11.49	275.69	253.74
*	2780.000	530.00	.00	.00	2305.20	3193.00	2313.01	2313.01	2315.20	110.64	11.89	339.05	303.56
*	2780.000	530.00	.00	.00	2305.20	3978.00	2313.77	2313.77	2316.20	101.86	12.57	457.87	394.15
*	2850.000	370.00	.00	.00	2314.20	1835.00	2319.42	2319.42	2321.41	108.44	11.43	169.38	176.21
*	2850.000	370.00	.00	.00	2314.20	2746.00	2320.69	2320.69	2323.19	97.22	12.91	231.05	278.50
*	2850.000	370.00	.00	.00	2314.20	3193.00	2321.25	2321.25	2323.96	93.63	13.51	259.79	329.98
*	2850.000	370.00	.00	.00	2314.20	3978.00	2322.18	2322.18	2325.22	87.86	14.40	309.82	424.40
*	2930.000	420.00	.00	.00	2329.00	1698.00	2333.03	2333.03	2334.46	164.06	9.62	178.40	132.57
*	2930.000	420.00	.00	.00	2329.00	2528.00	2333.93	2333.93	2335.73	144.25	10.81	239.58	210.49
*	2930.000	420.00	.00	.00	2329.00	2932.00	2334.33	2334.33	2336.27	137.87	11.29	267.84	249.71
*	2930.000	420.00	.00	.00	2329.00	3640.00	2334.97	2334.97	2337.16	128.96	12.02	316.37	320.53
*	2990.000	320.00	.00	.00	2338.20	1698.00	2344.60	2344.60	2346.33	120.04	11.30	178.69	154.98
*	2990.000	320.00	.00	.00	2338.20	2528.00	2345.77	2345.77	2347.80	110.99	12.57	249.62	239.96
*	2990.000	320.00	.00	.00	2338.20	2932.00	2346.33	2346.33	2348.40	102.97	12.85	290.10	288.95
*	2990.000	320.00	.00	.00	2338.20	3640.00	2347.10	2347.10	2349.31	98.25	13.53	353.46	367.23
*	3050.000	320.00	.00	.00	2351.20	1698.00	2356.41	2356.41	2358.01	153.58	10.81	187.75	137.02
*	3050.000	320.00	.00	.00	2351.20	2528.00	2357.55	2357.55	2359.38	135.29	11.85	267.91	217.35
*	3050.000	320.00	.00	.00	2351.20	2932.00	2358.04	2358.04	2359.92	127.70	12.19	308.69	259.46
*	3050.000	320.00	.00	.00	2351.20	3640.00	2358.81	2358.81	2360.75	116.68	12.64	385.99	336.97
*	3140.000	475.00	.00	.00	2363.60	1698.00	2368.73	2368.73	2369.66	105.61	9.97	278.23	165.23
*	3140.000	475.00	.00	.00	2363.60	2528.00	2369.26	2369.26	2370.54	129.39	11.93	343.13	222.24
*	3140.000	475.00	.00	.00	2363.60	2932.00	2369.53	2369.53	2370.92	132.73	12.54	377.17	254.49
*	3140.000	475.00	.00	.00	2363.60	3640.00	2369.97	2369.97	2371.53	136.37	13.44	434.14	311.70
*	3230.000	480.00	.00	.00	2373.80	1698.00	2379.61	2379.61	2381.10	111.84	10.57	346.65	160.56
*	3230.000	480.00	.00	.00	2373.80	2528.00	2380.60	2380.60	2382.38	109.70	11.94	514.50	241.36
*	3230.000	480.00	.00	.00	2373.80	2932.00	2381.00	2381.00	2382.91	109.78	12.53	602.74	279.84
*	3230.000	480.00	.00	.00	2373.80	3640.00	2381.72	2381.72	2383.74	103.79	13.15	785.47	357.29
*	3310.000	420.00	.00	.00	2385.10	1698.00	2390.35	2390.35	2392.10	135.70	10.88	171.35	145.76
*	3310.000	420.00	.00	.00	2385.10	2528.00	2391.59	2391.59	2393.64	115.37	11.97	241.98	235.36
*	3310.000	420.00	.00	.00	2385.10	2932.00	2392.14	2392.14	2394.25	105.98	12.26	283.19	284.80
*	3310.000	420.00	.00	.00	2385.10	3640.00	2392.85	2392.85	2395.20	104.09	13.12	339.63	356.78

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
*	3390.000	420.00	.00	.00	2394.00	1698.00	2400.45	2400.45	2402.46	132.00	11.56	158.06	147.79
*	3390.000	420.00	.00	.00	2394.00	2528.00	2401.76	2401.76	2404.19	119.09	12.94	219.12	231.65
*	3390.000	420.00	.00	.00	2394.00	2932.00	2402.32	2402.32	2404.93	114.80	13.49	247.94	273.64
*	3390.000	420.00	.00	.00	2394.00	3640.00	2403.21	2403.21	2406.10	109.34	14.34	297.03	348.11
*	3490.000	530.00	.00	.00	2406.50	1698.00	2412.75	2412.75	2414.61	93.13	11.35	172.95	175.95
*	3490.000	530.00	.00	.00	2406.50	2528.00	2413.91	2413.91	2416.26	91.19	12.99	232.06	264.73
*	3490.000	530.00	.00	.00	2406.50	2932.00	2414.42	2414.42	2416.98	90.00	13.63	259.44	309.05
*	3490.000	530.00	.00	.00	2406.50	3640.00	2415.35	2415.35	2418.13	82.98	14.34	312.32	399.58
*	3590.000	530.00	.00	.00	2420.30	1698.00	2427.76	2427.76	2430.23	84.34	13.65	162.47	184.89
*	3590.000	530.00	.00	.00	2420.30	2528.00	2429.44	2429.44	2432.32	77.31	15.14	230.34	287.51
*	3590.000	530.00	.00	.00	2420.30	2932.00	2430.14	2430.14	2433.19	75.15	15.75	260.94	338.23
*	3590.000	530.00	.00	.00	2420.30	3640.00	2431.10	2431.10	2434.58	77.32	17.07	304.35	413.95
*	3680.000	480.00	.00	.00	2432.80	1698.00	2439.95	2439.95	2442.12	98.40	12.81	170.45	171.17
*	3680.000	480.00	.00	.00	2432.80	2528.00	2441.72	2441.72	2443.76	75.36	13.14	285.22	291.21
*	3680.000	480.00	.00	.00	2432.80	2932.00	2442.25	2442.25	2444.35	74.48	13.61	329.29	339.74
*	3680.000	480.00	.00	.00	2432.80	3640.00	2442.95	2442.95	2445.28	78.16	14.67	388.21	411.72
*	3810.000	690.00	.00	.00	2458.40	1189.00	2462.21	2462.21	2463.30	133.91	8.77	158.19	102.75
*	3810.000	690.00	.00	.00	2458.40	1755.00	2462.93	2462.93	2464.21	122.56	9.72	220.63	158.53
*	3810.000	690.00	.00	.00	2458.40	2027.00	2463.25	2463.25	2464.58	117.24	10.05	251.38	187.20
*	3810.000	690.00	.00	.00	2458.40	2502.00	2463.69	2463.69	2465.16	116.22	10.73	296.78	232.09
*	3940.000	690.00	.00	.00	2478.90	1189.00	2482.03	2482.03	2482.95	150.21	8.10	172.24	97.01
*	3940.000	690.00	.00	.00	2478.90	1755.00	2482.63	2482.63	2483.72	137.07	8.99	237.57	149.90
*	3940.000	690.00	.00	.00	2478.90	2027.00	2482.83	2482.83	2484.04	142.06	9.56	261.00	170.07
*	3940.000	690.00	.00	.00	2478.90	2502.00	2483.29	2483.29	2484.55	127.13	9.89	317.97	221.90
*	4040.000	530.00	.00	.00	2493.40	1189.00	2499.52	2499.52	2501.30	135.96	10.84	117.90	101.97
*	4040.000	530.00	.00	.00	2493.40	1755.00	2500.83	2500.83	2502.71	105.46	11.44	182.45	170.90
*	4040.000	530.00	.00	.00	2493.40	2027.00	2501.26	2501.26	2503.25	103.55	11.92	206.71	199.19
*	4040.000	530.00	.00	.00	2493.40	2502.00	2501.93	2501.93	2504.11	101.87	12.68	246.27	247.89
*	4160.000	630.00	.00	.00	2510.30	1189.00	2515.65	2515.65	2517.18	117.77	10.24	133.30	109.56
*	4160.000	630.00	.00	.00	2510.30	1755.00	2516.65	2516.65	2518.44	108.81	11.38	187.99	168.25
*	4160.000	630.00	.00	.00	2510.30	2027.00	2517.04	2517.04	2518.96	107.46	11.89	211.05	195.54
*	4160.000	630.00	.00	.00	2510.30	2502.00	2517.69	2517.69	2519.80	104.17	12.61	250.56	245.15
*	4240.000	420.00	.00	.00	2531.10	1189.00	2533.14	2533.14	2533.72	289.15	6.59	196.67	69.92
*	4240.000	420.00	.00	.00	2531.10	1755.00	2533.48	2533.48	2534.22	259.48	7.53	261.16	108.95
*	4240.000	420.00	.00	.00	2531.10	2027.00	2533.64	2533.64	2534.44	247.46	7.89	290.91	128.85
*	4240.000	420.00	.00	.00	2531.10	2502.00	2533.89	2533.89	2534.80	231.63	8.43	340.53	164.39
*	4310.000	370.00	.00	.00	2539.90	420.00	2542.82	2542.82	2543.39	190.35	6.60	82.98	30.44
*	4310.000	370.00	.00	.00	2539.90	626.00	2543.19	2543.19	2543.87	204.05	7.45	113.05	43.82
*	4310.000	370.00	.00	.00	2539.90	724.00	2543.36	2543.36	2544.07	201.61	7.73	126.86	50.99
*	4310.000	370.00	.00	.00	2539.90	897.00	2543.60	2543.60	2544.38	205.28	8.28	148.19	62.61

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
*	4380.000	320.00	.00	.00	2549.50	420.00	2552.85	2552.85	2553.74	437.57	7.68	56.55	20.08
*	4380.000	320.00	.00	.00	2549.50	626.00	2553.39	2553.39	2554.53	397.33	8.70	75.49	31.40
*	4380.000	320.00	.00	.00	2549.50	724.00	2553.67	2553.67	2554.86	362.07	8.94	85.58	38.05
*	4380.000	320.00	.00	.00	2549.50	897.00	2554.05	2554.05	2555.38	341.63	9.50	100.57	48.53
*	4490.000	580.00	.00	.00	2577.50	420.00	2580.26	2580.26	2580.98	365.46	8.40	73.95	21.97
*	4490.000	580.00	.00	.00	2577.50	626.00	2580.73	2580.73	2581.59	370.46	9.43	97.65	32.52
*	4490.000	580.00	.00	.00	2577.50	724.00	2580.93	2580.93	2581.85	368.97	9.80	108.68	37.69
*	4490.000	580.00	.00	.00	2577.50	897.00	2581.23	2581.23	2582.25	370.34	10.42	126.90	46.61
*	4600.000	580.00	.00	.00	2611.30	420.00	2614.85	2614.85	2615.99	317.51	10.21	57.80	23.57
*	4600.000	580.00	.00	.00	2611.30	626.00	2615.56	2615.56	2616.99	324.19	11.65	76.03	34.77
*	4600.000	580.00	.00	.00	2611.30	724.00	2615.87	2615.87	2617.42	323.29	12.20	84.14	40.27
*	4600.000	580.00	.00	.00	2611.30	897.00	2616.37	2616.37	2618.13	323.60	13.08	97.40	49.86
*	4690.000	480.00	.00	.00	2668.50	420.00	2672.03	2672.03	2673.09	183.02	8.33	51.79	31.05
*	4690.000	480.00	.00	.00	2668.50	626.00	2672.68	2672.68	2674.04	165.86	9.44	69.78	48.61
*	4690.000	480.00	.00	.00	2668.50	724.00	2672.96	2672.96	2674.44	159.64	9.87	78.05	57.30
*	4690.000	480.00	.00	.00	2668.50	897.00	2673.47	2673.47	2675.09	144.78	10.39	93.59	74.55
*	4770.000	430.00	.00	.00	2716.00	420.00	2719.39	2719.39	2720.49	151.22	9.58	57.90	34.15
*	4770.000	430.00	.00	.00	2716.00	626.00	2720.11	2720.11	2721.44	143.53	10.74	78.53	52.25
*	4770.000	430.00	.00	.00	2716.00	724.00	2720.40	2720.40	2721.83	142.18	11.23	87.41	60.72
*	4770.000	430.00	.00	.00	2716.00	897.00	2720.85	2720.85	2722.46	142.14	12.05	101.93	75.24
*	4850.000	420.00	.00	.00	2749.50	420.00	2754.11	2754.11	2755.36	153.09	9.22	50.82	33.95
*	4850.000	420.00	.00	.00	2749.50	626.00	2754.95	2754.95	2756.44	138.34	10.28	71.34	53.22
*	4850.000	420.00	.00	.00	2749.50	724.00	2755.29	2755.29	2756.88	133.61	10.69	80.82	62.64
*	4850.000	420.00	.00	.00	2749.50	897.00	2755.85	2755.85	2757.58	127.65	11.33	97.05	79.39
*	4950.000	530.00	.00	.00	2787.50	210.00	2789.99	2789.99	2790.75	347.04	7.01	30.40	11.27
*	4950.000	530.00	.00	.00	2787.50	313.00	2790.47	2790.47	2791.42	316.25	7.89	40.88	17.60
*	4950.000	530.00	.00	.00	2787.50	362.00	2790.67	2790.67	2791.70	305.81	8.22	45.63	20.70
*	4950.000	530.00	.00	.00	2787.50	448.00	2791.00	2791.00	2792.16	294.53	8.76	53.51	26.10
*	5020.000	370.00	.00	.00	2815.40	210.00	2817.65	2817.65	2818.26	529.36	6.27	33.51	9.13
*	5020.000	370.00	.00	.00	2815.40	313.00	2818.03	2818.03	2818.78	482.34	6.94	45.41	14.25
*	5020.000	370.00	.00	.00	2815.40	362.00	2818.19	2818.19	2819.00	456.89	7.23	50.63	16.94
*	5020.000	370.00	.00	.00	2815.40	448.00	2818.44	2818.44	2819.36	430.88	7.73	59.12	21.58
*	5100.000	420.00	.00	.00	2848.80	210.00	2851.12	2851.12	2852.06	412.66	8.06	28.32	10.34
*	5100.000	420.00	.00	.00	2848.80	313.00	2851.72	2851.72	2852.91	374.09	9.10	38.21	16.18
*	5100.000	420.00	.00	.00	2848.80	362.00	2851.98	2851.98	2853.27	359.50	9.50	42.77	19.09
*	5100.000	420.00	.00	.00	2848.80	448.00	2852.39	2852.39	2853.85	345.97	10.17	50.19	24.09
*	5180.000	420.00	.00	.00	2886.80	210.00	2890.46	2890.46	2891.55	349.50	10.16	31.39	11.23
*	5180.000	420.00	.00	.00	2886.80	313.00	2891.29	2891.29	2892.48	302.76	10.99	45.39	17.99
*	5180.000	420.00	.00	.00	2886.80	362.00	2891.56	2891.56	2892.83	303.16	11.47	50.48	20.79
*	5180.000	420.00	.00	.00	2886.80	448.00	2892.01	2892.01	2893.39	297.63	12.13	59.53	25.97

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
*	5240.000	320.00	.00	.00	2937.40	210.00	2940.95	2940.95	2941.97	369.78	8.13	26.17	10.92
*	5240.000	320.00	.00	.00	2937.40	313.00	2941.66	2941.66	2942.89	325.51	8.97	36.08	17.35
*	5240.000	320.00	.00	.00	2937.40	362.00	2941.87	2941.87	2943.27	339.49	9.57	39.37	19.65
*	5240.000	320.00	.00	.00	2937.40	448.00	2942.58	2942.58	2943.86	239.37	9.27	54.78	28.96
*	5310.000	370.00	.00	.00	3002.00	210.00	3005.58	3005.58	3006.74	244.77	10.07	30.30	13.42
*	5310.000	370.00	.00	.00	3002.00	313.00	3006.35	3006.35	3007.74	232.51	11.32	42.08	20.53
*	5310.000	370.00	.00	.00	3002.00	362.00	3006.77	3006.77	3008.15	206.95	11.43	49.32	25.16
*	5310.000	370.00	.00	.00	3002.00	448.00	3007.27	3007.27	3008.76	199.45	12.04	58.48	31.72

LOW SPRINGS WASH (WS.

SUMMARY PRINTOUT TABLE 150

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	1780.000	2652.00	2186.03	.00	.00	.00	69.04	.00
	1780.000	4004.00	2187.68	1.65	.00	.00	75.04	.00
	1780.000	4682.00	2188.22	.54	.00	.00	76.12	.00
	1780.000	5877.00	2189.63	1.41	.00	.00	78.94	.00
*	1910.000	2652.00	2207.32	.00	21.29	.00	66.33	690.00
*	1910.000	4004.00	2208.68	1.36	21.00	.00	72.87	690.00
*	1910.000	4682.00	2209.41	.73	21.19	.00	76.36	690.00
*	1910.000	5877.00	2210.41	1.00	20.78	.00	83.09	690.00
*	1970.000	1835.00	2218.00	.00	10.68	.00	86.95	320.00
*	1970.000	2746.00	2218.76	.76	10.07	.00	89.32	320.00
*	1970.000	3193.00	2219.10	.35	9.69	.00	90.39	320.00
*	1970.000	3978.00	2219.70	.60	9.29	.00	92.26	320.00
*	2100.000	1835.00	2231.81	.00	13.81	.00	52.92	690.00
*	2100.000	2746.00	2232.89	1.08	14.14	.00	56.75	690.00
*	2100.000	3193.00	2233.38	.48	14.27	.00	58.91	690.00
*	2100.000	3978.00	2234.20	.82	14.49	.00	62.58	690.00
*	2170.000	1835.00	2239.19	.00	7.38	.00	54.58	370.00
	2170.000	2746.00	2240.44	1.26	7.55	.00	58.93	370.00
	2170.000	3193.00	2240.97	.52	7.59	.00	60.58	370.00
*	2170.000	3978.00	2241.80	.83	7.60	.00	63.21	370.00
*	2270.000	1835.00	2251.38	.00	12.19	.00	66.61	530.00
*	2270.000	2746.00	2252.33	.95	11.88	.00	71.81	530.00
*	2270.000	3193.00	2252.75	.42	11.78	.00	74.13	530.00
*	2270.000	3978.00	2253.51	.76	11.71	.00	78.16	530.00
*	2360.000	1835.00	2260.10	.00	8.72	.00	98.79	475.00
*	2360.000	2746.00	2260.87	.78	8.55	.00	111.78	475.00
*	2360.000	3193.00	2261.17	.30	8.42	.00	114.36	475.00
*	2360.000	3978.00	2261.67	.49	8.16	.00	118.22	475.00
*	2450.000	1835.00	2272.49	.00	12.39	.00	128.01	475.00
*	2450.000	2746.00	2273.21	.72	12.34	.00	131.90	475.00
*	2450.000	3193.00	2273.45	.23	12.27	.00	132.98	475.00
*	2450.000	3978.00	2273.92	.47	12.25	.00	134.96	475.00
*	2510.000	1835.00	2277.75	.00	5.26	.00	49.02	320.00
*	2510.000	2746.00	2279.04	1.29	5.82	.00	54.95	320.00
*	2510.000	3193.00	2279.58	.54	6.13	.00	57.78	320.00
*	2510.000	3978.00	2280.44	.86	6.52	.00	62.31	320.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	2570.000	1835.00	2285.72	.00	7.97	.00	83.82	320.00
*	2570.000	2746.00	2286.53	.81	7.50	.00	97.11	320.00
*	2570.000	3193.00	2286.98	.45	7.41	.00	106.70	320.00
*	2570.000	3978.00	2287.54	.56	7.10	.00	118.57	320.00
*	2680.000	1835.00	2301.36	.00	15.64	.00	165.28	580.00
*	2680.000	2746.00	2301.99	.64	15.46	.00	174.60	580.00
*	2680.000	3193.00	2302.21	.22	15.23	.00	177.09	580.00
*	2680.000	3978.00	2302.56	.35	15.02	.00	181.07	580.00
*	2780.000	1835.00	2311.47	.00	10.11	.00	64.86	530.00
*	2780.000	2746.00	2312.52	1.05	10.53	.00	118.31	530.00
*	2780.000	3193.00	2313.01	.49	10.80	.00	140.01	530.00
*	2780.000	3978.00	2313.77	.76	11.21	.00	174.72	530.00
*	2850.000	1835.00	2319.42	.00	7.95	.00	46.32	370.00
*	2850.000	2746.00	2320.69	1.27	8.17	.00	50.59	370.00
*	2850.000	3193.00	2321.25	.56	8.24	.00	52.46	370.00
*	2850.000	3978.00	2322.18	.93	8.41	.00	55.57	370.00
*	2930.000	1698.00	2333.03	.00	13.61	.00	65.64	420.00
*	2930.000	2528.00	2333.93	.90	13.24	.00	70.09	420.00
*	2930.000	2932.00	2334.33	.40	13.08	.00	72.87	420.00
*	2930.000	3640.00	2334.97	.65	12.80	.00	77.40	420.00
*	2990.000	1698.00	2344.60	.00	11.58	.00	54.88	320.00
	2990.000	2528.00	2345.77	1.16	11.84	.00	68.45	320.00
	2990.000	2932.00	2346.33	.56	12.00	.00	76.13	320.00
*	2990.000	3640.00	2347.10	.77	12.13	.00	88.44	320.00
*	3050.000	1698.00	2356.41	.00	11.81	.00	64.08	320.00
*	3050.000	2528.00	2357.55	1.14	11.78	.00	77.09	320.00
*	3050.000	2932.00	2358.04	.49	11.71	.00	89.87	320.00
*	3050.000	3640.00	2358.81	.77	11.72	.00	109.88	320.00
*	3140.000	1698.00	2368.73	.00	12.32	.00	120.29	475.00
*	3140.000	2528.00	2369.26	.53	11.71	.00	124.80	475.00
*	3140.000	2932.00	2369.53	.27	11.49	.00	127.11	475.00
*	3140.000	3640.00	2369.97	.44	11.16	.00	130.88	475.00
*	3230.000	1698.00	2379.61	.00	10.88	.00	155.53	480.00
*	3230.000	2528.00	2380.60	.99	11.34	.00	194.48	480.00
*	3230.000	2932.00	2381.00	.40	11.47	.00	234.81	480.00
*	3230.000	3640.00	2381.72	.72	11.75	.00	263.72	480.00
*	3310.000	1698.00	2390.35	.00	10.74	.00	52.80	420.00
*	3310.000	2528.00	2391.59	1.23	10.99	.00	67.75	420.00
*	3310.000	2932.00	2392.14	.56	11.14	.00	77.19	420.00
*	3310.000	3640.00	2392.85	.71	11.13	.00	82.15	420.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	3390.000	1698.00	2400.45	.00	10.10	.00	43.69	420.00
*	3390.000	2528.00	2401.76	1.30	10.17	.00	50.08	420.00
*	3390.000	2932.00	2402.32	.56	10.18	.00	52.83	420.00
*	3390.000	3640.00	2403.21	.89	10.36	.00	57.21	420.00
*	3490.000	1698.00	2412.75	.00	12.30	.00	49.03	530.00
*	3490.000	2528.00	2413.91	1.16	12.15	.00	53.02	530.00
*	3490.000	2932.00	2414.42	.51	12.10	.00	54.77	530.00
*	3490.000	3640.00	2415.35	.94	12.15	.00	58.68	530.00
*	3590.000	1698.00	2427.76	.00	15.01	.00	37.29	530.00
*	3590.000	2528.00	2429.44	1.68	15.53	.00	42.76	530.00
*	3590.000	2932.00	2430.14	.70	15.73	.00	44.37	530.00
*	3590.000	3640.00	2431.10	.95	15.74	.00	46.56	530.00
*	3680.000	1698.00	2439.95	.00	12.18	.00	45.37	480.00
*	3680.000	2528.00	2441.72	1.77	12.28	.00	83.16	480.00
*	3680.000	2932.00	2442.25	.53	12.10	.00	83.65	480.00
*	3680.000	3640.00	2442.95	.70	11.85	.00	84.30	480.00
*	3810.000	1189.00	2462.21	.00	22.26	.00	78.38	690.00
*	3810.000	1755.00	2462.93	.72	21.21	.00	94.08	690.00
*	3810.000	2027.00	2463.25	.32	21.00	.00	100.63	690.00
*	3810.000	2502.00	2463.69	.44	20.74	.00	107.61	690.00
*	3940.000	1189.00	2482.03	.00	19.82	.00	101.75	690.00
	3940.000	1755.00	2482.63	.60	19.70	.00	115.10	690.00
	3940.000	2027.00	2482.83	.20	19.58	.00	119.52	690.00
*	3940.000	2502.00	2483.29	.46	19.60	.00	129.72	690.00
*	4040.000	1189.00	2499.52	.00	17.49	.00	41.25	530.00
*	4040.000	1755.00	2500.83	1.31	18.20	.00	55.03	530.00
*	4040.000	2027.00	2501.26	.43	18.43	.00	57.51	530.00
*	4040.000	2502.00	2501.93	.67	18.64	.00	61.33	530.00
*	4160.000	1189.00	2515.65	.00	16.13	.00	51.82	630.00
*	4160.000	1755.00	2516.65	1.00	15.82	.00	57.21	630.00
*	4160.000	2027.00	2517.04	.40	15.78	.00	59.10	630.00
*	4160.000	2502.00	2517.69	.65	15.77	.00	62.22	630.00
*	4240.000	1189.00	2533.14	.00	17.49	.00	181.92	420.00
*	4240.000	1755.00	2533.48	.35	16.84	.00	190.10	420.00
*	4240.000	2027.00	2533.64	.16	16.60	.00	193.76	420.00
*	4240.000	2502.00	2533.89	.25	16.20	.00	199.71	420.00
*	4310.000	420.00	2542.82	.00	9.68	.00	75.90	370.00
*	4310.000	626.00	2543.19	.37	9.71	.00	83.21	370.00
*	4310.000	724.00	2543.36	.16	9.72	.00	86.88	370.00
*	4310.000	897.00	2543.60	.24	9.70	.00	92.36	370.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	4380.000	420.00	2552.85	.00	10.03	.00	33.82	320.00
*	4380.000	626.00	2553.39	.54	10.20	.00	36.08	320.00
*	4380.000	724.00	2553.67	.27	10.31	.00	37.46	320.00
*	4380.000	897.00	2554.05	.39	10.46	.00	40.35	320.00
*	4490.000	420.00	2580.26	.00	27.41	.00	47.65	580.00
*	4490.000	626.00	2580.73	.47	27.33	.00	54.25	580.00
*	4490.000	724.00	2580.93	.20	27.26	.00	57.15	580.00
*	4490.000	897.00	2581.23	.31	27.18	.00	60.41	580.00
*	4600.000	420.00	2614.85	.00	34.59	.00	25.28	580.00
*	4600.000	626.00	2615.56	.71	34.83	.00	26.12	580.00
*	4600.000	724.00	2615.87	.31	34.94	.00	26.48	580.00
*	4600.000	897.00	2616.37	.50	35.13	.00	27.07	580.00
*	4690.000	420.00	2672.03	.00	57.17	.00	26.39	480.00
*	4690.000	626.00	2672.68	.65	57.12	.00	28.75	480.00
*	4690.000	724.00	2672.96	.28	57.09	.00	29.77	480.00
*	4690.000	897.00	2673.47	.51	57.10	.00	31.60	480.00
*	4770.000	420.00	2719.39	.00	47.37	.00	27.33	430.00
*	4770.000	626.00	2720.11	.72	47.43	.00	30.18	430.00
*	4770.000	724.00	2720.40	.29	47.44	.00	31.23	430.00
*	4770.000	897.00	2720.85	.45	47.38	.00	32.88	430.00
*	4850.000	420.00	2754.11	.00	34.72	.00	22.56	420.00
	4850.000	626.00	2754.95	.84	34.84	.00	26.50	420.00
	4850.000	724.00	2755.29	.35	34.90	.00	28.13	420.00
*	4850.000	897.00	2755.85	.55	35.00	.00	30.73	420.00
*	4950.000	210.00	2789.99	.00	35.88	.00	21.13	530.00
*	4950.000	313.00	2790.47	.48	35.52	.00	22.70	530.00
*	4950.000	362.00	2790.67	.21	35.38	.00	23.38	530.00
*	4950.000	448.00	2791.00	.33	35.16	.00	24.47	530.00
*	5020.000	210.00	2817.65	.00	27.66	.00	28.79	370.00
*	5020.000	313.00	2818.03	.38	27.56	.00	32.63	370.00
*	5020.000	362.00	2818.19	.16	27.51	.00	33.41	370.00
*	5020.000	448.00	2818.44	.25	27.44	.00	34.65	370.00
*	5100.000	210.00	2851.12	.00	33.47	.00	15.86	420.00
*	5100.000	313.00	2851.72	.60	33.69	.00	17.15	420.00
*	5100.000	362.00	2851.98	.26	33.79	.00	17.72	420.00
*	5100.000	448.00	2852.39	.41	33.95	.00	18.60	420.00
*	5180.000	210.00	2890.46	.00	39.34	.00	15.33	420.00
*	5180.000	313.00	2891.29	.83	39.57	.00	18.31	420.00
*	5180.000	362.00	2891.56	.27	39.58	.00	19.25	420.00
*	5180.000	448.00	2892.01	.45	39.62	.00	20.81	420.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	5240.000	210.00	2940.95	.00	50.49	.00	13.36	320.00
*	5240.000	313.00	2941.66	.71	50.37	.00	14.71	320.00
*	5240.000	362.00	2941.87	.22	50.31	.00	16.14	320.00
*	5240.000	448.00	2942.58	.71	50.57	.00	27.23	320.00
*	5310.000	210.00	3005.58	.00	64.63	.00	14.11	370.00
*	5310.000	313.00	3006.35	.77	64.69	.00	16.39	370.00
*	5310.000	362.00	3006.77	.43	64.90	.00	17.65	370.00
*	5310.000	448.00	3007.27	.50	64.69	.00	19.21	370.00

SUMMARY OF ERRORS AND SPECIAL NOTES

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CAUTION SECNO=   1910.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
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CAUTION SECNO=  3810.000  PROFILE=  4  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=  3810.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

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CAUTION SECNO=  3940.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

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CAUTION SECNO=  4040.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
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CAUTION SECNO=  4240.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
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CAUTION SECNO=   4690.000  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL
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CAUTION SECNO=   4770.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
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CAUTION SECNO=   4770.000  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL
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CAUTION SECNO=   5240.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   5240.000  PROFILE=  4  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   5240.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=   5310.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
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ION SECNO=   5310.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL
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*******************************************************
*  WATER SURFACE PROFILES                             *
*  VERSION OF SEPTEMBER 1988                          *
*  ERROR: 01,02,03                                    *
*  UPDATED:  SEPTEMBER 1989                           *
*  RUN DATE     4/10/90    TIME    15:45:52           *
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*  U.S. ARMY CORPS OF ENGINEERS
*  THE HYDROLOGIC ENGINEERING CENTER
*  609 SECOND STREET, SUITE D
*  DAVIS, CALIFORNIA 95616-4687
*           (916) 756-1104
*************************************
```

WS. MCX

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X     X  XXXXXXX   XXXXX              XXXXX
X     X  X        X     X            X     X
X     X  X        X                        X
XXXXXXX  XXXX     X       XXXXX    XXXXX
X     X  X        X                 X
X     X  X        X     X           X
X     X  XXXXXXX   XXXXX             XXXXXXX
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*****************************************************
*  WATER SURFACE PROFILES                           *
*  VERSION OF SEPTEMBER 1988                        *
*  ERROR: 01,02,03                                  *
*  UPDATED:  SEPTEMBER 1989                         *
*  RUN DATE     4/10/90   TIME   16:39:28           *
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*************************************
*  U.S. ARMY CORPS OF ENGINEERS
*  THE HYDROLOGIC ENGINEERING CENTER
*  609 SECOND STREET, SUITE D
*  DAVIS, CALIFORNIA 95616-4687
*           (916) 756-1104
*************************************
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X     X  X        X     X            X     X
X     X  X        X                        X
XXXXXXX  XXXX     X         XXXXX    XXXXX
X     X  X        X                  X
X     X  X        X     X            X
X     X  XXXXXXX   XXXXX             XXXXXXX
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END OF BANNER

THIS RUN EXECUTED 4/10/90 16:39:28

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**************************************************
  HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989


  ERROR CORR -  01,02,03
  MODIFICATION -
**************************************************


T1        FLOOD CONTROL DISTRICT OF MARICOPA CO. - LA027815.H2
T2        100-YEAR FLOOD FREQUENCY MODEL,  (NATURAL CONDITIONS)
T3        WILLOW SPRINGS WASH (WS.MCE)

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

                2                                                                  2188.22

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

     1                  -1


J3  VARIABLE CODES FOR SUMMARY PRINTOUT

    38        43        26         8        42        39         1        34         4        53
    21        22        54         0        38        43         1        50        51        27
    21        22        28         5         3        61       200

J5  LPRNT    NUMSEC                    ********REQUESTED SECTION NUMBERS********

   -10       -10

QT       2      4682      4682
NC    .045      .045      .025        .1        .3
ET                        4.1    9969.2   10019.1
         THIS ENCROACHMENT MODEL IS BASED ON A PREVIOUS HEC-2 MODEL OF
         NATURAL CONDITIONS.  REFER TO FILE WS.OUT (CH2M HILL, 1990).

X1    1780        13    9981.4   10019.1
GR  2202.3    9928.4    2196.0    9943.4    2187.2    9956.3    2184.5    9964.6    2182.9    9981.4
GR  2179.3    9989.7    2180.5   10000.0    2181.7   10019.1    2186.5   10030.0    2205.7   10040.3
GR  2211.3   10053.8    2212.7   10089.3    2212.7   10130.7

ET                        4.1    9976.6   10020.2
X1    1910        15    9976.6   10018.5       680       710       690
GR  2218.9    9891.3    2215.3    9927.8    2212.7    9946.7    2209.4    9960.0    2205.1    9976.6
GR  2204.0    9990.2    2199.5    9997.7    2199.0   10000.0    2201.4   10010.0    2204.1   10018.5
GR  2206.3   10033.4    2209.5   10036.4    2216.9   10057.7    2220.7   10067.2    2220.7   10068.5
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	2	3193	3193							
NC	.05	.05	.035							
ET			4.1	9941.6	10024.3					
X1	1970	18	9941.6	10024.3	320	320	320			
GR	2235.8	9771.7	2231.4	9801.5	2229.3	9839.7	2227.7	9890.4	2225.7	9916.1
GR	2221.2	9930.2	2216.5	9941.6	2217.2	9957.4	2216.5	9977.3	2215.5	9986.6
GR	2213.3	9993.8	2213.1	10000.0	2214.0	10013.9	2217.1	10024.3	2222.2	10027.8
GR	2224.2	10051.5	2226.7	10091.4	2228.1	10101.2				
NC	.045	.045	.03							
ET			4.1	9980.1	10030.9					
X1	2100	14	9980.1	10030.9	690	690	690			
GR	2244.6	9878.3	2243.9	9911.9	2243.1	9952.0	2237.9	9967.5	2235.6	9969.1
GR	2230.6	9980.1	2228.3	9984.0	2227.9	10000.0	2228.3	10021.6	2228.6	10027.8
GR	2232.5	10030.9	2244.1	10057.3	2245.7	10075.3	2246.6	10098.8		
ET			4.1	9974.6	10012.6					
X1	2170	11	9987.2	10011.2	300	490	370			
GR	2252.4	9922.2	2246.3	9947.2	2239.3	9963.9	2235.4	9987.2	2232.4	9999.1
GR	2232.9	10000.0	2234.1	10011.2	2239.0	10019.0	2247.5	10025.5	2250.0	10042.3
GR	2253.4	10053.7								
ET			4.1	9956.3	10016.2					
X1	2270	20	9956.3	10016.2	530	530	530			
GR	2273.5	9814.5	2272.9	9860.4	2271.1	9897.2	2268.1	9921.5	2262.6	9936.1
GR	2253.3	9951.3	2251.1	9956.3	2248.3	9964.4	2247.3	9969.6	2248.9	9978.5
GR	2247.3	9988.8	2247.7	10000.0	2249.5	10016.2	2253.5	10029.1	2257.9	10043.4
GR	2259.2	10045.7	2263.3	10064.2	2264.4	10091.7	2266.0	10125.1	2267.8	10146.0
NC	.045	.045	.04							
ET			4.1	9976.7	10072.6					
X1	2360	18	9976.7	10072.6	475	475	475			
GR	2280.1	9909.0	2264.5	9940.2	2265.1	9940.9	2260.5	9961.9	2259.7	9976.7
GR	2257.3	9987.3	2256.5	10000.0	2257.8	10014.4	2258.6	10026.7	2257.1	10040.0
GR	2257.5	10055.2	2261.0	10072.6	2264.9	10085.5	2267.7	10103.4	2269.5	10133.3
GR	2272.5	10175.2	2275.4	10202.9	2281.7	10226.8				
NC	.045	.045	.03							
ET			4.1	9917.0	10011.0					
X1	2450	18	9962.5	10011.0	475	475	475			
GR	2290.8	9757.4	2285.8	9808.1	2282.0	9838.9	2276.9	9860.3	2278.0	9877.0
GR	2273.3	9888.1	2271.7	9893.8	2270.4	9917.2	2271.2	9943.0	2272.1	9962.5
GR	2270.8	9980.6	2269.0	9988.1	2267.0	9995.5	2267.0	10000.0	2268.1	10011.0
GR	2274.2	10022.1	2289.4	10041.7	2291.3	10044.3				
NC	.045	.045	.035							
ET			4.1	9985.4	10022.2					
X1	2510	13	9986.8	10008.4	320	320	320			
GR	2294.8	9936.9	2285.6	9960.1	2281.8	9966.3	2278.7	9975.9	2273.8	9986.8
GR	2272.9	9993.3	2271.6	9999.3	2271.4	10000.0	2272.6	10008.4	2276.3	10023.9
GR	2281.4	10034.9	2288.5	10057.6	2291.5	10070.4				

NC	.05	.05	.035							
ET			4.1	9963.0	10024.6					
X1	2570	18	9969.5	10024.6	340	220	320			
GR	2299.7	9687.1	2297.4	9728.0	2294.1	9775.4	2291.2	9821.4	2288.4	9861.7
GR	2287.9	9907.6	2286.1	9943.9	2284.1	9963.2	2284.9	9969.5	2283.9	9986.7
GR	2282.4	10000.0	2281.0	10010.6	2279.5	10024.6	2293.5	10039.9	2294.6	10054.7
GR	2292.5	10065.0	2296.9	10078.8	2301.2	10088.6				
ET			4.1	9980.3	10087.4					
X1	2680	17	9980.3	10012.9	465	645	580			
GR	2319.3	9935.2	2313.0	9951.2	2305.1	9963.0	2301.8	9973.3	2300.9	9980.3
GR	2298.3	9991.3	2296.1	10000.0	2296.9	10005.8	2300.4	10012.9	2299.9	10031.6
GR	2299.7	10076.5	2299.4	10108.2	2299.6	10127.5	2302.8	10154.0	2306.8	10182.6
GR	2313.7	10211.8	2317.5	10234.0						
NH	4	999	9950.4	.05	9975.9	.035	10036.3	.05	10239.3	
ET			4.1	9975.9	10036.3					
X1	2780	23	9975.9	10036.3	530	530	530			
GR	2327.2	9740.8	2317.8	9761.8	2312.7	9784.1	2311.3	9805.3	2312.1	9830.1
GR	2313.8	9879.0	2314.3	9918.8	2314.8	9950.4	2314.2	9969.5	2313.3	9975.9
GR	2308.8	9987.0	2305.9	9996.1	2305.2	10000.0	2308.1	10013.8	2311.1	10036.3
GR	2312.8	10041.4	2316.0	10064.9	2315.9	10094.4	2315.1	10139.4	2315.7	10182.7
GR	2317.5	10210.5	2327.6	10234.9	2332.7	10239.3				
NC	.05	.05	.035							
ET			4.1	9973.1	10010.3					
X1	2850	14	9973.1	10010.3	370	370	370			
GR	2339.4	9890.1	2339.8	9915.7	2335.8	9935.2	2323.5	9956.5	2316.9	9973.1
GR	2315.7	9979.5	2315.4	9979.6	2314.2	9995.7	2314.8	10000.0	2316.1	10010.3
GR	2322.3	10015.5	2327.7	10032.2	2329.0	10059.3	2329.0	10090.7		
QT	2	2932	2932							
NC	.045	.045	.04							
ET			4.1	9980.8	10041.6					
X1	2930	15	9980.8	10041.6	515	320	420			
GR	2349.2	9930.5	2346.0	9947.3	2335.6	9971.6	2332.1	9980.8	2330.3	9995.5
GR	2329.5	10000.0	2329.0	10015.4	2330.2	10032.2	2331.8	10041.6	2333.8	10045.5
GR	2339.4	10070.1	2340.2	10095.0	2342.2	10115.4	2345.8	10140.2	2348.7	10149.1
NC	.05	.05	.04							
ET			4.1	9979.2	10015.6					
X1	2990	11	9989.2	10015.6	320	320	320			
GR	2345.0	9915.7	2349.1	9938.8	2346.3	9960.5	2343.7	9974.4	2340.7	9989.2
GR	2338.2	9999.1	2339.1	10000.0	2341.2	10015.6	2349.4	10036.9	2353.6	10059.6
GR	2356.4	10082.1								
NC	.06	.06	.045							
ET			4.1	9984.7	10026.2					
X1	3050	15	9994.4	10025.3	340	200	320			
GR	2372.6	9894.3	2368.7	9925.2	2364.9	9930.6	2358.6	9961.4	2355.3	9980.8
GR	2352.8	9994.4	2351.2	10000.0	2351.5	10010.6	2353.7	10025.3	2357.5	10043.6
GR	2359.0	10074.0	2360.8	10099.2	2362.2	10129.8	2362.2	10155.6	2362.7	10168.2

NC	.055	.055	.04							
ET			4.1	9945.0	10018.0					
X1	3140	13	9997.7	10018.0	475	475	475			
GR	2383.7	9766.8	2379.4	9839.2	2372.1	9877.6	2368.2	9906.9	2366.1	9933.4
GR	2366.8	9950.2	2366.9	9978.7	2366.0	9997.7	2365.1	10000.0	2363.8	10014.9
GR	2363.6	10018.0	2392.2	10047.0	2394.7	10054.0				
NH	4	.055	9984.3	.04	10014.3	.055	10028.6	999	10264.5	
ET			4.1	9943.9	10055.3					
X1	3230	25	9984.3	10014.3	480	480	480			
GR	2398.0	9838.6	2394.4	9867.4	2389.1	9888.5	2383.1	9918.8	2381.5	9937.6
GR	2379.6	9961.4	2378.3	9972.7	2376.1	9984.3	2374.9	9991.3	2374.3	9997.4
GR	2373.8	10000.0	2374.6	10005.5	2377.4	10014.3	2378.2	10028.6	2377.5	10063.6
GR	2377.6	10096.7	2380.2	10122.7	2380.7	10148.7	2380.8	10174.6	2381.3	10184.7
GR	2381.1	10197.6	2383.2	10201.4	2384.6	10218.1	2387.9	10246.7	2395.2	10264.5
NC	.055	.055	.04							
ET			4.1	9970.9	10007.2					
X1	3310	23	9970.9	10007.2	420	420	420			
GR	2440.0	9850.5	2426.6	9887.6	2412.0	9913.5	2399.5	9938.6	2393.3	9954.7
GR	2387.9	9970.9	2387.2	9976.7	2386.0	9981.4	2385.8	9989.6	2385.6	9995.9
GR	2385.1	9999.1	2386.0	10000.0	2387.1	10007.2	2391.3	10019.0	2391.8	10034.0
GR	2396.7	10053.6	2398.4	10077.7	2400.1	10088.1	2401.0	10095.5	2400.3	10118.5
GR	2403.6	10121.4	2406.5	10142.6	2411.7	10155.5				
ET			4.1	9974.0	10012.8					
X1	3390	12	9982.5	10012.8	420	420	420			
GR	2421.6	9894.0	2408.4	9936.7	2399.6	9974.1	2398.0	9982.5	2395.3	9992.4
GR	2394.4	9999.3	2394.0	10000.0	2395.6	10007.4	2398.4	10012.8	2406.9	10018.4
GR	2419.2	10034.5	2424.4	10045.2						
NC	.055	.055	.035							
ET			9.1						9971.0	10017.0
X1	3490	17	9988.0	10017.0	530	530	530			
GR	2440.7	9893.6	2428.8	9930.7	2419.9	9960.5	2412.4	9972.5	2409.1	9988.0
GR	2407.4	9993.0	2406.5	9998.5	2406.5	10000.0	2407.7	10006.1	2410.6	10017.0
GR	2415.1	10025.3	2421.5	10054.2	2424.0	10077.0	2424.5	10099.2	2423.9	10110.8
GR	2428.3	10128.2	2433.4	10140.4						
ET			4.1	9983.2	10006.2					
X1	3590	10	9990.9	10006.2	530	530	530			
GR	2441.4	9951.5	2428.6	9970.8	2425.0	9983.2	2422.4	9990.9	2420.3	9996.4
GR	2420.4	10000.0	2421.7	10006.2	2432.0	10014.3	2439.8	10033.1	2445.7	10046.7
NC	.055	.055	.04							
ET			4.1	9967.4	10006.2					
X1	3680	11	9989.2	10005.9	480	480	480			
GR	2441.4	9931.0	2440.3	9965.1	2439.9	9967.2	2438.2	9981.5	2434.0	9989.2
GR	2432.8	9996.0	2433.0	10000.0	2434.3	10005.9	2440.8	10013.3	2453.6	10025.2
GR	2457.8	10036.0								

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[illegible]  2     2027     2027
ET                     4.1    9974.0   10016.4
X1    3810       23   9975.0   10016.4      690      690      690
GR  2480.0   9821.6   2478.0    9843.9   2469.3   9886.8   2465.9   9917.5   2463.2   9940.6
GR  2461.5   9964.8   2460.3    9975.0   2459.3   9984.9   2458.4   9992.4   2458.8  10000.0
GR  2460.0  10013.6   2459.8   10016.4   2462.2  10033.0   2464.0  10046.4   2468.7  10053.5
GR  2470.4  10077.3   2471.9   10107.2   2473.0  10137.0   2473.3  10163.5   2471.3  10176.6
GR  2473.9  10193.9   2478.2   10229.6   2480.7  10250.1

ET                     4.1    9980.9   10035.2
X1    3940       26   9980.9   10035.2      670      710      690
GR  2498.7   9827.8   2496.5    9829.7   2492.8   9831.4   2493.1   9843.6   2491.5   9853.0
GR  2488.0   9862.6   2487.3    9872.7   2486.8   9886.0   2485.8   9916.7   2483.1   9950.5
GR  2480.6   9980.9   2479.9    9986.0   2479.3   9999.2   2478.9  10000.0   2479.5  10014.0
GR  2480.2  10035.2   2481.5   10060.0   2483.4  10079.0   2484.8  10098.5   2486.1  10129.2
GR  2488.6  10157.5   2491.1   10179.3   2494.0  10203.7   2496.2  10225.1   2497.7  10245.7
GR  2499.1  10254.2

ET                     4.1    9990.6   10016.0
X1    4040       16   9990.6   10016.0      530      530      530
GR  2513.5   9952.9   2511.4    9966.6   2504.1   9980.8   2497.3   9990.6   2494.2   9997.7
GR  2493.4  10000.0   2493.9   10004.7   2497.2  10013.8   2498.4  10016.0   2500.4  10038.7
GR  2503.7  10052.9   2509.7   10070.5   2513.6  10091.4   2514.2  10109.5   2515.9  10130.3
GR  2517.3  10144.0

ET                     4.1    9979.5   10007.5
X1    4160       18   9981.0   10007.5      610      610      630
[illegible] 2564.1   9861.7   2549.6    9887.7   2534.0   9911.0   2524.0   9928.8   2517.8   9948.3
[illegible] 2515.7   9957.2   2514.7    9973.5   2513.3   9981.0   2511.7   9992.1   2510.4   9998.8
GR  2510.3  10000.0   2511.3   10007.5   2519.6  10012.0   2531.5  10031.9   2534.4  10048.1
GR  2534.8  10082.8   2534.5   10118.1   2535.0  10147.0

ET                     4.1   10007.2   10118.0
X1    4240       22  10019.1   10118.0      440      400      420
GR  2549.7   9838.8   2544.9    9867.3   2539.5   9894.6   2534.2   9923.7   2531.8   9956.9
GR  2531.1   9978.9   2532.4   10000.0   2532.6  10019.1   2532.1  10039.5   2531.8  10054.4
GR  2531.6  10073.2   2532.1   10098.0   2532.9  10118.0   2535.0  10138.5   2537.1  10157.4
GR  2538.9  10169.8   2542.0   10190.2   2543.8  10218.0   2547.0  10252.7   2547.5  10280.8
GR  2549.0  10313.9   2548.6   10315.0

QT       2      724      724
NC    .065     .065      .05
ET                     4.1    9991.6   10019.7
X1    4310       17   9993.9   10019.7      370      370      370
GR  2556.2   9835.4   2551.7    9868.1   2546.2   9909.9   2543.0   9938.2   2542.3   9956.3
GR  2542.2   9974.0   2541.7    9993.9   2540.2  10000.0   2539.9  10006.7   2540.9  10013.9
GR  2543.2  10019.7   2545.1   10046.6   2546.4  10068.8   2550.7  10082.2   2558.4  10091.2
GR  2559.3  10115.8   2559.9   10131.1
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NC	.065	.065	.06							
ET			4.1	9978.1	10006.8					
X1	4380	18	9978.1	10006.8	350	220	320			
GR	2572.6	9941.5	2559.5	9966.0	2552.4	9978.1	2552.2	9980.8	2551.3	9990.7
GR	2549.5	10000.0	2551.1	10006.8	2553.6	10013.0	2556.4	10029.2	2559.9	10044.6
GR	2559.5	10064.4	2560.9	10082.1	2563.0	10095.4	2569.1	10113.4	2571.6	10131.0
GR	2572.0	10151.8	2570.7	10181.3	2570.8	10188.9				
NC	.08	.08	.06							
ET			4.1	10000.2	10026.2					
X1	4490	12	10015.8	10026.2	550	610	580			
GR	2597.1	9914.9	2587.1	9945.9	2581.1	9970.9	2580.3	9981.6	2578.1	10000.0
GR	2579.6	10015.8	2577.5	10017.0	2577.5	10026.2	2587.5	10038.4	2592.3	10056.1
GR	2595.5	10075.8	2597.0	10094.0						
ET			4.1	9993.0	10006.7					
X1	4600	11	9993.0	10000.0	580	580	580			
GR	2636.0	9958.9	2626.0	9979.8	2619.2	9986.1	2611.3	9993.0	2611.3	9997.8
GR	2611.5	10000.0	2612.8	10006.6	2614.6	10015.1	2621.1	10017.1	2628.6	10035.2
GR	2639.6	10055.0								
NC	.055	.055	.04							
ET			4.1	9985.1	10008.0					
X1	4690	12	9985.1	10008.0	490	460	480			
GR	2699.6	9886.7	2683.1	9941.9	2676.0	9971.2	2671.2	9985.1	2669.4	9997.0
GR	2668.5	10000.0	2670.5	10008.0	2680.1	10014.9	2688.6	10038.6	2715.6	10069.7
GR	2739.0	10108.9	2748.3	10116.9						
ET			4.1	9983.7	10001.6					
X1	4770	9	9989.8	10000.0	430	430	430			
GR	2741.8	9937.3	2725.1	9961.6	2718.2	9982.5	2716.7	9989.8	2716.0	10000.0
GR	2719.6	10006.6	2726.6	10010.8	2741.6	10028.8	2756.9	10039.4		
NC	.05	.05	.04							
ET			4.1	9993.0	10006.8					
X1	4850	14	9993.0	10006.8	420	420	420			
GR	2769.4	9944.5	2761.2	9968.4	2757.9	9976.7	2752.4	9993.0	2750.6	9999.0
GR	2749.5	10000.0	2752.0	10006.8	2758.7	10018.5	2761.6	10022.8	2761.1	10034.0
GR	2763.0	10046.6	2774.5	10065.8	2785.4	10088.3	2793.5	10107.4		
QT	2	362	362							
NC	.06	.06	.05							
ET			9.1						10000.0	10018.0
X1	4950	11	9998.3	10018.0	520	540	530			
GR	2806.5	9963.3	2796.1	9980.7	2791.0	9998.3	2787.5	10000.0	2788.1	10005.6
GR	2789.3	10018.0	2793.2	10028.9	2794.9	10031.8	2798.5	10056.7	2800.8	10082.9
GR	2801.7	10084.1								

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N     .08       .08       .06
ET                        4.1    9992.8   10023.6
X1    5020        10    9992.8   10023.6       370       370       370
GR  2835.1    9947.2    2826.3    9969.9    2820.8    9980.2    2817.6    9992.8    2815.4   10000.0
GR  2816.4   10010.6    2817.9   10023.6    2823.3   10029.2    2829.3   10052.0    2834.1   10064.4

ET                        4.1    9986.0    9997.7
X1    5100        12    9986.0    9997.7       440       400       420
GR  2869.8    9949.9    2862.4    9967.2    2855.0    9982.1    2850.0    9986.0    2848.8    9991.2
GR  2848.8    9997.7    2850.4   10000.0    2856.5   10008.4    2861.6   10014.0    2867.2   10028.2
GR  2874.5   10053.3    2877.7   10077.7

ET                        4.1    9992.6   10002.5
X1    5180        13    9996.2   10000.0       420       420       420
GR  2910.9    9943.1    2903.1    9957.1    2899.6    9970.5    2899.3    9971.4    2891.3    9987.9
GR  2887.5    9996.2    2886.8   10000.0    2895.8   10012.5    2900.6   10021.0    2904.4   10036.8
GR  2905.6   10053.3    2915.3   10076.3    2917.5   10081.0

NC     .07       .07       .05
ET                        4.1    9998.7   10011.1
X1    5240        11    9998.7   10011.1       320       320       320
GR  2962.9    9953.9    2959.7    9965.2    2952.1    9980.4    2942.6    9987.5    2941.8    9998.7
GR  2937.4   10000.0    2940.2   10011.1    2945.7   10020.0    2949.5   10034.6    2953.0   10050.9
GR  2952.4   10058.5

ET                        4.1    9996.3   10005.4
X1    5310         8   10000.0   10004.4       380       360       370
GR  3020.9    9951.5    3015.5    9975.3    3006.8    9991.8    3002.0   10000.0    3002.7   10004.4
GR  3010.7   10014.4    3015.9   10020.9    3018.9   10046.3
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      FLOOD CONTROL DISTRICT OF MARICOPA CO. - LA027815.H2
      100-YEAR FLOOD FREQUENCY MODEL, (ENCROACHMENT CONDITIONS)
T3    WILLOW SPRINGS WASH (WS.MCE)

J1  ICHECK   INQ     NINV    IDIR    STRT    METRIC  HVINS   Q       WSEL    FQ

             3                                                    2189.22

J2  NPROF    IPLOT   PRFVS   XSECV   XSECH   FN      ALLDC   IBW     CHNIM   ITRACE

    15               -1
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THIS RUN EXECUTED 4/10/90 16:40:34

****
HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989

ERROR CORR - 01,02,03
MODIFICATION -
****

NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

WILLOW SPRINGS WASH (W

SUMMARY PRINTOUT

	SECNO	Q	VCH	DEPTH	ELMIN	XLCH	CWSEL	.01K	TOPWID	SSTA	STCHL	STCHR	ENDST
	1780.000	4682.00	14.08	8.92	2179.30	.00	2188.22	742.83	76.12	9954.80	9981.40	10019.10	10030.92
	1780.000	4682.00	13.55	9.92	2179.30	.00	2189.22	745.42	49.90	9969.20	9981.40	10019.10	10019.10
*	1910.000	4682.00	14.15	10.41	2199.00	690.00	2209.41	700.87	76.36	9959.96	9976.60	10018.50	10036.32
*	1910.000	4682.00	15.45	10.55	2199.00	690.00	2209.55	609.91	43.60	9976.60	9976.60	10018.50	10020.20
	1970.000	3193.00	10.75	6.00	2213.10	320.00	2219.10	291.79	90.39	9935.28	9941.60	10024.30	10025.68
	970.000	3193.00	10.75	6.04	2213.10	320.00	2219.14	283.04	82.70	9941.60	9941.60	10024.30	10024.30
*	2100.000	3193.00	12.49	5.48	2227.90	690.00	2233.38	357.59	58.91	9973.99	9980.10	10030.90	10032.90
*	2100.000	3193.00	12.71	5.44	2227.90	690.00	2233.34	334.77	50.80	9980.10	9980.10	10030.90	10030.90
*	2170.000	3193.00	14.12	8.57	2232.40	370.00	2240.97	415.07	60.58	9959.93	9987.20	10011.20	10020.50
*	2170.000	3193.00	15.66	8.68	2232.40	370.00	2241.08	378.18	38.00	9974.60	9987.20	10011.20	10012.60
*	2270.000	3193.00	11.73	5.45	2247.30	530.00	2252.75	360.20	74.13	9952.55	9956.30	10016.20	10026.68
*	2270.000	3193.00	12.04	5.44	2247.30	530.00	2252.74	332.82	59.90	9956.30	9956.30	10016.20	10016.20
*	2360.000	3193.00	9.96	4.67	2256.50	475.00	2261.17	261.13	114.36	9958.82	9976.70	10072.60	10073.18
*	2360.000	3193.00	10.32	4.63	2256.50	475.00	2261.13	246.94	95.90	9976.70	9976.70	10072.60	10072.60
*	2450.000	3193.00	11.20	6.45	2267.00	475.00	2273.45	356.58	132.98	9887.75	9962.50	10011.00	10020.73
*	2450.000	3193.00	11.64	6.78	2267.00	475.00	2273.78	336.21	94.00	9917.00	9962.50	10011.00	10011.00
*	2510.000	3193.00	14.36	8.18	2271.40	320.00	2279.58	345.97	57.78	9973.19	9986.80	10008.40	10030.96
*	2510.000	3193.00	16.10	8.27	2271.40	320.00	2279.67	311.26	36.80	9985.40	9986.80	10008.40	10022.20
*	2570.000	3193.00	11.23	7.48	2279.50	320.00	2286.98	325.86	106.70	9926.08	9969.50	10024.60	10032.78
*	2570.000	3193.00	12.19	7.62	2279.50	320.00	2287.12	280.99	61.60	9963.00	9969.50	10024.60	10024.60
*	2680.000	3193.00	10.99	6.11	2296.10	580.00	2302.21	302.30	177.09	9972.02	9980.30	10012.90	10149.11
*	2680.000	3193.00	12.21	6.62	2296.10	580.00	2302.72	284.91	107.10	9980.30	9980.30	10012.90	10087.40

	SECNO	Q	VCH	DEPTH	ELMIN	XLCH	CWSEL	.01K	TOPWID	SSTA	STCHL	STCHR	ENDST
*	2780.000	3193.00	11.89	7.81	2305.20	530.00	2313.01	303.56	140.01	9782.73	9975.90	10036.30	10042.97
*	2780.000	3193.00	12.09	7.76	2305.20	530.00	2312.96	290.72	59.56	9976.73	9975.90	10036.30	10036.30
*	2850.000	3193.00	13.51	7.05	2314.20	370.00	2321.25	329.98	52.46	9962.16	9973.10	10010.30	10014.62
*	2850.000	3193.00	14.10	7.09	2314.20	370.00	2321.29	273.12	37.20	9973.10	9973.10	10010.30	10010.30
*	2930.000	2932.00	11.29	5.33	2329.00	420.00	2334.33	249.71	72.87	9974.95	9980.80	10041.60	10047.81
*	2930.000	2932.00	11.62	5.29	2329.00	420.00	2334.29	229.69	60.80	9980.80	9980.80	10041.60	10041.60
*	2990.000	2932.00	12.85	8.13	2338.20	320.00	2346.33	288.95	76.13	9915.70	9989.20	10015.60	10028.92
*	2990.000	2932.00	14.72	8.15	2338.20	320.00	2346.35	225.14	36.40	9979.20	9989.20	10015.60	10015.60
*	3050.000	2932.00	12.19	6.84	2351.20	320.00	2358.04	259.46	89.87	9964.69	9994.40	10025.30	10054.55
*	3050.000	2932.00	14.24	6.83	2351.20	320.00	2358.03	221.73	41.50	9984.70	9994.40	10025.30	10026.20
*	3140.000	2932.00	12.54	5.93	2363.60	475.00	2369.53	254.49	127.11	9896.90	9997.70	10018.00	10024.01
*	3140.000	2932.00	13.11	6.49	2363.60	475.00	2370.09	217.25	73.00	9945.00	9997.70	10018.00	10018.00
*	3230.000	2932.00	12.53	7.20	2373.80	480.00	2381.00	279.84	234.81	9943.85	9984.30	10014.30	10178.66
*	3230.000	2932.00	12.31	7.27	2373.80	480.00	2381.07	286.86	111.40	9943.90	9984.30	10014.30	10055.30
*	3310.000	2932.00	12.26	7.04	2385.10	420.00	2392.14	284.80	77.19	9958.17	9970.90	10007.20	10035.37
*	3310.000	2932.00	13.76	7.06	2385.10	420.00	2392.16	218.88	36.30	9970.90	9970.90	10007.20	10007.20
*	3390.000	2932.00	13.49	8.32	2394.00	420.00	2402.32	273.64	52.83	9962.55	9982.50	10012.80	10015.38
*	3390.000	2932.00	13.98	8.22	2394.00	420.00	2402.22	242.18	38.80	9974.00	9982.50	10012.80	10012.80
	3490.000	2932.00	13.63	7.92	2406.50	530.00	2414.42	309.05	54.77	9969.27	9988.00	10017.00	10024.04
*	3490.000	2932.00	13.68	7.94	2406.50	530.00	2414.44	284.87	46.00	9971.00	9988.00	10017.00	10017.00
*	3590.000	2932.00	15.75	9.84	2420.30	530.00	2430.14	338.23	44.37	9968.47	9990.90	10006.20	10012.84
*	3590.000	2932.00	17.67	9.96	2420.30	530.00	2430.26	227.76	23.00	9983.20	9990.90	10006.20	10006.20
*	3680.000	2932.00	13.61	9.45	2432.80	480.00	2442.25	339.74	83.65	9931.00	9989.20	10005.90	10014.65
*	3680.000	2932.00	15.76	9.36	2432.80	480.00	2442.16	291.57	38.80	9967.40	9989.20	10005.90	10006.20
*	3810.000	2027.00	10.05	4.85	2458.40	690.00	2463.25	187.20	100.63	9940.18	9975.00	10016.40	10040.81
*	3810.000	2027.00	11.70	5.05	2458.40	690.00	2463.45	157.21	42.40	9974.00	9975.00	10016.40	10016.40
*	3940.000	2027.00	9.56	3.93	2478.90	690.00	2482.83	170.07	119.52	9953.78	9980.90	10035.20	10073.30
*	3940.000	2027.00	10.69	4.24	2478.90	690.00	2483.14	151.77	54.30	9980.90	9980.90	10035.20	10035.20
*	4040.000	2027.00	11.92	7.86	2493.40	530.00	2501.26	199.19	57.51	9984.89	9990.60	10016.00	10042.40
*	4040.000	2027.00	13.78	7.68	2493.40	530.00	2501.08	146.32	25.40	9990.60	9990.60	10016.00	10016.00
*	4160.000	2027.00	11.89	6.74	2510.30	630.00	2517.04	195.54	59.10	9951.51	9981.00	10007.50	10010.61
*	4160.000	2027.00	13.55	6.84	2510.30	630.00	2517.14	152.24	28.00	9979.50	9981.00	10007.50	10007.50
*	4240.000	2027.00	7.89	2.54	2531.10	420.00	2533.64	128.85	193.76	9931.46	10019.10	10118.00	10125.22
*	4240.000	2027.00	8.66	3.21	2531.10	420.00	2534.31	147.52	110.80	10007.20	10019.10	10118.00	10118.00

	SECNO	Q	VCH	DEPTH	ELMIN	XLCH	CWSEL	.01K	TOPWID	SSTA	STCHL	STCHR	ENDST
*	4310.000	724.00	7.73	3.46	2539.90	370.00	2543.36	50.99	86.88	9935.04	9993.90	10019.70	10021.93
*	4310.000	724.00	9.60	3.76	2539.90	370.00	2543.66	43.76	28.10	9991.60	9993.90	10019.70	10019.70
*	4380.000	724.00	8.94	4.17	2549.50	320.00	2553.67	38.05	37.46	9975.94	9978.10	10006.80	10013.40
	4380.000	724.00	8.65	4.43	2549.50	320.00	2553.93	38.17	28.70	9978.10	9978.10	10006.80	10006.80
*	4490.000	724.00	9.80	3.43	2577.50	580.00	2580.93	37.69	57.15	9973.23	10015.80	10026.20	10030.38
*	4490.000	724.00	11.02	3.91	2577.50	580.00	2581.41	30.29	26.00	10000.20	10015.80	10026.20	10026.20
*	4600.000	724.00	12.20	4.57	2611.30	580.00	2615.87	40.27	26.48	9989.01	9993.00	10000.00	10015.49
*	4600.000	724.00	12.32	4.88	2611.30	580.00	2616.18	29.29	13.70	9993.00	9993.00	10000.00	10006.70
*	4690.000	724.00	9.87	4.46	2668.50	480.00	2672.96	57.30	29.77	9980.00	9985.10	10008.00	10009.77
*	4690.000	724.00	10.15	4.46	2668.50	480.00	2672.96	49.90	22.90	9985.10	9985.10	10008.00	10008.00
*	4770.000	724.00	11.23	4.40	2716.00	430.00	2720.40	60.72	31.23	9975.85	9989.80	10000.00	10007.08
*	4770.000	724.00	12.91	4.68	2716.00	430.00	2720.68	55.28	17.90	9983.70	9989.80	10000.00	10001.60
*	4850.000	724.00	10.69	5.79	2749.50	420.00	2755.29	62.64	28.13	9984.42	9993.00	10006.80	10012.55
*	4850.000	724.00	11.99	5.90	2749.50	420.00	2755.40	44.79	13.80	9993.00	9993.00	10006.80	10006.80
*	4950.000	362.00	8.22	3.17	2787.50	530.00	2790.67	20.70	23.38	9998.46	9998.30	10018.00	10021.84
*	4950.000	362.00	8.69	3.23	2787.50	530.00	2790.73	18.52	18.00	10000.00	9998.30	10018.00	10018.00
*	5020.000	362.00	7.23	2.79	2815.40	370.00	2818.19	16.94	33.41	9990.49	9992.80	10023.60	10023.90
*	5020.000	362.00	7.33	2.77	2815.40	370.00	2818.17	16.31	30.80	9992.80	9992.80	10023.60	10023.60
*	5100.000	362.00	9.50	3.18	2848.80	420.00	2851.98	19.09	17.72	9984.46	9986.00	9997.70	10002.17
*	5100.000	362.00	10.04	3.35	2848.80	420.00	2852.15	14.55	11.70	9986.00	9986.00	9997.70	9997.70
*	5180.000	362.00	11.47	4.76	2886.80	420.00	2891.56	20.79	19.25	9987.36	9996.20	10000.00	10006.61
*	5180.000	362.00	14.11	4.81	2886.80	420.00	2891.61	17.02	9.90	9992.60	9996.20	10000.00	10002.50
*	5240.000	362.00	9.57	4.47	2937.40	320.00	2941.87	19.65	16.14	9997.67	9998.70	10011.10	10013.81
*	5240.000	362.00	9.89	4.44	2937.40	320.00	2941.84	17.67	12.40	9998.70	9998.70	10011.10	10011.10
*	5310.000	362.00	11.43	4.77	3002.00	370.00	3006.77	25.16	17.65	9991.84	10000.00	10004.40	10009.49
*	5310.000	362.00	13.79	4.80	3002.00	370.00	3006.80	20.95	9.10	9996.30	10000.00	10004.40	10005.40

LOW SPRINGS WASH (W

SUMMARY PRINTOUT

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	STENCL	STCHL	STCHR	STENCR	10*KS	EG	DIFEG
	1780.000	4682.00	2188.22	.00	.00	.00	9981.40	10019.10	.00	39.73	2190.88	.00
	1780.000	4682.00	2189.22	1.00	.00	9969.20	9981.40	10019.10	10019.10	39.45	2191.88	1.00
*	1910.000	4682.00	2209.41	.00	21.19	.00	9976.60	10018.50	.00	44.63	2212.23	.00
*	1910.000	4682.00	2209.55	.14	20.33	9976.60	9976.60	10018.50	10020.20	58.93	2213.23	1.00
*	1970.000	3193.00	2219.10	.00	9.69	.00	9941.60	10024.30	.00	119.75	2220.88	.00
*	1970.000	3193.00	2219.14	.04	9.59	9941.60	9941.60	10024.30	10024.30	127.26	2220.94	.05
*	2100.000	3193.00	2233.38	.00	14.27	.00	9980.10	10030.90	.00	79.73	2235.78	.00
*	2100.000	3193.00	2233.34	-.04	14.20	9980.10	9980.10	10030.90	10030.90	90.97	2235.85	.07
*	2170.000	3193.00	2240.97	.00	7.59	.00	9987.20	10011.20	.00	59.18	2243.48	.00
*	2170.000	3193.00	2241.08	.11	7.74	9974.60	9987.20	10011.20	10012.60	71.29	2244.48	1.00
*	2270.000	3193.00	2252.75	.00	11.78	.00	9956.30	10016.20	.00	78.58	2254.84	.00
*	2270.000	3193.00	2252.74	-.01	11.66	9956.30	9956.30	10016.20	10016.20	92.04	2254.99	.15
*	2360.000	3193.00	2261.17	.00	8.42	.00	9976.70	10072.60	.00	149.51	2262.69	.00
*	2360.000	3193.00	2261.13	-.05	8.39	9976.70	9976.70	10072.60	10072.60	167.19	2262.78	.10
	2450.000	3193.00	2273.45	.00	12.27	.00	9962.50	10011.00	.00	80.18	2274.92	.00
	2450.000	3193.00	2273.78	.33	12.65	9917.00	9962.50	10011.00	10011.00	90.19	2275.54	.61
*	2510.000	3193.00	2279.58	.00	6.13	.00	9986.80	10008.40	.00	85.18	2282.08	.00
*	2510.000	3193.00	2279.67	.09	5.89	9985.40	9986.80	10008.40	10022.20	105.23	2283.08	1.00
*	2570.000	3193.00	2286.98	.00	7.41	.00	9969.50	10024.60	.00	96.02	2288.73	.00
*	2570.000	3193.00	2287.12	.14	7.45	9963.00	9969.50	10024.60	10024.60	129.13	2289.37	.64
*	2680.000	3193.00	2302.21	.00	15.23	.00	9980.30	10012.90	.00	111.56	2303.32	.00
*	2680.000	3193.00	2302.72	.51	15.60	9980.30	9980.30	10012.90	10087.40	125.60	2304.32	1.00
*	2780.000	3193.00	2313.01	.00	10.80	.00	9975.90	10036.30	.00	110.64	2315.20	.00
*	2780.000	3193.00	2312.96	-.05	10.24	9975.90	9975.90	10036.30	10036.30	120.63	2315.23	.04
*	2850.000	3193.00	2321.25	.00	8.24	.00	9973.10	10010.30	.00	93.63	2323.96	.00
*	2850.000	3193.00	2321.29	.04	8.33	9973.10	9973.10	10010.30	10010.30	136.68	2324.38	.42
*	2930.000	2932.00	2334.33	.00	13.08	.00	9980.80	10041.60	.00	137.87	2336.27	.00
*	2930.000	2932.00	2334.29	-.04	13.00	9980.80	9980.80	10041.60	10041.60	162.94	2336.38	.11
*	2990.000	2932.00	2346.33	.00	12.00	.00	9989.20	10015.60	.00	102.97	2348.40	.00
*	2990.000	2932.00	2346.35	.02	12.06	9979.20	9989.20	10015.60	10015.60	169.60	2349.41	1.01
*	3050.000	2932.00	2358.04	.00	11.71	.00	9994.40	10025.30	.00	127.70	2359.92	.00
*	3050.000	2932.00	2358.03	-.01	11.68	9984.70	9994.40	10025.30	10026.20	174.85	2360.93	1.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	STENCL	STCHL	STCHR	STENCR	10*KS	EG	DIFEG
*	3140.000	2932.00	2369.53	.00	11.49	.00	9997.70	10018.00	.00	132.73	2370.92	.00
*	3140.000	2932.00	2370.09	.56	12.06	9945.00	9997.70	10018.00	10018.00	182.15	2371.94	1.02
*	3230.000	2932.00	2381.00	.00	11.47	.00	9984.30	10014.30	.00	109.78	2382.91	.00
*	3230.000	2932.00	2381.07	.07	10.98	9943.90	9984.30	10014.30	10055.30	104.47	2382.92	.00
*	3310.000	2932.00	2392.14	.00	11.14	.00	9970.90	10007.20	.00	105.98	2394.25	.00
*	3310.000	2932.00	2392.16	.02	11.09	9970.90	9970.90	10007.20	10007.20	179.44	2395.10	.85
*	3390.000	2932.00	2402.32	.00	10.18	.00	9982.50	10012.80	.00	114.80	2404.93	.00
*	3390.000	2932.00	2402.22	-.10	10.06	9974.00	9982.50	10012.80	10012.80	146.58	2405.09	.17
*	3490.000	2932.00	2414.42	.00	12.10	.00	9988.00	10017.00	.00	90.00	2416.98	.00
*	3490.000	2932.00	2414.44	.02	12.23	9971.00	9988.00	10017.00	10017.00	105.93	2417.05	.07
*	3590.000	2932.00	2430.14	.00	15.73	.00	9990.90	10006.20	.00	75.15	2433.19	.00
*	3590.000	2932.00	2430.26	.12	15.82	9983.20	9990.90	10006.20	10006.20	165.72	2434.57	1.38
*	3680.000	2932.00	2442.25	.00	12.10	.00	9989.20	10005.90	.00	74.48	2444.35	.00
*	3680.000	2932.00	2442.16	-.09	11.90	9967.40	9989.20	10005.90	10006.20	101.12	2445.35	1.00
*	3810.000	2027.00	2463.25	.00	21.00	.00	9975.00	10016.40	.00	117.24	2464.58	.00
*	3810.000	2027.00	2463.45	.20	21.29	9974.00	9975.00	10016.40	10016.40	166.25	2465.57	.98
*	3940.000	2027.00	2482.83	.00	19.58	.00	9980.90	10035.20	.00	142.06	2484.04	.00
*	3940.000	2027.00	2483.14	.31	19.69	9980.90	9980.90	10035.20	10035.20	178.38	2484.91	.87
*	4040.000	2027.00	2501.26	.00	18.43	.00	9990.60	10016.00	.00	103.55	2503.25	.00
*	4040.000	2027.00	2501.08	-.18	17.94	9990.60	9990.60	10016.00	10016.00	191.91	2504.03	.78
*	4160.000	2027.00	2517.04	.00	15.78	.00	9981.00	10007.50	.00	107.46	2518.96	.00
*	4160.000	2027.00	2517.14	.10	16.06	9979.50	9981.00	10007.50	10007.50	177.28	2519.96	1.00
*	4240.000	2027.00	2533.64	.00	16.60	.00	10019.10	10118.00	.00	247.46	2534.44	.00
*	4240.000	2027.00	2534.31	.68	17.17	10007.20	10019.10	10118.00	10118.00	188.80	2535.44	1.00
*	4310.000	724.00	2543.36	.00	9.72	.00	9993.90	10019.70	.00	201.61	2544.07	.00
*	4310.000	724.00	2543.66	.30	9.35	9991.60	9993.90	10019.70	10019.70	273.69	2545.06	1.00
*	4380.000	724.00	2553.67	.00	10.31	.00	9978.10	10006.80	.00	362.07	2554.86	.00
	4380.000	724.00	2553.93	.26	10.27	9978.10	9978.10	10006.80	10006.80	359.86	2555.10	.24
*	4490.000	724.00	2580.93	.00	27.26	.00	10015.80	10026.20	.00	368.97	2581.85	.00
*	4490.000	724.00	2581.41	.49	27.48	10000.20	10015.80	10026.20	10026.20	571.27	2582.87	1.02
*	4600.000	724.00	2615.87	.00	34.94	.00	9993.00	10000.00	.00	323.29	2617.42	.00
*	4600.000	724.00	2616.18	.31	34.77	9993.00	9993.00	10000.00	10006.70	610.81	2618.39	.97
*	4690.000	724.00	2672.96	.00	57.09	.00	9985.10	10008.00	.00	159.64	2674.44	.00
*	4690.000	724.00	2672.96	.00	56.78	9985.10	9985.10	10008.00	10008.00	210.48	2674.56	.12

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	STENCL	STCHL	STCHR	STENCR	10*KS	EG	DIFEG
*	4770.000	724.00	2720.40	.00	47.44	.00	9989.80	10000.00	.00	142.18	2721.83	.00
*	4770.000	724.00	2720.68	.29	47.72	9983.70	9989.80	10000.00	10001.60	171.51	2722.84	1.01
*	4850.000	724.00	2755.29	.00	34.90	.00	9993.00	10006.80	.00	133.61	2756.88	.00
*	4850.000	724.00	2755.40	.11	34.72	9993.00	9993.00	10006.80	10006.80	261.31	2757.63	.76
*	4950.000	362.00	2790.67	.00	35.38	.00	9998.30	10018.00	.00	305.81	2791.70	.00
*	4950.000	362.00	2790.73	.06	35.33	10000.00	9998.30	10018.00	10018.00	381.98	2791.91	.21
*	5020.000	362.00	2818.19	.00	27.51	.00	9992.80	10023.60	.00	456.89	2819.00	.00
*	5020.000	362.00	2818.17	-.02	27.44	9992.80	9992.80	10023.60	10023.60	492.40	2819.01	.01
*	5100.000	362.00	2851.98	.00	33.79	.00	9986.00	9997.70	.00	359.50	2853.27	.00
*	5100.000	362.00	2852.15	.17	33.98	9986.00	9986.00	9997.70	9997.70	618.80	2853.71	.45
*	5180.000	362.00	2891.56	.00	39.58	.00	9996.20	10000.00	.00	303.16	2892.83	.00
*	5180.000	362.00	2891.61	.05	39.46	9992.60	9996.20	10000.00	10002.50	452.23	2893.82	.99
*	5240.000	362.00	2941.87	.00	50.31	.00	9998.70	10011.10	.00	339.49	2943.27	.00
*	5240.000	362.00	2941.84	-.04	50.23	9998.70	9998.70	10011.10	10011.10	419.92	2943.35	.08
*	5310.000	362.00	3006.77	.00	64.90	.00	10000.00	10004.40	.00	206.95	3008.15	.00
*	5310.000	362.00	3006.80	.03	64.97	9996.30	10000.00	10004.40	10005.40	298.67	3009.13	.98

SUMMARY OF ERRORS AND SPECIAL NOTES

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CAUTION SECNO=   1910.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   1910.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
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CAUTION SECNO=  5310.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
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FLOODWAY DATA, WILLOW SPRINGS WASH (W
PROFILE NO. 2

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE
1780.000	50.	388.	12.1	2189.2	2188.2	1.0
1910.000	44.	310.	15.1	2209.5	2209.4	.1
1970.000	83.	297.	10.8	2219.1	2219.1	.0
2100.000	51.	251.	12.7	2233.3	2233.4	-.1
2170.000	38.	245.	13.0	2241.1	2241.0	.1
2270.000	60.	265.	12.0	2252.7	2252.8	-.1
2360.000	96.	309.	10.3	2261.1	2261.2	-.1
2450.000	94.	332.	9.6	2273.8	2273.4	.4
2510.000	37.	238.	13.4	2279.7	2279.6	.1
2570.000	62.	270.	11.8	2287.1	2287.0	.1
2680.000	107.	360.	8.9	2302.7	2302.2	.5
2780.000	60.	264.	12.1	2313.0	2313.0	.0
2850.000	37.	226.	14.1	2321.3	2321.3	.0
2930.000	61.	252.	11.6	2334.3	2334.3	.0
2990.000	36.	218.	13.4	2346.3	2346.3	.0
3050.000	41.	230.	12.7	2358.0	2358.0	.0
3140.000	73.	293.	10.0	2370.1	2369.5	.6
3230.000	111.	392.	7.5	2381.1	2381.0	.1
[illegible]0.000	36.	213.	13.8	2392.2	2392.1	.1
[illegible]90.000	39.	224.	13.1	2402.2	2402.3	-.1
3490.000	46.	246.	11.9	2414.4	2414.4	.0
3590.000	23.	192.	15.2	2430.3	2430.1	.2
3680.000	39.	240.	12.2	2442.2	2442.2	.0
3810.000	42.	176.	11.5	2463.5	2463.2	.3
3940.000	54.	190.	10.7	2483.1	2482.8	.3
4040.000	25.	147.	13.8	2501.1	2501.3	-.2
4160.000	28.	154.	13.2	2517.1	2517.0	.1
4240.000	111.	243.	8.3	2534.3	2533.6	.7
4310.000	28.	78.	9.3	2543.7	2543.4	.3
4380.000	29.	84.	8.7	2553.9	2553.7	.2
4490.000	26.	79.	9.1	2581.4	2580.9	.5
4600.000	14.	61.	11.9	2616.2	2615.9	.3
4690.000	23.	71.	10.1	2673.0	2673.0	.0
4770.000	18.	71.	10.1	2720.7	2720.4	.3
4850.000	14.	60.	12.0	2755.4	2755.3	.1
4950.000	18.	42.	8.7	2790.7	2790.7	.0
5020.000	31.	49.	7.3	2818.2	2818.2	.0
5100.000	12.	36.	10.0	2852.1	2852.0	.1
5180.000	10.	39.	9.4	2891.6	2891.6	.0
5240.000	12.	37.	9.9	2941.8	2941.9	-.1
5310.000	9.	37.	9.8	3006.8	3006.8	.0

```
*******************************************************
*  WATER-SURFACE PROFILES                             *
*  VERSION OF SEPTEMBER 1988                          *
*  ERROR: 01,02,03                                    *
*  ATED:  SEPTEMBER 1989                              *
*  RUN DATE     3/ 8/90    TIME    10:46:43           *
*******************************************************
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*************************************
*  U.S. ARMY CORPS OF ENGINEERS
*  THE HYDROLOGIC ENGINEERING CENTER
*  609 SECOND STREET, SUITE D
*  DAVIS, CALIFORNIA 95616-4687
*          (916) 756-1104
*************************************
```

WST1.OUT
100 YR CWSEL 3-8-90-DH

```
X     X  XXXXXXX   XXXXX              XXXXX
X     X  X       X     X            X     X
X     X  X       X                        X
XXXXXXX  XXXX     X         XXXXX    XXXXX
X     X  X       X                  X
X     X  X       X     X            X
X     X  XXXXXXX   XXXXX             XXXXXXX
```

END OF BANNER

THIS RUN EXECUTED 3/ 8/90 10:46:43

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**************************************************
  HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989


  ERROR CORR -  01,02,03
  MODIFICATION -
**************************************************


T1      FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LA027815.H2
T2      10-YEAR FLOOD FREQUENCY MODEL
T3      WILLOW SPR. TRIB. 1 (WST1.DAT)


J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

              2                         .015                                2096.52

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

    1                 -1


J3  VARIABLE CODES FOR SUMMARY PRINTOUT

    38       1       43       8       55       26       56       13       14       15
     4       5       51
   150


QT       4      816     1226     1438     1822

NC     .05      .05      .03       .1       .3

       *******REVISED STREAMFLOWS FROM CVCRK43R.OUT**********
         COMMON SECTION IS SEC. 790 FROM WILLOW SPRINGS WASH (HTA)
         SEC. 000 = SEC. 0.80 OF WILLOW SPRINGS WASH (HTA)
         QT VALUES ARE FROM SUBWTRSHD F1 + PC 32 (SEC.000 - 880)
         SLOPE AREA METHOD USED ON STARTING WATER SURFACE
X1     790       8    9960.0   10045.0
GR  2124.0    9830.0   2100.0    9880.0    2096.0    9960.0    2095.0    9970.0    2095.0   10040.0
GR  2096.0   10045.0   2100.0   10060.0    2120.0   10080.0


X1      90      22    9931.1   10026.1     300      550       530
GR  2122.8    9593.2   2119.5    9626.2    2117.9    9670.8    2115.8    9703.5    2115.0    9724.8
GR  2113.9    9733.0   2109.5    9774.9    2107.0    9813.7    2105.4    9851.1    2105.9    9878.5
    107.6     9901.9   2109.5    9931.1    2107.0    9955.2    2106.6    9968.0    2105.9   10000.0
GR  2106.6   10026.1   2108.8   10072.5    2111.1   10115.5    2114.3   10161.6    2116.7   10199.3
GR  2121.7   10239.2   2123.8   10252.8
```

X1	170	17	9961.8	10012.3	450	340	420			
GR	2123.7	9851.9	2118.5	9886.9	2118.7	9923.7	2118.5	9947.6	2115.4	9951.7
GR	2115.4	9961.8	2110.8	9975.1	2107.2	9985.9	2107.2	10000.0	2107.3	10012.3
GR	2110.6	10019.2	2111.4	10050.8	2111.9	10051.2	2112.2	10076.7	2119.2	10101.4
GR	2127.2	10134.7	2127.1	10142.7						

X1	220	19	9970.1	10026.1	270	180	260			
GR	2127.1	9915.1	2124.3	9933.2	2115.0	9955.8	2112.2	9970.1	2110.6	9976.7
GR	2109.8	9989.7	2109.6	9998.6	2109.6	10000.0	2111.1	10015.9	2113.4	10026.1
GR	2114.7	10044.4	2115.5	10071.0	2115.9	10100.6	2119.3	10129.8	2121.6	10145.1
GR	2121.6	10181.0	2122.4	10211.2	2124.1	10240.7	2127.4	10258.5		

X1	270	15	9976.2	10014.0	240	310	260			
GR	2130.0	9800.9	2128.8	9835.3	2126.4	9866.1	2116.9	9893.2	2116.7	9933.5
GR	2116.5	9959.8	2115.4	9976.2	2113.8	9983.0	2113.5	9997.1	2114.1	10000.0
GR	2115.7	10014.0	2116.3	10021.5	2116.9	10041.0	2129.0	10065.3	2138.1	10077.8

	350	18	9963.2	10023.7	360	470	420			
GR	2134.9	9562.0	2134.0	9610.1	2134.5	9651.9	2133.4	9695.6	2132.4	9740.2
GR	2130.9	9764.9	2125.8	9810.5	2124.1	9853.4	2121.7	9896.9	2120.8	9927.6
GR	2120.7	9958.3	2120.7	9963.2	2117.9	9988.3	2117.7	10000.0	2119.3	10015.3
GR	2123.7	10023.7	2141.6	10055.2	2145.7	10059.9				

X1	420	17	9986.1	10026.9	310	410	370			
GR	2139.2	9587.5	2136.5	9635.7	2135.4	9690.4	2132.0	9715.3	2131.0	9716.6
GR	2127.7	9783.4	2126.8	9842.0	2125.7	9902.5	2125.2	9932.8	2123.9	9965.2
GR	2122.0	9986.1	2120.8	10000.0	2120.8	10014.8	2123.2	10026.9	2128.5	10034.2
GR	2138.6	10055.4	2144.2	10069.0						

X1	520	27	9980.8	10026.0	520	510	530			
GR	2152.7	9931.7	2145.6	9951.4	2132.0	9979.9	2130.1	9980.8	2128.7	9993.0
GR	2128.7	10000.0	2128.2	10015.1	2130.3	10026.0	2130.9	10028.6	2131.0	10055.8
GR	2130.5	10087.8	2130.0	10112.0	2128.2	10122.3	2128.7	10126.9	2128.7	10133.6
GR	2129.9	10146.8	2132.5	10167.1	2134.1	10193.0	2134.1	10222.7	2132.9	10253.0
GR	2132.0	10268.2	2132.0	10277.2	2132.5	10293.9	2136.1	10323.1	2139.5	10348.4
GR	2141.5	10373.8	2141.9	10397.8						

```
X1     630       21     9968.6   10021.3      640      420      580
GR  2160.3   9871.4     2146.1    9900.1   2138.1   9926.0   2137.5   9937.9   2137.0   9947.3
GR  2136.5   9968.6     2135.5    9973.1   2135.1   9988.6   2134.0   9999.5   2135.3  10000.0
GR  2136.8  10021.3     2135.9   10029.7   2136.5  10067.5   2136.6  10102.9   2136.7  10120.2
GR  2135.4  10127.8     2137.3   10143.6   2140.6  10176.2   2144.7  10218.8   2145.8  10259.1
GR  2146.3  10268.0

NC     .05       .05       .035

X1     700       26     9959.0   10034.9      340      360      370
GR  2160.3   9759.8     2157.4    9784.8   2149.2   9819.1   2147.5   9851.5   2147.5   9879.6
GR  2148.2   9907.7     2148.9    9926.8   2146.7   9937.7   2141.9   9956.3   2140.1   9959.0
GR  2138.9   9975.1     2137.4    9983.9   2136.4   9995.2   2136.7  10000.0   2139.1  10014.7
GR  2140.1  10034.9     2141.0   10037.1   2141.3  10069.2   2144.0  10092.7   2149.8  10132.7
GR  2151.0  10165.5     2151.2   10203.3   2152.1  10218.3   2152.4  10284.9   2157.8  10333.0
GR  2159.6  10359.6

X1     780       21     9978.4   10014.1      500      420      420
GR  2159.6   9747.6     2156.7    9819.5   2153.1   9859.7   2155.5   9879.7   2154.6   9899.0
GR  2150.8   9913.4     2146.3    9933.9   2144.4   9946.5   2144.1   9959.7   2144.1   9978.4
GR  2141.8   9986.4     2141.4    9999.4   2141.5  10000.0   2143.4  10014.1   2147.9  10025.5
GR  2152.7  10046.6     2154.0   10090.4   2155.0  10127.6   2156.5  10155.1   2154.9  10166.9
GR  2158.9  10179.6

NC     .05       .05       .03

X1     880       16     9984.5   10021.4      500      490      530
GR  2162.6   9738.5     2161.9    9806.8   2160.4   9865.7   2159.1   9907.7   2157.0   9940.5
GR  2153.2   9958.4     2150.2    9973.4   2149.9   9973.5   2148.6   9984.5   2146.1   9995.4
GR  2145.3  10000.0     2145.6   10011.9   2149.7  10021.4   2153.0  10024.7   2168.3  10058.3
GR  2170.6  10060.9

QT       4      604       908      1065      1385

        QT VALUES ARE FROM (.58)*F1 + PC 32 (SEC.980 - 1520)
X1     980       19     9977.8   10041.0      500      540      530
GR  2172.4   9937.5     2169.7    9952.2   2161.4   9976.6   2159.6   9977.8   2153.2   9992.7
GR  2152.4   9999.1     2152.5   10000.0   2153.7  10006.1   2155.7  10023.5   2157.0  10041.0
GR  2162.0  10059.9     2165.7   10070.5   2167.2  10094.9   2167.1  10112.7   2165.9  10130.1
GR  2167.6  10169.1     2168.9   10207.3   2170.6  10256.3   2170.7  10287.3
```

X1	1070	15	9978.0	10013.0	500	420	480			
GR	2179.4	9919.4	2175.0	9938.8	2165.1	9962.0	2163.9	9965.0	2161.2	9978.0
GR	2158.4	9991.9	2158.2	9998.9	2158.2	10000.0	2160.4	10013.0	2163.0	10018.1
GR	2165.3	10033.1	2173.9	10060.0	2174.8	10101.0	2174.0	10156.0	2174.0	10170.3
NC	.04	.04	.03							
X1	1190	18	9980.2	10022.3	650	640	630			
GR	2186.9	9841.8	2184.2	9909.8	2184.8	9943.9	2183.6	9961.1	2173.7	9980.2
GR	2172.9	9980.9	2171.6	9995.7	2172.7	10000.0	2173.1	10022.3	2177.1	10029.1
GR	2178.6	10055.0	2180.5	10083.6	2184.7	10117.9	2186.3	10134.7	2186.0	10149.8
GR	2185.9	10160.4	2185.5	10210.7	2185.5	10244.1				
X1	1300	23	9974.9	10022.8	540	560	580			
GR	2200.0	9547.9	2197.4	9566.1	2197.7	9597.2	2197.4	9639.8	2196.8	9694.7
GR	2195.3	9741.1	2194.2	9762.2	2193.4	9823.2	2191.6	9857.3	2192.0	9888.9
GR	2190.7	9926.5	2189.4	9957.1	2186.7	9970.8	2185.6	9974.9	2181.7	9991.1
GR	2182.9	10000.0	2183.4	10020.0	2183.9	10022.8	2188.4	10056.1	2193.8	10088.7
GR	2197.6	10122.3	2200.6	10155.4	2201.1	10157.1				
	.04	.04	.035							
X1	1380	31	9926.5	10032.2	460	460	420			
GR	2211.4	9558.0	2209.3	9622.2	2205.6	9682.8	2204.5	9720.8	2203.0	9734.6
GR	2203.7	9738.8	2203.9	9749.2	2203.8	9759.3	2202.8	9763.1	2203.0	9776.6
GR	2200.5	9835.0	2199.4	9875.6	2198.1	9884.2	2199.7	9899.4	2199.1	9926.5
GR	2198.3	9938.4	2197.3	9941.8	2196.0	9952.6	2194.6	9981.5	2193.8	9993.9
GR	2192.7	10000.0	2193.6	10014.8	2198.5	10032.2	2200.4	10040.7	2202.0	10056.4
GR	2204.0	10094.8	2206.1	10139.3	2209.4	10188.7	2211.7	10219.4	2214.0	10285.0
GR	2213.5	10305.8								
X1	1450	26	9946.8	10069.3	320	360	370			
GR	2222.6	9545.2	2222.5	9600.1	2219.2	9649.6	2216.2	9692.1	2215.6	9728.7
GR	2213.1	9779.7	2210.1	9830.6	2208.0	9874.7	2206.7	9893.8	2205.4	9923.1
GR	2204.0	9946.8	2201.7	9962.8	2201.9	9966.2	2201.3	9996.8	2201.0	10000.0
GR	2201.2	10016.8	2202.2	10028.3	2204.1	10069.3	2208.0	10115.7	2211.0	10166.3
GR	2212.1	10221.3	2215.2	10290.3	2218.0	10347.3	2218.8	10404.4	2219.7	10455.2
GR	2221.4	10475.1								
NC	.04	.04	.03							
X1	1520	25	9986.9	10026.2	350	320	370			
	2222.7	9838.8	2219.2	9892.9	2215.4	9932.7	2210.6	9962.1	2210.8	9966.2
	2208.1	9986.9	2206.7	9995.2	2204.9	10000.0	2205.1	10011.5	2208.0	10026.2
GR	2209.7	10052.0	2211.9	10066.8	2211.0	10074.7	2213.7	10088.2	2213.0	10126.5
GR	2213.0	10137.2	2213.5	10163.6	2213.6	10199.0	2214.0	10240.2	2215.3	10284.3

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GR   2217.2   10337.3   2217.9   10386.5   2221.3   10431.9   2221.8   10476.8   2222.3   10489.1

QT      4       358       537       629       784

        QT VALUES ARE FROM SBWTRSHD F1B (SEC.1580 - 2770)
X1   1580        22    9978.8   10048.0       370       330       320
GR   2224.9   9811.1   2224.4    9875.7    2222.6    9928.6    2220.1    9958.1    2216.1    9978.8
GR   2210.7   9987.7   2210.2    9992.6    2210.2   10000.0    2213.2   10022.1    2213.2   10024.2
GR   2215.4  10048.0   2215.4   10073.8    2216.2   10097.2    2217.6   10105.4    2219.0   10136.8
GR   2220.1  10175.6   2221.2   10221.6    2221.9   10268.3    2224.3   10318.4    2227.4   10371.1
GR   2229.7  10420.5   2229.7   10420.6

NC    .035      .035      .03

X1   1650        24    9969.9   10029.4       370       370       370
GR   2241.8   9646.6   2238.5    9698.5    2230.7    9743.1    2227.9    9774.2    2226.0    9792.9
GR   2226.8   9821.1   2226.8    9860.7    2227.6    9894.9    2227.9    9924.4    2227.5    9945.8
GR   2225.3   9964.5   2223.6    9969.9    2220.6    9985.6    2219.6    9997.4    2219.6   10000.0
GR   2219.5  10010.5   2222.1   10021.1    2224.3   10029.4    2226.6   10058.2    2230.3   10084.8
GR   2231.1  10125.0   2231.2   10163.9    2234.2   10220.5    2235.0   10261.8

NC     .05       .05       .04

X1   1730        17   10000.0   10012.5       410       430       420
GR   2248.0   9665.0   2246.8    9684.8    2242.4    9713.9    2238.9    9753.5    2237.3    9810.3
GR   2236.1   9861.7   2234.1    9904.9    2231.4    9917.6    2231.3    9942.5    2228.2    9970.0
GR   2228.0   9990.2   2227.2   10000.0    2227.2   10000.5    2227.1   10012.5    2235.4   10038.5
GR   2241.8  10079.0   2246.2   10104.6

X1   1780        12    9985.5   10000.0       260       260       260
GR   2251.1   9838.6   2251.1    9839.1    2248.1    9885.6    2243.2    9918.7    2240.4    9956.5
GR   2238.7   9969.0   2230.9    9985.5    2231.6   10000.0    2235.8   10025.7    2239.1   10052.4
GR   2242.6  10070.8   2251.3   10093.6

X1   1820        12    9994.3   10007.5       220       200       210
GR   2264.5   9949.4   2264.5    9949.6    2251.6    9973.9    2241.6    9994.3    2240.1   10000.0
GR   2240.0  10007.5   2247.4   10030.8    2249.9   10053.0    2249.9   10076.9    2252.2   10098.5
GR   2256.6  10128.3   2259.2   10139.6

X1   1880        12    9995.3   10000.1       320       320       320
GR   2266.8   9939.3   2266.8    9939.4    2261.3    9959.6    2254.8    9978.4    2249.0    9995.3
GR   2249.4  10000.0   2249.4   10000.1    2251.0   10019.8    2255.8   10040.3    2258.3   10073.2
GR   2261.9  10092.6   2269.1   10109.2
```

X1	1960	12	9991.2	10000.0	420	420	420			
GR	2274.6	9896.9	2274.7	9897.0	2271.8	9923.6	2267.6	9952.7	2258.6	9979.9
GR	2256.6	9991.2	2256.5	10000.0	2256.5	10000.1	2258.1	10018.3	2265.1	10032.2
GR	2275.6	10057.6	2277.8	10064.0						
X1	2040	11	9995.1	10000.5	440	400	420			
GR	2288.4	9909.1	2283.6	9929.5	2279.2	9952.5	2272.8	9973.1	2268.2	9995.1
GR	2268.4	10000.0	2268.4	10000.5	2270.2	10017.1	2281.9	10038.4	2285.2	10053.5
GR	2291.3	10082.7								
X1	2100	13	9985.7	10000.1	300	340	320			
GR	2296.6	9909.2	2296.6	9909.6	2292.3	9931.2	2289.3	9955.0	2278.9	9985.7
GR	2277.9	10000.0	2277.9	10000.1	2278.7	10018.1	2283.6	10046.1	2289.1	10066.2
GR	2291.4	10082.9	2292.2	10109.5	2298.7	10119.8				
X1	2160	13	9992.1	10010.8	340	300	320			
GR	2303.0	9891.9	2303.0	9892.3	2294.3	9927.0	2289.1	9954.2	2287.1	9979.0
GR	2284.4	9992.1	2284.4	10000.0	2284.4	10000.1	2284.8	10010.8	2293.7	10028.9
GR	2296.7	10054.4	2301.6	10084.2	2305.1	10099.2				
[illegible]	2240	14	10000.0	10019.1	420	420	420			
[illegible]	2312.8	9891.2	2312.8	9891.3	2308.2	9912.5	2304.0	9938.6	2299.1	9960.3
GR	2297.9	9977.6	2298.7	9993.3	2295.3	10000.0	2295.3	10000.6	2295.2	10019.1
GR	2295.4	10036.0	2301.5	10046.4	2312.6	10066.7	2315.9	10085.1		
X1	2330	21	9993.3	10000.1	480	480	480			
GR	2332.1	9802.3	2332.1	9802.9	2327.8	9835.6	2320.1	9861.5	2317.9	9892.9
GR	2317.3	9905.5	2315.5	9938.5	2311.8	9970.7	2308.3	9993.3	2308.6	10000.0
GR	2308.6	10000.1	2313.2	10022.5	2315.9	10036.3	2314.6	10056.6	2312.6	10077.1
GR	2313.7	10089.3	2312.3	10095.9	2314.5	10113.2	2318.6	10142.9	2324.1	10153.4
GR	2331.4	10180.7								
X1	2370	19	9987.6	10000.6	210	210	210			
GR	2335.9	9916.2	2335.9	9916.8	2327.4	9944.7	2321.5	9961.3	2320.1	9980.9
GR	2314.6	9987.6	2314.5	10000.0	2314.5	10000.6	2317.2	10022.8	2320.0	10045.9
GR	2321.6	10070.5	2322.9	10099.9	2324.0	10120.0	2325.0	10145.5	2326.5	10167.4
GR	2329.5	10197.5	2330.7	10218.7	2335.2	10240.8	2338.1	10252.2		
NC	.055	.055	.04							
X1	2420	16	9999.3	10002.0	240	280	260			
GR	2345.4	9936.4	2340.2	9952.1	2338.0	9956.1	2338.0	9956.1	2334.8	9981.7
GR	2325.7	9991.2	2323.6	9999.3	2323.6	10000.0	2323.6	10002.0	2326.5	10022.3
[illegible]	329.8	10041.0	2333.5	10052.9	2335.3	10074.2	2338.4	10100.2	2338.5	10109.7
GR	2338.9	10121.0								

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X1    2480       17   10000.0   10012.3       340       300       320
GR   2351.9   9806.6    2352.0    9806.8    2348.0    9827.4    2338.1    9856.3    2336.1    9879.4
GR   2337.2   9902.8    2337.7    9923.2    2333.6    9935.4    2335.0    9953.9    2333.0    9972.2
GR   2334.6   9988.4    2332.9   10000.0    2333.3   10012.3    2345.1   10029.2    2350.4   10043.9
GR   2350.8  10061.9    2351.3   10064.8

X1    2570       15    9998.9   10000.3       490       470       480
GR   2358.9   9895.2    2358.9    9895.5    2358.2    9918.8    2356.2    9943.0    2352.5    9962.1
GR   2347.0   9975.4    2342.2    9998.9    2341.8   10000.0    2341.8   10000.3    2344.6   10015.1
GR   2349.4  10040.0    2353.2   10058.3    2358.8   10073.7    2362.1   10092.3    2363.0   10092.4

X1    2630       18    9994.0   10001.7       310       330       320
GR   2377.6   9917.8    2377.6    9918.4    2375.4    9940.9    2371.7    9950.0    2371.7    9950.5
GR   2369.3   9972.3    2360.4    9984.3    2353.6    9994.0    2351.1   10000.0    2351.1   10001.7
GR   2353.9  10020.0    2356.0   10038.9    2357.6   10061.8    2360.0   10077.6    2364.0   10088.6
GR   2368.5  10105.2    2372.5   10124.7    2374.8   10130.0

X1    2710       11    9996.4   10000.0       400       440       420
GR   2383.9   9923.3    2380.6    9952.0    2376.8    9971.7    2374.5    9981.5    2363.2    9996.4
GR   2364.6  10000.0    2366.3   10018.7    2368.9   10047.1    2376.4   10082.2    2383.4   10099.7
GR   2387.4  10109.9

X1    2770       14    9981.1   10000.0       340       300       320
GR   2387.4   9922.1    2395.8    9927.2    2386.8    9945.1    2377.9    9964.3    2374.2    9981.1
GR   2373.1  10000.0    2375.3   10011.3    2381.4   10031.7    2382.0   10055.2    2386.1   10081.8
GR   2388.4  10108.8    2390.4   10122.2    2395.0   10152.2    2394.5   10156.2

QT       4      163       244       286       360

        QT VALUES ARE FROM (0.45)* SBWTRSHD F1B (2820 - END)
X1    2820       12    9993.7   10000.0       250       270       260
GR   2404.6   9903.5    2400.5    9923.1    2398.5    9948.1    2394.9    9970.0    2391.8    9987.9
GR   2379.9   9993.7    2379.7   10000.0    2383.5   10019.3    2382.9   10038.7    2391.7   10062.7
GR   2399.0  10081.3    2404.3   10099.0

X1    2890       11    9997.2   10033.1       350       390       370
GR   2419.5   9950.0    2410.6    9977.1    2398.5    9988.6    2391.9    9997.2    2392.0   10000.0
GR   2395.3  10020.4    2393.1   10033.1    2398.3   10056.9    2403.6   10075.2    2411.1   10095.7
GR   2418.8  10109.1

NC      .05       .05       .04
```

X	2980	11	9989.0	10000.4	500	460	480			
GR	2446.7	9921.9	2432.1	9949.2	2418.3	9974.6	2408.9	9981.3	2403.2	9989.0
GR	2404.4	10000.0	2404.4	10000.4	2404.6	10008.2	2414.8	10029.6	2426.3	10053.0
GR	2427.4	10061.0								
X1	3070	10	9999.6	10018.9	470	490	480			
GR	2447.0	9944.7	2435.3	9966.5	2425.3	9986.0	2420.2	9999.6	2420.5	10000.0
GR	2424.3	10018.9	2431.8	10031.4	2438.8	10055.2	2443.6	10076.1	2443.6	10077.2
X1	3160	10	10000.0	10012.2	470	490	480			
GR	2459.9	9884.7	2459.9	9884.8	2454.3	9912.9	2446.2	9938.9	2441.2	9964.1
GR	2440.0	9984.3	2438.6	10000.0	2441.0	10012.2	2455.8	10031.7	2456.1	10032.2
X1	3220	9	9999.9	10016.8	340	300	320			
GR	2473.3	9939.6	2473.3	9941.2	2464.5	9960.2	2456.6	9980.4	2451.2	9999.9
GR	2450.2	10000.0	2455.1	10016.8	2470.3	10033.1	2486.1	10053.9		
X1	3310	12	10000.0	10005.0	500	450	480			
GR	2501.2	9934.4	2501.2	9934.8	2500.4	9954.9	2497.2	9968.2	2488.5	9981.8
GR	2482.5	9997.0	2474.4	10000.0	2474.4	10000.1	2475.7	10005.0	2485.4	10024.4
GR	2496.0	10043.3	2499.8	10055.4						
X1	3410	14	9989.6	10000.0	530	530	530			
GR	2517.6	9906.2	2508.8	9928.4	2501.1	9962.5	2495.3	9989.6	2493.4	10000.0
GR	2497.8	10012.6	2502.5	10030.1	2501.6	10053.3	2502.1	10072.7	2502.3	10104.2
GR	2505.5	10131.9	2507.7	10170.1	2510.9	10194.7	2515.0	10212.4		
X1	3460	13	10000.0	10008.2	260	260	260			
GR	2517.0	9799.4	2517.0	9799.9	2515.0	9831.5	2513.8	9869.1	2512.3	9901.6
GR	2509.4	9942.6	2504.7	9971.0	2500.4	9990.1	2498.7	10000.0	2499.6	10008.2
GR	2508.9	10027.6	2511.9	10050.8	2513.3	10076.9				
X1	3520	17	9987.4	10000.0	310	330	320			
GR	2527.1	9797.0	2524.6	9831.5	2523.3	9876.2	2522.4	9888.7	2522.4	9889.3
GR	2519.7	9923.3	2515.5	9952.5	2510.5	9987.4	2508.4	10000.0	2512.1	10030.4
GR	2512.8	10067.2	2514.7	10110.3	2519.8	10145.8	2522.9	10158.0	2527.0	10174.0
GR	2528.3	10190.8	2529.3	10195.8						
X1	3560	13	10000.0	10013.8	210	210	210			
GR	2542.4	9894.8	2542.4	9894.9	2540.4	9921.0	2535.6	9937.4	2530.8	9960.1
GR	2522.8	9977.7	2518.4	9994.3	2516.1	10000.0	2518.4	10013.8	2521.6	10040.5
GR	2525.4	10073.0	2528.5	10099.4	2533.8	10136.2				

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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*PROF 1

CCHV=     .100 CEHV=     .300
*SECNO 790.000
3720 CRITICAL DEPTH ASSUMED
       *******REVISED STREAMFLOWS FROM CVCRK43R.OUT**********
         COMMON SECTION IS SEC. 790 FROM WILLOW SPRINGS WASH (HTA)
         SEC. 000 = SEC. 0.80 OF WILLOW SPRINGS WASH (HTA)
         QT VALUES ARE FROM SUBWTRSHD F1 + PC 32 (SEC.000 - 880)
         SLOPE AREA METHOD USED ON STARTING WATER SURFACE
  790.000     1.52  2096.52  2096.52  2096.52  2097.21      .69      .00      .00  2096.00
    816.       3.     812.       1.       3.     121.       1.       0.       0.   2096.00
     .00     1.28     6.68     1.26     .050     .030     .050     .000  2095.00  9949.65
  .011338      0.       0.       0.        0        5        0      .00    97.29 10046.94


*SECNO 90.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   90.000     1.76  2107.16  2107.16      .00  2107.66      .49     7.27      .02  2109.50
    816.     438.     371.       6.      89.      58.       3.       1.       1.   2106.60
     .02     4.93     6.41     1.92     .050     .030     .050     .000  2105.40  9811.15
  .022601     300.     530.     550.        3       11        0      .00   169.15 10038.00


*SECNO 170.000

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.21

  170.000     3.55  2110.75      .00      .00  2111.48      .73     3.75      .07  2115.40
    816.       0.     781.      35.       0.     112.      13.       3.       2.   2107.30
     .04      .00     6.98     2.71     .000     .030     .050     .000  2107.20  9975.26
  .004646     450.     420.     340.        5        0        0      .00    49.72 10024.98


*SECNO 220.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  220.000     2.84  2112.44  2112.44      .00  2113.44     1.00     1.75      .08  2112.20
    816.       0.     816.       0.       0.     102.       0.       3.       3.   2113.40
     .05      .75     8.01      .00     .050     .030     .000     .000  2109.60  9968.85
  .010743     270.     260.     180.        3       15        0      .00    53.02 10021.86
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:NO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 270.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

270.000	3.49	2116.99	2116.99	.00	2117.72	.73	1.99	.03	2115.40
816.	57.	733.	26.	35.	102.	15.	4.	3.	2115.70
.06	1.64	7.20	1.70	.050	.030	.050	.000	2113.50	9892.95
.005714	240.	260.	310.	4	11	0	.00	148.23	10041.18

*SECNO 350.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

350.000	2.98	2120.68	2120.68	.00	2121.65	.96	3.22	.07	2120.70
816.	0.	816.	0.	0.	104.	0.	5.	4.	2123.70
.08	.00	7.87	.00	.000	.030	.000	.000	2117.70	9963.35
.010890	360.	420.	470.	8	11	0	.00	54.59	10017.94

*SECNO 420.000

000	3.10	2123.90	.00	.00	2124.71	.81	3.05	.02	2122.00
816.	46.	769.	0.	20.	104.	0.	6.	5.	2123.20
.09	2.32	7.42	1.04	.050	.030	.050	.000	2120.80	9965.12
.006518	310.	370.	410.	3	0	0	.00	62.75	10027.87

*SECNO 520.000

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

520.000	2.38	2130.58	2130.58	.00	2131.26	.67	4.53	.01	2130.10
816.	0.	557.	259.	0.	74.	65.	8.	6.	2130.30
.11	.03	7.50	3.99	.050	.030	.050	.000	2128.20	9980.57
.011906	520.	530.	510.	20	16	0	.00	116.24	10152.13

*SECNO 630.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

630.000	3.15	2137.15	2137.15	.00	2137.64	.50	5.59	.02	2136.50
816.	13.	570.	233.	9.	87.	93.	10.	8.	2136.80
.14	1.53	6.57	2.49	.050	.030	.050	.000	2134.00	9944.53
.009323	640.	580.	420.	3	11	0	.00	197.80	10142.33

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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q      QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 700.000
  700.000     3.94  2140.34      .00      .00  2140.86      .52     3.21      .01  2140.10
     816.       0.     816.       0.       0.     141.       0.      11.       9.   2140.10
      .16      .03     5.78      .03     .050     .035     .050     .000  2136.40  9958.63
  .008178     340.     370.     360.        3        0        0      .00    76.87 10035.50


*SECNO 780.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  780.000     3.48  2144.88  2144.88      .00  2145.80      .92     3.78      .12  2144.10
     816.      56.     754.       6.      24.      94.       3.      13.       9.   2143.40
      .17     2.34     7.98     2.30     .050     .035     .050     .000  2141.40  9943.30
  .009816     500.     420.     420.        2       15        0      .00    74.56 10017.86


*SECNO 880.000
  880.000     3.98  2149.28      .00      .00  2150.33     1.04     4.49      .04  2148.60
     816.       3.     813.       0.       2.      99.       0.      14.      10.   2149.70
      .19     1.25     8.21      .00     .050     .030     .000     .000  2145.30  9978.68
    .7412     500.     530.     490.        3        0        0      .00    41.77 10020.45


*SECNO 980.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
          QT VALUES ARE FROM (.58)*F1 + PC 32 (SEC.980 - 1520)
  980.000     3.70  2156.10  2156.10      .00  2157.03      .93     4.65      .01  2159.60
     604.       0.     604.       0.       0.      78.       0.      15.      11.   2157.00
      .21      .00     7.74      .00     .000     .030     .000     .000  2152.40  9985.94
  .011331     500.     530.     540.       13       11        0      .00    42.97 10028.92


*SECNO 1070.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1070.000     3.16  2161.36  2161.36      .00  2162.40     1.05     5.24      .04  2161.20
     604.       0.     602.       2.       0.      73.       1.      16.      11.   2160.40
      .23      .03     8.23     1.72     .050     .030     .050     .000  2158.20  9977.25
  .010508     500.     480.     420.        2       15        0      .00    37.62 10014.87
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q      QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 1190.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1190.000     2.85  2174.45  2174.45      .00  2175.36      .92     6.74      .01  2173.70
    604.       1.     599.       4.       1.      78.       2.      17.      12.   2173.10
     .25     1.86     7.71     2.70     .040     .030     .040     .000  2171.60  9978.76
  .010892     650.     630.     640.       11       11        0      .00    45.83 10024.59


*SECNO 1300.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1300.000     3.13  2184.83  2184.83      .00  2185.69      .86     6.24      .01  2185.60
    604.       0.     597.       7.       0.      80.       3.      18.      12.   2183.90
     .27      .00     7.47     2.29     .000     .030     .040     .000  2181.70  9978.09
  .010639     540.     580.     560.       12        8        0      .00    51.62 10029.70


*SECNO 1380.000
 20 TRIALS ATTEMPTED WSEL,CWSEL
 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1380.000     2.94  2195.64  2195.64      .00  2196.37      .73     5.52      .01  2199.10
    604.       0.     604.       0.       0.      88.       0.      19.      13.   2198.50
     .29      .00     6.87      .00     .000     .035     .000     .000  2192.70  9959.99
  .016596     460.     420.     460.       20       11        0      .00    62.06 10022.05


*SECNO 1450.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1450.000     1.85  2202.85  2202.85      .00  2203.43      .58     6.32      .02  2204.00
    604.       0.     604.       0.       0.      99.       0.      20.      14.   2204.10
     .31      .00     6.10      .00     .000     .035     .000     .000  2201.00  9954.81
  .017589     320.     370.     360.       10       14        0      .00    87.49 10042.30


*SECNO 1520.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1520.000     3.22  2208.12  2208.12      .00  2209.10      .98     5.07      .12  2208.10
    604.       0.     604.       0.       0.      76.       0.      20.      14.   2208.00
     .32      .04     7.95      .59     .000     .030     .040     .000  2204.90  9986.77
  .010971     350.     370.     320.        3       14        0      .00    41.20 10027.97
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

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*SECNO 1580.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
        QT VALUES ARE FROM SBWTRSHD F1B (SEC.1580 - 2770)
 1580.000     2.33  2212.53  2212.53      .00  2213.32      .79     3.62      .02  2216.10
    358.        0.     358.       0.       0.      50.       0.      21.      14.   2215.40
     .33       .00     7.12      .00     .000     .030     .000     .000  2210.20  9984.68
  .011881     370.     320.     330.        1       19        0      .00    32.50 10017.18

*SECNO 1650.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1650.000     2.02  2221.52  2221.52      .00  2222.23      .71     4.44      .01  2223.60
    358.        0.     358.       0.       0.      53.       0.      21.      15.   2224.30
     .35       .00     6.76      .00     .000     .030     .000     .000  2219.50  9980.79
  .012109     370.     370.     370.        3       15        0      .00    37.94 10018.73

*SECNO 1730.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1730.000     1.97  2229.07  2229.07      .00  2229.64      .57     5.99      .01  2227.20
    358.      155.     180.      23.      37.      24.       6.      22.      15.   2227.10
     .37      4.14     7.52     3.73     .050     .040     .050     .000  2227.10  9962.27
  .017179     410.     420.     430.        5        8        0      .00    56.40 10018.67

*SECNO 1780.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1780.000     2.69  2233.59  2233.59      .00  2234.47      .89     4.32      .09  2230.90
    358.       33.     280.      45.       8.      34.      12.      22.      15.   2231.60
     .38      4.29     8.28     3.72     .050     .040     .050     .000  2230.90  9979.82
  .016066     260.     260.     260.        2       11        0      .00    32.33 10012.15

*SECNO 1820.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1820.000     2.90  2242.90  2242.90      .00  2243.93     1.04     3.44      .05  2241.60
    358.        5.     290.      63.       2.      33.      13.      22.      16.   2240.00
     .38      2.69     8.79     4.78     .050     .040     .050     .000  2240.00  9991.66
  .016831     220.     210.     200.       20        8        0      .00    24.96 10016.62
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 1880.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1880.000	2.83	2251.83	2251.83	.00	2252.59	.75	5.58	.03	2249.00
358.	57.	120.	181.	12.	13.	34.	23.	16.	2249.40
.40	4.86	9.50	5.38	.050	.040	.050	.000	2249.00	9987.04
.018085	320.	320.	320.	11	8	0	.00	36.32	10023.36

*SECNO 1960.000

1960.000	2.35	2258.85	.00	.00	2259.47	.61	6.86	.01	2256.60
358.	59.	160.	139.	14.	20.	29.	23.	16.	2256.50
.42	4.14	7.89	4.79	.050	.040	.050	.000	2256.50	9979.14
.014838	420.	420.	420.	5	0	0	.00	40.66	10019.79

*SECNO 2040.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

000	2.69	2270.89	2270.89	.00	2271.65	.76	6.78	.04	2268.20
358.	83.	131.	144.	17.	14.	27.	24.	16.	2268.40
.43	4.79	9.37	5.36	.050	.040	.050	.000	2268.20	9982.22
.017966	440.	420.	400.	10	8	0	.00	36.15	10018.36

*SECNO 2100.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2100.000	1.98	2279.88	2279.88	.00	2280.58	.69	6.81	.01	2278.90
358.	4.	162.	193.	1.	21.	32.	24.	17.	2277.90
.45	2.79	7.55	5.93	.050	.040	.050	.000	2277.90	9982.80
.024433	300.	320.	340.	4	19	0	.00	42.06	10024.86

*SECNO 2160.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2160.000	2.15	2286.55	2286.55	.00	2287.41	.86	6.49	.05	2284.40
358.	46.	302.	10.	11.	38.	3.	25.	17.	2284.80
.46	4.08	7.91	3.36	.050	.040	.050	.000	2284.40	9981.65
.017551	340.	320.	300.	5	8	0	.00	32.71	10014.37

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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*SECNO 2240.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2240.000     1.52  2296.72  2296.72      .00  2297.41      .69     8.53      .02  2295.30
    358.       7.     208.     144.       2.      28.      25.      25.      17.   2295.20
     .48     3.38     7.40     5.64     .050     .040     .050     .000  2295.20  9997.20
  .023778     420.     420.     420.        4       19        0      .00    41.05 10038.25


*SECNO 2330.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2330.000     2.82  2311.12  2311.12      .00  2311.91      .80     9.51      .03  2308.30
    358.      123.     167.      68.      26.      18.      15.      26.      18.   2308.60
     .50     4.79     9.23     4.42     .050     .040     .050     .000  2308.30  9975.12
  .016747     480.     480.     480.        9       14        0      .00    37.23 10012.35


*SECNO 2370.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2370.000     2.35  2316.85  2316.85      .00  2317.69      .84     3.51      .01  2314.60
    358.       11.     251.      97.       3.      30.      23.      26.      18.   2314.50
     .50     3.50     8.36     4.25     .050     .040     .050     .000  2314.50  9984.86
  .016648     210.     210.     210.       18       11        0      .00    35.08 10019.94


*SECNO 2420.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2420.000     3.07  2326.67  2326.67      .00  2327.48      .81     4.74      .00  2323.60
    358.       97.      91.     170.      17.       8.      33.      27.      18.   2323.60
     .51     5.77    10.93     5.15     .055     .040     .055     .000  2323.60  9990.18
  .019383     240.     260.     280.       20       11        0      .00    33.09 10023.28


*SECNO 2480.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
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:NO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
2480.000	1.91	2334.81	2334.81	.00	2335.30	.49	6.34	.03	2332.90
358.	196.	157.	5.	56.	21.	2.	27.	19.	2333.30
.53	3.53	7.48	2.76	.055	.040	.055	.000	2332.90	9931.80
.019821	340.	320.	300.	4	14	0	.00	78.43	10014.46

*SECNO 2570.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2570.000	3.36	2345.16	2345.16	.00	2345.97	.81	10.45	.10	2342.20
358.	115.	54.	189.	21.	4.	30.	28.	19.	2341.80
.55	5.35	12.07	6.33	.055	.040	.055	.000	2341.80	9984.40
.023832	490.	480.	470.	4	17	0	.00	33.62	10018.02

*SECNO 2630.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2630.000	3.21	2354.31	2354.31	.00	2355.19	.87	7.50	.02	2353.60
358.	1.	158.	200.	0.	17.	34.	28.	20.	2351.10
.56	1.78	9.15	5.88	.055	.040	.055	.000	2351.10	9992.98
.022527	310.	320.	330.	5	11	0	.00	30.73	10023.72

*SECNO 2710.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2710.000	4.06	2367.26	2367.26	.00	2368.04	.78	8.20	.01	2363.20
358.	52.	123.	183.	11.	12.	39.	29.	20.	2364.60
.58	4.77	10.18	4.73	.055	.040	.055	.000	2363.20	9991.05
.016416	400.	420.	440.	17	11	0	.00	38.09	10029.14

*SECNO 2770.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2770.000	2.46	2375.56	2375.56	.00	2376.34	.78	5.45	.00	2374.20
358.	12.	278.	68.	4.	36.	15.	29.	20.	2373.10
.59	2.78	7.72	4.40	.055	.040	.055	.000	2373.10	9974.93
.018273	340.	320.	300.	4	14	0	.00	37.23	10012.16

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 2820.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
QT VALUES ARE FROM (0.45)* SBWTRSHD F1B (2820 - END)

2820.000	2.25	2381.95	2381.95	.00	2382.74	.79	4.74	.00	2379.90
163.	2.	111.	49.	1.	14.	13.	29.	20.	2379.70
.60	2.11	8.23	3.84	.055	.040	.055	.000	2379.70	9992.70
.017677	250.	260.	270.	12	11	0	.00	18.73	10011.43

*SECNO 2890.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2890.000	2.27	2394.17	2394.17	.00	2394.67	.50	7.57	.03	2391.90
163.	13.	143.	7.	3.	24.	3.	30.	21.	2393.10
.62	3.87	5.94	2.69	.055	.040	.055	.000	2391.90	9994.24
3585	350.	370.	390.	9	5	0	.00	30.24	10038.00

*SECNO 2980.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2980.000	2.20	2405.40	2405.40	.00	2406.00	.60	9.99	.03	2403.20
163.	12.	123.	28.	3.	18.	8.	30.	21.	2404.40
.65	3.73	6.83	3.62	.050	.040	.050	.000	2403.20	9986.03
.018534	500.	480.	460.	4	8	0	.00	23.85	10009.88

*SECNO 3070.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3070.000	2.71	2422.91	2422.91	.00	2423.57	.67	10.61	.02	2420.20
163.	56.	107.	0.	10.	15.	0.	30.	21.	2424.30
.67	5.72	6.94	.00	.050	.040	.000	.000	2420.20	9992.38
.026962	470.	480.	490.	10	11	0	.00	19.59	10011.97

*SECNO 3160.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q      QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 3160.000     1.90  2440.50  2440.50      .00  2440.96      .46    12.95      .02  2438.60
    163.       109.      54.       0.      21.       9.       0.      31.      21.   2441.00
     .69      5.20      5.89      .00     .050     .040     .000     .000  2438.60  9975.87
  .027588     470.      480.     490.       4       19        0      .00    33.79 10009.66


*SECNO 3220.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3220.000     3.16  2453.36  2453.36      .00  2454.04      .68     8.33      .07  2451.20
    163.       39.      124.       0.       8.       17.       0.      31.      22.   2455.10
     .70      4.66      7.14      .00     .050     .040     .000     .000  2450.20  9992.11
  .023317     340.      320.     300.      11       14        0      .00    18.71 10010.82


*SECNO 3310.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3310.000     3.62  2478.02  2478.02      .00  2479.14     1.13     8.84      .13  2474.40
    163.        6.      137.      20.       2.       15.       5.      31.      22.   2475.70
     .72      2.66      9.17     3.71     .050     .040     .050     .000  2474.40  9998.66
  .014873     500.      480.     450.      12        8        0      .00    10.97 10009.63


*SECNO 3410.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3410.000     2.48  2495.88  2495.88      .00  2496.59      .71     9.63      .04  2495.30
    163.        2.      117.      44.       1.       16.       9.      31.      22.   2493.40
     .74      1.94      7.36     4.98     .050     .040     .050     .000  2493.40  9986.87
  .022691     530.      530.     530.       9       19        0      .00    20.24 10007.11


*SECNO 3460.000
 3460.000     2.22  2500.92      .00      .00  2501.45      .53     4.84      .02  2498.70
    163.       61.       97.       5.      14.       14.       2.      32.      22.   2499.60
     .75      4.38      6.72     2.61     .050     .040     .050     .000  2498.70  9987.84
  .015529     260.      260.     260.       4        0        0      .00    23.09 10010.93


*SECNO 3520.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
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*SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
3520.000	2.05	2510.45	2510.45	.00	2510.93	.48	6.48	.00	2510.50
163.	0.	78.	85.	0.	13.	17.	32.	22.	2508.40
.77	.00	6.18	4.96	.000	.040	.050	.000	2508.40	9987.72
.027301	310.	320.	330.	4	10	0	.00	29.09	10016.81

*SECNO 3560.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3560.000	2.46	2518.56	2518.56	.00	2519.21	.65	5.38	.05	2516.10
163.	39.	124.	0.	8.	18.	0.	32.	22.	2518.40
.78	5.22	6.84	.85	.050	.040	.050	.000	2516.10	9993.69
.024079	210.	210.	210.	20	11	0	.00	21.44	10015.14

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T1      FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LA027815.H2
        50 YEAR FLOOD FREQUENCY MODEL
T3      WILLOW SPR. WASH, TRIB.1 (WST1.DAT)

J1  ICHECK   INQ     NINV    IDIR    STRT    METRIC  NVINS   Q       WSEL    FQ

             3                       .015                            2096.96

J2  NPROF    IPLOT   PRFVS   XSECV   XSECH   FN      ALLDC   IBW     CHNIM   ITRACE

    2                -1
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q      QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*PROF 2

CCHV=     .100 CEHV=     .300
*SECNO 790.000
3720 CRITICAL DEPTH ASSUMED
       *******REVISED STREAMFLOWS FROM CVCRK43R.OUT**********
         COMMON SECTION IS SEC. 790 FROM WILLOW SPRINGS WASH (HTA)
         SEC. 000 = SEC. 0.80 OF WILLOW SPRINGS WASH (HTA)
         QT VALUES ARE FROM SUBWTRSHD F1 + PC 32 (SEC.000 - 880)
         SLOPE AREA METHOD USED ON STARTING WATER SURFACE
  790.000     1.97  2096.97  2096.97  2096.96  2097.84      .87      .00      .00  2096.00
   1226.      17.    1206.       3.       9.     160.       2.       0.       0.   2096.00
     .00     1.83     7.55     1.79     .050     .030     .050     .000  2095.00  9940.67
  .010053     0.       0.       0.        0        5        0      .00   107.96 10048.63


*SECNO 90.000

3265 DIVIDED FLOW

 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   90.000     2.09  2107.49  2107.49      .00  2108.09      .61     6.40      .03  2109.50
   1226.      612.     594.      20.     118.      82.       8.       2.       2.   2106.60
     .02     5.20     7.26     2.40     .050     .030     .050     .000  2105.40  9806.14
  .019349     300.     530.     550.        9        8        0      .00   188.52 10044.81


*SECNO 170.000

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.81

  170.000     4.12  2111.32  2110.97      .00  2112.41     1.09     4.17      .14  2115.40
   1226.       0.     1152.      74.       0.     134.      27.       4.       3.   2107.30
     .04      .00     8.61     2.78     .000     .030     .050     .000  2107.20  9973.59
  .005923     450.     420.     340.        8       14        0      .00    74.19 10047.78


*SECNO 220.000
  220.000     3.53  2113.13  2113.10      .00  2114.33     1.20     1.89      .03  2112.20
   1226.       4.     1222.       0.       2.     139.       0.       5.       3.   2113.40
     .04     1.71     8.81      .00     .050     .030     .000     .000  2109.60  9965.32
  .009306     270.     260.     180.        4       15        0      .00    59.61 10024.93
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 270.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

270.000	4.02	2117.52	2117.52	.00	2118.33	.81	1.84	.04	2115.40
1226.	179.	975.	71.	79.	122.	30.	6.	4.	2115.70
.05	2.26	8.00	2.39	.050	.030	.050	.000	2113.50	9891.43
.005550	240.	260.	310.	20	8	0	.00	150.81	10042.24

*SECNO 350.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

350.000	3.72	2121.42	2121.42	.00	2122.39	.98	2.71	.05	2120.70
1226.	56.	1170.	0.	30.	144.	0.	8.	5.	2123.70
.07	1.84	8.11	.00	.050	.030	.000	.000	2117.70	9906.61
.007756	360.	420.	470.	2	11	0	.00	112.73	10019.34

*SECNO 420.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

420.000	3.58	2124.38	2124.38	.00	2125.57	1.19	2.85	.06	2122.00
1226.	102.	1122.	2.	33.	123.	1.	9.	6.	2123.20
.08	3.12	9.10	1.61	.050	.030	.050	.000	2120.80	9953.18
.007798	310.	370.	410.	1	8	0	.00	75.34	10028.53

*SECNO 520.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

520.000	2.90	2131.10	2131.10	.00	2131.83	.73	4.55	.05	2130.10
1226.	0.	790.	435.	0.	98.	115.	11.	7.	2130.30
.10	1.04	8.10	3.78	.050	.030	.050	.000	2128.20	9980.33
.009647	520.	530.	510.	20	15	0	.00	175.83	10156.16

*SECNO 630.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

630.000	3.45	2137.45	2137.45	.00	2138.07	.62	5.14	.01	2136.50
1226.	37.	780.	409.	17.	103.	131.	14.	9.	2136.80
.13	2.19	7.59	3.13	.050	.030	.050	.000	2134.00	9938.80
.009904	640.	580.	420.	4	11	0	.00	206.29	10145.10

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 :NO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
  Q      QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 700.000
 700.000     4.40  2140.80      .00      .00  2141.56      .75     3.44      .04  2140.10
   1226.       0.    1225.       1.       0.     176.       1.      16.      10.   2140.10
     .14     1.23     6.97     1.32     .050     .035     .050     .000  2136.40  9957.95
 .008854     340.     370.     360.        3        0        0      .00    78.67 10036.62


*SECNO 780.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 780.000     4.09  2145.49  2145.49      .00  2146.61     1.12     3.91      .11  2144.10
   1226.     157.    1053.      16.      46.     116.       6.      17.      11.   2143.40
     .16     3.39     9.05     2.86     .050     .035     .050     .000  2141.40  9939.25
 .009571     500.     420.     420.        2       11        0      .00    80.16 10019.40


*SECNO 880.000
 880.000     4.64  2149.94  2149.93      .00  2151.43     1.49     4.71      .11  2148.60
   1226.      16.    1210.       0.       8.     123.       0.      19.      12.   2149.70
     .17     2.10     9.87      .03     .050     .030     .050     .000  2145.30  9973.49
    .3344     500.     530.     490.        4        8        0      .00    48.14 10021.63


*SECNO 980.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
        QT VALUES ARE FROM (.58)*F1 + PC 32 (SEC.980 - 1520)
 980.000     4.38  2156.78  2156.78      .00  2157.82     1.05     4.90      .04  2159.60
    908.       0.     908.       0.       0.     111.       0.      21.      13.   2157.00
     .19      .00     8.21      .00     .000     .030     .000     .000  2152.40  9984.37
 .010740     500.     530.     540.       10       11        0      .00    53.62 10037.99


*SECNO 1070.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
1070.000     3.82  2162.02  2162.02      .00  2163.36     1.34     4.79      .09  2161.20
    908.       3.     899.       6.       2.      97.       3.      22.      13.   2160.40
     .20     1.56     9.31     2.31     .050     .030     .050     .000  2158.20  9974.04
 .009298     500.     480.     420.        2       15        0      .00    42.15 10016.18
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q      QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 1190.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1190.000     3.43  2175.03  2175.03      .00  2176.20     1.17     6.00      .02  2173.70
    908.        4.     893.      10.       2.     102.       3.      23.      14.   2173.10
     .22      2.58     8.75     3.24     .040     .030     .040     .000  2171.60  9977.64
  .009750     650.     630.     640.       16       11        0      .00    47.93 10025.58


*SECNO 1300.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1300.000     3.71  2185.41  2185.41      .00  2186.45     1.05     5.62      .01  2185.60
    908.        0.     883.      25.       0.     106.       8.      25.      15.   2183.90
     .24       .00     8.31     3.01     .000     .030     .040     .000  2181.70  9975.70
  .009654     540.     580.     560.       14        8        0      .00    58.26 10033.96


*SECNO 1380.000
 20 TRIALS ATTEMPTED WSEL,CWSEL
 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1380.000     3.43  2196.13  2196.13      .00  2197.00      .87     5.11      .02  2199.10
    908.        0.     908.       0.       0.     121.       0.      26.      15.   2198.50
     .26       .00     7.49      .00     .000     .035     .000     .000  2192.70  9951.49
  .015753     460.     420.     460.       20       11        0      .00    72.31 10023.80


*SECNO 1450.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1450.000     2.24  2203.24  2203.24      .00  2203.94      .70     5.94      .02  2204.00
    908.        0.     908.       0.       0.     135.       0.      27.      16.   2204.10
     .27       .00     6.70      .00     .000     .035     .000     .000  2201.00  9952.08
  .016373     320.     370.     360.       10       14        0      .00    98.70 10050.77


*SECNO 1520.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1520.000     3.91  2208.81  2208.81      .00  2209.96     1.15     4.30      .14  2208.10
    908.        3.     895.       9.       2.     103.       5.      28.      17.   2208.00
     .29      1.73     8.68     1.89     .040     .030     .040     .000  2204.90  9981.46
  .008678     350.     370.     320.        3       14        0      .00    57.04 10038.49
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q      QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 1580.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
          QT VALUES ARE FROM SBWTRSHD F1B (SEC.1580 - 2770)
 1580.000     2.86  2213.06  2213.06      .00  2214.01      .95     3.07      .02  2216.10
     537.       0.     537.       0.       0.      69.       0.      29.      17.   2215.40
      .30      .00     7.84      .00     .000     .030     .000     .000  2210.20  9983.82
  .011441     370.     320.     330.        8       15        0      .00    37.22 10021.04


*SECNO 1650.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1650.000     2.50  2222.00  2222.00      .00  2222.86      .86     4.20      .01  2223.60
     537.       0.     537.       0.       0.      72.       0.      29.      17.   2224.30
      .31      .00     7.44      .00     .000     .030     .000     .000  2219.50  9978.28
  .011262     370.     370.     370.       20       11        0      .00    42.40 10020.69


SECNO 1730.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1730.000     2.34  2229.44  2229.44      .00  2230.16      .72     5.82      .01  2227.20
     537.     256.     245.      36.      52.      29.       9.      30.      18.   2227.10
      .33     4.93     8.56     4.24     .050     .040     .050     .000  2227.10  9959.00
  .017631     410.     420.     430.        8       11        0      .00    60.82 10019.83


*SECNO 1780.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1780.000     3.30  2234.20  2234.20      .00  2235.26     1.06     4.17      .10  2230.90
     537.      54.     395.      88.      12.      43.      21.      31.      18.   2231.60
      .34     4.70     9.24     4.25     .050     .040     .050     .000  2230.90  9978.52
  .014660     260.     260.     260.        2       11        0      .00    37.38 10015.90


*SECNO 1820.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1820.000     3.59  2243.59  2243.59      .00  2244.85     1.26     3.12      .06  2241.60
     537.      14.     416.     107.       4.      42.      20.      31.      18.   2240.00
      .35     3.41     9.86     5.25     .050     .040     .050     .000  2240.00  9990.23
  .015233     220.     210.     200.       20        8        0      .00    28.59 10018.82
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
          QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 1880.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1880.000     3.32  2252.32  2252.32      .00  2253.27      .95     5.35      .03  2249.00
    537.       88.     161.     289.      16.      15.      45.      31.      18.   2249.40
     .36     5.45    10.74     6.35     .050     .040     .050     .000  2249.00  9985.63
  .018460     320.     320.     320.       13       11        0      .00    39.81 10025.44


*SECNO 1960.000
 1960.000     2.84  2259.34      .00      .00  2260.10      .76     6.82      .02  2256.60
    537.      102.     217.     218.      21.      25.      39.      32.      19.   2256.50
     .37     4.97     8.83     5.60     .050     .040     .050     .000  2256.50  9977.66
  .014376     420.     420.     420.        4        0        0      .00    43.10 10020.76


*SECNO 2040.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    .000     3.19  2271.39  2271.39      .00  2272.34      .95     6.68      .06  2268.20
    537.      131.     176.     230.      24.      17.      36.      33.      19.   2268.40
     .39     5.38    10.58     6.37     .050     .040     .050     .000  2268.20  9979.83
  .018075     440.     420.     400.       12        8        0      .00    39.44 10019.27


*SECNO 2100.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2100.000     2.44  2280.34  2280.34      .00  2281.20      .86     6.48      .01  2278.90
    537.       10.     239.     288.       3.      28.      44.      34.      20.   2277.90
     .40     3.40     8.53     6.50     .050     .040     .050     .000  2277.90  9981.46
  .021852     300.     320.     340.       10       15        0      .00    46.00 10027.46


*SECNO 2160.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2160.000     2.78  2287.18  2287.18      .00  2288.17      .99     5.62      .04  2284.40
    537.       84.     431.      22.      19.      50.       6.      34.      20.   2284.80
     .41     4.50     8.67     3.77     .050     .040     .050     .000  2284.40  9978.07
  .014761     340.     320.     300.        4       11        0      .00    37.56 10015.63
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*SECNO 2240.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2240.000     1.96  2297.16  2297.16      .00  2298.05      .89     7.45      .01  2295.30
    537.       13.     306.     217.       3.      36.      34.      35.      20.   2295.20
     .43     3.86     8.42     6.39     .050     .040     .050     .000  2295.20  9996.34
  .021731     420.     420.     420.        2       19        0      .00    42.66 10039.00


*SECNO 2330.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2330.000     3.36  2311.66  2311.66      .00  2312.62      .96     9.10      .02  2308.30
    537.      196.     227.     114.      36.      22.      23.      36.      21.   2308.60
     .45     5.38    10.42     5.02     .050     .040     .050     .000  2308.30  9971.63
  .016685     480.     480.     480.        9       14        0      .00    43.36 10014.98


*SECNO 2370.000
 MINIMUM SPECIFIC ENERGY
 CRITICAL DEPTH ASSUMED
 2370.000     2.97  2317.47  2317.47      .00  2318.41      .94     3.23      .00  2314.60
    537.       19.     343.     175.       5.      38.      36.      36.      21.   2314.50
     .45     3.80     9.05     4.83     .050     .040     .050     .000  2314.50  9984.11
  .014229     210.     210.     210.       11       11        0      .00    40.89 10025.00


*SECNO 2420.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2420.000     3.59  2327.19  2327.19      .00  2328.18      .99     4.40      .01  2323.60
    537.      145.     118.     274.      22.      10.      45.      37.      21.   2323.60
     .46     6.65    12.18     6.10     .055     .040     .055     .000  2323.60  9989.64
  .019539     240.     260.     280.       20       11        0      .00    36.59 10026.23


*SECNO 2480.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2480.000     2.24  2335.14  2335.14      .00  2335.72      .57     6.28      .04  2332.90
    537.      321.     208.       8.      78.      25.       2.      37.      22.   2333.30
     .48     4.13     8.30     3.11     .055     .040     .055     .000  2332.90  9930.82
  .019282     340.     320.     300.       11       14        0      .00    84.12 10014.94
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 2570.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2570.000     3.91  2345.71  2345.71      .00  2346.67      .96    10.19      .12  2342.20
    537.      179.     70.     289.      30.      5.      40.      38.      22.   2341.80
     .50     5.92    13.25     7.15     .055     .040     .055     .000  2341.80  9981.71
  .023291    490.     480.     470.        3       17        0      .00    39.16 10020.87


*SECNO 2630.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2630.000     3.82  2354.92  2354.92      .00  2355.94     1.01     6.93      .02  2353.60
    537.        3.     221.     313.       1.     22.      49.      39.      23.   2351.10
     .51     2.52    10.06     6.38     .055     .040     .055     .000  2351.10  9992.11
  .019726    310.     320.     330.        4        8        0      .00    37.11 10029.22


*SECNO 2710.000
 20 TRIALS ATTEMPTED WSEL,CWSEL
ROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2710.000     4.57  2367.77  2367.77      .00  2368.71      .93     7.92      .01  2363.20
    537.       73.     160.     304.      14.     14.      55.      40.      23.   2364.60
     .53     5.29    11.47     5.49     .055     .040     .055     .000  2363.20  9990.37
  .017218    400.     420.     440.       20       11        0      .00    44.44 10034.81


*SECNO 2770.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2770.000     2.97  2376.07  2376.07      .00  2377.03      .97     5.37      .01  2374.20
    537.       26.     398.     113.       8.     46.      22.      40.      23.   2373.10
     .54     3.31     8.70     5.11     .055     .040     .055     .000  2373.10  9972.62
  .016948    340.     320.     300.       20       14        0      .00    41.25 10013.87


*SECNO 2820.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
        QT VALUES ARE FROM (0.45)* SBWTRSHD F1B (2820 - END)
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
2820.000	2.79	2382.49	2382.49	.00	2383.43	.94	4.41	.00	2379.90
244.	4.	156.	84.	2.	17.	20.	40.	23.	2379.70
.55	2.38	9.21	4.27	.055	.040	.055	.000	2379.70	9992.44
.016482	250.	260.	270.	20	11	0	.00	21.71	10014.15

*SECNO 2890.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2890.000	2.61	2394.51	2394.51	.00	2395.11	.59	7.30	.03	2391.90
244.	19.	210.	15.	4.	32.	5.	41.	24.	2393.10
.56	4.25	6.48	3.24	.055	.040	.055	.000	2391.90	9993.80
.023595	350.	370.	390.	9	11	0	.00	36.36	10039.57

*SECNO 2980.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2980.000	2.56	2405.76	2405.76	.00	2406.54	.78	10.08	.06	2403.20
244.	18.	175.	51.	4.	22.	11.	41.	24.	2404.40
.58	4.16	7.91	4.50	.050	.040	.050	.000	2403.20	9985.54
.018905	500.	480.	460.	4	5	0	.00	25.09	10010.63

*SECNO 3070.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3070.000	3.16	2423.36	2423.36	.00	2424.14	.78	10.44	.00	2420.20
244.	82.	162.	0.	13.	22.	0.	42.	24.	2424.30
.60	6.15	7.53	.00	.050	.040	.000	.000	2420.20	9991.18
.025393	470.	480.	490.	12	11	0	.00	23.04	10014.22

*SECNO 3160.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3160.000	2.23	2440.83	2440.83	.00	2441.35	.52	11.98	.03	2438.60
244.	165.	79.	0.	30.	13.	0.	42.	25.	2441.00
.63	5.53	6.24	.00	.050	.040	.000	.000	2438.60	9970.31
.025047	470.	480.	490.	5	16	0	.00	41.03	10011.34

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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q      QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 3220.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3220.000     3.63  2453.83  2453.83      .00  2454.63      .80     7.85      .09  2451.20
    244.       66.     178.       0.      13.      23.       0.      42.      25.   2455.10
     .64     5.25     7.79      .00     .050     .040     .000     .000  2450.20  9990.40
  .022705     340.     320.     300.       13       14        0      .00    22.05 10012.45


*SECNO 3310.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3310.000     4.37  2478.77  2478.77      .00  2480.13     1.36     8.42      .17  2474.40
    244.       10.     193.      41.       4.      19.       9.      43.      25.   2475.70
     .65     2.92    10.32     4.33     .050     .040     .050     .000  2474.40  9998.38
    3919     500.     480.     450.       20       11        0      .00    12.76 10011.15


*SECNO 3410.000

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3410.000     2.96  2496.36  2496.36      .00  2497.21      .85     8.70      .05  2495.30
    244.        7.     172.      65.       3.      21.      13.      43.      25.   2493.40
     .67     2.69     8.21     5.21     .050     .040     .050     .000  2493.40  9984.64
  .019648     530.     530.     530.       11       19        0      .00    23.83 10008.48


*SECNO 3460.000
 3460.000     2.56  2501.26  2501.21      .00  2501.99      .73     4.77      .01  2498.70
    244.       97.     138.       9.      19.      17.       3.      43.      25.   2499.60
     .68     5.22     7.97     3.21     .050     .040     .050     .000  2498.70  9986.28
  .017150     260.     260.     260.        6       15        0      .00    25.38 10011.66


*SECNO 3520.000
7185 MINIMUM SPECIFIC ENERGY
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q      QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


3720 CRITICAL DEPTH ASSUMED
 3520.000     2.34  2510.74  2510.74      .00  2511.39      .65     6.95      .01  2510.50
     244.       0.     119.     124.       0.      16.      23.      44.      26.   2508.40
      .70     1.21     7.34     5.52     .050     .040     .050     .000  2508.40  9985.71
  .028228     310.     320.     330.        9       11        0      .00    33.53 10019.24


*SECNO 3560.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3560.000     2.90  2519.00  2519.00      .00  2519.78      .77     4.92      .04  2516.10
     244.      59.     182.       3.      11.      24.       2.      44.      26.   2518.40
      .71     5.52     7.52     1.87     .050     .040     .050     .000  2516.10  9992.02
  .019754     210.     210.     210.       14       11        0      .00    26.82 10018.84
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      FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LA027815.H2
T2    100 YEAR FLOOD FREQUENCY MODEL
T3    WILLOW SPR. WASH, TRIB.1 (WST1.DAT)

J1  ICHECK   INQ     NINV    IDIR    STRT    METRIC  HVINS   Q       WSEL    FQ

             4                   .015                            2097.17

J2  NPROF    IPLOT   PRFVS   XSECV   XSECH   FN      ALLDC   IBW     CHNIM   ITRACE

    3                -1
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 :NO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q      QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME   VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE  XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*PROF 3

CCHV=     .100 CEHV=     .300
*SECNO 790.000
3720 CRITICAL DEPTH ASSUMED
       *******REVISED STREAMFLOWS FROM CVCRK43R.OUT**********
         COMMON SECTION IS SEC. 790 FROM WILLOW SPRINGS WASH (HTA)
         SEC. 000 = SEC. 0.80 OF WILLOW SPRINGS WASH (HTA)
         QT VALUES ARE FROM SUBWTRSHD F1 + PC 32 (SEC.000 - 880)
         SLOPE AREA METHOD USED ON STARTING WATER SURFACE
  790.000     2.17  2097.17  2097.17  2097.17  2098.13      .95      .00      .00  2096.00
   1438.       28.    1405.       5.      14.     177.       3.       0.       0.   2096.00
     .00     2.04     7.92     2.00     .050     .030     .050     .000  2095.00  9936.53
  .009629      0.       0.       0.        0        5        0      .00   112.87 10049.40


*SECNO 90.000

3265 DIVIDED FLOW

 :.  MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   90.000     2.24  2107.64  2107.64      .00  2108.29      .65     6.07      .03  2109.50
   1438.      701.     707.      29.     132.      94.      11.       2.       2.   2106.60
     .02     5.29     7.56     2.58     .050     .030     .050     .000  2105.40  9803.75
  .018014     300.     530.     550.       10        8        0      .00   197.80 10048.05


*SECNO 170.000

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.65

  170.000     4.34  2111.54  2111.46      .00  2112.82     1.28     4.34      .19  2115.40
   1438.       0.    1334.      104.       0.     142.      35.       4.       3.   2107.30
     .03      .00     9.37     2.96     .000     .030     .050     .000  2107.20  9972.95
  .006602     450.     420.     340.        8       14        0      .00    77.97 10050.92


*SECNO 220.000
  220.000     3.87  2113.47  2113.41      .00  2114.75     1.27     1.93      .00  2112.20
   1438.       8.    1430.       0.       4.     157.       0.       5.       3.   2113.40
     .04     2.01     9.08      .03     .050     .030     .050     .000  2109.60  9963.59
     :577    270.     260.     180.        6       11        0      .00    63.56 10027.15
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 270.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  270.000     4.21  2117.71  2117.71      .00  2118.59      .89     1.82      .04  2115.40
    1438.     245.     1099.      95.     95.     129.      35.      6.       4.   2115.70
      .05     2.56     8.52     2.70    .050     .030     .050     .000  2113.50  9890.90
  .005828     240.     260.     310.      20        8        0      .00   151.72 10042.62


*SECNO 350.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  350.000     4.01  2121.71  2121.71      .00  2122.70      .99     2.66      .03  2120.70
    1438.     105.     1333.      0.     48.     161.      0.       9.       5.   2123.70
      .07     2.17     8.29      .00    .050     .030     .000     .000  2117.70  9896.74
  .007108     360.     420.     470.       6       11        0      .00   123.16 10019.90


*SECNO 420.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  420.000     3.89  2124.69  2124.69      .00  2125.96     1.27     2.65      .08  2122.00
    1438.     146.     1289.      3.     44.     136.      2.      10.       6.   2123.20
      .08     3.29     9.48     1.83    .050     .030     .050     .000  2120.80  9945.39
  .007419     310.     370.     410.       2        8        0      .00    83.56 10028.96


*SECNO 520.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  520.000     3.08  2131.28  2131.28      .00  2132.07      .79     4.40      .05  2130.10
    1438.       0.      900.     538.      0.     106.     139.     13.       8.   2130.30
      .10     1.16     8.49     3.86    .050     .030     .050     .000  2128.20  9980.24
  .009524     520.     530.     510.      18       15        0      .00   177.35 10157.59


*SECNO 630.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  630.000     3.59  2137.59  2137.59      .00  2138.27      .68     5.12      .01  2136.50
    1438.      52.      882.     504.     21.     110.     148.     16.      10.   2136.80
      .12     2.46     8.01     3.41    .050     .030     .050     .000  2134.00  9936.11
  .010074     640.     580.     420.       4       11        0      .00   210.36 10146.47
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
  Q       QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 700.000
 700.000     4.59  2140.99      .00      .00  2141.87      .88     3.54      .06  2140.10
   1438.      1.    1435.       2.       1.     191.       1.      18.      11.   2140.10
     .14     1.49     7.52     1.60     .050     .035     .050     .000  2136.40  9957.65
 .009227     340.     370.     360.        2        0        0      .00    79.77 10037.41


*SECNO 780.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 780.000     4.36  2145.76  2145.76      .00  2146.97     1.21     4.00      .10  2144.10
   1438.     217.    1199.      22.      57.     126.       7.      20.      12.   2143.40
     .15     3.79     9.52     3.09     .050     .035     .050     .000  2141.40  9937.46
 .009531     500.     420.     420.        2       11        0      .00    82.63 10020.09


*SECNO 880.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    .000     4.98  2150.28  2150.28      .00  2151.92     1.64     4.62      .13  2148.60
   .438.      31.    1407.       0.      11.     136.       0.      22.      12.   2149.70
     .16     2.71    10.38      .93     .050     .030     .050     .000  2145.30  9972.99
 .008082     500.     530.     490.        3        8        0      .00    49.00 10021.98


*SECNO 980.000

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
        QT VALUES ARE FROM (.58)*F1 + PC 32 (SEC.980 - 1520)
 980.000     4.66  2157.06  2157.06      .00  2158.16     1.10     4.73      .05  2159.60
   1065.       0.    1065.       0.       0.     127.       0.      23.      13.   2157.00
     .18      .00     8.42      .03     .000     .030     .050     .000  2152.40  9983.71
 .010303     500.     530.     540.       11       12        0      .00    57.53 10041.24


*SECNO 1070.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
1070.000     4.15  2162.35  2162.35      .00  2163.80     1.45     4.54      .10  2161.20
   1065.       6.    1050.       9.       3.     108.       4.      25.      14.   2160.40
     .20     1.89     9.72     2.53     .050     .030     .050     .000  2158.20  9972.47
 .008728     500.     480.     420.        2       11        0      .00    44.35 10016.82
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  SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
  Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
  SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*SECNO 1190.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1190.000     3.70  2175.30  2175.30      .00  2176.59     1.29     5.70      .02  2173.70
    1065.       7.    1044.      14.       2.     113.       4.      26.      14.   2173.10
      .22     2.86     9.20     3.47     .040     .030     .040     .000  2171.60  9977.12
  .009371     650.     630.     640.       20       11        0      .00    48.91 10026.03


*SECNO 1300.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1300.000     3.95  2185.65  2185.65      .00  2186.80     1.15     5.46      .01  2185.60
    1065.       0.    1028.      37.       0.     118.      11.      28.      15.   2183.90
      .23      .04     8.72     3.29     .040     .030     .040     .000  2181.70  9974.71
  .009489     540.     580.     560.       15        8        0      .00    61.04 10035.75


*SECNO 1380.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1380.000     3.64  2196.34  2196.34      .00  2197.29      .95     5.00      .02  2199.10
    1065.       0.    1065.       0.       0.     136.       0.      29.      16.   2198.50
      .25      .00     7.81      .00     .000     .035     .000     .000  2192.70  9949.78
  .015307     460.     420.     460.       20       11        0      .00    74.75 10024.53


*SECNO 1450.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1450.000     2.42  2203.42  2203.42      .00  2204.17      .75     5.79      .02  2204.00
    1065.       0.    1065.       0.       0.     153.       0.      31.      16.   2204.10
      .26      .00     6.96      .00     .000     .035     .000     .000  2201.00  9950.87
  .016018     320.     370.     360.       10       14        0      .00   103.65 10054.52


*SECNO 1520.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1520.000     4.23  2209.13  2209.13      .00  2210.34     1.21     4.04      .14  2208.10
    1065.       9.    1035.      22.       4.     116.      10.      32.      17.   2208.00
      .28     2.11     8.95     2.25     .040     .030     .040     .000  2204.90  9979.02
  .007925     350.     370.     320.        3       14        0      .00    64.29 10043.31
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*SECNO 1580.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
        QT VALUES ARE FROM SBWTRSHD F1B (SEC.1580 - 2770)
 1580.000     3.15  2213.35  2213.35      .00  2214.30      .95     2.86      .03  2216.10
     629.       0.     629.       0.       0.      80.       0.      33.      18.   2215.40
      .29      .00     7.84      .00     .000     .030     .000     .000  2210.20  9983.33
  .011072     370.     320.     330.       20       15        0      .00    42.49 10025.82


*SECNO 1650.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1650.000     2.70  2222.20  2222.20      .00  2223.14      .93     4.10      .00  2223.60
     629.       0.     629.       0.       0.      81.       0.      33.      18.   2224.30
      .30      .00     7.75      .00     .000     .030     .000     .000  2219.50  9977.20
  .011102     370.     370.     370.       20       15        0      .00    44.29 10021.50


*SECNO 1730.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1730.000     2.51  2229.61  2229.61      .00  2230.39      .78     5.77      .02  2227.20
     629.     309.     276.      44.      59.      31.      10.      34.      18.   2227.10
      .32     5.24     8.98     4.44     .050     .040     .050     .000  2227.10  9957.50
  .017625     410.     420.     430.        8       11        0      .00    62.87 10020.36


*SECNO 1780.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1780.000     3.57  2234.47  2234.47      .00  2235.60     1.13     4.11      .11  2230.90
     629.      66.     451.     113.      13.      47.      25.      35.      19.   2231.60
      .33     4.88     9.66     4.47     .050     .040     .050     .000  2230.90  9977.95
  .014248     260.     260.     260.        2       11        0      .00    39.60 10017.55


*SECNO 1820.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
1820.000	3.91	2243.91	2243.91	.00	2245.26	1.35	3.02	.07	2241.60
629.	20.	478.	131.	5.	46.	24.	35.	19.	2240.00
.33	3.69	10.30	5.45	.050	.040	.050	.000	2240.00	9989.59
.014662	220.	210.	200.	20	8	0	.00	30.22	10019.81

*SECNO 1880.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1880.000	3.55	2252.55	2252.55	.00	2253.57	1.02	5.22	.03	2249.00
629.	104.	180.	345.	18.	16.	51.	36.	19.	2249.40
.34	5.68	11.21	6.71	.050	.040	.050	.000	2249.00	9984.96
.018295	320.	320.	320.	13	11	0	.00	41.45	10026.41

*SECNO 1960.000

1960.000	3.06	2259.56	.00	.00	2260.40	.84	6.81	.02	2256.60
629.	125.	245.	259.	23.	26.	43.	36.	20.	2256.50
.36	5.32	9.29	5.97	.050	.040	.050	.000	2256.50	9977.02
4455	420.	420.	420.	4	0	0	.00	44.16	10021.18

*SECNO 2040.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2040.000	3.42	2271.62	2271.62	.00	2272.65	1.03	6.69	.06	2268.20
629.	157.	198.	274.	28.	18.	40.	37.	20.	2268.40
.38	5.62	11.06	6.78	.050	.040	.050	.000	2268.20	9978.73
.017972	440.	420.	400.	12	8	0	.00	40.96	10019.69

*SECNO 2100.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2100.000	2.64	2280.54	2280.54	.00	2281.48	.93	6.36	.01	2278.90
629.	15.	277.	338.	4.	31.	50.	38.	20.	2277.90
.39	3.65	8.97	6.75	.050	.040	.050	.000	2277.90	9980.86
.021140	300.	320.	340.	4	15	0	.00	47.76	10028.62

*SECNO 2160.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
2160.000	3.03	2287.43	2287.43	.00	2288.49	1.06	5.42	.04	2284.40
629.	109.	492.	28.	23.	54.	7.	39.	21.	2284.80
.40	4.82	9.03	3.95	.050	.040	.050	.000	2284.40	9974.93
.014200	340.	320.	300.	3	8	0	.00	41.22	10016.15

*SECNO 2240.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2240.000	2.16	2297.36	2297.36	.00	2298.34	.98	7.18	.01	2295.30
629.	17.	357.	255.	4.	40.	38.	39.	21.	2295.20
.41	4.07	8.85	6.70	.050	.040	.050	.000	2295.20	9995.94
.020946	420.	420.	420.	3	19	0	.00	43.41	10039.34

*SECNO 2330.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2330.000	3.64	2311.94	2311.94	.00	2312.91	.96	8.53	.00	2308.30
629.	239.	251.	139.	43.	24.	27.	40.	22.	2308.60
.43	5.57	10.57	5.11	.050	.040	.050	.000	2308.30	9969.44
.015282	480.	480.	480.	10	14	0	.00	46.95	10016.39

*SECNO 2370.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2370.000	3.19	2317.69	2317.69	.00	2318.71	1.02	3.09	.02	2314.60
629.	23.	388.	218.	6.	41.	42.	41.	22.	2314.50
.44	3.98	9.49	5.20	.050	.040	.050	.000	2314.50	9983.83
.014163	210.	210.	210.	20	15	0	.00	43.03	10026.86

*SECNO 2420.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2420.000	3.83	2327.43	2327.43	.00	2328.50	1.07	4.39	.02	2323.60
629.	169.	132.	329.	24.	10.	51.	41.	22.	2323.60
.45	7.02	12.72	6.48	.055	.040	.055	.000	2323.60	9989.40
.019579	240.	260.	280.	20	11	0	.00	38.17	10027.56

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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q      QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 2480.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2480.000     2.37  2335.27  2335.27      .00  2335.90      .63     6.37      .04  2332.90
    629.      387.     233.      9.      87.      27.       3.      42.      22.   2333.30
     .46     4.47     8.75     3.29     .055     .040     .055     .000  2332.90  9930.44
  .019820     340.     320.     300.        9       14        0      .00    84.67 10015.12


*SECNO 2570.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2570.000     4.15  2345.95  2345.95      .00  2346.98     1.03    10.29      .12  2342.20
    629.      212.      77.     340.      34.       6.      46.      43.      23.   2341.80
     .48     6.16    13.75     7.46     .055     .040     .055     .000  2341.80  9980.52
  .023075     490.     480.     470.        4       17        0      .00    41.60 10022.12


*SECNO 2630.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2630.000     4.05  2355.15  2355.15      .00  2356.27     1.12     6.94      .03  2353.60
    629.        5.      252.     372.       2.       24.      56.      44.      24.   2351.10
     .49     2.82    10.65     6.69     .055     .040     .055     .000  2351.10  9991.79
  .019939     310.     320.     330.        4        5        0      .00    39.49 10031.27


*SECNO 2710.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2710.000     4.81  2368.01  2368.01      .00  2369.00      .99     8.00      .01  2363.20
    629.       84.     177.     368.      15.       15.      64.      45.      24.   2364.60
     .51     5.49    11.98     5.78     .055     .040     .055     .000  2363.20  9990.06
  .017360     400.     420.     440.       20       11        0      .00    47.29 10037.35


*SECNO 2770.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2770.000     3.20  2376.30  2376.30      .00  2377.35     1.04     5.29      .02  2374.20
    629.       35.     457.     137.      10.       50.      25.      45.      24.   2373.10
     .52     3.52     9.11     5.38     .055     .040     .055     .000  2373.10  9971.55
  .016395     340.     320.     300.       16       14        0      .00    43.11 10014.66
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
          QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 2820.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
        QT VALUES ARE FROM (0.45)* SBWTRSHD F1B (2820 - END)
 2820.000     3.05  2382.75  2382.75      .00  2383.73      .98     4.23      .01  2379.90
     286.      5.     177.     104.       2.      19.      24.      46.      24.   2379.70
      .53     2.46     9.51     4.40     .055     .040     .055     .000  2379.70  9992.31
  .015468     250.     260.     270.       20       10        0      .00    23.20 10015.51


*SECNO 2890.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2890.000     2.77  2394.67  2394.67      .00  2395.29      .63     7.00      .04  2391.90
     286.     22.     245.      19.       5.      37.       6.      46.      25.   2393.10
      .54     4.38     6.67     3.44     .055     .040     .055     .000  2391.90  9993.59
   .3187     350.     370.     390.       10       15        0      .00    39.13 10040.28


*SECNO 2980.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2980.000     2.75  2405.95  2405.95      .00  2406.79      .85     9.82      .07  2403.20
     286.     22.     201.      64.       5.      24.      13.      47.      25.   2404.40
      .56     4.29     8.28     4.82     .050     .040     .050     .000  2403.20  9985.29
  .018293     500.     480.     460.        2        5        0      .00    25.74 10011.03


*SECNO 3070.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3070.000     3.36  2423.56  2423.56      .00  2424.39      .83    10.14      .00  2420.20
     286.     95.     191.       0.      15.      25.       0.      47.      25.   2424.30
      .58     6.33     7.77      .00     .050     .040     .000     .000  2420.20  9990.64
  .024780     470.     480.     490.       13       11        0      .00    24.57 10015.21


*SECNO 3160.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3160.000     2.35  2440.95  2440.95      .00  2441.52      .57    12.06      .03  2438.60
    286.      194.     92.       0.      33.      14.       0.      48.      26.   2441.00
     .60     5.82     6.58      .00     .050     .040     .000     .000  2438.60  9968.39
  .026025     470.     480.     490.      20       19        0      .00    43.54 10011.92


*SECNO 3220.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3220.000     3.84  2454.04  2454.04      .00  2454.90      .85     7.94      .08  2451.20
    286.       80.     206.       0.      15.      26.       0.      48.      26.   2455.10
     .61     5.48     8.04      .00     .050     .040     .000     .000  2450.20  9989.64
  .022365     340.     320.     300.      13       14        0      .00    23.53 10013.17


*SECNO 3310.000

 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3310.000     4.72  2479.12  2479.12      .00  2480.57     1.46     8.22      .18  2474.40
    286.       12.     220.      54.       4.      20.      12.      48.      26.   2475.70
     .63     3.02    10.78     4.58     .050     .040     .050     .000  2474.40  9998.25
  .013511     500.     480.     450.      20       11        0      .00    13.58 10011.83


*SECNO 3410.000

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3410.000     3.18  2496.58  2496.58      .00  2497.49      .91     8.34      .05  2495.30
    286.       11.     198.      77.       4.      23.      14.      49.      26.   2493.40
     .65     2.96     8.54     5.31     .050     .040     .050     .000  2493.40  9983.63
  .018576     530.     530.     530.      12       19        0      .00    25.47 10009.10
```

[illegible]CNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
[illegible]	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 3460.000

3460.000	2.71	2501.41	2501.40	.00	2502.24	.83	4.75	.01	2498.70
286.	116.	158.	12.	21.	19.	3.	49.	27.	2499.60
.66	5.59	8.55	3.48	.050	.040	.050	.000	2498.70	9985.61
.017977	260.	260.	260.	4	15	0	.00	26.37	10011.98

*SECNO 3520.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

3520.000	2.50	2510.90	2510.90	.00	2511.60	.70	6.94	.01	2510.50
286.	1.	141.	144.	1.	18.	26.	49.	27.	2508.40
.67	1.65	7.70	5.60	.050	.040	.050	.000	2508.40	9984.58
.026556	310.	320.	330.	9	11	0	.00	35.98	10020.57

*SECNO 3560.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

[illegible].000	3.10	2519.20	2519.20	.00	2520.02	.82	4.61	.04	2516.10
286.	69.	211.	6.	12.	27.	3.	50.	27.	2518.40
.68	5.62	7.82	2.19	.050	.040	.050	.000	2516.10	9991.27
.018476	210.	210.	210.	18	11	0	.00	29.23	10020.50

```
      FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LA027815.H2
T2    500 YEAR FLOOD FREQUENCY MODEL
T3    WILLOW SPR. WASH TRIB.1 (WST1.DAT)

J1  ICHECK   INQ     NINV    IDIR    STRT    METRIC  HVINS   Q       WSEL    FQ

             5                       .015                            2097.52

J2  NPROF    IPLOT   PRFVS   XSECV   XSECH   FN      ALLDC   IBW     CHNIM   ITRACE

    15               -1
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*PROF 4

CCHV=     .100 CEHV=     .300
*SECNO 790.000
3720 CRITICAL DEPTH ASSUMED
       *******REVISED STREAMFLOWS FROM CVCRK43R.OUT**********
         COMMON SECTION IS SEC. 790 FROM WILLOW SPRINGS WASH (HTA)
         SEC. 000 = SEC. 0.80 OF WILLOW SPRINGS WASH (HTA)
         QT VALUES ARE FROM SUBWTRSHD F1 + PC 32 (SEC.000 - 880)
         SLOPE AREA METHOD USED ON STARTING WATER SURFACE
  790.000     2.52  2097.52  2097.52  2097.52  2098.61     1.08      .00      .00  2096.00
   1822.       54.    1758.      10.      23.     207.       4.       0.       0.   2096.00
     .00     2.35     8.49     2.30     .050     .030     .050     .000  2095.00  9929.55
  .008998      0.       0.       0.        0        5        0      .00   121.16 10050.71


*SECNO 90.000

3265 DIVIDED FLOW

 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   90.000     2.47  2107.87  2107.87      .00  2108.61      .74     5.69      .03  2109.50
   1822.      867.     906.      49.     156.     112.      17.       3.       2.   2106.60
     .02     5.54     8.10     2.86     .050     .030     .050     .000  2105.40  9800.13
  .016955     300.     530.     550.       12        5        0      .00   212.18 10052.97


*SECNO 170.000

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  170.000     4.85  2112.05  2112.05      .00  2113.48     1.43     4.26      .21  2115.40
   1822.       0.    1635.     187.       0.     163.      56.       5.       3.   2107.30
     .03      .00    10.05     3.36     .000     .030     .050     .000  2107.20  9971.49
  .006690     450.     420.     340.        3       14        0      .00    92.48 10063.96


*SECNO 220.000
  220.000     4.31  2113.91  2113.89      .00  2115.43     1.52     1.92      .03  2112.20
   1822.       18.    1802.       2.       7.     181.       2.       6.       4.   2113.40
     .04     2.43     9.93     1.09     .050     .030     .050     .000  2109.60  9961.41
  .008500     270.     260.     180.        3       15        0      .00    71.77 10033.17
```

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 270.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

270.000	4.52	2118.02	2118.02	.00	2119.03	1.01	1.87	.05	2115.40
1822.	372.	1310.	140.	122.	141.	44.	8.	4.	2115.70
.05	3.05	9.31	3.18	.050	.030	.050	.000	2113.50	9890.01
.006195	240.	260.	310.	20	8	0	.00	153.23	10043.25

*SECNO 350.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

350.000	4.41	2122.11	2122.11	.00	2123.19	1.08	2.68	.02	2120.70
1822.	207.	1615.	0.	76.	184.	0.	10.	5.	2123.70
.06	2.70	8.79	.00	.050	.030	.000	.000	2117.70	9889.49
.006840	360.	420.	470.	8	8	0	.00	131.17	10020.66

*SECNO 420.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

420.000	4.44	2125.24	2125.24	.00	2126.59	1.35	2.45	.08	2122.00
1822.	244.	1572.	6.	70.	158.	3.	12.	6.	2123.20
.07	3.46	9.93	2.13	.050	.030	.050	.000	2120.80	9930.27
.006647	310.	370.	410.	2	5	0	.00	99.44	10029.71

*SECNO 520.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

520.000	3.37	2131.57	2131.57	.00	2132.46	.88	4.13	.05	2130.10
1822.	1.	1089.	732.	1.	119.	178.	16.	8.	2130.30
.09	1.34	9.15	4.12	.050	.030	.050	.000	2128.20	9980.10
.009463	520.	530.	510.	17	19	0	.00	179.75	10159.85

*SECNO 630.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

```
 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 630.000     3.83  2137.83  2137.83      .00  2138.59      .76     5.09      .01  2136.50
   1822.      84.    1058.     680.      29.     122.     178.      19.      10.   2136.80
     .12     2.87     8.64     3.83     .050     .030     .050     .000  2134.00  9931.44
 .010153     640.     580.     420.        4       11        0      .00   217.36 10148.79


*SECNO 700.000
 700.000     4.90  2141.30  2141.12      .00  2142.41     1.11     3.72      .10  2140.10
   1822.       2.    1812.       8.       1.     214.       7.      21.      12.   2140.10
     .13     1.88     8.47     1.23     .050     .035     .050     .000  2136.40  9957.19
 .010083     340.     370.     360.        4       11        0      .00   112.04 10069.24


*SECNO 780.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 780.000     4.81  2146.21  2146.21      .00  2147.57     1.36     4.17      .08  2144.10
   1822.     333.    1455.       34.     76.     142.      10.      24.      13.   2143.40
     .14     4.38    10.26     3.45     .050     .035     .050     .000  2141.40  9934.52
 `9451       500.     420.     420.        2        5        0      .00    86.69 10021.21


*SECNO 880.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 880.000     5.60  2150.90  2150.90      .00  2152.74     1.85     4.42      .14  2148.60
   1822.      66.    1755.        1.     19.     158.       1.      26.      13.   2149.70
     .16     3.41    11.09     1.45     .050     .030     .050     .000  2145.30  9969.92
 .007509     500.     530.     490.        2        8        0      .00    52.68 10022.60


*SECNO 980.000

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
        QT VALUES ARE FROM (.58)*F1 + PC 32 (SEC.980 - 1520)
 980.000     5.06  2157.46  2157.46      .00  2158.79     1.33     4.51      .05  2159.60
   1385.       0.    1385.        0.       0.     150.       0.      28.      14.   2157.00
     .17      .00     9.25     1.10     .000     .030     .050     .000  2152.40  9982.78
 .010183     500.     530.     540.       11       15        0      .00    59.97 10042.75
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CNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 1070.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1070.000	4.75	2162.95	2162.95	.00	2164.61	1.66	4.31	.10	2161.20
1385.	18.	1349.	18.	7.	129.	6.	30.	15.	2160.40
.18	2.39	10.47	2.89	.050	.030	.050	.000	2158.20	9969.59
.007987	500.	480.	420.	2	11	0	.00	48.41	10018.00

*SECNO 1190.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1190.000	4.20	2175.80	2175.80	.00	2177.32	1.51	5.28	.01	2173.70
1385.	14.	1347.	24.	4.	135.	6.	32.	15.	2173.10
.20	3.33	10.00	3.85	.040	.030	.040	.000	2171.60	9976.14
.008787	650.	630.	640.	20	11	0	.00	50.75	10026.89

*SECNO 1300.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1300.000	4.41	2186.11	2186.11	.00	2187.43	1.32	5.09	.02	2185.60
1385.	1.	1317.	67.	0.	140.	18.	34.	16.	2183.90
.22	1.37	9.42	3.70	.040	.030	.040	.000	2181.70	9973.00
.008798	540.	580.	560.	20	8	0	.00	66.17	10039.16

*SECNO 1380.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1380.000	4.02	2196.72	2196.72	.00	2197.80	1.08	4.69	.02	2199.10
1385.	0.	1385.	0.	0.	166.	0.	35.	17.	2198.50
.23	.00	8.34	.00	.000	.035	.000	.000	2192.70	9946.58
.014569	460.	420.	460.	20	11	0	.00	79.31	10025.89

*SECNO 1450.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1450.000	2.73	2203.73	2203.73	.00	2204.58	.85	5.54	.02	2204.00
1385.	0.	1385.	0.	0.	187.	0.	37.	18.	2204.10
.25	.00	7.39	.00	.000	.035	.000	.000	2201.00	9948.66
.05411	320.	370.	360.	10	19	0	.00	112.73	10061.38

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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 1520.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1520.000     4.84  2209.74  2209.74      .00  2210.99     1.25     3.55      .12  2208.10
    1385.      27.    1294.      64.      10.      140.      23.      38.      19.   2208.00
      .26     2.63     9.26     2.79     .040     .030     .040     .000  2204.90  9974.32
  .006591     350.     370.     320.        3       14        0      .00    77.96 10052.28


*SECNO 1580.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
          QT VALUES ARE FROM SBWTRSHD F1B (SEC.1580 - 2770)
 1580.000     3.50  2213.70  2213.70      .00  2214.74     1.04     2.50      .02  2216.10
     784.       0.     784.       0.       0.       96.       0.      39.      19.   2215.40
      .27      .00     8.19      .00     .000     .030     .000     .000  2210.20  9982.76
  .010880     370.     320.     330.       20       19        0      .00    46.81 10029.57


.0 1650.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1650.000     3.03  2222.53  2222.53      .00  2223.57     1.03     4.00      .00  2223.60
     784.       0.     784.       0.       0.       96.       0.      40.      19.   2224.30
      .28      .00     8.16      .00     .000     .030     .000     .000  2219.50  9975.50
  .010720     370.     370.     370.       20       15        0      .00    47.23 10022.72


*SECNO 1730.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1730.000     2.77  2229.87  2229.87      .00  2230.75      .87     5.64      .02  2227.20
     784.     401.     326.      57.      71.       34.      12.      41.      20.   2227.10
      .30     5.68     9.58     4.73     .050     .040     .050     .000  2227.10  9955.15
  .017496     410.     420.     430.        9       11        0      .00    66.04 10021.19


*SECNO 1780.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1780.000     3.98  2234.88  2234.88      .00  2236.12     1.24     4.01      .11  2230.90
     784.      86.     540.     158.      17.       53.      33.      42.      20.   2231.60
      .31     5.15    10.26     4.80     .050     .040     .050     .000  2230.90  9977.08
   3711      260.     260.     260.        1       11        0      .00    42.98 10020.06
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 CNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME   VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE  XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 1820.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1820.000     4.39  2244.39  2244.39      .00  2245.89     1.50     2.89      .08  2241.60
    784.       32.     577.     174.       8.      53.      30.      42.      20.  2240.00
     .31     4.08    10.95     5.75     .050     .040     .050     .000  2240.00  9988.61
  .013976     220.     210.     200.       20        8        0      .00    32.71 10021.32


*SECNO 1880.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1880.000     3.90  2252.90  2252.90      .00  2254.04     1.14     5.07      .04  2249.00
    784.      133.     211.     440.      22.      18.      61.      43.      21.  2249.40
     .32     6.01    11.91     7.23     .050     .040     .050     .000  2249.00  9983.94
  .018089     320.     320.     320.       14       15        0      .00    43.96 10027.90


*  O 1960.000
   .000     3.38  2259.88      .00      .00  2260.84      .96     6.78      .02  2256.60
    784.      164.     292.     327.      28.      29.      50.      44.      21.  2256.50
     .34     5.82     9.97     6.49     .050     .040     .050     .000  2256.50  9976.03
  .014495     420.     420.     420.        4        0        0      .00    45.80 10021.83


*SECNO 2040.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2040.000     3.78  2271.98  2271.98      .00  2273.13     1.15     6.66      .06  2268.20
    784.      203.     233.     348.      34.      20.      47.      45.      22.  2268.40
     .35     5.97    11.77     7.35     .050     .040     .050     .000  2268.20  9977.04
  .017771     440.     420.     400.       13        8        0      .00    43.29 10020.33


*SECNO 2100.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2100.000     2.96  2280.86  2280.86      .00  2281.91     1.05     6.17      .01  2278.90
    784.       23.     340.     421.       6.      35.      59.      46.      22.  2277.90
     .36     4.01     9.59     7.09     .050     .040     .050     .000  2277.90  9979.92
  .020077     300.     320.     340.       10       15        0      .00    50.53 10030.44
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
          QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 2160.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2160.000     3.43  2287.83  2287.83      .00  2288.98     1.15     5.11      .03  2284.40
    784.      155.     589.     39.      30.      62.      9.      46.      22.   2284.80
     .37      5.10     9.51     4.20     .050     .040     .050     .000  2284.40  9969.98
  .013286     340.     320.     300.       2        8        0      .00    46.98 10016.96


*SECNO 2240.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2240.000     2.48  2297.68  2297.68      .00  2298.80     1.12     6.78      .00  2295.30
    784.       24.     440.     320.       6.      46.      45.      47.      23.   2295.20
     .39      4.37     9.50     7.17     .050     .040     .050     .000  2295.20  9995.31
  .020048     420.     420.     420.       3       19        0      .00    44.57 10039.88


*SECNO 2330.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2330.000     3.99  2312.29  2312.29      .00  2313.34     1.04     8.26      .01  2308.30
    784.      314.     291.     179.      52.      26.      33.      49.      23.   2308.60
     .41      6.07    11.12     5.39     .050     .040     .050     .000  2308.30  9966.40
  .014916     480.     480.     480.      11       14        0      .00    51.68 10018.09


*SECNO 2370.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2370.000     3.55  2318.05  2318.05      .00  2319.18     1.13     3.02      .02  2314.60
    784.       31.     460.     294.       7.      46.      52.      49.      23.   2314.50
     .41      4.24    10.10     5.67     .050     .040     .050     .000  2314.50  9983.40
  .013890     210.     210.     210.      20       11        0      .00    46.41 10029.81


*SECNO 2420.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2420.000     4.20  2327.80  2327.80      .00  2328.99     1.19     4.34      .02  2323.60
    784.      209.     153.     422.      28.      11.      61.      50.      24.   2323.60
     .42      7.52    13.48     6.98     .055     .040     .055     .000  2323.60  9989.01
  .019445     240.     260.     280.      20       11        0      .00    40.63 10029.64
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
          QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 2480.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2480.000     2.57  2335.47  2335.47      .00  2336.19      .72     6.43      .05  2332.90
    784.     498.     274.      12.     101.      29.       3.      51.      24.   2333.30
     .44     4.96     9.40     3.56     .055     .040     .055     .000  2332.90  9929.84
  .020307     340.     320.     300.        9       14        0      .00    85.56 10015.40


*SECNO 2570.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2570.000     4.52  2346.32  2346.32      .00  2347.44     1.12    10.35      .12  2342.20
    784.     270.      88.     425.      42.       6.      54.      52.      25.   2341.80
     .45     6.51    14.48     7.89     .055     .040     .055     .000  2341.80  9978.73
  .022735     490.     480.     470.        4       17        0      .00    45.30 10024.03


*SECNO 2630.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2630.000     4.45  2355.55  2355.55      .00  2356.76     1.21     6.72      .03  2353.60
    784.       9.     302.     474.       3.       27.      68.      53.      25.   2351.10
     .46     3.20    11.27     6.96     .055     .040     .055     .000  2351.10  9991.22
  .018995     310.     320.     330.        3        5        0      .00    43.63 10034.85


*SECNO 2710.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2710.000     5.16  2368.36  2368.36      .00  2369.44     1.08     7.85      .01  2363.20
    784.     101.     204.     479.      18.       16.      78.      54.      26.   2364.60
     .48     5.77    12.70     6.18     .055     .040     .055     .000  2363.20  9989.60
  .017478     400.     420.     440.       20       11        0      .00    51.59 10041.19


*SECNO 2770.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2770.000     3.56  2376.66  2376.66      .00  2377.83     1.17     5.22      .03  2374.20
    784.      53.     554.     178.      14.       57.      31.      54.      26.   2373.10
     .49     3.84     9.74     5.76     .055     .040     .055     .000  2373.10  9969.94
  .015866     340.     320.     300.       13       19        0      .00    45.90 10015.84
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 2820.000

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
QT VALUES ARE FROM (0.45)* SBWTRSHD F1B (2820 - END)

2820.000	3.51	2383.21	2383.21	.00	2384.20	.98	3.96	.02	2379.90
360.	7.	210.	143.	3.	21.	33.	55.	26.	2379.70
.50	2.53	9.78	4.33	.055	.040	.055	.000	2379.70	9992.09
.013498	250.	260.	270.	20	6	0	.00	36.72	10039.55

*SECNO 2890.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

.000	3.03	2394.93	2394.93	.00	2395.59	.66	6.33	.03	2391.90
360.	27.	305.	28.	6.	44.	8.	55.	27.	2393.10
.51	4.51	6.86	3.70	.055	.040	.055	.000	2391.90	9993.26
.021863	350.	370.	390.	13	12	0	.00	43.73	10041.46

*SECNO 2980.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2980.000	3.05	2406.25	2406.25	.00	2407.20	.95	9.33	.09	2403.20
360.	28.	245.	87.	6.	28.	16.	56.	27.	2404.40
.53	4.50	8.84	5.28	.050	.040	.050	.000	2403.20	9984.88
.017492	500.	480.	460.	4	5	0	.00	26.78	10011.66

*SECNO 3070.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3070.000	3.67	2423.87	2423.87	.00	2424.78	.91	9.75	.00	2420.20
360.	119.	241.	0.	18.	30.	0.	57.	27.	2424.30
.55	6.60	8.14	.00	.050	.040	.000	.000	2420.20	9989.81
.023949	470.	480.	490.	14	11	0	.00	26.95	10016.76

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 3160.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3160.000	2.57	2441.17	2441.17	.00	2441.79	.62	11.48	.03	2438.60
360.	243.	117.	0.	41.	17.	0.	57.	28.	2441.00
.57	5.95	7.05	.05	.050	.040	.050	.000	2438.60	9964.67
.024387	470.	480.	490.	10	16	0	.00	47.74	10012.42

*SECNO 3220.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3220.000	4.17	2454.37	2454.37	.00	2455.30	.93	7.62	.09	2451.20
360.	106.	254.	0.	18.	30.	0.	58.	28.	2455.10
.58	5.84	8.43	.00	.050	.040	.000	.000	2450.20	9988.46
.021930	340.	320.	300.	14	14	0	.00	25.83	10014.29

*SECNO 3310.000

HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3310.000	5.26	2479.66	2479.66	.00	2481.27	1.61	7.97	.20	2474.40
360.	16.	266.	78.	5.	23.	16.	58.	28.	2475.70
.60	3.19	11.50	4.96	.050	.040	.050	.000	2474.40	9998.05
.013011	500.	480.	450.	20	11	0	.00	14.87	10012.92

*SECNO 3410.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3410.000	3.53	2496.93	2496.93	.00	2497.91	.99	7.86	.06	2495.30
360.	21.	242.	97.	6.	27.	18.	59.	29.	2493.40
.61	3.34	9.03	5.46	.050	.040	.050	.000	2493.40	9981.99
.017068	530.	530.	530.	20	14	0	.00	28.11	10010.10

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 3460.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3460.000	3.01	2501.71	2501.71	.00	2502.65	.94	4.50	.00	2498.70
360.	150.	192.	18.	25.	21.	5.	59.	29.	2499.60
.62	5.96	9.16	3.80	.050	.040	.050	.000	2498.70	9984.29
.017519	260.	260.	260.	4	15	0	.00	28.31	10012.60

*SECNO 3520.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3520.000	2.77	2511.17	2511.17	.00	2511.93	.77	6.55	.02	2510.50
360.	3.	177.	179.	2.	22.	31.	59.	29.	2508.40
.64	2.20	8.20	5.71	.050	.040	.050	.000	2508.40	9982.75
.024169	310.	320.	330.	10	11	0	.00	39.97	10022.72

*SECNO 3560.000
3720 TRIALS ATTEMPTED WSEL,CWSEL
7185 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3560.000	3.42	2519.52	2519.52	.00	2520.41	.89	4.21	.04	2516.10
360.	88.	258.	14.	15.	31.	5.	60.	29.	2518.40
.64	5.76	8.26	2.61	.050	.040	.050	.000	2516.10	9990.09
.016919	210.	210.	210.	20	11	0	.00	33.03	10023.12

THIS RUN EXECUTED 3/ 8/90 10:49:59

****
HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989

ERROR CORR - 01,02,03
MODIFICATION -
****

NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

WILLOW SPR. TRIB. 1 (WST

SUMMARY PRINTOUT

	SECNO	CWSEL	Q	DEPTH	VLOB	VCH	VROB	QLOB	QCH	QROB	TOPWID	10*KS	DIFWSX
*	790.000	2096.52	816.00	1.52	1.28	6.68	1.26	3.44	811.93	.63	97.29	113.38	.00
*	790.000	2096.97	1226.00	1.97	1.83	7.55	1.79	17.13	1205.73	3.14	107.96	100.53	.00
*	790.000	2097.17	1438.00	2.17	2.04	7.92	2.00	28.13	1404.71	5.16	112.87	96.29	.00
	790.000	2097.52	1822.00	2.52	2.35	8.49	2.30	54.46	1757.55	9.99	121.16	89.98	.00
*	90.000	2107.16	816.00	1.76	4.93	6.41	1.92	438.14	371.40	6.45	169.15	226.01	10.65
*	90.000	2107.49	1226.00	2.09	5.20	7.26	2.40	611.92	594.13	19.95	188.52	193.49	10.52
*	90.000	2107.64	1438.00	2.24	5.29	7.56	2.58	701.22	707.32	29.46	197.80	180.14	10.47
*	90.000	2107.87	1822.00	2.47	5.54	8.10	2.86	867.03	905.95	49.02	212.18	169.55	10.35
*	170.000	2110.75	816.00	3.55	.00	6.98	2.71	.00	781.21	34.79	49.72	46.46	3.58
*	170.000	2111.32	1226.00	4.12	.00	8.61	2.78	.00	1151.77	74.23	74.19	59.23	3.83
*	170.000	2111.54	1438.00	4.34	.00	9.37	2.96	.00	1334.13	103.87	77.97	66.02	3.90
*	170.000	2112.05	1822.00	4.85	.00	10.05	3.36	.00	1634.90	187.10	92.48	66.90	4.18
*	220.000	2112.44	816.00	2.84	.75	8.01	.00	.11	815.88	.00	53.02	107.43	1.70
	220.000	2113.13	1226.00	3.53	1.71	8.81	.00	3.82	1222.18	.00	59.61	93.06	1.81
	220.000	2113.47	1438.00	3.87	2.01	9.08	.03	8.35	1429.65	.00	63.56	85.77	1.93
	220.000	2113.91	1822.00	4.31	2.43	9.93	1.09	17.99	1802.08	1.94	71.77	85.00	1.86
*	270.000	2116.99	816.00	3.49	1.64	7.20	1.70	57.02	733.42	25.55	148.23	57.14	4.54
*	270.000	2117.52	1226.00	4.02	2.26	8.00	2.39	179.45	975.43	71.12	150.81	55.50	4.39
*	270.000	2117.71	1438.00	4.21	2.56	8.52	2.70	244.67	1098.74	94.59	151.72	58.28	4.23
*	270.000	2118.02	1822.00	4.52	3.05	9.31	3.18	372.33	1309.81	139.86	153.23	61.95	4.11
*	350.000	2120.68	816.00	2.98	.00	7.87	.00	.00	816.00	.00	54.59	108.90	3.69
*	350.000	2121.42	1226.00	3.72	1.84	8.11	.00	55.77	1170.22	.00	112.73	77.56	3.90
*	350.000	2121.71	1438.00	4.01	2.17	8.29	.00	105.15	1332.85	.00	123.16	71.08	4.00
*	350.000	2122.11	1822.00	4.41	2.70	8.79	.00	206.90	1615.10	.00	131.17	68.40	4.09
	420.000	2123.90	816.00	3.10	2.32	7.42	1.04	46.18	769.46	.35	62.75	65.18	3.22
*	420.000	2124.38	1226.00	3.58	3.12	9.10	1.61	102.48	1121.98	1.54	75.34	77.98	2.97
*	420.000	2124.69	1438.00	3.89	3.29	9.48	1.83	145.78	1289.40	2.82	83.56	74.19	2.99
*	420.000	2125.24	1822.00	4.44	3.46	9.93	2.13	243.65	1572.23	6.13	99.44	66.47	3.13

	SECNO	CWSEL	Q	DEPTH	VLOB	VCH	VROB	QLOB	QCH	QROB	TOPWID	10*KS	DIFWSX
*	520.000	2130.58	816.00	2.38	.03	7.50	3.99	.00	557.21	258.78	116.24	119.06	6.68
*	520.000	2131.10	1226.00	2.90	1.04	8.10	3.78	.25	790.41	435.34	175.83	96.47	6.72
*	520.000	2131.28	1438.00	3.08	1.16	8.49	3.86	.38	900.05	537.57	177.35	95.24	6.59
*	520.000	2131.57	1822.00	3.37	1.34	9.15	4.12	.69	1089.36	731.95	179.75	94.63	6.33
*	630.000	2137.15	816.00	3.15	1.53	6.57	2.49	13.23	570.24	232.52	197.80	93.23	6.57
*	630.000	2137.45	1226.00	3.45	2.19	7.59	3.13	37.02	779.91	409.06	206.29	99.04	6.35
*	630.000	2137.59	1438.00	3.59	2.46	8.01	3.41	52.19	881.80	504.01	210.36	100.74	6.31
*	630.000	2137.83	1822.00	3.83	2.87	8.64	3.83	84.20	1057.89	679.91	217.36	101.53	6.25
	700.000	2140.34	816.00	3.94	.03	5.78	.03	.00	816.00	.00	76.87	81.78	3.20
	700.000	2140.80	1226.00	4.40	1.23	6.97	1.32	.46	1224.75	.80	78.67	88.54	3.35
	700.000	2140.99	1438.00	4.59	1.49	7.52	1.60	.91	1435.50	1.59	79.77	92.27	3.40
	700.000	2141.30	1822.00	4.90	1.88	8.47	1.23	2.05	1811.81	8.14	112.04	100.83	3.48
*	780.000	2144.88	816.00	3.48	2.34	7.98	2.30	55.57	754.03	6.40	74.56	98.16	4.54
*	780.000	2145.49	1226.00	4.09	3.39	9.05	2.86	157.43	1052.71	15.87	80.16	95.71	4.69
*	780.000	2145.76	1438.00	4.36	3.79	9.52	3.09	216.84	1199.29	21.87	82.63	95.31	4.77
*	780.000	2146.21	1822.00	4.81	4.38	10.26	3.45	332.80	1454.75	34.44	86.69	94.51	4.91
	880.000	2149.28	816.00	3.98	1.25	8.21	.00	2.50	813.50	.00	41.77	74.12	4.40
	880.000	2149.94	1226.00	4.64	2.10	9.87	.03	15.76	1210.24	.00	48.14	83.44	4.45
*	880.000	2150.28	1438.00	4.98	2.71	10.38	.93	30.87	1406.97	.16	49.00	80.82	4.52
	880.000	2150.90	1822.00	5.60	3.41	11.09	1.45	66.29	1754.67	1.04	52.68	75.09	4.69
*	980.000	2156.10	604.00	3.70	.00	7.74	.00	.00	604.00	.00	42.97	113.31	6.82
*	980.000	2156.78	908.00	4.38	.00	8.21	.00	.00	908.00	.00	53.62	107.40	6.84
*	980.000	2157.06	1065.00	4.66	.00	8.42	.03	.00	1065.00	.00	57.53	103.03	6.78
*	980.000	2157.46	1385.00	5.06	.00	9.25	1.10	.00	1384.55	.45	59.97	101.83	6.57
*	1070.000	2161.36	604.00	3.16	.03	8.23	1.72	.00	602.45	1.54	37.62	105.08	5.25
*	1070.000	2162.02	908.00	3.82	1.56	9.31	2.31	2.55	899.48	5.97	42.15	92.98	5.25
*	1070.000	2162.35	1065.00	4.15	1.89	9.72	2.53	6.01	1049.57	9.41	44.35	87.28	5.29
*	1070.000	2162.95	1385.00	4.75	2.39	10.47	2.89	17.59	1349.03	18.38	48.41	79.87	5.48
*	1190.000	2174.45	604.00	2.85	1.86	7.71	2.70	1.00	598.84	4.16	45.83	108.92	13.09
*	1190.000	2175.03	908.00	3.43	2.58	8.75	3.24	4.38	893.40	10.22	47.93	97.50	13.00
*	1190.000	2175.30	1065.00	3.70	2.86	9.20	3.47	7.02	1043.78	14.20	48.91	93.71	12.95
*	1190.000	2175.80	1385.00	4.20	3.33	10.00	3.85	14.18	1346.90	23.92	50.75	87.87	12.86
*	1300.000	2184.83	604.00	3.13	.00	7.47	2.29	.00	596.62	7.38	51.62	106.39	10.39
*	1300.000	2185.41	908.00	3.71	.00	8.31	3.01	.00	882.73	25.27	58.26	96.54	10.38
*	1300.000	2185.65	1065.00	3.95	.04	8.72	3.29	.00	1027.68	37.31	61.04	94.89	10.35
*	1300.000	2186.11	1385.00	4.41	1.37	9.42	3.70	.67	1317.34	66.99	66.17	87.98	10.31
*	1380.000	2195.64	604.00	2.94	.00	6.87	.00	.00	604.00	.00	62.06	165.96	10.81
*	1380.000	2196.13	908.00	3.43	.00	7.49	.00	.00	908.00	.00	72.31	157.53	10.73
*	1380.000	2196.34	1065.00	3.64	.00	7.81	.00	.00	1065.00	.00	74.75	153.07	10.69
*	1380.000	2196.72	1385.00	4.02	.00	8.34	.00	.00	1385.00	.00	79.31	145.69	10.61

	SECNO	CWSEL	Q	DEPTH	VLOB	VCH	VROB	QLOB	QCH	QROB	TOPWID	10*KS	DIFWSX
*	1450.000	2202.85	604.00	1.85	.00	6.10	.00	.00	604.00	.00	87.49	175.89	7.21
*	1450.000	2203.24	908.00	2.24	.00	6.70	.00	.00	908.00	.00	98.70	163.73	7.11
*	1450.000	2203.42	1065.00	2.42	.00	6.96	.00	.00	1065.00	.00	103.65	160.18	7.08
*	1450.000	2203.73	1385.00	2.73	.00	7.39	.00	.00	1385.00	.00	112.73	154.11	7.01
*	1520.000	2208.12	604.00	3.22	.04	7.95	.59	.00	603.94	.06	41.20	109.71	5.27
*	1520.000	2208.81	908.00	3.91	1.73	8.68	1.89	3.33	895.25	9.42	57.04	86.78	5.57
*	1520.000	2209.13	1065.00	4.23	2.11	8.95	2.25	8.53	1034.73	21.74	64.29	79.25	5.71
*	1520.000	2209.74	1385.00	4.84	2.63	9.26	2.79	27.13	1293.77	64.10	77.96	65.91	6.01
*	1580.000	2212.53	358.00	2.33	.00	7.12	.00	.00	358.00	.00	32.50	118.81	4.42
*	1580.000	2213.06	537.00	2.86	.00	7.84	.00	.00	537.00	.00	37.22	114.41	4.25
*	1580.000	2213.35	629.00	3.15	.00	7.84	.00	.00	629.00	.00	42.49	110.72	4.22
*	1580.000	2213.70	784.00	3.50	.00	8.19	.00	.00	784.00	.00	46.81	108.80	3.96
*	1650.000	2221.52	358.00	2.02	.00	6.76	.00	.00	358.00	.00	37.94	121.09	8.99
*	1650.000	2222.00	537.00	2.50	.00	7.44	.00	.00	537.00	.00	42.40	112.62	8.94
*	1650.000	2222.20	629.00	2.70	.00	7.75	.00	.00	629.00	.00	44.29	111.02	8.85
*	1650.000	2222.53	784.00	3.03	.00	8.16	.00	.00	784.00	.00	47.23	107.20	8.83
*	1730.000	2229.07	358.00	1.97	4.14	7.52	3.73	154.90	180.37	22.72	56.40	171.79	7.55
*	1730.000	2229.44	537.00	2.34	4.93	8.56	4.24	255.78	244.87	36.36	60.82	176.31	7.44
*	1730.000	2229.61	629.00	2.51	5.24	8.98	4.44	309.24	275.92	43.84	62.87	176.25	7.40
*	1730.000	2229.87	784.00	2.77	5.68	9.58	4.73	400.93	326.01	57.06	66.04	174.96	7.34
*	1780.000	2233.59	358.00	2.69	4.29	8.28	3.72	32.70	280.49	44.81	32.33	160.66	4.51
*	1780.000	2234.20	537.00	3.30	4.70	9.24	4.25	54.06	395.18	87.75	37.38	146.60	4.76
*	1780.000	2234.47	629.00	3.57	4.88	9.66	4.47	65.72	450.73	112.55	39.60	142.48	4.86
*	1780.000	2234.88	784.00	3.98	5.15	10.26	4.80	86.18	540.08	157.73	42.98	137.11	5.00
*	1820.000	2242.90	358.00	2.90	2.69	8.79	4.78	4.61	290.27	63.12	24.96	168.31	9.31
*	1820.000	2243.59	537.00	3.59	3.41	9.86	5.25	13.83	416.33	106.83	28.59	152.33	9.40
*	1820.000	2243.91	629.00	3.91	3.69	10.30	5.45	20.07	477.76	131.17	30.22	146.62	9.44
*	1820.000	2244.39	784.00	4.39	4.08	10.95	5.75	32.40	577.26	174.33	32.71	139.76	9.51
*	1880.000	2251.83	358.00	2.83	4.86	9.50	5.38	56.84	119.86	181.31	36.32	180.85	8.94
*	1880.000	2252.32	537.00	3.32	5.45	10.74	6.35	87.56	160.63	288.80	39.81	184.60	8.72
*	1880.000	2252.55	629.00	3.55	5.68	11.21	6.71	104.13	179.96	344.91	41.45	182.95	8.64
*	1880.000	2252.90	784.00	3.90	6.01	11.91	7.23	132.97	211.15	439.88	43.96	180.89	8.51
	1960.000	2258.85	358.00	2.35	4.14	7.89	4.79	58.91	159.85	139.25	40.66	148.38	7.02
	1960.000	2259.34	537.00	2.84	4.97	8.83	5.60	101.91	216.89	218.19	43.10	143.76	7.02
	1960.000	2259.56	629.00	3.06	5.32	9.29	5.97	124.69	245.50	258.81	44.16	144.55	7.01
	1960.000	2259.88	784.00	3.38	5.82	9.97	6.49	164.33	292.18	327.49	45.80	144.95	6.98
*	2040.000	2270.89	358.00	2.69	4.79	9.37	5.36	83.12	130.84	144.04	36.15	179.66	12.04
*	2040.000	2271.39	537.00	3.19	5.38	10.58	6.37	131.20	176.15	229.65	39.44	180.75	12.05
*	2040.000	2271.62	629.00	3.42	5.62	11.06	6.78	157.38	197.94	273.67	40.96	179.72	12.06
*	2040.000	2271.98	784.00	3.78	5.97	11.77	7.35	203.41	233.07	347.51	43.29	177.71	12.10

	SECNO	CWSEL	Q	DEPTH	VLOB	VCH	VROB	QLOB	QCH	QROB	TOPWID	10*KS	DIFWSX
*	2100.000	2279.88	358.00	1.98	2.79	7.55	5.93	3.97	161.52	192.50	42.06	244.33	8.99
*	2100.000	2280.34	537.00	2.44	3.40	8.53	6.50	10.38	238.54	288.08	46.00	218.52	8.94
*	2100.000	2280.54	629.00	2.64	3.65	8.97	6.75	14.52	276.95	337.53	47.76	211.40	8.92
*	2100.000	2280.86	784.00	2.96	4.01	9.59	7.09	22.71	339.98	421.31	50.53	200.77	8.88
*	2160.000	2286.55	358.00	2.15	4.08	7.91	3.36	45.88	301.64	10.49	32.71	175.51	6.67
*	2160.000	2287.18	537.00	2.78	4.50	8.67	3.77	84.21	431.17	21.62	37.56	147.61	6.84
*	2160.000	2287.43	629.00	3.03	4.82	9.03	3.95	109.17	492.05	27.77	41.22	142.00	6.89
*	2160.000	2287.83	784.00	3.43	5.10	9.51	4.20	155.40	589.44	39.16	46.98	132.86	6.97
*	2240.000	2296.72	358.00	1.52	3.38	7.40	5.64	6.72	207.62	143.67	41.05	237.78	10.17
*	2240.000	2297.16	537.00	1.96	3.86	8.42	6.39	13.13	306.45	217.42	42.66	217.31	9.98
*	2240.000	2297.36	629.00	2.16	4.07	8.85	6.70	17.04	356.53	255.43	43.41	209.46	9.93
*	2240.000	2297.68	784.00	2.48	4.37	9.50	7.17	24.37	440.04	319.59	44.57	200.48	9.85
*	2330.000	2311.12	358.00	2.82	4.79	9.23	4.42	122.69	167.20	68.12	37.23	167.47	14.40
*	2330.000	2311.66	537.00	3.36	5.38	10.42	5.02	195.64	227.10	114.26	43.36	166.85	14.50
*	2330.000	2311.94	629.00	3.64	5.57	10.57	5.11	239.01	250.91	139.08	46.95	152.82	14.58
*	2330.000	2312.29	784.00	3.99	6.07	11.12	5.39	314.46	290.52	179.02	51.68	149.16	14.62
*	2370.000	2316.85	358.00	2.35	3.50	8.36	4.25	10.80	250.50	96.70	35.08	166.48	5.74
*	2370.000	2317.47	537.00	2.97	3.80	9.05	4.83	18.99	343.39	174.62	40.89	142.29	5.81
*	2370.000	2317.69	629.00	3.19	3.98	9.49	5.20	23.20	388.00	217.80	43.03	141.63	5.75
*	2370.000	2318.05	784.00	3.55	4.24	10.10	5.67	30.74	459.58	293.68	46.41	138.90	5.76
*	2420.000	2326.67	358.00	3.07	5.77	10.93	5.15	97.37	90.69	169.94	33.09	193.83	9.82
*	2420.000	2327.19	537.00	3.59	6.65	12.18	6.10	144.82	118.23	273.95	36.59	195.39	9.73
*	2420.000	2327.43	629.00	3.83	7.02	12.72	6.48	168.88	131.52	328.60	38.17	195.79	9.74
*	2420.000	2327.80	784.00	4.20	7.52	13.48	6.98	208.90	152.70	422.40	40.63	194.45	9.75
*	2480.000	2334.81	358.00	1.91	3.53	7.48	2.76	196.10	157.38	4.52	78.43	198.21	8.14
*	2480.000	2335.14	537.00	2.24	4.13	8.30	3.11	321.26	208.20	7.54	84.12	192.82	7.95
*	2480.000	2335.27	629.00	2.37	4.47	8.75	3.29	386.58	233.30	9.12	84.67	198.20	7.84
*	2480.000	2335.47	784.00	2.57	4.96	9.40	3.56	498.32	273.71	11.97	85.56	203.07	7.67
*	2570.000	2345.16	358.00	3.36	5.35	12.07	6.33	114.83	54.11	189.06	33.62	238.32	10.35
*	2570.000	2345.71	537.00	3.91	5.92	13.25	7.15	178.68	69.64	288.68	39.16	232.91	10.57
*	2570.000	2345.95	629.00	4.15	6.16	13.75	7.46	212.47	76.92	339.61	41.60	230.75	10.69
*	2570.000	2346.32	784.00	4.52	6.51	14.48	7.89	270.50	88.40	425.10	45.30	227.35	10.85
*	2630.000	2354.31	358.00	3.21	1.78	9.15	5.88	.65	157.76	199.59	30.73	225.27	9.15
*	2630.000	2354.92	537.00	3.82	2.52	10.06	6.38	3.16	220.82	313.02	37.11	197.26	9.21
*	2630.000	2355.15	629.00	4.05	2.82	10.65	6.69	4.85	252.35	371.80	39.49	199.39	9.20
*	2630.000	2355.55	784.00	4.45	3.20	11.27	6.96	8.69	301.56	473.75	43.63	189.95	9.23
*	2710.000	2367.26	358.00	4.06	4.77	10.18	4.73	51.69	122.95	183.35	38.09	164.16	12.94
*	2710.000	2367.77	537.00	4.57	5.29	11.47	5.49	72.99	160.04	303.97	44.44	172.18	12.85
*	2710.000	2368.01	629.00	4.81	5.49	11.98	5.78	83.65	177.08	368.27	47.29	173.60	12.85
*	2710.000	2368.36	784.00	5.16	5.77	12.70	6.18	101.32	203.76	478.92	51.59	174.78	12.81

	SECNO	CWSEL	Q	DEPTH	VLOB	VCH	VROB	QLOB	QCH	QROB	TOPWID	10*KS	DIFWSX
*	2770.000	2375.56	358.00	2.46	2.78	7.72	4.40	11.64	278.36	68.00	37.23	182.73	8.30
*	2770.000	2376.07	537.00	2.97	3.31	8.70	5.11	26.21	397.77	113.01	41.25	169.48	8.29
*	2770.000	2376.30	629.00	3.20	3.52	9.11	5.38	35.38	456.73	136.90	43.11	163.95	8.30
*	2770.000	2376.66	784.00	3.56	3.84	9.74	5.76	52.68	553.51	177.81	45.90	158.66	8.30
*	2820.000	2381.95	163.00	2.25	2.11	8.23	3.84	2.16	111.48	49.37	18.73	176.77	6.39
*	2820.000	2382.49	244.00	2.79	2.38	9.21	4.27	3.87	155.91	84.21	21.71	164.82	6.42
*	2820.000	2382.75	286.00	3.05	2.46	9.51	4.40	4.87	176.94	104.19	23.20	154.68	6.45
*	2820.000	2383.21	360.00	3.51	2.53	9.78	4.33	6.78	210.28	142.94	36.72	134.98	6.56
*	2890.000	2394.17	163.00	2.27	3.87	5.94	2.69	12.99	142.96	7.05	30.24	235.85	12.22
*	2890.000	2394.51	244.00	2.61	4.25	6.48	3.24	18.90	210.30	14.80	36.36	235.95	12.03
*	2890.000	2394.67	286.00	2.77	4.38	6.67	3.44	21.87	244.75	19.38	39.13	231.87	11.91
*	2890.000	2394.93	360.00	3.03	4.51	6.86	3.70	26.93	304.82	28.25	43.73	218.63	11.71
*	2980.000	2405.40	163.00	2.20	3.73	6.83	3.62	12.18	122.97	27.84	23.85	185.34	11.23
*	2980.000	2405.76	244.00	2.56	4.16	7.91	4.50	18.44	174.95	50.60	25.09	189.05	11.25
*	2980.000	2405.95	286.00	2.75	4.29	8.28	4.82	21.89	200.60	63.52	25.74	182.93	11.28
*	2980.000	2406.25	360.00	3.05	4.50	8.84	5.28	28.26	244.72	87.01	26.78	174.92	11.32
*	3070.000	2422.91	163.00	2.71	5.72	6.94	.00	55.85	107.15	.00	19.59	269.62	17.51
*	3070.000	2423.36	244.00	3.16	6.15	7.53	.00	81.80	162.19	.00	23.04	253.93	17.60
*	3070.000	2423.56	286.00	3.36	6.33	7.77	.00	95.15	190.85	.00	24.57	247.80	17.61
	3070.000	2423.87	360.00	3.67	6.60	8.14	.00	118.52	241.48	.00	26.95	239.49	17.62
*	3160.000	2440.50	163.00	1.90	5.20	5.89	.00	108.94	54.06	.00	33.79	275.88	17.59
*	3160.000	2440.83	244.00	2.23	5.53	6.24	.00	165.00	79.00	.00	41.03	250.47	17.47
*	3160.000	2440.95	286.00	2.35	5.82	6.58	.00	194.00	91.99	.00	43.54	260.25	17.39
*	3160.000	2441.17	360.00	2.57	5.95	7.05	.05	242.50	117.50	.00	47.74	243.87	17.30
*	3220.000	2453.36	163.00	3.16	4.66	7.14	.00	39.10	123.89	.00	18.71	233.17	12.86
*	3220.000	2453.83	244.00	3.63	5.25	7.79	.00	65.59	178.41	.00	22.05	227.05	13.00
*	3220.000	2454.04	286.00	3.84	5.48	8.04	.00	79.91	206.08	.00	23.53	223.65	13.10
*	3220.000	2454.37	360.00	4.17	5.84	8.43	.00	105.78	254.22	.00	25.83	219.30	13.20
*	3310.000	2478.02	163.00	3.62	2.66	9.17	3.71	6.43	136.66	19.91	10.97	148.73	24.66
*	3310.000	2478.77	244.00	4.37	2.92	10.32	4.33	10.33	192.75	40.92	12.76	139.19	24.94
*	3310.000	2479.12	286.00	4.72	3.02	10.78	4.58	12.46	220.01	53.53	13.58	135.11	25.08
*	3310.000	2479.66	360.00	5.26	3.19	11.50	4.96	16.35	265.84	77.81	14.87	130.11	25.29
*	3410.000	2495.88	163.00	2.48	1.94	7.36	4.98	1.55	117.47	43.98	20.24	226.91	17.87
*	3410.000	2496.36	244.00	2.96	2.69	8.21	5.21	7.06	171.58	65.35	23.83	196.48	17.59
*	3410.000	2496.58	286.00	3.18	2.96	8.54	5.31	11.29	197.95	76.75	25.47	185.76	17.46
*	3410.000	2496.93	360.00	3.53	3.34	9.03	5.46	20.66	242.08	97.25	28.11	170.68	17.27
	3460.000	2500.92	163.00	2.22	4.38	6.72	2.61	61.41	96.93	4.66	23.09	155.29	5.03
	3460.000	2501.26	244.00	2.56	5.22	7.97	3.21	96.88	137.90	9.22	25.38	171.50	4.90
	3460.000	2501.41	286.00	2.71	5.59	8.55	3.48	115.65	158.44	11.90	26.37	179.77	4.83
*	3460.000	2501.71	360.00	3.01	5.96	9.16	3.80	150.15	192.21	17.63	28.31	175.19	4.78

	SECNO	CWSEL	Q	DEPTH	VLOB	VCH	VROB	QLOB	QCH	QROB	TOPWID	10*KS	DIFWSX
*	3520.000	2510.45	163.00	2.05	.00	6.18	4.96	.00	77.61	85.38	29.09	273.01	9.53
*	3520.000	2510.74	244.00	2.34	1.21	7.34	5.52	.25	119.39	124.36	33.53	282.28	9.48
*	3520.000	2510.90	286.00	2.50	1.65	7.70	5.60	.94	140.95	144.11	35.98	265.56	9.49
*	3520.000	2511.17	360.00	2.77	2.20	8.20	5.71	3.41	177.28	179.31	39.97	241.69	9.46
*	3560.000	2518.56	163.00	2.46	5.22	6.84	.85	39.23	123.68	.09	21.44	240.79	8.11
*	3560.000	2519.00	244.00	2.90	5.52	7.52	1.87	59.02	182.13	2.85	26.82	197.54	8.26
*	3560.000	2519.20	286.00	3.10	5.62	7.82	2.19	69.43	210.68	5.89	29.23	184.76	8.30
*	3560.000	2519.52	360.00	3.42	5.76	8.26	2.61	87.99	258.44	13.57	33.03	169.19	8.35

SPR. TRIB. 1 (WST

SUMMARY PRINTOUT TABLE 150

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
*	790.000	.00	.00	.00	2095.00	816.00	2096.52	2096.52	2097.21	113.38	6.68	124.65	76.63
*	790.000	.00	.00	.00	2095.00	1226.00	2096.97	2096.97	2097.84	100.53	7.55	170.75	122.28
*	790.000	.00	.00	.00	2095.00	1438.00	2097.17	2097.17	2098.13	96.29	7.92	193.61	146.54
*	790.000	.00	.00	.00	2095.00	1822.00	2097.52	2097.52	2098.61	89.98	8.49	234.46	192.07
*	90.000	530.00	.00	.00	2105.40	816.00	2107.16	2107.16	2107.66	226.01	6.41	150.08	54.28
*	90.000	530.00	.00	.00	2105.40	1226.00	2107.49	2107.49	2108.09	193.49	7.26	207.80	88.14
*	90.000	530.00	.00	.00	2105.40	1438.00	2107.64	2107.64	2108.29	180.14	7.56	237.46	107.14
*	90.000	530.00	.00	.00	2105.40	1822.00	2107.87	2107.87	2108.61	169.55	8.10	285.31	139.93
*	170.000	420.00	.00	.00	2107.20	816.00	2110.75	.00	2111.48	46.46	6.98	124.69	119.71
*	170.000	420.00	.00	.00	2107.20	1226.00	2111.32	2110.97	2112.41	59.23	8.61	160.45	159.30
*	170.000	420.00	.00	.00	2107.20	1438.00	2111.54	2111.46	2112.82	66.02	9.37	177.45	176.98
*	170.000	420.00	.00	.00	2107.20	1822.00	2112.05	2112.05	2113.48	66.90	10.05	218.32	222.76
*	220.000	260.00	.00	.00	2109.60	816.00	2112.44	2112.44	2113.44	107.43	8.01	101.96	78.73
	220.000	260.00	.00	.00	2109.60	1226.00	2113.13	2113.10	2114.33	93.06	8.81	140.89	127.09
	220.000	260.00	.00	.00	2109.60	1438.00	2113.47	2113.41	2114.75	85.77	9.08	161.64	155.27
	220.000	260.00	.00	.00	2109.60	1822.00	2113.91	2113.89	2115.43	85.00	9.93	190.58	197.62
*	270.000	260.00	.00	.00	2113.50	816.00	2116.99	2116.99	2117.72	57.14	7.20	151.66	107.95
*	270.000	260.00	.00	.00	2113.50	1226.00	2117.52	2117.52	2118.33	55.50	8.00	230.99	164.57
*	270.000	260.00	.00	.00	2113.50	1438.00	2117.71	2117.71	2118.59	58.28	8.52	259.46	188.36
*	270.000	260.00	.00	.00	2113.50	1822.00	2118.02	2118.02	2119.03	61.95	9.31	306.81	231.48
*	350.000	420.00	.00	.00	2117.70	816.00	2120.68	2120.68	2121.65	108.90	7.87	103.67	78.20
*	350.000	420.00	.00	.00	2117.70	1226.00	2121.42	2121.42	2122.39	77.56	8.11	174.66	139.21
*	350.000	420.00	.00	.00	2117.70	1438.00	2121.71	2121.71	2122.70	71.08	8.29	209.29	170.56
*	350.000	420.00	.00	.00	2117.70	1822.00	2122.11	2122.11	2123.19	68.40	8.79	260.14	220.30
	420.000	370.00	.00	.00	2120.80	816.00	2123.90	.00	2124.71	65.18	7.42	124.02	101.07
*	420.000	370.00	.00	.00	2120.80	1226.00	2124.38	2124.38	2125.57	77.98	9.10	157.08	138.83
*	420.000	370.00	.00	.00	2120.80	1438.00	2124.69	2124.69	2125.96	74.19	9.48	181.91	166.95
*	420.000	370.00	.00	.00	2120.80	1822.00	2125.24	2125.24	2126.59	66.47	9.93	231.60	223.47
*	520.000	530.00	.00	.00	2128.20	816.00	2130.58	2130.58	2131.26	119.06	7.50	139.24	74.78
*	520.000	530.00	.00	.00	2128.20	1226.00	2131.10	2131.10	2131.83	96.47	8.10	213.04	124.82
*	520.000	530.00	.00	.00	2128.20	1438.00	2131.28	2131.28	2132.07	95.24	8.49	245.54	147.35
*	520.000	530.00	.00	.00	2128.20	1822.00	2131.57	2131.57	2132.46	94.63	9.15	297.24	187.30
*	630.000	580.00	.00	.00	2134.00	816.00	2137.15	2137.15	2137.64	93.23	6.57	188.71	84.51
*	630.000	580.00	.00	.00	2134.00	1226.00	2137.45	2137.45	2138.07	99.04	7.59	250.21	123.19
*	630.000	580.00	.00	.00	2134.00	1438.00	2137.59	2137.59	2138.27	100.74	8.01	279.04	143.27
*	630.000	580.00	.00	.00	2134.00	1822.00	2137.83	2137.83	2138.59	101.53	8.64	329.43	180.82

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
	700.000	370.00	.00	.00	2136.40	816.00	2140.34	.00	2140.86	81.78	5.78	141.23	90.23
	700.000	370.00	.00	.00	2136.40	1226.00	2140.80	.00	2141.56	88.54	6.97	176.77	130.29
	700.000	370.00	.00	.00	2136.40	1438.00	2140.99	.00	2141.87	92.27	7.52	192.60	149.70
	700.000	370.00	.00	.00	2136.40	1822.00	2141.30	2141.12	2142.41	100.83	8.47	221.56	181.45
*	780.000	420.00	.00	.00	2141.40	816.00	2144.88	2144.88	2145.80	98.16	7.98	121.03	82.36
*	780.000	420.00	.00	.00	2141.40	1226.00	2145.49	2145.49	2146.61	95.71	9.05	168.32	125.32
*	780.000	420.00	.00	.00	2141.40	1438.00	2145.76	2145.76	2146.97	95.31	9.52	190.26	147.30
*	780.000	420.00	.00	.00	2141.40	1822.00	2146.21	2146.21	2147.57	94.51	10.26	227.79	187.42
	880.000	530.00	.00	.00	2145.30	816.00	2149.28	.00	2150.33	74.12	8.21	101.05	94.78
	880.000	530.00	.00	.00	2145.30	1226.00	2149.94	2149.93	2151.43	83.44	9.87	130.22	134.22
*	880.000	530.00	.00	.00	2145.30	1438.00	2150.28	2150.28	2151.92	80.82	10.38	147.14	159.96
*	880.000	530.00	.00	.00	2145.30	1822.00	2150.90	2150.90	2152.74	75.09	11.09	178.35	210.25
*	980.000	530.00	.00	.00	2152.40	604.00	2156.10	2156.10	2157.03	113.31	7.74	78.03	56.74
*	980.000	530.00	.00	.00	2152.40	908.00	2156.78	2156.78	2157.82	107.40	8.21	110.60	87.62
*	980.000	530.00	.00	.00	2152.40	1065.00	2157.06	2157.06	2158.16	103.03	8.42	126.54	104.92
*	980.000	530.00	.00	.00	2152.40	1385.00	2157.46	2157.46	2158.79	101.83	9.25	150.06	137.25
*	1070.000	480.00	.00	.00	2158.20	604.00	2161.36	2161.36	2162.40	105.08	8.23	74.15	58.92
*	1070.000	480.00	.00	.00	2158.20	908.00	2162.02	2162.02	2163.36	92.98	9.31	100.79	94.16
*	1070.000	480.00	.00	.00	2158.20	1065.00	2162.35	2162.35	2163.80	87.28	9.72	114.88	114.00
*	1070.000	480.00	.00	.00	2158.20	1385.00	2162.95	2162.95	2164.61	79.87	10.47	142.62	154.97
*	1190.000	630.00	.00	.00	2171.60	604.00	2174.45	2174.45	2175.36	108.92	7.71	79.76	57.87
*	1190.000	630.00	.00	.00	2171.60	908.00	2175.03	2175.03	2176.20	97.50	8.75	106.95	91.96
*	1190.000	630.00	.00	.00	2171.60	1065.00	2175.30	2175.30	2176.59	93.71	9.20	119.97	110.01
*	1190.000	630.00	.00	.00	2171.60	1385.00	2175.80	2175.80	2177.32	87.87	10.00	145.22	147.75
*	1300.000	580.00	.00	.00	2181.70	604.00	2184.83	2184.83	2185.69	106.39	7.47	83.11	58.56
*	1300.000	580.00	.00	.00	2181.70	908.00	2185.41	2185.41	2186.45	96.54	8.31	114.69	92.41
*	1300.000	580.00	.00	.00	2181.70	1065.00	2185.65	2185.65	2186.80	94.89	8.72	129.18	109.33
*	1300.000	580.00	.00	.00	2181.70	1385.00	2186.11	2186.11	2187.43	87.98	9.42	158.48	147.66
*	1380.000	420.00	.00	.00	2192.70	604.00	2195.64	2195.64	2196.37	165.96	6.87	87.95	46.88
*	1380.000	420.00	.00	.00	2192.70	908.00	2196.13	2196.13	2197.00	157.53	7.49	121.30	72.35
*	1380.000	420.00	.00	.00	2192.70	1065.00	2196.34	2196.34	2197.29	153.07	7.81	136.45	86.08
*	1380.000	420.00	.00	.00	2192.70	1385.00	2196.72	2196.72	2197.80	145.69	8.34	166.05	114.75
*	1450.000	370.00	.00	.00	2201.00	604.00	2202.85	2202.85	2203.43	175.89	6.10	98.95	45.54
*	1450.000	370.00	.00	.00	2201.00	908.00	2203.24	2203.24	2203.94	163.73	6.70	135.50	70.96
*	1450.000	370.00	.00	.00	2201.00	1065.00	2203.42	2203.42	2204.17	160.18	6.96	153.06	84.15
*	1450.000	370.00	.00	.00	2201.00	1385.00	2203.73	2203.73	2204.58	154.11	7.39	187.47	111.57
*	1520.000	370.00	.00	.00	2204.90	604.00	2208.12	2208.12	2209.10	109.71	7.95	76.05	57.67
*	1520.000	370.00	.00	.00	2204.90	908.00	2208.81	2208.81	2209.96	86.78	8.68	110.10	97.47
*	1520.000	370.00	.00	.00	2204.90	1065.00	2209.13	2209.13	2210.34	79.25	8.95	129.35	119.63
*	1520.000	370.00	.00	.00	2204.90	1385.00	2209.74	2209.74	2210.99	65.91	9.26	173.09	170.60

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
*	1580.000	320.00	.00	.00	2210.20	358.00	2212.53	2212.53	2213.32	118.81	7.12	50.28	32.84
*	1580.000	320.00	.00	.00	2210.20	537.00	2213.06	2213.06	2214.01	114.41	7.84	68.53	50.20
*	1580.000	320.00	.00	.00	2210.20	629.00	2213.35	2213.35	2214.30	110.72	7.84	80.21	59.78
*	1580.000	320.00	.00	.00	2210.20	784.00	2213.70	2213.70	2214.74	108.80	8.19	95.67	75.16
*	1650.000	370.00	.00	.00	2219.50	358.00	2221.52	2221.52	2222.23	121.09	6.76	52.94	32.53
*	1650.000	370.00	.00	.00	2219.50	537.00	2222.00	2222.00	2222.86	112.62	7.44	72.19	50.60
*	1650.000	370.00	.00	.00	2219.50	629.00	2222.20	2222.20	2223.14	111.02	7.75	81.13	59.70
*	1650.000	370.00	.00	.00	2219.50	784.00	2222.53	2222.53	2223.57	107.20	8.16	96.04	75.72
*	1730.000	420.00	.00	.00	2227.10	358.00	2229.07	2229.07	2229.64	171.79	7.52	67.47	27.31
*	1730.000	420.00	.00	.00	2227.10	537.00	2229.44	2229.44	2230.16	176.31	8.56	89.06	40.44
*	1730.000	420.00	.00	.00	2227.10	629.00	2229.61	2229.61	2230.39	176.25	8.98	99.59	47.38
*	1730.000	420.00	.00	.00	2227.10	784.00	2229.87	2229.87	2230.75	174.96	9.58	116.65	59.27
*	1780.000	260.00	.00	.00	2230.90	358.00	2233.59	2233.59	2234.47	160.66	8.28	53.55	28.24
*	1780.000	260.00	.00	.00	2230.90	537.00	2234.20	2234.20	2235.26	146.60	9.24	74.93	44.35
*	1780.000	260.00	.00	.00	2230.90	629.00	2234.47	2234.47	2235.60	142.48	9.66	85.30	52.70
*	1780.000	260.00	.00	.00	2230.90	784.00	2234.88	2234.88	2236.12	137.11	10.26	102.25	66.95
*	1820.000	210.00	.00	.00	2240.00	358.00	2242.90	2242.90	2243.93	168.31	8.79	47.93	27.59
*	1820.000	210.00	.00	.00	2240.00	537.00	2243.59	2243.59	2244.85	152.33	9.86	66.63	43.51
*	1820.000	210.00	.00	.00	2240.00	629.00	2243.91	2243.91	2245.26	146.62	10.30	75.91	51.95
*	1820.000	210.00	.00	.00	2240.00	784.00	2244.39	2244.39	2245.89	139.76	10.95	91.00	66.32
*	1880.000	320.00	.00	.00	2249.00	358.00	2251.83	2251.83	2252.59	180.85	9.50	57.99	26.62
*	1880.000	320.00	.00	.00	2249.00	537.00	2252.32	2252.32	2253.27	184.60	10.74	76.48	39.52
*	1880.000	320.00	.00	.00	2249.00	629.00	2252.55	2252.55	2253.57	182.95	11.21	85.78	46.50
*	1880.000	320.00	.00	.00	2249.00	784.00	2252.90	2252.90	2254.04	180.89	11.91	100.69	58.29
	1960.000	420.00	.00	.00	2256.50	358.00	2258.85	.00	2259.47	148.38	7.89	63.55	29.39
	1960.000	420.00	.00	.00	2256.50	537.00	2259.34	.00	2260.10	143.76	8.83	84.03	44.79
	1960.000	420.00	.00	.00	2256.50	629.00	2259.56	.00	2260.40	144.55	9.29	93.21	52.32
	1960.000	420.00	.00	.00	2256.50	784.00	2259.88	.00	2260.84	144.95	9.97	107.95	65.12
*	2040.000	420.00	.00	.00	2268.20	358.00	2270.89	2270.89	2271.65	179.66	9.37	58.21	26.71
*	2040.000	420.00	.00	.00	2268.20	537.00	2271.39	2271.39	2272.34	180.75	10.58	77.08	39.94
*	2040.000	420.00	.00	.00	2268.20	629.00	2271.62	2271.62	2272.65	179.72	11.06	86.29	46.92
*	2040.000	420.00	.00	.00	2268.20	784.00	2271.98	2271.98	2273.13	177.71	11.77	101.18	58.81
*	2100.000	320.00	.00	.00	2277.90	358.00	2279.88	2279.88	2280.58	244.33	7.55	55.30	22.90
*	2100.000	320.00	.00	.00	2277.90	537.00	2280.34	2280.34	2281.20	218.52	8.53	75.36	36.33
*	2100.000	320.00	.00	.00	2277.90	629.00	2280.54	2280.54	2281.48	211.40	8.97	84.88	43.26
*	2100.000	320.00	.00	.00	2277.90	784.00	2280.86	2280.86	2281.91	200.77	9.59	100.54	55.33
*	2160.000	320.00	.00	.00	2284.40	358.00	2286.55	2286.55	2287.41	175.51	7.91	52.50	27.02
*	2160.000	320.00	.00	.00	2284.40	537.00	2287.18	2287.18	2288.17	147.61	8.67	74.20	44.20
*	2160.000	320.00	.00	.00	2284.40	629.00	2287.43	2287.43	2288.49	142.00	9.03	84.17	52.79
*	2160.000	320.00	.00	.00	2284.40	784.00	2287.83	2287.83	2288.98	132.86	9.51	101.77	68.02

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
*	2240.000	420.00	.00	.00	2295.20	358.00	2296.72	2296.72	2297.41	237.78	7.40	55.53	23.22
*	2240.000	420.00	.00	.00	2295.20	537.00	2297.16	2297.16	2298.05	217.31	8.42	73.83	36.43
*	2240.000	420.00	.00	.00	2295.20	629.00	2297.36	2297.36	2298.34	209.46	8.85	82.62	43.46
*	2240.000	420.00	.00	.00	2295.20	784.00	2297.68	2297.68	2298.80	200.48	9.50	96.51	55.37
*	2330.000	480.00	.00	.00	2308.30	358.00	2311.12	2311.12	2311.91	167.47	9.23	59.12	27.66
*	2330.000	480.00	.00	.00	2308.30	537.00	2311.66	2311.66	2312.62	166.85	10.42	80.91	41.57
*	2330.000	480.00	.00	.00	2308.30	629.00	2311.94	2311.94	2312.91	152.82	10.57	93.90	50.88
*	2330.000	480.00	.00	.00	2308.30	784.00	2312.29	2312.29	2313.34	149.16	11.12	111.11	64.19
*	2370.000	210.00	.00	.00	2314.50	358.00	2316.85	2316.85	2317.69	166.48	8.36	55.79	27.75
*	2370.000	210.00	.00	.00	2314.50	537.00	2317.47	2317.47	2318.41	142.29	9.05	79.12	45.02
*	2370.000	210.00	.00	.00	2314.50	629.00	2317.69	2317.69	2318.71	141.63	9.49	88.62	52.85
*	2370.000	210.00	.00	.00	2314.50	784.00	2318.05	2318.05	2319.18	138.90	10.10	104.57	66.52
*	2420.000	260.00	.00	.00	2323.60	358.00	2326.67	2326.67	2327.48	193.83	10.93	58.19	25.71
*	2420.000	260.00	.00	.00	2323.60	537.00	2327.19	2327.19	2328.18	195.39	12.18	76.36	38.42
*	2420.000	260.00	.00	.00	2323.60	629.00	2327.43	2327.43	2328.50	195.79	12.72	85.13	44.95
*	2420.000	260.00	.00	.00	2323.60	784.00	2327.80	2327.80	2328.99	194.45	13.48	99.61	56.22
*	2480.000	320.00	.00	.00	2332.90	358.00	2334.81	2334.81	2335.30	198.21	7.48	78.22	25.43
*	2480.000	320.00	.00	.00	2332.90	537.00	2335.14	2335.14	2335.72	192.82	8.30	105.31	38.67
*	2480.000	320.00	.00	.00	2332.90	629.00	2335.27	2335.27	2335.90	198.20	8.75	115.96	44.68
*	2480.000	320.00	.00	.00	2332.90	784.00	2335.47	2335.47	2336.19	203.07	9.40	133.04	55.02
*	2570.000	480.00	.00	.00	2341.80	358.00	2345.16	2345.16	2345.97	238.32	12.07	55.82	23.19
*	2570.000	480.00	.00	.00	2341.80	537.00	2345.71	2345.71	2346.67	232.91	13.25	75.81	35.19
*	2570.000	480.00	.00	.00	2341.80	629.00	2345.95	2345.95	2346.98	230.75	13.75	85.59	41.41
*	2570.000	480.00	.00	.00	2341.80	784.00	2346.32	2346.32	2347.44	227.35	14.48	101.54	52.00
*	2630.000	320.00	.00	.00	2351.10	358.00	2354.31	2354.31	2355.19	225.27	9.15	51.55	23.85
*	2630.000	320.00	.00	.00	2351.10	537.00	2354.92	2354.92	2355.94	197.26	10.06	72.30	38.23
*	2630.000	320.00	.00	.00	2351.10	629.00	2355.15	2355.15	2356.27	199.39	10.65	81.03	44.54
*	2630.000	320.00	.00	.00	2351.10	784.00	2355.55	2355.55	2356.76	189.95	11.27	97.55	56.88
*	2710.000	420.00	.00	.00	2363.20	358.00	2367.26	2367.26	2368.04	164.16	10.18	61.67	27.94
*	2710.000	420.00	.00	.00	2363.20	537.00	2367.77	2367.77	2368.71	172.18	11.47	83.09	40.92
*	2710.000	420.00	.00	.00	2363.20	629.00	2368.01	2368.01	2369.00	173.60	11.98	93.75	47.74
*	2710.000	420.00	.00	.00	2363.20	784.00	2368.36	2368.36	2369.44	174.78	12.70	111.14	59.30
*	2770.000	320.00	.00	.00	2373.10	358.00	2375.56	2375.56	2376.34	182.73	7.72	55.72	26.48
*	2770.000	320.00	.00	.00	2373.10	537.00	2376.07	2376.07	2377.03	169.48	8.70	75.72	41.25
*	2770.000	320.00	.00	.00	2373.10	629.00	2376.30	2376.30	2377.35	163.95	9.11	85.65	49.12
*	2770.000	320.00	.00	.00	2373.10	784.00	2376.66	2376.66	2377.83	158.66	9.74	101.39	62.24
*	2820.000	260.00	.00	.00	2379.70	163.00	2381.95	2381.95	2382.74	176.77	8.23	27.44	12.26
*	2820.000	260.00	.00	.00	2379.70	244.00	2382.49	2382.49	2383.43	164.82	9.21	38.26	19.01
*	2820.000	260.00	.00	.00	2379.70	286.00	2382.75	2382.75	2383.73	154.68	9.51	44.27	23.00
*	2820.000	260.00	.00	.00	2379.70	360.00	2383.21	2383.21	2384.20	134.98	9.78	57.22	30.99

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
*	2890.000	370.00	.00	.00	2391.90	163.00	2394.17	2394.17	2394.67	235.85	5.94	30.04	10.61
*	2890.000	370.00	.00	.00	2391.90	244.00	2394.51	2394.51	2395.11	235.95	6.48	41.46	15.88
*	2890.000	370.00	.00	.00	2391.90	286.00	2394.67	2394.67	2395.29	231.87	6.67	47.33	18.78
*	2890.000	370.00	.00	.00	2391.90	360.00	2394.93	2394.93	2395.59	218.63	6.86	58.03	24.35
*	2980.000	480.00	.00	.00	2403.20	163.00	2405.40	2405.40	2406.00	185.34	6.83	28.96	11.97
*	2980.000	480.00	.00	.00	2403.20	244.00	2405.76	2405.76	2406.54	189.05	7.91	37.78	17.75
*	2980.000	480.00	.00	.00	2403.20	286.00	2405.95	2405.95	2406.79	182.93	8.28	42.52	21.15
*	2980.000	480.00	.00	.00	2403.20	360.00	2406.25	2406.25	2407.20	174.92	8.84	50.45	27.22
*	3070.000	480.00	.00	.00	2420.20	163.00	2422.91	2422.91	2423.57	269.62	6.94	25.21	9.93
*	3070.000	480.00	.00	.00	2420.20	244.00	2423.36	2423.36	2424.14	253.93	7.53	34.84	15.31
*	3070.000	480.00	.00	.00	2420.20	286.00	2423.56	2423.56	2424.39	247.80	7.77	39.59	18.17
*	3070.000	480.00	.00	.00	2420.20	360.00	2423.87	2423.87	2424.78	239.49	8.14	47.62	23.26
*	3160.000	480.00	.00	.00	2438.60	163.00	2440.50	2440.50	2440.96	275.88	5.89	30.14	9.81
*	3160.000	480.00	.00	.00	2438.60	244.00	2440.83	2440.83	2441.35	250.47	6.24	42.50	15.42
*	3160.000	480.00	.00	.00	2438.60	286.00	2440.95	2440.95	2441.52	260.25	6.58	47.33	17.73
*	3160.000	480.00	.00	.00	2438.60	360.00	2441.17	2441.17	2441.79	243.87	7.05	57.41	23.05
*	3220.000	320.00	.00	.00	2450.20	163.00	2453.36	2453.36	2454.04	233.17	7.14	25.74	10.67
*	3220.000	320.00	.00	.00	2450.20	244.00	2453.83	2453.83	2454.63	227.05	7.79	35.42	16.19
*	3220.000	320.00	.00	.00	2450.20	286.00	2454.04	2454.04	2454.90	223.65	8.04	40.21	19.12
*	3220.000	320.00	.00	.00	2450.20	360.00	2454.37	2454.37	2455.30	219.30	8.43	48.28	24.31
*	3310.000	480.00	.00	.00	2474.40	163.00	2478.02	2478.02	2479.14	148.73	9.17	22.68	13.37
*	3310.000	480.00	.00	.00	2474.40	244.00	2478.77	2478.77	2480.13	139.19	10.32	31.66	20.68
*	3310.000	480.00	.00	.00	2474.40	286.00	2479.12	2479.12	2480.57	135.11	10.78	36.20	24.61
*	3310.000	480.00	.00	.00	2474.40	360.00	2479.66	2479.66	2481.27	130.11	11.50	43.92	31.56
*	3410.000	530.00	.00	.00	2493.40	163.00	2495.88	2495.88	2496.59	226.91	7.36	25.59	10.82
*	3410.000	530.00	.00	.00	2493.40	244.00	2496.36	2496.36	2497.21	196.48	8.21	36.09	17.41
*	3410.000	530.00	.00	.00	2493.40	286.00	2496.58	2496.58	2497.49	185.76	8.54	41.45	20.98
*	3410.000	530.00	.00	.00	2493.40	360.00	2496.93	2496.93	2497.91	170.68	9.03	50.84	27.56
	3460.000	260.00	.00	.00	2498.70	163.00	2500.92	.00	2501.45	155.29	6.72	30.25	13.08
	3460.000	260.00	.00	.00	2498.70	244.00	2501.26	2501.21	2501.99	171.50	7.97	38.74	18.63
	3460.000	260.00	.00	.00	2498.70	286.00	2501.41	2501.40	2502.24	179.77	8.55	42.65	21.33
*	3460.000	260.00	.00	.00	2498.70	360.00	2501.71	2501.71	2502.65	175.19	9.16	50.79	27.20
*	3520.000	320.00	.00	.00	2508.40	163.00	2510.45	2510.45	2510.93	273.01	6.18	29.77	9.86
*	3520.000	320.00	.00	.00	2508.40	244.00	2510.74	2510.74	2511.39	282.28	7.34	39.01	14.52
*	3520.000	320.00	.00	.00	2508.40	286.00	2510.90	2510.90	2511.60	265.56	7.70	44.62	17.55
*	3520.000	320.00	.00	.00	2508.40	360.00	2511.17	2511.17	2511.93	241.69	8.20	54.58	23.16
*	3560.000	210.00	.00	.00	2516.10	163.00	2518.56	2518.56	2519.21	240.79	6.84	25.71	10.50
*	3560.000	210.00	.00	.00	2516.10	244.00	2519.00	2519.00	2519.78	197.54	7.52	36.41	17.36
*	3560.000	210.00	.00	.00	2516.10	286.00	2519.20	2519.20	2520.02	184.76	7.82	41.99	21.04
*	3560.000	210.00	.00	.00	2516.10	360.00	2519.52	2519.52	2520.41	169.19	8.26	51.75	27.68

SPR. TRIB. 1 (WST

SUMMARY PRINTOUT TABLE 150

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	790.000	816.00	2096.52	.00	.00	-.00	97.29	.00
*	790.000	1226.00	2096.97	.45	.00	.01	107.96	.00
*	790.000	1438.00	2097.17	.21	.00	.00	112.87	.00
*	790.000	1822.00	2097.52	.35	.00	.00	121.16	.00
*	90.000	816.00	2107.16	.00	10.65	.00	169.15	530.00
*	90.000	1226.00	2107.49	.32	10.52	.00	188.52	530.00
*	90.000	1438.00	2107.64	.15	10.47	.00	197.80	530.00
*	90.000	1822.00	2107.87	.23	10.35	.00	212.18	530.00
*	170.000	816.00	2110.75	.00	3.58	.00	49.72	420.00
*	170.000	1226.00	2111.32	.57	3.83	.00	74.19	420.00
*	170.000	1438.00	2111.54	.23	3.90	.00	77.97	420.00
*	170.000	1822.00	2112.05	.51	4.18	.00	92.48	420.00
*	220.000	816.00	2112.44	.00	1.70	.00	53.02	260.00
	220.000	1226.00	2113.13	.68	1.81	.00	59.61	260.00
	220.000	1438.00	2113.47	.35	1.93	.00	63.56	260.00
	220.000	1822.00	2113.91	.44	1.86	.00	71.77	260.00
*	270.000	816.00	2116.99	.00	4.54	.00	148.23	260.00
*	270.000	1226.00	2117.52	.53	4.39	.00	150.81	260.00
*	270.000	1438.00	2117.71	.19	4.23	.00	151.72	260.00
*	270.000	1822.00	2118.02	.31	4.11	.00	153.23	260.00
*	350.000	816.00	2120.68	.00	3.69	.00	54.59	420.00
*	350.000	1226.00	2121.42	.73	3.90	.00	112.73	420.00
*	350.000	1438.00	2121.71	.29	4.00	.00	123.16	420.00
*	350.000	1822.00	2122.11	.40	4.09	.00	131.17	420.00
	420.000	816.00	2123.90	.00	3.22	.00	62.75	370.00
*	420.000	1226.00	2124.38	.48	2.97	.00	75.34	370.00
*	420.000	1438.00	2124.69	.31	2.99	.00	83.56	370.00
*	420.000	1822.00	2125.24	.55	3.13	.00	99.44	370.00
*	520.000	816.00	2130.58	.00	6.68	.00	116.24	530.00
*	520.000	1226.00	2131.10	.52	6.72	.00	175.83	530.00
*	520.000	1438.00	2131.28	.18	6.59	.00	177.35	530.00
*	520.000	1822.00	2131.57	.29	6.33	.00	179.75	530.00
*	630.000	816.00	2137.15	.00	6.57	.00	197.80	580.00
*	630.000	1226.00	2137.45	.30	6.35	.00	206.29	580.00
*	630.000	1438.00	2137.59	.14	6.31	.00	210.36	580.00
*	630.000	1822.00	2137.83	.24	6.25	.00	217.36	580.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	700.000	816.00	2140.34	.00	3.20	.00	76.87	370.00
	700.000	1226.00	2140.80	.46	3.35	.00	78.67	370.00
	700.000	1438.00	2140.99	.19	3.40	.00	79.77	370.00
	700.000	1822.00	2141.30	.31	3.48	.00	112.04	370.00
*	780.000	816.00	2144.88	.00	4.54	.00	74.56	420.00
*	780.000	1226.00	2145.49	.61	4.69	.00	80.16	420.00
*	780.000	1438.00	2145.76	.27	4.77	.00	82.63	420.00
*	780.000	1822.00	2146.21	.44	4.91	.00	86.69	420.00
	880.000	816.00	2149.28	.00	4.40	.00	41.77	530.00
	880.000	1226.00	2149.94	.66	4.45	.00	48.14	530.00
*	880.000	1438.00	2150.28	.34	4.52	.00	49.00	530.00
*	880.000	1822.00	2150.90	.61	4.69	.00	52.68	530.00
*	980.000	604.00	2156.10	.00	6.82	.00	42.97	530.00
*	980.000	908.00	2156.78	.67	6.84	.00	53.62	530.00
*	980.000	1065.00	2157.06	.29	6.78	.00	57.53	530.00
*	980.000	1385.00	2157.46	.40	6.57	.00	59.97	530.00
*	1070.000	604.00	2161.36	.00	5.25	.00	37.62	480.00
*	1070.000	908.00	2162.02	.67	5.25	.00	42.15	480.00
*	1070.000	1065.00	2162.35	.33	5.29	.00	44.35	480.00
*	1070.000	1385.00	2162.95	.60	5.48	.00	48.41	480.00
*	1190.000	604.00	2174.45	.00	13.09	.00	45.83	630.00
*	1190.000	908.00	2175.03	.58	13.00	.00	47.93	630.00
*	1190.000	1065.00	2175.30	.27	12.95	.00	48.91	630.00
*	1190.000	1385.00	2175.80	.51	12.86	.00	50.75	630.00
*	1300.000	604.00	2184.83	.00	10.39	.00	51.62	580.00
*	1300.000	908.00	2185.41	.57	10.38	.00	58.26	580.00
*	1300.000	1065.00	2185.65	.24	10.35	.00	61.04	580.00
*	1300.000	1385.00	2186.11	.46	10.31	.00	66.17	580.00
*	1380.000	604.00	2195.64	.00	10.81	.00	62.06	420.00
*	1380.000	908.00	2196.13	.49	10.73	.00	72.31	420.00
*	1380.000	1065.00	2196.34	.21	10.69	.00	74.75	420.00
*	1380.000	1385.00	2196.72	.38	10.61	.00	79.31	420.00
*	1450.000	604.00	2202.85	.00	7.21	.00	87.49	370.00
*	1450.000	908.00	2203.24	.39	7.11	.00	98.70	370.00
*	1450.000	1065.00	2203.42	.17	7.08	.00	103.65	370.00
*	1450.000	1385.00	2203.73	.32	7.01	.00	112.73	370.00
*	1520.000	604.00	2208.12	.00	5.27	.00	41.20	370.00
*	1520.000	908.00	2208.81	.69	5.57	.00	57.04	370.00
*	1520.000	1065.00	2209.13	.32	5.71	.00	64.29	370.00
*	1520.000	1385.00	2209.74	.61	6.01	.00	77.96	370.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	1580.000	358.00	2212.53	.00	4.42	.00	32.50	320.00
*	1580.000	537.00	2213.06	.52	4.25	.00	37.22	320.00
*	1580.000	629.00	2213.35	.29	4.22	.00	42.49	320.00
*	1580.000	784.00	2213.70	.35	3.96	.00	46.81	320.00
*	1650.000	358.00	2221.52	.00	8.99	.00	37.94	370.00
*	1650.000	537.00	2222.00	.48	8.94	.00	42.40	370.00
*	1650.000	629.00	2222.20	.21	8.85	.00	44.29	370.00
*	1650.000	784.00	2222.53	.33	8.83	.00	47.23	370.00
*	1730.000	358.00	2229.07	.00	7.55	.00	56.40	420.00
*	1730.000	537.00	2229.44	.37	7.44	.00	60.82	420.00
*	1730.000	629.00	2229.61	.17	7.40	.00	62.87	420.00
*	1730.000	784.00	2229.87	.26	7.34	.00	66.04	420.00
*	1780.000	358.00	2233.59	.00	4.51	.00	32.33	260.00
*	1780.000	537.00	2234.20	.61	4.76	.00	37.38	260.00
*	1780.000	629.00	2234.47	.27	4.86	.00	39.60	260.00
*	1780.000	784.00	2234.88	.41	5.00	.00	42.98	260.00
*	1820.000	358.00	2242.90	.00	9.31	.00	24.96	210.00
*	1820.000	537.00	2243.59	.70	9.40	.00	28.59	210.00
*	1820.000	629.00	2243.91	.32	9.44	.00	30.22	210.00
	1820.000	784.00	2244.39	.48	9.51	.00	32.71	210.00
*	1880.000	358.00	2251.83	.00	8.94	.00	36.32	320.00
*	1880.000	537.00	2252.32	.49	8.72	.00	39.81	320.00
*	1880.000	629.00	2252.55	.23	8.64	.00	41.45	320.00
*	1880.000	784.00	2252.90	.35	8.51	.00	43.96	320.00
	1960.000	358.00	2258.85	.00	7.02	.00	40.66	420.00
	1960.000	537.00	2259.34	.49	7.02	.00	43.10	420.00
	1960.000	629.00	2259.56	.22	7.01	.00	44.16	420.00
	1960.000	784.00	2259.88	.32	6.98	.00	45.80	420.00
*	2040.000	358.00	2270.89	.00	12.04	.00	36.15	420.00
*	2040.000	537.00	2271.39	.50	12.05	.00	39.44	420.00
*	2040.000	629.00	2271.62	.23	12.06	.00	40.96	420.00
*	2040.000	784.00	2271.98	.35	12.10	.00	43.29	420.00
*	2100.000	358.00	2279.88	.00	8.99	.00	42.06	320.00
*	2100.000	537.00	2280.34	.46	8.94	.00	46.00	320.00
*	2100.000	629.00	2280.54	.20	8.92	.00	47.76	320.00
*	2100.000	784.00	2280.86	.32	8.88	.00	50.53	320.00
*	2160.000	358.00	2286.55	.00	6.67	.00	32.71	320.00
*	2160.000	537.00	2287.18	.62	6.84	.00	37.56	320.00
*	2160.000	629.00	2287.43	.25	6.89	.00	41.22	320.00
*	2160.000	784.00	2287.83	.40	6.97	.00	46.98	320.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	2240.000	358.00	2296.72	.00	10.17	.00	41.05	420.00
*	2240.000	537.00	2297.16	.44	9.98	.00	42.66	420.00
*	2240.000	629.00	2297.36	.20	9.93	.00	43.41	420.00
*	2240.000	784.00	2297.68	.32	9.85	.00	44.57	420.00
*	2330.000	358.00	2311.12	.00	14.40	.00	37.23	480.00
*	2330.000	537.00	2311.66	.54	14.50	.00	43.36	480.00
*	2330.000	629.00	2311.94	.29	14.58	.00	46.95	480.00
*	2330.000	784.00	2312.29	.35	14.62	.00	51.68	480.00
*	2370.000	358.00	2316.85	.00	5.74	.00	35.08	210.00
*	2370.000	537.00	2317.47	.61	5.81	.00	40.89	210.00
*	2370.000	629.00	2317.69	.23	5.75	.00	43.03	210.00
*	2370.000	784.00	2318.05	.36	5.76	.00	46.41	210.00
*	2420.000	358.00	2326.67	.00	9.82	.00	33.09	260.00
*	2420.000	537.00	2327.19	.52	9.73	.00	36.59	260.00
*	2420.000	629.00	2327.43	.23	9.74	.00	38.17	260.00
*	2420.000	784.00	2327.80	.37	9.75	.00	40.63	260.00
*	2480.000	358.00	2334.81	.00	8.14	.00	78.43	320.00
*	2480.000	537.00	2335.14	.33	7.95	.00	84.12	320.00
*	2480.000	629.00	2335.27	.13	7.84	.00	84.67	320.00
*	480.000	784.00	2335.47	.20	7.67	.00	85.56	320.00
*	2570.000	358.00	2345.16	.00	10.35	.00	33.62	480.00
*	2570.000	537.00	2345.71	.55	10.57	.00	39.16	480.00
*	2570.000	629.00	2345.95	.24	10.69	.00	41.60	480.00
*	2570.000	784.00	2346.32	.37	10.85	.00	45.30	480.00
*	2630.000	358.00	2354.31	.00	9.15	.00	30.73	320.00
*	2630.000	537.00	2354.92	.61	9.21	.00	37.11	320.00
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*	2630.000	784.00	2355.55	.40	9.23	.00	43.63	320.00
*	2710.000	358.00	2367.26	.00	12.94	.00	38.09	420.00
*	2710.000	537.00	2367.77	.52	12.85	.00	44.44	420.00
*	2710.000	629.00	2368.01	.23	12.85	.00	47.29	420.00
*	2710.000	784.00	2368.36	.35	12.81	.00	51.59	420.00
*	2770.000	358.00	2375.56	.00	8.30	.00	37.23	320.00
*	2770.000	537.00	2376.07	.51	8.29	.00	41.25	320.00
*	2770.000	629.00	2376.30	.24	8.30	.00	43.11	320.00
*	2770.000	784.00	2376.66	.35	8.30	.00	45.90	320.00
*	2820.000	163.00	2381.95	.00	6.39	.00	18.73	260.00
*	2820.000	244.00	2382.49	.54	6.42	.00	21.71	260.00
*	2820.000	286.00	2382.75	.27	6.45	.00	23.20	260.00
*	2820.000	360.00	2383.21	.46	6.56	.00	36.72	260.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	2890.000	163.00	2394.17	.00	12.22	.00	30.24	370.00
*	2890.000	244.00	2394.51	.34	12.03	.00	36.36	370.00
*	2890.000	286.00	2394.67	.16	11.91	.00	39.13	370.00
*	2890.000	360.00	2394.93	.26	11.71	.00	43.73	370.00
*	2980.000	163.00	2405.40	.00	11.23	.00	23.85	480.00
*	2980.000	244.00	2405.76	.36	11.25	.00	25.09	480.00
*	2980.000	286.00	2405.95	.19	11.28	.00	25.74	480.00
*	2980.000	360.00	2406.25	.30	11.32	.00	26.78	480.00
*	3070.000	163.00	2422.91	.00	17.51	.00	19.59	480.00
*	3070.000	244.00	2423.36	.45	17.60	.00	23.04	480.00
*	3070.000	286.00	2423.56	.20	17.61	.00	24.57	480.00
*	3070.000	360.00	2423.87	.31	17.62	.00	26.95	480.00
*	3160.000	163.00	2440.50	.00	17.59	.00	33.79	480.00
*	3160.000	244.00	2440.83	.33	17.47	.00	41.03	480.00
*	3160.000	286.00	2440.95	.11	17.39	.00	43.54	480.00
*	3160.000	360.00	2441.17	.22	17.30	.00	47.74	480.00
*	3220.000	163.00	2453.36	.00	12.86	.00	18.71	320.00
*	3220.000	244.00	2453.83	.47	13.00	.00	22.05	320.00
*	3220.000	286.00	2454.04	.21	13.10	.00	23.53	320.00
	?20.000	360.00	2454.37	.33	13.20	.00	25.83	320.00
*	3310.000	163.00	2478.02	.00	24.66	.00	10.97	480.00
*	3310.000	244.00	2478.77	.76	24.94	.00	12.76	480.00
*	3310.000	286.00	2479.12	.34	25.08	.00	13.58	480.00
*	3310.000	360.00	2479.66	.54	25.29	.00	14.87	480.00
*	3410.000	163.00	2495.88	.00	17.87	.00	20.24	530.00
*	3410.000	244.00	2496.36	.48	17.59	.00	23.83	530.00
*	3410.000	286.00	2496.58	.22	17.46	.00	25.47	530.00
*	3410.000	360.00	2496.93	.35	17.27	.00	28.11	530.00
	3460.000	163.00	2500.92	.00	5.03	.00	23.09	260.00
	3460.000	244.00	2501.26	.34	4.90	.00	25.38	260.00
	3460.000	286.00	2501.41	.15	4.83	.00	26.37	260.00
*	3460.000	360.00	2501.71	.30	4.78	.00	28.31	260.00
*	3520.000	163.00	2510.45	.00	9.53	.00	29.09	320.00
*	3520.000	244.00	2510.74	.30	9.48	.00	33.53	320.00
*	3520.000	286.00	2510.90	.16	9.49	.00	35.98	320.00
*	3520.000	360.00	2511.17	.26	9.46	.00	39.97	320.00
*	3560.000	163.00	2518.56	.00	8.11	.00	21.44	210.00
*	3560.000	244.00	2519.00	.44	8.26	.00	26.82	210.00
*	3560.000	286.00	2519.20	.20	8.30	.00	29.23	210.00
*	3560.000	360.00	2519.52	.31	8.35	.00	33.03	210.00

SUMMARY OF ERRORS AND SPECIAL NOTES

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 *  VERSION OF SEPTEMBER 1988                        *
 *  ERROR: 01,02,03                                  *
 *  UPDATED:  SEPTEMBER 1989                         *
 *  RUN DATE     3/14/90   TIME   16:36: 8           *
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*************************************
*  U.S. ARMY CORPS OF ENGINEERS     *
*  THE HYDROLOGIC ENGINEERING CENTER *
*  609 SECOND STREET, SUITE D       *
*  DAVIS, CALIFORNIA 95616-4687     *
*          (916) 756-1104           *
*************************************
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END OF BANNER

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3/14/90 16:36: 8 PAGE 1

THIS RUN EXECUTED 3/14/90 16:36: 8

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*************************************************
HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989


  ERROR CORR -  01,02,03
  MODIFICATION -
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T1 FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LA027815.H2
T2 100-YEAR FLOOD FREQUENCY MODEL (NATURAL CONDITIONS)
T3 WILLOW SPR. TRIB. 1 (WST1.MCE)

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
		2			.015				2097.17	

J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	1		-1							

J3 VARIABLE CODES FOR SUMMARY PRINTOUT

38	43	26	8	42	39	1	34	4	53
21	22	54	0	38	43	1	50	51	27
21	22	28	5	3	61	200			

J5 LPRNT NUMSEC ********REQUESTED SECTION NUMBERS********

-10 -10

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QT       2      1438      1438
NC     .05       .05       .03        .1        .3
                          9.1                                                    9960.0    10045.0
       THIS ENCROACHMENT MODEL IS BASED ON 100-YEAR NATURAL CONDITIONS.
       REFER TO FILE WST1.OUT (CH2M HILL, 1990)

X1     790         8    9960.0   10045.0
GR  2124.0    9830.0    2100.0    9880.0    2096.0    9960.0    2095.0    9970.0    2095.0   10040.0
GR  2096.0   10045.0    2100.0   10060.0    2120.0   10080.0

ET                        9.1                                                    9942.0    10026.1
X1      90        22    9931.1   10026.1       300       550       530
GR  2122.8    9593.2    2119.5    9626.2    2117.9    9670.8    2115.8    9703.5    2115.0    9724.8
GR  2113.9    9733.0    2109.5    9774.9    2107.0    9813.7    2105.4    9851.1    2105.9    9878.5
GR  2107.6    9901.9    2109.5    9931.1    2107.0    9955.2    2106.6    9968.0    2105.9   10000.0
GR  2106.6   10026.1    2108.8   10072.5    2111.1   10115.5    2114.3   10161.6    2116.7   10199.3
GR  2121.7   10239.2    2123.8   10252.8
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ET                        9.1                                                    9961.8    10012.3
X1     170        17    9961.8   10012.3       450       340       420
GR  2123.7    9851.9    2118.5    9886.9    2118.7    9923.7    2118.5    9947.6    2115.4    9951.7
GR  2115.4    9961.8    2110.8    9975.1    2107.2    9985.9    2107.2   10000.0    2107.3   10012.3
GR  2110.6   10019.2    2111.4   10050.8    2111.9   10051.2    2112.2   10076.7    2119.2   10101.4
GR  2127.2   10134.7    2127.1   10142.7

                          9.1                                                    9970.1    10026.1
X1     220        19    9970.1   10026.1       270       180       260
GR  2127.1    9915.1    2124.3    9933.2    2115.0    9955.8    2112.2    9970.1    2110.6    9976.7
GR  2109.8    9989.7    2109.6    9998.6    2109.6   10000.0    2111.1   10015.9    2113.4   10026.1
GR  2114.7   10044.4    2115.5   10071.0    2115.9   10100.6    2119.3   10129.8    2121.6   10145.1
GR  2121.6   10181.0    2122.4   10211.2    2124.1   10240.7    2127.4   10258.5

ET                        9.1                                                    9976.1    10014.0
X1     270        15    9976.2   10014.0       240       310       260
GR  2130.0    9800.9    2128.8    9835.3    2126.4    9866.1    2116.9    9893.2    2116.7    9933.5
GR  2116.5    9959.8    2115.4    9976.2    2113.8    9983.0    2113.5    9997.1    2114.1   10000.0
GR  2115.7   10014.0    2116.3   10021.5    2116.9   10041.0    2129.0   10065.3    2138.1   10077.8

ET                        9.1                                                    9963.2    10019.0
X1     350        18    9963.2   10023.7       360       470       420
GR  2134.9    9562.0    2134.0    9610.1    2134.5    9651.9    2133.4    9695.6    2132.4    9740.2
GR  2130.9    9764.9    2125.8    9810.5    2124.1    9853.4    2121.7    9896.9    2120.8    9927.6
GR  2120.7    9958.3    2120.7    9963.2    2117.9    9988.3    2117.7   10000.0    2119.3   10015.3
GR  2123.7   10023.7    2141.6   10055.2    2145.7   10059.9

ET                        9.1                                                    9986.1    10026.9
X1     420        17    9986.1   10026.9       310       410       370
GR  2139.2    9587.5    2136.5    9635.7    2135.4    9690.4    2132.0    9715.3    2131.0    9716.6
GR  2127.7    9783.4    2126.8    9842.0    2125.7    9902.5    2125.2    9932.8    2123.9    9965.2
GR  2122.0    9986.1    2120.8   10000.0    2120.8   10014.8    2123.2   10026.9    2128.5   10034.2
    2138.6   10055.4    2144.2   10069.0

ET                        9.1                                                    9980.8    10087.6
X1     520        27    9980.8   10026.0       520       510       530
GR  2152.7    9931.7    2145.6    9951.4    2132.0    9979.9    2130.1    9980.8    2128.7    9993.0
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GR	2128.7	10000.0	2128.2	10015.1	2130.3	10026.0	2130.9	10028.6	2131.0	10055.8
GR	2130.5	10087.8	2130.0	10112.0	2128.2	10122.3	2128.7	10126.9	2128.7	10133.6
GR	2129.9	10146.8	2132.5	10167.1	2134.1	10193.0	2134.1	10222.7	2132.9	10253.0
	2132.0	10268.2	2132.0	10277.2	2132.5	10293.9	2136.1	10323.1	2139.5	10348.4
	2141.5	10373.8	2141.9	10397.8						
ET			9.1						9968.6	10042.9
X1	630	21	9968.6	10021.3	640	420	580			
GR	2160.3	9871.4	2146.1	9900.1	2138.1	9926.0	2137.5	9937.9	2137.0	9947.3
GR	2136.5	9968.6	2135.5	9973.1	2135.1	9988.6	2134.0	9999.5	2135.3	10000.0
GR	2136.8	10021.3	2135.9	10029.7	2136.5	10067.5	2136.6	10102.9	2136.7	10120.2
GR	2135.4	10127.8	2137.3	10143.6	2140.6	10176.2	2144.7	10218.8	2145.8	10259.1
GR	2146.3	10268.0								

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ET			9.1						9959.0	10034.9
NC	.05	.05	.035							
X1	700	26	9959.0	10034.9	340	360	370			
GR	2160.3	9759.8	2157.4	9784.8	2149.2	9819.1	2147.5	9851.5	2147.5	9879.6
GR	2148.2	9907.7	2148.9	9926.8	2146.7	9937.7	2141.9	9956.3	2140.1	9959.0
GR	2138.9	9975.1	2137.4	9983.9	2136.4	9995.2	2136.7	10000.0	2139.1	10014.7
GR	2140.1	10034.9	2141.0	10037.1	2141.3	10069.2	2144.0	10092.7	2149.8	10132.7
GR	2151.0	10165.5	2151.2	10203.3	2152.1	10218.3	2152.4	10284.9	2157.8	10333.0
GR	2159.6	10359.6								
ET			9.1						9978.4	10014.1
	780	21	9978.4	10014.1	500	420	420			
	2159.6	9747.6	2156.7	9819.5	2153.1	9859.7	2155.5	9879.7	2154.6	9899.0
GR	2150.8	9913.4	2146.3	9933.9	2144.4	9946.5	2144.1	9959.7	2144.1	9978.4
GR	2141.8	9986.4	2141.4	9999.4	2141.5	10000.0	2143.4	10014.1	2147.9	10025.5
GR	2152.7	10046.6	2154.0	10090.4	2155.0	10127.6	2156.5	10155.1	2154.9	10166.9
GR	2158.9	10179.6								
ET			9.1						9984.5	10021.4
NC	.05	.05	.03							
X1	880	16	9984.5	10021.4	500	490	530			
GR	2162.6	9738.5	2161.9	9806.8	2160.4	9865.7	2159.1	9907.7	2157.0	9940.5
GR	2153.2	9958.4	2150.2	9973.4	2149.9	9973.5	2148.6	9984.5	2146.1	9995.4
GR	2145.3	10000.0	2145.6	10011.9	2149.7	10021.4	2153.0	10024.7	2168.3	10058.3
GR	2170.6	10060.9								
QT	2	1065	1065							
ET			9.1						9983.8	10041.0
X1	980	19	9977.8	10041.0	500	540	530			
GR	2172.4	9937.5	2169.7	9952.2	2161.4	9976.6	2159.6	9977.8	2153.2	9992.7
GR	2152.4	9999.1	2152.5	10000.0	2153.7	10006.1	2155.7	10023.5	2157.0	10041.0
GR	2162.0	10059.9	2165.7	10070.5	2167.2	10094.9	2167.1	10112.7	2165.9	10130.1
GR	2167.6	10169.1	2168.9	10207.3	2170.6	10256.3	2170.7	10287.3		
ET			9.1						9978.0	10013.0
X1	1070	15	9978.0	10013.0	500	420	480			
GR	2179.4	9919.4	2175.0	9938.8	2165.1	9962.0	2163.9	9965.0	2161.2	9978.0
	2158.4	9991.9	2158.2	9998.9	2158.2	10000.0	2160.4	10013.0	2163.0	10018.1
GR	2165.3	10033.1	2173.9	10060.0	2174.8	10101.0	2174.0	10156.0	2174.0	10170.3
ET			9.1						9980.2	10022.3
NC	.04	.04	.03							

X1	1190	18	9980.2	10022.3	650	640	630			
GR	2186.9	9841.8	2184.2	9909.8	2184.8	9943.9	2183.6	9961.1	2173.7	9980.2
GR	2172.9	9980.9	2171.6	9995.7	2172.7	10000.0	2173.1	10022.3	2177.1	10029.1
	2178.6	10055.0	2180.5	10083.6	2184.7	10117.9	2186.3	10134.7	2186.0	10149.8
	2185.9	10160.4	2185.5	10210.7	2185.5	10244.1				

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ET			9.1						9974.9	10022.8
X1	1300	23	9974.9	10022.8	540	560	580			
GR	2200.0	9547.9	2197.4	9566.1	2197.7	9597.2	2197.4	9639.8	2196.8	9694.7
GR	2195.3	9741.1	2194.2	9762.2	2193.4	9823.2	2191.6	9857.3	2192.0	9888.9
GR	2190.7	9926.5	2189.4	9957.1	2186.7	9970.8	2185.6	9974.9	2181.7	9991.1
GR	2182.9	10000.0	2183.4	10020.0	2183.9	10022.8	2188.4	10056.1	2193.8	10088.7
GR	2197.6	10122.3	2200.6	10155.4	2201.1	10157.1				
NC	.04	.04	.035							
ET			9.1						9949.8	10024.5
X1	1380	31	9926.5	10032.2	460	460	420			
GR	2211.4	9558.0	2209.3	9622.2	2205.6	9682.8	2204.5	9720.8	2203.0	9734.6
GR	2203.7	9738.8	2203.9	9749.2	2203.8	9759.3	2202.8	9763.1	2203.0	9776.6
GR	2200.5	9835.0	2199.4	9875.6	2198.1	9884.2	2199.7	9899.4	2199.1	9926.5
GR	2198.3	9938.4	2197.3	9941.8	2196.0	9952.6	2194.6	9981.5	2193.8	9993.9
GR	2192.7	10000.0	2193.6	10014.8	2198.5	10032.2	2200.4	10040.7	2202.0	10056.4
GR	2204.0	10094.8	2206.1	10139.3	2209.4	10188.7	2211.7	10219.4	2214.0	10285.0
GR	2213.5	10305.8								
			9.1						9950.9	10054.5
	1450	26	9946.8	10069.3	320	360	370			
GR	2222.6	9545.2	2222.5	9600.1	2219.2	9649.6	2216.2	9692.1	2215.6	9728.7
GR	2213.1	9779.7	2210.1	9830.6	2208.0	9874.7	2206.7	9893.8	2205.4	9923.1
GR	2204.0	9946.8	2201.7	9962.8	2201.9	9966.2	2201.3	9996.8	2201.0	10000.0
GR	2201.2	10016.8	2202.2	10028.3	2204.1	10069.3	2208.0	10115.7	2211.0	10166.3
GR	2212.1	10221.3	2215.2	10290.3	2218.0	10347.3	2218.8	10404.4	2219.7	10455.2
GR	2221.4	10475.1								
NC	.04	.04	.03							
ET			9.1						9986.9	10026.2
X1	1520	25	9986.9	10026.2	350	320	370			
GR	2222.7	9838.8	2219.2	9892.9	2215.4	9932.7	2210.6	9962.1	2210.8	9966.2
GR	2208.1	9986.9	2206.7	9995.2	2204.9	10000.0	2205.1	10011.5	2208.0	10026.2
GR	2209.7	10052.0	2211.9	10066.8	2211.0	10074.7	2213.7	10088.2	2213.0	10126.5
GR	2213.0	10137.2	2213.5	10163.6	2213.6	10199.0	2214.0	10240.2	2215.3	10284.3
GR	2217.2	10337.3	2217.9	10386.5	2221.3	10431.9	2221.8	10476.8	2222.3	10489.1
QT	2	629	629							
ET			9.1						9983.3	10025.8
X1	1580	22	9978.8	10048.0	370	330	320			
GR	2224.9	9811.1	2224.4	9875.7	2222.6	9928.6	2220.1	9958.1	2216.1	9978.8
GR	2210.7	9987.7	2210.2	9992.6	2210.2	10000.0	2213.2	10022.1	2213.2	10024.2
GR	2215.4	10048.0	2215.4	10073.8	2216.2	10097.2	2217.6	10105.4	2219.0	10136.8
GR	2220.1	10175.6	2221.2	10221.6	2221.9	10268.3	2224.3	10318.4	2227.4	10371.1
GR	2229.7	10420.5	2229.7	10420.6						
NC	.035	.035	.03							
ET			9.1						9977.2	10021.5
X1	1650	24	9969.9	10029.4	370	370	370			
GR	2241.8	9646.6	2238.5	9698.5	2230.7	9743.1	2227.9	9774.2	2226.0	9792.9

GR	2226.8	9821.1	2226.8	9860.7	2227.6	9894.9	2227.9	9924.4	2227.5	9945.8
GR	2225.3	9964.5	2223.6	9969.9	2220.6	9985.6	2219.6	9997.4	2219.6	10000.0
GR	2219.5	10010.5	2222.1	10021.1	2224.3	10029.4	2226.6	10058.2	2230.3	10084.8

GR	2231.1	10125.0	2231.2	10163.9	2234.2	10220.5	2235.0	10261.8		
ET			9.1						9985.6	10012.5
NC	.05	.05	.04							
X1	1730	17	10000.0	10012.5	410	430	420			
GR	2248.0	9665.0	2246.8	9684.8	2242.4	9713.9	2238.9	9753.5	2237.3	9810.3
GR	2236.1	9861.7	2234.1	9904.9	2231.4	9917.6	2231.3	9942.5	2228.2	9970.0
GR	2228.0	9990.2	2227.2	10000.0	2227.2	10000.5	2227.1	10012.5	2235.4	10038.5
GR	2241.8	10079.0	2246.2	10104.6						
ET			9.1						9985.3	10003.5
X1	1780	12	9985.5	10000.0	260	260	260			
GR	2251.1	9838.6	2251.1	9839.1	2248.1	9885.6	2243.2	9918.7	2240.4	9956.5
GR	2238.7	9969.0	2230.9	9985.5	2231.6	10000.0	2235.8	10025.7	2239.1	10052.4
GR	2242.6	10070.8	2251.3	10093.6						
ET			9.1						9994.3	10009.3
X1	1820	12	9994.3	10007.5	220	200	210			
GR	2264.5	9949.4	2264.5	9949.6	2251.6	9973.9	2241.6	9994.3	2240.1	10000.0
GR	2240.0	10007.5	2247.4	10030.8	2249.9	10053.0	2249.9	10076.9	2252.2	10098.5
GR	2256.6	10128.3	2259.2	10139.6						
			9.1						9994.0	10015.8
X	1880	12	9995.3	10000.1	320	320	320			
GR	2266.8	9939.3	2266.8	9939.4	2261.3	9959.6	2254.8	9978.4	2249.0	9995.3
GR	2249.4	10000.0	2249.4	10000.1	2251.0	10019.8	2255.8	10040.3	2258.3	10073.2
GR	2261.9	10092.6	2269.1	10109.2						
ET			9.1						9988.2	10011.8
X1	1960	12	9991.2	10000.0	420	420	420			
GR	2274.6	9896.9	2274.7	9897.0	2271.8	9923.6	2267.6	9952.7	2258.6	9979.9
GR	2256.6	9991.2	2256.5	10000.0	2256.5	10000.1	2258.1	10018.3	2265.1	10032.2
GR	2275.6	10057.6	2277.8	10064.0						
ET			9.1						9991.0	10012.0
X1	2040	11	9995.1	10000.5	440	400	420			
GR	2288.4	9909.1	2283.6	9929.5	2279.2	9952.5	2272.8	9973.1	2268.2	9995.1
GR	2268.4	10000.0	2268.4	10000.5	2270.2	10017.1	2281.9	10038.4	2285.2	10053.5
GR	2291.3	10082.7								
ET			9.1						9985.7	10009.9
X1	2100	13	9985.7	10000.1	300	340	320			
GR	2296.6	9909.2	2296.6	9909.6	2292.3	9931.2	2289.3	9955.0	2278.9	9985.7
GR	2277.9	10000.0	2277.9	10000.1	2278.7	10018.1	2283.6	10046.1	2289.1	10066.2
GR	2291.4	10082.9	2292.2	10109.5	2298.7	10119.8				
ET			9.1						9992.1	10010.8
X1	2160	13	9992.1	10010.8	340	300	320			
	2303.0	9891.9	2303.0	9892.3	2294.3	9927.0	2289.1	9954.2	2287.1	9979.0
GR	2284.4	9992.1	2284.4	10000.0	2284.4	10000.1	2284.8	10010.8	2293.7	10028.9
GR	2296.7	10054.4	2301.6	10084.2	2305.1	10099.2				

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			9.1						10000.0	10025.4
	2240	14	10000.0	10019.1	420	420	420			
GR	2312.8	9891.2	2312.8	9891.3	2308.2	9912.5	2304.0	9938.6	2299.1	9960.3
GR	2297.9	9977.6	2298.7	9993.3	2295.3	10000.0	2295.3	10000.6	2295.2	10019.1
GR	2295.4	10036.0	2301.5	10046.4	2312.6	10066.7	2315.9	10085.1		
ET			9.1						9984.4	10004.2
X1	2330	21	9993.3	10000.1	480	480	480			
GR	2332.1	9802.3	2332.1	9802.9	2327.8	9835.6	2320.1	9861.5	2317.9	9892.9
GR	2317.3	9905.5	2315.5	9938.5	2311.8	9970.7	2308.3	9993.3	2308.6	10000.0
GR	2308.6	10000.1	2313.2	10022.5	2315.9	10036.3	2314.6	10056.6	2312.6	10077.1
GR	2313.7	10089.3	2312.3	10095.9	2314.5	10113.2	2318.6	10142.9	2324.1	10153.4
GR	2331.4	10180.7								
ET			9.1						9987.6	10006.1
X1	2370	19	9987.6	10000.6	210	210	210			
GR	2335.9	9916.2	2335.9	9916.8	2327.4	9944.7	2321.5	9961.3	2320.1	9980.9
GR	2314.6	9987.6	2314.5	10000.0	2314.5	10000.6	2317.2	10022.8	2320.0	10045.9
GR	2321.6	10070.5	2322.9	10099.9	2324.0	10120.0	2325.0	10145.5	2326.5	10167.4
GR	2329.5	10197.5	2330.7	10218.7	2335.2	10240.8	2338.1	10252.2		
ET			9.1						9994.6	10014.2
NC	.055	.055	.04							
X1	2420	16	9999.3	10002.0	240	280	260			
GR	2345.4	9936.4	2340.2	9952.1	2338.0	9956.1	2338.0	9956.1	2334.8	9981.7
GR	2325.7	9991.2	2323.6	9999.3	2323.6	10000.0	2323.6	10002.0	2326.5	10022.3
	2329.8	10041.0	2333.5	10052.9	2335.3	10074.2	2338.4	10100.2	2338.5	10109.7
	2338.9	10121.0								
ET			9.1						9975.3	10012.3
X1	2480	17	10000.0	10012.3	340	300	320			
GR	2351.9	9806.6	2352.0	9806.8	2348.0	9827.4	2338.1	9856.3	2336.1	9879.4
GR	2337.2	9902.8	2337.7	9923.2	2333.6	9935.4	2335.0	9953.9	2333.0	9972.2
GR	2334.6	9988.4	2332.9	10000.0	2333.3	10012.3	2345.1	10029.2	2350.4	10043.9
GR	2350.8	10061.9	2351.3	10064.8						
ET			9.1						9992.9	10011.9
X1	2570	15	9998.9	10000.3	490	470	480			
GR	2358.9	9895.2	2358.9	9895.5	2358.2	9918.8	2356.2	9943.0	2352.5	9962.1
GR	2347.0	9975.4	2342.2	9998.9	2341.8	10000.0	2341.8	10000.3	2344.6	10015.1
GR	2349.4	10040.0	2353.2	10058.3	2358.8	10073.7	2362.1	10092.3	2363.0	10092.4
ET			9.1						9994.0	10011.0
X1	2630	18	9994.0	10001.7	310	330	320			
GR	2377.6	9917.8	2377.6	9918.4	2375.4	9940.9	2371.7	9950.0	2371.7	9950.5
GR	2369.3	9972.3	2360.4	9984.3	2353.6	9994.0	2351.1	10000.0	2351.1	10001.7
GR	2353.9	10020.0	2356.0	10038.9	2357.6	10061.8	2360.0	10077.6	2364.0	10088.6
GR	2368.5	10105.2	2372.5	10124.7	2374.8	10130.0				

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ET			9.1						9996.0	10018.2
X1	2710	11	9996.4	10000.0	400	440	420			
GR	2383.9	9923.3	2380.6	9952.0	2376.8	9971.7	2374.5	9981.5	2363.2	9996.4
GR	2364.6	10000.0	2366.3	10018.7	2368.9	10047.1	2376.4	10082.2	2383.4	10099.7

GR	2387.4	10109.9								
ET			9.1						9981.1	10001.7
[illegible]	2770	14	9981.1	10000.0	340	300	320			
[illegible]	2387.4	9922.1	2395.8	9927.2	2386.8	9945.1	2377.9	9964.3	2374.2	9981.1
GR	2373.1	10000.0	2375.3	10011.3	2381.4	10031.7	2382.0	10055.2	2386.1	10081.8
GR	2388.4	10108.8	2390.4	10122.2	2395.0	10152.2	2394.5	10156.2		
ET			9.1						9993.7	10002.9
QT	2	286	286							
X1	2820	12	9993.7	10000.0	250	270	260			
GR	2404.6	9903.5	2400.5	9923.1	2398.5	9948.1	2394.9	9970.0	2391.8	9987.9
GR	2379.9	9993.7	2379.7	10000.0	2383.5	10019.3	2382.9	10038.7	2391.7	10062.7
GR	2399.0	10081.3	2404.3	10099.0						
ET			9.1						9997.2	10033.1
X1	2890	11	9997.2	10033.1	350	390	370			
GR	2419.5	9950.0	2410.6	9977.1	2398.5	9988.6	2391.9	9997.2	2392.0	10000.0
GR	2395.3	10020.4	2393.1	10033.1	2398.3	10056.9	2403.6	10075.2	2411.1	10095.7
GR	2418.8	10109.1								
ET			9.1						9989.0	10000.4
NC	.05	.05	.04							
X1	2980	11	9989.0	10000.4	500	460	480			
GR	2446.7	9921.9	2432.1	9949.2	2418.3	9974.6	2408.9	9981.3	2403.2	9989.0
GR	2404.4	10000.0	2404.4	10000.4	2404.6	10008.2	2414.8	10029.6	2426.3	10053.0
GR	2427.4	10061.0								
ET			9.1						9999.6	10014.0
[illegible]	3070	10	9999.6	10018.9	470	490	480			
[illegible]	2447.0	9944.7	2435.3	9966.5	2425.3	9986.0	2420.2	9999.6	2420.5	10000.0
GR	2424.3	10018.9	2431.8	10031.4	2438.8	10055.2	2443.6	10076.1	2443.6	10077.2
ET			9.1						9994.4	10010.0
X1	3160	10	10000.0	10012.2	470	490	480			
GR	2459.9	9884.7	2459.9	9884.8	2454.3	9912.9	2446.2	9938.9	2441.2	9964.1
GR	2440.0	9984.3	2438.6	10000.0	2441.0	10012.2	2455.8	10031.7	2456.1	10032.2
ET			9.1						9999.9	10012.0
X1	3220	9	9999.9	10016.8	340	300	320			
GR	2473.3	9939.6	2473.3	9941.2	2464.5	9960.2	2456.6	9980.4	2451.2	9999.9
GR	2450.2	10000.0	2455.1	10016.8	2470.3	10033.1	2486.1	10053.9		
ET			9.1						10000.0	10006.1
X1	3310	12	10000.0	10005.0	500	450	480			
GR	2501.2	9934.4	2501.2	9934.8	2500.4	9954.9	2497.2	9968.2	2488.5	9981.8
GR	2482.5	9997.0	2474.4	10000.0	2474.4	10000.1	2475.7	10005.0	2485.4	10024.4
GR	2496.0	10043.3	2499.8	10055.4						

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ET			9.1						9989.6	10000.9
[illegible]	3410	14	9989.6	10000.0	530	530	530			
[illegible]	2517.6	9906.2	2508.8	9928.4	2501.1	9962.5	2495.3	9989.6	2493.4	10000.0
[illegible]	2497.8	10012.6	2502.5	10030.1	2501.6	10053.3	2502.1	10072.7	2502.3	10104.2
GR	2505.5	10131.9	2507.7	10170.1	2510.9	10194.7	2515.0	10212.4		
ET			9.1						9996.0	10008.2

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X1     3460        13    10000.0    10008.2        260        260        260
GR   2517.0    9799.4     2517.0     9799.9     2515.0     9831.5     2513.8     9869.1     2512.3     9901.6
GR   2509.4    9942.6     2504.7     9971.0     2500.4     9990.1     2498.7    10000.0     2499.6    10008.2
GR   2508.9   10027.6     2511.9    10050.8     2513.3    10076.9

ET                          9.1                                                              9987.4    10003.1
X1     3520        17     9987.4    10000.0        310        330        320
GR   2527.1    9797.0     2524.6     9831.5     2523.3     9876.2     2522.4     9888.7     2522.4     9889.3
GR   2519.7    9923.3     2515.5     9952.5     2510.5     9987.4     2508.4    10000.0     2512.1    10030.4
GR   2512.8   10067.2     2514.7    10110.3     2519.8    10145.8     2522.9    10158.0     2527.0    10174.0
GR   2528.3   10190.8     2529.3    10195.8

ET                          9.1                                                             10000.0    10013.8
X1     3560        13    10000.0    10013.8        210        210        210
GR   2542.4    9894.8     2542.4     9894.9     2540.4     9921.0     2535.6     9937.4     2530.8     9960.1
GR   2522.8    9977.7     2518.4     9994.3     2516.1    10000.0     2518.4    10013.8     2521.6    10040.5
GR   2525.4   10073.0     2528.5    10099.4     2533.8    10136.2
1
   3/14/90      16:36: 8                                                                                    PAGE    9


T1       FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LA027815.H2
T2       100 YEAR FLOOD ENCROACHMENT MODEL
T3       WILLOW SPR. WASH, TRIB.1 (WST1.MCE)

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

                3                                                          2098.17

    NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

     15                  -1

1
   3/14/90      16:36: 8                                                                                    PAGE   10



                                                                                THIS RUN EXECUTED  3/14/90    16:37:36
**************************************************
  HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989


  ERROR CORR -  01,02,03
  MODIFICATION -
**************************************************


NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST


 WILLOW SPR. TRIB. 1

SUMMARY PRINTOUT


      SECNO       Q       VCH     DEPTH     ELMIN      XLCH     CWSEL      .01K    TOPWID      SSTA     STCHL     STCHR     ENDST

*    790.000  1438.00      7.92      2.17   2095.00       .00   2097.17    146.54    112.87   9936.53   9960.00  10045.00  10049.40
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	790.000	1438.00	5.49	3.17	2095.00	.00	2098.17	265.51	85.00	9960.00	9960.00	10045.00	10045.00
*	90.000	1438.00	7.56	2.24	2105.40	530.00	2107.64	107.14	197.80	9803.75	9931.10	10026.10	10048.05
	90.000	1438.00	8.19	3.25	2105.40	530.00	2108.65	139.55	84.10	9942.00	9931.10	10026.10	10026.10
*	170.000	1438.00	9.37	4.34	2107.20	420.00	2111.54	176.98	77.97	9972.95	9961.80	10012.30	10050.92
	170.000	1438.00	9.13	4.72	2107.20	420.00	2111.92	177.62	40.45	9971.85	9961.80	10012.30	10012.30
	220.000	1438.00	9.08	3.87	2109.60	260.00	2113.47	155.27	63.56	9963.59	9970.10	10026.10	10027.15
	220.000	1438.00	8.02	4.27	2109.60	260.00	2113.87	187.19	56.00	9970.10	9970.10	10026.10	10026.10
*	270.000	1438.00	8.52	4.21	2113.50	260.00	2117.71	188.36	151.72	9890.90	9976.20	10014.00	10042.62
*	270.000	1438.00	10.70	4.35	2113.50	260.00	2117.85	148.52	37.90	9976.10	9976.20	10014.00	10014.00
*	350.000	1438.00	8.29	4.01	2117.70	420.00	2121.71	170.56	123.16	9896.74	9963.20	10023.70	10019.90
	350.000	1438.00	8.34	4.22	2117.70	420.00	2121.92	175.83	55.80	9963.20	9963.20	10023.70	10019.00
*	420.000	1438.00	9.48	3.89	2120.80	370.00	2124.69	166.95	83.56	9945.39	9986.10	10026.90	10028.96
*	420.000	1438.00	10.49	3.92	2120.80	370.00	2124.72	142.06	40.80	9986.10	9986.10	10026.90	10026.90
*	520.000	1438.00	8.49	3.08	2128.20	530.00	2131.28	147.35	177.35	9980.24	9980.80	10026.00	10157.59
*	520.000	1438.00	8.71	3.85	2128.20	530.00	2132.05	168.66	106.80	9980.80	9980.80	10026.00	10087.60
*	630.000	1438.00	8.01	3.59	2134.00	580.00	2137.59	143.27	210.36	9936.11	9968.60	10021.30	10146.47
*	630.000	1438.00	9.34	4.05	2134.00	580.00	2138.05	137.65	74.30	9968.60	9968.60	10021.30	10042.90
	700.000	1438.00	7.52	4.59	2136.40	370.00	2140.99	149.70	79.77	9957.65	9959.00	10034.90	10037.41
*	700.000	1438.00	6.34	5.07	2136.40	370.00	2141.47	194.53	75.90	9959.00	9959.00	10034.90	10034.90
	780.000	1438.00	9.52	4.36	2141.40	420.00	2145.76	147.30	82.63	9937.46	9978.40	10014.10	10020.09
	780.000	1438.00	10.96	4.51	2141.40	420.00	2145.91	122.07	35.70	9978.40	9978.40	10014.10	10014.10

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	SECNO	Q	VCH	DEPTH	ELMIN	XLCH	CWSEL	.01K	TOPWID	SSTA	STCHL	STCHR	ENDST
*	880.000	1438.00	10.38	4.98	2145.30	530.00	2150.28	159.96	49.00	9972.99	9984.50	10021.40	10021.98
*	880.000	1438.00	8.97	5.65	2145.30	530.00	2150.95	194.92	36.90	9984.50	9984.50	10021.40	10021.40
*	980.000	1065.00	8.42	4.66	2152.40	530.00	2157.06	104.92	57.53	9983.71	9977.80	10041.00	10041.24
*	980.000	1065.00	8.57	4.62	2152.40	530.00	2157.02	101.87	57.20	9983.80	9977.80	10041.00	10041.00
*	1070.000	1065.00	9.72	4.15	2158.20	480.00	2162.35	114.00	44.35	9972.47	9978.00	10013.00	10016.82
*	1070.000	1065.00	9.98	4.11	2158.20	480.00	2162.31	104.28	35.00	9978.00	9978.00	10013.00	10013.00
*	1190.000	1065.00	9.20	3.70	2171.60	630.00	2175.30	110.01	48.91	9977.12	9980.20	10022.30	10026.03
*	1190.000	1065.00	9.38	3.70	2171.60	630.00	2175.30	101.97	42.10	9980.20	9980.20	10022.30	10022.30
*	1300.000	1065.00	8.72	3.95	2181.70	580.00	2185.65	109.33	61.04	9974.71	9974.90	10022.80	10035.75
*	1300.000	1065.00	9.03	3.95	2181.70	580.00	2185.65	103.11	47.90	9974.90	9974.90	10022.80	10022.80
*	1380.000	1065.00	7.81	3.64	2192.70	420.00	2196.34	86.08	74.75	9949.78	9926.50	10032.20	10024.53
*	1380.000	1065.00	7.82	3.64	2192.70	420.00	2196.34	85.82	74.69	9949.81	9926.50	10032.20	10024.50
	1450.000	1065.00	6.96	2.42	2201.00	370.00	2203.42	84.15	103.65	9950.87	9946.80	10069.30	10054.52
*	1450.000	1065.00	6.96	2.42	2201.00	370.00	2203.42	84.19	103.60	9950.90	9946.80	10069.30	10054.50
*	1520.000	1065.00	8.95	4.23	2204.90	370.00	2209.13	119.63	64.29	9979.02	9986.90	10026.20	10043.31

*	1520.000	1065.00	9.59	4.11	2204.90	370.00	2209.01	105.20	39.30	9986.90	9986.90	10026.20	10026.20
*	1580.000	629.00	7.84	3.15	2210.20	320.00	2213.35	59.78	42.49	9983.33	9978.80	10048.00	10025.82
	1580.000	629.00	7.91	3.13	2210.20	320.00	2213.33	59.12	42.29	9983.36	9978.80	10048.00	10025.65
*	1650.000	629.00	7.75	2.70	2219.50	370.00	2222.20	59.70	44.29	9977.20	9969.90	10029.40	10021.50
*	1650.000	629.00	7.77	2.70	2219.50	370.00	2222.20	59.55	44.26	9977.22	9969.90	10029.40	10021.48
*	1730.000	629.00	8.98	2.51	2227.10	420.00	2229.61	47.38	62.87	9957.50	10000.00	10012.50	10020.36
*	1730.000	629.00	10.04	3.01	2227.10	420.00	2230.11	41.51	26.90	9985.60	10000.00	10012.50	10012.50
*	1780.000	629.00	9.66	3.57	2230.90	260.00	2234.47	52.70	39.60	9977.95	9985.50	10000.00	10017.55
	1780.000	629.00	11.14	3.89	2230.90	260.00	2234.79	48.81	18.20	9985.30	9985.50	10000.00	10003.50
*	1820.000	629.00	10.30	3.91	2240.00	210.00	2243.91	51.95	30.22	9989.59	9994.30	10007.50	10019.81
*	1820.000	629.00	11.62	4.26	2240.00	210.00	2244.26	43.44	15.00	9994.30	9994.30	10007.50	10009.30
*	1880.000	629.00	11.21	3.55	2249.00	320.00	2252.55	46.50	41.45	9984.96	9995.30	10000.10	10026.41
*	1880.000	629.00	13.07	3.97	2249.00	320.00	2252.97	43.17	21.80	9994.00	9995.30	10000.10	10015.80
	1960.000	629.00	9.29	3.06	2256.50	420.00	2259.56	52.32	44.16	9977.02	9991.20	10000.00	10021.18
	1960.000	629.00	10.09	3.80	2256.50	420.00	2260.30	55.78	23.60	9988.20	9991.20	10000.00	10011.80
*	2040.000	629.00	11.06	3.42	2268.20	420.00	2271.62	46.92	40.96	9978.73	9995.10	10000.50	10019.69
*	2040.000	629.00	13.24	3.76	2268.20	420.00	2271.96	41.83	21.00	9991.00	9995.10	10000.50	10012.00
*	2100.000	629.00	8.97	2.64	2277.90	320.00	2280.54	43.26	47.76	9980.86	9985.70	10000.10	10028.62
*	2100.000	629.00	10.31	3.15	2277.90	320.00	2281.05	39.52	24.20	9985.70	9985.70	10000.10	10009.90

	SECNO	Q	VCH	DEPTH	ELMIN	XLCH	CWSEL	.01K	TOPWID	SSTA	STCHL	STCHR	ENDST
*	2160.000	629.00	9.03	3.03	2284.40	320.00	2287.43	52.79	41.22	9974.93	9992.10	10010.80	10016.15
	2160.000	629.00	9.66	3.60	2284.40	320.00	2288.00	45.19	18.70	9992.10	9992.10	10010.80	10010.80
*	2240.000	629.00	8.85	2.16	2295.20	420.00	2297.36	43.46	43.41	9995.94	10000.00	10019.10	10039.34
*	2240.000	629.00	9.94	2.75	2295.20	420.00	2297.95	41.72	25.40	10000.00	10000.00	10019.10	10025.40
*	2330.000	629.00	10.57	3.64	2308.30	480.00	2311.94	50.88	46.95	9969.44	9993.30	10000.10	10016.39
*	2330.000	629.00	12.93	3.84	2308.30	480.00	2312.14	43.14	19.80	9984.40	9993.30	10000.10	10004.20
*	2370.000	629.00	9.49	3.19	2314.50	210.00	2317.69	52.85	43.03	9983.83	9987.60	10000.60	10026.86
*	2370.000	629.00	11.19	3.48	2314.50	210.00	2317.98	40.76	18.50	9987.60	9987.60	10000.60	10006.10
*	2420.000	629.00	12.72	3.83	2323.60	260.00	2327.43	44.95	38.17	9989.40	9999.30	10002.00	10027.56
*	2420.000	629.00	15.51	4.12	2323.60	260.00	2327.72	38.69	19.60	9994.60	9999.30	10002.00	10014.20
*	2480.000	629.00	8.75	2.37	2332.90	320.00	2335.27	44.68	84.67	9930.44	10000.00	10012.30	10015.12
	2480.000	629.00	9.24	3.05	2332.90	320.00	2335.95	44.71	37.00	9975.30	10000.00	10012.30	10012.30
*	2570.000	629.00	13.75	4.15	2341.80	480.00	2345.95	41.41	41.60	9980.52	9998.90	10000.30	10022.12
	2570.000	629.00	15.79	4.62	2341.80	480.00	2346.42	38.84	19.00	9992.90	9998.90	10000.30	10011.90
	2630.000	629.00	10.65	4.05	2351.10	320.00	2355.15	44.54	39.49	9991.79	9994.00	10001.70	10031.27
*	2630.000	629.00	12.12	4.37	2351.10	320.00	2355.47	36.42	17.00	9994.00	9994.00	10001.70	10011.00
*	2710.000	629.00	11.98	4.81	2363.20	420.00	2368.01	47.74	47.29	9990.06	9996.40	10000.00	10037.35

*	2710.000	629.00	13.76	5.22	2363.20	420.00	2368.42	44.28	22.20	9996.00	9996.40	10000.00	10018.20
*	2770.000	629.00	9.11	3.20	2373.10	320.00	2376.30	49.12	43.11	9971.55	9981.10	10000.00	10014.66
	2770.000	629.00	10.35	3.64	2373.10	320.00	2376.74	43.96	20.60	9981.10	9981.10	10000.00	10001.70
*	2820.000	286.00	9.51	3.05	2379.70	260.00	2382.75	23.00	23.20	9992.31	9993.70	10000.00	10015.51
*	2820.000	286.00	11.11	3.36	2379.70	260.00	2383.06	16.03	9.20	9993.70	9993.70	10000.00	10002.90
*	2890.000	286.00	6.67	2.77	2391.90	370.00	2394.67	18.78	39.13	9993.59	9997.20	10033.10	10040.28
	2890.000	286.00	6.75	2.96	2391.90	370.00	2394.86	17.62	30.63	9997.20	9997.20	10033.10	10033.10
*	2980.000	286.00	8.28	2.75	2403.20	480.00	2405.95	21.15	25.74	9985.29	9989.00	10000.40	10011.03
	2980.000	286.00	8.84	3.46	2403.20	480.00	2406.66	18.33	11.40	9989.00	9989.00	10000.40	10000.40
*	3070.000	286.00	7.77	3.36	2420.20	480.00	2423.56	18.17	24.57	9990.64	9999.60	10018.90	10015.21
*	3070.000	286.00	8.61	3.97	2420.20	480.00	2424.17	17.52	14.40	9999.60	9999.60	10018.90	10014.00
*	3160.000	286.00	6.58	2.35	2438.60	480.00	2440.95	17.73	43.54	9968.39	10000.00	10012.20	10011.92
*	3160.000	286.00	9.11	2.88	2438.60	480.00	2441.48	16.69	15.60	9994.40	10000.00	10012.20	10010.00
*	3220.000	286.00	8.04	3.84	2450.20	320.00	2454.04	19.12	23.53	9989.64	9999.90	10016.80	10013.17
*	3220.000	286.00	9.24	4.30	2450.20	320.00	2454.50	16.76	12.10	9999.90	9999.90	10016.80	10012.00
*	3310.000	286.00	10.78	4.72	2474.40	480.00	2479.12	24.61	13.58	9998.25	10000.00	10005.00	10011.83
*	3310.000	286.00	12.16	5.01	2474.40	480.00	2479.41	14.55	6.10	10000.00	10000.00	10005.00	10006.10

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	SECNO	Q	VCH	DEPTH	ELMIN	XLCH	CWSEL	.01K	TOPWID	SSTA	STCHL	STCHR	ENDST
*	3410.000	286.00	8.54	3.18	2493.40	530.00	2496.58	20.98	25.47	9983.63	9989.60	10000.00	10009.10
*	3410.000	286.00	9.76	3.65	2493.40	530.00	2497.05	18.86	11.30	9989.60	9989.60	10000.00	10000.90
	3460.000	286.00	8.55	2.71	2498.70	260.00	2501.41	21.33	26.37	9985.61	10000.00	10008.20	10011.98
	3460.000	286.00	8.05	3.67	2498.70	260.00	2502.37	23.67	12.20	9996.00	10000.00	10008.20	10008.20
*	3520.000	286.00	7.70	2.50	2508.40	320.00	2510.90	17.55	35.98	9984.58	9987.40	10000.00	10020.57
*	3520.000	286.00	9.10	3.05	2508.40	320.00	2511.45	17.49	15.70	9987.40	9987.40	10000.00	10003.10
*	3560.000	286.00	7.82	3.10	2516.10	210.00	2519.20	21.04	29.23	9991.27	10000.00	10013.80	10020.50
*	3560.000	286.00	8.74	3.52	2516.10	210.00	2519.62	17.63	13.80	10000.00	10000.00	10013.80	10013.80

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WILLOW SPR. TRIB. 1

SUMMARY PRINTOUT

SECNO	Q	CWSEL	DIFWSP	DIFWSX	STENCL	STCHL	STCHR	STENCR	10*KS	EG	DIFEG
790.000	1438.00	2097.17	.00	.00	.00	9960.00	10045.00	.00	96.29	2098.13	.00
790.000	1438.00	2098.17	1.00	.00	9960.00	9960.00	10045.00	10045.00	29.33	2098.64	.51
* 90.000	1438.00	2107.64	.00	10.47	.00	9931.10	10026.10	.00	180.14	2108.29	.00
* 90.000	1438.00	2108.65	1.01	10.48	9942.00	9931.10	10026.10	10026.10	106.19	2109.69	1.40

*	170.000	1438.00	2111.54	.00	3.90	.00	9961.80	10012.30	.00	66.02	2112.82	.00
	170.000	1438.00	2111.92	.38	3.28	9961.80	9961.80	10012.30	10012.30	65.55	2113.22	.40
	220.000	1438.00	2113.47	.00	1.93	.00	9970.10	10026.10	.00	85.77	2114.75	.00
	220.000	1438.00	2113.87	.39	1.94	9970.10	9970.10	10026.10	10026.10	59.02	2114.86	.12
*	270.000	1438.00	2117.71	.00	4.23	.00	9976.20	10014.00	.00	58.28	2118.59	.00
*	270.000	1438.00	2117.85	.14	3.98	9976.10	9976.20	10014.00	10014.00	93.75	2119.63	1.03
*	350.000	1438.00	2121.71	.00	4.00	.00	9963.20	10023.70	.00	71.08	2122.70	.00
	350.000	1438.00	2121.92	.21	4.07	9963.20	9963.20	10023.70	10019.00	66.89	2123.00	.30
*	420.000	1438.00	2124.69	.00	2.99	.00	9986.10	10026.90	.00	74.19	2125.96	.00
*	420.000	1438.00	2124.72	.03	2.80	9986.10	9986.10	10026.90	10026.90	102.47	2126.43	.47
*	520.000	1438.00	2131.28	.00	6.59	.00	9980.80	10026.00	.00	95.24	2132.07	.00
*	520.000	1438.00	2132.05	.77	7.33	9980.80	9980.80	10026.00	10087.60	72.69	2133.07	1.00
*	630.000	1438.00	2137.59	.00	6.31	.00	9968.60	10021.30	.00	100.74	2138.27	.00
*	630.000	1438.00	2138.05	.46	6.00	9968.60	9968.60	10021.30	10042.90	109.13	2139.27	1.00
	700.000	1438.00	2140.99	.00	3.40	.00	9959.00	10034.90	.00	92.27	2141.87	.00
*	700.000	1438.00	2141.47	.48	3.42	9959.00	9959.00	10034.90	10034.90	54.64	2142.09	.22
*	780.000	1438.00	2145.76	.00	4.77	.00	9978.40	10014.10	.00	95.31	2146.97	.00
*	780.000	1438.00	2145.91	.15	4.44	9978.40	9978.40	10014.10	10014.10	138.76	2147.78	.80
*	880.000	1438.00	2150.28	.00	4.52	.00	9984.50	10021.40	.00	80.82	2151.92	.00
	880.000	1438.00	2150.95	.67	5.04	9984.50	9984.50	10021.40	10021.40	54.43	2152.20	.28
*	980.000	1065.00	2157.06	.00	6.78	.00	9977.80	10041.00	.00	103.03	2158.16	.00
*	980.000	1065.00	2157.02	-.04	6.07	9983.80	9977.80	10041.00	10041.00	109.31	2158.16	.00
*	1070.000	1065.00	2162.35	.00	5.29	.00	9978.00	10013.00	.00	87.28	2163.80	.00
*	1070.000	1065.00	2162.31	-.04	5.29	9978.00	9978.00	10013.00	10013.00	104.30	2163.86	.06
*	1190.000	1065.00	2175.30	.00	12.95	.00	9980.20	10022.30	.00	93.71	2176.59	.00
*	1190.000	1065.00	2175.30	.00	12.99	9980.20	9980.20	10022.30	10022.30	109.08	2176.66	.08
*	1300.000	1065.00	2185.65	.00	10.35	.00	9974.90	10022.80	.00	94.89	2186.80	.00
*	1300.000	1065.00	2185.65	.00	10.36	9974.90	9974.90	10022.80	10022.80	106.68	2186.92	.12

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	SECNO	Q	CWSEL	DIFWSP	DIFWSX	STENCL	STCHL	STCHR	STENCR	10*KS	EG	DIFEG
*	1380.000	1065.00	2196.34	.00	10.69	.00	9926.50	10032.20	.00	153.07	2197.29	.00
*	1380.000	1065.00	2196.34	-.00	10.68	9949.80	9926.50	10032.20	10024.50	154.01	2197.29	.00
*	1450.000	1065.00	2203.42	.00	7.08	.00	9946.80	10069.30	.00	160.18	2204.17	.00
*	1450.000	1065.00	2203.42	.00	7.08	9950.90	9946.80	10069.30	10054.50	160.00	2204.17	.00
	1520.000	1065.00	2209.13	.00	5.71	.00	9986.90	10026.20	.00	79.25	2210.34	.00
	1520.000	1065.00	2209.01	-.12	5.59	9986.90	9986.90	10026.20	10026.20	102.48	2210.44	.10
*	1580.000	629.00	2213.35	.00	4.22	.00	9978.80	10048.00	.00	110.72	2214.30	.00
*	1580.000	629.00	2213.33	-.02	4.32	9983.30	9978.80	10048.00	10025.80	113.20	2214.31	.00

*	1650.000	629.00	2222.20	.00	8.85	.00	9969.90	10029.40	.00	111.02	2223.14	.00
*	1650.000	629.00	2222.20	-.00	8.87	9977.20	9969.90	10029.40	10021.50	111.56	2223.14	.00
	1730.000	629.00	2229.61	.00	7.40	.00	10000.00	10012.50	.00	176.25	2230.39	.00
*	1730.000	629.00	2230.11	.50	7.90	9985.60	10000.00	10012.50	10012.50	229.57	2231.39	1.00
*	1780.000	629.00	2234.47	.00	4.86	.00	9985.50	10000.00	.00	142.48	2235.60	.00
	1780.000	629.00	2234.79	.33	4.69	9985.30	9985.50	10000.00	10003.50	166.04	2236.59	.99
*	1820.000	629.00	2243.91	.00	9.44	.00	9994.30	10007.50	.00	146.62	2245.26	.00
*	1820.000	629.00	2244.26	.35	9.46	9994.30	9994.30	10007.50	10009.30	209.63	2246.26	.99
*	1880.000	629.00	2252.55	.00	8.64	.00	9995.30	10000.10	.00	182.95	2253.57	.00
*	1880.000	629.00	2252.97	.42	8.71	9994.00	9995.30	10000.10	10015.80	212.30	2254.57	1.00
	1960.000	629.00	2259.56	.00	7.01	.00	9991.20	10000.00	.00	144.55	2260.40	.00
	1960.000	629.00	2260.30	.74	7.33	9988.20	9991.20	10000.00	10011.80	127.14	2261.41	1.01
*	2040.000	629.00	2271.62	.00	12.06	.00	9995.10	10000.50	.00	179.72	2272.65	.00
*	2040.000	629.00	2271.96	.34	11.67	9991.00	9995.10	10000.50	10012.00	226.07	2273.65	.99
*	2100.000	629.00	2280.54	.00	8.92	.00	9985.70	10000.10	.00	211.40	2281.48	.00
*	2100.000	629.00	2281.05	.50	9.08	9985.70	9985.70	10000.10	10009.90	253.34	2282.47	.99
*	2160.000	629.00	2287.43	.00	6.89	.00	9992.10	10010.80	.00	142.00	2288.49	.00
	2160.000	629.00	2288.00	.57	6.96	9992.10	9992.10	10010.80	10010.80	193.71	2289.45	.96
*	2240.000	629.00	2297.36	.00	9.93	.00	10000.00	10019.10	.00	209.46	2298.34	.00
	2240.000	629.00	2297.95	.58	9.94	10000.00	10000.00	10019.10	10025.40	227.28	2299.33	.99
*	2330.000	629.00	2311.94	.00	14.58	.00	9993.30	10000.10	.00	152.82	2312.91	.00
*	2330.000	629.00	2312.14	.20	14.20	9984.40	9993.30	10000.10	10004.20	212.62	2313.91	1.00
*	2370.000	629.00	2317.69	.00	5.75	.00	9987.60	10000.60	.00	141.63	2318.71	.00
*	2370.000	629.00	2317.98	.29	5.84	9987.60	9987.60	10000.60	10006.10	238.18	2319.71	1.00
*	2420.000	629.00	2327.43	.00	9.74	.00	9999.30	10002.00	.00	195.79	2328.50	.00
*	2420.000	629.00	2327.72	.29	9.73	9994.60	9999.30	10002.00	10014.20	264.25	2329.50	1.00

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	SECNO	Q	CWSEL	DIFWSP	DIFWSX	STENCL	STCHL	STCHR	STENCR	10*KS	EG	DIFEG
*	2480.000	629.00	2335.27	.00	7.84	.00	10000.00	10012.30	.00	198.20	2335.90	.00
	2480.000	629.00	2335.95	.69	8.23	9975.30	10000.00	10012.30	10012.30	197.88	2336.89	.99
*	2570.000	629.00	2345.95	.00	10.69	.00	9998.90	10000.30	.00	230.75	2346.98	.00
	2570.000	629.00	2346.42	.47	10.47	9992.90	9998.90	10000.30	10011.90	262.31	2347.98	1.00
*	2630.000	629.00	2355.15	.00	9.20	.00	9994.00	10001.70	.00	199.39	2356.27	.00
*	2630.000	629.00	2355.47	.32	9.05	9994.00	9994.00	10001.70	10011.00	298.24	2357.27	1.00
	2710.000	629.00	2368.01	.00	12.85	.00	9996.40	10000.00	.00	173.60	2369.00	.00
	2710.000	629.00	2368.42	.41	12.95	9996.00	9996.40	10000.00	10018.20	201.76	2370.00	1.00
*	2770.000	629.00	2376.30	.00	8.30	.00	9981.10	10000.00	.00	163.95	2377.35	.00
*	2770.000	629.00	2376.74	.43	8.32	9981.10	9981.10	10000.00	10001.70	204.76	2378.34	1.00

*	2820.000	286.00	2382.75	.00	6.45	.00	9993.70	10000.00	.00	154.68	2383.73	.00
*	2820.000	286.00	2383.06	.31	6.33	9993.70	9993.70	10000.00	10002.90	318.21	2384.72	.99
	2890.000	286.00	2394.67	.00	11.91	.00	9997.20	10033.10	.00	231.87	2395.29	.00
	2890.000	286.00	2394.86	.19	11.80	9997.20	9997.20	10033.10	10033.10	263.47	2395.57	.27
*	2980.000	286.00	2405.95	.00	11.28	.00	9989.00	10000.40	.00	182.93	2406.79	.00
	2980.000	286.00	2406.66	.71	11.80	9989.00	9989.00	10000.40	10000.40	243.50	2407.87	1.08
*	3070.000	286.00	2423.56	.00	17.61	.00	9999.60	10018.90	.00	247.80	2424.39	.00
*	3070.000	286.00	2424.17	.61	17.51	9999.60	9999.60	10018.90	10014.00	266.36	2425.32	.93
*	3160.000	286.00	2440.95	.00	17.39	.00	10000.00	10012.20	.00	260.25	2441.52	.00
*	3160.000	286.00	2441.48	.54	17.31	9994.40	10000.00	10012.20	10010.00	293.72	2442.62	1.10
*	3220.000	286.00	2454.04	.00	13.10	.00	9999.90	10016.80	.00	223.65	2454.90	.00
*	3220.000	286.00	2454.50	.46	13.02	9999.90	9999.90	10016.80	10012.00	291.02	2455.82	.93
*	3310.000	286.00	2479.12	.00	25.08	.00	10000.00	10005.00	.00	135.11	2480.57	.00
*	3310.000	286.00	2479.41	.30	24.91	10000.00	10000.00	10005.00	10006.10	386.30	2481.58	1.01
*	3410.000	286.00	2496.58	.00	17.46	.00	9989.60	10000.00	.00	185.76	2497.49	.00
*	3410.000	286.00	2497.05	.48	17.64	9989.60	9989.60	10000.00	10000.90	229.99	2498.48	1.00
	3460.000	286.00	2501.41	.00	4.83	.00	10000.00	10008.20	.00	179.77	2502.24	.00
	3460.000	286.00	2502.37	.96	5.32	9996.00	10000.00	10008.20	10008.20	146.02	2503.24	1.00
*	3520.000	286.00	2510.90	.00	9.49	.00	9987.40	10000.00	.00	265.56	2511.60	.00
	3520.000	286.00	2511.45	.54	9.07	9987.40	9987.40	10000.00	10003.10	267.27	2512.60	1.00
*	3560.000	286.00	2519.20	.00	8.30	.00	10000.00	10013.80	.00	184.76	2520.02	.00
*	3560.000	286.00	2519.62	.42	8.17	10000.00	10000.00	10013.80	10013.80	263.10	2520.81	.78

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SUMMARY OF ERRORS AND SPECIAL NOTES

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CAUTION SECNO=    790.000  PROFILE=  1  CRITICAL DEPTH ASSUMED

CAUTION SECNO=     90.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     90.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     90.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     90.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     90.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=    170.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=    270.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    270.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    270.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    270.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    270.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    270.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
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CAUTION SECNO=    350.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    350.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    420.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    420.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    420.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    420.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    520.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    520.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    520.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    520.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    630.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    630.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    630.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    630.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

WARNING SECNO=    700.000  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=    780.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    780.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    780.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    780.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    780.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=    880.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    880.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
WARNING SECNO=    880.000  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=    980.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    980.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    980.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    980.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
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CAUTION SECNO=    980.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=   1070.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1070.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   1070.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1070.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=   1190.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1190.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   1190.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   1190.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1190.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=   1300.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1300.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
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CAUTION SECNO=   1380.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   1380.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
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CAUTION SECNO=   1820.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

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   ION SECNO=    2570.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
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 3/14/90      16:36: 8                                                    PAGE   21

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1
   3/14/90      16:36: 8                                                    PAGE   22


FLOODWAY DATA,    WILLOW SPR. TRIB. 1
PROFILE NO.  2

          ------- FLOODWAY -------      WATER SURFACE ELEVATION
 STATION    WIDTH    SECTION    MEAN      WITH    WITHOUT  DIFFERENCE
                      AREA    VELOCITY  FLOODWAY  FLOODWAY
```

790.000	85.	262.	5.5	2098.2	2097.2	1.0
90.000	84.	176.	8.2	2108.6	2107.6	1.0
170.000	40.	157.	9.1	2111.9	2111.5	.4
220.000	56.	179.	8.0	2113.9	2113.5	.4
70.000	38.	135.	10.7	2117.8	2117.7	.1
350.000	56.	172.	8.3	2121.9	2121.7	.2
420.000	41.	137.	10.5	2124.7	2124.7	.0
520.000	107.	215.	6.7	2132.0	2131.3	.7
630.000	74.	175.	8.2	2138.0	2137.6	.4
700.000	76.	227.	6.3	2141.5	2141.0	.5
780.000	36.	131.	11.0	2145.9	2145.8	.1
880.000	37.	160.	9.0	2151.0	2150.3	.7
980.000	57.	124.	8.6	2157.0	2157.1	-.1
1070.000	35.	107.	10.0	2162.3	2162.3	.0
1190.000	42.	113.	9.4	2175.3	2175.3	.0
1300.000	48.	118.	9.0	2185.7	2185.7	.0
1380.000	75.	136.	7.8	2196.3	2196.3	.0
1450.000	104.	153.	7.0	2203.4	2203.4	.0
1520.000	39.	111.	9.6	2209.0	2209.1	-.1
1580.000	42.	80.	7.9	2213.3	2213.4	-.1
1650.000	44.	81.	7.8	2222.2	2222.2	.0
1730.000	27.	71.	8.9	2230.1	2229.6	.5
1780.000	18.	62.	10.1	2234.8	2234.5	.3
1820.000	15.	58.	10.8	2244.3	2243.9	.4
1880.000	22.	69.	9.1	2253.0	2252.5	.5
1960.000	24.	82.	7.7	2260.3	2259.6	.7
2040.000	21.	67.	9.4	2272.0	2271.6	.4
2100.000	24.	67.	9.4	2281.0	2280.5	.5
2160.000	19.	65.	9.7	2288.0	2287.4	.6
240.000	25.	69.	9.2	2297.9	2297.4	.5
330.000	20.	66.	9.5	2312.1	2311.9	.2
2370.000	18.	62.	10.1	2318.0	2317.7	.3
2420.000	20.	67.	9.4	2327.7	2327.4	.3
2480.000	37.	87.	7.2	2336.0	2335.3	.7
2570.000	19.	69.	9.1	2346.4	2346.0	.4
2630.000	17.	60.	10.5	2355.5	2355.2	.3
2710.000	22.	73.	8.7	2368.4	2368.0	.4
2770.000	21.	64.	9.8	2376.7	2376.3	.4
2820.000	9.	29.	9.7	2383.1	2382.8	.3
2890.000	36.	42.	6.8	2394.9	2394.7	.2
2980.000	11.	32.	8.8	2406.7	2405.9	.8
3070.000	14.	33.	8.6	2424.2	2423.6	.6

1

FLOODWAY DATA, WILLOW SPR. TRIB. 1
PROFILE NO. 2

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE
3160.000	16.	34.	8.5	2441.5	2440.9	.6
3220.000	12.	31.	9.2	2454.5	2454.0	.5
3310.000	6.	26.	11.1	2479.4	2479.1	.3
3410.000	11.	31.	9.1	2497.1	2496.6	.5

3460.000	12.	40.	7.2	2502.4	2501.4	1.0
3520.000	16.	34.	8.4	2511.4	2510.9	.5
3560.000	14.	33.	8.7	2519.6	2519.2	.4

```
*****************************************************
*  WATER SURFACE PROFILES                           *
*  VERSION OF SEPTEMBER 1988                        *
*  ERROR: 01,02,03                                  *
*  UPDATED:  SEPTEMBER 1989                         *
*  RUN DATE     3/ 8/90   TIME   17: 7:21           *
*     ***************************************************
```

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****************************************
*  U.S. ARMY CORPS OF ENGINEERS
*  THE HYDROLOGIC ENGINEERING CENTER
*  609 SECOND STREET, SUITE D
*  DAVIS, CALIFORNIA 95616-4687
*           (916) 756-1104
****************************************
```

WSTIA.OUT

```
X     X  XXXXXXX   XXXXX              XXXXX
X     X  X       X     X            X     X
X     X  X       X                        X
XXXXXXX  XXXX    X          XXXXX    XXXXX
X     X  X       X                  X
X     X  X       X     X            X
X     X  XXXXXXX   XXXXX            XXXXXXX
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END OF BANNER

THIS RUN EXECUTED 3/ 8/90 17: 7:21

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**************************************************
  HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989


  ERROR CORR -  01,02,03
  MODIFICATION -
**************************************************


T1       FLOOD CONTROL DISTRICT OF MARICOPA COUNTY  - LAO27815.H2
T2       10 YEAR FLOOD FREQUENCY MODEL
T3       WILLOW SPR. WASH, TRIB.1A (WST1A.DAT)


J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

                2                           .02                                   2206.69

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

    1                   -1


J7   \RIABLE CODES FOR SUMMARY PRINTOUT

    38         1         43         8         55         26         56         13         14         15
     4         5         51
   150


QT       4       192       290       341       431

NC     .04       .04       .03        .1        .3

         *****REVISED STREAMFLOW VALUES ARE FROM CVCRK43R.OUT (CH2M-HEC1)
         COMMON SECTION IS SEC. 1520 FROM WILLOW SPR. WASH TRIB. 1.
         SEC. 000 = SEC. 1.536 ON WILLOW SPR. WASH TRIB.1.
         QT VALUES FROM SUBAREA F1B (0.16* CP F1)
         ABOVE VALUE IS USED THROUGHOUT ENTIRE STUDY REACH

X1     1520        25    9986.9   10026.2
GR   2222.7    9838.8    2219.2    9892.9    2215.4    9932.7    2210.6    9962.1    2210.8    9966.2
GR   2208.1    9986.9    2206.7    9995.2    2204.9   10000.0    2205.1   10011.5    2208.0   10026.2
GR   2209.7   10052.0    2211.9   10066.8    2211.0   10074.7    2213.7   10088.2    2213.0   10126.5
GR   2213.0   10137.2    2213.5   10163.6    2213.6   10199.0    2214.0   10240.2    2215.3   10284.3
GR   2217.2   10337.3    2217.9   10386.5    2221.3   10431.9    2221.8   10476.8    2222.3   10489.1
```

NC	.045	.045	.03							
X1	80	14	10000.0	10008.1	520	540	530			
GR	2233.7	9716.1	2232.4	9727.9	2230.8	9775.2	2224.9	9831.5	2224.1	9887.6
GR	2223.3	9923.8	2221.9	9954.8	2216.1	9976.2	2212.4	10000.0	2215.6	10008.1
GR	2220.3	10033.5	2222.5	10048.3	2225.8	10092.6	2231.3	10152.7		
NC			.028							
X1	150	16	10000.0	10008.4	370	370	370			
GR	2242.1	9757.5	2238.3	9790.6	2234.2	9845.5	2233.7	9887.2	2232.9	9908.5
GR	2231.5	9916.2	2226.8	9935.8	2225.3	9971.7	2221.7	10000.0	2222.9	10008.4
GR	2226.6	10029.3	2227.3	10058.1	2231.2	10087.9	2232.9	10099.7	2238.9	10123.6
GR	2243.8	10157.5								
X1	200	15	9979.3	10000.0	260	260	260			
GR	2248.2	9730.0	2246.2	9750.9	2243.1	9809.7	2240.1	9860.4	2238.7	9904.4
GR	2235.5	9955.9	2232.9	9973.6	2230.2	9979.3	2229.5	10000.0	2232.3	10010.0
GR	2232.9	10013.5	2238.0	10032.6	2244.1	10056.6	2249.7	10111.9	2252.1	10144.8
NC	.05	.05	.04							
[illegible]	260	13	9989.1	10001.9	320	320	320			
GR	2256.7	9913.2	2252.9	9927.2	2248.4	9950.2	2244.7	9973.1	2237.1	9989.1
GR	2236.5	10000.0	2237.5	10001.9	2241.7	10023.7	2246.2	10045.3	2248.3	10049.6
GR	2248.3	10081.7	2252.3	10126.2	2254.4	10167.3				
X1	330	10	9990.3	10000.2	390	350	370			
GR	2268.7	9936.9	2265.3	9946.4	2256.3	9965.3	2248.3	9990.3	2247.7	10000.0
GR	2247.7	10000.2	2255.5	10009.8	2258.9	10028.3	2262.9	10049.6	2268.3	10077.9
NC	.055	.055	.045							
X1	390	16	9999.8	10016.7	320	320	320			
GR	2278.7	9920.4	2276.6	9924.2	2274.7	9943.3	2273.2	9948.4	2268.1	9968.3
GR	2266.2	9980.8	2264.1	9989.1	2260.4	9999.8	2260.5	10000.0	2264.6	10016.7
GR	2269.0	10037.7	2272.9	10061.8	2274.3	10100.5	2279.2	10146.5	2287.2	10185.8
GR	2287.4	10201.7								
NH	4	.055	10000.0	.045	10016.4	.055	10050.0	99	10242.0	
X1	440	13	10000.0	10016.4	240	280	260			
GR	2290.0	9912.2	2288.0	9916.6	2281.8	9943.1	2276.0	9971.0	2270.5	10000.0
[illegible]	2272.4	10016.4	2275.1	10035.5	2275.0	10050.0	2271.5	10068.6	2275.8	10092.4
[illegible]	2282.0	10135.8	2284.3	10189.2	2289.9	10242.0				

NC	.06	.06	.05							
X1	520	10	9983.4	10000.0	440	400	420			
GR	2306.8	9830.0	2304.0	9862.2	2299.6	9896.8	2293.8	9931.0	2292.0	9963.2
GR	2290.8	9983.4	2287.2	10000.0	2293.5	10020.4	2301.9	10048.0	2306.4	10075.0
X1	590	9	10000.0	10021.8	380	360	370			
GR	2330.3	9928.2	2329.5	9937.7	2312.0	9982.8	2305.5	10000.0	2309.9	10021.8
GR	2318.5	10033.3	2321.5	10056.7	2323.4	10094.4	2326.3	10132.4		
X1	680	10	10000.0	10015.7	480	480	480			
GR	2360.2	9909.8	2357.5	9921.7	2350.9	9949.8	2348.4	9964.3	2343.1	9981.4
GR	2339.6	10000.0	2339.0	10003.2	2342.1	10015.7	2352.9	10029.5	2360.6	10056.3
X1	760	9	9986.4	10000.0	410	430	420			
GR	2395.8	9923.6	2389.4	9945.1	2381.6	9961.0	2374.5	9986.4	2371.3	10000.0
GR	2372.5	10001.7	2377.1	10015.2	2385.2	10030.5	2393.7	10062.0		
X1	840	10	10000.0	10009.0	430	410	420			
GR	2431.1	9934.0	2429.8	9939.2	2422.9	9964.7	2416.0	9985.2	2407.3	10000.0
	2406.0	10000.3	2408.1	10009.0	2416.2	10024.7	2424.8	10047.6	2432.1	10070.0
X1	910	9	10007.1	10013.3	360	380	370			
GR	2463.9	9935.7	2455.5	9957.8	2447.2	9978.6	2441.4	10000.0	2439.0	10007.1
GR	2439.3	10013.3	2446.2	10026.4	2456.2	10044.4	2464.4	10068.3		
X1	970	10	10000.0	10002.3	320	320	320			
GR	2508.6	9921.6	2502.3	9939.1	2495.6	9957.2	2489.1	9986.4	2486.6	10000.0
GR	2485.3	10002.3	2489.7	10009.4	2490.4	10030.7	2497.4	10068.2	2506.2	10104.2

```
   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   IE       VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*PROF 1

CCHV=     .100 CEHV=     .300
*SECNO 1520.000
3720 CRITICAL DEPTH ASSUMED
        *****REVISED STREAMFLOW VALUES ARE FROM CVCRK43R.OUT (CH2M-HEC1)
        COMMON SECTION IS SEC. 1520 FROM WILLOW SPR. WASH TRIB. 1.
        SEC. 000 = SEC. 1.536 ON WILLOW SPR. WASH TRIB.1.
        QT VALUES FROM SUBAREA F1B (0.16* CP F1)
        ABOVE VALUE IS USED THROUGHOUT ENTIRE STUDY REACH

 1520.000     1.79  2206.69  2206.69  2206.69  2207.32      .63      .00      .00  2208.10
     192.       0.     192.       0.       0.      30.       0.       0.       0.   2208.00
      .00      .00     6.35      .00     .000     .030     .000     .000  2204.90  9995.22
  .012681       0.       0.       0.        0        5        0      .00    24.36 10019.58


*SECNO 80.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     80.000     2.61  2215.01  2215.01      .00  2215.68      .67     8.35      .01  2212.40
     192.      123.      69.       0.      22.       9.       0.       0.       0.   2215.60
      .02      5.59     8.05      .00     .045     .030     .000     .000  2212.40  9983.20
  .020365      520.     530.     540.        9       14        0      .00    23.41 10006.61


*SECNO 150.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  150.000     2.25  2223.95  2223.95      .00  2224.59      .64     5.57      .00  2221.70
     192.      76.     109.       7.      20.      14.       3.       1.       1.   2222.90
      .04      3.82     7.91     2.28     .045     .028     .045     .000  2221.70  9982.35
  .011582      370.     370.     370.       10       15        0      .00    31.96 10014.30


*SECNO 200.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  200.000     1.65  2231.15  2231.15      .00  2231.77      .62     2.90      .00  2230.20
     192.       2.     176.      14.       1.      27.       5.       1.       1.   2229.50
      .05      1.95     6.54     2.93     .045     .028     .045     .000  2229.50  9977.30
  .010737      260.     260.     260.       20       19        0      .00    28.59 10005.89
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 CNO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q       QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 IE      VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 LOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 260.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  260.000     2.20  2238.70  2238.70      .00  2239.45      .74     4.25      .04  2237.10
     192.      8.     173.      10.       3.      24.       4.       1.       1.   2237.50
      .06     3.11     7.22     2.71     .050     .040     .050     .000  2236.50  9985.72
  .016811     320.     320.     320.        5       11        0      .00    22.43 10008.15


*SECNO 330.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  330.000     2.37  2250.07  2250.07      .00  2250.92      .85     6.28      .03  2248.30
     192.      17.     162.      13.       5.      21.       3.       1.       1.   2247.70
      .08     3.47     7.90     3.68     .050     .040     .050     .000  2247.70  9984.77
  .017102     390.     370.     350.        3        8        0      .00    18.35 10003.12


*SECNO 390.000
 MINIMUM SPECIFIC ENERGY
 CRITICAL DEPTH ASSUMED
  .000     2.88  2263.28  2263.28      .00  2264.02      .74     7.38      .01  2260.40
  192.      72.     120.       0.      12.      16.       0.       2.       1.   2264.60
      .09     6.00     7.37      .00     .055     .045     .000     .000  2260.40  9991.48
  .032733     320.     320.     320.       13       11        0      .00    19.84 10011.32


1490 NH CARD USED
*SECNO 440.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  440.000     2.14  2272.64  2272.64      .00  2273.24      .60     8.32      .01  2270.50
     192.      61.     131.       0.      12.      19.       7.       2.       1.   2272.40
      .10     5.07     6.70      .03     .055     .045    5.215     .000  2270.50  9988.73
  .033042     240.     260.     280.        3       19        0      .00    41.70 10074.90


*SECNO 520.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
```

CNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
IE	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
520.000	2.72	2289.92	2289.92	.00	2290.62	.70	15.12	.03	2290.80
192.	0.	122.	70.	0.	17.	12.	2.	2.	2287.20
.12	.00	7.14	5.86	.000	.050	.060	.000	2287.20	9987.46
.039479	440.	420.	400.	9	11	0	.00	21.35	10008.81

*SECNO 590.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

590.000	2.77	2308.27	2308.27	.00	2308.96	.69	14.23	.00	2305.50
192.	58.	134.	0.	10.	19.	0.	2.	2.	2309.90
.14	5.70	7.06	.00	.060	.050	.000	.000	2305.50	9992.67
.037553	380.	370.	360.	9	5	0	.00	21.05	10013.72

*SECNO 680.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

680.000	2.58	2341.58	2341.58	.00	2342.24	.66	16.92	.00	2339.60
192.	46.	146.	0.	10.	21.	0.	3.	2.	2342.10
.16	4.43	7.04	.00	.060	.050	.000	.000	2339.00	9989.48
3160	480.	480.	480.	4	11	0	.00	24.13	10013.61

*SECNO 760.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

760.000	3.03	2374.33	2374.33	.00	2375.06	.72	14.30	.02	2374.50
192.	0.	141.	51.	0.	20.	9.	3.	2.	2371.30
.17	.00	7.21	5.63	.000	.050	.060	.000	2371.30	9987.11
.034959	410.	420.	430.	11	11	0	.00	19.97	10007.08

*SECNO 840.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

840.000	3.39	2409.39	2409.39	.00	2410.34	.95	13.29	.07	2407.30
192.	15.	173.	5.	4.	21.	2.	3.	2.	2408.10
.19	3.92	8.17	2.90	.060	.050	.060	.000	2406.00	9996.45
.028913	430.	420.	410.	12	8	0	.00	15.04	10011.49

ECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
IE	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 910.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

910.000	2.60	2441.60	2441.60	.00	2442.41	.82	9.69	.01	2439.00
192.	46.	127.	19.	10.	15.	5.	3.	3.	2439.30
.20	4.59	8.35	3.87	.060	.050	.060	.000	2439.00	9999.27
.023929	360.	370.	380.	20	15	0	.00	18.40	10017.66

*SECNO 970.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

970.000	3.54	2488.84	2488.84	.00	2489.67	.83	8.92	.00	2486.60
192.	66.	66.	60.	14.	7.	10.	4.	3.	2485.30
.22	4.80	9.98	5.90	.060	.050	.060	.000	2485.30	9987.79
.032892	320.	320.	320.	20	14	0	.00	20.23	10008.02

T2 FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LA027815.H2
50 YEAR FLOOD FREQUENCY MODEL
T WILLOW SPR. WASH, TRIB.1A (WST1A.DAT)

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
		3			.02				2207.14	

J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	2		-1							

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 CNO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
 Q       QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
 IE      VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*PROF 2

CCHV=     .100 CEHV=     .300
*SECNO 1520.000
3720 CRITICAL DEPTH ASSUMED
        *****REVISED STREAMFLOW VALUES ARE FROM CVCRK43R.OUT (CH2M-HEC1)
        COMMON SECTION IS SEC. 1520 FROM WILLOW SPR. WASH TRIB. 1.
        SEC. 000 = SEC. 1.536 ON WILLOW SPR. WASH TRIB.1.
        QT VALUES FROM SUBAREA F1B (0.16* CP F1)
        ABOVE VALUE IS USED THROUGHOUT ENTIRE STUDY REACH

 1520.000     2.24  2207.14  2207.14  2207.14  2207.87      .73      .00      .00  2208.10
    290.       0.     290.       0.       0.      42.       0.       0.       0.   2208.00
     .00      .00     6.86      .00     .000     .030     .000     .000  2204.90  9992.56
  .012047       0.       0.       0.        0        5        0      .00    29.30 10021.86


*SECNO 80.000
7185 MINIMUM SPECIFIC ENERGY
 CRITICAL DEPTH ASSUMED
  80.000     3.10  2215.50  2215.50      .00  2216.27      .77     7.78      .01  2212.40
    290.     185.     105.       0.      31.      12.       0.       1.       0.   2215.60
     .02     5.98     8.61      .00     .045     .030     .000     .000  2212.40  9980.04
  .018531     520.     530.     540.       10       11        0      .00    27.81 10007.85


*SECNO 150.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  150.000     2.70  2224.40  2224.40      .00  2225.16      .76     5.03      .00  2221.70
    290.     117.     155.      17.      29.      18.       6.       1.       1.   2222.90
     .04     4.09     8.81     2.75     .045     .028     .045     .000  2221.70  9978.78
  .010398     370.     370.     370.       12       15        0      .00    38.09 10016.87


*SECNO 200.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  200.000     2.05  2231.55  2231.55      .00  2232.34      .79     2.60      .01  2230.20
    290.       4.     261.      24.       2.      35.       8.       1.       1.   2229.50
     .05     2.33     7.42     3.21     .045     .028     .045     .000  2229.50  9976.45
  .009629     260.     260.     260.       20       15        0      .00    30.88 10007.33
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 ECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
         QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  IE     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
 SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*SECNO 260.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  260.000     2.72  2239.22  2239.22      .00  2240.12      .89     3.82      .03  2237.10
     290.      17.     248.      25.       5.      31.       8.       2.       1.   2237.50
      .06     3.57     8.09     3.28     .050     .040     .050     .000  2236.50  9984.63
  .015226     320.     320.     320.       20       11        0      .00    26.21 10010.84


*SECNO 330.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  330.000     2.95  2250.65  2250.65      .00  2251.69     1.04     5.71      .04  2248.30
     290.      35.     234.      22.       9.      26.       5.       2.       1.   2247.70
      .07     4.00     8.89     4.07     .050     .040     .050     .000  2247.70  9982.96
  .015634     390.     370.     350.       10        8        0      .00    20.87 10003.83


*SECNO 390.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  390.000     3.41  2263.81  2263.81      .00  2264.66      .84     6.72      .02  2260.40
     290.     108.     182.       0.      17.      23.       0.       2.       1.   2264.60
      .08     6.41     7.89      .00     .055     .045     .000     .000  2260.40  9989.92
  .029737     320.     320.     320.       20        8        0      .00    23.58 10013.50


1490 NH CARD USED
*SECNO 440.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  440.000     2.55  2273.05  2273.05      .00  2273.78      .73     7.29      .01  2270.50
     290.      90.     197.       3.      17.      26.      15.       2.       2.   2272.40
      .09     5.24     7.51      .22     .055     .045     .900     .000  2270.50  9986.56
  .027867     240.     260.     280.       10       19        0      .00    51.26 10077.18
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   IE     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 520.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  520.000     3.20  2290.40  2290.40      .00  2291.23      .83    13.49      .03  2290.80
     290.       0.     184.     106.       0.      24.      17.       3.       2.   2287.20
      .11      .00     7.77     6.38     .000     .050     .060     .000  2287.20  9985.22
 .037568     440.     420.     400.       10       11        0      .00    25.16 10010.38


*SECNO 590.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  590.000     3.27  2308.77  2308.77      .00  2309.58      .82    13.50      .00  2305.50
     290.      87.     203.       0.      14.      26.       0.       3.       2.   2309.90
      .12     6.19     7.67      .00     .060     .050     .000     .000  2305.50  9991.36
 .035532     380.     370.     360.       10        5        0      .00    24.83 10016.18


*SECNO 680.000
 MINIMUM SPECIFIC ENERGY
 CRITICAL DEPTH ASSUMED
     .000     3.08  2342.08  2342.08      .00  2342.81      .74    15.72      .01  2339.60
     290.      80.     210.       0.      16.      28.       0.       4.       2.   2342.10
      .14     4.92     7.50      .00     .060     .050     .000     .000  2339.00  9986.83
 .030294     480.     480.     480.        9       10        0      .00    28.78 10015.61


*SECNO 760.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  760.000     3.49  2374.79  2374.79      .00  2375.72      .93    13.49      .06  2374.50
     290.       0.     213.      77.       0.      26.      13.       4.       3.   2371.30
      .16     1.24     8.25     6.11     .060     .050     .060     .000  2371.30  9985.35
 .034122     410.     420.     430.       20       11        0      .00    23.08 10008.43


*SECNO 840.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  840.000     4.06  2410.06  2410.06      .00  2411.20     1.14    12.33      .06  2407.30
     290.      29.     248.      13.       6.      27.       4.       5.       3.   2408.10
      .17     4.45     9.10     3.62     .060     .050     .060     .000  2406.00  9995.31
 .025642     430.     420.     410.       20        8        0      .00    17.49 10012.80
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CNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
IE	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 910.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

910.000	3.16	2442.16	2442.16	.00	2443.15	.99	8.95	.02	2439.00
290.	81.	175.	34.	15.	19.	8.	5.	3.	2439.30
.19	5.40	9.38	4.39	.060	.050	.060	.000	2439.00	9997.20
.022969	360.	370.	380.	20	15	0	.00	21.53	10018.73

*SECNO 970.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

970.000	4.13	2489.43	2489.43	.00	2490.30	.87	8.18	.01	2486.60
290.	122.	84.	84.	22.	8.	14.	5.	3.	2485.30
.20	5.58	10.53	6.10	.060	.050	.060	.000	2485.30	9984.90
.028588	320.	320.	320.	20	11	0	.00	24.07	10008.97

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T2      FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LA027815.H2
        100 YEAR FLOOD FREQUENCY MODEL
T       WILLOW SPR. WASH, TRIB.1A (WST1A.DAT)

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

              4                          .02                                2207.34

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

     3                 -1
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q      QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
    IE    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*PROF 3

CCHV=     .100 CEHV=     .300
*SECNO 1520.000
3720 CRITICAL DEPTH ASSUMED
        *****REVISED STREAMFLOW VALUES ARE FROM CVCRK43R.OUT (CH2M-HEC1)
        COMMON SECTION IS SEC. 1520 FROM WILLOW SPR. WASH TRIB. 1.
        SEC. 000 = SEC. 1.536 ON WILLOW SPR. WASH TRIB.1.
        QT VALUES FROM SUBAREA F1B (0.16* CP F1)
        ABOVE VALUE IS USED THROUGHOUT ENTIRE STUDY REACH

 1520.000     2.44  2207.34  2207.34  2207.34  2208.12      .78      .00      .00  2208.10
    341.       0.     341.       0.       0.      48.       0.       0.       0.   2208.00
     .00      .00     7.07      .00     .000     .030     .000     .000  2204.90  9991.41
  .011825       0.       0.       0.        0        5        0      .00    31.44 10022.85


*SECNO 80.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   80.000     3.22  2215.62  2215.62      .00  2216.54      .92     8.10      .04  2212.40
    341.     217.     124.       0.      33.      13.       0.       1.       0.   2215.60
     .02     6.50     9.41      .05     .045     .030     .000     .000  2212.40  9979.26
  .020797     520.     530.     540.       10       11        0      .00    28.97 10008.23


*SECNO 150.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  150.000     2.90  2224.60  2224.60      .00  2225.41      .81     5.17      .01  2221.70
    341.     139.     178.      24.      33.      19.       8.       1.       1.   2222.90
     .03     4.21     9.20     2.94     .045     .028     .045     .000  2221.70  9977.20
  .010031     370.     370.     370.        3       11        0      .00    40.80 10018.00


*SECNO 200.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  200.000     2.24  2231.74  2231.74      .00  2232.60      .86     2.50      .02  2230.20
    341.       6.     305.      30.       3.      39.       9.       1.       1.   2229.50
     .04     2.49     7.78     3.33     .045     .028     .045     .000  2229.50  9976.04
  .009199     260.     260.     260.       20       15        0      .00    31.96 10008.01
```

```
 CNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  IE    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 LOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 260.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  260.000     2.95  2239.45  2239.45      .00  2240.42      .96     3.68      .03  2237.10
     341.      22.     284.      35.       6.      34.      10.       2.       1.   2237.50
      .06     3.76     8.47     3.51     .050     .040     .050     .000  2236.50  9984.15
  .014762     320.     320.     320.       20       11        0      .00    27.89 10012.04


*SECNO 330.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  330.000     3.21  2250.91  2250.91      .00  2252.03     1.12     5.53      .05  2248.30
     341.      45.     269.      27.      11.      29.       6.       2.       1.   2247.70
      .07     4.23     9.32     4.23     .050     .040     .050     .000  2247.70  9982.14
  .015124     390.     370.     350.       20        8        0      .00    22.01 10004.15


 O 390.000
 20 TRIALS ATTEMPTED WSEL,CWSEL
 ROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  390.000     3.65  2264.05  2264.05      .00  2264.94      .90     6.52      .02  2260.40
     341.     127.     214.       0.      19.      26.       0.       2.       1.   2264.60
      .08     6.60     8.13      .00     .055     .045     .000     .000  2260.40  9989.26
  .028887     320.     320.     320.       20        8        0      .00    25.19 10014.44


1490 NH CARD USED
*SECNO 440.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  440.000     2.74  2273.24  2273.24      .00  2274.02      .78     6.97      .01  2270.50
     341.     105.     230.       6.      20.      29.      19.       3.       2.   2272.40
      .09     5.33     7.84      .32     .055     .045     .640     .000  2270.50  9985.57
  .026216     240.     260.     280.        9       19        0      .00    55.59 10078.21
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```
 CNO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q       QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 1E      VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 520.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  520.000     3.43  2290.63  2290.63      .00  2291.50      .87    12.81      .03  2290.80
     341.       0.     216.     125.       0.      27.      19.       3.       2.   2287.20
      .11      .00     7.96     6.54     .000     .050     .060     .000  2287.20  9984.17
  .036045     440.     420.     400.       11       11        0      .00    26.94 10011.11


*SECNO 590.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  590.000     3.48  2308.98  2308.98      .00  2309.86      .87    13.12      .00  2305.50
     341.     103.     238.       0.      16.      30.       0.       4.       2.   2309.90
      .12     6.41     7.93      .00     .060     .050     .000     .000  2305.50  9990.79
  .034924     380.     370.     360.       10        5        0      .00    26.47 10017.25


*SECNO 680.000
 MINIMUM SPECIFIC ENERGY
 CRITICAL DEPTH ASSUMED
  .000     3.20  2342.20  2342.20      .00  2343.08      .88    16.46      .00  2339.60
  341.      96.     245.       0.      18.      30.       0.       4.       3.   2342.10
      .14     5.35     8.22      .05     .060     .050     .060     .000  2339.00  9986.21
  .033697     480.     480.     480.       10       11        0      .00    29.62 10015.82


*SECNO 760.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  760.000     3.73  2375.03  2375.03      .00  2376.03     1.00    13.77      .04  2374.50
     341.       1.     249.      91.       0.      29.      15.       5.       3.   2371.30
      .15     1.77     8.63     6.18     .060     .050     .060     .000  2371.30  9984.52
  .031939     410.     420.     430.       13       11        0      .00    24.60 10009.11


*SECNO 840.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  840.000     4.34  2410.34  2410.34      .00  2411.58     1.25    11.89      .07  2407.30
     341.      37.     285.      19.       8.      30.       5.       5.       3.   2408.10
      .17     4.72     9.60     3.93     .060     .050     .060     .000  2406.00  9994.84
  .025386     430.     420.     410.       20       11        0      .00    18.50 10013.33
```

CNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
IE	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 910.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

910.000	3.41	2442.41	2442.41	.00	2443.47	1.06	8.83	.02	2439.00
341.	100.	199.	42.	18.	20.	9.	5.	3.	2439.30
.18	5.69	9.82	4.61	.060	.050	.060	.000	2439.00	9996.27
.022621	360.	370.	380.	20	15	0	.00	22.94	10019.21

*SECNO 970.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

970.000	4.41	2489.71	2489.71	.00	2490.58	.88	7.80	.02	2486.60
341.	153.	92.	96.	26.	9.	16.	6.	3.	2485.30
.19	5.87	10.63	6.12	.060	.050	.060	.000	2485.30	9983.67
.026352	320.	320.	320.	20	11	0	.00	25.96	10009.63

```
     FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LA027815.H2
T2   500 YEAR FLOOD FREQUENCY MODEL
T    WILLOW SPR. WASH TRIB.1A (WST1A.DAT)

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

              5                          .02                                2207.64

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

    15                 -1
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 ECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
 Q       QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
  ME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 LOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*PROF 4

CCHV=     .100 CEHV=     .300
*SECNO 1520.000
3720 CRITICAL DEPTH ASSUMED
        *****REVISED STREAMFLOW VALUES ARE FROM CVCRK43R.OUT (CH2M-HEC1)
        COMMON SECTION IS SEC. 1520 FROM WILLOW SPR. WASH TRIB. 1.
        SEC. 000 = SEC. 1.536 ON WILLOW SPR. WASH TRIB.1.
        QT VALUES FROM SUBAREA F1B (0.16* CP F1)
        ABOVE VALUE IS USED THROUGHOUT ENTIRE STUDY REACH

 1520.000     2.74  2207.64  2207.64  2207.64  2208.49      .85      .00      .00  2208.10
    431.       0.     431.       0.       0.      58.       0.       0.       0.   2208.00
     .00      .00     7.39      .00     .000     .030     .000     .000  2204.90  9989.61
  .011481       0.       0.       0.        0        5        0      .00    34.79 10024.39


*SECNO 80.000
7185 MINIMUM SPECIFIC ENERGY
     CRITICAL DEPTH ASSUMED
    0.000     3.61  2216.01  2216.01      .00  2216.98      .98     7.40      .04  2212.40
    431.      269.     162.       1.      42.      16.       0.       1.       0.   2215.60
     .02     6.43     9.94     1.49     .045     .030     .045     .000  2212.40  9976.81
  .017550     520.     530.     540.       10       11        0      .00    33.48 10010.29


*SECNO 150.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  150.000     3.23  2224.93  2224.93      .00  2225.80      .87     4.64      .01  2221.70
    431.      179.     215.      37.      41.      22.      12.       1.       1.   2222.90
     .03     4.38     9.73     3.20     .045     .028     .045     .000  2221.70  9974.63
  .009396     370.     370.     370.       12        8        0      .00    45.21 10019.85


*SECNO 200.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  200.000     2.54  2232.04  2232.04      .00  2233.03      .99     2.37      .04  2230.20
    431.       10.     380.      41.       4.      45.      12.       2.       1.   2229.50
     .04     2.74     8.40     3.55     .045     .028     .045     .000  2229.50  9975.42
  .008820     260.     260.     260.       20       15        0      .00    33.65 10009.07
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q      QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
    IE    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 260.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  260.000     3.32  2239.82  2239.82      .00  2240.88     1.06     3.52      .02  2237.10
     431.      32.     346.      54.       8.      38.      14.       2.       1.   2237.50
      .05     4.05     9.03     3.85     .050     .040     .050     .000  2236.50  9983.37
  .014082     320.     320.     320.       20       11        0      .00    30.57 10013.95


*SECNO 330.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  330.000     3.63  2251.33  2251.33      .00  2252.58     1.25     5.27      .06  2248.30
     431.      66.     329.      36.      14.      33.       8.       3.       1.   2247.70
      .07     4.56     9.95     4.48     .050     .040     .050     .000  2247.70  9980.82
  .014392     390.     370.     350.       20        8        0      .00    23.86 10004.67


 SECNO 390.000
3[illegible] 20 TRIALS ATTEMPTED WSEL,CWSEL
3[illegible] PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  390.000     4.01  2264.41  2264.41      .00  2265.37      .97     6.14      .03  2260.40
     431.     165.     266.       0.      23.      32.       0.       3.       2.   2264.60
      .08     7.07     8.36      .00     .055     .045     .000     .000  2260.40  9987.89
  .026849     320.     320.     320.       20        8        0      .00    28.03 10015.92


1490 NH CARD USED
*SECNO 440.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  440.000     3.03  2273.53  2273.53      .00  2274.39      .86     6.46      .01  2270.50
     431.     133.     285.      13.      24.      34.      27.       3.       2.   2272.40
      .09     5.48     8.34      .48     .055     .045     .452     .000  2270.50  9984.01
  .024203     240.     260.     280.       11       19        0      .00    62.46 10079.85
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q      QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   IE     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 520.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  520.000     3.72  2290.92  2290.92      .00  2291.93     1.01    12.33      .05  2290.80
     431.       0.     275.     156.       0.      32.      22.       4.       2.   2287.20
      .10      .72     8.64     6.95     .060     .050     .060     .000  2287.20  9981.39
  .036543     440.     420.     400.       12       11        0      .00    30.65 10012.04


*SECNO 590.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  590.000     3.80  2309.30  2309.30      .00  2310.28      .98    13.17      .00  2305.50
     431.     130.     301.       0.      19.      36.       0.       5.       3.   2309.90
      .11     6.78     8.40      .00     .060     .050     .000     .000  2305.50  9989.93
  .034763     380.     370.     360.       11        8        0      .00    28.92 10018.85


*SECNO 680.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  680.000     3.54  2342.54  2342.54      .00  2343.50      .96    15.48      .00  2339.60
     431.     126.     305.       0.      23.      35.       0.       5.       3.   2342.10
      .13     5.48     8.66     1.33     .060     .050     .060     .000  2339.00  9984.38
  .029989     480.     480.     480.       11       12        0      .00    31.88 10016.26


*SECNO 760.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  760.000     4.10  2375.40  2375.40      .00  2376.51     1.11    12.41      .05  2374.50
     431.       4.     312.     115.       1.      34.      18.       6.       3.   2371.30
      .15     2.42     9.18     6.29     .060     .050     .060     .000  2371.30  9983.18
  .029124     410.     420.     430.       20       11        0      .00    27.04 10010.21


*SECNO 840.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  840.000     4.81  2410.81  2410.81      .00  2412.19     1.38    11.09      .08  2407.30
     431.      53.     347.      31.      10.      34.       7.       6.       3.   2408.10
      .16     5.07    10.23     4.35     .060     .050     .060     .000  2406.00  9994.04
  .024144     430.     420.     410.       20       11        0      .00    20.21 10014.25
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 ECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
  Q      QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   IE    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 910.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  910.000     3.82  2442.82  2442.82      .00  2443.98     1.17     8.49      .02  2439.00
     431.     135.     238.      58.      22.      23.      12.       7.       4.   2439.30
      .17     6.08    10.46     4.93     .060     .050     .060     .000  2439.00  9994.78
  .021966     360.     370.     380.       20       15        0      .00    25.20 10019.97


*SECNO 970.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  970.000     4.84  2490.14  2490.14      .00  2490.97      .83     7.13      .03  2486.60
     431.     205.     102.     124.      34.      10.      22.       7.       4.   2485.30
      .18     6.11    10.59     5.70     .060     .050     .060     .000  2485.30  9981.72
  .022611     320.     320.     320.       20       11        0      .00    41.09 10022.82
```

THIS RUN EXECUTED 3/ 8/90 17: 8:17

****
HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989

ERROR CORR - 01,02,03
MODIFICATION -
****

NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

WILLOW SPR. WASH, TRIB.

SUMMARY PRINTOUT

	SECNO	CWSEL	Q	DEPTH	VLOB	VCH	VROB	QLOB	QCH	QROB	TOPWID	10*KS	DIFWSX
*	1520.000	2206.69	192.00	1.79	.00	6.35	.00	.00	192.00	.00	24.36	126.81	.00
*	1520.000	2207.14	290.00	2.24	.00	6.86	.00	.00	290.00	.00	29.30	120.47	.00
*	1520.000	2207.34	341.00	2.44	.00	7.07	.00	.00	341.00	.00	31.44	118.25	.00
	1520.000	2207.64	431.00	2.74	.00	7.39	.00	.00	431.00	.00	34.79	114.81	.00
*	80.000	2215.01	192.00	2.61	5.59	8.05	.00	122.54	69.46	.00	23.41	203.65	8.32
*	80.000	2215.50	290.00	3.10	5.98	8.61	.00	185.08	104.92	.00	27.81	185.31	8.36
*	80.000	2215.62	341.00	3.22	6.50	9.41	.05	217.24	123.76	.00	28.97	207.97	8.29
*	80.000	2216.01	431.00	3.61	6.43	9.94	1.49	268.81	161.53	.66	33.48	175.50	8.36
*	150.000	2223.95	192.00	2.25	3.82	7.91	2.28	75.66	109.29	7.04	31.96	115.82	8.93
*	150.000	2224.40	290.00	2.70	4.09	8.81	2.75	117.13	155.41	17.46	38.09	103.98	8.90
*	150.000	2224.60	341.00	2.90	4.21	9.20	2.94	139.29	177.73	23.97	40.80	100.31	8.98
*	150.000	2224.93	431.00	3.23	4.38	9.73	3.20	179.24	214.67	37.09	45.21	93.96	8.92
*	200.000	2231.15	192.00	1.65	1.95	6.54	2.93	1.85	175.91	14.24	28.59	107.37	7.20
*	200.000	2231.55	290.00	2.05	2.33	7.42	3.21	4.50	261.35	24.16	30.88	96.29	7.15
*	200.000	2231.74	341.00	2.24	2.49	7.78	3.33	6.25	304.84	29.91	31.96	91.99	7.14
*	200.000	2232.04	431.00	2.54	2.74	8.40	3.55	9.78	380.43	40.79	33.65	88.20	7.11
*	260.000	2238.70	192.00	2.20	3.11	7.22	2.71	8.42	173.36	10.22	22.43	168.11	7.56
*	260.000	2239.22	290.00	2.72	3.57	8.09	3.28	16.91	247.83	25.26	26.21	152.26	7.67
*	260.000	2239.45	341.00	2.95	3.76	8.47	3.51	21.91	284.35	34.74	27.89	147.62	7.71
*	260.000	2239.82	431.00	3.32	4.05	9.03	3.85	31.52	345.69	53.78	30.57	140.82	7.78
*	330.000	2250.07	192.00	2.37	3.47	7.90	3.68	16.98	162.32	12.71	18.35	171.02	11.37
*	330.000	2250.65	290.00	2.95	4.00	8.89	4.07	34.50	233.75	21.75	20.87	156.34	11.43
*	330.000	2250.91	341.00	3.21	4.23	9.32	4.23	45.03	269.11	26.86	22.01	151.24	11.46
*	330.000	2251.33	431.00	3.63	4.56	9.95	4.48	65.56	328.99	36.45	23.86	143.92	11.51
	390.000	2263.28	192.00	2.88	6.00	7.37	.00	71.89	120.11	.00	19.84	327.33	13.21
*	390.000	2263.81	290.00	3.41	6.41	7.89	.00	108.07	181.92	.00	23.58	297.37	13.17
*	390.000	2264.05	341.00	3.65	6.60	8.13	.00	126.87	214.13	.00	25.19	288.87	13.13
*	390.000	2264.41	431.00	4.01	7.07	8.36	.00	164.54	266.46	.00	28.03	268.49	13.07

	SECNO	CWSEL	Q	DEPTH	VLOB	VCH	VROB	QLOB	QCH	QROB	TOPWID	10*KS	DIFWSX
*	40.000	2272.64	192.00	2.14	5.07	6.70	.03	61.15	130.60	.25	41.70	330.42	9.36
*	440.000	2273.05	290.00	2.55	5.24	7.51	.22	89.83	196.98	3.19	51.26	278.67	9.24
*	440.000	2273.24	341.00	2.74	5.33	7.84	.32	105.23	229.71	6.06	55.59	262.16	9.19
*	440.000	2273.53	431.00	3.03	5.48	8.34	.48	132.98	284.99	13.03	62.46	242.03	9.13
*	520.000	2289.92	192.00	2.72	.00	7.14	5.86	.00	121.79	70.21	21.35	394.79	17.28
*	520.000	2290.40	290.00	3.20	.00	7.77	6.38	.00	183.95	106.05	25.16	375.68	17.35
*	520.000	2290.63	341.00	3.43	.00	7.96	6.54	.00	216.30	124.69	26.94	360.45	17.40
*	520.000	2290.92	431.00	3.72	.72	8.64	6.95	.09	275.33	155.58	30.65	365.43	17.39
*	590.000	2308.27	192.00	2.77	5.70	7.06	.00	57.87	134.13	.00	21.05	375.53	18.35
*	590.000	2308.77	290.00	3.27	6.19	7.67	.00	87.40	202.60	.00	24.83	355.32	18.36
*	590.000	2308.98	341.00	3.48	6.41	7.93	.00	102.77	238.23	.00	26.47	349.24	18.35
*	590.000	2309.30	431.00	3.80	6.78	8.40	.00	129.90	301.10	.00	28.92	347.63	18.39
*	680.000	2341.58	192.00	2.58	4.43	7.04	.00	46.16	145.84	.00	24.13	331.60	33.31
*	680.000	2342.08	290.00	3.08	4.92	7.50	.00	80.18	209.82	.00	28.78	302.94	33.31
*	680.000	2342.20	341.00	3.20	5.35	8.22	.05	95.72	245.27	.00	29.62	336.97	33.21
*	680.000	2342.54	431.00	3.54	5.48	8.66	1.33	125.74	305.10	.16	31.88	299.89	33.23
*	760.000	2374.33	192.00	3.03	.00	7.21	5.63	.00	140.91	51.09	19.97	349.59	32.75
*	760.000	2374.79	290.00	3.49	1.24	8.25	6.11	.19	212.56	77.25	23.08	341.22	32.72
*	760.000	2375.03	341.00	3.73	1.77	8.63	6.18	.88	249.46	90.66	24.60	319.39	32.83
	760.000	2375.40	431.00	4.10	2.42	9.18	6.29	3.52	312.27	115.20	27.04	291.24	32.86
*	840.000	2409.39	192.00	3.39	3.92	8.17	2.90	14.53	172.82	4.65	15.04	289.13	35.05
*	840.000	2410.06	290.00	4.06	4.45	9.10	3.62	28.84	247.69	13.46	17.49	256.42	35.27
*	840.000	2410.34	341.00	4.34	4.72	9.60	3.93	36.99	285.00	19.02	18.50	253.86	35.31
*	840.000	2410.81	431.00	4.81	5.07	10.23	4.35	52.98	347.14	30.88	20.21	241.44	35.40
*	910.000	2441.60	192.00	2.60	4.59	8.35	3.87	45.89	126.68	19.43	18.40	239.29	32.21
*	910.000	2442.16	290.00	3.16	5.40	9.38	4.39	80.90	175.03	34.07	21.53	229.69	32.10
*	910.000	2442.41	341.00	3.41	5.69	9.82	4.61	100.07	198.59	42.34	22.94	226.21	32.08
*	910.000	2442.82	431.00	3.82	6.08	10.46	4.93	135.36	237.83	57.81	25.20	219.66	32.01
*	970.000	2488.84	192.00	3.54	4.80	9.98	5.90	65.73	66.44	59.83	20.23	328.92	47.25
*	970.000	2489.43	290.00	4.13	5.58	10.53	6.10	121.54	84.37	84.09	24.07	285.88	47.27
*	970.000	2489.71	341.00	4.41	5.87	10.63	6.12	153.25	91.87	95.88	25.96	263.52	47.30
*	970.000	2490.14	431.00	4.84	6.11	10.59	5.70	205.17	102.08	123.75	41.09	226.11	47.33

LOW SPR. WASH, TRIB.

S :Y PRINTOUT TABLE 150

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
*	1520.000	.00	.00	.00	2204.90	192.00	2206.69	2206.69	2207.32	126.81	6.35	30.21	17.05
*	1520.000	.00	.00	.00	2204.90	290.00	2207.14	2207.14	2207.87	120.47	6.86	42.30	26.42
*	1520.000	.00	.00	.00	2204.90	341.00	2207.34	2207.34	2208.12	118.25	7.07	48.21	31.36
*	1520.000	.00	.00	.00	2204.90	431.00	2207.64	2207.64	2208.49	114.81	7.39	58.29	40.23
*	80.000	530.00	.00	.00	2212.40	192.00	2215.01	2215.01	2215.68	203.65	8.05	30.57	13.45
*	80.000	530.00	.00	.00	2212.40	290.00	2215.50	2215.50	2216.27	185.31	8.61	43.15	21.30
*	80.000	530.00	.00	.00	2212.40	341.00	2215.62	2215.62	2216.54	207.97	9.41	46.60	23.65
*	80.000	530.00	.00	.00	2212.40	431.00	2216.01	2216.01	2216.98	175.50	9.94	58.50	32.53
*	150.000	370.00	.00	.00	2221.70	192.00	2223.95	2223.95	2224.59	115.82	7.91	36.72	17.84
*	150.000	370.00	.00	.00	2221.70	290.00	2224.40	2224.40	2225.16	103.98	8.81	52.62	28.44
*	150.000	370.00	.00	.00	2221.70	341.00	2224.60	2224.60	2225.41	100.31	9.20	60.53	34.05
*	150.000	370.00	.00	.00	2221.70	431.00	2224.93	2224.93	2225.80	93.96	9.73	74.59	44.46
*	200.000	260.00	.00	.00	2229.50	192.00	2231.15	2231.15	2231.77	107.37	6.54	32.69	18.53
*	200.000	260.00	.00	.00	2229.50	290.00	2231.55	2231.55	2232.34	96.29	7.42	44.67	29.55
*	200.000	260.00	.00	.00	2229.50	341.00	2231.74	2231.74	2232.60	91.99	7.78	50.65	35.55
*	200.000	260.00	.00	.00	2229.50	431.00	2232.04	2232.04	2233.03	88.20	8.40	60.37	45.89
*	260.000	320.00	.00	.00	2236.50	192.00	2238.70	2238.70	2239.45	168.11	7.22	30.47	14.81
*	260.000	320.00	.00	.00	2236.50	290.00	2239.22	2239.22	2240.12	152.26	8.09	43.08	23.50
*	260.000	320.00	.00	.00	2236.50	341.00	2239.45	2239.45	2240.42	147.62	8.47	49.30	28.07
*	260.000	320.00	.00	.00	2236.50	431.00	2239.82	2239.82	2240.88	140.82	9.03	60.06	36.32
*	330.000	370.00	.00	.00	2247.70	192.00	2250.07	2250.07	2250.92	171.02	7.90	28.91	14.68
*	330.000	370.00	.00	.00	2247.70	290.00	2250.65	2250.65	2251.69	156.34	8.89	40.25	23.19
*	330.000	370.00	.00	.00	2247.70	341.00	2250.91	2250.91	2252.03	151.24	9.32	45.88	27.73
*	330.000	370.00	.00	.00	2247.70	431.00	2251.33	2251.33	2252.58	143.92	9.95	55.59	35.93
*	390.000	320.00	.00	.00	2260.40	192.00	2263.28	2263.28	2264.02	327.33	7.37	28.27	10.61
*	390.000	320.00	.00	.00	2260.40	290.00	2263.81	2263.81	2264.66	297.37	7.89	39.91	16.82
*	390.000	320.00	.00	.00	2260.40	341.00	2264.05	2264.05	2264.94	288.87	8.13	45.55	20.06
*	390.000	320.00	.00	.00	2260.40	431.00	2264.41	2264.41	2265.37	268.49	8.36	55.15	26.30
*	440.000	260.00	.00	.00	2270.50	192.00	2272.64	2272.64	2273.24	330.42	6.70	38.76	10.56
*	440.000	260.00	.00	.00	2270.50	290.00	2273.05	2273.05	2273.78	278.67	7.51	57.90	17.37
*	440.000	260.00	.00	.00	2270.50	341.00	2273.24	2273.24	2274.02	262.16	7.84	67.89	21.06
*	440.000	260.00	.00	.00	2270.50	431.00	2273.53	2273.53	2274.39	242.03	8.34	85.37	27.70
*	520.000	420.00	.00	.00	2287.20	192.00	2289.92	2289.92	2290.62	394.79	7.14	29.04	9.66
*	520.000	420.00	.00	.00	2287.20	290.00	2290.40	2290.40	2291.23	375.68	7.77	40.31	14.96
*	520.000	420.00	.00	.00	2287.20	341.00	2290.63	2290.63	2291.50	360.45	7.96	46.23	17.96
*	520.000	420.00	.00	.00	2287.20	431.00	2290.92	2290.92	2291.93	365.43	8.64	54.38	22.55

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
*	590.000	370.00	.00	.00	2305.50	192.00	2308.27	2308.27	2308.96	375.53	7.06	29.15	9.91
*	590.000	370.00	.00	.00	2305.50	290.00	2308.77	2308.77	2309.58	355.32	7.67	40.54	15.38
*	590.000	370.00	.00	.00	2305.50	341.00	2308.98	2308.98	2309.86	349.24	7.93	46.08	18.25
*	590.000	370.00	.00	.00	2305.50	431.00	2309.30	2309.30	2310.28	347.63	8.40	55.02	23.12
*	680.000	480.00	.00	.00	2339.00	192.00	2341.58	2341.58	2342.24	331.60	7.04	31.15	10.54
*	680.000	480.00	.00	.00	2339.00	290.00	2342.08	2342.08	2342.81	302.94	7.50	44.30	16.66
*	680.000	480.00	.00	.00	2339.00	341.00	2342.20	2342.20	2343.08	336.97	8.22	47.75	18.58
*	680.000	480.00	.00	.00	2339.00	431.00	2342.54	2342.54	2343.50	299.89	8.66	58.29	24.89
*	760.000	420.00	.00	.00	2371.30	192.00	2374.33	2374.33	2375.06	349.59	7.21	28.63	10.27
*	760.000	420.00	.00	.00	2371.30	290.00	2374.79	2374.79	2375.72	341.22	8.25	38.55	15.70
*	760.000	420.00	.00	.00	2371.30	341.00	2375.03	2375.03	2376.03	319.39	8.63	44.09	19.08
*	760.000	420.00	.00	.00	2371.30	431.00	2375.40	2375.40	2376.51	291.24	9.18	53.78	25.26
*	840.000	420.00	.00	.00	2406.00	192.00	2409.39	2409.39	2410.34	289.13	8.17	26.45	11.29
*	840.000	420.00	.00	.00	2406.00	290.00	2410.06	2410.06	2411.20	256.42	9.10	37.41	18.11
*	840.000	420.00	.00	.00	2406.00	341.00	2410.34	2410.34	2411.58	253.86	9.60	42.36	21.40
*	840.000	420.00	.00	.00	2406.00	431.00	2410.81	2410.81	2412.19	241.44	10.23	51.47	27.74
*	910.000	370.00	.00	.00	2439.00	192.00	2441.60	2441.60	2442.41	239.29	8.35	30.20	12.41
*	910.000	370.00	.00	.00	2439.00	290.00	2442.16	2442.16	2443.15	229.69	9.38	41.39	19.13
*	910.000	370.00	.00	.00	2439.00	341.00	2442.41	2442.41	2443.47	226.21	9.82	46.99	22.67
*	910.000	370.00	.00	.00	2439.00	431.00	2442.82	2442.82	2443.98	219.66	10.46	56.73	29.08
*	970.000	320.00	.00	.00	2485.30	192.00	2488.84	2488.84	2489.67	328.92	9.98	30.49	10.59
*	970.000	320.00	.00	.00	2485.30	290.00	2489.43	2489.43	2490.30	285.88	10.53	43.60	17.15
*	970.000	320.00	.00	.00	2485.30	341.00	2489.71	2489.71	2490.58	263.52	10.63	50.41	21.01
*	970.000	320.00	.00	.00	2485.30	431.00	2490.14	2490.14	2490.97	226.11	10.59	64.93	28.66

OW SPR. WASH, TRIB.

S :Y PRINTOUT TABLE 150

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	1520.000	192.00	2206.69	.00	.00	.00	24.36	.00
*	1520.000	290.00	2207.14	.45	.00	.00	29.30	.00
*	1520.000	341.00	2207.34	.19	.00	.00	31.44	.00
*	1520.000	431.00	2207.64	.30	.00	.00	34.79	.00
*	80.000	192.00	2215.01	.00	8.32	.00	23.41	530.00
*	80.000	290.00	2215.50	.49	8.36	.00	27.81	530.00
*	80.000	341.00	2215.62	.12	8.29	.00	28.97	530.00
*	80.000	431.00	2216.01	.38	8.36	.00	33.48	530.00
*	150.000	192.00	2223.95	.00	8.93	.00	31.96	370.00
*	150.000	290.00	2224.40	.45	8.90	.00	38.09	370.00
*	150.000	341.00	2224.60	.20	8.98	.00	40.80	370.00
*	150.000	431.00	2224.93	.33	8.92	.00	45.21	370.00
*	200.000	192.00	2231.15	.00	7.20	.00	28.59	260.00
*	200.000	290.00	2231.55	.40	7.15	.00	30.88	260.00
*	200.000	341.00	2231.74	.19	7.14	.00	31.96	260.00
	200.000	431.00	2232.04	.30	7.11	.00	33.65	260.00
*	260.000	192.00	2238.70	.00	7.56	.00	22.43	320.00
*	260.000	290.00	2239.22	.52	7.67	.00	26.21	320.00
*	260.000	341.00	2239.45	.23	7.71	.00	27.89	320.00
*	260.000	431.00	2239.82	.37	7.78	.00	30.57	320.00
*	330.000	192.00	2250.07	.00	11.37	.00	18.35	370.00
*	330.000	290.00	2250.65	.58	11.43	.00	20.87	370.00
*	330.000	341.00	2250.91	.26	11.46	.00	22.01	370.00
*	330.000	431.00	2251.33	.42	11.51	.00	23.86	370.00
*	390.000	192.00	2263.28	.00	13.21	.00	19.84	320.00
*	390.000	290.00	2263.81	.54	13.17	.00	23.58	320.00
*	390.000	341.00	2264.05	.23	13.13	.00	25.19	320.00
*	390.000	431.00	2264.41	.36	13.07	.00	28.03	320.00
*	440.000	192.00	2272.64	.00	9.36	.00	41.70	260.00
*	440.000	290.00	2273.05	.41	9.24	.00	51.26	260.00
*	440.000	341.00	2273.24	.19	9.19	.00	55.59	260.00
*	440.000	431.00	2273.53	.30	9.13	.00	62.46	260.00
*	520.000	192.00	2289.92	.00	17.28	.00	21.35	420.00
*	520.000	290.00	2290.40	.48	17.35	.00	25.16	420.00
*	520.000	341.00	2290.63	.23	17.40	.00	26.94	420.00
*	520.000	431.00	2290.92	.29	17.39	.00	30.65	420.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	590.000	192.00	2308.27	.00	18.35	.00	21.05	370.00
*	590.000	290.00	2308.77	.50	18.36	.00	24.83	370.00
*	590.000	341.00	2308.98	.22	18.35	.00	26.47	370.00
*	590.000	431.00	2309.30	.32	18.39	.00	28.92	370.00
*	680.000	192.00	2341.58	.00	33.31	.00	24.13	480.00
*	680.000	290.00	2342.08	.50	33.31	.00	28.78	480.00
*	680.000	341.00	2342.20	.12	33.21	.00	29.62	480.00
*	680.000	431.00	2342.54	.34	33.23	.00	31.88	480.00
*	760.000	192.00	2374.33	.00	32.75	.00	19.97	420.00
*	760.000	290.00	2374.79	.46	32.72	.00	23.08	420.00
*	760.000	341.00	2375.03	.23	32.83	.00	24.60	420.00
*	760.000	431.00	2375.40	.38	32.86	.00	27.04	420.00
*	840.000	192.00	2409.39	.00	35.05	.00	15.04	420.00
*	840.000	290.00	2410.06	.67	35.27	.00	17.49	420.00
*	840.000	341.00	2410.34	.28	35.31	.00	18.50	420.00
*	840.000	431.00	2410.81	.47	35.40	.00	20.21	420.00
*	910.000	192.00	2441.60	.00	32.21	.00	18.40	370.00
*	910.000	290.00	2442.16	.56	32.10	.00	21.53	370.00
*	910.000	341.00	2442.41	.25	32.08	.00	22.94	370.00
*	910.000	431.00	2442.82	.40	32.01	.00	25.20	370.00
*	970.000	192.00	2488.84	.00	47.25	.00	20.23	320.00
*	970.000	290.00	2489.43	.59	47.27	.00	24.07	320.00
*	970.000	341.00	2489.71	.27	47.30	.00	25.96	320.00
*	970.000	431.00	2490.14	.43	47.33	.00	41.09	320.00

ARY OF ERRORS AND SPECIAL NOTES

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CAUTION SECNO=   1520.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1520.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1520.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1520.000  PROFILE=  4  CRITICAL DEPTH ASSUMED

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CAUTION SECNO=     80.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     80.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
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CAUTION SECNO=     80.000  PROFILE=  3  MINIMUM SPECIFIC ENERGY
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CAUTION SECNO=    150.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    150.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    150.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    150.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    150.000  PROFILE=  3  MINIMUM SPECIFIC ENERGY
ION SECNO=    150.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
ION SECNO=    150.000  PROFILE=  4  MINIMUM SPECIFIC ENERGY

ON SECNO=    200.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    200.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    200.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    200.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    200.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    200.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    200.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    200.000  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    200.000  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    200.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
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CAUTION SECNO=    200.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=    260.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
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CAUTION SECNO=    260.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    260.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    260.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    260.000  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    260.000  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    260.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    260.000  PROFILE=  4  PROBABLE MINIMUM SPECIFIC ENERGY
ION SECNO=    260.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

ON SECNO=    330.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
ON SECNO=    330.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    330.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
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CAUTION SECNO=   330.000  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   330.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
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CAUTION SECNO=   330.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

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CAUTION SECNO=   390.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   390.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   390.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   390.000  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   390.000  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   390.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   390.000  PROFILE=  4  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   390.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

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CAUTION SECNO=   440.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
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C[illegible]ON SECNO=   440.000  PROFILE=  4  MINIMUM SPECIFIC ENERGY

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CAUTION SECNO=   520.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   520.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
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CAUTION SECNO=   520.000  PROFILE=  4  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=   590.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   590.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   590.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   590.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   590.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   590.000  PROFILE=  3  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   590.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   590.000  PROFILE=  4  MINIMUM SPECIFIC ENERGY

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CAUTION SECNO=   680.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
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CAUTION SECNO=   760.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   760.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
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CAUTION SECNO=   840.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   840.000  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   840.000  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   840.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   840.000  PROFILE=  4  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   840.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

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[illegible]ON SECNO=   910.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
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CAUTION SECNO=   910.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
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CAUTION SECNO=   910.000  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   910.000  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   910.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   910.000  PROFILE=  4  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   910.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=   970.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
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CAUTION SECNO=   970.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
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CAUTION SECNO=   970.000  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
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CAUTION SECNO=   970.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL
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*****************************************************
*  WATER SURFACE PROFILES                           *
*  VERSION OF SEPTEMBER 1988                        *
*  ERROR: 01,02,03                                  *
*  UPDATED:  SEPTEMBER 1989                         *
*  RUN DATE     3/10/90    TIME    15:45: 8         *
*****************************************************
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****************************************
*  U.S. ARMY CORPS OF ENGINEERS
*  THE HYDROLOGIC ENGINEERING CENTER
*  609 SECOND STREET, SUITE D
*  DAVIS, CALIFORNIA 95616-4687
*            (916) 756-1104
****************************************
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WSTIA.MC

METH. 1

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X     X  XXXXXXX   XXXXX              XXXXX
X     X  X       X     X            X     X
X     X  X       X                        X
XXXXXXX  XXXX    X         XXXXX    XXXXX
X     X  X       X                  X
X     X  X       X     X            X
X     X  XXXXXXX   XXXXX             XXXXXXX
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END OF BANNER

THIS RUN EXECUTED 3/10/90 15:45: 8

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**************************************************
  HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989


  ERROR CORR -  01,02,03
  MODIFICATION -
**************************************************


T1       FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LA027815.H2
T2       100-YEAR FLOOD FREQUENCY MODEL (NATURAL CONDITIONS)
T3       WILLOW SPR. TRIB. 1A (WST1A.MCE)

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

               2                           .02                                   2207.34

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

     1                  -1


    VARIABLE CODES FOR SUMMARY PRINTOUT

    38        43        26         8        42        39         1        34         4        53
    21        22        54         0        38        43         1        50        51        27
    21        22        28         5         3        61       200

J5  LPRNT    NUMSEC                    ********REQUESTED SECTION NUMBERS********

   -10       -10

QT       2       341       341
NC     .04       .04       .03        .1        .3
ET                         9.1                                                        9997.0    10022.0
        THIS ENCROACHMENT MODEL IS BASED ON 100-YEAR NATURAL CONDITIONS.
        REFER TO FILE WST1A.OUT (CH2M HILL, 1990)

X1     1520        25    9986.9   10026.2
GR   2222.7    9838.8    2219.2    9892.9    2215.4    9932.7    2210.6    9962.1    2210.8    9966.2
GR   2208.1    9986.9    2206.7    9995.2    2204.9   10000.0    2205.1   10011.5    2208.0   10026.2
GR   2209.7   10052.0    2211.9   10066.8    2211.0   10074.7    2213.7   10088.2    2213.0   10126.5
GR   2213.0   10137.2    2213.5   10163.6    2213.6   10199.0    2214.0   10240.2    2215.3   10284.3
GR   2217.2   10337.3    2217.9   10386.5    2221.3   10431.9    2221.8   10476.8    2222.3   10489.1

ET                         9.1                                                        9993.9    10008.0
NC    .045      .045      .03
X1      80        14   10000.0   10008.1       520       540       530
GR   2233.7    9716.1    2232.4    9727.9    2230.8    9775.2    2224.9    9831.5    2224.1    9887.6
GR   2223.3    9923.8    2221.9    9954.8    2216.1    9976.2    2212.4   10000.0    2215.6   10008.1
GR   2220.3   10033.5    2222.5   10048.3    2225.8   10092.6    2231.3   10152.7
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ET			9.1						9994.5	10008.4
NC			.028							
X1	150	16	10000.0	10008.4	370	370	370			
GR	2242.1	9757.5	2238.3	9790.6	2234.2	9845.5	2233.7	9887.2	2232.9	9908.5
GR	2231.5	9916.2	2226.8	9935.8	2225.3	9971.7	2221.7	10000.0	2222.9	10008.4
GR	2226.6	10029.3	2227.3	10058.1	2231.2	10087.9	2232.9	10099.7	2238.9	10123.6
GR	2243.8	10157.5								
ET			9.1						9979.3	10000.0
X1	200	15	9979.3	10000.0	260	260	260			
GR	2248.2	9730.0	2246.2	9750.9	2243.1	9809.7	2240.1	9860.4	2238.7	9904.4
GR	2235.5	9955.9	2232.9	9973.6	2230.2	9979.3	2229.5	10000.0	2232.3	10010.0
GR	2232.9	10013.5	2238.0	10032.6	2244.1	10056.6	2249.7	10111.9	2252.1	10144.8
ET			9.1						9989.1	10001.9
NC	.05	.05	.04							
X1	260	13	9989.1	10001.9	320	320	320			
GR	2256.7	9913.2	2252.9	9927.2	2248.4	9950.2	2244.7	9973.1	2237.1	9989.1
GR	2236.5	10000.0	2237.5	10001.9	2241.7	10023.7	2246.2	10045.3	2248.3	10049.6
GR	2248.3	10081.7	2252.3	10126.2	2254.4	10167.3				
ET			9.1						9990.3	10000.2
X1	330	10	9990.3	10000.2	390	350	370			
	2268.7	9936.9	2265.3	9946.4	2256.3	9965.3	2248.3	9990.3	2247.7	10000.0
	2247.7	10000.2	2255.5	10009.8	2258.9	10028.3	2262.9	10049.6	2268.3	10077.9
ET			9.1						9999.2	10013.0
NC	.055	.055	.045							
X1	390	16	9999.8	10016.7	320	320	320			
GR	2278.7	9920.4	2276.6	9924.2	2274.7	9943.3	2273.2	9948.4	2268.1	9968.3
GR	2266.2	9980.8	2264.1	9989.1	2260.4	9999.8	2260.5	10000.0	2264.6	10016.7
GR	2269.0	10037.7	2272.9	10061.8	2274.3	10100.5	2279.2	10146.5	2287.2	10185.8
GR	2287.4	10201.7								
ET			9.1						9999.9	10016.4
NH	4	.055	10000.0	.045	10016.4	.055	10050.0	99	10242.0	
X1	440	13	10000.0	10016.4	240	280	260			
GR	2290.0	9912.2	2288.0	9916.6	2281.8	9943.1	2276.0	9971.0	2270.5	10000.0
GR	2272.4	10016.4	2275.1	10035.5	2275.0	10050.0	2271.5	10068.6	2275.8	10092.4
GR	2282.0	10135.8	2284.3	10189.2	2289.9	10242.0				
ET			9.1						9985.0	10000.4
NC	.06	.06	.05							
X1	520	10	9983.4	10000.0	440	400	420			
GR	2306.8	9830.0	2304.0	9862.2	2299.6	9896.8	2293.8	9931.0	2292.0	9963.2
GR	2290.8	9983.4	2287.2	10000.0	2293.5	10020.4	2301.9	10048.0	2306.4	10075.0
ET			9.1						10000.0	10016.0
X1	590	9	10000.0	10021.8	380	360	370			
	2330.3	9928.2	2329.5	9937.7	2312.0	9982.8	2305.5	10000.0	2309.9	10021.8
	2318.5	10033.3	2321.5	10056.7	2323.4	10094.4	2326.3	10132.4		

ET			9.1						10000.0	10015.7
X1	680	10	10000.0	10015.7	480	480	480			
GR	2360.2	9909.8	2357.5	9921.7	2350.9	9949.8	2348.4	9964.3	2343.1	9981.4
GR	2339.6	10000.0	2339.0	10003.2	2342.1	10015.7	2352.9	10029.5	2360.6	10056.3
ET			9.1						9986.4	10000.0
X1	760	9	9986.4	10000.0	410	430	420			
GR	2395.8	9923.6	2389.4	9945.1	2381.6	9961.0	2374.5	9986.4	2371.3	10000.0
GR	2372.5	10001.7	2377.1	10015.2	2385.2	10030.5	2393.7	10062.0		
ET			9.1						10000.0	10009.0
X1	840	10	10000.0	10009.0	430	410	420			
GR	2431.1	9934.0	2429.8	9939.2	2422.9	9964.7	2416.0	9985.2	2407.3	10000.0
GR	2406.0	10000.3	2408.1	10009.0	2416.2	10024.7	2424.8	10047.6	2432.1	10070.0
ET			9.1						10002.8	10013.5
X1	910	9	10007.1	10013.3	360	380	370			
GR	2463.9	9935.7	2455.5	9957.8	2447.2	9978.6	2441.4	10000.0	2439.0	10007.1
GR	2439.3	10013.3	2446.2	10026.4	2456.2	10044.4	2464.4	10068.3		
ET			9.1						9992.8	10004.6
X1	970	10	10000.0	10002.3	320	320	320			
GR	2508.6	9921.6	2502.3	9939.1	2495.6	9957.2	2489.1	9986.4	2486.6	10000.0
GR	2485.3	10002.3	2489.7	10009.4	2490.4	10030.7	2497.4	10068.2	2506.2	10104.2

T1 FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LA027815.H2
T2 100 YEAR FLOOD ENCROACHMENT MODEL
T3 WILLOW SPR. WASH, TRIB.1A (WST1A.MCE)

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
		3							2208.34	

J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	15		-1							

THIS RUN EXECUTED 3/10/90 15:45:25

****
HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989

ERROR CORR - 01,02,03
MODIFICATION -
****

NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

WILLOW SPR. TRIB. 1A (W

SUMMARY PRINTOUT

	SECNO	Q	VCH	DEPTH	ELMIN	XLCH	CWSEL	.01K	TOPWID	SSTA	STCHL	STCHR	ENDST
*	1520.000	341.00	7.07	2.44	2204.90	.00	2207.34	31.36	31.44	9991.41	9986.90	10026.20	10022.85
	1520.000	341.00	4.86	3.44	2204.90	.00	2208.34	62.83	25.00	9997.00	9986.90	10026.20	10022.00
	80.000	341.00	9.41	3.22	2212.40	530.00	2215.62	23.65	28.97	9979.26	10000.00	10008.10	10008.23
*	80.000	341.00	10.70	3.72	2212.40	530.00	2216.12	23.94	14.10	9993.90	10000.00	10008.10	10008.00
*	150.000	341.00	9.20	2.90	2221.70	370.00	2224.60	34.05	40.80	9977.20	10000.00	10008.40	10018.00
*	150.000	341.00	10.68	3.27	2221.70	370.00	2224.97	27.97	13.90	9994.50	10000.00	10008.40	10008.40
*	200.000	341.00	7.78	2.24	2229.50	260.00	2231.74	35.55	31.96	9976.04	9979.30	10000.00	10008.01
*	200.000	341.00	8.10	2.38	2229.50	260.00	2231.88	31.82	20.70	9979.30	9979.30	10000.00	10000.00
*	260.000	341.00	8.47	2.95	2236.50	320.00	2239.45	28.07	27.89	9984.15	9989.10	10001.90	10012.04
*	260.000	341.00	9.54	3.12	2236.50	320.00	2239.62	21.20	12.80	9989.10	9989.10	10001.90	10001.90
*	330.000	341.00	9.32	3.21	2247.70	370.00	2250.91	27.73	22.01	9982.14	9990.30	10000.20	10004.15
*	330.000	341.00	10.36	3.62	2247.70	370.00	2251.32	19.34	9.90	9990.30	9990.30	10000.20	10000.20
*	390.000	341.00	8.13	3.65	2260.40	320.00	2264.05	20.06	25.19	9989.26	9999.80	10016.70	10014.44
*	390.000	341.00	9.58	4.31	2260.40	320.00	2264.71	20.96	13.80	9999.20	9999.80	10016.70	10013.00
*	440.000	341.00	7.84	2.74	2270.50	260.00	2273.24	21.06	55.59	9985.57	10000.00	10016.40	10078.21
*	440.000	341.00	8.79	3.31	2270.50	260.00	2273.81	21.41	16.50	9999.90	10000.00	10016.40	10016.40
*	520.000	341.00	7.96	3.43	2287.20	420.00	2290.63	17.96	26.94	9984.17	9983.40	10000.00	10011.11
*	520.000	341.00	9.14	4.09	2287.20	420.00	2291.29	19.23	15.40	9985.00	9983.40	10000.00	10000.40
*	590.000	341.00	7.93	3.48	2305.50	370.00	2308.98	18.25	26.47	9990.79	10000.00	10021.80	10017.25
	590.000	341.00	8.85	4.02	2305.50	370.00	2309.52	17.09	16.00	10000.00	10000.00	10021.80	10016.00
*	680.000	341.00	8.22	3.20	2339.00	480.00	2342.20	18.58	29.62	9986.21	10000.00	10015.70	10015.82
*	680.000	341.00	8.95	3.72	2339.00	480.00	2342.72	17.47	15.70	10000.00	10000.00	10015.70	10015.70

	SECNO	Q	VCH	DEPTH	ELMIN	XLCH	CWSEL	.01K	TOPWID	SSTA	STCHL	STCHR	ENDST
*	760.000	341.00	8.63	3.73	2371.30	420.00	2375.03	19.08	24.60	9984.52	9986.40	10000.00	10009.11
*	760.000	341.00	9.31	4.29	2371.30	420.00	2375.59	16.66	13.60	9986.40	9986.40	10000.00	10000.00
*	840.000	341.00	9.60	4.34	2406.00	420.00	2410.34	21.40	18.50	9994.84	10000.00	10009.00	10013.33
*	840.000	341.00	10.75	4.56	2406.00	420.00	2410.56	14.87	9.00	10000.00	10000.00	10009.00	10009.00
*	910.000	341.00	9.82	3.41	2439.00	370.00	2442.41	22.67	22.94	9996.27	10007.10	10013.30	10019.21
*	910.000	341.00	11.76	3.69	2439.00	370.00	2442.69	20.01	10.70	10002.80	10007.10	10013.30	10013.50
*	970.000	341.00	10.63	4.41	2485.30	320.00	2489.71	21.01	25.96	9983.67	10000.00	10002.30	10009.63
*	970.000	341.00	13.77	4.62	2485.30	320.00	2489.92	16.84	11.80	9992.80	10000.00	10002.30	10004.60

W SPR. TRIB. 1A (W

SUMMARY PRINTOUT

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	STENCL	STCHL	STCHR	STENCR	10*KS	EG	DIFEG
*	1520.000	341.00	2207.34	.00	.00	.00	9986.90	10026.20	.00	118.25	2208.12	.00
	1520.000	341.00	2208.34	1.00	.00	9997.00	9986.90	10026.20	10022.00	29.46	2208.71	.59
*	80.000	341.00	2215.62	.00	8.29	.00	10000.00	10008.10	.00	207.97	2216.54	.00
*	80.000	341.00	2216.12	.49	7.78	9993.90	10000.00	10008.10	10008.00	202.94	2217.53	.99
*	150.000	341.00	2224.60	.00	8.98	.00	10000.00	10008.40	.00	100.31	2225.41	.00
*	150.000	341.00	2224.97	.37	8.85	9994.50	10000.00	10008.40	10008.40	148.59	2226.40	.99
*	200.000	341.00	2231.74	.00	7.14	.00	9979.30	10000.00	.00	91.99	2232.60	.00
*	200.000	341.00	2231.88	.14	6.92	9979.30	9979.30	10000.00	10000.00	114.86	2232.90	.30
*	260.000	341.00	2239.45	.00	7.71	.00	9989.10	10001.90	.00	147.62	2240.42	.00
*	260.000	341.00	2239.62	.17	7.74	9989.10	9989.10	10001.90	10001.90	258.61	2241.04	.62
*	330.000	341.00	2250.91	.00	11.46	.00	9990.30	10000.20	.00	151.24	2252.03	.00
*	330.000	341.00	2251.32	.41	11.70	9990.30	9990.30	10000.20	10000.20	310.83	2252.99	.95
*	390.000	341.00	2264.05	.00	13.13	.00	9999.80	10016.70	.00	288.87	2264.94	.00
*	390.000	341.00	2264.71	.66	13.39	9999.20	9999.80	10016.70	10013.00	264.71	2266.11	1.16
*	440.000	341.00	2273.24	.00	9.19	.00	10000.00	10016.40	.00	262.16	2274.02	.00
*	440.000	341.00	2273.81	.58	9.10	9999.90	10000.00	10016.40	10016.40	253.74	2275.01	1.00
*	520.000	341.00	2290.63	.00	17.40	.00	9983.40	10000.00	.00	360.45	2291.50	.00
*	520.000	341.00	2291.29	.66	17.48	9985.00	9983.40	10000.00	10000.40	314.59	2292.57	1.07
*	590.000	341.00	2308.98	.00	18.35	.00	10000.00	10021.80	.00	349.24	2309.86	.00
*	590.000	341.00	2309.52	.54	18.23	10000.00	10000.00	10021.80	10016.00	398.10	2310.74	.88
*	680.000	341.00	2342.20	.00	33.21	.00	10000.00	10015.70	.00	336.97	2343.08	.00
*	680.000	341.00	2342.72	.53	33.20	10000.00	10000.00	10015.70	10015.70	380.98	2343.97	.89
*	760.000	341.00	2375.03	.00	32.83	.00	9986.40	10000.00	.00	319.39	2376.03	.00
*	760.000	341.00	2375.59	.57	32.87	9986.40	9986.40	10000.00	10000.00	419.14	2376.94	.91
*	840.000	341.00	2410.34	.00	35.31	.00	10000.00	10009.00	.00	253.86	2411.58	.00
*	840.000	341.00	2410.56	.23	34.97	10000.00	10000.00	10009.00	10009.00	525.82	2412.36	.77
*	910.000	341.00	2442.41	.00	32.08	.00	10007.10	10013.30	.00	226.21	2443.47	.00
*	910.000	341.00	2442.69	.28	32.13	10002.80	10007.10	10013.30	10013.50	290.31	2444.47	1.00
*	970.000	341.00	2489.71	.00	47.30	.00	10000.00	10002.30	.00	263.52	2490.58	.00
*	970.000	341.00	2489.92	.22	47.23	9992.80	10000.00	10002.30	10004.60	409.91	2491.60	1.01

SUMMARY OF ERRORS AND SPECIAL NOTES

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CAUTION SECNO=   1520.000  PROFILE=  1  CRITICAL DEPTH ASSUMED

CAUTION SECNO=     80.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     80.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     80.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     80.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     80.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=    150.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    150.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    150.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    150.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    200.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    200.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    200.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    200.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    200.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    260.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    260.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    260.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    260.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    260.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    330.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    330.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    330.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    330.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    330.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    390.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    390.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    390.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    390.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    390.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    440.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    440.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    440.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    440.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    520.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    520.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    520.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    520.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    590.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    590.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    590.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    590.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
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CAUTION SECNO=    680.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    680.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    680.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    680.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    760.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    760.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    760.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    760.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    840.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    840.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    840.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    840.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    840.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    910.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    910.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    910.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    910.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    910.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    970.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    970.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    970.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    970.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    970.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    970.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
```

FLOODWAY DATA, WILLOW SPR. TRIB. 1A (W
PROFILE NO. 2

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE
1520.000	25.	70.	4.9	2208.3	2207.3	1.0
80.000	14.	37.	9.2	2216.1	2215.6	.5
150.000	14.	38.	8.9	2225.0	2224.6	.4
200.000	21.	42.	8.1	2231.9	2231.7	.2
260.000	13.	36.	9.5	2239.6	2239.5	.1
330.000	10.	33.	10.4	2251.3	2250.9	.4
390.000	14.	37.	9.1	2264.7	2264.0	.7
440.000	16.	39.	8.7	2273.8	2273.2	.6
520.000	15.	39.	8.8	2291.3	2290.6	.7
590.000	16.	39.	8.8	2309.5	2309.0	.5
680.000	16.	38.	9.0	2342.7	2342.2	.5
760.000	14.	37.	9.3	2375.6	2375.0	.6
840.000	9.	32.	10.8	2410.6	2410.3	.3
910.000	11.	35.	9.6	2442.7	2442.4	.3
970.000	12.	37.	9.1	2489.9	2489.7	.2

```
*******************************************************
*  WATER SURFACE PROFILES                             *
*  VERSION OF SEPTEMBER 1988                          *
*  OR: 01,02,03                                       *
*  ATED:  SEPTEMBER 1989                              *
*  RUN DATE     2/26/90    TIME    16:27:25           *
*******************************************************
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```
****************************************
*  U.S. ARMY CORPS OF ENGINEERS
*  THE HYDROLOGIC ENGINEERING CENTER
*  609 SECOND STREET, SUITE D
*  DAVIS, CALIFORNIA 95616-4687
*           (916) 756-1104
****************************************
```

WST2.OUT
100 YR CWSEL 2-27-90 DES

```
X     X  XXXXXXX   XXXXX              XXXXX
X     X  X        X     X            X     X
X     X  X        X                        X
XXXXXXX  XXXX     X         XXXXX    XXXXX
X     X  X        X                  X
X     X  X        X     X            X
X     X  XXXXXXX   XXXXX             XXXXXXX
```

END OF BANNER

THIS RUN EXECUTED 2/26/90 16:27:25

```
**************************************************
  HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989


  ERROR CORR -  01,02,03
  MODIFICATION -
**************************************************


T1      FLOOD CONTROL DISTRICT OF MARICOPA CO. - LA027815.H2
T2      10-YEAR FLOOD FREQUENCY MODEL
T3      WILLOW SPRINGS, TRIB. 2  (WST2.DAT)


J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

              2                          .01                                2204.55

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

    1                 -1


J3  VARIABLE CODES FOR SUMMARY PRINTOUT

    38       1       43       8       55       26       56       13       14       15
     4       5       51
   150


QT       4      856     1275     1492     1866

NC     .045     .045      .03       .1       .3

         PRELIMINARY MULTIPLE PROFILE RUNS
         X-SEC 000 = X-SEC 1.92 ON WILLOW SPR. TRIB 3
         QT VALUES ARE FROM HEC-1 (CVCRK43R.OUT) CP #18
         STRT W.S. ELEV IS FROM X-SEC 1910 ON TRIB 3 (WST3.OUT)

X1     1910       15   9976.6  10018.5
GR   2218.9   9891.3   2215.3   9927.8   2212.7   9946.7   2209.4   9960.0   2205.1   9976.6
GR   2204.0   9990.2   2199.5   9997.7   2199.0  10000.0   2201.4  10010.0   2204.1  10018.5
GR   2206.3  10033.4   2209.5  10036.4   2216.9  10057.7   2220.7  10067.2   2220.7  10068.5
```

X1	40	15	9966.5	10009.3	260	260	260			
GR	2227.7	9864.5	2227.1	9881.7	2227.6	9896.8	2225.6	9918.9	2220.6	9938.8
GR	2217.5	9954.9	2213.2	9966.4	2212.9	9966.5	2209.9	9982.3	2209.7	10000.0
GR	2211.5	10009.3	2222.2	10021.1	2224.9	10038.1	2225.6	10061.5	2225.6	10072.1
X1	100	11	9989.0	10007.0	320	320	320			
GR	2232.9	9911.0	2230.9	9926.6	2223.2	9947.4	2221.9	9960.6	2220.1	9975.5
GR	2215.5	9989.0	2214.2	10000.0	2214.8	10007.0	2223.5	10016.1	2228.0	10034.0
GR	2232.0	10047.4								
NC	.045	.045	.035							
X1	200	12	9987.3	10013.5	530	530	530			
GR	2243.7	9866.3	2242.3	9909.2	2240.3	9937.5	2235.7	9957.4	2232.1	9969.6
GR	2228.0	9987.3	2226.8	9998.5	2226.3	10000.0	2228.3	10013.5	2235.7	10022.6
GR	2242.9	10038.3	2246.0	10046.7						
NC	.045	.045	.04							
X1	300	21	9992.8	10091.7	530	530	530			
GR	2265.1	9609.5	2259.0	9670.7	2255.1	9724.3	2253.7	9768.4	2251.9	9780.3
GR	2252.8	9793.0	2253.7	9819.4	2254.7	9869.3	2254.8	9921.2	2254.9	9954.8
GR	2254.0	9976.1	2241.6	9992.8	2240.1	10000.0	2240.9	10010.8	2240.9	10033.4
GR	2240.9	10061.3	2241.0	10081.9	2241.5	10091.7	2244.4	10103.8	2254.2	10145.4
GR	2259.6	10160.4								
X1	400	16	9989.5	10023.2	530	530	530			
GR	2273.4	9819.6	2264.8	9878.3	2261.2	9918.4	2260.8	9967.7	2258.6	9972.8
GR	2249.2	9989.5	2248.4	9998.1	2249.5	10000.0	2250.4	10019.9	2251.5	10023.2
GR	2252.9	10073.6	2256.5	10095.5	2261.2	10145.4	2263.7	10181.9	2266.8	10216.7
GR	2269.9	10235.1								
NC	.055	.055	.045							
X1	540	12	9984.4	10020.2	740	740	740			
GR	2283.1	9919.4	2277.4	9954.6	2266.1	9978.6	2264.7	9984.4	2262.9	9993.4
GR	2260.9	9996.8	2260.3	10000.0	2261.8	10006.4	2265.8	10020.2	2270.9	10053.9
GR	2278.0	10079.6	2279.5	10095.4						
NC	.05	.05	.045							
X1	660	10	9976.9	10000.0	630	630	630			
GR	2285.2	9878.8	2281.6	9922.1	2279.4	9949.9	2277.5	9976.9	2275.6	9980.8
GR	2275.2	9988.4	2276.6	10000.0	2280.3	10009.0	2285.8	10035.2	2294.1	10068.9

```
Q1      4       511       762       891       1114

NC    .06       .06       .05

          CONFLUENCE WITH WILLOW SPR. TRIB. 2A
          QT VALUES ARE FROM HEC-1 (CVCRK43R.OUT) CP F2B
X1    740        17    9995.9   10022.9       420       420       420
GR  2309.0    9952.9    2307.7    9964.9    2293.4    9983.9    2288.0    9995.9    2286.7   10000.0
GR  2288.8   10007.5    2290.8   10022.9    2291.0   10027.0    2293.2   10053.5    2294.3   10054.0
GR  2300.3   10078.0    2304.2   10097.2    2305.1   10117.9    2304.8   10145.7    2304.6   10171.8
GR  2304.7   10203.3    2305.2   10224.9


NC   .055      .055      .045

X1    820        17    9968.4   10004.5       420       420       420
GR  2324.9    9867.8    2315.8    9915.0    2308.5    9938.0    2302.4    9968.4    2300.7    9990.2
GR  2298.5    9999.0    2298.4   10000.0    2299.5   10004.5    2311.3   10013.4    2314.0   10017.5
GR  2314.9   10044.7    2317.6   10089.3    2318.1   10116.4    2320.0   10140.3    2322.6   10169.3
GR  2326.8   10201.9    2327.0   10221.1


NC    .06       .06       .05

      910        16    9993.7   10010.0       475       475       475
G.  2335.8    9788.6    2324.5    9845.7    2321.3    9869.5    2322.1    9889.9    2319.1    9910.4
GR  2313.6    9924.3    2312.1    9947.8    2312.6    9968.6    2313.1    9993.7    2311.9   10000.0
GR  2312.7   10010.0    2317.3   10021.6    2322.6   10028.3    2327.6   10051.9    2332.7   10084.0
GR  2335.0   10097.8


NC   .055      .055      .045

X1    980        15    9985.9   10019.4       370       370       370
GR  2343.5    9916.8    2336.2    9953.6    2326.1    9972.7    2325.2    9972.8    2319.4    9985.9
GR  2317.2    9994.4    2318.0   10000.0    2319.6   10019.4    2323.7   10038.1    2326.4   10038.9
GR  2329.2   10068.8    2332.0   10099.1    2335.8   10128.2    2338.3   10160.4    2339.6   10168.5


NC   .055      .055       .05

X1   1120        12    9990.1   10011.3       740       740       740
GR  2370.6    9902.9    2349.1    9933.7    2341.8    9953.5    2339.5    9977.5    2338.1    9990.1
GR  2335.6   10000.0    2338.1   10011.3    2343.2   10022.5    2347.9   10050.2    2350.1   10090.1
GR  2352.3   10128.4    2354.8   10159.9


NC   .055      .055      .045
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X1     1200       16     9988.1    10011.3      420      420      420
GR   2372.9   9914.6     2366.6     9941.1   2358.9   9959.6   2355.1   9977.2   2352.0   9988.1
GR   2349.7   9992.2     2349.3     9996.3   2349.7  10000.0   2350.1  10004.3   2354.9  10011.3
GR   2358.6  10021.2     2361.4    10047.1   2361.7  10082.0   2362.8  10110.1   2366.7  10141.0
GR   2371.8  10168.9

QT       4       255        381        445      557

NC     .06       .06       .055

         QT VALUES ARE FROM HEC-1 (CVCRK43R.OUT) F2B WEIGHTED BY AREA
X1     1310       19     9988.1    10003.5      580      580      580
GR   2403.9   9902.9     2394.6     9935.4   2382.7   9956.4   2378.9   9970.0   2375.7   9988.1
GR   2373.7   9994.6     2373.3     9998.3   2373.3  10000.0   2374.8  10003.5   2379.3  10013.9
GR   2381.8  10016.6     2389.6    10036.1   2390.1  10059.6   2390.2  10085.3   2389.7  10114.1
GR   2391.0  10128.2     2394.0    10148.3   2396.1  10168.0   2398.2  10178.2

X1     1380       18     9994.3    10009.1      370      370      370
GR   2415.7   9936.2     2405.8     9967.9   2398.6   9982.0   2394.6   9994.3   2392.1   9999.5
GR   2392.0  10000.0     2392.8    10009.1   2396.2  10020.9   2397.8  10033.2   2398.2  10049.1
GR   2400.3  10060.0     2401.8    10088.2   2403.0  10124.5   2404.1  10159.9   2405.1  10185.3
GR   2406.2  10213.2     2406.9    10244.9   2407.6  10260.2

X1     1490       19     9999.3    10005.4      580      580      580
GR   2448.9   9948.0     2438.2     9979.1   2433.4   9983.7   2428.6   9993.3   2422.6   9999.3
GR   2422.2  10000.0     2424.4    10005.4   2430.5  10017.7   2432.3  10023.3   2433.0  10045.1
GR   2433.1  10060.2     2433.9    10077.7   2436.1  10095.0   2438.8  10112.8   2439.8  10126.6
GR   2439.4  10138.7     2442.0    10154.2   2445.9  10175.5   2451.4  10184.6

X1     1610       13     9981.6    10005.6      630      630      630
GR   2483.7   9951.1     2472.7     9973.9   2467.4   9981.6   2464.2   9992.1   2464.3   9996.5
GR   2464.3  10000.0     2465.7    10005.6   2468.0  10014.4   2468.9  10022.8   2473.9  10053.6
GR   2477.2  10086.6     2482.1    10120.1   2489.4  10142.0
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    CNO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q       QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*PROF 1

CCHV=     .100 CEHV=     .300
*SECNO 1910.000
          PRELIMINARY MULTIPLE PROFILE RUNS
          X-SEC 000 = X-SEC 1.92 ON WILLOW SPR. TRIB 3
          QT VALUES ARE FROM HEC-1 (CVCRK43R.OUT) CP #18
          STRT W.S. ELEV IS FROM X-SEC 1910 ON TRIB 3 (WST3.OUT)

 1910.000     5.55  2204.55  2204.51  2204.55  2205.84     1.29      .00      .00  2205.10
     856.       0.     855.       1.       0.      94.       1.       0.       0.   2204.10
      .00      .00     9.11     1.20     .000     .030     .045     .000  2199.00  9983.40
  .009822       0.       0.       0.        0        4        0      .00    38.15 10021.55


*SECNO 40.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     .000     3.18  2212.88  2212.88      .00  2214.03     1.15     2.58      .01  2212.90
     856.       0.     854.       2.       0.      99.       1.       1.       0.   2211.50
      .01      .00     8.62     2.11     .000     .030     .045     .000  2209.70  9966.62
  .010010     260.     260.     260.       20       11        0      .00    44.20 10010.82


*SECNO 100.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   100.000     4.48  2218.68  2218.68      .00  2220.33     1.65     2.78      .15  2215.50
     856.      56.     771.      28.      15.      71.       8.       1.       1.   2214.80
      .02     3.79    10.80     3.61     .045     .030     .045     .000  2214.20  9979.66
  .007627     320.     320.     320.       20       11        0      .00    31.40 10011.06


*SECNO 200.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   200.000     4.15  2230.45  2230.45      .00  2231.81     1.36     4.89      .03  2228.00
     856.      51.     796.       9.      13.      82.       3.       2.       1.   2228.30
      .03     3.96     9.66     3.12     .045     .035     .045     .000  2226.30  9976.74
     1391     530.     530.     530.       20       11        0      .00    39.40 10016.14
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 300.000

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  300.000     2.11  2242.21  2242.21      .00  2242.88      .67     8.13      .07  2241.60
     856.       0.     853.       3.       0.     130.       1.       4.       2.   2241.50
      .06     1.91     6.57     2.40     .045     .040     .045     .000  2240.10  9991.98
  .021763     530.     530.     530.       11       11        0      .00   102.69 10094.67


*SECNO 400.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  400.000     4.07  2252.47  2252.47      .00  2253.45      .98     8.75      .09  2249.20
     856.       45.     771.      39.      10.      93.      17.       5.       3.   2251.50
      .07     4.76     8.26     2.32     .045     .040     .045     .000  2248.40  9983.69
  .012950     530.     530.     530.        5       17        0      .00    74.45 10058.14


*SECNO 540.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  540.000     5.11  2265.41  2265.41      .00  2266.74     1.33    12.39      .11  2264.70
     856.        2.     854.       0.       1.      92.       0.       7.       4.   2265.80
      .10     1.99     9.27      .00     .055     .045     .000     .000  2260.30  9981.47
  .022468     740.     740.     740.       10       11        0      .00    37.37 10018.84


*SECNO 660.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  660.000     4.22  2279.42  2279.42      .00  2280.48     1.05    10.74      .03  2277.50
     856.       89.     727.      40.      26.      83.      10.       9.       5.   2276.60
      .12     3.37     8.80     4.11     .050     .045     .050     .000  2275.20  9949.59
  .013368     630.     630.     630.        5       15        0      .00    57.28 10006.87


*SECNO 740.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
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CONFLUENCE WITH WILLOW SPR. TRIB. 2A
QT VALUES ARE FROM HEC-1 (CVCRK43R.OUT) CP F2B

740.000	4.22	2290.92	2290.92	.00	2291.92	1.00	7.36	.00	2288.00
511.	50.	461.	0.	9.	56.	0.	10.	5.	2290.80
.13	5.24	8.29	.66	.060	.050	.060	.000	2286.70	9989.41
.030576	420.	420.	420.	20	5	0	.00	35.93	10025.35

*SECNO 820.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

820.000	4.13	2302.53	2302.53	.00	2303.36	.83	10.89	.02	2302.40
511.	0.	498.	13.	0.	67.	3.	10.	5.	2299.50
.15	.04	7.40	3.79	.055	.045	.055	.000	2298.40	9967.76
.022281	420.	420.	420.	4	6	0	.00	39.02	10006.78

*SECNO 910.000

910.000	1.99	2313.89	.00	.00	2314.26	.37	10.85	.05	2313.10
511.	359.	147.	5.	83.	25.	2.	11.	6.	2312.70
.18	4.34	5.96	2.56	.060	.050	.060	.000	2311.90	9923.56
.023422	475.	475.	475.	4	0	0	.00	89.44	10013.00

*SECNO 980.000

[illegible].000	3.44	2320.64	.00	.00	2321.37	.72	7.00	.11	2319.40
[illegible]511.	4.	501.	5.	2.	73.	3.	12.	7.	2319.60
.19	2.32	6.87	2.16	.055	.045	.055	.000	2317.20	9983.08
.015598	370.	370.	370.	5	0	0	.00	41.11	10024.19

*SECNO 1120.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1120.000	3.96	2339.56	2339.56	.00	2340.55	.98	13.30	.08	2338.10
511.	31.	473.	7.	10.	58.	2.	13.	7.	2338.10
.22	3.25	8.22	2.98	.055	.050	.055	.000	2335.60	9976.84
.020944	740.	740.	740.	12	11	0	.00	37.68	10014.51

*SECNO 1200.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1200.000	3.69	2352.99	2352.99	.00	2354.28	1.29	9.09	.09	2352.00
511.	4.	507.	0.	2.	55.	0.	14.	8.	2354.90
.23	2.47	9.15	.00	.055	.045	.000	.000	2349.30	9984.61
.022360	420.	420.	420.	10	11	0	.00	23.90	10008.52

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 CNO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 -       QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
 SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*SECNO 1310.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
        QT VALUES ARE FROM HEC-1 (CVCRK43R.OUT) F2B WEIGHTED BY AREA
 1310.000     2.87  2376.17  2376.17      .00  2377.08      .91    14.67      .04  2375.70
    255.        1.     247.       7.       1.      32.       2.      15.       8.   2374.80
     .25      1.71     7.77     3.32     .060     .055     .060     .000  2373.30  9985.43
  .033223     580.     580.     580.       20       15        0      .00    21.24 10006.67


*SECNO 1380.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1380.000     2.69  2394.69  2394.69      .00  2395.57      .88    12.80      .00  2394.60
    255.        0.     228.      27.       0.      29.       6.      15.       8.   2392.80
     .27      .05     7.83     4.40     .060     .055     .060     .000  2392.00  9994.03
  .036048     370.     370.     370.       10       11        0      .00    21.62 10015.65


*    O 1490.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1490.000     4.30  2426.50  2426.50      .00  2427.73     1.23    18.90      .10  2422.60
    255.       40.     197.      18.       8.      20.       4.      15.       8.   2424.40
     .28     5.28     9.75     4.09     .060     .055     .060     .000  2422.20  9995.40
  .029614     580.     580.     580.       11       14        0      .00    14.24 10009.64


*SECNO 1610.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1610.000     2.32  2466.52  2466.52      .00  2467.31      .79    20.75      .04  2467.40
    255.        0.     252.       3.       0.      35.       1.      16.       9.   2465.70
     .31      .00     7.16     2.57     .000     .055     .060     .000  2464.20  9984.48
  .036852     630.     630.     630.        3       11        0      .00    24.26 10008.74
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     FLOOD CONTROL DISTRICT OF MARICOPA CO. - LA027815.H2
T2   50-YEAR FLOOD FREQUENCY MODEL
T3   WILLOW SPRINGS, TRIB. 2  (WST2.DAT)

J1  ICHECK   INQ     NINV    IDIR    STRT    METRIC  HVINS   Q       WSEL    FQ

             3                    .01                             2205.41

J2  NPROF    IPLOT   PRFVS   XSECV   XSECH   FN      ALLDC   IBW     CHNIM   ITRACE

    2                -1
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 CNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q      QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME   VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE  XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*PROF 2

CCHV=     .100 CEHV=     .300
*SECNO 1910.000
3720 CRITICAL DEPTH ASSUMED
         PRELIMINARY MULTIPLE PROFILE RUNS
         X-SEC 000 = X-SEC 1.92 ON WILLOW SPR. TRIB 3
         QT VALUES ARE FROM HEC-1 (CVCRK43R.OUT) CP #18
         STRT W.S. ELEV IS FROM X-SEC 1910 ON TRIB 3 (WST3.OUT)

 1910.000     6.44  2205.44  2205.44  2205.41  2206.90     1.46      .00      .00  2205.10
    1275.      0.    1260.      15.      0.     129.       6.       0.       0.   2204.10
      .00      .95     9.75     2.41     .045     .030     .045     .000  2199.00  9975.29
  .009185      0.       0.       0.       0        5        0      .00    52.29 10027.58


*SECNO 40.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   40.000     3.87  2213.57  2213.57      .00  2215.07     1.50     2.40      .01  2212.90
    1275.      0.    1269.       6.      0.     129.       2.       1.       0.   2211.50
      .01      .78     9.86     2.66     .045     .030     .045     .000  2209.70  9965.41
  .009261     260.     260.     260.       20       14        0      .00    46.17 10011.58


*SECNO 100.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  100.000     5.56  2219.76  2219.76      .00  2221.79     2.03     2.57      .16  2215.50
    1275.     118.    1105.      53.      27.      91.      13.       2.       1.   2214.80
      .02     4.41     12.16     4.08     .045     .030     .045     .000  2214.20  9976.49
  .007010     320.     320.     320.       20       11        0      .00    35.70 10012.19


*SECNO 200.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
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CNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
200.000	5.05	2231.35	2231.35	.00	2232.99	1.65	4.43	.04	2228.00
1275.	111.	1142.	21.	24.	106.	6.	3.	1.	2228.30
.03	4.60	10.77	3.72	.045	.035	.045	.000	2226.30	9972.85
.010126	530.	530.	530.	20	12	0	.00	44.40	10017.25

*SECNO 300.000

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

300.000	2.52	2242.62	2242.62	.00	2243.47	.85	7.25	.08	2241.60
1275.	2.	1265.	8.	1.	170.	3.	5.	2.	2241.50
.05	2.54	7.44	3.07	.045	.040	.045	.000	2240.10	9991.43
.019512	530.	530.	530.	13	8	0	.00	104.93	10096.36

*SECNO 400.000
MINIMUM SPECIFIC ENERGY
CRITICAL DEPTH ASSUMED

400.000	4.79	2253.19	2253.19	.00	2254.21	1.01	7.50	.05	2249.20
1275.	70.	1034.	171.	14.	118.	50.	7.	3.	2251.50
.07	4.95	8.78	3.39	.045	.040	.045	.000	2248.40	9982.40
.010739	530.	530.	530.	4	17	0	.00	92.98	10075.39

*SECNO 540.000

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

540.000	5.99	2266.29	2266.29	.00	2267.88	1.59	10.42	.17	2264.70
1275.	18.	1256.	1.	5.	123.	1.	10.	4.	2265.80
.09	3.38	10.18	1.46	.055	.045	.055	.000	2260.30	9978.20
.019274	740.	740.	740.	16	11	0	.00	45.24	10023.44

*SECNO 660.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

660.000	4.96	2280.16	2280.16	.00	2281.37	1.21	9.82	.04	2277.50
1275.	229.	974.	72.	50.	100.	15.	12.	5.	2276.60
.11	4.59	9.77	4.70	.050	.045	.050	.000	2275.20	9940.30
2854	630.	630.	630.	4	12	0	.00	68.36	10008.66

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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 740.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
         CONFLUENCE WITH WILLOW SPR. TRIB. 2A
         QT VALUES ARE FROM HEC-1 (CVCRK43R.OUT) CP F2B
  740.000     4.90  2291.60  2291.60      .00  2292.77     1.17     6.75      .00  2288.00
    762.       78.     671.      13.      14.      74.       5.      13.       6.   2290.80
     .12     5.45     9.07     2.51     .060     .050     .060     .000  2286.70  9987.90
  .025030     420.     420.     420.       20        5        0      .00    46.31 10034.21


*SECNO 820.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  820.000     4.59  2302.99  2302.99      .00  2304.17     1.18    10.17      .00  2302.40
    762.        2.     741.      20.       1.      84.       5.      14.       6.   2299.50
     .14     1.82     8.81     4.28     .055     .045     .055     .000  2298.40  9965.44
  .023441     420.     420.     420.        5       11        0      .00    41.70 10007.14


*SECNO 910.000

3301 HV CHANGED MORE THAN HVINS

  910.000     2.39  2314.29      .00      .00  2314.75      .45    10.50      .07  2313.10
    762.      547.     206.       9.     111.      31.       3.      16.       7.   2312.70
     .16     4.92     6.59     2.93     .060     .050     .060     .000  2311.90  9922.55
  .020883     475.     475.     475.        5        0        0      .00    91.47 10014.02


*SECNO 980.000

3301 HV CHANGED MORE THAN HVINS

  980.000     3.89  2321.09  2321.01      .00  2322.15     1.07     7.22      .18  2319.40
    762.       10.     737.      15.       3.      88.       5.      17.       7.   2319.60
     .17     3.07     8.41     2.95     .055     .045     .055     .000  2317.20  9982.09
  .018288     370.     370.     370.        7       14        0      .00    44.10 10026.19


*SECNO 1120.000
7185 MINIMUM SPECIFIC ENERGY
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q      QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


3720 CRITICAL DEPTH ASSUMED
 1120.000     4.63  2340.23  2340.23      .00  2341.38     1.15    13.88      .02  2338.10
    762.       91.     653.       18.      21.      72.      5.      18.       8.  2338.10
     .20     4.36     9.12     3.67     .055     .050     .055     .000  2335.60  9969.89
  .019237     740.     740.     740.       13       11       0      .00    46.09 10015.98


*SECNO 1200.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1200.000     4.55  2353.85  2353.85      .00  2355.39     1.54     8.30      .12  2352.00
    762.       22.     740.       0.       6.      74.      0.      19.       9.  2354.90
     .21     3.57    10.07      .00     .055     .045     .000     .000  2349.30  9981.59
  .020331     420.     420.     420.       12        5       0      .00    28.18 10009.77


*SECNO 1310.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
     CRITICAL DEPTH ASSUMED
        QT VALUES ARE FROM HEC-1 (CVCRK43R.OUT) F2B WEIGHTED BY AREA
 1310.000     3.50  2376.80  2376.80      .00  2377.86     1.06    13.04      .05  2375.70
    381.        9.     353.       18.       3.      41.      5.      20.       9.  2374.80
     .23     2.76     8.52     3.92     .060     .055     .060     .000  2373.30  9981.86
  .027978     580.     580.     580.       20       15       0      .00    26.27 10008.13


*SECNO 1380.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1380.000     3.28  2395.28  2395.28      .00  2396.33     1.05    10.89      .00  2394.60
    381.        1.     327.       52.       1.      38.     11.      20.       9.  2392.80
     .24     2.05     8.65     4.90     .060     .055     .060     .000  2392.00  9992.22
  .030999     370.     370.     370.       10       11       0      .00    25.48 10017.70


*SECNO 1490.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1490.000     5.13  2427.33  2427.33      .00  2428.78     1.44    16.82      .12  2422.60
    381.       65.     274.       43.      11.      25.      9.      21.       9.  2424.40
     .26     5.76    10.85     4.90     .060     .055     .060     .000  2422.20  9994.57
  .027189     580.     580.     580.       13       14       0      .00    16.75 10011.32
```

CNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 1610.000

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1610.000	2.86	2467.06	2467.06	.00	2467.99	.93	18.99	.05	2467.40
381.	0.	369.	12.	0.	47.	4.	22.	10.	2465.70
.28	.00	7.86	3.43	.000	.055	.060	.000	2464.20	9982.72
.033608	630.	630.	630.	4	11	0	.00	28.07	10010.80

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     FLOOD CONTROL DISTRICT OF MARICOPA CO. - LA027815.H2
T2   100-YEAR FLOOD FREQUENCY MODEL
T3   WILLOW SPRINGS, TRIB. 2  (WST2.DAT)

J1  ICHECK   INQ     NINV    IDIR    STRT    METRIC  HVINS   Q       WSEL    FQ

             4                       .01                             2205.75

J2  NPROF    IPLOT   PRFVS   XSECV   XSECH   FN      ALLDC   IBW     CHNIM   ITRACE

    3                -1
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 CNO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q       QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*PROF 3

CCHV=     .100 CEHV=     .300
*SECNO 1910.000
3720 CRITICAL DEPTH ASSUMED
         PRELIMINARY MULTIPLE PROFILE RUNS
         X-SEC 000 = X-SEC 1.92 ON WILLOW SPR. TRIB 3
         QT VALUES ARE FROM HEC-1 (CVCRK43R.OUT) CP #18
         STRT W.S. ELEV IS FROM X-SEC 1910 ON TRIB 3 (WST3.OUT)

 1910.000     6.79  2205.79  2205.79  2205.75  2207.37     1.58      .00      .00  2205.10
    1492.       1.    1464.      26.       1.     144.      10.       0.       0.   2204.10
      .00     1.48    10.17     2.73     .045     .030     .045     .000  2199.00  9973.93
  .008652       0.       0.       0.        0        5        0      .00    56.03 10029.96


*SECNO 40.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   40.000     4.21  2213.91  2213.91      .00  2215.56     1.65     2.27      .02  2212.90
    1492.       1.    1482.       9.       1.     143.       3.       1.       0.   2211.50
      .01     1.33    10.34     2.88     .045     .030     .045     .000  2209.70  9964.49
  .008818     260.     260.     260.       20       14        0      .00    47.47 10011.96


*SECNO 100.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  100.000     6.15  2220.35  2220.35      .00  2222.43     2.08     2.38      .13  2215.50
    1492.     163.    1262.      67.      35.     101.      16.       2.       1.   2214.80
      .01     4.70    12.44     4.18     .045     .030     .045     .000  2214.20  9973.43
  .006334     320.     320.     320.       20       14        0      .00    39.37 10012.80


*SECNO 200.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  200.000     5.37  2231.67  2231.67      .00  2233.53     1.86     4.24      .02  2228.00
    1492.     145.    1319.      28.      29.     115.       7.       4.       1.   2228.30
      .03     4.97    11.51     4.03     .045     .035     .045     .000  2226.30  9971.44
  .010428     530.     530.     530.       20       11        0      .00    46.21 10017.65
```

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 300.000

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

300.000	2.71	2242.81	2242.81	.00	2243.75	.94	7.22	.09	2241.60
1492.	3.	1477.	12.	1.	190.	4.	6.	2.	2241.50
.05	2.78	7.79	3.34	.045	.040	.045	.000	2240.10	9991.16
.018528	530.	530.	530.	13	8	0	.00	106.02	10097.18

*SECNO 400.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

400.000	5.07	2253.47	2253.47	.00	2254.53	1.05	7.19	.04	2249.20
1492.	83.	1155.	255.	16.	127.	65.	8.	3.	2251.50
.07	5.09	9.07	3.91	.045	.040	.045	.000	2248.40	9981.91
.010360	530.	530.	530.	3	17	0	.00	95.18	10077.09

*SECNO 540.000

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

540.000	6.38	2266.68	2266.68	.00	2268.38	1.70	9.94	.20	2264.70
1492.	32.	1455.	5.	8.	137.	3.	11.	5.	2265.80
.09	4.08	10.59	2.09	.055	.045	.055	.000	2260.30	9977.37
.018097	740.	740.	740.	17	11	0	.00	48.64	10026.01

*SECNO 660.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

660.000	5.27	2280.47	2280.47	.00	2281.76	1.29	9.53	.04	2277.50
1492.	308.	1091.	93.	62.	107.	18.	14.	5.	2276.60
.11	5.00	10.22	5.08	.050	.045	.050	.000	2275.20	9936.42
.012835	630.	630.	630.	4	15	0	.00	73.37	10009.79

```
 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q      QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


3720 CRITICAL DEPTH ASSUMED
 1120.000     4.92  2340.52  2340.52      .00  2341.74     1.21    13.75      .00  2338.10
    891.      127.     738.      25.      27.      78.      6.      21.       9.   2338.10
     .19     4.69     9.48     3.94     .055     .050     .055     .000  2335.60  9966.83
  .018630     740.     740.     740.       18       11       0      .00    49.79 10016.62


*SECNO 1200.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1200.000     4.97  2354.27  2354.27      .00  2355.87     1.61     7.93      .12  2352.00
    891.       36.     855.       0.       9.      83.      0.      22.       9.   2354.90
     .20     3.96    10.35      .00     .055     .045     .000     .000  2349.30  9980.13
  .019137     420.     420.     420.       13        5       0      .00    30.25 10010.38


*SECNO 1310.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
     CRITICAL DEPTH ASSUMED
        QT VALUES ARE FROM HEC-1 (CVCRK43R.OUT) F2B WEIGHTED BY AREA
 1310.000     3.78  2377.08  2377.08      .00  2378.20     1.12    12.28      .05  2375.70
    445.       17.     403.      25.       5.      46.      6.      23.       9.   2374.80
     .22     3.11     8.82     4.14     .060     .055     .060     .000  2373.30  9980.30
  .026334     580.     580.     580.       20       15       0      .00    28.47 10008.77


*SECNO 1380.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1380.000     3.54  2395.54  2395.54      .00  2396.66     1.12    10.30      .00  2394.60
    445.        3.     375.      66.       1.      42.      13.      23.      10.   2392.80
     .23     2.48     9.00     5.10     .060     .055     .060     .000  2392.00  9991.41
  .029448     370.     370.     370.       11       11       0      .00    27.19 10018.61


*SECNO 1490.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1490.000     5.50  2427.70  2427.70      .00  2429.23     1.54    16.16      .12  2422.60
    445.       77.     310.      57.      13.      27.      11.      24.      10.   2424.40
     .25     5.96    11.31     5.22     .060     .055     .060     .000  2422.20  9994.20
  .026408     580.     580.     580.       14       14       0      .00    17.84 10012.05
```

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 1610.000

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1610.000	3.10	2467.30	2467.30	.00	2468.29	.99	18.36	.05	2467.40
445.	0.	427.	18.	0.	53.	5.	25.	10.	2465.70
.27	.00	8.12	3.75	.000	.055	.060	.000	2464.20	9981.93
.032316	630.	630.	630.	9	11	0	.00	29.79	10011.72

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     FLOOD CONTROL DISTRICT OF MARICOPA CO. - LA027815.H2
T2   500-YEAR FLOOD FREQUENCY MODEL
T3   WILLOW SPRINGS, TRIB. 2   (WST2.DAT)

J1  ICHECK   INQ     NINV    IDIR    STRT    METRIC  HVINS   Q       WSEL    FQ

             5                    .01                             2206.37

J2  NPROF    IPLOT   PRFVS   XSECV   XSECH   FN      ALLDC   IBW     CHNIM   ITRACE

    15               -1
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   CNO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q       QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*PROF 4

CCHV=     .100 CEHV=     .300
*SECNO 1910.000
3720 CRITICAL DEPTH ASSUMED
         PRELIMINARY MULTIPLE PROFILE RUNS
         X-SEC 000 = X-SEC 1.92 ON WILLOW SPR. TRIB 3
         QT VALUES ARE FROM HEC-1 (CVCRK43R.OUT) CP #18
         STRT W.S. ELEV IS FROM X-SEC 1910 ON TRIB 3 (WST3.OUT)

 1910.000     7.39  2206.39  2206.39  2206.37  2208.10     1.71      .00      .00  2205.10
    1866.       7.    1802.      57.       3.     169.      18.       0.       0.   2204.10
      .00     2.11    10.66     3.23     .045     .030     .045     .000  2199.00  9971.62
  .007677       0.       0.       0.        0        5        0      .00    61.87 10033.48


*SECNO 40.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    .000     4.76  2214.46  2214.46      .00  2216.34     1.89     2.07      .05  2212.90
    1866.       5.    1846.      15.       2.     167.       5.       1.       0.   2211.50
      .01     2.09    11.08     3.19     .045     .030     .045     .000  2209.70  9963.04
  .008290     260.     260.     260.       20       14        0      .00    49.52 10012.56


*SECNO 100.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  100.000     6.96  2221.16  2221.16      .00  2223.39     2.23     2.21      .10  2215.50
    1866.     256.    1517.      93.      50.     116.      21.       2.       1.   2214.80
      .01     5.11    13.08     4.40     .045     .030     .045     .000  2214.20  9966.72
  .005853     320.     320.     320.       20       11        0      .00    46.93 10013.65


*SECNO 200.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  200.000     6.13  2232.43  2232.43      .00  2234.35     1.92     3.79      .03  2228.00
    1866.     230.    1591.      45.      42.     134.      10.       5.       1.   2228.30
      .03     5.44    11.84     4.27     .045     .035     .045     .000  2226.30  9968.49
  .008923     530.     530.     530.       20       15        0      .00    50.09 10018.58
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 300.000

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

300.000	3.00	2243.10	2243.10	.00	2244.20	1.10	6.53	.08	2241.60
1866.	5.	1841.	20.	2.	218.	5.	7.	2.	2241.50
.05	3.17	8.45	3.76	.045	.040	.045	.000	2240.10	9990.78
.018100	530.	530.	530.	15	8	0	.00	107.60	10098.38

*SECNO 400.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

400.000	5.45	2253.85	2253.85	.00	2255.02	1.17	7.18	.02	2249.20
1866.	104.	1363.	399.	19.	140.	86.	10.	3.	2251.50
.06	5.42	9.74	4.64	.045	.040	.045	.000	2248.40	9981.24
.010518	530.	530.	530.	4	14	0	.00	98.14	10079.38

*SECNO 540.000

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

540.000	7.00	2267.30	2267.30	.00	2269.17	1.87	9.64	.21	2264.70
1866.	61.	1784.	21.	13.	159.	7.	14.	5.	2265.80
.08	4.87	11.19	2.84	.055	.045	.055	.000	2260.30	9976.06
.016556	740.	740.	740.	15	11	0	.00	54.03	10030.08

*SECNO 660.000

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

660.000	5.78	2280.98	2280.98	.00	2282.35	1.37	8.94	.05	2277.50
1866.	461.	1272.	134.	84.	119.	24.	17.	6.	2276.60
.10	5.49	10.73	5.61	.050	.045	.050	.000	2275.20	9929.97
.012291	630.	630.	630.	9	16	0	.00	82.25	10012.22

```
 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q      QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 740.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
         CONFLUENCE WITH WILLOW SPR. TRIB. 2A
         QT VALUES ARE FROM HEC-1 (CVCRK43R.OUT) CP F2B
  740.000     5.64  2292.34  2292.34      .00  2293.70     1.36     6.29      .00  2288.00
    1114.     121.     935.      58.      21.      94.      17.      18.       6.   2290.80
      .11     5.78     9.96     3.46     .060     .050     .060     .000  2286.70  9986.26
  .021943     420.     420.     420.       20        5        0      .00    56.86 10043.12


*SECNO 820.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  820.000     5.29  2303.69  2303.69      .00  2305.14     1.45     8.92      .03  2302.40
    1114.      12.     1072.      30.       4.     109.       7.      20.       7.   2299.50
      .13     2.85     9.82     4.52     .055     .045     .055     .000  2298.40  9961.97
  .020560     420.     420.     420.        4       11        0      .00    45.69 10007.66


*SECNO 910.000

3301 HV CHANGED MORE THAN HVINS

  910.000     2.79  2314.69      .00      .00  2315.31      .62    10.09      .08  2313.10
    1114.     809.     288.      17.     139.      38.       5.      21.       8.   2312.70
      .15     5.80     7.65     3.48     .060     .050     .060     .000  2311.90  9921.55
  .021941     475.     475.     475.        4        0        0      .00    93.46 10015.01


*SECNO 980.000

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  980.000     4.51  2321.71  2321.71      .00  2323.11     1.40     7.41      .23  2319.40
    1114.      23.     1053.      38.       6.     108.      10.      22.       8.   2319.60
      .16     3.79     9.71     3.73     .055     .045     .055     .000  2317.20  9980.68
  .018337     370.     370.     370.        4       14        0      .00    48.34 10029.03
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 CNO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q       QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
 SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*SECNO 1120.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1120.000     5.37  2340.97  2340.97      .00  2342.28     1.31    13.40      .01  2338.10
    1114.      198.     877.      39.      39.      87.      9.      25.       9.   2338.10
      .18     5.13    10.03     4.32     .055     .050     .055     .000  2335.60  9962.14
  .017875     740.     740.     740.       14       11        0      .00    55.46 10017.61


*SECNO 1200.000

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1200.000     5.51  2354.81  2354.81      .00  2356.62     1.81     7.77      .15  2352.00
    1114.       63.     1051.       0.      14.      95.      0.      26.      10.   2354.90
      .19     4.57    11.07      .00     .055     .045     .000     .000  2349.30  9978.23
  .019180     420.     420.     420.       14        8        0      .00    32.94 10011.17


*SECNO 1310.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
         QT VALUES ARE FROM HEC-1 (CVCRK43R.OUT) F2B WEIGHTED BY AREA
 1310.000     4.20  2377.50  2377.50      .00  2378.71     1.21    12.05      .06  2375.70
     557.       33.     486.      38.       9.      52.      8.      27.      10.   2374.80
      .21     3.59     9.32     4.48     .060     .055     .060     .000  2373.30  9977.92
  .024621     580.     580.     580.       20       15        0      .00    31.82 10009.74


*SECNO 1380.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1380.000     3.90  2395.90  2395.90      .00  2397.18     1.28     9.91      .02  2394.60
     557.        8.     457.      92.       3.      47.      17.      28.      10.   2392.80
      .22     3.07     9.72     5.52     .060     .055     .060     .000  2392.00  9990.30
  .029218     370.     370.     370.       12        8        0      .00    29.56 10019.86
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*SECNO 1490.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1490.000     6.01  2428.21  2428.21      .00  2429.94     1.73    16.13      .13  2422.60
     557.     100.     373.      84.      16.      31.      15.      28.      11.   2424.40
      .24     6.36    12.18     5.76     .060     .055     .060     .000  2422.20  9993.69
  .026498     580.     580.     580.       16       14        0      .00    19.39 10013.08


*SECNO 1610.000

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1610.000     3.44  2467.64  2467.64      .00  2468.76     1.12    18.08      .06  2467.40
     557.       0.     527.      30.       0.      61.       7.      29.      11.   2465.70
      .26      .04     8.69     4.19     .060     .055     .060     .000  2464.20  9981.26
  .031173     630.     630.     630.        9       11        0      .00    31.75 10013.01
```

THIS RUN EXECUTED 2/26/90 16:28:13

****
HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989

ERROR CORR - 01,02,03
MODIFICATION -
****

NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

WILLOW SPRINGS, TRIB. 2

SUMMARY PRINTOUT

	SECNO	CWSEL	Q	DEPTH	VLOB	VCH	VROB	QLOB	QCH	QROB	TOPWID	10*KS	DIFWSX
	1910.000	2204.55	856.00	5.55	.00	9.11	1.20	.00	855.17	.82	38.15	98.22	.00
*	1910.000	2205.44	1275.00	6.44	.95	9.75	2.41	.21	1260.16	14.63	52.29	91.85	.00
*	1910.000	2205.79	1492.00	6.79	1.48	10.17	2.73	1.37	1464.19	26.44	56.03	86.52	.00
	1910.000	2206.39	1866.00	7.39	2.11	10.66	3.23	6.79	1802.00	57.20	61.87	76.77	.00
*	40.000	2212.88	856.00	3.18	.00	8.62	2.11	.00	853.79	2.21	44.20	100.10	8.33
*	40.000	2213.57	1275.00	3.87	.78	9.86	2.66	.18	1268.52	6.29	46.17	92.61	8.13
*	40.000	2213.91	1492.00	4.21	1.33	10.34	2.88	1.02	1481.74	9.24	47.47	88.18	8.12
*	40.000	2214.46	1866.00	4.76	2.09	11.08	3.19	4.70	1845.90	15.40	49.52	82.90	8.07
*	100.000	2218.68	856.00	4.48	3.79	10.80	3.61	56.26	771.28	28.47	31.40	76.27	5.80
*	100.000	2219.76	1275.00	5.56	4.41	12.16	4.08	117.65	1104.81	52.54	35.70	70.10	6.19
*	100.000	2220.35	1492.00	6.15	4.70	12.44	4.18	162.92	1261.76	67.32	39.37	63.34	6.44
*	100.000	2221.16	1866.00	6.96	5.11	13.08	4.40	255.52	1517.39	93.09	46.93	58.53	6.70
*	200.000	2230.45	856.00	4.15	3.96	9.66	3.12	51.14	796.03	8.83	39.40	113.91	11.76
*	200.000	2231.35	1275.00	5.05	4.60	10.77	3.72	111.37	1142.41	21.22	44.40	101.26	11.59
*	200.000	2231.67	1492.00	5.37	4.97	11.51	4.03	144.79	1318.98	28.23	46.21	104.28	11.32
*	200.000	2232.43	1866.00	6.13	5.44	11.84	4.27	230.16	1591.09	44.76	50.09	89.23	11.27
*	300.000	2242.21	856.00	2.11	1.91	6.57	2.40	.48	852.98	2.53	102.69	217.63	11.77
*	300.000	2242.62	1275.00	2.52	2.54	7.44	3.07	1.77	1265.23	8.00	104.93	195.12	11.27
*	300.000	2242.81	1492.00	2.71	2.78	7.79	3.34	2.77	1477.21	12.02	106.02	185.28	11.14
*	300.000	2243.10	1866.00	3.00	3.17	8.45	3.76	4.80	1841.10	20.09	107.60	181.00	10.67
*	400.000	2252.47	856.00	4.07	4.76	8.26	2.32	45.22	771.46	39.33	74.45	129.50	10.26
*	400.000	2253.19	1275.00	4.79	4.95	8.78	3.39	70.16	1033.92	170.93	92.98	107.39	10.58
*	400.000	2253.47	1492.00	5.07	5.09	9.07	3.91	82.54	1154.55	254.91	95.18	103.60	10.66
	400.000	2253.85	1866.00	5.45	5.42	9.74	4.64	104.17	1363.00	398.83	98.14	105.18	10.75
*	540.000	2265.41	856.00	5.11	1.99	9.27	.00	2.05	853.95	.00	37.37	224.68	12.94
*	540.000	2266.29	1275.00	5.99	3.38	10.18	1.46	17.58	1256.27	1.15	45.24	192.74	13.10
*	540.000	2266.68	1492.00	6.38	4.08	10.59	2.09	31.72	1454.96	5.33	48.64	180.97	13.21
*	540.000	2267.30	1866.00	7.00	4.87	11.19	2.84	60.98	1784.01	21.02	54.03	165.56	13.45

	SECNO	CWSEL	Q	DEPTH	VLOB	VCH	VROB	QLOB	QCH	QROB	TOPWID	10*KS	DIFWSX
*	660.000	2279.42	856.00	4.22	3.37	8.80	4.11	88.70	727.46	39.83	57.28	133.68	14.02
*	660.000	2280.16	1275.00	4.96	4.59	9.77	4.70	228.53	974.07	72.41	68.36	128.54	13.87
*	660.000	2280.47	1492.00	5.27	5.00	10.22	5.08	308.04	1091.37	92.59	73.37	128.35	13.79
*	660.000	2280.98	1866.00	5.78	5.49	10.73	5.61	460.53	1271.77	133.70	82.25	122.91	13.68
*	740.000	2290.92	511.00	4.22	5.24	8.29	.66	49.63	461.28	.10	35.93	305.76	11.50
*	740.000	2291.60	762.00	4.90	5.45	9.07	2.51	78.44	670.96	12.60	46.31	250.30	11.44
*	740.000	2291.90	891.00	5.20	5.55	9.39	2.93	93.84	770.86	26.29	50.60	233.42	11.43
*	740.000	2292.34	1114.00	5.64	5.78	9.96	3.46	120.87	935.42	57.71	56.86	219.43	11.36
*	820.000	2302.53	511.00	4.13	.04	7.40	3.79	.00	497.88	13.12	39.02	222.81	11.61
*	820.000	2302.99	762.00	4.59	1.82	8.81	4.28	1.60	740.69	19.70	41.70	234.41	11.40
*	820.000	2303.26	891.00	4.86	2.27	9.20	4.37	4.21	863.46	23.33	43.24	221.29	11.36
*	820.000	2303.69	1114.00	5.29	2.85	9.82	4.52	11.83	1072.23	29.94	45.69	205.60	11.35
	910.000	2313.89	511.00	1.99	4.34	5.96	2.56	359.24	147.18	4.58	89.44	234.22	11.36
	910.000	2314.29	762.00	2.39	4.92	6.59	2.93	546.84	205.78	9.38	91.47	208.83	11.30
	910.000	2314.44	891.00	2.54	5.27	7.01	3.15	642.67	236.25	12.08	92.23	213.97	11.18
	910.000	2314.69	1114.00	2.79	5.80	7.65	3.48	808.66	288.01	17.33	93.46	219.41	11.00
	980.000	2320.64	511.00	3.44	2.32	6.87	2.16	4.10	501.46	5.44	41.11	155.98	6.75
	980.000	2321.09	762.00	3.89	3.07	8.41	2.95	9.90	737.17	14.93	44.10	182.88	6.79
	980.000	2321.32	891.00	4.12	3.37	8.96	3.27	14.05	854.85	22.10	45.68	185.34	6.88
	980.000	2321.71	1114.00	4.51	3.79	9.71	3.73	22.88	1053.20	37.91	48.34	183.37	7.02
*	1120.000	2339.56	511.00	3.96	3.25	8.22	2.98	31.29	472.70	7.01	37.68	209.44	18.92
*	1120.000	2340.23	762.00	4.63	4.36	9.12	3.67	90.59	653.14	18.27	46.09	192.37	19.14
*	1120.000	2340.52	891.00	4.92	4.69	9.48	3.94	127.35	738.29	25.36	49.79	186.30	19.20
*	1120.000	2340.97	1114.00	5.37	5.13	10.03	4.32	198.28	876.61	39.10	55.46	178.75	19.26
*	1200.000	2352.99	511.00	3.69	2.47	9.15	.00	4.26	506.74	.00	23.90	223.60	13.43
*	1200.000	2353.85	762.00	4.55	3.57	10.07	.00	21.50	740.49	.00	28.18	203.31	13.62
*	1200.000	2354.27	891.00	4.97	3.96	10.35	.00	35.76	855.24	.00	30.25	191.37	13.74
*	1200.000	2354.81	1114.00	5.51	4.57	11.07	.00	63.33	1050.67	.00	32.94	191.80	13.84
*	1310.000	2376.17	255.00	2.87	1.71	7.77	3.32	1.07	246.72	7.21	21.24	332.23	23.18
*	1310.000	2376.80	381.00	3.50	2.76	8.52	3.92	9.49	353.36	18.15	26.27	279.78	22.95
*	1310.000	2377.08	445.00	3.78	3.11	8.82	4.14	16.71	403.43	24.86	28.47	263.34	22.81
*	1310.000	2377.50	557.00	4.20	3.59	9.32	4.48	32.84	486.40	37.75	31.82	246.21	22.69
*	1380.000	2394.69	255.00	2.69	.05	7.83	4.40	.00	227.78	27.22	21.62	360.48	18.52
*	1380.000	2395.28	381.00	3.28	2.05	8.65	4.90	1.45	327.36	52.19	25.48	309.99	18.47
*	1380.000	2395.54	445.00	3.54	2.48	9.00	5.10	3.36	375.20	66.43	27.19	294.48	18.46
*	1380.000	2395.90	557.00	3.90	3.07	9.72	5.52	7.98	456.94	92.08	29.56	292.18	18.40
*	1490.000	2426.50	255.00	4.30	5.28	9.75	4.09	40.19	196.59	18.22	14.24	296.14	31.81
*	1490.000	2427.33	381.00	5.13	5.76	10.85	4.90	64.51	273.96	42.53	16.75	271.89	32.06
*	1490.000	2427.70	445.00	5.50	5.96	11.31	5.22	77.37	310.48	57.15	17.84	264.08	32.16
*	1490.000	2428.21	557.00	6.01	6.36	12.18	5.76	100.17	372.53	84.30	19.39	264.98	32.31

	SECNO	CWSEL	Q	DEPTH	VLOB	VCH	VROB	QLOB	QCH	QROB	TOPWID	10*KS	DIFWSX
*	1610.000	2466.52	255.00	2.32	.00	7.16	2.57	.00	251.68	3.32	24.26	368.52	40.02
*	1610.000	2467.06	381.00	2.86	.00	7.86	3.43	.00	368.89	12.10	28.07	336.08	39.72
*	1610.000	2467.30	445.00	3.10	.00	8.12	3.75	.00	426.65	18.35	29.79	323.16	39.60
*	1610.000	2467.64	557.00	3.44	.04	8.69	4.19	.00	526.96	30.04	31.75	311.73	39.43

W SPRINGS, TRIB. 2

SUMMARY PRINTOUT TABLE 150

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
	1910.000	.00	.00	.00	2199.00	856.00	2204.55	2204.51	2205.84	98.22	9.11	94.55	86.37
*	1910.000	.00	.00	.00	2199.00	1275.00	2205.44	2205.44	2206.90	91.85	9.75	135.59	133.04
*	1910.000	.00	.00	.00	2199.00	1492.00	2205.79	2205.79	2207.37	86.52	10.17	154.65	160.40
*	1910.000	.00	.00	.00	2199.00	1866.00	2206.39	2206.39	2208.10	76.77	10.66	190.04	212.97
*	40.000	260.00	.00	.00	2209.70	856.00	2212.88	2212.88	2214.03	100.10	8.62	100.06	85.56
*	40.000	260.00	.00	.00	2209.70	1275.00	2213.57	2213.57	2215.07	92.61	9.86	131.26	132.49
*	40.000	260.00	.00	.00	2209.70	1492.00	2213.91	2213.91	2215.56	88.18	10.34	147.30	158.88
*	40.000	260.00	.00	.00	2209.70	1866.00	2214.46	2214.46	2216.34	82.90	11.08	173.65	204.95
*	100.000	320.00	.00	.00	2214.20	856.00	2218.68	2218.68	2220.33	76.27	10.80	94.14	98.02
*	100.000	320.00	.00	.00	2214.20	1275.00	2219.76	2219.76	2221.79	70.10	12.16	130.39	152.28
*	100.000	320.00	.00	.00	2214.20	1492.00	2220.35	2220.35	2222.43	63.34	12.44	152.23	187.47
*	100.000	320.00	.00	.00	2214.20	1866.00	2221.16	2221.16	2223.39	58.53	13.08	187.20	243.90
*	200.000	530.00	.00	.00	2226.30	856.00	2230.45	2230.45	2231.81	113.91	9.66	98.17	80.20
*	200.000	530.00	.00	.00	2226.30	1275.00	2231.35	2231.35	2232.99	101.26	10.77	135.96	126.70
*	200.000	530.00	.00	.00	2226.30	1492.00	2231.67	2231.67	2233.53	104.28	11.51	150.72	146.11
	200.000	530.00	.00	.00	2226.30	1866.00	2232.43	2232.43	2234.35	89.23	11.84	187.14	197.54
*	300.000	530.00	.00	.00	2240.10	856.00	2242.21	2242.21	2242.88	217.63	6.57	131.23	58.02
*	300.000	530.00	.00	.00	2240.10	1275.00	2242.62	2242.62	2243.47	195.12	7.44	173.38	91.28
*	300.000	530.00	.00	.00	2240.10	1492.00	2242.81	2242.81	2243.75	185.28	7.79	194.16	109.61
*	300.000	530.00	.00	.00	2240.10	1866.00	2243.10	2243.10	2244.20	181.00	8.45	224.72	138.70
*	400.000	530.00	.00	.00	2248.40	856.00	2252.47	2252.47	2253.45	129.50	8.26	119.89	75.22
*	400.000	530.00	.00	.00	2248.40	1275.00	2253.19	2253.19	2254.21	107.39	8.78	182.33	123.03
*	400.000	530.00	.00	.00	2248.40	1492.00	2253.47	2253.47	2254.53	103.60	9.07	208.66	146.58
*	400.000	530.00	.00	.00	2248.40	1866.00	2253.85	2253.85	2255.02	105.18	9.74	245.05	181.95
*	540.000	740.00	.00	.00	2260.30	856.00	2265.41	2265.41	2266.74	224.68	9.27	93.11	57.11
*	540.000	740.00	.00	.00	2260.30	1275.00	2266.29	2266.29	2267.88	192.74	10.18	129.43	91.84
*	540.000	740.00	.00	.00	2260.30	1492.00	2266.68	2266.68	2268.38	180.97	10.59	147.71	110.91
*	540.000	740.00	.00	.00	2260.30	1866.00	2267.30	2267.30	2269.17	165.56	11.19	179.36	145.02
*	660.000	630.00	.00	.00	2275.20	856.00	2279.42	2279.42	2280.48	133.68	8.80	118.69	74.04
*	660.000	630.00	.00	.00	2275.20	1275.00	2280.16	2280.16	2281.37	128.54	9.77	164.90	112.46
*	660.000	630.00	.00	.00	2275.20	1492.00	2280.47	2280.47	2281.76	128.35	10.22	186.60	131.69
*	660.000	630.00	.00	.00	2275.20	1866.00	2280.98	2280.98	2282.35	122.91	10.73	226.32	168.31
*	740.000	420.00	.00	.00	2286.70	511.00	2290.92	2290.92	2291.92	305.76	8.29	65.26	29.22
*	740.000	420.00	.00	.00	2286.70	762.00	2291.60	2291.60	2292.77	250.30	9.07	93.39	48.16
*	740.000	420.00	.00	.00	2286.70	891.00	2291.90	2291.90	2293.14	233.42	9.39	107.98	58.32
*	740.000	420.00	.00	.00	2286.70	1114.00	2292.34	2292.34	2293.70	219.43	9.96	131.52	75.20

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
*	820.000	420.00	.00	.00	2298.40	511.00	2302.53	2302.53	2303.36	222.81	7.40	70.78	34.23
*	820.000	420.00	.00	.00	2298.40	762.00	2302.99	2302.99	2304.17	234.41	8.81	89.58	49.77
*	820.000	420.00	.00	.00	2298.40	891.00	2303.26	2303.26	2304.55	221.29	9.20	101.01	59.90
*	820.000	420.00	.00	.00	2298.40	1114.00	2303.69	2303.69	2305.14	205.60	9.82	119.97	77.69
	910.000	475.00	.00	.00	2311.90	511.00	2313.89	.00	2314.26	234.22	5.96	109.26	33.39
	910.000	475.00	.00	.00	2311.90	762.00	2314.29	.00	2314.75	208.83	6.59	145.63	52.73
	910.000	475.00	.00	.00	2311.90	891.00	2314.44	.00	2314.96	213.97	7.01	159.45	60.91
	910.000	475.00	.00	.00	2311.90	1114.00	2314.69	.00	2315.31	219.41	7.65	182.05	75.21
	980.000	370.00	.00	.00	2317.20	511.00	2320.64	.00	2321.37	155.98	6.87	77.23	40.91
	980.000	370.00	.00	.00	2317.20	762.00	2321.09	2321.01	2322.15	182.88	8.41	95.91	56.35
	980.000	370.00	.00	.00	2317.20	891.00	2321.32	2321.28	2322.52	185.34	8.96	106.31	65.45
*	980.000	370.00	.00	.00	2317.20	1114.00	2321.71	2321.71	2323.11	183.37	9.71	124.65	82.27
*	1120.000	740.00	.00	.00	2335.60	511.00	2339.56	2339.56	2340.55	209.44	8.22	69.52	35.31
*	1120.000	740.00	.00	.00	2335.60	762.00	2340.23	2340.23	2341.38	192.37	9.12	97.41	54.94
*	1120.000	740.00	.00	.00	2335.60	891.00	2340.52	2340.52	2341.74	186.30	9.48	111.45	65.28
*	1120.000	740.00	.00	.00	2335.60	1114.00	2340.97	2340.97	2342.28	178.75	10.03	135.11	83.32
*	1200.000	420.00	.00	.00	2349.30	511.00	2352.99	2352.99	2354.28	223.60	9.15	57.13	34.17
*	1200.000	420.00	.00	.00	2349.30	762.00	2353.85	2353.85	2355.39	203.31	10.07	79.54	53.44
*	1200.000	420.00	.00	.00	2349.30	891.00	2354.27	2354.27	2355.87	191.37	10.35	91.66	64.41
*	1200.000	420.00	.00	.00	2349.30	1114.00	2354.81	2354.81	2356.62	191.80	11.07	108.74	80.44
*	1310.000	580.00	.00	.00	2373.30	255.00	2376.17	2376.17	2377.08	332.23	7.77	34.56	13.99
*	1310.000	580.00	.00	.00	2373.30	381.00	2376.80	2376.80	2377.86	279.78	8.52	49.56	22.78
*	1310.000	580.00	.00	.00	2373.30	445.00	2377.08	2377.08	2378.20	263.34	8.82	57.12	27.42
*	1310.000	580.00	.00	.00	2373.30	557.00	2377.50	2377.50	2378.71	246.21	9.32	69.80	35.50
*	1380.000	370.00	.00	.00	2392.00	255.00	2394.69	2394.69	2395.57	360.48	7.83	35.27	13.43
*	1380.000	370.00	.00	.00	2392.00	381.00	2395.28	2395.28	2396.33	309.99	8.65	49.19	21.64
*	1380.000	370.00	.00	.00	2392.00	445.00	2395.54	2395.54	2396.66	294.48	9.00	56.06	25.93
*	1380.000	370.00	.00	.00	2392.00	557.00	2395.90	2395.90	2397.18	292.18	9.72	66.31	32.59
*	1490.000	580.00	.00	.00	2422.20	255.00	2426.50	2426.50	2427.73	296.14	9.75	32.22	14.82
*	1490.000	580.00	.00	.00	2422.20	381.00	2427.33	2427.33	2428.78	271.89	10.85	45.13	23.11
*	1490.000	580.00	.00	.00	2422.20	445.00	2427.70	2427.70	2429.23	264.08	11.31	51.38	27.38
*	1490.000	580.00	.00	.00	2422.20	557.00	2428.21	2428.21	2429.94	264.98	12.18	60.96	34.22
*	1610.000	630.00	.00	.00	2464.20	255.00	2466.52	2466.52	2467.31	368.52	7.16	36.42	13.28
*	1610.000	630.00	.00	.00	2464.20	381.00	2467.06	2467.06	2467.99	336.08	7.86	50.46	20.78
*	1610.000	630.00	.00	.00	2464.20	445.00	2467.30	2467.30	2468.29	323.16	8.12	57.43	24.75
*	1610.000	630.00	.00	.00	2464.20	557.00	2467.64	2467.64	2468.76	311.73	8.69	67.84	31.55

SPRINGS, TRIB. 2

SUMMARY PRINTOUT TABLE 150

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	1910.000	856.00	2204.55	.00	.00	.00	38.15	.00
*	1910.000	1275.00	2205.44	.89	.00	.03	52.29	.00
*	1910.000	1492.00	2205.79	.35	.00	.04	56.03	.00
*	1910.000	1866.00	2206.39	.60	.00	.02	61.87	.00
*	40.000	856.00	2212.88	.00	8.33	.00	44.20	260.00
*	40.000	1275.00	2213.57	.69	8.13	.00	46.17	260.00
*	40.000	1492.00	2213.91	.34	8.12	.00	47.47	260.00
*	40.000	1866.00	2214.46	.54	8.07	.00	49.52	260.00
*	100.000	856.00	2218.68	.00	5.80	.00	31.40	320.00
*	100.000	1275.00	2219.76	1.08	6.19	.00	35.70	320.00
*	100.000	1492.00	2220.35	.59	6.44	.00	39.37	320.00
*	100.000	1866.00	2221.16	.81	6.70	.00	46.93	320.00
*	200.000	856.00	2230.45	.00	11.76	.00	39.40	530.00
*	200.000	1275.00	2231.35	.90	11.59	.00	44.40	530.00
*	200.000	1492.00	2231.67	.33	11.32	.00	46.21	530.00
*	200.000	1866.00	2232.43	.76	11.27	.00	50.09	530.00
*	300.000	856.00	2242.21	.00	11.77	.00	102.69	530.00
*	300.000	1275.00	2242.62	.41	11.27	.00	104.93	530.00
*	300.000	1492.00	2242.81	.20	11.14	.00	106.02	530.00
*	300.000	1866.00	2243.10	.29	10.67	.00	107.60	530.00
*	400.000	856.00	2252.47	.00	10.26	.00	74.45	530.00
*	400.000	1275.00	2253.19	.72	10.58	.00	92.98	530.00
*	400.000	1492.00	2253.47	.28	10.66	.00	95.18	530.00
*	400.000	1866.00	2253.85	.38	10.75	.00	98.14	530.00
*	540.000	856.00	2265.41	.00	12.94	.00	37.37	740.00
*	540.000	1275.00	2266.29	.88	13.10	.00	45.24	740.00
*	540.000	1492.00	2266.68	.39	13.21	.00	48.64	740.00
*	540.000	1866.00	2267.30	.62	13.45	.00	54.03	740.00
*	660.000	856.00	2279.42	.00	14.02	.00	57.28	630.00
*	660.000	1275.00	2280.16	.74	13.87	.00	68.36	630.00
*	660.000	1492.00	2280.47	.31	13.79	.00	73.37	630.00
*	660.000	1866.00	2280.98	.51	13.68	.00	82.25	630.00
*	740.000	511.00	2290.92	.00	11.50	.00	35.93	420.00
*	740.000	762.00	2291.60	.68	11.44	.00	46.31	420.00
*	740.000	891.00	2291.90	.30	11.43	.00	50.60	420.00
*	740.000	1114.00	2292.34	.44	11.36	.00	56.86	420.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	820.000	511.00	2302.53	.00	11.61	.00	39.02	420.00
*	820.000	762.00	2302.99	.47	11.40	.00	41.70	420.00
*	820.000	891.00	2303.26	.27	11.36	.00	43.24	420.00
*	820.000	1114.00	2303.69	.43	11.35	.00	45.69	420.00
	910.000	511.00	2313.89	.00	11.36	.00	89.44	475.00
	910.000	762.00	2314.29	.40	11.30	.00	91.47	475.00
	910.000	891.00	2314.44	.15	11.18	.00	92.23	475.00
	910.000	1114.00	2314.69	.25	11.00	.00	93.46	475.00
	980.000	511.00	2320.64	.00	6.75	.00	41.11	370.00
	980.000	762.00	2321.09	.44	6.79	.00	44.10	370.00
	980.000	891.00	2321.32	.23	6.88	.00	45.68	370.00
*	980.000	1114.00	2321.71	.39	7.02	.00	48.34	370.00
*	1120.000	511.00	2339.56	.00	18.92	.00	37.68	740.00
*	1120.000	762.00	2340.23	.67	19.14	.00	46.09	740.00
*	1120.000	891.00	2340.52	.29	19.20	.00	49.79	740.00
*	1120.000	1114.00	2340.97	.45	19.26	.00	55.46	740.00
*	1200.000	511.00	2352.99	.00	13.43	.00	23.90	420.00
*	1200.000	762.00	2353.85	.86	13.62	.00	28.18	420.00
*	1200.000	891.00	2354.27	.41	13.74	.00	30.25	420.00
	1200.000	1114.00	2354.81	.54	13.84	.00	32.94	420.00
*	1310.000	255.00	2376.17	.00	23.18	.00	21.24	580.00
*	1310.000	381.00	2376.80	.63	22.95	.00	26.27	580.00
*	1310.000	445.00	2377.08	.28	22.81	.00	28.47	580.00
*	1310.000	557.00	2377.50	.42	22.69	.00	31.82	580.00
*	1380.000	255.00	2394.69	.00	18.52	.00	21.62	370.00
*	1380.000	381.00	2395.28	.59	18.47	.00	25.48	370.00
*	1380.000	445.00	2395.54	.26	18.46	.00	27.19	370.00
*	1380.000	557.00	2395.90	.36	18.40	.00	29.56	370.00
*	1490.000	255.00	2426.50	.00	31.81	.00	14.24	580.00
*	1490.000	381.00	2427.33	.83	32.06	.00	16.75	580.00
*	1490.000	445.00	2427.70	.36	32.16	.00	17.84	580.00
*	1490.000	557.00	2428.21	.51	32.31	.00	19.39	580.00
*	1610.000	255.00	2466.52	.00	40.02	.00	24.26	630.00
*	1610.000	381.00	2467.06	.54	39.72	.00	28.07	630.00
*	1610.000	445.00	2467.30	.24	39.60	.00	29.79	630.00
*	1610.000	557.00	2467.64	.34	39.43	.00	31.75	630.00

SUMMARY OF ERRORS AND SPECIAL NOTES

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CAUTION SECNO=   1910.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
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CAUTION SECNO=  1310.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=  1380.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=  1380.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=  1380.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=  1380.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=  1380.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=  1380.000  PROFILE=  3  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=  1380.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=  1380.000  PROFILE=  4  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=  1490.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=  1490.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=  1490.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=  1490.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=  1490.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=  1490.000  PROFILE=  3  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=  1490.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=  1490.000  PROFILE=  4  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=  1610.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=  1610.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=  1610.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=  1610.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=  1610.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=  1610.000  PROFILE=  3  MINIMUM SPECIFIC ENERGY
```

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CAUTION SECNO=   1610.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1610.000  PROFILE=  4  MINIMUM SPECIFIC ENERGY

Stop - Program terminated.

Stop - Program terminated.
```

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*****************************************************
*  WATER SURFACE PROFILES                           *
*  VERSION OF SEPTEMBER 1988                        *
*  ERROR: 01,02,03                                  *
*  DATED:  SEPTEMBER 1989                           *
*  RUN DATE     3/23/90    TIME    13:16:37         *
*****************************************************
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****************************************
*  U.S. ARMY CORPS OF ENGINEERS
*  THE HYDROLOGIC ENGINEERING CENTER
*  609 SECOND STREET, SUITE D
*  DAVIS, CALIFORNIA 95616-4687
*           (916) 756-1104
****************************************
```

```
X     X  XXXXXXX   XXXXX              XXXXX
X     X  X        X     X            X     X
X     X  X        X                        X
XXXXXXX  XXXX     X          XXXXX    XXXXX
X     X  X        X                  X
X     X  X        X     X            X
X     X  XXXXXXX   XXXXX             XXXXXXX
```

END OF BANNER

THIS RUN EXECUTED 3/23/90 13:16:37

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**************************************************
 HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989


 ERROR CORR -  01,02,03
 MODIFICATION -
**************************************************


T1        FLOOD CONTROL DISTRICT OF MARICOPA CO. - LA027815.H2
T2        100-YEAR FLOOD FREQUENCY MODEL (NATURAL CONDITIONS)
T3        WILLOW SPR. TRIB. 2    (WST2.MCE)

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

               2                                                          2205.75

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

     1                 -1


    ARIABLE CODES FOR SUMMARY PRINTOUT

    38        43        26         8        42        39         1        34         4        53
    21        22        54         0        38        43         1        50        51        27
    21        22        28         5         3        61       200

J5  LPRNT    NUMSEC                    ********REQUESTED SECTION NUMBERS********

   -10       -10

QT       2      1492      1492
NC    .045      .045       .03        .1        .3
ET                        9.1                                                          9976.6    10018.5
         THIS ENCROACHMENT MODEL IS BASED ON 100-YEAR NATURAL CONDITIONS.
         REFER TO FILE WST2.OUT (CH2M HILL, 1990)

X1     1910        15    9976.6   10018.5
GR   2218.9    9891.3    2215.3    9927.8    2212.7    9946.7    2209.4    9960.0    2205.1    9976.6
GR   2204.0    9990.2    2199.5    9997.7    2199.0   10000.0    2201.4   10010.0    2204.1   10018.5
GR   2206.3   10033.4    2209.5   10036.4    2216.9   10057.7    2220.7   10067.2    2220.7   10068.5

ET                        9.1                                                          9966.5    10009.3
X1       40        15    9966.5   10009.3       260       260       260
GR   2227.7    9864.5    2227.1    9881.7    2227.6    9896.8    2225.6    9918.9    2220.6    9938.8
GR   2217.5    9954.9    2213.2    9966.4    2212.9    9966.5    2209.9    9982.3    2209.7   10000.0
     2211.5   10009.3    2222.2   10021.1    2224.9   10038.1    2225.6   10061.5    2225.6   10072.1
```

ET			9.1						9987.0	10007.0
X1	100	11	9989.0	10007.0	320	320	320			
GR	2232.9	9911.0	2230.9	9926.6	2223.2	9947.4	2221.9	9960.6	2220.1	9975.5
GR	2215.5	9989.0	2214.2	10000.0	2214.8	10007.0	2223.5	10016.1	2228.0	10034.0
GR	2232.0	10047.4								
NC	.045	.045	.035							
ET			9.1						9987.3	10013.5
X1	200	12	9987.3	10013.5	530	530	530			
GR	2243.7	9866.3	2242.3	9909.2	2240.3	9937.5	2235.7	9957.4	2232.1	9969.6
GR	2228.0	9987.3	2226.8	9998.5	2226.3	10000.0	2228.3	10013.5	2235.7	10022.6
GR	2242.9	10038.3	2246.0	10046.7						
NC	.045	.045	.04							
ET			9.1						9992.8	10091.7
X1	300	21	9992.8	10091.7	530	530	530			
GR	2265.1	9609.5	2259.0	9670.7	2255.1	9724.3	2253.7	9768.4	2251.9	9780.3
GR	2252.8	9793.0	2253.7	9819.4	2254.7	9869.3	2254.8	9921.2	2254.9	9954.8
GR	2254.0	9976.1	2241.6	9992.8	2240.1	10000.0	2240.9	10010.8	2240.9	10033.4
GR	2240.9	10061.3	2241.0	10081.9	2241.5	10091.7	2244.4	10103.8	2254.2	10145.4
GR	2259.6	10160.4								
ET			9.1						9989.5	10025.3
X1	400	16	9989.5	10023.2	530	530	530			
GR	2273.4	9819.6	2264.8	9878.3	2261.2	9918.4	2260.8	9967.7	2258.6	9972.8
GR	2249.2	9989.5	2248.4	9998.1	2249.5	10000.0	2250.4	10019.9	2251.5	10023.2
GR	2252.9	10073.6	2256.5	10095.5	2261.2	10145.4	2263.7	10181.9	2266.8	10216.7
GR	2269.9	10235.1								
NC	.055	.055	.045							
ET			9.1						9984.4	10020.2
X1	540	12	9984.4	10020.2	740	740	740			
GR	2283.1	9919.4	2277.4	9954.6	2266.1	9978.6	2264.7	9984.4	2262.9	9993.4
GR	2260.9	9996.8	2260.3	10000.0	2261.8	10006.4	2265.8	10020.2	2270.9	10053.9
GR	2278.0	10079.6	2279.5	10095.4						
NC	.05	.05	.045							
ET			9.1						9969.5	10000.0
X1	660	10	9976.9	10000.0	630	630	630			
GR	2285.2	9878.8	2281.6	9922.1	2279.4	9949.9	2277.5	9976.9	2275.6	9980.8
GR	2275.2	9988.4	2276.6	10000.0	2280.3	10009.0	2285.8	10035.2	2294.1	10068.9
QT	2	891	891							
NC	.06	.06	.05							
ET			9.1						9995.9	10022.9
X1	740	17	9995.9	10022.9	420	420	420			
GR	2309.0	9952.9	2307.7	9964.9	2293.4	9983.9	2288.0	9995.9	2286.7	10000.0
GR	2288.8	10007.5	2290.8	10022.9	2291.0	10027.0	2293.2	10053.5	2294.3	10054.0
GR	2300.3	10078.0	2304.2	10097.2	2305.1	10117.9	2304.8	10145.7	2304.6	10171.8
GR	2304.7	10203.3	2305.2	10224.9						

NC	.055	.055	.045							
ET			9.1						9968.4	10004.5
X1	820	17	9968.4	10004.5	420	420	420			
GR	2324.9	9867.8	2315.8	9915.0	2308.5	9938.0	2302.4	9968.4	2300.7	9990.2
GR	2298.5	9999.0	2298.4	10000.0	2299.5	10004.5	2311.3	10013.4	2314.0	10017.5
GR	2314.9	10044.7	2317.6	10089.3	2318.1	10116.4	2320.0	10140.3	2322.6	10169.3
GR	2326.8	10201.9	2327.0	10221.1						
NC	.06	.06	.05							
ET			9.1						9960.5	10010.0
X1	910	16	9993.7	10010.0	475	475	475			
GR	2335.8	9788.6	2324.5	9845.7	2321.3	9869.5	2322.1	9889.9	2319.1	9910.4
GR	2313.6	9924.3	2312.1	9947.8	2312.6	9968.6	2313.1	9993.7	2311.9	10000.0
GR	2312.7	10010.0	2317.3	10021.6	2322.6	10028.3	2327.6	10051.9	2332.7	10084.0
GR	2335.0	10097.8								
NC	.055	.055	.045							
ET			9.1						9985.9	10019.4
X1	980	15	9985.9	10019.4	370	370	370			
GR	2343.5	9916.8	2336.2	9953.6	2326.1	9972.7	2325.2	9972.8	2319.4	9985.9
GR	2317.2	9994.4	2318.0	10000.0	2319.6	10019.4	2323.7	10038.1	2326.4	10038.9
GR	2329.2	10068.8	2332.0	10099.1	2335.8	10128.2	2338.3	10160.4	2339.6	10168.5
[illegible]	.055	.055	.05							
[illegible]			9.1						9990.1	10011.3
X1	1120	12	9990.1	10011.3	740	740	740			
GR	2370.6	9902.9	2349.1	9933.7	2341.8	9953.5	2339.5	9977.5	2338.1	9990.1
GR	2335.6	10000.0	2338.1	10011.3	2343.2	10022.5	2347.9	10050.2	2350.1	10090.1
GR	2352.3	10128.4	2354.8	10159.9						
NC	.055	.055	.045							
ET			9.1						9980.14	10009.0
X1	1200	16	9988.1	10011.3	420	420	420			
GR	2372.9	9914.6	2366.6	9941.1	2358.9	9959.6	2355.1	9977.2	2352.0	9988.1
GR	2349.7	9992.2	2349.3	9996.3	2349.7	10000.0	2350.1	10004.3	2354.9	10011.3
GR	2358.6	10021.2	2361.4	10047.1	2361.7	10082.0	2362.8	10110.1	2366.7	10141.0
GR	2371.8	10168.9								
QT	2	445	445							
NC	.06	.06	.055							
ET			9.1						9980.4	10008.6
X1	1310	19	9988.1	10003.5	580	580	580			
GR	2403.9	9902.9	2394.6	9935.4	2382.7	9956.4	2378.9	9970.0	2375.7	9988.1
GR	2373.7	9994.6	2373.3	9998.3	2373.3	10000.0	2374.8	10003.5	2379.3	10013.9
GR	2381.8	10016.6	2389.6	10036.1	2390.1	10059.6	2390.2	10085.3	2389.7	10114.1
GR	2391.0	10128.2	2394.0	10148.3	2396.1	10168.0	2398.2	10178.2		
ET			9.1						9991.5	10018.6
X1	1380	18	9994.3	10009.1	370	370	370			
[illegible]	2415.7	9936.2	2405.8	9967.9	2398.6	9982.0	2394.6	9994.3	2392.1	9999.5
[illegible]	2392.0	10000.0	2392.8	10009.1	2396.2	10020.9	2397.8	10033.2	2398.2	10049.1
GR	2400.3	10060.0	2401.8	10088.2	2403.0	10124.5	2404.1	10159.9	2405.1	10185.3
GR	2406.2	10213.2	2406.9	10244.9	2407.6	10260.2				

ET			9.1						9994.3	10012.0
X1	1490	19	9999.3	10005.4	580	580	580			
GR	2448.9	9948.0	2438.2	9979.1	2433.4	9983.7	2428.6	9993.3	2422.6	9999.3
GR	2422.2	10000.0	2424.4	10005.4	2430.5	10017.7	2432.3	10023.3	2433.0	10045.1
GR	2433.1	10060.2	2433.9	10077.7	2436.1	10095.0	2438.8	10112.8	2439.8	10126.6
GR	2439.4	10138.7	2442.0	10154.2	2445.9	10175.5	2451.4	10184.6		
ET			9.1						9982.0	10011.6
X1	1610	13	9981.6	10005.6	630	630	630			
GR	2483.7	9951.1	2472.7	9973.9	2467.4	9981.6	2464.2	9992.1	2464.3	9996.5
GR	2464.3	10000.0	2465.7	10005.6	2468.0	10014.4	2468.9	10022.8	2473.9	10053.6
GR	2477.2	10086.6	2482.1	10120.1	2489.4	10142.0				

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T1      FLOOD CONTROL DISTRICT OF MARICOPA CO. - LA027815.H2
T2      100-YEAR FLOOD FREQUENCY MODEL  (ENCROACHMENT CONDITIONS)
T3      WILLOW SPR. TRIB. 2      (WST2.MCE)

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

                3                                                          2206.75

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

    15                  -1
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THIS RUN EXECUTED 3/23/90 13:17:10

****
HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989

ERROR CORR - 01,02,03
MODIFICATION -
****

NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

WILLOW SPR. TRIB. 2

SUMMARY PRINTOUT

	SECNO	Q	VCH	DEPTH	ELMIN	XLCH	CWSEL	.01K	TOPWID	SSTA	STCHL	STCHR	ENDST
*	1910.000	1492.00	10.17	6.79	2199.00	.00	2205.79	160.40	56.03	9973.93	9976.60	10018.50	10029.96
	1910.000	1492.00	8.10	7.75	2199.00	.00	2206.75	222.82	41.90	9976.60	9976.60	10018.50	10018.50
	40.000	1492.00	10.34	4.21	2209.70	260.00	2213.91	158.88	47.47	9964.49	9966.50	10009.30	10011.96
	40.000	1492.00	10.44	4.20	2209.70	260.00	2213.90	149.33	42.80	9966.50	9966.50	10009.30	10009.30
*	100.000	1492.00	12.44	6.15	2214.20	320.00	2220.35	187.47	39.37	9973.43	9989.00	10007.00	10012.80
*	100.000	1492.00	13.92	6.30	2214.20	320.00	2220.50	142.07	20.00	9987.00	9989.00	10007.00	10007.00
*	200.000	1492.00	11.51	5.37	2226.30	530.00	2231.67	146.11	46.21	9971.44	9987.30	10013.50	10017.65
*	200.000	1492.00	12.30	5.63	2226.30	530.00	2231.93	120.14	26.20	9987.30	9987.30	10013.50	10013.50
*	300.000	1492.00	7.79	2.71	2240.10	530.00	2242.81	109.61	106.02	9991.16	9992.80	10091.70	10097.18
*	300.000	1492.00	7.86	2.72	2240.10	530.00	2242.82	106.87	98.90	9992.80	9992.80	10091.70	10091.70
*	400.000	1492.00	9.07	5.07	2248.40	530.00	2253.47	146.58	95.18	9981.91	9989.50	10023.20	10077.09
*	400.000	1492.00	11.26	5.18	2248.40	530.00	2253.58	111.06	35.80	9989.50	9989.50	10023.20	10025.30
*	540.000	1492.00	10.59	6.38	2260.30	740.00	2266.68	110.91	48.64	9977.37	9984.40	10020.20	10026.01
	540.000	1492.00	10.15	6.65	2260.30	740.00	2266.95	114.18	35.80	9984.40	9984.40	10020.20	10020.20
*	660.000	1492.00	10.22	5.27	2275.20	630.00	2280.47	131.69	73.37	9936.42	9976.90	10000.00	10009.79
*	660.000	1492.00	12.23	5.39	2275.20	630.00	2280.59	100.98	30.50	9969.50	9976.90	10000.00	10000.00
*	740.000	891.00	9.39	5.20	2286.70	420.00	2291.90	58.32	50.60	9987.23	9995.90	10022.90	10037.84
*	740.000	891.00	10.30	5.36	2286.70	420.00	2292.06	48.91	27.00	9995.90	9995.90	10022.90	10022.90
*	820.000	891.00	9.20	4.86	2298.40	420.00	2303.26	59.90	43.24	9964.10	9968.40	10004.50	10007.34
	820.000	891.00	8.70	5.10	2298.40	420.00	2303.50	61.61	36.10	9968.40	9968.40	10004.50	10004.50
	910.000	891.00	7.01	2.54	2311.90	475.00	2314.44	60.91	92.23	9922.17	9993.70	10010.00	10014.40
	910.000	891.00	8.59	3.16	2311.90	475.00	2315.06	54.18	49.50	9960.50	9993.70	10010.00	10010.00

	SECNO	Q	VCH	DEPTH	ELMIN	XLCH	CWSEL	.01K	TOPWID	SSTA	STCHL	STCHR	ENDST
	980.000	891.00	8.96	4.12	2317.20	370.00	2321.32	65.45	45.68	9981.56	9985.90	10019.40	10027.25
*	980.000	891.00	7.85	4.66	2317.20	370.00	2321.86	76.88	33.50	9985.90	9985.90	10019.40	10019.40
*	1120.000	891.00	9.48	4.92	2335.60	740.00	2340.52	65.28	49.79	9966.83	9990.10	10011.30	10016.62
*	1120.000	891.00	11.12	5.03	2335.60	740.00	2340.63	49.38	21.20	9990.10	9990.10	10011.30	10011.30
*	1200.000	891.00	10.35	4.97	2349.30	420.00	2354.27	64.41	30.25	9980.13	9988.10	10011.30	10010.38
*	1200.000	891.00	10.53	4.94	2349.30	420.00	2354.24	64.00	28.76	9980.24	9988.10	10011.30	10009.00
*	1310.000	445.00	8.82	3.78	2373.30	580.00	2377.08	27.42	28.47	9980.30	9988.10	10003.50	10008.77
*	1310.000	445.00	8.69	3.81	2373.30	580.00	2377.11	28.05	28.20	9980.40	9988.10	10003.50	10008.60
*	1380.000	445.00	9.00	3.54	2392.00	370.00	2395.54	25.93	27.19	9991.41	9994.30	10009.10	10018.61
*	1380.000	445.00	8.82	3.58	2392.00	370.00	2395.58	26.72	27.10	9991.50	9994.30	10009.10	10018.60
*	1490.000	445.00	11.31	5.50	2422.20	580.00	2427.70	27.38	17.84	9994.20	9999.30	10005.40	10012.05
*	1490.000	445.00	11.15	5.54	2422.20	580.00	2427.74	27.94	17.70	9994.30	9999.30	10005.40	10012.00
*	1610.000	445.00	8.12	3.10	2464.20	630.00	2467.30	24.75	29.79	9981.93	9981.60	10005.60	10011.72
*	1610.000	445.00	8.10	3.10	2464.20	630.00	2467.30	24.90	29.60	9982.00	9981.60	10005.60	10011.60

_LOW SPR. TRIB. 2

SUMMARY PRINTOUT

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	STENCL	STCHL	STCHR	STENCR	10*KS	EG	DIFEG
*	1910.000	1492.00	2205.79	.00	.00	.00	9976.60	10018.50	.00	86.52	2207.37	.00
	1910.000	1492.00	2206.75	.96	.00	9976.60	9976.60	10018.50	10018.50	44.84	2207.77	.40
*	40.000	1492.00	2213.91	.00	8.12	.00	9966.50	10009.30	.00	88.18	2215.56	.00
*	40.000	1492.00	2213.90	-.01	7.15	9966.50	9966.50	10009.30	10009.30	99.82	2215.60	.03
*	100.000	1492.00	2220.35	.00	6.44	.00	9989.00	10007.00	.00	63.34	2222.43	.00
*	100.000	1492.00	2220.50	.15	6.60	9987.00	9989.00	10007.00	10007.00	110.29	2223.44	1.01
*	200.000	1492.00	2231.67	.00	11.32	.00	9987.30	10013.50	.00	104.28	2233.53	.00
*	200.000	1492.00	2231.93	.26	11.43	9987.30	9987.30	10013.50	10013.50	154.24	2234.28	.74
*	300.000	1492.00	2242.81	.00	11.14	.00	9992.80	10091.70	.00	185.28	2243.75	.00
*	300.000	1492.00	2242.82	.00	10.89	9992.80	9992.80	10091.70	10091.70	194.90	2243.78	.03
*	400.000	1492.00	2253.47	.00	10.66	.00	9989.50	10023.20	.00	103.60	2254.53	.00
*	400.000	1492.00	2253.58	.11	10.76	9989.50	9989.50	10023.20	10025.30	180.47	2255.53	1.00
	540.000	1492.00	2266.68	.00	13.21	.00	9984.40	10020.20	.00	180.97	2268.38	.00
	540.000	1492.00	2266.95	.27	13.37	9984.40	9984.40	10020.20	10020.20	170.75	2268.55	.16
*	660.000	1492.00	2280.47	.00	13.79	.00	9976.90	10000.00	.00	128.35	2281.76	.00
*	660.000	1492.00	2280.59	.13	13.65	9969.50	9976.90	10000.00	10000.00	218.31	2282.76	1.00
*	740.000	891.00	2291.90	.00	11.43	.00	9995.90	10022.90	.00	233.42	2293.14	.00
*	740.000	891.00	2292.06	.16	11.47	9995.90	9995.90	10022.90	10022.90	331.92	2293.71	.57
*	820.000	891.00	2303.26	.00	11.36	.00	9968.40	10004.50	.00	221.29	2304.55	.00
	820.000	891.00	2303.50	.24	11.44	9968.40	9968.40	10004.50	10004.50	209.14	2304.68	.13
	910.000	891.00	2314.44	.00	11.18	.00	9993.70	10010.00	.00	213.97	2314.96	.00
	910.000	891.00	2315.06	.62	11.56	9960.50	9993.70	10010.00	10010.00	270.45	2315.96	1.00
	980.000	891.00	2321.32	.00	6.88	.00	9985.90	10019.40	.00	185.34	2322.52	.00
*	980.000	891.00	2321.86	.54	6.80	9985.90	9985.90	10019.40	10019.40	134.33	2322.82	.29
*	1120.000	891.00	2340.52	.00	19.20	.00	9990.10	10011.30	.00	186.30	2341.74	.00
*	1120.000	891.00	2340.63	.11	18.77	9990.10	9990.10	10011.30	10011.30	325.54	2342.55	.81
*	1200.000	891.00	2354.27	.00	13.74	.00	9988.10	10011.30	.00	191.37	2355.87	.00
*	1200.000	891.00	2354.24	-.03	13.61	9980.14	9988.10	10011.30	10009.00	193.80	2355.90	.03
*	1310.000	445.00	2377.08	.00	22.81	.00	9988.10	10003.50	.00	263.34	2378.20	.00
	1310.000	445.00	2377.11	.03	22.88	9980.40	9988.10	10003.50	10008.60	251.60	2378.19	-.00
*	1380.000	445.00	2395.54	.00	18.46	.00	9994.30	10009.10	.00	294.48	2396.66	.00
*	1380.000	445.00	2395.58	.04	18.47	9991.50	9994.30	10009.10	10018.60	277.39	2396.66	-.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	STENCL	STCHL	STCHR	STENCR	10*KS	EG	DIFEG
*	1490.000	445.00	2427.70	.00	32.16	.00	9999.30	10005.40	.00	264.08	2429.23	.00
*	1490.000	445.00	2427.74	.04	32.16	9994.30	9999.30	10005.40	10012.00	253.58	2429.23	-.00
*	1610.000	445.00	2467.30	.00	39.60	.00	9981.60	10005.60	.00	323.16	2468.29	.00
*	1610.000	445.00	2467.30	.01	39.57	9982.00	9981.60	10005.60	10011.60	319.29	2468.29	.00

SUMMARY OF ERRORS AND SPECIAL NOTES

```
CAUTION SECNO=   1910.000  PROFILE=  1  CRITICAL DEPTH ASSUMED

CAUTION SECNO=     40.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     40.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     40.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     40.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     40.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     40.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=    100.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    100.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    100.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    100.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    100.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    100.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=    200.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    200.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    200.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    200.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    200.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    200.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=    300.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    300.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    300.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    300.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    400.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    400.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    400.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    400.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    540.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    540.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    660.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    660.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    660.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    660.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    740.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    740.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    740.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    740.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    740.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    820.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    820.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY

WARNING SECNO=    980.000  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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CAUTION SECNO=   1120.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1120.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   1120.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1120.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=   1200.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1200.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   1200.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1200.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=   1310.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1310.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   1310.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   1310.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1310.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   1310.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=   1380.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1380.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   1380.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1380.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=   1490.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1490.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   1490.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1490.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=   1610.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1610.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   1610.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1610.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
```

FLOODWAY DATA, WILLOW SPR. TRIB. 2
PROFILE NO. 2

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WATER SURFACE ELEVATION WITHOUT FLOODWAY	DIFFERENCE
1910.000	42.	184.	8.1	2206.8	2205.8	1.0
40.000	43.	143.	10.4	2213.9	2213.9	.0
100.000	20.	114.	13.1	2220.5	2220.3	.2
200.000	26.	121.	12.3	2231.9	2231.7	.2
300.000	99.	190.	7.9	2242.8	2242.8	.0
400.000	36.	135.	11.0	2253.6	2253.5	.1
540.000	36.	147.	10.2	2266.9	2266.7	.2
660.000	30.	131.	11.4	2280.6	2280.5	.1
740.000	27.	86.	10.3	2292.1	2291.9	.2
820.000	36.	102.	8.7	2303.5	2303.3	.2
910.000	49.	120.	7.4	2315.1	2314.4	.7
980.000	33.	113.	7.9	2321.9	2321.3	.6
1120.000	21.	80.	11.1	2340.6	2340.5	.1
1200.000	29.	90.	9.9	2354.2	2354.3	-.1
1310.000	28.	58.	7.7	2377.1	2377.1	.0
0.000	27.	57.	7.8	2395.6	2395.5	.1
490.000	18.	52.	8.5	2427.7	2427.7	.0
1610.000	30.	58.	7.7	2467.3	2467.3	.0

```
*******************************************************
*  WATER SURFACE PROFILES                             *
*  VERSION OF SEPTEMBER 1988                          *
*  ERROR: 01,02,03                                    *
*  UPDATED:  SEPTEMBER 1989                           *
*  RUN DATE     2/26/90    TIME    16:28:30           *
*******************************************************
```

```
****************************************
*  U.S. ARMY CORPS OF ENGINEERS
*  THE HYDROLOGIC ENGINEERING CENTER
*  609 SECOND STREET, SUITE D
*  DAVIS, CALIFORNIA 95616-4687
*           (916) 756-1104
****************************************
```

WST2A.OUT

100 YR CWSEL 2-27-90 DES

```
X     X  XXXXXXX   XXXXX              XXXXX
X     X  X       X     X            X     X
X     X  X       X                        X
XXXXXXX  XXXX     X         XXXXX    XXXXX
X     X  X       X                  X
X     X  X       X     X            X
X     X  XXXXXXX   XXXXX             XXXXXXX
```

END OF BANNER

THIS RUN EXECUTED 2/26/90 16:28:30

```
**************************************************
  HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989


  ERROR CORR -  01,02,03
  MODIFICATION -
**************************************************



T1      FLOOD CONTROL DISTRICT OF MARICOPA CO. - LA027815.H2
T2      10-YEAR FLOOD FREQUENCY MODEL
T3      WILLOW SPRINGS, TRIB. 2A  (WST2A.DAT)


J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

              2                         .015                                2278.02

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

    1                  -1


J3  VARIABLE CODES FOR SUMMARY PRINTOUT

    38       1       43       8       55       26       56       13       14       15
     4       5       51
   150


QT       4      345      514      601      752

NC     .05      .05     .045

        ******REVISED STREAMFLOW DATA FROM CVCRK43R.OUT******
         COMMON SECTION IS SEC. 660 OF WST2
         SEC. 000 = 670 OF WST2
         QT VALUES FROM SUBWTRSHD 'F2A'
X1     660       10     9976.9   10000.0
GR   2285.2    9878.8   2281.6    9922.1   2279.4    9949.9   2277.5    9976.9   2275.6    9980.8
GR   2275.2    9988.4   2276.6   10000.0   2280.3   10009.0   2285.8   10035.2   2294.1   10068.9


X1     100       14     9952.9    9990.6     580       580       580
GR   2314.8    9852.5   2304.8    9905.1   2297.3    9944.4   2296.1    9952.9   2295.0    9964.5
     2293.4    9974.2   2294.3    9975.7   2295.2    9990.6   2297.7   10000.0   2301.2   10026.9
     2304.0   10059.3   2306.3   10082.9   2308.5   10123.2   2311.5   10159.1
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```
X1      220        14      9991.4   10014.3       630       630       630
GR   2330.7    9843.2      2325.8    9894.2    2319.0    9929.9    2314.0    9965.5    2313.1    9969.9
GR   2311.4    9991.4      2309.1    9998.6    2309.1   10000.0    2310.0   10010.0    2312.1   10014.3
GR   2316.8   10051.7      2322.6   10104.2    2326.3   10150.6    2326.3   10174.8

X1      290        16      9978.4   10008.0       370       370       370
GR   2340.5    9901.6      2333.9    9930.4    2328.7    9942.0    2325.0    9965.9    2322.2    9978.4
GR   2320.3    9988.2      2321.3    9999.5    2321.0   10000.0    2321.3   10008.0    2324.3   10015.0
GR   2328.9   10041.4      2331.7   10070.0    2332.1   10081.3    2334.1   10107.5    2337.1   10127.4
GR   2340.0   10137.2

NC      .05        .05        .04

X1      400        18      9986.4   10016.4       580       580       580
GR   2356.5    9823.3      2355.2    9877.1    2350.7    9916.1    2349.6    9950.7    2349.4    9970.6
GR   2347.9    9980.0      2341.8    9986.4    2338.1    9995.0    2337.6    9999.7    2337.2   10000.0
GR   2339.7   10013.2      2341.2   10016.4    2345.7   10048.7    2349.6   10080.5    2351.1   10115.2
GR   2352.5   10138.8      2355.8   10162.8    2360.6   10175.9

QT        4       231        344       402       503

     QT VALUES ARE 67% OF SUBWTRSHD 'F2A'
X1      520        20      9989.3   10016.4       630       630       630
GR   2383.0    9867.7      2379.7    9913.1    2378.1    9925.8    2378.0    9938.7    2375.8    9962.0
GR   2373.0    9973.8      2367.6    9989.3    2366.2    9995.5    2365.6   10000.0    2367.9   10011.0
GR   2369.5   10016.4      2369.2   10032.3    2368.0   10042.8    2368.0   10051.2    2370.0   10064.1
GR   2372.1   10092.4      2375.0   10121.9    2379.6   10158.0    2382.1   10188.2    2384.2   10200.3

X1      620        16      9989.9   10018.0       530       530       530
GR   2403.5    9921.4      2397.8    9956.1    2389.7    9979.0    2388.7    9979.1    2385.4    9989.9
GR   2382.4    9997.1      2381.7   10000.0    2382.6   10007.3    2386.2   10018.0    2392.7   10030.4
GR   2393.2   10031.8      2396.8   10052.2    2400.2   10074.6    2404.9   10100.7    2407.8   10125.9
GR   2408.5   10132.7

NC     .055       .055       .045

X1      720        13      9988.0   10006.6       530       530       530
GR   2419.2    9948.1      2412.7    9970.3    2407.0    9985.7    2403.4    9988.0    2398.3    9994.7
GR   2398.7    9997.1      2398.3   10000.0    2399.8   10006.6    2402.7   10015.8    2406.3   10024.7
GR   2412.7   10049.5      2419.3   10068.0    2420.5   10080.8

NC     .055       .055        .05
```

	810	13	9990.7	10003.2	480	480	480			
GR	2436.5	9961.9	2423.5	9982.8	2418.9	9990.7	2415.8	9994.4	2415.5	9998.4
GR	2416.3	10000.0	2417.3	10003.2	2421.3	10008.9	2424.6	10017.5	2428.2	10031.4
GR	2432.1	10052.2	2436.2	10075.8	2438.3	10084.5				
X1	900	17	9991.5	10014.9	480	480	480			
GR	2463.7	9914.1	2455.3	9951.2	2446.1	9979.2	2444.1	9983.4	2442.7	9991.5
GR	2439.6	9998.9	2439.6	10000.0	2441.2	10006.0	2442.8	10014.9	2443.6	10036.3
GR	2443.7	10049.0	2445.5	10065.3	2448.0	10087.1	2452.4	10115.6	2458.4	10139.8
GR	2462.8	10169.8	2464.4	10180.2						
X1	1000	17	9984.7	10009.9	530	530	530			
GR	2480.4	9923.4	2468.2	9955.4	2464.6	9968.4	2461.2	9984.7	2459.9	9993.2
GR	2459.2	9997.4	2459.1	10000.0	2459.8	10003.7	2461.5	10009.9	2463.0	10030.7
GR	2463.4	10031.4	2465.4	10053.7	2468.4	10079.5	2473.4	10106.6	2476.3	10125.6
GR	2479.6	10148.6	2481.0	10157.6						

```
 :NO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q       QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*PROF 1

*SECNO 660.000
        ******REVISED STREAMFLOW DATA FROM CVCRK43R.OUT******
         COMMON SECTION IS SEC. 660 OF WST2
         SEC. 000 = 670 OF WST2
         QT VALUES FROM SUBWTRSHD 'F2A'
  660.000     2.82  2278.02      .00  2278.02  2278.70      .68      .00      .00  2277.50
     345.       3.     335.       7.       2.     50.       2.       0.       0.   2276.60
      .00     1.48     6.68     2.75     .050     .045     .050     .000  2275.20  9969.51
  .014957       0.       0.       0.        0        0        0      .00    33.94 10003.45


*SECNO 100.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  100.000     2.76  2296.16  2296.16      .00  2296.85      .69    11.61      .00  2296.10
     345.       0.     340.       5.       0.     51.       2.       1.       1.   2295.20
      .02      .05     6.70     3.00     .050     .045     .050     .000  2293.40  9952.45
     8150     580.     580.     580.       12        5        0      .00    41.78  9994.23


*SECNO 220.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  220.000     2.88  2311.98  2311.98      .00  2312.87      .89    15.77      .00  2311.40
     345.       4.     341.       0.       2.     45.       0.       1.       1.   2312.10
      .05     1.95     7.60      .00     .050     .045     .000     .000  2309.10  9984.04
  .022406     630.     630.     630.        5        8        0      .00    30.01 10014.06


*SECNO 290.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  290.000     2.35  2322.65  2322.65      .00  2323.42      .77     8.76      .00  2322.20
     345.       1.     337.       7.       0.     47.       2.       2.       1.   2321.30
      .06     1.72     7.10     3.42     .050     .045     .050     .000  2320.30  9976.38
  .025044     370.     370.     370.        2       15        0      .00    34.77 10011.15


*SECNO 400.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q      QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 400.000     3.19  2340.39  2340.39      .00  2341.30      .91    13.09      .00  2341.80
    345.       0.     345.       0.       0.      45.       0.       2.       2.   2341.20
     .08      .00     7.65      .00     .000     .040     .000     .000  2337.20  9989.67
 .020451     580.     580.     580.       11       11        0      .00    25.00 10014.68


*SECNO 520.000

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
         QT VALUES ARE 67% OF SUBWTRSHD 'F2A'
 520.000     2.63  2368.23  2368.23      .00  2368.86      .63    12.04      .00  2367.60
    231.       1.     227.       3.       1.      35.       2.       3.       2.   2369.50
     .11     1.74     6.44     1.38     .050     .040     .050     .000  2365.60  9987.49
 .017348     630.     630.     630.       20       15        0      .00    36.52 10052.69


*SECNO 620.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 620.000     2.67  2384.37  2384.37      .00  2385.17      .80    10.13      .00  2385.40
    231.       0.     231.       0.       0.      32.       0.       4.       2.   2386.20
     .13      .00     7.18      .00     .000     .040     .000     .000  2381.70  9992.38
 .021157     530.     530.     530.        9        5        0      .00    20.17 10012.55


*SECNO 720.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 720.000     2.62  2400.92  2400.92      .00  2401.80      .88    12.00      .00  2403.40
    231.       0.     226.       5.       0.      30.       2.       4.       3.   2399.80
     .15      .00     7.62     2.76     .000     .045     .055     .000  2398.30  9991.26
 .024281     530.     530.     530.        9        8        0      .00    18.88 10010.14


*SECNO 810.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 810.000     3.16  2418.66  2418.66      .00  2419.72     1.05    13.09      .00  2418.90
    231.       0.     227.       4.       0.      27.       1.       4.       3.   2417.30
     .17      .00     8.30     3.21     .000     .050     .055     .000  2415.50  9990.98
 .030828     480.     480.     480.        9       11        0      .00    14.16 10005.14
```

:NO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
W	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 900.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

900.000	3.01	2442.61	2442.61	.00	2443.37	.76	15.66	.00	2442.70
231.	0.	231.	0.	0.	33.	0.	5.	3.	2442.80
.19	.00	7.01	.00	.000	.050	.000	.000	2439.60	9991.71
.034607	480.	480.	480.	9	11	0	.00	22.14	10013.85

*SECNO 1000.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1000.000	2.36	2461.46	2461.46	.00	2462.17	.70	18.33	.00	2461.20
231.	0.	231.	0.	0.	34.	0.	5.	3.	2461.50
.21	1.28	6.73	.00	.055	.050	.000	.000	2459.10	9983.44
.034569	530.	530.	530.	4	15	0	.00	26.32	10009.76

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      FLOOD CONTROL DISTRICT OF MARICOPA CO. - LA027815.H2
T2    50-YEAR FLOOD FREQUENCY MODEL
T3    WILLOW SPRINGS, TRIB. 2A   (WST2A.DAT)

J1  ICHECK   INQ     NINV    IDIR    STRT    METRIC  HVINS   Q       WSEL    FQ

             3                   .015                            2278.54

J2  NPROF    IPLOT   PRFVS   XSECV   XSECH   FN      ALLDC   IBW     CHNIM   ITRACE

    2                -1
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 CNO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q       QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*PROF 2

*SECNO 660.000
        ******REVISED STREAMFLOW DATA FROM CVCRK43R.OUT******
         COMMON SECTION IS SEC. 660 OF WST2
         SEC. 000 = 670 OF WST2
         QT VALUES FROM SUBWTRSHD 'F2A'
  660.000     3.34  2278.54  2278.42  2278.54  2279.41     .87     .00     .00  2277.50
     514.      18.     480.      16.       8.      62.      5.      0.      0.   2276.60
      .00     2.35     7.72     3.39     .050     .045    .050    .000  2275.20  9962.12
  .015015       0.       0.       0.        0        7       0     .00   42.60 10004.72


*SECNO 100.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  100.000     3.20  2296.60  2296.60     .00  2297.44     .84   10.86     .00  2296.10
     514.       2.     499.      13.       1.      67.      4.      1.      1.   2295.20
      .02     1.81     7.45     3.54     .050     .045    .050    .000  2293.40  9949.38
     4014     580.     580.     580.       13       11       0     .00   46.47  9995.85


*SECNO 220.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  220.000     3.53  2312.63  2312.63     .00  2313.60     .97   12.89     .00  2311.40
     514.      28.     485.       2.      10.      60.      1.      2.      1.   2312.10
      .04     2.86     8.11     1.63     .050     .045    .050    .000  2309.10  9975.79
  .017653     630.     630.     630.        4        8       0     .00   42.75 10018.55


*SECNO 290.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  290.000     2.84  2323.14  2323.14     .00  2324.09     .95    7.28     .00  2322.20
     514.       5.     493.      16.       2.      62.      4.      3.      2.   2321.30
      .06     2.63     7.97     3.95     .050     .045    .050    .000  2320.30  9974.20
  .022092     370.     370.     370.       11       15       0     .00   38.09 10012.29


*SECNO 400.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
  Q       QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 400.000     3.79  2340.99  2340.99      .00  2342.10     1.11    11.98      .00  2341.80
    514.       0.     514.       0.       0.      61.       0.       3.       2.   2341.20
     .08      .00     8.46      .00     .000     .040     .000     .000  2337.20  9988.29
 .019360     580.     580.     580.       13       11        0      .00    27.65 10015.94


*SECNO 520.000

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
         QT VALUES ARE 67% OF SUBWTRSHD 'F2A'
 520.000     3.08  2368.68  2368.68      .00  2369.38      .69    11.07      .00  2367.60
    344.       4.     317.      23.       2.      46.       9.       4.       3.   2369.50
     .10     2.35     6.91     2.45     .050     .040     .050     .000  2365.60  9986.19
 .015322     630.     630.     630.       20       15        0      .00    46.25 10055.61


*SECNO 620.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 620.000     3.19  2384.89  2384.89      .00  2385.86      .97     9.32      .00  2385.40
    344.       0.     344.       0.       0.      44.       0.       5.       3.   2386.20
     .12      .00     7.89      .00     .000     .040     .000     .000  2381.70  9991.11
 .020400     530.     530.     530.       12        8        0      .00    23.01 10014.12


*SECNO 720.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 720.000     3.20  2401.50  2401.50      .00  2402.57     1.06    11.33      .00  2403.40
    344.       0.     328.      16.       0.      39.       5.       5.       3.   2399.80
     .14      .00     8.44     3.52     .000     .045     .055     .000  2398.30  9990.49
 .022430     530.     530.     530.        9        5        0      .00    21.51 10012.00


*SECNO 810.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 810.000     3.83  2419.33  2419.33      .00  2420.64     1.31    12.02      .00  2418.90
    344.       0.     332.      12.       0.      36.       3.       6.       3.   2417.30
     .15     1.48     9.31     4.01     .055     .050     .055     .000  2415.50  9989.96
 .028153     480.     480.     480.       11       11        0      .00    16.14 10006.10
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 900.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  900.000     3.58  2443.18  2443.18      .00  2444.01      .84    13.06      .00  2442.70
     344.       1.     340.       3.       1.      46.       2.       6.       4.   2442.80
      .17     1.67     7.38     1.44     .055     .050     .055     .000  2439.60  9988.73
  .026315     480.     480.     480.       11       12        0      .00    36.31 10025.04


*SECNO 1000.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1000.000     2.84  2461.94  2461.94      .00  2462.76      .82    14.25      .00  2461.20
     344.       3.     339.       2.       1.      46.       1.       7.       4.   2461.50
      .19     2.28     7.31     1.63     .055     .050     .055     .000  2459.10  9981.15
  .027491     530.     530.     530.       20       15        0      .00    34.87 10016.02
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     FLOOD CONTROL DISTRICT OF MARICOPA CO. - LA027815.H2
T2   100-YEAR FLOOD FREQUENCY MODEL
T3   WILLOW SPRINGS, TRIB. 2A   (WST2A.DAT)

J1  ICHECK   INQ     NINV    IDIR    STRT    METRIC  HVINS   Q       WSEL    FQ

             4                    .015                            2278.77

J2  NPROF    IPLOT   PRFVS   XSECV   XSECH   FN      ALLDC   IBW     CHNIM   ITRACE

    3                -1
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CNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*PROF 3

*SECNO 660.000

******REVISED STREAMFLOW DATA FROM CVCRK43R.OUT******

COMMON SECTION IS SEC. 660 OF WST2

SEC. 000 = 670 OF WST2

QT VALUES FROM SUBWTRSHD 'F2A'

660.000	3.57	2278.77	2278.69	2278.77	2279.72	.95	.00	.00	2277.50
601.	31.	549.	21.	11.	68.	6.	0.	0.	2276.60
.00	2.68	8.13	3.64	.050	.045	.050	.000	2275.20	9958.85
.014946	0.	0.	0.	0	7	0	.00	46.43	10005.28

*SECNO 100.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

100.000	3.40	2296.80	2296.80	.00	2297.71	.91	10.57	.00	2296.10
601.	4.	579.	18.	2.	75.	5.	1.	1.	2295.20
.02	2.20	7.77	3.77	.050	.045	.050	.000	2293.40	9947.98
2709	580.	580.	580.	14	11	0	.00	48.62	9996.60

*SECNO 220.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

220.000	3.79	2312.89	2312.89	.00	2313.91	1.02	12.23	.00	2311.40
601.	44.	552.	5.	14.	66.	2.	2.	1.	2312.10
.04	3.16	8.41	2.06	.050	.045	.050	.000	2309.10	9972.58
.016789	630.	630.	630.	4	8	0	.00	47.99	10020.57

*SECNO 290.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

290.000	3.07	2323.37	2323.37	.00	2324.40	1.04	6.93	.00	2322.20
601.	9.	571.	21.	3.	69.	5.	3.	2.	2321.30
.06	2.96	8.33	4.17	.050	.045	.050	.000	2320.30	9973.19
.021055	370.	370.	370.	12	15	0	.00	39.63	10012.82

*SECNO 400.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

:NO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
400.000	4.05	2341.25	2341.25	.00	2342.46	1.21	11.58	.00	2341.80
601.	0.	601.	0.	0.	68.	0.	4.	2.	2341.20
.07	.00	8.81	.04	.000	.040	.050	.000	2337.20	9987.68
.018962	580.	580.	580.	13	11	0	.00	29.08	10016.76

*SECNO 520.000

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
QT VALUES ARE 67% OF SUBWTRSHD 'F2A'

520.000	3.29	2368.89	2368.89	.00	2369.59	.70	10.66	.00	2367.60
402.	6.	359.	37.	2.	51.	13.	5.	3.	2369.50
.10	2.56	7.06	2.75	.050	.040	.050	.000	2365.60	9985.61
.4434	630.	630.	630.	20	16	0	.00	50.59	10056.92

*SECNO 620.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

620.000	3.43	2385.13	2385.13	.00	2386.17	1.03	8.94	.00	2385.40
402.	0.	402.	0.	0.	49.	0.	6.	3.	2386.20
.12	.00	8.16	.00	.000	.040	.000	.000	2381.70	9990.54
.019971	530.	530.	530.	20	8	0	.00	24.29	10014.83

*SECNO 720.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

720.000	3.47	2401.77	2401.77	.00	2402.91	1.14	11.02	.00	2403.40
402.	0.	378.	24.	0.	43.	6.	6.	3.	2399.80
.14	.00	8.76	3.82	.000	.045	.055	.000	2398.30	9990.14
.021672	530.	530.	530.	10	5	0	.00	22.71	10012.85

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   CNO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q       QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
   SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*SECNO 810.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  810.000     4.15  2419.65  2419.65      .00  2421.06     1.41    11.49      .00  2418.90
     402.       1.     384.      17.       0.      40.       4.       7.       4.   2417.30
      .15     2.07     9.70     4.29     .055     .050     .055     .000  2415.50  9989.42
  .026594     480.     480.     480.       11       11        0      .00    17.13 10006.54


*SECNO 900.000

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  900.000     3.81  2443.42  2443.42      .00  2444.27      .86    12.03      .00  2442.70
     402.       3.     389.      10.       1.      52.       5.       7.       4.   2442.80
      .17     2.07     7.54     1.89     .055     .050     .055     .000  2439.60  9987.36
  .023652     480.     480.     480.       12        8        0      .00    43.99 10031.35


*SECNO 1000.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1000.000     3.06  2462.16  2462.16      .00  2463.02      .85    12.88      .00  2461.20
     402.       6.     390.       6.       2.      52.       3.       8.       5.   2461.50
      .19     2.58     7.51     2.04     .055     .050     .055     .000  2459.10  9980.09
  .024966     530.     530.     530.        9       15        0      .00    38.99 10019.08
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T1      FLOOD CONTROL DISTRICT OF MARICOPA CO. - LA027815.H2
T2      500-YEAR FLOOD FREQUENCY MODEL
T3      WILLOW SPRINGS, TRIB. 2A   (WST2A.DAT)

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

              5                         .015                                2279.11

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

    15                 -1
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 :NO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q       QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*PROF 4

*SECNO 660.000
        ******REVISED STREAMFLOW DATA FROM CVCRK43R.OUT******
         COMMON SECTION IS SEC. 660 OF WST2
         SEC. 000 = 670 OF WST2
         QT VALUES FROM SUBWTRSHD 'F2A'
  660.000     3.91  2279.11  2279.06  2279.11  2280.19     1.08      .00      .00  2277.50
     752.      58.     663.      31.      18.      75.       8.       0.       0.   2276.60
      .00     3.15     8.79     4.03     .050     .045     .050     .000  2275.20  9954.02
  .015084       0.       0.       0.        0        4        0      .00    52.09 10006.11


*SECNO 100.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  100.000     3.73  2297.13  2297.13      .00  2298.13     1.00    10.11      .00  2296.10
     752.      10.     713.      28.       4.      87.       7.       1.       1.   2295.20
      .02     2.71     8.18     4.05     .050     .045     .050     .000  2293.40  9945.59
    0373      580.     580.     580.       15        8        0      .00    52.28  9997.87


*SECNO 220.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  220.000     4.23  2313.33  2313.33      .00  2314.34     1.01    10.68      .00  2311.40
     752.      87.     649.      16.      23.      76.       6.       3.       1.   2312.10
      .04     3.73     8.56     2.57     .050     .045     .050     .000  2309.10  9968.75
  .014329      630.     630.     630.       12        8        0      .00    55.37 10024.12


*SECNO 290.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  290.000     3.43  2323.73  2323.73      .00  2324.89     1.16     6.18      .00  2322.20
     752.      18.     703.      31.       5.      79.       7.       4.       2.   2321.30
      .05     3.43     8.88     4.49     .050     .045     .050     .000  2320.30  9971.59
  .019725      370.     370.     370.       15       15        0      .00    42.07 10013.66


*SECNO 400.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
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   CNO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q       QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 400.000     4.49  2341.69  2341.69      .00  2343.02     1.33    10.78      .00  2341.80
    752.       0.     751.       1.       0.      81.       1.       5.       2.   2341.20
     .07      .00     9.27     1.52     .000     .040     .050     .000  2337.20  9986.66
 .017529     580.     580.     580.       15       11        0      .00    33.23 10019.89


*SECNO 520.000

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
         QT VALUES ARE 67% OF SUBWTRSHD 'F2A'
 520.000     3.56  2369.16  2369.16      .00  2369.91      .76    10.12      .00  2367.60
    503.      10.     430.      63.       3.      58.      20.       6.       3.   2369.50
     .10     2.89     7.44     3.16     .050     .040     .050     .000  2365.60  9984.83
   .4201     630.     630.     630.       20       15        0      .00    56.42 10058.67


*SECNO 620.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 620.000     3.80  2385.50  2385.50      .00  2386.65     1.15     8.73      .00  2385.40
    503.       0.     503.       0.       0.      58.       0.       7.       4.   2386.20
     .11      .04     8.60      .00     .050     .040     .000     .000  2381.70  9989.57
 .019349     530.     530.     530.       20        8        0      .00    26.35 10015.92


*SECNO 720.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 720.000     3.89  2402.19  2402.19      .00  2403.44     1.24    10.61      .00  2403.40
    503.       0.     464.      39.       0.      50.       9.       8.       4.   2399.80
     .13      .00     9.24     4.25     .000     .045     .055     .000  2398.30  9989.58
 .020710     530.     530.     530.       11        5        0      .00    24.61 10014.19
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 :NO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q       QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
 SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*SECNO 810.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  810.000     4.65  2420.15  2420.15      .00  2421.71     1.56    10.80      .00  2418.90
     503.       4.     472.      27.       1.      46.       6.       8.       4.   2417.30
      .14     2.81    10.28     4.69     .055     .050     .055     .000  2415.50  9988.55
  .024518     480.     480.     480.       13       11        0      .00    18.72 10007.26


*SECNO 900.000

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  900.000     4.26  2443.86  2443.86      .00  2444.61      .75     9.82      .00  2442.70
     503.       9.     452.      41.       4.      62.      17.       9.       5.   2442.80
      .16     2.45     7.29     2.45     .055     .050     .055     .000  2439.60  9984.80
  .017331     480.     480.     480.       13       11        0      .00    65.64 10050.43


*SECNO 1000.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1000.000     3.41  2462.51  2462.51      .00  2463.40      .90    10.29      .00  2461.20
     503.      12.     473.      18.       4.      61.       7.      10.       5.   2461.50
      .18     2.97     7.80     2.53     .055     .050     .055     .000  2459.10  9978.43
  .021900     530.     530.     530.       11       16        0      .00    45.44 10023.87
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THIS RUN EXECUTED 2/26/90 16:28:58

****
HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989

ERROR CORR - 01,02,03
MODIFICATION -
****

NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

WILLOW SPRINGS, TRIB. 2A

SUMMARY PRINTOUT

	SECNO	CWSEL	Q	DEPTH	VLOB	VCH	VROB	QLOB	QCH	QROB	TOPWID	10*KS	DIFWSX
	660.000	2278.02	345.00	2.82	1.48	6.68	2.75	2.84	335.43	6.73	33.94	149.57	.00
	660.000	2278.54	514.00	3.34	2.35	7.72	3.39	18.07	480.42	15.50	42.60	150.15	.00
	660.000	2278.77	601.00	3.57	2.68	8.13	3.64	30.71	549.43	20.86	46.43	149.46	.00
	660.000	2279.11	752.00	3.91	3.15	8.79	4.03	58.09	663.02	30.89	52.09	150.84	.00
*	100.000	2296.16	345.00	2.76	.05	6.70	3.00	.00	339.76	5.24	41.78	281.50	18.14
*	100.000	2296.60	514.00	3.20	1.81	7.45	3.54	1.58	499.41	13.00	46.47	240.14	18.06
*	100.000	2296.80	601.00	3.40	2.20	7.77	3.77	3.76	579.22	18.01	48.62	227.09	18.03
*	100.000	2297.13	752.00	3.73	2.71	8.18	4.05	10.23	713.32	28.45	52.28	203.73	18.02
*	220.000	2311.98	345.00	2.88	1.95	7.60	.00	4.17	340.83	.00	30.01	224.06	15.82
*	220.000	2312.63	514.00	3.53	2.86	8.11	1.63	27.50	484.65	1.85	42.75	176.53	16.04
*	220.000	2312.89	601.00	3.79	3.16	8.41	2.06	44.18	551.74	5.08	47.99	167.89	16.09
*	220.000	2313.33	752.00	4.23	3.73	8.56	2.57	87.49	648.96	15.55	55.37	143.29	16.20
*	290.000	2322.65	345.00	2.35	1.72	7.10	3.42	.78	336.92	7.30	34.77	250.44	10.67
*	290.000	2323.14	514.00	2.84	2.63	7.97	3.95	5.19	493.20	15.61	38.09	220.92	10.51
*	290.000	2323.37	601.00	3.07	2.96	8.33	4.17	8.99	571.26	20.75	39.63	210.55	10.48
*	290.000	2323.73	752.00	3.43	3.43	8.88	4.49	17.83	703.35	30.82	42.07	197.25	10.39
*	400.000	2340.39	345.00	3.19	.00	7.65	.00	.00	345.00	.00	25.00	204.51	17.74
*	400.000	2340.99	514.00	3.79	.00	8.46	.00	.00	514.00	.00	27.65	193.60	17.85
*	400.000	2341.25	601.00	4.05	.00	8.81	.04	.00	601.00	.00	29.08	189.62	17.88
*	400.000	2341.69	752.00	4.49	.00	9.27	1.52	.00	750.70	1.30	33.23	175.29	17.96
*	520.000	2368.23	231.00	2.63	1.74	6.44	1.38	.99	226.79	3.21	36.52	173.48	27.84
*	520.000	2368.68	344.00	3.08	2.35	6.91	2.45	3.97	317.29	22.74	46.25	153.22	27.70
*	520.000	2368.89	402.00	3.29	2.56	7.06	2.75	6.08	359.08	36.84	50.59	144.34	27.64
*	520.000	2369.16	503.00	3.56	2.89	7.44	3.16	10.06	430.00	62.94	56.42	142.01	27.47
*	620.000	2384.37	231.00	2.67	.00	7.18	.00	.00	231.00	.00	20.17	211.57	16.14
*	620.000	2384.89	344.00	3.19	.00	7.89	.00	.00	344.00	.00	23.01	204.00	16.21
*	620.000	2385.13	402.00	3.43	.00	8.16	.00	.00	402.00	.00	24.29	199.71	16.25
*	620.000	2385.50	503.00	3.80	.04	8.60	.00	.00	503.00	.00	26.35	193.49	16.34

	SECNO	CWSEL	Q	DEPTH	VLOB	VCH	VROB	QLOB	QCH	QROB	TOPWID	10*KS	DIFWSX
*	720.000	2400.92	231.00	2.62	.00	7.62	2.76	.00	225.54	5.46	18.88	242.81	16.55
*	720.000	2401.50	344.00	3.20	.00	8.44	3.52	.00	327.81	16.19	21.51	224.30	16.61
*	720.000	2401.77	402.00	3.47	.00	8.76	3.82	.00	378.49	23.51	22.71	216.72	16.64
*	720.000	2402.19	503.00	3.89	.00	9.24	4.25	.00	464.41	38.59	24.61	207.10	16.69
*	810.000	2418.66	231.00	3.16	.00	8.30	3.21	.00	226.75	4.24	14.16	308.28	17.75
*	810.000	2419.33	344.00	3.83	1.48	9.31	4.01	.24	331.96	11.80	16.14	281.53	17.83
*	810.000	2419.65	402.00	4.15	2.07	9.70	4.29	.99	384.17	16.84	17.13	265.94	17.88
*	810.000	2420.15	503.00	4.65	2.81	10.28	4.69	3.78	472.03	27.19	18.72	245.18	17.96
*	900.000	2442.61	231.00	3.01	.00	7.01	.00	.00	231.00	.00	22.14	346.07	23.95
*	900.000	2443.18	344.00	3.58	1.67	7.38	1.44	1.11	340.11	2.77	36.31	263.15	23.85
*	900.000	2443.42	402.00	3.81	2.07	7.54	1.89	3.07	389.36	9.57	43.99	236.52	23.77
*	900.000	2443.86	503.00	4.26	2.45	7.29	2.45	9.50	452.21	41.28	65.64	173.31	23.71
*	1000.000	2461.46	231.00	2.36	1.28	6.73	.00	.21	230.79	.00	26.32	345.69	18.85
*	1000.000	2461.94	344.00	2.84	2.28	7.31	1.63	3.00	338.79	2.20	34.87	274.91	18.76
*	1000.000	2462.16	402.00	3.06	2.58	7.51	2.04	5.73	390.07	6.20	38.99	249.66	18.75
*	1000.000	2462.51	503.00	3.41	2.97	7.80	2.53	12.17	473.04	17.79	45.44	219.00	18.65

SPRINGS, TRIB. 2A

SUMMARY PRINTOUT TABLE 150

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
	660.000	.00	.00	.00	2275.20	345.00	2278.02	.00	2278.70	149.57	6.68	54.61	28.21
	660.000	.00	.00	.00	2275.20	514.00	2278.54	2278.42	2279.41	150.15	7.72	74.51	41.95
	660.000	.00	.00	.00	2275.20	601.00	2278.77	2278.69	2279.72	149.46	8.13	84.75	49.16
	660.000	.00	.00	.00	2275.20	752.00	2279.11	2279.06	2280.19	150.84	8.79	101.50	61.23
*	100.000	580.00	.00	.00	2293.40	345.00	2296.16	2296.16	2296.85	281.50	6.70	52.49	20.56
*	100.000	580.00	.00	.00	2293.40	514.00	2296.60	2296.60	2297.44	240.14	7.45	71.58	33.17
*	100.000	580.00	.00	.00	2293.40	601.00	2296.80	2296.80	2297.71	227.09	7.77	81.00	39.88
*	100.000	580.00	.00	.00	2293.40	752.00	2297.13	2297.13	2298.13	203.73	8.18	98.01	52.69
*	220.000	630.00	.00	.00	2309.10	345.00	2311.98	2311.98	2312.87	224.06	7.60	46.98	23.05
*	220.000	630.00	.00	.00	2309.10	514.00	2312.63	2312.63	2313.60	176.53	8.11	70.53	38.69
*	220.000	630.00	.00	.00	2309.10	601.00	2312.89	2312.89	2313.91	167.89	8.41	82.05	46.38
*	220.000	630.00	.00	.00	2309.10	752.00	2313.33	2313.33	2314.34	143.29	8.56	105.32	62.82
*	290.000	370.00	.00	.00	2320.30	345.00	2322.65	2322.65	2323.42	250.44	7.10	50.01	21.80
*	290.000	370.00	.00	.00	2320.30	514.00	2323.14	2323.14	2324.09	220.92	7.97	67.81	34.58
*	290.000	370.00	.00	.00	2320.30	601.00	2323.37	2323.37	2324.40	210.55	8.33	76.59	41.42
	290.000	370.00	.00	.00	2320.30	752.00	2323.73	2323.73	2324.89	197.25	8.88	91.29	53.54
*	400.000	580.00	.00	.00	2337.20	345.00	2340.39	2340.39	2341.30	204.51	7.65	45.09	24.12
*	400.000	580.00	.00	.00	2337.20	514.00	2340.99	2340.99	2342.10	193.60	8.46	60.74	36.94
*	400.000	580.00	.00	.00	2337.20	601.00	2341.25	2341.25	2342.46	189.62	8.81	68.21	43.64
*	400.000	580.00	.00	.00	2337.20	752.00	2341.69	2341.69	2343.02	175.29	9.27	81.80	56.80
*	520.000	630.00	.00	.00	2365.60	231.00	2368.23	2368.23	2368.86	173.48	6.44	38.11	17.54
*	520.000	630.00	.00	.00	2365.60	344.00	2368.68	2368.68	2369.38	153.22	6.91	56.87	27.79
*	520.000	630.00	.00	.00	2365.60	402.00	2368.89	2368.89	2369.59	144.34	7.06	66.68	33.46
*	520.000	630.00	.00	.00	2365.60	503.00	2369.16	2369.16	2369.91	142.01	7.44	81.23	42.21
*	620.000	530.00	.00	.00	2381.70	231.00	2384.37	2384.37	2385.17	211.57	7.18	32.16	15.88
*	620.000	530.00	.00	.00	2381.70	344.00	2384.89	2384.89	2385.86	204.00	7.89	43.58	24.08
*	620.000	530.00	.00	.00	2381.70	402.00	2385.13	2385.13	2386.17	199.71	8.16	49.24	28.45
*	620.000	530.00	.00	.00	2381.70	503.00	2385.50	2385.50	2386.65	193.49	8.60	58.50	36.16
*	720.000	530.00	.00	.00	2398.30	231.00	2400.92	2400.92	2401.80	242.81	7.62	31.59	14.82
*	720.000	530.00	.00	.00	2398.30	344.00	2401.50	2401.50	2402.57	224.30	8.44	43.43	22.97
*	720.000	530.00	.00	.00	2398.30	402.00	2401.77	2401.77	2402.91	216.72	8.76	49.36	27.31
*	720.000	530.00	.00	.00	2398.30	503.00	2402.19	2402.19	2403.44	207.10	9.24	59.37	34.95
*	810.000	480.00	.00	.00	2415.50	231.00	2418.66	2418.66	2419.72	308.28	8.30	28.63	13.16
*	810.000	480.00	.00	.00	2415.50	344.00	2419.33	2419.33	2420.64	281.53	9.31	38.76	20.50
*	810.000	480.00	.00	.00	2415.50	402.00	2419.65	2419.65	2421.06	265.94	9.70	44.00	24.65
*	810.000	480.00	.00	.00	2415.50	503.00	2420.15	2420.15	2421.71	245.18	10.28	53.05	32.12

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
*	900.000	480.00	.00	.00	2439.60	231.00	2442.61	2442.61	2443.37	346.07	7.01	32.95	12.42
*	900.000	480.00	.00	.00	2439.60	344.00	2443.18	2443.18	2444.01	263.15	7.38	48.70	21.21
*	900.000	480.00	.00	.00	2439.60	402.00	2443.42	2443.42	2444.27	236.52	7.54	58.18	26.14
*	900.000	480.00	.00	.00	2439.60	503.00	2443.86	2443.86	2444.61	173.31	7.29	82.75	38.21
*	1000.000	530.00	.00	.00	2459.10	231.00	2461.46	2461.46	2462.17	345.69	6.73	34.46	12.42
*	1000.000	530.00	.00	.00	2459.10	344.00	2461.94	2461.94	2462.76	274.91	7.31	49.01	20.75
*	1000.000	530.00	.00	.00	2459.10	402.00	2462.16	2462.16	2463.02	249.66	7.51	57.17	25.44
*	1000.000	530.00	.00	.00	2459.10	503.00	2462.51	2462.51	2463.40	219.00	7.80	71.76	33.99

J SPRINGS, TRIB. 2A

SUMMARY PRINTOUT TABLE 150

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	660.000	345.00	2278.02	.00	.00	.00	33.94	.00
	660.000	514.00	2278.54	.52	.00	.00	42.60	.00
	660.000	601.00	2278.77	.23	.00	.00	46.43	.00
	660.000	752.00	2279.11	.34	.00	.00	52.09	.00
*	100.000	345.00	2296.16	.00	18.14	.00	41.78	580.00
*	100.000	514.00	2296.60	.43	18.06	.00	46.47	580.00
*	100.000	601.00	2296.80	.20	18.03	.00	48.62	580.00
*	100.000	752.00	2297.13	.34	18.02	.00	52.28	580.00
*	220.000	345.00	2311.98	.00	15.82	.00	30.01	630.00
*	220.000	514.00	2312.63	.65	16.04	.00	42.75	630.00
*	220.000	601.00	2312.89	.25	16.09	.00	47.99	630.00
*	220.000	752.00	2313.33	.45	16.20	.00	55.37	630.00
*	290.000	345.00	2322.65	.00	10.67	.00	34.77	370.00
*	290.000	514.00	2323.14	.49	10.51	.00	38.09	370.00
*	290.000	601.00	2323.37	.23	10.48	.00	39.63	370.00
*	290.000	752.00	2323.73	.36	10.39	.00	42.07	370.00
*	400.000	345.00	2340.39	.00	17.74	.00	25.00	580.00
*	400.000	514.00	2340.99	.59	17.85	.00	27.65	580.00
*	400.000	601.00	2341.25	.26	17.88	.00	29.08	580.00
*	400.000	752.00	2341.69	.44	17.96	.00	33.23	580.00
*	520.000	231.00	2368.23	.00	27.84	.00	36.52	630.00
*	520.000	344.00	2368.68	.45	27.70	.00	46.25	630.00
*	520.000	402.00	2368.89	.20	27.64	.00	50.59	630.00
*	520.000	503.00	2369.16	.27	27.47	.00	56.42	630.00
*	620.000	231.00	2384.37	.00	16.14	.00	20.17	530.00
*	620.000	344.00	2384.89	.53	16.21	.00	23.01	530.00
*	620.000	402.00	2385.13	.24	16.25	.00	24.29	530.00
*	620.000	503.00	2385.50	.37	16.34	.00	26.35	530.00
*	720.000	231.00	2400.92	.00	16.55	.00	18.88	530.00
*	720.000	344.00	2401.50	.59	16.61	.00	21.51	530.00
*	720.000	402.00	2401.77	.27	16.64	.00	22.71	530.00
*	720.000	503.00	2402.19	.42	16.69	.00	24.61	530.00
*	810.000	231.00	2418.66	.00	17.75	.00	14.16	480.00
*	810.000	344.00	2419.33	.67	17.83	.00	16.14	480.00
*	810.000	402.00	2419.65	.31	17.88	.00	17.13	480.00
*	810.000	503.00	2420.15	.51	17.96	.00	18.72	480.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	900.000	231.00	2442.61	.00	23.95	.00	22.14	480.00
*	900.000	344.00	2443.18	.57	23.85	.00	36.31	480.00
*	900.000	402.00	2443.42	.24	23.77	.00	43.99	480.00
*	900.000	503.00	2443.86	.44	23.71	.00	65.64	480.00
*	1000.000	231.00	2461.46	.00	18.85	.00	26.32	530.00
*	1000.000	344.00	2461.94	.48	18.76	.00	34.87	530.00
*	1000.000	402.00	2462.16	.22	18.75	.00	38.99	530.00
*	1000.000	503.00	2462.51	.35	18.65	.00	45.44	530.00

SUMMARY OF ERRORS AND SPECIAL NOTES

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CAUTION SECNO=    100.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    100.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    100.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    100.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    100.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    100.000  PROFILE=  3  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    100.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    100.000  PROFILE=  4  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    220.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    220.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    220.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    220.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    220.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    220.000  PROFILE=  3  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    220.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    220.000  PROFILE=  4  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    290.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    290.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    290.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    290.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    290.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    290.000  PROFILE=  3  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    290.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    290.000  PROFILE=  4  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    400.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    400.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    400.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    400.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    400.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    400.000  PROFILE=  3  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    400.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    400.000  PROFILE=  4  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    520.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    520.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    520.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    520.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    520.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    520.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    520.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    520.000  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    520.000  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    520.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    520.000  PROFILE=  4  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    520.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=    620.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    620.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
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CAUTION SECNO=    620.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    620.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    620.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    620.000  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    620.000  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    620.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    620.000  PROFILE=  4  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    620.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=    720.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    720.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    720.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    720.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    720.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    720.000  PROFILE=  3  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    720.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    720.000  PROFILE=  4  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    810.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    810.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    810.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    810.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    810.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    810.000  PROFILE=  3  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    810.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    810.000  PROFILE=  4  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    900.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    900.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    900.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    900.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    900.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    900.000  PROFILE=  3  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    900.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    900.000  PROFILE=  4  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=   1000.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1000.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   1000.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1000.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   1000.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   1000.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1000.000  PROFILE=  3  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   1000.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1000.000  PROFILE=  4  MINIMUM SPECIFIC ENERGY

Stop - Program terminated.

Stop - Program terminated.
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****************************************************
*  WATER SURFACE PROFILES                          *
*  VERSION OF SEPTEMBER 1988                       *
*  ERROR: 01,02,03                                 *
*    DATED:  SEPTEMBER 1989                        *
*  RUN DATE     3/23/90    TIME    13:21:13        *
****************************************************
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****************************************
*  U.S. ARMY CORPS OF ENGINEERS
*  THE HYDROLOGIC ENGINEERING CENTER
*  609 SECOND STREET, SUITE D
*  DAVIS, CALIFORNIA 95616-4687
*           (916) 756-1104
****************************************
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X     X  XXXXXXX   XXXXX              XXXXX
X     X  X        X     X            X     X
X     X  X        X                        X
XXXXXXX  XXXX     X          XXXXX    XXXXX
X     X  X        X                  X
X     X  X        X     X            X
X     X  XXXXXXX   XXXXX             XXXXXXX
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END OF BANNER

THIS RUN EXECUTED 3/23/90 13:21:14

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**************************************************
  HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989


  ERROR CORR -  01,02,03
  MODIFICATION -
**************************************************


T1        FLOOD CONTROL DISTRICT OF MARICOPA CO. - LA027815.H2
T2        100-YEAR FLOOD FREQUENCY MODEL (NATURAL CONDITIONS)
T3        WILLOW SPR. TRIB. 2A   (WST2A.MCE)

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

                2                                                                  2278.77

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

     1                  -1


    ARIABLE CODES FOR SUMMARY PRINTOUT

     38        43        26         8        42        39         1        34         4        53
     21        22        54         0        38        43         1        50        51        27
     21        22        28         5         3        61       200

J5  LPRNT    NUMSEC                    ********REQUESTED SECTION NUMBERS********

    -10       -10

QT        2       601       601
NC      .05       .05      .045
ET                          4.1     9976.9     10000.0
          THIS ENCROACHMENT MODEL IS BASED ON 100-YEAR NATURAL CONDITIONS.
          REFER TO FILE WST2A.OUT (CH2M HILL, 1990)

X1      660        10    9976.9    10000.0
GR   2285.2    9878.8    2281.6     9922.1     2279.4     9949.9     2277.5     9976.9     2275.6     9980.8
GR   2275.2    9988.4    2276.6    10000.0     2280.3    10009.0     2285.8    10035.2     2294.1    10068.9

ET                          4.1     9947.9     9996.6
X1      100        14    9952.9     9990.6        580        580        580
GR   2314.8    9852.5    2304.8     9905.1     2297.3     9944.4     2296.1     9952.9     2295.0     9964.5
GR   2293.4    9974.2    2294.3     9975.7     2295.2     9990.6     2297.7    10000.0     2301.2    10026.9
GR   2304.0   10059.3    2306.3    10082.9     2308.5    10123.2     2311.5    10159.1
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ET                          4.1     9972.6    10020.6
        FLOODWAY SET EQUAL TO 100-YEAR FLOOD LIMITS
X1     220        14     9991.4    10014.3       630       630       630
GR  2330.7    9843.2    2325.8     9894.2    2319.0    9929.9    2314.0    9965.5    2313.1    9969.9
GR  2311.4    9991.4    2309.1     9998.6    2309.1   10000.0    2310.0   10010.0    2312.1   10014.3
GR  2316.8   10051.7    2322.6    10104.2    2326.3   10150.6    2326.3   10174.8

ET                          4.1     9973.2    10012.8
X1     290        16     9978.4    10008.0       370       370       370
GR  2340.5    9901.6    2333.9     9930.4    2328.7    9942.0    2325.0    9965.9    2322.2    9978.4
GR  2320.3    9988.2    2321.3     9999.5    2321.0   10000.0    2321.3   10008.0    2324.3   10015.0
GR  2328.9   10041.4    2331.7    10070.0    2332.1   10081.3    2334.1   10107.5    2337.1   10127.4
GR  2340.0   10137.2

NC     .05       .05       .04
ET                          9.1                                                      9987.7   10016.8
X1     400        18     9986.4    10016.4       580       580       580
GR  2356.5    9823.3    2355.2     9877.1    2350.7    9916.1    2349.6    9950.7    2349.4    9970.6
GR  2347.9    9980.0    2341.8     9986.4    2338.1    9995.0    2337.6    9999.7    2337.2   10000.0
GR  2339.7   10013.2    2341.2    10016.4    2345.7   10048.7    2349.6   10080.5    2351.1   10115.2
GR  2352.5   10138.8    2355.8    10162.8    2360.6   10175.9

QT       2       402       402
ET                          4.1     9985.6    10056.9
X1     520        20     9989.3    10016.4       630       630       630
GR  2383.0    9867.7    2379.7     9913.1    2378.1    9925.8    2378.0    9938.7    2375.8    9962.0
GR  2373.0    9973.8    2367.6     9989.3    2366.2    9995.5    2365.6   10000.0    2367.9   10011.0
GR  2369.5   10016.4    2369.2    10032.3    2368.0   10042.8    2368.0   10051.2    2370.0   10064.1
GR  2372.1   10092.4    2375.0    10121.9    2379.6   10158.0    2382.1   10188.2    2384.2   10200.3

ET                          9.1                                                      9990.5   10014.8
X1     620        16     9989.9    10018.0       530       530       530
GR  2403.5    9921.4    2397.8     9956.1    2389.7    9979.0    2388.7    9979.1    2385.4    9989.9
GR  2382.4    9997.1    2381.7    10000.0    2382.6   10007.3    2386.2   10018.0    2392.7   10030.4
GR  2393.2   10031.8    2396.8    10052.2    2400.2   10074.6    2404.9   10100.7    2407.8   10125.9
GR  2408.5   10132.7

NC    .055      .055      .045
ET                          9.1                                                      9990.2   10012.8
X1     720        13     9988.0    10006.6       530       530       530
GR  2419.2    9948.1    2412.7     9970.3    2407.0    9985.7    2403.4    9988.0    2398.3    9994.7
GR  2398.7    9997.1    2398.3    10000.0    2399.8   10006.6    2402.7   10015.8    2406.3   10024.7
GR  2412.7   10049.5    2419.3    10068.0    2420.5   10080.8

NC    .055      .055       .05
ET                          4.1     9989.5    10006.5
X1     810        13     9990.7    10003.2       480       480       480
GR  2436.5    9961.9    2423.5     9982.8    2418.9    9990.7    2415.8    9994.4    2415.5    9998.4
GR  2416.3   10000.0    2417.3    10003.2    2421.3   10008.9    2424.6   10017.5    2428.2   10031.4
GR  2432.1   10052.2    2436.2    10075.8    2438.3   10084.5
```

ET			4.1	9987.4	10031.3					
X1	900	17	9991.5	10014.9	480	480	480			
GR	2463.7	9914.1	2455.3	9951.2	2446.1	9979.2	2444.1	9983.4	2442.7	9991.5
GR	2439.6	9998.9	2439.6	10000.0	2441.2	10006.0	2442.8	10014.9	2443.6	10036.3
GR	2443.7	10049.0	2445.5	10065.3	2448.0	10087.1	2452.4	10115.6	2458.4	10139.8
GR	2462.8	10169.8	2464.4	10180.2						
ET			4.1	9980.1	10019.0					
X1	1000	17	9984.7	10009.9	530	530	530			
GR	2480.4	9923.4	2468.2	9955.4	2464.6	9968.4	2461.2	9984.7	2459.9	9993.2
GR	2459.2	9997.4	2459.1	10000.0	2459.8	10003.7	2461.5	10009.9	2463.0	10030.7
GR	2463.4	10031.4	2465.4	10053.7	2468.4	10079.5	2473.4	10106.6	2476.3	10125.6
GR	2479.6	10148.6	2481.0	10157.6						

FLOOD CONTROL DISTRICT OF MARICOPA CO. - LA027815.H2
T2 100-YEAR FLOOD FREQUENCY MODEL (ENCROACHMENT CONDITIONS)
T3 WILLOW SPR. TRIB. 2A (WST2A.MCE)

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
		3							2279.77	
J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	15		-1							

THIS RUN EXECUTED 3/23/90 13:21:36

****
HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989

ERROR CORR - 01,02,03
MODIFICATION -
****

NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

WILLOW SPR. TRIB. 2A

SUMMARY PRINTOUT

	SECNO	Q	VCH	DEPTH	ELMIN	XLCH	CWSEL	.01K	TOPWID	SSTA	STCHL	STCHR	ENDST
	660.000	601.00	8.13	3.57	2275.20	.00	2278.77	49.16	46.43	9958.85	9976.90	10000.00	10005.28
	660.000	601.00	6.63	4.57	2275.20	.00	2279.77	63.90	23.10	9976.90	9976.90	10000.00	10000.00
	100.000	601.00	7.77	3.40	2293.40	580.00	2296.80	39.88	48.62	9947.98	9952.90	9990.60	9996.60
*	100.000	601.00	7.70	3.41	2293.40	580.00	2296.81	40.54	48.70	9947.90	9952.90	9990.60	9996.60
*	220.000	601.00	8.41	3.79	2309.10	630.00	2312.89	46.38	47.99	9972.58	9991.40	10014.30	10020.57
*	220.000	601.00	8.05	3.88	2309.10	630.00	2312.98	49.48	48.00	9972.60	9991.40	10014.30	10020.60
*	290.000	601.00	8.33	3.07	2320.30	370.00	2323.37	41.42	39.63	9973.19	9978.40	10008.00	10012.82
*	290.000	601.00	8.25	3.09	2320.30	370.00	2323.39	42.03	39.60	9973.20	9978.40	10008.00	10012.80
*	400.000	601.00	8.81	4.05	2337.20	580.00	2341.25	43.64	29.08	9987.68	9986.40	10016.40	10016.76
*	400.000	601.00	8.85	4.04	2337.20	580.00	2341.24	43.39	29.00	9987.70	9986.40	10016.40	10016.70
*	520.000	402.00	7.06	3.29	2365.60	630.00	2368.89	33.46	50.59	9985.61	9989.30	10016.40	10056.92
*	520.000	402.00	7.03	3.29	2365.60	630.00	2368.89	33.63	50.65	9985.60	9989.30	10016.40	10056.90
*	620.000	402.00	8.16	3.43	2381.70	530.00	2385.13	28.45	24.29	9990.54	9989.90	10018.00	10014.83
*	620.000	402.00	8.19	3.43	2381.70	530.00	2385.13	28.32	24.24	9990.56	9989.90	10018.00	10014.80
*	720.000	402.00	8.76	3.47	2398.30	530.00	2401.77	27.31	22.71	9990.14	9988.00	10006.60	10012.85
*	720.000	402.00	8.69	3.49	2398.30	530.00	2401.79	27.67	22.60	9990.20	9988.00	10006.60	10012.80
*	810.000	402.00	9.70	4.15	2415.50	480.00	2419.65	24.65	17.13	9989.42	9990.70	10003.20	10006.54
*	810.000	402.00	9.65	4.16	2415.50	480.00	2419.66	24.85	17.00	9989.50	9990.70	10003.20	10006.50
*	900.000	402.00	7.54	3.81	2439.60	480.00	2443.42	26.14	43.99	9987.36	9991.50	10014.90	10031.35
	900.000	402.00	7.30	3.87	2439.60	480.00	2443.47	27.46	43.90	9987.40	9991.50	10014.90	10031.30
*	1000.000	402.00	7.51	3.06	2459.10	530.00	2462.16	25.44	38.99	9980.09	9984.70	10009.90	10019.08
*	1000.000	402.00	7.38	3.09	2459.10	530.00	2462.19	26.16	38.90	9980.10	9984.70	10009.90	10019.00

.LOW SPR. TRIB. 2A

SUMMARY PRINTOUT

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	STENCL	STCHL	STCHR	STENCR	10*KS	EG	DIFEG
	660.000	601.00	2278.77	.00	.00	.00	9976.90	10000.00	.00	149.46	2279.72	.00
	660.000	601.00	2279.77	1.00	.00	9976.90	9976.90	10000.00	10000.00	88.45	2280.45	.73
*	100.000	601.00	2296.80	.00	18.03	.00	9952.90	9990.60	.00	227.09	2297.71	.00
*	100.000	601.00	2296.81	.02	17.04	9947.90	9952.90	9990.60	9996.60	219.78	2297.71	.00
*	220.000	601.00	2312.89	.00	16.09	.00	9991.40	10014.30	.00	167.89	2313.91	.00
*	220.000	601.00	2312.98	.09	16.16	9972.60	9991.40	10014.30	10020.60	147.53	2313.90	-.01
*	290.000	601.00	2323.37	.00	10.48	.00	9978.40	10008.00	.00	210.55	2324.40	.00
*	290.000	601.00	2323.39	.02	10.41	9973.20	9978.40	10008.00	10012.80	204.43	2324.40	.00
*	400.000	601.00	2341.25	.00	17.88	.00	9986.40	10016.40	.00	189.62	2342.46	.00
*	400.000	601.00	2341.24	-.01	17.86	9987.70	9986.40	10016.40	10016.80	191.84	2342.46	.00
*	520.000	402.00	2368.89	.00	27.64	.00	9989.30	10016.40	.00	144.34	2369.59	.00
*	520.000	402.00	2368.89	.01	27.65	9985.60	9989.30	10016.40	10056.90	142.88	2369.59	.00
	620.000	402.00	2385.13	.00	16.25	.00	9989.90	10018.00	.00	199.71	2386.17	.00
*	620.000	402.00	2385.13	-.01	16.24	9990.50	9989.90	10018.00	10014.80	201.55	2386.17	.00
*	720.000	402.00	2401.77	.00	16.64	.00	9988.00	10006.60	.00	216.72	2402.91	.00
*	720.000	402.00	2401.79	.02	16.66	9990.20	9988.00	10006.60	10012.80	211.11	2402.91	.00
*	810.000	402.00	2419.65	.00	17.88	.00	9990.70	10003.20	.00	265.94	2421.06	.00
*	810.000	402.00	2419.66	.01	17.87	9989.50	9990.70	10003.20	10006.50	261.65	2421.06	.00
*	900.000	402.00	2443.42	.00	23.77	.00	9991.50	10014.90	.00	236.52	2444.27	.00
*	900.000	402.00	2443.47	.06	23.81	9987.40	9991.50	10014.90	10031.30	214.36	2444.27	-.00
*	1000.000	402.00	2462.16	.00	18.75	.00	9984.70	10009.90	.00	249.66	2463.02	.00
*	1000.000	402.00	2462.19	.03	18.72	9980.10	9984.70	10009.90	10019.00	236.13	2463.01	-.00

SUMMARY OF ERRORS AND SPECIAL NOTES

```
CAUTION SECNO=    100.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    100.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    100.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    100.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    100.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=    220.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    220.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    220.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    220.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    290.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    290.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    290.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    290.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    400.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    400.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    400.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    400.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    520.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    520.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    520.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    520.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    520.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    520.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=    620.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    620.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    620.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    620.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    620.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    620.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=    720.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    720.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    720.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    720.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    810.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    810.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    810.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    810.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    900.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    900.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    900.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    900.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=   1000.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
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    ON SECNO=   1000.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=  1000.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=  1000.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
```

FLOODWAY DATA, WILLOW SPR. TRIB. 2A
PROFILE NO. 2

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE
660.000	23.	91.	6.6	2279.8	2278.8	1.0
100.000	49.	82.	7.3	2296.8	2296.8	.0
220.000	48.	86.	7.0	2313.0	2312.9	.1
290.000	40.	77.	7.8	2323.4	2323.4	.0
400.000	29.	68.	8.8	2341.2	2341.3	-.1
520.000	71.	67.	6.0	2368.9	2368.9	.0
620.000	24.	49.	8.2	2385.1	2385.1	.0
720.000	23.	50.	8.1	2401.8	2401.8	.0
810.000	17.	44.	9.1	2419.7	2419.6	.1
900.000	44.	61.	6.6	2443.5	2443.4	.1
1000.000	39.	58.	6.9	2462.2	2462.2	.0

```
*****************************************************
*  WATER SURFACE PROFILES                           *
*  VERSION OF SEPTEMBER 1988                        *
*  ERROR: 01,02,03                                  *
*  UPDATED:  SEPTEMBER 1989                         *
*  RUN DATE     3/27/90    TIME    7:38:18          *
*****************************************************
```

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*************************************
*  U.S. ARMY CORPS OF ENGINEERS
*  THE HYDROLOGIC ENGINEERING CENTER
*  609 SECOND STREET, SUITE D
*  DAVIS, CALIFORNIA 95616-4687
*           (916) 756-1104
*************************************
```

```
X     X  XXXXXXX   XXXXX              XXXXX
X     X  X        X     X            X     X
X     X  X        X                        X
XXXXXXX  XXXX     X          XXXXX    XXXXX
X     X  X        X                  X
X     X  X        X     X            X
X     X  XXXXXXX   XXXXX             XXXXXXX
```

END OF BANNER

THIS RUN EXECUTED 3/27/90 7:38:18

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**************************************************
  HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989


  ERROR CORR -  01,02,03
  MODIFICATION -
**************************************************


T1       FLOOD CONTROL DISTRICT OF MARICOPA CO. - LA027815.H2
T2       10-YEAR FLOOD FREQUENCY MODEL
T3       WILLOW SPRINGS, TRIB 4   (WST4.DAT)


J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

              2                         .015                                2330.57

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

    1                 -1


J3  VARIABLE CODES FOR SUMMARY PRINTOUT

    38       1        43       8        55       26       56       13       14       15
     4       5        51
   150


QT       4       180      271      318      402

NC     .05      .05      .04       .1       .3

         ******REVISED STREAMFLOWS FROM CVCRK43R.OUT*******
         COMMON SECTION IS SEC. 2930 OF WILLOW SPR. TRIB.3
         SEC. 000 = SEC. 2.94 OF WILLOW SPR. TRIB. 3
         STRT DETERMINED BY SLOPE/AREA METHOD
         QT VALUES ARE FROM HEC-1 SUBWTRSHD 'F2D
X1     2930       15     9980.8   10041.6
GR   2349.2    9930.5   2346.0    9947.3   2335.6   9971.6   2332.1   9980.8   2330.3   9995.5
GR   2329.5   10000.0   2329.0   10015.4   2330.2  10032.2   2331.8  10041.6   2333.8  10045.5
GR   2339.4   10070.1   2340.2   10095.0   2342.2  10115.4   2345.8  10140.2   2348.7  10149.1


X1     120       16     9994.2   10009.7    690      690      690
GR   2374.9    9915.2   2361.8    9945.7   2358.9   9957.1   2358.2   9974.9   2357.5   9979.4
GR   2356.0    9988.4   2353.2    9994.2   2351.9  10000.0   2353.4  10009.7   2356.5  10014.0
GR   2357.6   10020.9   2361.5   10048.5   2366.3  10066.6   2374.0  10083.7   2378.9  10100.8
GR   2380.7   10110.4
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X1     210       13     9990.9   10009.6     480      480      480
GR  2395.1   9950.3   2388.1    9970.1  2378.5   9981.6   2372.8   9990.9   2371.3   9996.4
GR  2369.9  10000.0   2372.7   10009.6  2377.6  10014.1   2384.6  10016.5   2390.2  10031.0
GR  2392.4  10034.9   2395.3   10057.7  2396.1  10061.8

NC     .05       .05      .05

X1     310       13     9993.8   10046.2     530      530      530
GR  2411.6   9932.6   2399.5    9960.2  2395.8   9978.6   2396.3   9979.8   2391.5   9993.8
GR  2390.8  10000.0   2392.0   10015.8  2392.0  10019.2   2390.8  10029.8   2392.1  10046.2
GR  2395.5  10063.0   2400.5   10080.6  2408.2  10094.0

NC     .05       .05      .04

X1     380       11    10000.0   10015.9     380      320      370
GR  2423.2   9918.7   2413.6    9944.0  2406.4   9967.6   2404.7   9978.8   2404.3   9995.1
GR  2403.8  10000.0   2401.5   10009.4  2401.6  10015.9   2406.0  10023.5   2409.3  10027.1
GR  2423.0  10054.3

X1     450       16     9991.3   10009.7     370      370      370
GR  2433.8   9943.4   2432.8    9962.9  2431.2   9972.4   2426.4   9980.3   2418.4   9985.9
GR  2414.9   9991.3   2413.6    9998.9  2414.1  10000.0   2414.9  10009.7   2416.5  10023.0
GR  2416.1  10023.3   2417.2   10046.1  2418.8  10064.2   2423.8  10077.1   2429.2  10090.5
GR  2437.4  10102.1

QT       4      124      186       219     277

        QT VALUES ARE 69% OF SUBWTRSHD F2D
X1     520       12     9990.4   10015.6     370      370      370
GR  2453.4   9946.0   2443.4    9967.1  2436.6   9978.4   2432.0   9990.4   2431.2   9997.2
GR  2430.4  10000.0   2431.5   10008.8  2432.8  10015.6   2433.6  10042.5   2436.6  10064.9
GR  2443.9  10083.5   2450.9   10094.2

X1     580       13     9993.8   10007.7     320      270      320
GR  2466.3   9905.4   2457.7    9935.1  2455.3   9956.7   2454.3   9965.4   2450.7   9972.8
GR  2444.9   9988.0   2441.4    9993.8  2440.3  10000.0   2441.1  10007.7   2444.1  10016.5
GR  2451.2  10025.3   2460.2   10049.7  2462.6  10054.4

X1     690       13     9991.4   10006.8     530      580      580
GR  2487.9   9926.8   2485.2    9950.3  2480.4   9965.6   2472.7   9976.4   2469.6   9991.4
GR  2468.4   9998.4   2467.2   10000.0  2469.1  10006.8   2474.8  10018.4   2478.7  10019.2
GR  2483.0  10030.7   2487.1   10046.9  2488.7  10053.3
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X1     800       14     9989.3   10017.7      580       580       580
GR  2511.9   9919.1     2504.0    9949.0   2497.3    9973.1    2496.0    9974.9    2493.0    9989.3
GR  2491.2   9996.4     2490.6   10000.0   2491.5   10009.2    2493.7   10017.7    2496.3   10022.1
GR  2503.0  10043.9     2506.4   10058.2   2508.9   10080.8    2511.2   10092.9

X1     890       13     9984.0   10010.4      420       540       480
GR  2532.1   9912.9     2529.7    9942.5   2524.1    9962.8    2518.4    9974.5    2514.2    9984.0
GR  2513.0   9992.6     2512.2    9999.2   2513.0   10000.0    2514.0   10010.4    2517.6   10012.0
GR  2523.1  10031.1     2529.6   10054.8   2533.3   10062.1

QT      4       75        113       133       168

        QT VALUES ARE 42% OF SUBWTRSHD F2D
X1     980       12    10000.0   10008.3      520       460       480
GR  2561.2   9931.4     2556.4    9950.8   2548.5    9973.6    2543.9    9980.6    2540.8    9993.4
GR  2538.5  10000.0     2538.5   10008.3   2541.1   10018.1    2543.5   10019.7    2550.3   10042.2
GR  2555.3  10064.8     2559.6   10074.4

X1    1090       11     9983.0   10010.7      580       580       580
GR  2579.4   9852.4     2575.0    9904.3   2568.6    9947.4    2564.4    9973.2    2560.9    9983.0
GR  2561.0   9995.4     2560.1   10000.0   2562.1   10010.7    2564.0   10015.6    2568.1   10038.1
    2578.9  10063.0
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```
SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     BANK ELEV
Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA     LEFT/RIGHT
TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


*PROF 1

CCHV=     .100 CEHV=     .300
*SECNO 2930.000
        ******REVISED STREAMFLOWS FROM CVCRK43R.OUT*******
        COMMON SECTION IS SEC. 2930 OF WILLOW SPR. TRIB.3
        SEC. 000 = SEC. 2.94 OF WILLOW SPR. TRIB. 3
        STRT DETERMINED BY SLOPE/AREA METHOD
        QT VALUES ARE FROM HEC-1 SUBWTRSHD 'F2D
 2930.000     1.57  2330.57      .00  2330.57  2330.88      .31      .00      .00  2332.10
    180.       0.     180.       0.       0.     40.       0.       0.       0.   2331.80
     .00      .00     4.46      .00     .000     .040     .000     .000  2329.00  9993.29
  .014858      0.       0.       0.        0        0        0      .00    41.08 10034.37


*SECNO 120.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  120.000     2.32  2354.22  2354.22      .00  2354.98      .76    11.72      .14  2353.20
    180.       3.     176.       1.       1.     25.       0.       1.       0.   2353.40
     .03     2.48     7.07     2.00     .050     .040     .050     .000  2351.90  9992.08
  .019612     690.     690.     690.        8       14        0      .00    18.76 10010.84


*SECNO 210.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  210.000     2.89  2372.79  2372.79      .00  2373.52      .73    10.20      .00  2372.80
    180.       0.     180.       0.       0.     26.       0.       1.       1.   2372.70
     .05      .00     6.87      .05     .000     .040     .050     .000  2369.90  9990.95
  .023114     480.     480.     480.       10       11        0      .00    18.73 10009.68


*SECNO 310.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  310.000     1.33  2392.13  2392.13      .00  2392.49      .36    16.19      .04  2391.50
    180.       2.     178.       0.       1.     37.       0.       1.       1.   2392.10
     .08     2.73     4.83      .06     .050     .050     .050     .000  2390.80  9991.96
  .042241     530.     530.     530.        4       18        0      .00    54.39 10046.35
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SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     BANK ELEV
Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA     LEFT/RIGHT
TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


*SECNO 380.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  380.000     2.18  2403.68  2403.68      .00  2404.40      .72     10.58      .11  2403.80
     180.       0.      165.      15.       0.      23.       4.       1.       1.   2401.60
      .09      .00      7.03     3.99     .000     .040     .050     .000  2401.50 10000.51
  .020833     380.      370.     320.        5       14        0      .00    18.98 10019.49


*SECNO 450.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  450.000     2.20  2415.80  2415.80      .00  2416.41      .61      7.28      .01  2414.90
     180.       1.      171.       8.       1.      27.       3.       2.       2.   2414.90
      .11     2.12      6.42     2.37     .050     .040     .050     .000  2413.60  9989.91
  .018593     370.      370.     370.       10        5        0      .00    27.30 10017.21


*SECNO 520.000
   20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
        QT VALUES ARE 69% OF SUBWTRSHD F2D
  520.000     1.87  2432.27  2432.27      .00  2432.77      .50      7.70      .01  2432.00
     124.       0.      124.       0.       0.      22.       0.       2.       2.   2432.80
      .13      .05      5.69      .00     .050     .040     .000     .000  2430.40  9989.70
  .024782     370.      370.     370.       20       15        0      .00    23.12 10012.82


*SECNO 580.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  580.000     1.82  2442.12  2442.12      .00  2442.72      .61      7.07      .03  2441.40
     124.       1.      119.       4.       0.      19.       2.       2.       2.   2441.10
      .14     1.91      6.36     2.57     .050     .040     .050     .000  2440.30  9992.61
  .019933     320.      320.     270.        3        8        0      .00    18.07 10010.68


*SECNO 690.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  690.000     2.56  2469.76  2469.76      .00  2470.38      .62     12.37      .00  2469.60
     124.       0.      123.       1.       0.      19.       0.       2.       2.   2469.10
      .17      .04      6.35     2.00     .050     .040     .050     .000  2467.20  9990.63
  .022892     530.      580.     580.       10       14        0      .00    17.51 10008.14
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SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     BANK ELEV
Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA     LEFT/RIGHT
TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


*SECNO 800.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  800.000     1.76  2492.36  2492.36      .00  2492.88      .53     13.63       .01  2493.00
     124.       0.     124.       0.       0.      21.       0.        3.        2.  2493.70
      .19      .00     5.82      .00     .000     .040     .000      .000   2490.60  9991.84
  .024124     580.     580.     580.        4       19        0       .00     20.66 10012.51


*SECNO 890.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  890.000     1.95  2514.15  2514.15      .00  2514.60      .45     11.84       .01  2514.20
     124.       0.     124.       0.       0.      23.       0.        3.        3.  2514.00
      .22      .00     5.37      .05     .000     .040     .050      .000   2512.20  9984.33
  .025220     420.     480.     540.        3        8        0       .00     26.14 10010.47


*SECNO 980.000
   20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
        QT VALUES ARE 42% OF SUBWTRSHD F2D
  980.000     1.21  2539.71  2539.71      .00  2540.19      .49     11.21       .01  2538.50
     75.        6.      61.       8.       2.      10.       3.        3.        3.  2538.50
      .24     2.93     6.05     2.98     .050     .040     .050      .000   2538.50  9996.53
  .020614     520.     480.     460.       20       14        0       .00     16.32 10012.85


*SECNO 1090.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1090.000     1.38  2561.48  2561.48      .00  2561.81      .33     13.84       .02  2560.90
     75.        1.      74.       0.       0.      16.       0.        3.        3.  2562.10
      .28     2.09     4.65      .00     .050     .040     .000      .000   2560.10  9981.38
  .027938     580.     580.     580.        5       11        0       .00     26.00 10007.38
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     FLOOD CONTROL DISTRICT OF MARICOPA CO. - LA027815.H2
T2   50-YEAR FLOOD FREQUENCY MODEL
T3   WILLOW SPRINGS, TRIB. 4   (WST4.DAT)

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

              3                         .015                               2330.87

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

    2                  -1
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SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     BANK ELEV
Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA     LEFT/RIGHT
TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


*PROF 2

CCHV=     .100 CEHV=     .300
*SECNO 2930.000
        ******REVISED STREAMFLOWS FROM CVCRK43R.OUT*******
        COMMON SECTION IS SEC. 2930 OF WILLOW SPR. TRIB.3
        SEC. 000 = SEC. 2.94 OF WILLOW SPR. TRIB. 3
        STRT DETERMINED BY SLOPE/AREA METHOD
        QT VALUES ARE FROM HEC-1 SUBWTRSHD 'F2D
 2930.000     1.87  2330.87      .00  2330.87  2331.27      .40      .00      .00  2332.10
    271.       0.     271.       0.       0.      53.       0.       0.       0.   2331.80
     .00      .00     5.08      .00     .000     .040     .000     .000  2329.00  9990.84
  .015171       0.       0.       0.        0        0        0      .00    45.29 10036.14


*SECNO 120.000

3301 HV CHANGED MORE THAN HVINS

    MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  120.000     2.82  2354.72  2354.72      .00  2355.68      .96    11.25      .17  2353.20
    271.       7.     261.       3.       2.      33.       1.       1.       1.   2353.40
     .02     3.05     7.99     2.59     .050     .040     .050     .000  2351.90  9991.06
  .017558     690.     690.     690.       10       14        0      .00    20.47 10011.53


*SECNO 210.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  210.000     3.34  2373.24  2373.24      .00  2374.18      .95     9.12      .00  2372.80
    271.       0.     271.       0.       0.      35.       0.       1.       1.   2372.70
     .04     1.40     7.81     1.37     .050     .040     .050     .000  2369.90  9990.18
  .020622     480.     480.     480.       13       11        0      .00    19.91 10010.09


*SECNO 310.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  310.000     1.55  2392.35  2392.35      .00  2392.82      .47    14.55      .05  2391.50
    271.       3.     267.       0.       1.      49.       0.       2.       1.   2392.10
     .07     3.17     5.51     1.44     .050     .050     .050     .000  2390.80  9991.32
  .038329     530.     530.     530.        3       14        0      .00    56.12 10047.44
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SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     BANK ELEV
Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA     LEFT/RIGHT
TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


*SECNO 380.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  380.000     2.65  2404.15  2404.15      .00  2405.06      .91      9.62      .13  2403.80
     271.       1.     246.      25.       1.      31.       6.        2.       2.   2401.60
      .08     1.28     7.91     4.38     .050     .040     .050      .000  2401.50  9996.54
  .018995     380.     370.     320.        5        14        0       .00    23.77 10020.31


*SECNO 450.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  450.000     2.62  2416.22  2416.22      .00  2416.96      .75      6.60      .02  2414.90
     271.       3.     247.      21.       1.      34.       7.        2.       2.   2414.90
      .10     2.59     7.21     2.85     .050     .040     .050      .000  2413.60  9989.27
  .016788     370.     370.     370.       10         5        0       .00    33.87 10025.71


*SECNO 520.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
        QT VALUES ARE 69% OF SUBWTRSHD F2D
  520.000     2.20  2432.60  2432.60      .00  2433.21      .61      6.93      .01  2432.00
     186.       1.     185.       0.       0.      30.       0.        3.       2.   2432.80
      .11     1.90     6.27      .00     .050     .040     .000      .000  2430.40  9988.84
  .022240     370.     370.     370.       20        15        0       .00    25.71 10014.55


*SECNO 580.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  580.000     2.21  2442.51  2442.51      .00  2443.27      .76      6.38      .05  2441.40
     186.       2.     175.       9.       1.      24.       3.        3.       2.   2441.10
      .13     2.44     7.20     3.06     .050     .040     .050      .000  2440.30  9991.96
  .018117     320.     320.     270.        5         5        0       .00    19.88 10011.84


*SECNO 690.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
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SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     BANK ELEV
Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA     LEFT/RIGHT
TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  690.000     2.98  2470.18  2470.18       .00  2470.93       .75     10.77       .00  2469.60
     186.       1.      182.       3.        1.      26.        1.        3.        2.   2469.10
      .15     1.77      7.02     2.53      .050     .040      .050      .000   2467.20  9988.60
  .019069     530.      580.     580.        20       11         0       .00     20.40 10009.00


*SECNO 800.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  800.000     2.11  2492.71  2492.71       .00  2493.34       .63     12.05       .01  2493.00
     186.       0.      186.       0.        0.      29.        0.        4.        3.   2493.70
      .17      .00      6.39      .00      .000     .040      .000      .000   2490.60  9990.45
  .022707     580.      580.     580.         3       19         0       .00     23.43 10013.87


*SECNO 890.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  890.000     2.23  2514.43  2514.43       .00  2515.01       .59     11.08       .00  2514.20
     186.       0.      186.       0.        0.      30.        0.        4.        3.   2514.00
      .20      .05      6.15      .05      .050     .040      .050      .000   2512.20  9983.49
  .023459     420.      480.     540.         9        8         0       .00     27.10 10010.59


*SECNO 980.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
        QT VALUES ARE 42% OF SUBWTRSHD F2D
  980.000     1.54  2540.04  2540.04       .00  2540.63       .59     10.36       .00  2538.50
     113.       11.      87.      15.        3.      13.        4.        4.        3.   2538.50
      .22     3.30      6.80     3.35      .050     .040      .050      .000   2538.50  9995.59
  .018891     520.      480.     460.        20       19         0       .00     18.51 10014.10


*SECNO 1090.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1090.000     1.59  2561.69  2561.69       .00  2562.11       .42     12.70       .02  2560.90
     113.       2.      111.       0.        1.      21.        0.        4.        4.   2562.10
      .25     2.46      5.23      .00      .050     .040      .000      .000   2560.10  9980.79
  .025664     580.      580.     580.         4        8         0       .00     27.72 10008.51
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     FLOOD CONTROL DISTRICT OF MARICOPA CO. - LA027815.H2
T2   100-YEAR FLOOD FREQUENCY MODEL
T3   WILLOW SPRINGS, TRIB. 4   (WST4.DAT)

J1  ICHECK   INQ     NINV    IDIR    STRT    METRIC  HVINS   Q       WSEL    FQ

             4                   .015                            2331.01

J2  NPROF    IPLOT   PRFVS   XSECV   XSECH   FN      ALLDC   IBW     CHNIM   ITRACE

    3                -1
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SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*PROF 3

CCHV=     .100 CEHV=     .300
*SECNO 2930.000
        ******REVISED STREAMFLOWS FROM CVCRK43R.OUT*******
        COMMON SECTION IS SEC. 2930 OF WILLOW SPR. TRIB.3
        SEC. 000 = SEC. 2.94 OF WILLOW SPR. TRIB. 3
        STRT DETERMINED BY SLOPE/AREA METHOD
        QT VALUES ARE FROM HEC-1 SUBWTRSHD 'F2D
 2930.000     2.01  2331.01      .00  2331.01  2331.45      .44      .00      .00  2332.10
    318.       0.     318.       0.       0.     60.       0.       0.       0.   2331.80
     .00      .00     5.32      .00     .000     .040     .000     .000  2329.00  9989.70
  .015090       0.       0.       0.        0        0        0      .00    47.26 10036.96


*SECNO 120.000

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  120.000     3.05  2354.95  2354.95      .00  2355.99     1.05    10.98      .18  2353.20
    318.      10.     303.       5.       3.     36.       2.       1.       1.   2353.40
     .02     3.28     8.38     2.82     .050     .040     .050     .000  2351.90  9990.58
  .016809     690.     690.     690.       11       14        0      .00    21.26 10011.84


*SECNO 210.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  210.000     3.56  2373.46  2373.46      .00  2374.49     1.04     8.69      .00  2372.80
    318.       1.     317.       0.       0.     39.       0.       1.       1.   2372.70
     .04     1.78     8.19     1.67     .050     .040     .050     .000  2369.90  9989.83
  .019548     480.     480.     480.       15       11        0      .00    20.46 10010.29


*SECNO 310.000

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  310.000     1.66  2392.46  2392.46      .00  2392.97      .52    13.84      .05  2391.50
    318.       4.     313.       1.       1.     54.       0.       2.       1.   2392.10
     .07     3.35     5.79     1.78     .050     .050     .050     .000  2390.80  9991.01
  .036668     530.     530.     530.        3       14        0      .00    56.95 10047.96
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SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     BANK ELEV
Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA     LEFT/RIGHT
TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


*SECNO 380.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  380.000     2.95  2404.45  2404.45      .00  2405.35      .90      8.46      .11  2403.80
     318.       4.     284.     30.       2.     36.       7.        2.       2.   2401.60
      .08     1.76     7.92     4.29     .050     .040     .050      .000  2401.50  9988.91
  .015761     380.     370.     320.        5       14        0       .00    31.92 10020.83


*SECNO 450.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  450.000     2.88  2416.48  2416.48      .00  2417.20      .72      5.49      .02  2414.90
     318.       5.     280.     33.       2.     39.      12.        3.       2.   2414.90
      .09     2.67     7.18     2.74     .050     .040     .050      .000  2413.60  9988.87
  .013973     370.     370.     370.       12        8        0       .00    42.08 10031.14


*SECNO 520.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
        QT VALUES ARE 69% OF SUBWTRSHD F2D
  520.000     2.34  2432.74  2432.74      .00  2433.41      .67      6.14      .01  2432.00
     219.       2.     217.      0.       1.     33.       0.        3.       2.   2432.80
      .11     2.17     6.58      .00     .050     .040     .000      .000  2430.40  9988.46
  .021895     370.     370.     370.       20       19        0       .00    26.85 10015.31


*SECNO 580.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  580.000     2.40  2442.70  2442.70      .00  2443.53      .84      6.21      .05  2441.40
     219.       4.     203.     12.       1.     27.       4.        3.       2.   2441.10
      .12     2.66     7.57     3.26     .050     .040     .050      .000  2440.30  9991.65
  .017475     320.     320.     270.        5        8        0       .00    20.74 10012.39


*SECNO 690.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
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SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     BANK ELEV
  Q       QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA     LEFT/RIGHT
  TIME    VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
  SLOPE   XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  690.000     3.17  2470.37  2470.37      .00  2471.18      .81     10.31      .00  2469.60
     219.       3.     212.       5.       1.      29.       2.        4.       3.   2469.10
      .14     2.09      7.35     2.75    .050     .040     .050      .000  2467.20  9987.68
  .018149     530.     580.     580.       20       11        0       .00    21.70 10009.38


*SECNO 800.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  800.000     2.28  2492.88  2492.88      .00  2493.56      .68     11.57      .01  2493.00
     219.       0.     219.       0.       0.      33.       0.        4.       3.   2493.70
      .17      .00      6.61      .00    .000     .040     .000      .000  2490.60  9989.79
  .022012     580.     580.     580.        3       19        0       .00    24.73 10014.52


*SECNO 890.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  890.000     2.36  2514.56  2514.56      .00  2515.21      .65     10.65      .00  2514.20
     219.       0.     219.       0.       0.      34.       0.        4.       3.   2514.00
      .19     1.34      6.47      .04    .050     .040     .050      .000  2512.20  9983.18
  .022364     420.     480.     540.        9        8        0       .00    27.47 10010.65


*SECNO 980.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
        QT VALUES ARE 42% OF SUBWTRSHD F2D
  980.000     1.69  2540.19  2540.19      .00  2540.83      .64      9.95      .00  2538.50
     133.       14.     100.      19.       4.      14.       5.        5.       4.   2538.50
      .21     3.46      7.13     3.51    .050     .040     .050      .000  2538.50  9995.16
  .018336     520.     480.     460.       20       19        0       .00    19.51 10014.66


*SECNO 1090.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1090.000     1.70  2561.80  2561.80      .00  2562.25      .45     12.18      .02  2560.90
     133.       3.     130.       0.       1.      24.       0.        5.       4.   2562.10
      .24     2.61      5.43      .00    .050     .040     .000      .000  2560.10  9980.49
  .024296     580.     580.     580.        3        5        0       .00    28.59 10009.08
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     FLOOD CONTROL DISTRICT OF MARICOPA CO. - LA027815.H2
T2   500-YEAR FLOOD FREQUENCY MODEL
T3   WILLOW SPRINGS, TRIB. 4   (WST4.DAT)

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

              5                         .015                                2331.24

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

    15                 -1
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 ECNO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*PROF 4

CCHV=     .100 CEHV=     .300
*SECNO 2930.000
        ******REVISED STREAMFLOWS FROM CVCRK43R.OUT*******
        COMMON SECTION IS SEC. 2930 OF WILLOW SPR. TRIB.3
        SEC. 000 = SEC. 2.94 OF WILLOW SPR. TRIB. 3
        STRT DETERMINED BY SLOPE/AREA METHOD
        QT VALUES ARE FROM HEC-1 SUBWTRSHD 'F2D
 2930.000     2.24  2331.24      .00  2331.24  2331.74      .50      .00      .00  2332.10
    402.       0.     402.       0.       0.      71.       0.       0.       0.   2331.80
     .00      .00     5.66      .00     .000     .040     .000     .000  2329.00  9987.82
  .014837       0.       0.       0.        0        0        0      .00    50.49 10038.31


*SECNO 120.000

3301 HV CHANGED MORE THAN HVINS

 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  120.000     3.42  2355.32  2355.32      .00  2356.51     1.19    10.59      .21  2353.20
    402.       17.     377.       8.       5.      42.       3.       1.       1.   2353.40
     .02     3.63     8.99     3.17     .050     .040     .050     .000  2351.90  9989.81
  .015872     690.     690.     690.       13       14        0      .00    22.55 10012.36


*SECNO 210.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  210.000     3.94  2373.84  2373.84      .00  2375.00     1.17     8.02      .00  2372.80
    402.        2.     399.       1.       1.      46.       1.       1.       1.   2372.70
     .04     2.29     8.70     2.09     .050     .040     .050     .000  2369.90  9989.21
  .017606     480.     480.     480.       20        8        0      .00    21.44 10010.64


*SECNO 310.000

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
310.000	1.83	2392.63	2392.63	.00	2393.22	.59	12.66	.06	2391.50
402.	7.	394.	2.	2.	63.	1.	2.	1.	2392.10
.06	3.63	6.22	2.25	.050	.050	.050	.000	2390.80	9990.50
.034252	530.	530.	530.	3	14	0	.00	58.33	10048.83

*SECNO 380.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

380.000	3.41	2404.91	2404.91	.00	2405.75	.83	6.97	.07	2403.80
402.	25.	338.	39.	11.	43.	9.	3.	2.	2401.60
.08	2.23	7.83	4.14	.050	.040	.050	.000	2401.50	9977.38
.012000	380.	370.	320.	4	14	0	.00	44.24	10021.63

*SECNO 450.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

0.000	3.19	2416.79	2416.79	.00	2417.54	.75	4.56	.01	2414.90
402.	8.	335.	59.	3.	45.	20.	3.	2.	2414.90
.09	2.86	7.49	3.03	.050	.040	.050	.000	2413.60	9988.39
.012681	370.	370.	370.	20	12	0	.00	49.16	10037.55

*SECNO 520.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
QT VALUES ARE 69% OF SUBWTRSHD F2D

520.000	2.61	2433.01	2433.01	.00	2433.73	.72	5.48	.00	2432.00
277.	3.	273.	1.	1.	40.	1.	4.	2.	2432.80
.11	2.48	6.87	.91	.050	.040	.050	.000	2430.40	9987.77
.018990	370.	370.	370.	20	14	0	.00	34.87	10022.63

*SECNO 580.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

580.000	2.70	2443.00	2443.00	.00	2443.95	.95	5.64	.07	2441.40
277.	6.	252.	19.	2.	31.	5.	4.	3.	2441.10
.12	2.97	8.12	3.56	.050	.040	.050	.000	2440.30	9991.15
.016576	320.	320.	270.	10	8	0	.00	22.12	10013.27

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SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     BANK ELEV
Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA     LEFT/RIGHT
TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


*SECNO 690.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  690.000     3.47  2470.67  2470.67      .00  2471.58      .91      9.72      .00  2469.60
     277.       7.     262.       8.       3.      33.       3.       5.       3.   2469.10
      .14     2.52      7.86     3.07     .050     .040     .050     .000  2467.20  9986.23
  .016998     530.     580.     580.       20       11        0      .00    23.76 10009.99


*SECNO 800.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  800.000     2.52  2493.12  2493.12      .00  2493.89      .77     10.99      .01  2493.00
     277.       0.     277.       0.       0.      39.       0.       5.       3.   2493.70
      .16      .04      7.03      .00     .050     .040     .000     .000  2490.60  9988.71
  .021263     580.     580.     580.        4       19        0      .00    26.76 10015.47


NO 890.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  890.000     2.58  2514.78  2514.78      .00  2515.53      .76     10.19      .00  2514.20
     277.       1.     276.       0.       0.      40.       0.       5.       4.   2514.00
      .18     1.78      6.99     1.26     .050     .040     .050     .000  2512.20  9982.69
  .021201     420.     480.     540.       10        8        0      .00    28.05 10010.75


*SECNO 980.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
        QT VALUES ARE 42% OF SUBWTRSHD F2D
  980.000     1.93  2540.43  2540.43      .00  2541.14      .71      9.42      .00  2538.50
     168.      20.     122.      26.       5.      16.       7.       6.       4.   2538.50
      .20     3.68      7.59     3.74     .050     .040     .050     .000  2538.50  9994.45
  .017322     520.     480.     460.       20       16        0      .00    21.14 10015.59


*SECNO 1090.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1090.000     1.86  2561.96  2561.96      .00  2562.47      .50     11.46      .02  2560.90
     168.       4.     164.       0.       2.      28.       0.       6.       4.   2562.10
      .23     2.83      5.76      .00     .050     .040     .000     .000  2560.10  9980.02
  2730        580.     580.     580.        4        8        0      .00    29.96 10009.98
```

THIS RUN EXECUTED 3/27/90 7:39: 4

****
HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989

ERROR CORR - 01,02,03
MODIFICATION -
****

NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

WILLOW SPRINGS, TRIB 4

SUMMARY PRINTOUT

	SECNO	CWSEL	Q	DEPTH	VLOB	VCH	VROB	QLOB	QCH	QROB	TOPWID	10*KS	DIFWSX
	2930.000	2330.57	180.00	1.57	.00	4.46	.00	.00	180.00	.00	41.08	148.58	.00
	2930.000	2330.87	271.00	1.87	.00	5.08	.00	.00	271.00	.00	45.29	151.71	.00
	2930.000	2331.01	318.00	2.01	.00	5.32	.00	.00	318.00	.00	47.26	150.90	.00
	2930.000	2331.24	402.00	2.24	.00	5.66	.00	.00	402.00	.00	50.49	148.37	.00
*	120.000	2354.22	180.00	2.32	2.48	7.07	2.00	2.69	176.37	.94	18.76	196.12	23.65
*	120.000	2354.72	271.00	2.82	3.05	7.99	2.59	7.27	260.62	3.11	20.47	175.58	23.85
*	120.000	2354.95	318.00	3.05	3.28	8.38	2.82	10.35	302.97	4.67	21.26	168.09	23.94
*	120.000	2355.32	402.00	3.42	3.63	8.99	3.17	16.87	377.04	8.09	22.55	158.72	24.08
*	210.000	2372.79	180.00	2.89	.00	6.87	.05	.00	180.00	.00	18.73	231.14	18.56
*	210.000	2373.24	271.00	3.34	1.40	7.81	1.37	.22	270.60	.18	19.91	206.22	18.52
*	210.000	2373.46	318.00	3.56	1.78	8.19	1.67	.62	316.94	.44	20.46	195.48	18.51
*	210.000	2373.84	402.00	3.94	2.29	8.70	2.09	2.01	398.75	1.24	21.44	176.06	18.52
*	310.000	2392.13	180.00	1.33	2.73	4.83	.06	1.58	178.42	.00	54.39	422.41	19.34
*	310.000	2392.35	271.00	1.55	3.17	5.51	1.44	3.35	267.43	.22	56.12	383.29	19.11
*	310.000	2392.46	318.00	1.66	3.35	5.79	1.78	4.47	312.97	.56	56.95	366.68	19.00
*	310.000	2392.63	402.00	1.83	3.63	6.22	2.25	6.79	393.64	1.57	58.33	342.52	18.79
*	380.000	2403.68	180.00	2.18	.00	7.03	3.99	.00	165.13	14.86	18.98	208.33	11.55
*	380.000	2404.15	271.00	2.65	1.28	7.91	4.38	.79	245.57	24.65	23.77	189.95	11.80
*	380.000	2404.45	318.00	2.95	1.76	7.92	4.29	4.30	283.55	30.15	31.92	157.61	12.00
*	380.000	2404.91	402.00	3.41	2.23	7.83	4.14	24.83	337.88	39.29	44.24	120.00	12.28
*	450.000	2415.80	180.00	2.20	2.12	6.42	2.37	1.34	170.62	8.05	27.30	185.93	12.13
*	450.000	2416.22	271.00	2.62	2.59	7.21	2.85	3.47	246.57	20.96	33.87	167.88	12.06
*	450.000	2416.48	318.00	2.88	2.67	7.18	2.74	5.13	280.24	32.63	42.08	139.73	12.03
*	450.000	2416.79	402.00	3.19	2.86	7.49	3.03	7.87	334.94	59.19	49.16	126.81	11.87
*	520.000	2432.27	124.00	1.87	.05	5.69	.00	.00	123.99	.00	23.12	247.82	16.47
*	520.000	2432.60	186.00	2.20	1.90	6.27	.00	.89	185.11	.00	25.71	222.40	16.38
*	520.000	2432.74	219.00	2.34	2.17	6.58	.00	1.57	217.43	.00	26.85	218.95	16.27
*	520.000	2433.01	277.00	2.61	2.48	6.87	.91	3.29	273.03	.67	34.87	189.90	16.22

	SECNO	CWSEL	Q	DEPTH	VLOB	VCH	VROB	QLOB	QCH	QROB	TOPWID	10*KS	DIFWSX
*	580.000	2442.12	124.00	1.82	1.91	6.36	2.57	.81	119.29	3.90	18.07	199.33	9.85
*	580.000	2442.51	186.00	2.21	2.44	7.20	3.06	2.50	174.57	8.93	19.88	181.17	9.91
*	580.000	2442.70	219.00	2.40	2.66	7.57	3.26	3.71	203.08	12.21	20.74	174.75	9.95
*	580.000	2443.00	277.00	2.70	2.97	8.12	3.56	6.30	251.85	18.85	22.12	165.76	9.99
*	690.000	2469.76	124.00	2.56	.04	6.35	2.00	.00	123.11	.88	17.51	228.92	27.64
*	690.000	2470.18	186.00	2.98	1.77	7.02	2.53	1.44	181.56	3.00	20.40	190.69	27.67
*	690.000	2470.37	219.00	3.17	2.09	7.35	2.75	2.98	211.52	4.50	21.70	181.49	27.67
*	690.000	2470.67	277.00	3.47	2.52	7.86	3.07	6.95	262.38	7.68	23.76	169.98	27.67
*	800.000	2492.36	124.00	1.76	.00	5.82	.00	.00	124.00	.00	20.66	241.24	22.60
*	800.000	2492.71	186.00	2.11	.00	6.39	.00	.00	186.00	.00	23.43	227.07	22.53
*	800.000	2492.88	219.00	2.28	.00	6.61	.00	.00	219.00	.00	24.73	220.12	22.51
*	800.000	2493.12	277.00	2.52	.04	7.03	.00	.00	277.00	.00	26.76	212.63	22.45
*	890.000	2514.15	124.00	1.95	.00	5.37	.05	.00	124.00	.00	26.14	252.20	21.80
*	890.000	2514.43	186.00	2.23	.05	6.15	.05	.00	185.99	.00	27.10	234.59	21.72
*	890.000	2514.56	219.00	2.36	1.34	6.47	.04	.20	218.80	.00	27.47	223.64	21.68
*	890.000	2514.78	277.00	2.58	1.78	6.99	1.26	.67	276.16	.17	28.05	212.01	21.65
*	980.000	2539.71	75.00	1.21	2.93	6.05	2.98	6.14	60.66	8.20	16.32	206.14	25.55
*	980.000	2540.04	113.00	1.54	3.30	6.80	3.35	11.20	86.86	14.94	18.51	188.91	25.61
*	980.000	2540.19	133.00	1.69	3.46	7.13	3.51	14.15	99.96	18.88	19.51	183.36	25.63
	980.000	2540.43	168.00	1.93	3.68	7.59	3.74	19.76	121.87	26.37	21.14	173.22	25.66
*	1090.000	2561.48	75.00	1.38	2.09	4.65	.00	.98	74.02	.00	26.00	279.38	21.77
*	1090.000	2561.69	113.00	1.59	2.46	5.23	.00	2.16	110.84	.00	27.72	256.64	21.65
*	1090.000	2561.80	133.00	1.70	2.61	5.43	.00	2.94	130.06	.00	28.59	242.96	21.61
*	1090.000	2561.96	168.00	1.86	2.83	5.76	.00	4.49	163.51	.00	29.96	227.30	21.53

LOW SPRINGS, TRIB 4

SUMMARY PRINTOUT TABLE 150

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
	2930.000	.00	.00	.00	2329.00	180.00	2330.57	.00	2330.88	148.58	4.46	40.34	14.77
	2930.000	.00	.00	.00	2329.00	271.00	2330.87	.00	2331.27	151.71	5.08	53.30	22.00
	2930.000	.00	.00	.00	2329.00	318.00	2331.01	.00	2331.45	150.90	5.32	59.77	25.89
	2930.000	.00	.00	.00	2329.00	402.00	2331.24	.00	2331.74	148.37	5.66	71.01	33.00
*	120.000	690.00	.00	.00	2351.90	180.00	2354.22	2354.22	2354.98	196.12	7.07	26.51	12.85
*	120.000	690.00	.00	.00	2351.90	271.00	2354.72	2354.72	2355.68	175.58	7.99	36.19	20.45
*	120.000	690.00	.00	.00	2351.90	318.00	2354.95	2354.95	2355.99	168.09	8.38	40.97	24.53
*	120.000	690.00	.00	.00	2351.90	402.00	2355.32	2355.32	2356.51	158.72	8.99	49.15	31.91
*	210.000	480.00	.00	.00	2369.90	180.00	2372.79	2372.79	2373.52	231.14	6.87	26.19	11.84
*	210.000	480.00	.00	.00	2369.90	271.00	2373.24	2373.24	2374.18	206.22	7.81	34.94	18.87
*	210.000	480.00	.00	.00	2369.90	318.00	2373.46	2373.46	2374.49	195.48	8.19	39.33	22.74
*	210.000	480.00	.00	.00	2369.90	402.00	2373.84	2373.84	2375.00	176.06	8.70	47.32	30.30
*	310.000	530.00	.00	.00	2390.80	180.00	2392.13	2392.13	2392.49	422.41	4.83	37.54	8.76
*	310.000	530.00	.00	.00	2390.80	271.00	2392.35	2392.35	2392.82	383.29	5.51	49.72	13.84
*	310.000	530.00	.00	.00	2390.80	318.00	2392.46	2392.46	2392.97	366.68	5.79	55.67	16.61
	310.000	530.00	.00	.00	2390.80	402.00	2392.63	2392.63	2393.22	342.52	6.22	65.85	21.72
*	380.000	370.00	.00	.00	2401.50	180.00	2403.68	2403.68	2404.40	208.33	7.03	27.22	12.47
*	380.000	370.00	.00	.00	2401.50	271.00	2404.15	2404.15	2405.06	189.95	7.91	37.29	19.66
*	380.000	370.00	.00	.00	2401.50	318.00	2404.45	2404.45	2405.35	157.61	7.92	45.26	25.33
*	380.000	370.00	.00	.00	2401.50	402.00	2404.91	2404.91	2405.75	120.00	7.83	63.80	36.70
*	450.000	370.00	.00	.00	2413.60	180.00	2415.80	2415.80	2416.41	185.93	6.42	30.61	13.20
*	450.000	370.00	.00	.00	2413.60	271.00	2416.22	2416.22	2416.96	167.88	7.21	42.88	20.92
*	450.000	370.00	.00	.00	2413.60	318.00	2416.48	2416.48	2417.20	139.73	7.18	52.83	26.90
*	450.000	370.00	.00	.00	2413.60	402.00	2416.79	2416.79	2417.54	126.81	7.49	66.96	35.70
*	520.000	370.00	.00	.00	2430.40	124.00	2432.27	2432.27	2432.77	247.82	5.69	21.89	7.88
*	520.000	370.00	.00	.00	2430.40	186.00	2432.60	2432.60	2433.21	222.40	6.27	29.97	12.47
*	520.000	370.00	.00	.00	2430.40	219.00	2432.74	2432.74	2433.41	218.95	6.58	33.78	14.80
*	520.000	370.00	.00	.00	2430.40	277.00	2433.01	2433.01	2433.73	189.90	6.87	41.80	20.10
*	580.000	320.00	.00	.00	2440.30	124.00	2442.12	2442.12	2442.72	199.33	6.36	20.69	8.78
*	580.000	320.00	.00	.00	2440.30	186.00	2442.51	2442.51	2443.27	181.17	7.20	28.19	13.82
*	580.000	320.00	.00	.00	2440.30	219.00	2442.70	2442.70	2443.53	174.75	7.57	31.98	16.57
*	580.000	320.00	.00	.00	2440.30	277.00	2443.00	2443.00	2443.95	165.76	8.12	38.44	21.51
*	690.000	580.00	.00	.00	2467.20	124.00	2469.76	2469.76	2470.38	228.92	6.35	19.90	8.20
*	690.000	580.00	.00	.00	2467.20	186.00	2470.18	2470.18	2470.93	190.69	7.02	27.86	13.47
*	690.000	580.00	.00	.00	2467.20	219.00	2470.37	2470.37	2471.18	181.49	7.35	31.84	16.26
*	690.000	580.00	.00	.00	2467.20	277.00	2470.67	2470.67	2471.58	169.98	7.86	38.66	21.25

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
*	800.000	580.00	.00	.00	2490.60	124.00	2492.36	2492.36	2492.88	241.24	5.82	21.30	7.98
*	800.000	580.00	.00	.00	2490.60	186.00	2492.71	2492.71	2493.34	227.07	6.39	29.11	12.34
*	800.000	580.00	.00	.00	2490.60	219.00	2492.88	2492.88	2493.56	220.12	6.61	33.12	14.76
*	800.000	580.00	.00	.00	2490.60	277.00	2493.12	2493.12	2493.89	212.63	7.03	39.46	19.00
*	890.000	480.00	.00	.00	2512.20	124.00	2514.15	2514.15	2514.60	252.20	5.37	23.09	7.81
*	890.000	480.00	.00	.00	2512.20	186.00	2514.43	2514.43	2515.01	234.59	6.15	30.34	12.14
*	890.000	480.00	.00	.00	2512.20	219.00	2514.56	2514.56	2515.21	223.64	6.47	34.04	14.64
*	890.000	480.00	.00	.00	2512.20	277.00	2514.78	2514.78	2515.53	212.01	6.99	40.03	19.02
*	980.000	480.00	.00	.00	2538.50	75.00	2539.71	2539.71	2540.19	206.14	6.05	14.87	5.22
*	980.000	480.00	.00	.00	2538.50	113.00	2540.04	2540.04	2540.63	188.91	6.80	20.62	8.22
*	980.000	480.00	.00	.00	2538.50	133.00	2540.19	2540.19	2540.83	183.36	7.13	23.48	9.82
*	980.000	480.00	.00	.00	2538.50	168.00	2540.43	2540.43	2541.14	173.22	7.59	28.47	12.76
*	1090.000	580.00	.00	.00	2560.10	75.00	2561.48	2561.48	2561.81	279.38	4.65	16.40	4.49
*	1090.000	580.00	.00	.00	2560.10	113.00	2561.69	2561.69	2562.11	256.64	5.23	22.07	7.05
*	1090.000	580.00	.00	.00	2560.10	133.00	2561.80	2561.80	2562.25	242.96	5.43	25.06	8.53
*	1090.000	580.00	.00	.00	2560.10	168.00	2561.96	2561.96	2562.47	227.30	5.76	29.98	11.14

LLOW SPRINGS, TRIB 4

SUMMARY PRINTOUT TABLE 150

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	2930.000	180.00	2330.57	.00	.00	.00	41.08	.00
	2930.000	271.00	2330.87	.30	.00	.00	45.29	.00
	2930.000	318.00	2331.01	.14	.00	.00	47.26	.00
	2930.000	402.00	2331.24	.23	.00	.00	50.49	.00
*	120.000	180.00	2354.22	.00	23.65	.00	18.76	690.00
*	120.000	271.00	2354.72	.49	23.85	.00	20.47	690.00
*	120.000	318.00	2354.95	.23	23.94	.00	21.26	690.00
*	120.000	402.00	2355.32	.37	24.08	.00	22.55	690.00
*	210.000	180.00	2372.79	.00	18.56	.00	18.73	480.00
*	210.000	271.00	2373.24	.45	18.52	.00	19.91	480.00
*	210.000	318.00	2373.46	.22	18.51	.00	20.46	480.00
*	210.000	402.00	2373.84	.38	18.52	.00	21.44	480.00
*	310.000	180.00	2392.13	.00	19.34	.00	54.39	530.00
*	310.000	271.00	2392.35	.22	19.11	.00	56.12	530.00
*	310.000	318.00	2392.46	.11	19.00	.00	56.95	530.00
	310.000	402.00	2392.63	.18	18.79	.00	58.33	530.00
*	380.000	180.00	2403.68	.00	11.55	.00	18.98	370.00
*	380.000	271.00	2404.15	.48	11.80	.00	23.77	370.00
*	380.000	318.00	2404.45	.30	12.00	.00	31.92	370.00
*	380.000	402.00	2404.91	.46	12.28	.00	44.24	370.00
*	450.000	180.00	2415.80	.00	12.13	.00	27.30	370.00
*	450.000	271.00	2416.22	.41	12.06	.00	33.87	370.00
*	450.000	318.00	2416.48	.26	12.03	.00	42.08	370.00
*	450.000	402.00	2416.79	.31	11.87	.00	49.16	370.00
*	520.000	124.00	2432.27	.00	16.47	.00	23.12	370.00
*	520.000	186.00	2432.60	.33	16.38	.00	25.71	370.00
*	520.000	219.00	2432.74	.14	16.27	.00	26.85	370.00
*	520.000	277.00	2433.01	.27	16.22	.00	34.87	370.00
*	580.000	124.00	2442.12	.00	9.85	.00	18.07	320.00
*	580.000	186.00	2442.51	.40	9.91	.00	19.88	320.00
*	580.000	219.00	2442.70	.19	9.95	.00	20.74	320.00
*	580.000	277.00	2443.00	.30	9.99	.00	22.12	320.00
*	690.000	124.00	2469.76	.00	27.64	.00	17.51	580.00
*	690.000	186.00	2470.18	.42	27.67	.00	20.40	580.00
*	690.000	219.00	2470.37	.19	27.67	.00	21.70	580.00
*	690.000	277.00	2470.67	.30	27.67	.00	23.76	580.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	800.000	124.00	2492.36	.00	22.60	.00	20.66	580.00
*	800.000	186.00	2492.71	.35	22.53	.00	23.43	580.00
*	800.000	219.00	2492.88	.17	22.51	.00	24.73	580.00
*	800.000	277.00	2493.12	.25	22.45	.00	26.76	580.00
*	890.000	124.00	2514.15	.00	21.80	.00	26.14	480.00
*	890.000	186.00	2514.43	.27	21.72	.00	27.10	480.00
*	890.000	219.00	2514.56	.14	21.68	.00	27.47	480.00
*	890.000	277.00	2514.78	.22	21.65	.00	28.05	480.00
*	980.000	75.00	2539.71	.00	25.55	.00	16.32	480.00
*	980.000	113.00	2540.04	.33	25.61	.00	18.51	480.00
*	980.000	133.00	2540.19	.15	25.63	.00	19.51	480.00
*	980.000	168.00	2540.43	.25	25.66	.00	21.14	480.00
*	1090.000	75.00	2561.48	.00	21.77	.00	26.00	580.00
*	1090.000	113.00	2561.69	.21	21.65	.00	27.72	580.00
*	1090.000	133.00	2561.80	.11	21.61	.00	28.59	580.00
*	1090.000	168.00	2561.96	.17	21.53	.00	29.96	580.00

SUMMARY OF ERRORS AND SPECIAL NOTES

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CAUTION SECNO=    120.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
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CAUTION SECNO=    210.000  PROFILE=  4  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    210.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

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CAUTION SECNO=   1090.000  PROFILE=  4  MINIMUM SPECIFIC ENERGY
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1*******************************************************
 *  WATER SURFACE PROFILES                             *
 *  VERSION OF SEPTEMBER 1988                          *
 *  ERROR: 01,02,03                                    *
 *  UPDATED:  SEPTEMBER 1989                           *
 *  RUN DATE     3/11/90    TIME    14:48:13           *
 *******************************************************
```

```
****************************************
* U.S. ARMY CORPS OF ENGINEERS         *
* THE HYDROLOGIC ENGINEERING CENTER    *
* 609 SECOND STREET, SUITE D           *
* DAVIS, CALIFORNIA 95616-4687         *
*          (916) 756-1104              *
****************************************
```

WST4.MCX (3-11-90 2:48P .MCE)
REVISED PER MCFCD COMMENTS (3/6 MEMO)
COPY TO JAN FARMER F/E

```
X     X  XXXXXXX   XXXXX             XXXXX
X     X  X       X     X           X     X
X     X  X       X                       X
XXXXXXX  XXXX    X         XXXXX    XXXXX
X     X  X       X                 X
X     X  X       X     X           X
X     X  XXXXXXX   XXXXX            XXXXXXX
```

END OF BANNER

1

3/11/90 14:48:13 PAGE 1

THIS RUN EXECUTED 3/11/90 14:48:13

```
*************************************************
LC2 RELEASE DATED SEP 88 UPDATED SEPT 1989

  ERROR CORR -  01,02,03
  MODIFICATION -
*************************************************
```

T1 FLOOD CONTROL DISTRICT OF MARICOPA CO. - LA027815.H2
T2 100-YEAR FLOOD FREQUENCY MODEL (NATURAL CONDITIONS)
T3 WILLOW SPR. TRIB 4 (WST4.MCE)

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
		2							2331.01	

J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	1		-1							

J3 VARIABLE CODES FOR SUMMARY PRINTOUT

38	43	26	8	42	39	1	34	4	53
21	22	54	0	38	43	1	50	51	27
21	22	28	5	3	61	200			

QT	2	318	318				
NC	.05	.05	.04	.1	.3		
ET			9.1			9991.0	10035.0

THIS ENCROACHMENT MODEL IS BASED ON AN HEC-2 MODEL OF NATURAL
CONDITIONS. REFER TO FILE WST4.OUT (CH2M HILL, 1990)

```
      2930        15    9980.8   10041.6
    2349.2    9930.5    2346.0    9947.3    2335.6    9971.6    2332.1    9980.8    2330.3    9995.5
GR  2329.5   10000.0    2329.0   10015.4    2330.2   10032.2    2331.8   10041.6    2333.8   10045.5
GR  2339.4   10070.1    2340.2   10095.0    2342.2   10115.4    2345.8   10140.2    2348.7   10149.1

ET                        4.1    9994.2   10009.7
X1     120        16    9994.2   10009.7     690     690     690
GR  2374.9    9915.2    2361.8    9945.7    2358.9    9957.1    2358.2    9974.9    2357.5    9979.4
GR  2356.0    9988.4    2353.2    9994.2    2351.9   10000.0    2353.4   10009.7    2356.5   10014.0
GR  2357.6   10020.9    2361.5   10048.5    2366.3   10066.6    2374.0   10083.7    2378.9   10100.8
GR  2380.7   10110.4

ET                        4.1    9990.9   10009.6
X1     210        13    9990.9   10009.6     480     480     480
GR  2395.1    9950.3    2388.1    9970.1    2378.5    9981.6    2372.8    9990.9    2371.3    9996.4
GR  2369.9   10000.0    2372.7   10009.6    2377.6   10014.1    2384.6   10016.5    2390.2   10031.0
GR  2392.4   10034.9    2395.3   10057.7    2396.1   10061.8
1
    3/11/90     14:48:13                                                                          PAGE    2


NC     .05       .05       .05
ET                        4.1    9993.8   10046.2
X1     310        13    9993.8   10046.2     530     530     530
GR  2411.6    9932.6    2399.5    9960.2    2395.8    9978.6    2396.3    9979.8    2391.5    9993.8
    2390.8   10000.0    2392.0   10015.8    2392.0   10019.2    2390.8   10029.8    2392.1   10046.2
    2395.5   10063.0    2400.5   10080.6    2408.2   10094.0

NC     .05       .05       .04
ET                        4.1   10000.0   10015.9
X1     380        11   10000.0   10015.9     380     320     370
GR  2423.2    9918.7    2413.6    9944.0    2406.4    9967.6    2404.7    9978.8    2404.3    9995.1
GR  2403.8   10000.0    2401.5   10009.4    2401.6   10015.9    2406.0   10023.5    2409.3   10027.1
GR  2423.0   10054.3

ET                        4.1    9991.3   10009.7
X1     450        16    9991.3   10009.7     370     370     370
GR  2433.8    9943.4    2432.8    9962.9    2431.2    9972.4    2426.4    9980.3    2418.4    9985.9
GR  2414.9    9991.3    2413.6    9998.9    2414.1   10000.0    2414.9   10009.7    2416.5   10023.0
GR  2416.1   10023.3    2417.2   10046.1    2418.8   10064.2    2423.8   10077.1    2429.2   10090.5
GR  2437.4   10102.1

QT       2       219       219
ET                        9.1                                                        9990.4   10014.0
X1     520        12    9990.4   10015.6     370     370     370
GR  2453.4    9946.0    2443.4    9967.1    2436.6    9978.4    2432.0    9990.4    2431.2    9997.2
GR  2430.4   10000.0    2431.5   10008.8    2432.8   10015.6    2433.6   10042.5    2436.6   10064.9
GR  2443.9   10083.5    2450.9   10094.2

ET                        4.1    9993.8   10007.7
X1     580        13    9993.8   10007.7     320     270     320
    2466.3    9905.4    2457.7    9935.1    2455.3    9956.7    2454.3    9965.4    2450.7    9972.8
GR  2444.9    9988.0    2441.4    9993.8    2440.3   10000.0    2441.1   10007.7    2444.1   10016.5
GR  2451.2   10025.3    2460.2   10049.7    2462.6   10054.4

ET                        4.1    9991.4   10006.8
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 X1      690        13     9991.4    10006.8       530       580       580
 GR   2487.9    9926.8     2485.2     9950.3    2480.4    9965.6    2472.7    9976.4    2469.6    9991.4
 GR   2468.4    9998.4     2467.2    10000.0    2469.1   10006.8    2474.8   10018.4    2478.7   10019.2
      2483.0   10030.7     2487.1    10046.9    2488.7   10053.3

 ET                          9.1                                                          9991.0   10013.0
 X1      800        14     9989.3    10017.7       580       580       580
 GR   2511.9    9919.1     2504.0     9949.0    2497.3    9973.1    2496.0    9974.9    2493.0    9989.3
 GR   2491.2    9996.4     2490.6    10000.0    2491.5   10009.2    2493.7   10017.7    2496.3   10022.1
 GR   2503.0   10043.9     2506.4    10058.2    2508.9   10080.8    2511.2   10092.9

 ET                          4.1     9984.0   10010.4
 X1      890        13     9984.0    10010.4       420       540       480
 GR   2532.1    9912.9     2529.7     9942.5    2524.1    9962.8    2518.4    9974.5    2514.2    9984.0
 GR   2513.0    9992.6     2512.2     9999.2    2513.0   10000.0    2514.0   10010.4    2517.6   10012.0
 GR   2523.1   10031.1     2529.6    10054.8    2533.3   10062.1
1
    3/11/90      14:48:13                                                                                PAGE    3


 QT        2       133        133
 ET                          4.1    10000.0   10008.3
 X1      980        12    10000.0    10008.3       520       460       480
 GR   2561.2    9931.4     2556.4     9950.8    2548.5    9973.6    2543.9    9980.6    2540.8    9993.4
 GR   2538.5   10000.0     2538.5    10008.3    2541.1   10018.1    2543.5   10019.7    2550.3   10042.2
 GR   2555.3   10064.8     2559.6    10074.4

                            9.1                                                          9983.0   10008.0
     1090        11     9983.0    10010.7       580       580       580
 .   2579.4    9852.4     2575.0     9904.3    2568.6    9947.4    2564.4    9973.2    2560.9    9983.0
 GR   2561.0    9995.4     2560.1    10000.0    2562.1   10010.7    2564.0   10015.6    2568.1   10038.1
 GR   2578.9   10063.0
1
    3/11/90      14:48:13                                                                                PAGE    4


    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS    BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN      SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID     ENDST


 *PROF 1
0

 CCHV=     .100 CEHV=     .300
 *SECNO 2930.000
          THIS ENCROACHMENT MODEL IS BASED ON AN HEC-2 MODEL OF NATURAL
          CONDITIONS.  REFER TO FILE WST4.OUT (CH2M HILL, 1990)

  2930.000     2.01  2331.01      .00  2331.01  2331.45      .44      .00      .00  2332.10
     318.        0.     318.       0.       0.      60.       0.       0.       0.  2331.80
      .00       .00     5.32      .00     .000     .040     .000     .000  2329.00  9989.70
   015090        0.       0.       0.        0        0        0      .00    47.26 10036.96

 *SECNO 120.000

 3301 HV CHANGED MORE THAN HVINS
```

```
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  120.000     3.05  2354.95  2354.95      .00  2355.99     1.05    10.98      .18  2353.20
    318.       10.     303.       5.       3.      36.       2.       1.       1.   2353.40
      .02     3.28     8.38     2.82     .050     .040     .050     .000  2351.90  9990.58
  .016809     690.     690.     690.       11       14        0      .00    21.26 10011.84
0
*SECNO 210.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  210.000     3.56  2373.46  2373.46      .00  2374.49     1.04     8.69      .00  2372.80
    318.        1.     317.       0.       0.      39.       0.       1.       1.   2372.70
      .04     1.78     8.19     1.67     .050     .040     .050     .000  2369.90  9989.83
  .019548     480.     480.     480.       15       11        0      .00    20.46 10010.29
0
*SECNO 310.000

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  310.000     1.66  2392.46  2392.46      .00  2392.97      .52    13.84      .05  2391.50
    318.        4.     313.       1.       1.      54.       0.       2.       1.   2392.10
      .07     3.35     5.79     1.78     .050     .050     .050     .000  2390.80  9991.01
  .036668     530.     530.     530.        3       14        0      .00    56.95 10047.96
0
1
   3/11/90      14:48:13                                                                    PAGE    5

   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*SECNO 380.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  380.000     2.95  2404.45  2404.45      .00  2405.35      .90     8.46      .11  2403.80
    318.        4.     284.      30.       2.      36.       7.       2.       2.   2401.60
      .08     1.76     7.92     4.29     .050     .040     .050     .000  2401.50  9988.91
  .015761     380.     370.     320.        5       14        0      .00    31.92 10020.83
0
*SECNO 450.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  450.000     2.88  2416.48  2416.48      .00  2417.20      .72     5.49      .02  2414.90
    318.        5.     280.      33.       2.      39.      12.       3.       2.   2414.90
      .09     2.67     7.18     2.74     .050     .040     .050     .000  2413.60  9988.87
  .013973     370.     370.     370.       12        8        0      .00    42.08 10031.14

   NO 520.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  520.000     2.34  2432.74  2432.74      .00  2433.41      .67     6.14      .01  2432.00
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     219.      2.     217.      0.      1.     33.      0.      3.      2.   2432.80
      .11     2.17    6.58     .00    .050    .040    .000    .000  2430.40  9988.46
  .021895    370.    370.    370.      20      19       0     .00    26.85 10015.31

 NO 580.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  580.000     2.40  2442.70  2442.70     .00  2443.53     .84    6.21     .05  2441.40
     219.      4.     203.      12.      1.     27.      4.      3.      2.   2441.10
      .12     2.66    7.57    3.26    .050    .040    .050    .000  2440.30  9991.65
  .017475    320.    320.    270.       5       8       0     .00    20.74 10012.39
0
*SECNO 690.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
1
   3/11/90      14:48:13                                                          PAGE    6


   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA     LEFT/RIGHT
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


3720 CRITICAL DEPTH ASSUMED
  690.000     3.17  2470.37  2470.37     .00  2471.18     .81   10.31     .00  2469.60
     219.      3.     212.       5.      1.     29.      2.      4.      3.   2469.10
      .14     2.09    7.35    2.75    .050    .040    .050    .000  2467.20  9987.68
  .018149    530.    580.    580.      20      11       0     .00    21.70 10009.38

*SECNO 800.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  800.000     2.28  2492.88  2492.88     .00  2493.56     .68   11.57     .01  2493.00
     219.      0.     219.       0.      0.     33.      0.      4.      3.   2493.70
      .17     .00    6.61     .00    .000    .040    .000    .000  2490.60  9989.79
  .022012    580.    580.    580.       3      19       0     .00    24.73 10014.52
0
*SECNO 890.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  890.000     2.36  2514.56  2514.56     .00  2515.21     .65   10.65     .00  2514.20
     219.      0.     219.       0.      0.     34.      0.      4.      3.   2514.00
      .19     1.34    6.47     .04    .050    .040    .050    .000  2512.20  9983.18
  .022364    420.    480.    540.       9       8       0     .00    27.47 10010.65
0
*SECNO 980.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  980.000     1.69  2540.19  2540.19     .00  2540.83     .64    9.95     .00  2538.50
     133.      14.     100.      19.      4.     14.      5.      5.      4.   2538.50
      .21     3.46    7.13    3.51    .050    .040    .050    .000  2538.50  9995.16
   018336    520.    480.    460.      20      19       0     .00    19.51 10014.66

*SECNO 1090.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1090.000     1.70  2561.80  2561.80     .00  2562.25     .45   12.18     .02  2560.90
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     133.      3.     130.      0.      1.     24.      0.      5.      4.   2562.10
      .24     2.61     5.43     .00    .050    .040    .000    .000  2560.10  9980.49
   .024296    580.     580.    580.       3       5       0     .00    28.59 10009.08
```



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T1       FLOOD CONTROL DISTRICT OF MARICOPA CO. - LA027815.H2
T2       100-YEAR FLOOD FREQUENCY MODEL (ENCROACHMENT CONDITIONS)
T3       WILLOW SPRINGS, TRIB. 4   (WST4.MCE)

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

                3                                                          2332.01

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

     15                 -1
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1


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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST

 *PROF 2
0

 CCHV=     .100 CEHV=     .300
 *SECNO 2930.000

 3470 ENCROACHMENT STATIONS=     9991.0   10035.0  TYPE=      1  TARGET=       44.000
         THIS ENCROACHMENT MODEL IS BASED ON AN HEC-2 MODEL OF NATURAL
         CONDITIONS.  REFER TO FILE WST4.OUT (CH2M HILL, 1990)

  2930.000     3.01  2332.01      .00  2331.01  2332.16      .15      .00      .00100000.00
     318.       0.     318.       0.       0.     103.       0.       0.       0. 100000.00
      .00      .00     3.08      .00     .000     .040     .000     .000  2329.00  9991.00
   .002378       0.       0.       0.        0        0        0      .00    44.00 10035.00
0
 *SECNO 120.000

 3301 HV CHANGED MORE THAN HVINS

 3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

    ENCROACHMENT STATIONS=     9994.2   10009.7  TYPE=      1  TARGET=       15.500
   120.000     3.07  2354.97  2354.97  2354.95  2356.15     1.18     3.76      .31  2353.20
     318.       0.     318.       0.       0.      37.       0.       1.       0. 100000.00
      .02      .00     8.71      .00     .000     .040     .000     .000  2351.90  9994.20
   .023135     690.     690.     690.       20        5        0      .00    15.50 10009.70
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0
 *SECNO 210.000
 7185 MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

 3470 ENCROACHMENT STATIONS=     9990.9   10009.6  TYPE=      1  TARGET=       18.699
   210.000     3.54  2373.44  2373.44  2373.46  2374.50     1.06    10.85      .01  2372.80
     318.       0.     318.       0.       0.      38.       0.       2.       1. 100000.00
       .04      .00     8.28      .00     .000     .040     .000     .000  2369.90  9990.90
   .022091     480.     480.     480.       12       11        0      .00    18.70 10009.60
0
1
    3/11/90      14:48:13                                                                    PAGE     9


    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS    BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


 *SECNO 310.000

 3301 HV CHANGED MORE THAN HVINS

 7185 MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

 3470 ENCROACHMENT STATIONS=     9993.8   10046.2  TYPE=      1  TARGET=       52.400
   310.000     1.66  2392.46  2392.46  2392.46  2392.99      .53    15.20      .05  2391.50
     318.       0.     318.       0.       0.      54.       0.       2.       1. 100000.00
       .06      .00     5.87      .00     .000     .050     .000     .000  2390.80  9993.80
   .038697     530.     530.     530.        2       14        0      .00    52.40 10046.20
0
 *SECNO 380.000

 3301 HV CHANGED MORE THAN HVINS

 7185 MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

 3470 ENCROACHMENT STATIONS=    10000.0   10015.9  TYPE=      1  TARGET=       15.900
   380.000     3.01  2404.51  2404.51  2404.45  2405.67     1.16    11.07      .19  2403.80
     318.       0.     318.       0.       0.      37.       0.       2.       1. 100000.00
       .08      .00     8.66      .00     .000     .040     .000     .000  2401.50 10000.00
   .023826     380.     370.     320.        5       14        0      .00    15.90 10015.90
0
 *SECNO 450.000
 7185 MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

 3470 ENCROACHMENT STATIONS=     9991.3   10009.7  TYPE=      1  TARGET=       18.400
   450.000     2.85  2416.45  2416.45  2416.48  2417.51     1.06     8.70      .01  2414.90
     318.       0.     318.       0.       0.      38.       0.       3.       2. 100000.00
       .09      .00     8.27      .00     .000     .040     .000     .000  2413.60  9991.30
   .023201     370.     370.     370.       10       11        0      .00    18.40 10009.70
0
 *SECNO 520.000
 3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
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 3720 CRITICAL DEPTH ASSUMED
1
     3/11/90       14:48:13                                                                              PAGE    10

     SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS    BANK ELEV
     Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA    LEFT/RIGHT
     TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN        SSTA
     SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID       ENDST



 3470 ENCROACHMENT STATIONS=      9990.4    10014.0  TYPE=       1  TARGET=        23.600
   520.000       2.32  2432.72  2432.72  2432.74  2433.43        .71       8.59        .04  2432.00
      219.         0.     219.       0.       0.       32.        0.         3.         2. 100000.00
       .10        .00     6.76      .00     .000      .040      .000       .000   2430.40   9990.40
   .023240       370.     370.     370.       20        15         0        .00     23.60  10014.00
0
 *SECNO 580.000
 7185 MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

 3470 ENCROACHMENT STATIONS=      9993.8    10007.7  TYPE=       1  TARGET=        13.900
   580.000       2.43  2442.73  2442.73  2442.70  2443.73       1.00       7.68        .09  2441.40
      219.         0.     219.       0.       0.       27.        0.         3.         2. 100000.00
       .11        .00     8.02      .00     .000      .040      .000       .000   2440.30   9993.80
   .024797       320.     320.     270.        5         8         0        .00     13.90  10007.70
0
 *SECNO 690.000
 [illegible] MINIMUM SPECIFIC ENERGY
 [illegible] CRITICAL DEPTH ASSUMED

 3470 ENCROACHMENT STATIONS=      9991.4    10006.8  TYPE=       1  TARGET=        15.399
   690.000       3.13  2470.33  2470.33  2470.37  2471.27        .93      14.18        .01  2469.60
      219.         0.     219.       0.       0.       28.        0.         4.         2. 100000.00
       .13        .00     7.75      .00     .000      .040      .000       .000   2467.20   9991.40
   .024111       530.     580.     580.       11        11         0        .00     15.40  10006.80
0
 *SECNO 800.000
 7185 MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

 3470 ENCROACHMENT STATIONS=      9991.0    10013.0  TYPE=       1  TARGET=        22.000
   800.000       2.24  2492.84  2492.84  2492.88  2493.57        .74      13.49        .02100000.00
      219.         0.     219.       0.       0.       32.        0.         4.         2. 100000.00
       .16        .00     6.90      .00     .000      .040      .000       .000   2490.60   9991.00
   .022464       580.     580.     580.        4        19         0        .00     22.00  10013.00
0
 *SECNO 890.000
 7185 MINIMUM SPECIFIC ENERGY
1
     3/11/90       14:48:13                                                                              PAGE    11

     SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS    BANK ELEV
                QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA    LEFT/RIGHT
     TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN        SSTA
     SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID       ENDST
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3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9984.0   10010.4  TYPE=      1  TARGET=       26.400
    90.000     2.35  2514.55  2514.55  2514.56  2515.21      .66    11.15      .01  2514.20
      219.       0.     219.       0.       0.      34.       0.       4.       3. 100000.00
       .18      .00     6.53      .00     .000     .040     .000     .000  2512.20  9984.00
   .024049     420.     480.     540.        9        8        0      .00    26.40 10010.40
0
 *SECNO 980.000
 3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

 3470 ENCROACHMENT STATIONS=    10000.0   10008.3  TYPE=      1  TARGET=        8.300
   980.000     2.00  2540.50  2540.50  2540.19  2541.50     1.00    12.71      .10  2538.50
      133.       0.     133.       0.       0.      17.       0.       5.       3. 100000.00
       .19      .00     8.03      .00     .000     .040     .000     .000  2538.50 10000.00
   .031395     520.     480.     460.       20       11        0      .00     8.30 10008.30
0
 *SECNO 1090.000

 3301 HV CHANGED MORE THAN HVINS

 7185 MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

 3470 ENCROACHMENT STATIONS=     9983.0   10008.0  TYPE=      1  TARGET=       25.000
  1090.000     1.69  2561.79  2561.79  2561.80  2562.28      .49    16.73      .05  2560.90
      133.       0.     133.       0.       0.      24.       0.       5.       3. 100000.00
       .22      .00     5.63      .00     .000     .040     .000     .000  2560.10  9983.00
   .26583     580.     580.     580.        4       15        0      .00    25.00 10008.00
0
1
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THIS RUN EXECUTED 3/11/90 14:48:28

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**************************************************
  HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989


  ERROR CORR -  01,02,03
  MODIFICATION -
**************************************************


NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST


 WILLOW SPR. TRIB 4

SUMMARY PRINTOUT
```

SECNO	Q	VCH	DEPTH	ELMIN	XLCH	CWSEL	.01K	TOPWID	SSTA	STCHL	STCHR	ENDST
2930.000	318.00	5.32	2.01	2329.00	.00	2331.01	25.89	47.26	9989.70	9980.80	10041.60	10036.96
2930.000	318.00	3.08	3.01	2329.00	.00	2332.01	65.21	44.00	9991.00	9980.80	10041.60	10035.00

*	120.000	318.00	8.38	3.05	2351.90	690.00	2354.95	24.53	21.26	9990.58	9994.20	10009.70	10011.84
*	120.000	318.00	8.71	3.07	2351.90	690.00	2354.97	20.91	15.50	9994.20	9994.20	10009.70	10009.70
	210.000	318.00	8.19	3.56	2369.90	480.00	2373.46	22.74	20.46	9989.83	9990.90	10009.60	10010.29
*	210.000	318.00	8.28	3.54	2369.90	480.00	2373.44	21.40	18.70	9990.90	9990.90	10009.60	10009.60
*	310.000	318.00	5.79	1.66	2390.80	530.00	2392.46	16.61	56.95	9991.01	9993.80	10046.20	10047.96
*	310.000	318.00	5.87	1.66	2390.80	530.00	2392.46	16.17	52.40	9993.80	9993.80	10046.20	10046.20
*	380.000	318.00	7.92	2.95	2401.50	370.00	2404.45	25.33	31.92	9988.91	10000.00	10015.90	10020.83
*	380.000	318.00	8.66	3.01	2401.50	370.00	2404.51	20.60	15.90	10000.00	10000.00	10015.90	10015.90
*	450.000	318.00	7.18	2.88	2413.60	370.00	2416.48	26.90	42.08	9988.87	9991.30	10009.70	10031.14
*	450.000	318.00	8.27	2.85	2413.60	370.00	2416.45	20.88	18.40	9991.30	9991.30	10009.70	10009.70
*	520.000	219.00	6.58	2.34	2430.40	370.00	2432.74	14.80	26.85	9988.46	9990.40	10015.60	10015.31
*	520.000	219.00	6.76	2.32	2430.40	370.00	2432.72	14.37	23.60	9990.40	9990.40	10015.60	10014.00
*	580.000	219.00	7.57	2.40	2440.30	320.00	2442.70	16.57	20.74	9991.65	9993.80	10007.70	10012.39
*	580.000	219.00	8.02	2.43	2440.30	320.00	2442.73	13.91	13.90	9993.80	9993.80	10007.70	10007.70
*	690.000	219.00	7.35	3.17	2467.20	580.00	2470.37	16.26	21.70	9987.68	9991.40	10006.80	10009.38
*	690.000	219.00	7.75	3.13	2467.20	580.00	2470.33	14.10	15.40	9991.40	9991.40	10006.80	10006.80
*	800.000	219.00	6.61	2.28	2490.60	580.00	2492.88	14.76	24.73	9989.79	9989.30	10017.70	10014.52
*	800.000	219.00	6.90	2.24	2490.60	580.00	2492.84	14.61	22.00	9991.00	9989.30	10017.70	10013.00
*	890.000	219.00	6.47	2.36	2512.20	480.00	2514.56	14.64	27.47	9983.18	9984.00	10010.40	10010.65
	890.000	219.00	6.53	2.35	2512.20	480.00	2514.55	14.12	26.40	9984.00	9984.00	10010.40	10010.40

1

	SECNO	Q	VCH	DEPTH	ELMIN	XLCH	CWSEL	.01K	TOPWID	SSTA	STCHL	STCHR	ENDST
*	980.000	133.00	7.13	1.69	2538.50	480.00	2540.19	9.82	19.51	9995.16	10000.00	10008.30	10014.66
*	980.000	133.00	8.03	2.00	2538.50	480.00	2540.50	7.51	8.30	10000.00	10000.00	10008.30	10008.30
*	1090.000	133.00	5.43	1.70	2560.10	580.00	2561.80	8.53	28.59	9980.49	9983.00	10010.70	10009.08
*	1090.000	133.00	5.63	1.69	2560.10	580.00	2561.79	8.16	25.00	9983.00	9983.00	10010.70	10008.00

1

WILLOW SPR. TRIB 4

SUMMARY PRINTOUT

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	STENCL	STCHL	STCHR	STENCR	10*KS	EG	DIFEG
	2930.000	318.00	2331.01	.00	.00	.00	9980.80	10041.60	.00	150.90	2331.45	.00
	2930.000	318.00	2332.01	1.00	.00	9991.00	9980.80	10041.60	10035.00	23.78	2332.16	.71
*	120.000	318.00	2354.95	.00	23.94	.00	9994.20	10009.70	.00	168.09	2355.99	.00
*	120.000	318.00	2354.97	.02	22.96	9994.20	9994.20	10009.70	10009.70	231.35	2356.15	.15

*	210.000	318.00	2373.46	.00	18.51	.00	9990.90	10009.60	.00	195.48	2374.49	.00
*	210.000	318.00	2373.44	-.02	18.47	9990.90	9990.90	10009.60	10009.60	220.91	2374.50	.01
	310.000	318.00	2392.46	.00	19.00	.00	9993.80	10046.20	.00	366.68	2392.97	.00
	310.000	318.00	2392.46	.00	19.02	9993.80	9993.80	10046.20	10046.20	386.97	2392.99	.02
*	380.000	318.00	2404.45	.00	12.00	.00	10000.00	10015.90	.00	157.61	2405.35	.00
*	380.000	318.00	2404.51	.06	12.05	10000.00	10000.00	10015.90	10015.90	238.26	2405.67	.33
*	450.000	318.00	2416.48	.00	12.03	.00	9991.30	10009.70	.00	139.73	2417.20	.00
*	450.000	318.00	2416.45	-.03	11.94	9991.30	9991.30	10009.70	10009.70	232.01	2417.51	.31
*	520.000	219.00	2432.74	.00	16.27	.00	9990.40	10015.60	.00	218.95	2433.41	.00
*	520.000	219.00	2432.72	-.02	16.28	9990.40	9990.40	10015.60	10014.00	232.40	2433.43	.02
*	580.000	219.00	2442.70	.00	9.95	.00	9993.80	10007.70	.00	174.75	2443.53	.00
*	580.000	219.00	2442.73	.03	10.01	9993.80	9993.80	10007.70	10007.70	247.97	2443.73	.20
*	690.000	219.00	2470.37	.00	27.67	.00	9991.40	10006.80	.00	181.49	2471.18	.00
*	690.000	219.00	2470.33	-.03	27.60	9991.40	9991.40	10006.80	10006.80	241.11	2471.27	.09
*	800.000	219.00	2492.88	.00	22.51	.00	9989.30	10017.70	.00	220.12	2493.56	.00
*	800.000	219.00	2492.84	-.04	22.50	9991.00	9989.30	10017.70	10013.00	224.64	2493.57	.02
*	890.000	219.00	2514.56	.00	21.68	.00	9984.00	10010.40	.00	223.64	2515.21	.00
*	890.000	219.00	2514.55	-.01	21.72	9984.00	9984.00	10010.40	10010.40	240.49	2515.21	.00
*	980.000	133.00	2540.19	.00	25.63	.00	10000.00	10008.30	.00	183.36	2540.83	.00
*	980.000	133.00	2540.50	.31	25.94	10000.00	10000.00	10008.30	10008.30	313.95	2541.50	.67
	1090.000	133.00	2561.80	.00	21.61	.00	9983.00	10010.70	.00	242.96	2562.25	.00
*	1090.000	133.00	2561.79	-.01	21.29	9983.00	9983.00	10010.70	10008.00	265.83	2562.28	.03

1

SUMMARY OF ERRORS AND SPECIAL NOTES

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CAUTION SECNO=    120.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    120.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    120.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    120.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    120.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=    210.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    210.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    210.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    210.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    310.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    310.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    310.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    310.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    380.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    380.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
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CAUTION SECNO=    380.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    380.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

 ION SECNO=    450.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
 ION SECNO=    450.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    450.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    450.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    520.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    520.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    520.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    520.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    520.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    520.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=    580.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    580.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    580.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    580.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    690.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    690.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    690.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    690.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    690.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    800.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    800.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
 TION SECNO=    800.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
 ION SECNO=    800.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    890.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    890.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
1
   3/11/90      14:48:13                                                    PAGE   16


CAUTION SECNO=    890.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    890.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    980.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    980.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    980.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    980.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    980.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    980.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=   1090.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1090.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   1090.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1090.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

1
   3/11/90      14:48:13                                                    PAGE   17


FLOODWAY DATA,    WILLOW SPR. TRIB 4
PROFILE NO.  2
```

	STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WATER SURFACE ELEVATION WITHOUT FLOODWAY	DIFFERENCE
	2930.000	44.	103.	3.1	2332.0	2331.0	1.0
	120.000	15.	37.	8.7	2355.0	2354.9	.1
	210.000	19.	38.	8.3	2373.4	2373.5	-.1
	310.000	52.	54.	5.9	2392.5	2392.5	.0
	380.000	16.	37.	8.7	2404.5	2404.5	.0
	450.000	18.	38.	8.3	2416.4	2416.5	-.1
	520.000	24.	32.	6.8	2432.7	2432.7	.0
	580.000	14.	27.	8.0	2442.7	2442.7	.0
H	690.000	15.	28.	7.8	2470.3	2470.4	-.1
H	800.000	22.	32.	6.9	2492.8	2492.9	-.1
J	890.000	26.	34.	6.5	2514.6	2514.6	.0
K	980.000	8.	17.	8.0	2540.5	2540.2	.3
L	1090.000	25.	24.	5.6	2561.8	2561.8	.0

```
*****************************************************
*  WATER SURFACE PROFILES                           *
*  VERSION OF SEPTEMBER 1988                        *
*  ERROR: 01,02,03                                  *
*  [illegible]ATED:  SEPTEMBER 1989                 *
*  [illegible] DATE     4/ 3/90    TIME   12:50:39  *
*****************************************************
```

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*****************************************
*  U.S. ARMY CORPS OF ENGINEERS
*  THE HYDROLOGIC ENGINEERING CENTER
*  609 SECOND STREET, SUITE D
*  DAVIS, CALIFORNIA 95616-4687
*           (916) 756-1104
*****************************************
```

```
X     X  XXXXXXX   XXXXX              XXXXX
X     X  X        X     X            X     X
X     X  X        X                        X
XXXXXXX  XXXX     X          XXXXX    XXXXX
X     X  X        X                  X
X     X  X        X     X            X
X     X  XXXXXXX   XXXXX              XXXXXXX
```

END OF BANNER

THIS RUN EXECUTED 4/ 3/90 12:50:39

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**************************************************
 HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989


 ERROR CORR -  01,02,03
 MODIFICATION -
**************************************************


T1      FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LAO27815.H2
T2      10-YR FLOOD FREQUENCY MODEL
T3      WILLOW SPRINGS WASH, TRIB. 5  (WST5.DAT)


J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

              2                         .024                                2045.83

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

     1                 -1


J3  VARIABLE CODES FOR SUMMARY PRINTOUT

    [illegible]8      1        43       8        55       26       56       13       14       15
    [illegible]4      5        51       150


QT       4       352      536      631      804


NC     .06       .06      .05

        ***REVISED STREAMFLOW REVISIONS FROM CVCRK43R.OUT****
         COMMON SECTION IS SEC. 130 FROM WILLOW SPRINGS WASH (HTA)
         SEC. 000 = SEC. 0.15 OF WILLOW SPR. WASH
         WSEL IS FROM H.T.A. 87 FIS SECTION 130 (WILLOWWA.OUT)
         QT VALUES ARE FROM HEC-1 SUBWTRSHD 'F3'.
X1      130       15     9988.3   10027.9
GR   2062.6    9913.2   2056.6    9933.9   2056.5   9961.6   2051.5   9979.2   2051.8   9979.4
GR   2044.9    9988.3   2044.3   10000.0   2043.2  10014.3   2045.3  10021.9   2046.4  10027.9
GR   2048.0   10033.5   2052.9   10047.7   2059.2  10063.9   2061.2  10095.3   2061.1  10103.3


X1       50       10     9991.0   10020.0    300      340      320
GR   2072.9    9944.8   2060.0    9976.0   2054.4   9991.0   2053.4  10000.0   2054.4  10007.5
GR   2055.6   10020.0   2063.2   10029.2   2068.0  10041.6   2069.2  10057.0   2069.0  10079.9
```

NC	.05	.05	.04							
X1	110	10	9985.7	10003.8	300	340	320			
GR	2085.7	9935.8	2061.5	9985.7	2061.8	9995.5	2060.7	10000.0	2060.3	10003.8
GR	2068.3	10015.0	2080.3	10039.4	2083.1	10055.9	2084.5	10087.5	2084.5	10090.9
X1	200	9	9989.2	10015.7	520	440	480			
GR	2092.0	9917.0	2083.8	9961.1	2067.0	9989.2	2066.5	10000.0	2066.7	10007.6
GR	2067.5	10015.7	2078.3	10040.1	2084.1	10062.2	2085.5	10082.6		
NC	.045	.045	.035							
X1	300	8	9990.2	10008.2	520	540	530			
GR	2104.0	9929.2	2075.9	9990.2	2074.1	10000.0	2075.8	10008.2	2078.6	10013.9
GR	2088.4	10038.9	2094.5	10060.7	2095.8	10069.3				
X1	410	12	9984.9	10007.3	580	560	580			
GR	2105.1	9922.8	2101.6	9944.8	2092.3	9960.2	2085.3	9978.8	2084.9	9984.9
GR	2083.4	9994.2	2083.9	10000.0	2084.1	10007.3	2085.9	10017.2	2094.3	10041.4
GR	2101.4	10083.7	2101.0	10085.8						
NC	.06	.06	.04							
X1	510	12	9990.0	10006.9	500	560	530			
GR	2108.6	9928.0	2107.6	9952.2	2103.2	9967.7	2090.6	9990.0	2089.6	9998.3
GR	2089.7	10000.0	2091.4	10006.9	2091.2	10012.0	2091.4	10022.0	2098.0	10050.3
GR	2104.4	10077.9	2105.5	10090.1						
NC	.05	.05	.045							
X1	580	15	9991.3	10007.2	390	350	370			
GR	2115.3	9914.1	2111.4	9935.5	2100.2	9965.9	2097.0	9978.0	2096.3	9986.0
GR	2094.7	9991.3	2095.5	9998.1	2095.5	10000.0	2094.6	10007.2	2098.0	10016.5
GR	2106.1	10033.4	2107.0	10057.9	2107.7	10078.6	2114.0	10092.1	2115.6	10127.3
X1	650	17	9978.6	10010.0	350	390	370			
GR	2119.4	9854.2	2116.7	9892.5	2119.1	9904.7	2114.7	9926.7	2103.0	9956.8
GR	2102.9	9978.6	2102.4	9979.4	2100.3	9994.2	2100.1	10000.0	2097.7	10010.0
GR	2108.2	10025.3	2110.4	10048.3	2111.9	10087.9	2113.1	10139.7	2114.1	10188.6
GR	2117.3	10217.4	2120.1	10231.2						

```
NC                                        .3        .5
        SPECIAL BRIDGE USED TO MODEL CULVERT CROSSING. HY-8 WILL
        BE USED TO VERIFY.
        CULVERT DIMENSIONS ARE APPROXIMATE FROM TOPO.
        3-42" CMP CULVERTS W/HEADWALL AND 1-40"X27" CMPA W/HEADWALL
        FIELD VERIFICATION REQUIRED
X1     690       16   10000.0   10020.1       170       190       240
GR  2122.4   9916.8    2120.4    9920.5    2119.2    9963.6    2114.4    9974.8    2111.6    9980.0
GR  2102.4  10000.0    2103.3   10017.8    2105.7   10020.1    2113.8   10090.3    2113.8   10112.1
GR  2113.4  10171.9    2114.8   10211.8    2118.7   10243.3    2119.5   10256.9    2117.4   10285.3
GR  2117.0  10307.5

X1     700                                     70        70        70
X5       4   2112.15   2115.70   2116.00   2116.38

X1     710       23    9989.8   10016.5        50        50        50
GR  2126.3   9912.6    2122.2    9921.4    2120.3    9930.1    2123.0    9944.7    2120.5    9957.6
GR  2114.6   9972.0    2110.3    9979.8    2105.8    9989.8    2105.3   10000.0    2105.6   10008.8
GR  2107.3  10016.5    2107.8   10036.1    2108.1   10081.9    2109.4   10098.8    2110.8   10122.6
GR  2112.3  10141.4    2113.2   10149.0    2113.4   10160.0    2112.5   10168.3    2116.5   10187.9
GR  2118.8  10208.8    2123.7   10237.6    2130.0   10266.1

X1     800       13    9982.4   10010.8       490       470       480
GR  2130.5   9885.0    2120.6    9908.2    2116.7    9931.5    2114.8    9954.5    2112.1    9982.4
GR  2110.1   9986.7    2110.9    9987.0    2111.6   10000.0    2114.1   10010.8    2116.4   10044.1
GR  2118.2  10064.9    2129.0   10097.2    2134.7   10109.8

QT       4      165       251       296       377

NC    .045     .045       .04

        QT VALUES ARE 47% OF SUBWTRSHD F3.
X1     920       18    9982.1   10039.7       630       640       630
GR  2158.2   9854.8    2154.3    9934.7    2142.2    9962.0    2124.8    9982.1    2125.3   10000.0
GR  2126.2  10022.1    2126.3   10028.2    2126.0   10039.7    2129.4   10057.6    2130.5   10073.4
GR  2131.0  10105.6    2131.1   10140.0    2129.6   10198.4    2129.3   10242.0    2129.7   10272.1
GR  2132.9  10282.8    2139.2   10309.9    2140.1   10318.5

X1     990       16    9983.2   10011.0       380       360       370
GR  2159.7   9860.7    2150.9    9887.7    2140.7    9926.9    2139.2    9945.4    2136.2    9983.2
GR  2134.5   9996.4    2134.3   10000.0    2135.8   10011.0    2141.0   10021.0    2145.2   10035.5
GR  2144.6  10050.0    2144.8   10064.5    2147.2   10084.6    2148.0   10109.9    2150.2   10154.3
GR  2150.0  10162.7
```

NC	.045	.045	.035							
X1	1070	16	9976.2	10016.2	400	440	420			
GR	2162.6	9900.6	2160.5	9937.7	2152.4	9954.6	2143.8	9976.2	2143.4	9986.1
GR	2141.9	10000.0	2141.6	10007.5	2143.7	10012.3	2144.4	10016.2	2147.0	10056.4
GR	2148.2	10079.7	2149.2	10123.1	2152.2	10168.1	2156.3	10195.8	2162.8	10220.0
GR	2164.4	10227.3								
NC	.05	.05	.045							
X1	1170	11	9977.0	10000.0	520	540	530			
GR	2166.4	9851.9	2166.0	9866.2	2161.7	9887.7	2158.3	9924.1	2154.2	9953.9
GR	2152.8	9977.0	2148.8	10000.0	2155.7	10012.3	2157.5	10017.0	2166.0	10039.9
GR	2171.2	10056.0								
NC	.05	.05	.04							
X1	1280	17	9984.7	10025.7	600	560	580			
GR	2182.2	9711.3	2179.4	9796.2	2178.0	9840.7	2175.9	9863.7	2171.8	9889.3
GR	2166.8	9925.5	2162.0	9969.7	2161.7	9973.7	2163.9	9984.7	2160.5	9996.4
GR	2160.0	10000.0	2161.8	10025.7	2167.9	10049.3	2172.7	10073.5	2176.0	10097.9
GR	2176.0	10117.1	2182.9	10171.8						
X1	1360	14	9978.7	10021.4	410	430	420			
GR	2185.0	9843.7	2184.8	9878.4	2182.6	9895.7	2173.1	9931.1	2172.5	9958.1
GR	2171.7	9978.7	2169.9	9999.3	2169.6	10000.0	2171.2	10021.4	2174.7	10090.5
GR	2177.1	10122.2	2182.7	10161.3	2186.3	10186.8	2186.1	10200.9		
X1	1460	17	9980.0	10016.2	530	530	530			
GR	2197.0	9828.7	2196.2	9848.4	2194.8	9870.1	2183.7	9903.7	2182.4	9932.7
GR	2181.5	9945.9	2182.5	9980.0	2181.2	10000.0	2183.9	10016.2	2184.7	10023.5
GR	2190.1	10043.3	2195.4	10069.1	2193.2	10083.2	2190.1	10101.5	2196.0	10147.3
GR	2198.2	10178.0	2198.9	10192.4						
X1	1570	15	9994.5	10045.1	580	580	580			
GR	2211.3	9914.6	2212.2	9948.3	2212.0	9964.2	2204.1	9980.4	2195.7	9994.5
GR	2197.2	10000.0	2195.3	10012.1	2195.2	10020.6	2198.7	10045.1	2200.1	10082.0
GR	2200.9	10152.7	2201.0	10159.5	2205.7	10206.4	2210.7	10264.6	2214.5	10309.1
X1	1660	13	9992.9	10035.2	490	470	480			
GR	2222.6	9924.3	2221.7	9949.0	2208.5	9983.0	2205.2	9992.9	2204.8	10000.0
GR	2207.2	10014.1	2208.2	10035.2	2212.0	10070.2	2211.8	10103.2	2214.1	10129.0
GR	2221.3	10162.6	2223.6	10218.7	2224.1	10238.9				

X	1750	12	9984.2	10019.2	480	480	480			
GR	2232.7	9905.3	2229.7	9947.3	2221.0	9969.1	2213.0	9984.2	2214.7	10000.0
GR	2215.7	10019.2	2220.2	10052.3	2220.2	10059.2	2222.7	10087.8	2226.1	10131.2
GR	2227.0	10173.7	2226.7	10182.2						
NC	.045	.045	.04							
X1	1830	12	9974.9	10022.8	410	430	420			
GR	2238.5	9758.3	2237.2	9857.8	2231.5	9893.1	2231.8	9900.3	2229.3	9923.3
GR	2224.8	9964.1	2223.6	9974.9	2222.5	10000.0	2222.0	10011.7	2224.9	10022.8
GR	2236.2	10047.1	2242.9	10076.9						
X1	1920	12	9975.0	10012.2	480	480	480			
GR	2248.6	9850.6	2246.4	9925.1	2243.7	9948.4	2240.2	9961.7	2236.6	9975.0
GR	2237.0	9995.5	2236.8	10000.0	2235.9	10012.2	2240.3	10029.3	2241.3	10035.7
GR	2247.0	10066.8	2255.3	10114.0						
X1	2040	12	9956.1	9995.6	640	620	630			
GR	2261.7	9830.0	2262.8	9905.6	2262.0	9956.1	2246.7	9982.3	2252.8	9995.6
GR	2258.1	10000.0	2259.9	10008.5	2259.3	10031.6	2257.5	10047.2	2254.5	10088.6
GR	2256.6	10108.8	2267.0	10161.2						

```
 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
          QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*PROF 1

*SECNO 130.000
        ***REVISED STREAMFLOW REVISIONS FROM CVCRK43R.OUT****
        COMMON SECTION IS SEC. 130 FROM WILLOW SPRINGS WASH (HTA)
        SEC. 000 = SEC. 0.15 OF WILLOW SPR. WASH
        WSEL IS FROM H.T.A. 87 FIS SECTION 130 (WILLOWWA.OUT)
        QT VALUES ARE FROM HEC-1 SUBWTRSHD 'F3'.
 130.000     2.63  2045.83      .00  2045.83  2046.42      .59      .00      .00  2044.90
    352.       1.     351.       0.       1.      57.       0.       0.       0.  2046.40
     .00     1.97     6.17      .00     .060     .050     .000     .000  2043.20  9987.10
 .024141       0.       0.       0.        0        0        0      .00    37.69 10024.79


*SECNO 50.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  50.000     2.59  2055.99  2055.99      .00  2056.78      .80     8.82      .00  2054.40
    352.      12.     340.       0.       3.      47.       0.       0.       0.  2055.60
     .01     3.63     7.27      .04     .060     .050     .060     .000  2053.40  9986.75
 .031868     300.     320.     340.       20        5        0      .00    33.72 10020.47


*SECNO 110.000
 110.000     3.09  2063.39  2063.36      .00  2064.33      .93     7.54      .00  2061.50
    352.      13.     307.      31.       4.      38.       7.       1.       0.  2060.30
     .02     3.60     8.12     4.67     .050     .040     .050     .000  2060.30  9981.79
 .018116     300.     320.     340.        7       11        0      .00    26.35 10008.14


*SECNO 200.000

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.57

 200.000     2.61  2069.11      .00      .00  2069.57      .46     5.24      .00  2067.00
    352.       9.     337.       6.       4.      61.       3.       1.       1.  2067.50
     .05     2.38     5.53     2.08     .050     .040     .050     .000  2066.50  9985.67
 .007322     520.     480.     440.        6        0        0      .00    33.68 10019.34


*SECNO 300.000
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CNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

300.000	3.16	2077.26	2077.26	.00	2078.29	1.04	5.08	.00	2075.90
352.	5.	340.	6.	2.	41.	2.	2.	1.	2075.80
.07	2.73	8.30	2.84	.045	.035	.045	.000	2074.10	9987.26
.013060	520.	530.	540.	20	11	0	.00	23.91	10011.16

*SECNO 410.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

410.000	2.48	2085.88	2085.88	.00	2086.60	.72	7.33	.00	2084.90
352.	15.	308.	29.	5.	43.	9.	3.	2.	2084.10
.09	2.96	7.20	3.35	.045	.035	.045	.000	2083.40	9977.27
.012291	580.	580.	560.	4	15	0	.00	39.81	10017.08

*SECNO 510.000

[illegible]000	2.95	2092.55	.00	.00	2093.21	.66	6.61	.00	2090.60
[illegible]52.	8.	279.	65.	3.	39.	22.	3.	2.	2091.40
.11	2.47	7.16	3.02	.060	.040	.060	.000	2089.60	9986.57
.012497	500.	530.	560.	3	0	0	.00	40.32	10026.89

*SECNO 580.000

580.000	2.81	2097.41	.00	.00	2097.95	.54	4.74	.00	2094.70
352.	69.	238.	44.	17.	36.	11.	4.	2.	2094.60
.13	4.20	6.56	4.11	.050	.045	.050	.000	2094.60	9976.45
.013210	390.	370.	350.	4	0	0	.00	38.44	10014.89

*SECNO 650.000

650.000	4.37	2102.07	.00	.00	2102.49	.42	4.54	.00	2102.90
352.	0.	287.	65.	0.	54.	14.	5.	3.	2097.70
.15	.00	5.34	4.69	.000	.045	.050	.000	2097.70	9981.71
.011365	350.	370.	390.	2	0	0	.00	34.66	10016.37

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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
          QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


CCHV=     .300 CEHV=     .500
*SECNO 690.000
        SPECIAL BRIDGE USED TO MODEL CULVERT CROSSING. HY-8 WILL
        BE USED TO VERIFY.
        CULVERT DIMENSIONS ARE APPROXIMATE FROM TOPO.
        3-42" CMP CULVERTS W/HEADWALL AND 1-40"X27" CMPA W/HEADWALL
        FIELD VERIFICATION REQUIRED
  690.000     2.77  2105.17      .00      .00  2105.94      .77     3.28      .17  2102.40
     352.      39.     313.       0.       8.      43.       0.       5.       3.   2105.70
      .16     4.66     7.30      .00     .050     .045     .000     .000  2102.40  9993.99
  .018146     170.     240.     190.        3        0        0      .00    25.60 10019.59


*SECNO 700.000
 WATER EL=X5 CARD=   2112.150

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO = 17.49

  700.000     9.75  2112.15      .00      .00  2112.16      .01      .01      .23  2102.40
     352.      66.     196.      90.     103.     183.     180.       5.       3.   2105.70
      .18      .64     1.07      .50     .050     .045     .050     .000  2102.40  9978.98
  .000059      70.      70.      70.        0        0        0      .00    97.02 10076.00


*SECNO 710.000
  710.000     6.86  2112.16      .00      .00  2112.17      .01      .00      .00  2105.80
     352.      21.     133.     199.      44.     170.     402.       6.       3.   2107.30
      .21      .47      .78      .49     .050     .045     .050     .000  2105.30  9976.42
  .000047      50.      50.      50.        2        0        0      .00   163.23 10139.66


*SECNO 800.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  800.000     3.28  2113.38  2113.38      .00  2114.13      .74      .08      .37  2112.10
     352.      28.     324.       0.       8.      45.       0.      10.       4.   2114.10
      .23     3.34     7.15      .00     .050     .045     .000     .000  2110.10  9969.15
  .022989     490.     480.     470.       20       14        0      .00    38.55 10007.70
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 NO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME   VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE  XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 920.000

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .59

        QT VALUES ARE 47% OF SUBWTRSHD F3.
 920.000     1.62  2126.42      .00      .00  2126.63      .21    12.34      .16  2124.80
    165.       4.     160.       1.       2.      43.       0.      10.       5.  2126.00
     .27     2.86     3.69     1.38     .045     .040     .045     .000  2124.80  9980.23
 .014463     630.     630.     640.        4        0        0      .00    61.67 10041.90


*SECNO 990.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 990.000     1.84  2136.14  2136.14      .00  2136.65      .51     6.62      .15  2136.20
    165.       0.     165.       0.       0.      29.       0.      11.       5.  2135.80
     .29      .00     5.75     1.41     .000     .040     .045     .000  2134.30  9983.67
 .022697     380.     370.     360.        3        8        0      .00    27.98 10011.65


*SECNO 1070.000
1070.000     2.01  2143.61      .00      .00  2144.01      .40     7.33      .03  2143.80
    165.       0.     165.       0.       0.      33.       0.      11.       6.  2144.40
     .32      .00     5.07      .00     .000     .035     .000     .000  2141.60  9980.84
 .013820     400.     420.     440.        3        0        0      .00    31.26 10012.10


*SECNO 1170.000
1170.000     2.89  2151.69      .00      .00  2152.12      .43     8.10      .02  2152.80
    165.       0.     131.      34.       0.      24.       7.      11.       6.  2148.80
     .34      .00     5.44     4.52     .000     .045     .050     .000  2148.80  9983.35
 .016908     520.     530.     540.        5        0        0      .00    21.82 10005.16


*SECNO 1280.000

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3720 CRITICAL DEPTH ASSUMED
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
          QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 1280.000    1.76  2161.76  2161.76      .00  2162.22      .47    11.72      .02  2163.90
    165.      0.     165.      0.       0.      30.       0.      12.       6.   2161.80
     .37     .05     5.48     .00     .050     .040     .000     .000  2160.00  9972.96
  .024776   600.     580.     560.       20       14        0      .00    34.01 10025.07


*SECNO 1360.000
 1360.000    1.76  2171.36     .00      .00  2171.72      .37     9.47      .03  2171.70
    165.      0.     165.      0.       0.      34.       0.      12.       7.   2171.20
     .40     .00     4.86     .80     .000     .040     .050     .000  2169.60  9982.58
  .020622   410.     420.     430.        5        0        0      .00    42.00 10024.58


*SECNO 1460.000
 1460.000    1.36  2182.56     .00      .00  2182.77      .21    11.00      .05  2182.50
    165.     81.      84.      0.      28.      20.       0.      13.       7.   2183.90
     .44    2.95     4.23     .00     .050     .040     .000     .000  2181.20  9929.08
  .020880   530.     530.     530.        6        0        0      .00    79.09 10008.17


*SECNO 1570.000

32 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1570.000    1.55  2196.75  2196.75      .00  2197.20      .45    13.03      .12  2195.70
    165.      3.     162.      0.       1.      30.       0.      13.       8.   2198.70
     .47    2.72     5.44     .00     .050     .040     .000     .000  2195.20  9992.74
  .024255   580.     580.     580.        3        8        0      .00    34.20 10031.45


*SECNO 1660.000
 1660.000    2.03  2206.83     .00      .00  2207.36      .53    10.12      .04  2205.20
    165.     14.     151.      0.       4.      25.       0.      13.       8.   2208.20
     .49    3.40     6.03     .00     .050     .040     .000     .000  2204.80  9988.01
  .018457   490.     480.     470.        5        0        0      .00    23.92 10011.93


*SECNO 1750.000
 1750.000    2.43  2215.43     .00      .00  2215.76      .34     8.34      .06  2213.00
    165.     22.     143.      0.       6.      30.       0.      14.       9.   2215.70
     .52    3.99     4.77     .00     .050     .040     .000     .000  2213.00  9979.62
  .016400   480.     480.     480.        5        0        0      .00    34.32 10013.94
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
          QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 1830.000
 1830.000     1.58  2223.58      .00      .00  2223.95      .37     8.17      .01  2223.60
    165.       0.     165.       0.       0.      34.       0.      14.       9.   2224.90
     .54      .00     4.87      .00     .000     .040     .000     .000  2222.00  9975.25
  .023496     410.     420.     430.        4        0        0      .00    42.52 10017.77


*SECNO 1920.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1920.000     1.51  2237.41  2237.41      .00  2237.80      .39    12.24      .01  2236.60
    165.       4.     142.      20.       1.      28.       4.      14.      10.   2235.90
     .57     2.95     5.09     4.47     .045     .040     .045     .000  2235.90  9972.00
  .027775     480.     480.     480.        4       11        0      .00    46.07 10018.08


*SECNO 2040.000
 2040.000     3.62  2250.32      .00      .00  2250.97      .65    13.04      .13  2262.00
    165.       0.     165.       0.       0.      26.       0.      15.      10.   2252.80
     .60      .00     6.46      .00     .000     .040     .000     .000  2246.70  9976.10
  .016041     640.     630.     620.        6        0        0      .00    14.10  9990.20
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T1 FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
T2 50-YR FLOOD FREQUENCY MODEL
T3 WILLOW SPRINGS WASH, TRIBUTARY 5

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
		3			.024				2046.32	

J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	2		-1							

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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
          QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*PROF 2

*SECNO 130.000
       ***REVISED STREAMFLOW REVISIONS FROM CVCRK43R.OUT****
        COMMON SECTION IS SEC. 130 FROM WILLOW SPRINGS WASH (HTA)
        SEC. 000 = SEC. 0.15 OF WILLOW SPR. WASH
        WSEL IS FROM H.T.A. 87 FIS SECTION 130 (WILLOWWA.OUT)
        QT VALUES ARE FROM HEC-1 SUBWTRSHD 'F3'.
 130.000     3.12  2046.32      .00  2046.32  2047.09      .77      .00      .00  2044.90
    536.      3.     533.       0.       1.      75.       0.       0.       0.   2046.40
     .00     2.60     7.06      .00     .060     .050     .000     .000  2043.20  9986.47
 .023891      0.       0.       0.        0        0        0      .00    41.00 10027.46


*SECNO 50.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  50.000     3.11  2056.51  2056.51      .00  2057.53     1.01     8.25      .00  2054.40
    536.      25.     510.       1.       6.      62.       1.       1.       0.   2055.60
     .01     4.12     8.22     2.07     .060     .050     .060     .000  2053.40  9985.34
 .028005     300.     320.     340.       15        5        0      .00    35.77 10021.11


*SECNO 110.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 110.000     3.71  2064.01  2064.01      .00  2065.24     1.23     6.92      .00  2061.50
    536.      27.     459.      49.       6.      49.      10.       1.       1.   2060.30
     .02     4.23     9.40     5.13     .050     .040     .050     .000  2060.30  9980.53
 .017213     300.     320.     340.        5       11        0      .00    28.47 10008.99


*SECNO 200.000

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.54

 200.000     3.24  2069.74      .00      .00  2070.36      .62     5.13      .00  2067.00
    536.      18.     504.      15.       6.      78.       6.       2.       1.   2067.50
     .04     2.83     6.49     2.58     .050     .040     .050     .000  2066.50  9984.61
 .007289     520.     480.     440.        5        0        0      .00    36.16 10020.77
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
          QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 300.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  300.000     3.86  2077.96  2077.96      .00  2079,26     1.29     4.81      .00  2075.90
     536.      16.     504.      17.       5.      54.       5.       3.       1.   2075.80
      .06     3.41     9.37     3.49     .045     .035     .045     .000  2074.10  9985.72
 .011600      520.     530.     540.       20       11        0      .00    26.89 10012.61


*SECNO 410.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  410.000     2.96  2086.36  2086.36      .00  2087.28      .91     6.78      .00  2084.90
     536.      36.     441.      59.       9.      54.      14.       4.       2.   2084.10
      .08     3.88     8.22     4.30     .045     .035     .045     .000  2083.40  9975.97
 .011824      580.     580.     560.        9       15        0      .00    42.57 10018.54


*SECNO 510.000
  510.000     3.45  2093.05      .00      .00  2093.91      .86     6.63      .00  2090.60
     536.      16.     398.     123.       5.      47.      32.       5.       2.   2091.40
      .10     2.96     8.37     3.81     .060     .040     .060     .000  2089.60  9985.67
 .013089      500.     530.     560.        4        0        0      .00    43.40 10029.07


*SECNO 580.000
  580.000     3.39  2097.99      .00      .00  2098.66      .68     4.75      .00  2094.70
     536.     125.     339.      71.      26.      45.      16.       5.       3.   2094.60
      .12     4.89     7.46     4.56     .050     .045     .050     .000  2094.60  9974.28
 .012679      390.     370.     350.        3        0        0      .00    42.18 10016.46


*SECNO 650.000
  650.000     4.95  2102.65      .00      .00  2103.22      .57     4.56      .00  2102.90
     536.       0.     442.      94.       0.      71.      18.       6.       3.   2097.70
      .13      .00     6.21     5.23     .000     .045     .050     .000  2097.70  9978.99
 .011920      350.     370.     390.        2        0        0      .00    38.24 10017.22
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  NO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
 TIME   VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE  XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


CCHV=     .300 CEHV=     .500
*SECNO 690.000
        SPECIAL BRIDGE USED TO MODEL CULVERT CROSSING. HY-8 WILL
        BE USED TO VERIFY.
        CULVERT DIMENSIONS ARE APPROXIMATE FROM TOPO.
        3-42" CMP CULVERTS W/HEADWALL AND 1-40"X27" CMPA W/HEADWALL
        FIELD VERIFICATION REQUIRED
 690.000     3.39  2105.79      .00      .00  2106.82     1.03     3.37      .23  2102.40
    536.      67.     469.       0.      13.      55.       0.       7.       3.   2105.70
     .14     5.36     8.47      .04     .050     .045     .050     .000  2102.40  9992.62
 .018246     170.     240.     190.        3        0        0      .00    28.28 10020.90


*SECNO 700.000
 WATER EL=X5 CARD=   2115.700

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO = 29.41

 700.000    13.30  2115.70      .00      .00  2115.71      .01      .01      .31  2102.40
    536.      98.     203.     235.     190.     254.     652.       8.       3.   2105.70
     .18      .52      .80      .36     .050     .045     .050     .000  2102.40  9971.77
 .000021      70.      70.      70.        0        0        0      .00   247.30 10219.07


*SECNO 710.000
 710.000    10.40  2115.70      .00      .00  2115.71      .00      .00      .00  2105.80
    536.      36.     147.     353.     103.     265.     941.       9.       4.   2107.30
     .21      .35      .55      .38     .050     .045     .050     .000  2105.30  9969.31
 .000013      50.      50.      50.        2        0        0      .00   214.69 10184.00


*SECNO 800.000

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .08

 800.000     5.55  2115.65      .00      .00  2115.80      .15      .02      .07  2112.10
    536.     140.     377.      19.      66.     109.      17.      17.       5.   2114.10
     .25     2.12     3.47     1.11     .050     .045     .050     .000  2110.10  9944.19
 .001962     490.     480.     470.        2        0        0      .00    89.07 10033.26


*SECNO 920.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
          QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
        QT VALUES ARE 47% OF SUBWTRSHD F3.
 920.000     1.67  2126.47  2126.47     .00  2126.89     .42     2.10      .13  2124.80
    251.       6.     243.       1.      2.      47.      1.      19.       6.   2126.00
     .29     3.95     5.23     2.03    .045     .040    .045     .000  2124.80  9980.17
 .026345     630.     630.     640.      20       17       0      .00    62.03 10042.19


*SECNO 990.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 990.000     2.18  2136.48  2136.48     .00  2137.14     .66     8.57      .12  2136.20
    251.       1.     249.       1.      0.      38.      0.      19.       7.   2135.80
     .30     1.27     6.54     2.13    .045     .040    .045     .000  2134.30  9979.67
 .020526     380.     370.     360.       5       11       0      .00    32.64 10012.31


*SECNO 1070.000
1070.000     2.34  2143.94      .00     .00  2144.44     .50     7.26      .05  2143.80
    251.       0.     251.       0.      0.      44.      0.      20.       7.   2144.40
     .32      .04     5.69      .00    .045     .035    .000     .000  2141.60  9975.85
 .014741     400.     420.     440.       5        0       0      .00    37.79 10013.64


*SECNO 1170.000
1170.000     3.41  2152.21      .00     .00  2152.73     .52     8.28      .01  2152.80
    251.       0.     200.      51.      0.      33.     10.      20.       7.   2148.80
     .35      .00     5.99     4.97    .000     .045    .050     .000  2148.80  9980.42
 .016499     520.     530.     540.       4        0       0      .00    25.65 10006.07


*SECNO 1280.000

3265 DIVIDED FLOW

1280.000     2.14  2162.14  2162.08     .00  2162.64     .50     9.91      .01  2163.90
    251.       3.     248.       0.      2.      43.      0.      21.       8.   2161.80
     .38     1.57     5.70     1.20    .050     .040    .050     .000  2160.00  9968.36
 .017823     600.     580.     560.       8       14       0      .00    43.87 10027.04
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
          QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 1360.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1360.000     2.00  2171.60  2171.60      .00  2172.10      .50     8.33      .00  2171.70
    251.       0.     249.       2.       0.      44.       2.      21.       8.   2171.20
     .40      .00     5.70     1.52     .000     .040     .050     .000  2169.60  9979.81
  .022201     410.     420.     430.        5       11        0      .00    49.54 10029.35


*SECNO 1460.000
 1460.000     1.57  2182.77      .00      .00  2183.02      .25    10.85      .07  2182.50
    251.      131.     120.       0.      39.      26.       0.      22.       9.   2183.90
     .44      3.39     4.66      .00     .050     .040     .000     .000  2181.20  9924.46
  .018930     530.     530.     530.        5        0        0      .00    84.96 10009.42


*SECNO 1570.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1570.000     1.87  2197.07  2197.07      .00  2197.62      .54    12.18      .14  2195.70
    251.       5.     246.       0.       2.      41.       0.      23.      10.   2198.70
     .46      3.20     5.96      .00     .050     .040     .000     .000  2195.20  9992.20
  .023410     580.     580.     580.        4       11        0      .00    40.25 10033.71


*SECNO 1660.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1660.000     2.44  2207.24  2207.24      .00  2207.90      .67    10.21      .06  2205.20
    251.       25.     226.       0.       6.      33.       0.      23.      10.   2208.20
     .48      4.04     6.78      .00     .050     .040     .000     .000  2204.80  9986.79
  .019375     490.     480.     470.        5       11        0      .00    28.05 10014.84


*SECNO 1750.000
 1750.000     2.80  2215.80      .00      .00  2216.20      .40     8.22      .08  2213.00
    251.       31.     220.       0.       7.      42.       0.      24.      11.   2215.70
     .51      4.23     5.19      .04     .050     .040     .050     .000  2213.00  9978.92
  .015236     480.     480.     480.        4        0        0      .00    41.02 10019.93
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CNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 1830.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1830.000	1.82	2223.82	2223.82	.00	2224.32	.51	7.87	.05	2223.60
251.	0.	251.	0.	0.	44.	0.	24.	11.	2224.90
.53	1.15	5.71	.00	.045	.040	.000	.000	2222.00	9972.94
.023676	410.	420.	430.	4	14	0	.00	45.71	10018.66

*SECNO 1920.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1920.000	1.77	2237.67	2237.67	.00	2238.16	.49	11.44	.01	2236.60
251.	7.	216.	28.	2.	37.	6.	24.	12.	2235.90
.55	3.29	5.77	4.61	.045	.040	.045	.000	2235.90	9971.05
.023975	480.	480.	480.	4	8	0	.00	48.04	10019.08

*SECNO 2040.000

2040.000	4.11	2250.81	.00	.00	2251.71	.90	13.35	.21	2262.00
251.	0.	251.	0.	0.	33.	0.	25.	12.	2252.80
.58	.00	7.63	.00	.000	.040	.000	.000	2246.70	9975.26
[illegible]881	640.	630.	620.	5	0	0	.00	16.01	9991.26

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T1      FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
T2      100-YR FLOOD FREQUENCY MODEL
T3      WILLOW SPRINGS WASH, TRIBUTARY 5

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ
                 4                         .024                                2046.52

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE
     3                  -1
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
          QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*PROF 3

*SECNO 130.000
        ***REVISED STREAMFLOW REVISIONS FROM CVCRK43R.OUT****
         COMMON SECTION IS SEC. 130 FROM WILLOW SPRINGS WASH (HTA)
         SEC. 000 = SEC. 0.15 OF WILLOW SPR. WASH
         WSEL IS FROM H.T.A. 87 FIS SECTION 130 (WILLOWWA.OUT)
         QT VALUES ARE FROM HEC-1 SUBWTRSHD 'F3'.
 130.000     3.32  2046.52      .00  2046.52  2047.39      .87      .00      .00  2044.90
    631.      5.     626.       0.       2.      83.       0.       0.       0.   2046.40
     .00     2.85     7.51      .04     .060     .050     .060     .000  2043.20  9986.21
 .024042      0.       0.       0.        0        0        0      .00    42.11 10028.32


*SECNO 50.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  50.000     3.36  2056.76  2056.76      .00  2057.87     1.10     8.06      .00  2054.40
    631.      32.     597.       2.       7.      69.       1.       1.       0.   2055.60
     .01     4.31     8.61     2.36     .060     .050     .060     .000  2053.40  9984.67
 .026478     300.     320.     340.       13        5        0      .00    36.74 10021.41


*SECNO 110.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 110.000     4.01  2064.31  2064.31      .00  2065.65     1.34     6.60      .00  2061.50
    631.      36.     535.      59.       8.      54.      11.       1.       1.   2060.30
     .02     4.46     9.87     5.29     .050     .040     .050     .000  2060.30  9979.91
 .016521     300.     320.     340.        4       11        0      .00    29.49 10009.41


*SECNO 200.000

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.50

 200.000     3.52  2070.02      .00      .00  2070.72      .70     5.07      .00  2067.00
    631.      23.     588.      20.       8.      85.       7.       2.       1.   2067.50
     .04     3.03     6.92     2.80     .050     .040     .050     .000  2066.50  9984.15
 .007355     520.     480.     440.        5        0        0      .00    37.25 10021.39
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
          QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 300.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  300.000     4.17  2078.27  2078.27      .00  2079.69     1.42     4.78      .00  2075.90
     631.      23.     585.      23.       6.      59.       6.       3.       1.   2075.80
      .06     3.69     9.87     3.76     .045     .035     .045     .000  2074.10  9985.05
  .011308     520.     530.     540.       20       11        0      .00    28.18 10013.23


*SECNO 410.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  410.000     3.19  2086.59  2086.59      .00  2087.58     1.00     6.64      .00  2084.90
     631.      48.     507.      76.      11.      59.      16.       4.       2.   2084.10
      .08     4.23     8.66     4.67     .045     .035     .045     .000  2083.40  9975.38
  .011657     580.     580.     560.        9       15        0      .00    43.79 10019.17


*SECNO 510.000
  510.000     3.67  2093.27      .00      .00  2094.23      .96     6.65      .00  2090.60
     631.      20.     457.     154.       6.      51.      37.       5.       2.   2091.40
      .10     3.17     8.90     4.14     .060     .040     .060     .000  2089.60  9985.27
  .013341     500.     530.     560.        4        0        0      .00    44.77 10030.03


*SECNO 580.000
  580.000     3.64  2098.24      .00      .00  2098.98      .73     4.74      .00  2094.70
     631.     155.     387.      89.      30.      50.      18.       6.       3.   2094.60
      .11     5.16     7.81     4.92     .050     .045     .050     .000  2094.60  9973.31
  .012400     390.     370.     350.        3        0        0      .00    43.68 10017.00


*SECNO 650.000
  650.000     5.20  2102.90      .00      .00  2103.55      .65     4.57      .00  2102.90
     631.       0.     524.     107.       0.      79.      20.       7.       3.   2097.70
      .13      .00     6.66     5.47     .000     .045     .050     .000  2097.70  9978.61
  .012254     350.     370.     390.        2        0        0      .00    38.96 10017.57
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
          QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


CCHV=     .300 CEHV=     .500
*SECNO 690.000

3301 HV CHANGED MORE THAN HVINS

        SPECIAL BRIDGE USED TO MODEL CULVERT CROSSING. HY-8 WILL
        BE USED TO VERIFY.
        CULVERT DIMENSIONS ARE APPROXIMATE FROM TOPO.
        3-42" CMP CULVERTS W/HEADWALL AND 1-40"X27" CMPA W/HEADWALL
        FIELD VERIFICATION REQUIRED
 690.000     3.66  2106.06  2105.91      .00  2107.22     1.16     3.42      .26  2102.40
    631.      82.     548.      1.      15.     61.       1.       7.       3.   2105.70
     .13     5.64     9.02     1.28     .050     .045     .050     .000  2102.40  9992.04
 .018234     170.     240.     190.        4       14        0      .00    31.21 10023.25


*SECNO 700.000
 WATER EL=X5 CARD=   2116.000

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO = 27.02

 700.000    13.60  2116.00      .00      .00  2116.01      .01      .01      .35  2102.40
    631.     113.     229.     288.     199.     261.     712.       8.       3.   2105.70
     .17      .57      .88      .41     .050     .045     .050     .000  2102.40  9971.07
 .000025      70.      70.      70.        0        0        0      .00   250.43 10221.49


*SECNO 710.000
 710.000    10.70  2116.00      .00      .00  2116.01      .00      .00      .00  2105.80
    631.      43.     169.     419.     110.     273.     991.      10.       4.   2107.30
     .20      .39      .62      .42     .050     .045     .050     .000  2105.30  9968.57
 .000016      50.      50.      50.        2        0        0      .00   216.90 10185.47


*SECNO 800.000

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .09

 800.000     5.85  2115.95      .00      .00  2116.11      .16      .03      .08  2112.10
    631.     175.     425.      31.      78.     117.      25.      19.       5.   2114.10
     .24     2.25     3.63     1.24     .050     .045     .050     .000  2110.10  9940.55
 .001938     490.     480.     470.        2        0        0      .00    97.06 10037.62
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
          QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 920.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
        QT VALUES ARE 47% OF SUBWTRSHD F3.
 920.000     1.77  2126.57  2126.57     .00  2127.03     .46     2.07     .15  2124.80
    296.       7.     287.       2.      2.      52.      1.      21.      7.   2126.00
     .27     4.01     5.52     2.24    .045     .040    .045     .000  2124.80  9980.06
 .025284     630.     630.     640.      20       17       0      .00    62.63 10042.69


*SECNO 990.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 990.000     2.36  2136.66  2136.66     .00  2137.36     .71     8.04     .12  2136.20
    296.       2.     292.       2.      1.      43.      1.      21.      7.   2135.80
     .29     1.69     6.79     2.38    .045     .040    .045     .000  2134.30  9977.45
 .018848     380.     370.     360.       4       11       0      .00    35.19 10012.65


*SECNO 1070.000
1070.000     2.44  2144.04  2144.00     .00  2144.63     .59     7.23     .03  2143.80
    296.       0.     296.       0.      0.      48.      0.      21.      7.   2144.40
     .30      .04     6.17      .00    .045     .035    .000     .000  2141.60  9975.59
 .015805     400.     420.     440.       8        8       0      .00    38.62 10014.21


*SECNO 1170.000
1170.000     3.66  2152.46     .00     .00  2153.00     .54     8.36     .01  2152.80
    296.       0.     235.      61.      0.      38.     12.      22.      8.   2148.80
     .33      .00     6.12     5.08    .000     .045    .050     .000  2148.80  9978.97
 .015669     520.     530.     540.       5        0       0      .00    27.55 10006.52


*SECNO 1280.000

3265 DIVIDED FLOW

1280.000     2.26  2162.26  2162.23     .00  2162.83     .57     9.82     .01  2163.90
    296.       5.     290.       1.      3.      47.      0.      23.      8.   2161.80
     .36     1.94     6.11     1.48    .050     .040    .050     .000  2160.00  9967.31
 .018470     600.     580.     560.       7       14       0      .00    46.32 10027.48
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CNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 1360.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1360.000	2.13	2171.73	2171.73	.00	2172.27	.54	8.35	.01	2171.70
296.	0.	291.	5.	0.	49.	3.	23.	9.	2171.20
.38	.04	5.94	1.79	.050	.040	.050	.000	2169.60	9977.95
.021445	410.	420.	430.	5	11	0	.00	53.90	10031.85

*SECNO 1460.000

1460.000	1.65	2182.85	.00	.00	2183.14	.29	10.80	.08	2182.50
296.	157.	139.	0.	43.	28.	0.	24.	10.	2183.90
.41	3.63	4.95	.00	.050	.040	.000	.000	2181.20	9922.67
.019378	530.	530.	530.	5	0	0	.00	87.23	10009.90

*SECNO 1570.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1570.000	2.01	2197.21	2197.21	.00	2197.80	.59	12.30	.15	2195.70
296.	7.	289.	0.	2.	47.	0.	25.	10.	2198.70
.44	3.40	6.21	.00	.050	.040	.000	.000	2195.20	9991.97
[illegible]323	580.	580.	580.	3	11	0	.00	42.70	10034.67

*SECNO 1660.000

1660.000	2.68	2207.48	.00	.00	2208.12	.64	10.30	.03	2205.20
296.	34.	262.	0.	8.	39.	0.	25.	11.	2208.20
.46	4.40	6.65	.00	.050	.040	.000	.000	2204.80	9986.06
.019744	490.	480.	470.	4	0	0	.00	33.98	10020.04

*SECNO 1750.000

1750.000	2.94	2215.94	.00	.00	2216.39	.45	8.21	.06	2213.00
296.	35.	261.	0.	8.	47.	0.	26.	11.	2215.70
.48	4.32	5.53	.87	.050	.040	.050	.000	2213.00	9978.66
.014960	480.	480.	480.	6	0	0	.00	42.29	10020.95

*SECNO 1830.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1830.000	1.94	2223.94	2223.94	.00	2224.50	.56	7.66	.05	2223.60
296.	1.	295.	0.	1.	49.	0.	26.	12.	2224.90
.50	1.52	6.00	.00	.045	.040	.000	.000	2222.00	9971.86
.022766	410.	420.	430.	3	19	0	.00	47.26	10019.12

```
 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
          QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

*SECNO 1920.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1920.000     1.89  2237.79  2237.79      .00  2238.33      .54    11.01      .01  2236.60
     296.       9.     254.      33.       3.      42.       7.      27.      12.   2235.90
      .52     3.46     6.09     4.73     .045     .040     .045     .000  2235.90  9970.62
  .023100     480.     480.     480.        3        8        0      .00    48.92 10019.53

*SECNO 2040.000
 2040.000     4.33  2251.03  2250.96      .00  2252.05     1.02    13.48      .24  2262.00
     296.       0.     296.       0.       0.      37.       0.      28.      13.   2252.80
      .55      .00     8.11      .00     .000     .040     .000     .000  2246.70  9974.88
  .019904     640.     630.     620.        7       20        0      .00    16.86  9991.74
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T1      FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
T2      500-YR FLOOD FREQUENCY MODEL
T3      WILLOW SPRINGS WASH, TRIBUTARY 5

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ
                5                         .024                                2046.85

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE
    15                 -1
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
          QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*PROF 4

*SECNO 130.000
      ***REVISED STREAMFLOW REVISIONS FROM CVCRK43R.OUT****
       COMMON SECTION IS SEC. 130 FROM WILLOW SPRINGS WASH (HTA)
       SEC. 000 = SEC. 0.15 OF WILLOW SPR. WASH
       WSEL IS FROM H.T.A. 87 FIS SECTION 130 (WILLOWWA.OUT)
       QT VALUES ARE FROM HEC-1 SUBWTRSHD 'F3'.
 130.000     3.65  2046.85      .00  2046.85  2047.90     1.05      .00      .00  2044.90
    804.      8.     796.       0.       2.      96.       0.       0.       0.   2046.40
     .00     3.22     8.25     1.38     .060     .050     .060     .000  2043.20  9985.79
 .023888      0.       0.       0.        0        0        0      .00    43.69 10029.48


*SECNO 50.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  50.000     3.75  2057.15  2057.15      .00  2058.44     1.29     7.87      .00  2054.40
    804.      48.     752.       4.      10.      81.       1.       1.       0.   2055.60
     .01     4.68     9.33     2.81     .060     .050     .060     .000  2053.40  9983.62
 .025422     300.     320.     340.       12        8        0      .00    38.26 10021.88


*SECNO 110.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 110.000     4.50  2064.80  2064.80      .00  2066.33     1.53     6.28      .00  2061.50
    804.      54.     671.      79.      11.      63.      14.       1.       1.   2060.30
     .02     4.83    10.62     5.56     .050     .040     .050     .000  2060.30  9978.90
 .015616     300.     320.     340.        4       11        0      .00    31.20 10010.10


*SECNO 200.000

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.45

 200.000     3.98  2070.48      .00      .00  2071.32      .84     4.99      .00  2067.00
    804.      34.     739.      32.      10.      97.      10.       2.       1.   2067.50
     .04     3.35     7.60     3.15     .050     .040     .050     .000  2066.50  9983.38
 .007420     520.     480.     440.        4        0        0      .00    39.06 10022.43
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 [illegible]NO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 [illegible]      OLOB     OCH      OROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME           VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
   SLOPE          XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*SECNO 300.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  300.000     4.75  2078.85  2078.85      .00  2080:39     1.54     4.56      .00  2075.90
     804.      38.     725.      41.       9.      70.       9.       4.       1.   2075.80
      .05     4.04    10.40     4.28     .045     .035     .045     .000  2074.10  9983.79
  .010115     520.     530.     540.       20       11        0      .00    30.74 10014.54


*SECNO 410.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  410.000     3.55  2086.95  2086.95      .00  2088.09     1.15     6.23      .00  2084.90
     804.      71.     625.     109.      15.      67.      21.       5.       2.   2084.10
      .07     4.75     9.38     5.21     .045     .035     .045     .000  2083.40  9974.43
  .011498     580.     580.     560.       11       19        0      .00    45.79 10020.21


*[illegible] 510.000
  [illegible].000     4.05  2093.65      .00      .00  2094.77     1.12     6.67      .00  2090.60
     804.      29.     561.     215.       8.      58.      46.       6.       2.   2091.40
      .09     3.49     9.73     4.63     .060     .040     .060     .000  2089.60  9984.60
  .013628     500.     530.     560.        4        0        0      .00    47.04 10031.65


*SECNO 580.000
  580.000     4.06  2098.66      .00      .00  2099.49      .83     4.72      .00  2094.70
     804.     212.     470.     122.      38.      56.      22.       7.       3.   2094.60
      .10     5.58     8.37     5.46     .050     .045     .050     .000  2094.60  9971.74
  .012055     390.     370.     350.        3        0        0      .00    46.13 10017.87


*SECNO 650.000
  650.000     5.56  2103.26      .00      .00  2104.04      .78     4.54      .00  2102.90
     804.      10.     664.     130.       7.      90.      23.       8.       3.   2097.70
      .12     1.50     7.36     5.77     .050     .045     .050     .000  2097.70  9956.13
  .012487     350.     370.     390.        2        0        0      .00    61.97 10018.10
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
          QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


CCHV=     .300 CEHV=     .500
*SECNO 690.000

3301 HV CHANGED MORE THAN HVINS

        SPECIAL BRIDGE USED TO MODEL CULVERT CROSSING. HY-8 WILL
        BE USED TO VERIFY.
        CULVERT DIMENSIONS ARE APPROXIMATE FROM TOPO.
        3-42" CMP CULVERTS W/HEADWALL AND 1-40"X27" CMPA W/HEADWALL
        FIELD VERIFICATION REQUIRED
 690.000     4.06  2106.46  2106.45      .00  2107.88     1.42     3.52      .32  2102.40
    804.     111.     688.      5.      18.     69.       2.       9.       4.   2105.70
     .13     6.18    10.02     2.14     .050     .045     .050     .000  2102.40  9991.18
 .019132     170.     240.     190.        2       15        0      .00    35.47 10026.65


*SECNO 700.000
 WATER EL=X5 CARD=   2116.380

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO = 23.93

 700.000    13.98  2116.38      .00      .00  2116.39      .01      .01      .42  2102.40
    804.     141.     278.     384.     210.     268.     789.      10.       4.   2105.70
     .15      .67     1.04      .49     .050     .045     .050     .000  2102.40  9970.18
 .000033      70.      70.      70.        0        0        0      .00   254.38 10224.56


*SECNO 710.000
 710.000    11.09  2116.39      .00      .00  2116.39      .01      .00      .00  2105.80
    804.      55.     211.     538.     118.     283.    1056.      11.       4.   2107.30
     .18      .47      .74      .51     .050     .045     .050     .000  2105.30  9967.64
 .000022      50.      50.      50.        2        0        0      .00   219.70 10187.34


*SECNO 800.000

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .10

 800.000     6.23  2116.33      .00      .00  2116.52      .19      .03      .09  2112.10
    804.     238.     514.      53.      94.     128.      36.      21.       6.   2114.10
     .22     2.52     4.02     1.47     .050     .045     .050     .000  2110.10  9936.01
 .002118     490.     480.     470.        2        0        0      .00   107.04 10043.05
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
          QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 920.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
        QT VALUES ARE 47% OF SUBWTRSHD F3.
  920.000     1.93  2126.73  2126.73      .00  2127.27      .53     2.21      .17  2124.80
     377.       9.     365.       4.       2.      62.       1.      23.       7.   2126.00
      .25     4.09     5.93     2.55     .045     .040     .045     .000  2124.80  9979.87
 .023317      630.     630.     640.       20       17        0      .00    63.70 10043.56


*SECNO 990.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  990.000     2.64  2136.94  2136.94      .00  2137.72      .78     7.31      .12  2136.20
     377.       8.     366.       3.       3.      51.       1.      24.       7.   2135.80
      .26     2.21     7.20     2.72     .045     .040     .045     .000  2134.30  9973.90
 .016940      380.     370.     360.        4       11        0      .00    39.29 10013.19


*SECNO 1070.000
7185 MINIMUM SPECIFIC ENERGY
3[illegible]RITICAL DEPTH ASSUMED
 [illegible].000     2.64  2144.24  2144.24      .00  2144.95      .72     7.00      .02  2143.80
     377.       0.     377.       0.       0.      55.       0.      24.       8.   2144.40
      .28     1.46     6.79      .00     .045     .035     .000     .000  2141.60  9975.10
 .016395      400.     420.     440.        4        5        0      .00    40.19 10015.29


*SECNO 1170.000
 1170.000     4.01  2152.81      .00      .00  2153.42      .61     8.44      .03  2152.80
     377.       0.     300.      77.       0.      46.      14.      25.       8.   2148.80
      .30      .04     6.47     5.36     .000     .045     .050     .000  2148.80  9976.75
 .015404      520.     530.     540.        3        0        0      .00    30.40 10007.16


*SECNO 1280.000

3265 DIVIDED FLOW

 1280.000     2.47  2162.47  2162.46      .00  2163.13      .66     9.68      .02  2163.90
     377.      12.     363.       2.       5.      55.       1.      26.       9.   2161.80
      .33     2.39     6.61     1.90     .050     .040     .050     .000  2160.00  9965.37
 .018259      600.     580.     560.        7       14        0      .00    50.85 10028.29
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

*SECNO 1360.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1360.000     2.34  2171.94  2171.94      .00  2172.54      .59     7.83      .02  2171.70
    377.       1.     365.      12.       1.     58.       5.      26.       9.   2171.20
     .35     1.01     6.27     2.12     .050     .040     .050     .000  2169.60  9972.43
  .019031     410.     420.     430.       10       11        0      .00    63.64 10036.08

*SECNO 1460.000
 1460.000     1.76  2182.96      .00      .00  2183.32      .36    10.71      .07  2182.50
    377.      203.     174.       0.      49.     31.       0.      27.      10.   2183.90
     .38     4.11     5.53      .00     .050     .040     .000     .000  2181.20  9920.24
  .021490     530.     530.     530.        5        0        0      .00    90.31 10010.55

*SECNO 1570.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1570.000     2.23  2197.43  2197.43      .00  2198.10      .67    12.62      .15  2195.70
    377.       9.     368.       0.       3.     56.       0.      28.      11.   2198.70
     .40     3.62     6.62      .00     .050     .040     .000     .000  2195.20  9991.60
  .021039     580.     580.     580.        5       11        0      .00    44.60 10036.20

*SECNO 1660.000
 1660.000     2.97  2207.77  2207.75      .00  2208.45      .68    10.34      .01  2205.20
    377.      49.     328.       0.      10.     48.       0.      29.      12.   2208.20
     .42     4.91     6.85      .00     .050     .040     .000     .000  2204.80  9985.20
  .021015     490.     480.     470.        6       11        0      .00    40.84 10026.05

*SECNO 1750.000
 1750.000     3.18  2216.18      .00      .00  2216.71      .53     8.21      .05  2213.00
    377.      42.     334.       1.      10.     56.       1.      29.      12.   2215.70
     .44     4.44     6.01     1.35     .050     .040     .050     .000  2213.00  9978.20
  .014189     480.     480.     480.        6        0        0      .00    44.51 10022.71

*SECNO 1830.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1830.000     2.14  2224.14  2224.14      .00  2224.78      .64     7.24      .05  2223.60
    377.       3.     374.       0.       1.     58.       0.      30.      13.   2224.90
     .46     2.01     6.43      .00     .045     .040     .000     .000  2222.00  9970.05
  .021453     410.     420.     430.        4       19        0      .00    49.84 10019.89
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
          QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 1920.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1920.000     2.08  2237.98  2237.98      .00  2238.61      .62    10.36      .00  2236.60
     377.      13.     323.      41.       4.      49.       8.      31.      13.   2235.90
      .48     3.72     6.58     4.90     .045     .040     .045     .000  2235.90  9969.89
  .021733     480.     480.     480.       .5        8        0      .00    50.40 10020.29


*SECNO 2040.000

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2040.000     4.69  2251.39  2251.39      .00  2252.59     1.21    13.51      .29  2262.00
     377.       0.     377.       0.       0.      43.       0.      32.      14.   2252.80*
      .50      .00     8.82      .00     .000     .040     .000     .000  2246.70  9974.27
  .021182     640.     630.     620.        4       20        0      .00    18.25  9992.52
```

THIS RUN EXECUTED 4/ 3/90 12:51:25

****
HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989

ERROR CORR - 01,02,03
MODIFICATION -
****

NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

WILLOW SPRINGS WASH, TRI

SUMMARY PRINTOUT

	SECNO	CWSEL	Q	DEPTH	VLOB	VCH	VROB	QLOB	QCH	QROB	TOPWID	10*KS	DIFWSX
	130.000	2045.83	352.00	2.63	1.97	6.17	.00	1.10	350.90	.00	37.69	241.41	.00
	130.000	2046.32	536.00	3.12	2.60	7.06	.00	3.39	532.61	.00	41.00	238.91	.00
	130.000	2046.52	631.00	3.32	2.85	7.51	.04	4.83	626.17	.00	42.11	240.42	.00
	130.000	2046.85	804.00	3.65	3.22	8.25	1.38	7.89	795.62	.49	43.69	238.88	.00
*	50.000	2055.99	352.00	2.59	3.63	7.27	.04	12.23	339.76	.00	33.72	318.68	10.16
*	50.000	2056.51	536.00	3.11	4.12	8.22	2.07	24.64	510.32	1.04	35.77	280.05	10.19
*	50.000	2056.76	631.00	3.36	4.31	8.61	2.36	32.30	596.77	1.94	36.74	264.78	10.24
*	50.000	2057.15	804.00	3.75	4.68	9.33	2.81	47.55	752.34	4.10	38.26	254.22	10.30
	110.000	2063.39	352.00	3.09	3.60	8.12	4.67	13.38	307.25	31.37	26.35	181.16	7.41
*	110.000	2064.01	536.00	3.71	4.23	9.40	5.13	27.44	459.16	49.40	28.47	172.13	7.50
*	110.000	2064.31	631.00	4.01	4.46	9.87	5.29	36.23	535.34	59.44	29.49	165.21	7.54
*	110.000	2064.80	804.00	4.50	4.83	10.62	5.56	54.25	670.98	78.77	31.20	156.16	7.65
*	200.000	2069.11	352.00	2.61	2.38	5.53	2.08	8.90	336.99	6.10	33.68	73.22	5.72
*	200.000	2069.74	536.00	3.24	2.83	6.49	2.58	17.81	503.51	14.67	36.16	72.89	5.73
*	200.000	2070.02	631.00	3.52	3.03	6.92	2.80	23.11	587.79	20.10	37.25	73.55	5.71
*	200.000	2070.48	804.00	3.98	3.35	7.60	3.15	33.90	738.51	31.59	39.06	74.20	5.68
*	300.000	2077.26	352.00	3.16	2.73	8.30	2.84	5.45	340.41	6.13	23.91	130.60	8.14
*	300.000	2077.96	536.00	3.86	3.41	9.37	3.49	15.76	503.62	16.63	26.89	116.00	8.22
*	300.000	2078.27	631.00	4.17	3.69	9.87	3.76	22.50	585.13	23.37	28.18	113.08	8.25
*	300.000	2078.85	804.00	4.75	4.04	10.40	4.28	38.15	725.24	40.61	30.74	101.15	8.37
*	410.000	2085.88	352.00	2.48	2.96	7.20	3.35	15.34	307.58	29.08	39.81	122.91	8.62
*	410.000	2086.36	536.00	2.96	3.88	8.22	4.30	35.74	440.82	59.44	42.57	118.24	8.40
*	410.000	2086.59	631.00	3.19	4.23	8.66	4.67	47.57	507.04	76.39	43.79	116.57	8.31
*	410.000	2086.95	804.00	3.55	4.75	9.38	5.21	70.64	624.68	108.68	45.79	114.98	8.10
	510.000	2092.55	352.00	2.95	2.47	7.16	3.02	8.24	278.70	65.06	40.32	124.97	6.67
	510.000	2093.05	536.00	3.45	2.96	8.37	3.81	15.67	397.59	122.74	43.40	130.89	6.68
	510.000	2093.27	631.00	3.67	3.17	8.90	4.14	20.02	456.61	154.37	44.77	133.41	6.69
	510.000	2093.65	804.00	4.05	3.49	9.73	4.63	28.74	560.65	214.61	47.04	136.28	6.70

	SECNO	CWSEL	Q	DEPTH	VLOB	VCH	VROB	QLOB	QCH	QROB	TOPWID	10*KS	DIFWSX
	580.000	2097.41	352.00	2.81	4.20	6.56	4.11	69.36	238.24	44.40	38.44	132.10	4.86
	580.000	2097.99	536.00	3.39	4.89	7.46	4.56	125.46	339.13	71.40	42.18	126.79	4.94
	580.000	2098.24	631.00	3.64	5.16	7.81	4.92	155.35	386.63	89.02	43.68	124.00	4.97
	580.000	2098.66	804.00	4.06	5.58	8.37	5.46	211.81	470.09	122.10	46.13	120.55	5.01
	650.000	2102.07	352.00	4.37	.00	5.34	4.69	.00	286.63	65.37	34.66	113.65	4.66
	650.000	2102.65	536.00	4.95	.00	6.21	5.23	.00	442.40	93.60	38.24	119.20	4.66
	650.000	2102.90	631.00	5.20	.00	6.66	5.47	.00	523.57	107.43	38.96	122.54	4.65
	650.000	2103.26	804.00	5.56	1.50	7.36	5.77	10.33	663.59	130.08	61.97	124.87	4.60
	690.000	2105.17	352.00	2.77	4.66	7.30	.00	38.79	313.21	.00	25.60	181.46	3.10
	690.000	2105.79	536.00	3.39	5.36	8.47	.04	67.02	468.97	.00	28.28	182.46	3.14
	690.000	2106.06	631.00	3.66	5.64	9.02	1.28	82.21	548.06	.73	31.21	182.34	3.17
	690.000	2106.46	804.00	4.06	6.18	10.02	2.14	110.51	688.19	5.31	35.47	191.32	3.20
*	700.000	2112.15	352.00	9.75	.64	1.07	.50	65.96	196.38	89.66	97.02	.59	6.98
*	700.000	2115.70	536.00	13.30	.52	.80	.36	97.87	202.74	235.39	247.30	.21	9.91
*	700.000	2116.00	631.00	13.60	.57	.88	.41	113.31	229.37	288.32	250.43	.25	9.94
*	700.000	2116.38	804.00	13.98	.67	1.04	.49	141.46	278.38	384.16	254.38	.33	9.92
	710.000	2112.16	352.00	6.86	.47	.78	.49	20.83	132.54	198.62	163.23	.47	.01
	710.000	2115.70	536.00	10.40	.35	.55	.38	35.93	146.72	353.34	214.69	.13	.00
	710.000	2116.00	631.00	10.70	.39	.62	.42	42.72	169.27	419.01	216.90	.16	.00
	710.000	2116.39	804.00	11.09	.47	.74	.51	55.09	210.50	538.40	219.70	.22	.01
*	800.000	2113.38	352.00	3.28	3.34	7.15	.00	28.37	323.63	.00	38.55	229.89	1.22
*	800.000	2115.65	536.00	5.55	2.12	3.47	1.11	139.68	376.98	19.34	89.07	19.62	-.05
*	800.000	2115.95	631.00	5.85	2.25	3.63	1.24	175.10	425.08	30.82	97.06	19.38	-.05
*	800.000	2116.33	804.00	6.23	2.52	4.02	1.47	237.55	513.75	52.70	107.04	21.18	-.06
*	920.000	2126.42	165.00	1.62	2.86	3.69	1.38	4.32	160.04	.63	61.67	144.63	13.04
*	920.000	2126.47	251.00	1.67	3.95	5.23	2.03	6.39	243.42	1.20	62.03	263.45	10.82
*	920.000	2126.57	296.00	1.77	4.01	5.52	2.24	7.25	286.85	1.91	62.63	252.84	10.62
*	920.000	2126.73	377.00	1.93	4.09	5.93	2.55	8.83	364.55	3.61	63.70	233.17	10.41
*	990.000	2136.14	165.00	1.84	.00	5.75	1.41	.00	164.84	.16	27.98	226.97	9.72
*	990.000	2136.48	251.00	2.18	1.27	6.54	2.13	.63	249.42	.95	32.64	205.26	10.01
*	990.000	2136.66	296.00	2.36	1.69	6.79	2.38	2.21	292.11	1.68	35.19	188.48	10.09
*	990.000	2136.94	377.00	2.64	2.21	7.20	2.72	7.57	366.03	3.39	39.29	169.40	10.20
	1070.000	2143.61	165.00	2.01	.00	5.07	.00	.00	165.00	.00	31.26	138.20	7.47
	1070.000	2143.94	251.00	2.34	.04	5.69	.00	.00	251.00	.00	37.79	147.41	7.46
	1070.000	2144.04	296.00	2.44	.04	6.17	.00	.00	296.00	.00	38.62	158.05	7.39
*	1070.000	2144.24	377.00	2.64	1.46	6.79	.00	.35	376.65	.00	40.19	163.95	7.30
	1170.000	2151.69	165.00	2.89	.00	5.44	4.52	.00	131.24	33.76	21.82	169.08	8.08
	1170.000	2152.21	251.00	3.41	.00	5.99	4.97	.00	199.64	51.36	25.65	164.99	8.27
	1170.000	2152.46	296.00	3.66	.00	6.12	5.08	.00	235.43	60.56	27.55	156.69	8.42
	1170.000	2152.81	377.00	4.01	.04	6.47	5.36	.00	300.01	76.99	30.40	154.04	8.58

	SECNO	CWSEL	Q	DEPTH	VLOB	VCH	VROB	QLOB	QCH	QROB	TOPWID	10*KS	DIFWSX
*	1280.000	2161.76	165.00	1.76	.05	5.48	.00	.00	165.00	.00	34.01	247.76	10.06
	1280.000	2162.14	251.00	2.14	1.57	5.70	1.20	2.80	247.93	.28	43.87	178.23	9.94
	1280.000	2162.26	296.00	2.26	1.94	6.11	1.48	5.30	290.10	.61	46.32	184.70	9.81
	1280.000	2162.47	377.00	2.47	2.39	6.61	1.90	11.90	363.46	1.65	50.85	182.59	9.66
	1360.000	2171.36	165.00	1.76	.00	4.86	.80	.00	164.79	.20	42.00	206.22	9.60
*	1360.000	2171.60	251.00	2.00	.00	5.70	1.52	.00	248.56	2.44	49.54	222.01	9.46
*	1360.000	2171.73	296.00	2.13	.04	5.94	1.79	.00	291.04	4.96	53.90	214.45	9.46
*	1360.000	2171.94	377.00	2.34	1.01	6.27	2.12	.77	364.68	11.55	63.64	190.31	9.47
	1460.000	2182.56	165.00	1.36	2.95	4.23	.00	81.24	83.76	.00	79.09	208.80	11.20
	1460.000	2182.77	251.00	1.57	3.39	4.66	.00	130.78	120.22	.00	84.96	189.30	11.17
	1460.000	2182.85	296.00	1.65	3.63	4.95	.00	156.65	139.35	.00	87.23	193.78	11.13
	1460.000	2182.96	377.00	1.76	4.11	5.53	.00	203.11	173.89	.00	90.31	214.90	11.01
*	1570.000	2196.75	165.00	1.55	2.72	5.44	.00	2.52	162.48	.00	34.20	242.55	14.19
*	1570.000	2197.07	251.00	1.87	3.20	5.96	.00	5.06	245.94	.00	40.25	234.10	14.30
*	1570.000	2197.21	296.00	2.01	3.40	6.21	.00	6.51	289.49	.00	42.70	233.23	14.36
*	1570.000	2197.43	377.00	2.23	3.62	6.62	.00	9.07	367.93	.00	44.60	220.39	14.47
	1660.000	2206.83	165.00	2.03	3.40	6.03	.00	13.56	151.43	.00	23.92	184.57	10.08
*	1660.000	2207.24	251.00	2.44	4.04	6.78	.00	25.10	225.89	.00	28.05	193.75	10.16
	1660.000	2207.48	296.00	2.68	4.40	6.65	.00	34.37	261.63	.00	33.98	197.44	10.27
	1660.000	2207.77	377.00	2.97	4.91	6.85	.00	48.51	328.48	.00	40.84	210.15	10.34
	1750.000	2215.43	165.00	2.43	3.99	4.77	.00	22.14	142.86	.00	34.32	164.00	8.60
	1750.000	2215.80	251.00	2.80	4.23	5.19	.04	31.27	219.73	.00	41.02	152.36	8.57
	1750.000	2215.94	296.00	2.94	4.32	5.53	.87	35.21	260.61	.18	42.29	149.60	8.46
	1750.000	2216.18	377.00	3.18	4.44	6.01	1.35	42.29	333.58	1.13	44.51	141.89	8.41
	1830.000	2223.58	165.00	1.58	.00	4.87	.00	.00	165.00	.00	42.52	234.96	8.15
*	1830.000	2223.82	251.00	1.82	1.15	5.71	.00	.25	250.75	.00	45.71	236.76	8.02
*	1830.000	2223.94	296.00	1.94	1.52	6.00	.00	.78	295.22	.00	47.26	227.66	8.00
*	1830.000	2224.14	377.00	2.14	2.01	6.43	.00	2.63	374.37	.00	49.84	214.53	7.96
*	1920.000	2237.41	165.00	1.51	2.95	5.09	4.47	3.58	141.56	19.85	46.07	277.75	13.84
*	1920.000	2237.67	251.00	1.77	3.29	5.77	4.61	6.97	215.92	28.11	48.04	239.75	13.85
*	1920.000	2237.79	296.00	1.89	3.46	6.09	4.73	9.00	254.31	32.69	48.92	231.00	13.85
*	1920.000	2237.98	377.00	2.08	3.72	6.58	4.90	13.13	322.61	41.26	50.40	217.33	13.84
	2040.000	2250.32	165.00	3.62	.00	6.46	.00	.00	165.00	.00	14.10	160.41	12.91
	2040.000	2250.81	251.00	4.11	.00	7.63	.00	.00	251.00	.00	16.01	188.81	13.14
	2040.000	2251.03	296.00	4.33	.00	8.11	.00	.00	296.00	.00	16.86	199.04	13.24
*	2040.000	2251.39	377.00	4.69	.00	8.82	.00	.00	377.00	.00	18.25	211.82	13.40

W[illegible] SPRINGS WASH, TRI

SUMMARY PRINTOUT TABLE 150

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
	130.000	.00	.00	.00	2043.20	352.00	2045.83	.00	2046.42	241.41	6.17	57.47	22.65
	130.000	.00	.00	.00	2043.20	536.00	2046.32	.00	2047.09	238.91	7.06	76.74	34.68
	130.000	.00	.00	.00	2043.20	631.00	2046.52	.00	2047.39	240.42	7.51	85.07	40.69
	130.000	.00	.00	.00	2043.20	804.00	2046.85	.00	2047.90	238.88	8.25	99.22	52.02
*	50.000	320.00	.00	.00	2053.40	352.00	2055.99	2055.99	2056.78	318.68	7.27	50.22	19.72
*	50.000	320.00	.00	.00	2053.40	536.00	2056.51	2056.51	2057.53	280.05	8.22	68.54	32.03
*	50.000	320.00	.00	.00	2053.40	631.00	2056.76	2056.76	2057.87	264.78	8.61	77.62	38.78
*	50.000	320.00	.00	.00	2053.40	804.00	2057.15	2057.15	2058.44	254.22	9.33	92.25	50.43
	110.000	320.00	.00	.00	2060.30	352.00	2063.39	2063.36	2064.33	181.16	8.12	48.25	26.15
*	110.000	320.00	.00	.00	2060.30	536.00	2064.01	2064.01	2065.24	172.13	9.40	64.99	40.85
*	110.000	320.00	.00	.00	2060.30	631.00	2064.31	2064.31	2065.65	165.21	9.87	73.60	49.09
*	110.000	320.00	.00	.00	2060.30	804.00	2064.80	2064.80	2066.33	156.16	10.62	88.57	64.34
*	200.000	480.00	.00	.00	2066.50	352.00	2069.11	.00	2069.57	73.22	5.53	67.61	41.14
*	200.000	480.00	.00	.00	2066.50	536.00	2069.74	.00	2070.36	72.89	6.49	89.62	62.78
*	200.000	480.00	.00	.00	2066.50	631.00	2070.02	.00	2070.72	73.55	6.92	99.76	73.57
*	200.000	480.00	.00	.00	2066.50	804.00	2070.48	.00	2071.32	74.20	7.60	117.35	93.34
*	300.000	530.00	.00	.00	2074.10	352.00	2077.26	2077.26	2078.29	130.60	8.30	45.17	30.80
*	[illegible]00.000	530.00	.00	.00	2074.10	536.00	2077.96	2077.96	2079.26	116.00	9.37	63.16	49.77
*	[illegible]00.000	530.00	.00	.00	2074.10	631.00	2078.27	2078.27	2079.69	113.08	9.87	71.59	59.34
*	300.000	530.00	.00	.00	2074.10	804.00	2078.85	2078.85	2080.39	101.15	10.40	88.66	79.94
*	410.000	580.00	.00	.00	2083.40	352.00	2085.88	2085.88	2086.60	122.91	7.20	56.56	31.75
*	410.000	580.00	.00	.00	2083.40	536.00	2086.36	2086.36	2087.28	118.24	8.22	76.64	49.29
*	410.000	580.00	.00	.00	2083.40	631.00	2086.59	2086.59	2087.58	116.57	8.66	86.17	58.44
*	410.000	580.00	.00	.00	2083.40	804.00	2086.95	2086.95	2088.09	114.98	9.38	102.33	74.98
	510.000	530.00	.00	.00	2089.60	352.00	2092.55	.00	2093.21	124.97	7.16	63.75	31.49
	510.000	530.00	.00	.00	2089.60	536.00	2093.05	.00	2093.91	130.89	8.37	85.00	46.85
	510.000	530.00	.00	.00	2089.60	631.00	2093.27	.00	2094.23	133.41	8.90	94.95	54.63
	510.000	530.00	.00	.00	2089.60	804.00	2093.65	.00	2094.77	136.28	9.73	112.21	68.87
	580.000	370.00	.00	.00	2094.60	352.00	2097.41	.00	2097.95	132.10	6.56	63.66	30.63
	580.000	370.00	.00	.00	2094.60	536.00	2097.99	.00	2098.66	126.79	7.46	86.81	47.60
	580.000	370.00	.00	.00	2094.60	631.00	2098.24	.00	2098.98	124.00	7.81	97.74	56.66
	580.000	370.00	.00	.00	2094.60	804.00	2098.66	.00	2099.49	120.55	8.37	116.48	73.23
	650.000	370.00	.00	.00	2097.70	352.00	2102.07	.00	2102.49	113.65	5.34	67.58	33.02
	650.000	370.00	.00	.00	2097.70	536.00	2102.65	.00	2103.22	119.20	6.21	89.16	49.09
	650.000	370.00	.00	.00	2097.70	631.00	2102.90	.00	2103.55	122.54	6.66	98.27	57.00
	650.000	370.00	.00	.00	2097.70	804.00	2103.26	.00	2104.04	124.87	7.36	119.52	71.95

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
	690.000	240.00	.00	.00	2102.40	352.00	2105.17	.00	2105.94	181.46	7.30	51.22	26.13
	690.000	240.00	.00	.00	2102.40	536.00	2105.79	.00	2106.82	182.46	8.47	67.90	39.68
	690.000	240.00	.00	.00	2102.40	631.00	2106.06	2105.91	2107.22	182.34	9.02	75.95	46.73
	690.000	240.00	.00	.00	2102.40	804.00	2106.46	2106.45	2107.88	191.32	10.02	89.06	58.13
*	700.000	70.00	.00	.00	2102.40	352.00	2112.15	.00	2112.16	.59	1.07	466.68	457.15
*	700.000	70.00	.00	.00	2102.40	536.00	2115.70	.00	2115.71	.21	.80	1096.29	1166.84
*	700.000	70.00	.00	.00	2102.40	631.00	2116.00	.00	2116.01	.25	.88	1170.96	1262.51
*	700.000	70.00	.00	.00	2102.40	804.00	2116.38	.00	2116.39	.33	1.04	1266.85	1390.80
	710.000	50.00	.00	.00	2105.30	352.00	2112.16	.00	2112.17	.47	.78	616.23	511.90
	710.000	50.00	.00	.00	2105.30	536.00	2115.70	.00	2115.71	.13	.55	1309.33	1469.71
	710.000	50.00	.00	.00	2105.30	631.00	2116.00	.00	2116.01	.16	.62	1374.19	1576.12
	710.000	50.00	.00	.00	2105.30	804.00	2116.39	.00	2116.39	.22	.74	1457.39	1716.43
*	800.000	480.00	.00	.00	2110.10	352.00	2113.38	2113.38	2114.13	229.89	7.15	53.75	23.22
*	800.000	480.00	.00	.00	2110.10	536.00	2115.65	.00	2115.80	19.62	3.47	191.83	121.01
*	800.000	480.00	.00	.00	2110.10	631.00	2115.95	.00	2116.11	19.38	3.63	219.80	143.32
*	800.000	480.00	.00	.00	2110.10	804.00	2116.33	.00	2116.52	21.18	4.02	258.10	174.69
*	920.000	630.00	.00	.00	2124.80	165.00	2126.42	.00	2126.63	144.63	3.69	45.30	13.72
*	920.000	630.00	.00	.00	2124.80	251.00	2126.47	2126.47	2126.89	263.45	5.23	48.75	15.46
*	920.000	630.00	.00	.00	2124.80	296.00	2126.57	2126.57	2127.03	252.84	5.52	54.66	18.62
*	920.000	630.00	.00	.00	2124.80	377.00	2126.73	2126.73	2127.27	233.17	5.93	65.10	24.69
*	990.000	370.00	.00	.00	2134.30	165.00	2136.14	2136.14	2136.65	226.97	5.75	28.78	10.95
*	990.000	370.00	.00	.00	2134.30	251.00	2136.48	2136.48	2137.14	205.26	6.54	39.09	17.52
*	990.000	370.00	.00	.00	2134.30	296.00	2136.66	2136.66	2137.36	188.48	6.79	45.04	21.56
*	990.000	370.00	.00	.00	2134.30	377.00	2136.94	2136.94	2137.72	169.40	7.20	55.54	28.97
	1070.000	420.00	.00	.00	2141.60	165.00	2143.61	.00	2144.01	138.20	5.07	32.54	14.04
	1070.000	420.00	.00	.00	2141.60	251.00	2143.94	.00	2144.44	147.41	5.69	44.12	20.67
	1070.000	420.00	.00	.00	2141.60	296.00	2144.04	2144.00	2144.63	158.05	6.17	48.03	23.54
*	1070.000	420.00	.00	.00	2141.60	377.00	2144.24	2144.24	2144.95	163.95	6.79	55.67	29.44
	1170.000	530.00	.00	.00	2148.80	165.00	2151.69	.00	2152.12	169.08	5.44	31.59	12.69
	1170.000	530.00	.00	.00	2148.80	251.00	2152.21	.00	2152.73	164.99	5.99	43.67	19.54
	1170.000	530.00	.00	.00	2148.80	296.00	2152.46	.00	2153.00	156.69	6.12	50.39	23.65
	1170.000	530.00	.00	.00	2148.80	377.00	2152.81	.00	2153.42	154.04	6.47	60.71	30.38
*	1280.000	580.00	.00	.00	2160.00	165.00	2161.76	2161.76	2162.22	247.76	5.48	30.16	10.48
	1280.000	580.00	.00	.00	2160.00	251.00	2162.14	2162.08	2162.64	178.23	5.70	45.50	18.80
	1280.000	580.00	.00	.00	2160.00	296.00	2162.26	2162.23	2162.83	184.70	6.11	50.64	21.78
	1280.000	580.00	.00	.00	2160.00	377.00	2162.47	2162.46	2163.13	182.59	6.61	60.88	27.90
	1360.000	420.00	.00	.00	2169.60	165.00	2171.36	.00	2171.72	206.22	4.86	34.17	11.49
*	1360.000	420.00	.00	.00	2169.60	251.00	2171.60	2171.60	2172.10	222.01	5.70	45.23	16.85
*	1360.000	420.00	.00	.00	2169.60	296.00	2171.73	2171.73	2172.27	214.45	5.94	51.75	20.21
*	1360.000	420.00	.00	.00	2169.60	377.00	2171.94	2171.94	2172.54	190.31	6.27	64.34	27.33

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
	1460.000	530.00	.00	.00	2181.20	165.00	2182.56	.00	2182.77	208.80	4.23	47.34	11.42
	1460.000	530.00	.00	.00	2181.20	251.00	2182.77	.00	2183.02	189.30	4.66	64.37	18.24
	1460.000	530.00	.00	.00	2181.20	296.00	2182.85	.00	2183.14	193.78	4.95	71.26	21.26
	1460.000	530.00	.00	.00	2181.20	377.00	2182.96	.00	2183.32	214.90	5.53	80.93	25.72
*	1570.000	580.00	.00	.00	2195.20	165.00	2196.75	2196.75	2197.20	242.55	5.44	30.81	10.59
*	1570.000	580.00	.00	.00	2195.20	251.00	2197.07	2197.07	2197.62	234.10	5.96	42.83	16.41
*	1570.000	580.00	.00	.00	2195.20	296.00	2197.21	2197.21	2197.80	233.23	6.21	48.51	19.38
*	1570.000	580.00	.00	.00	2195.20	377.00	2197.43	2197.43	2198.10	220.39	6.62	58.06	25.40
	1660.000	480.00	.00	.00	2204.80	165.00	2206.83	.00	2207.36	184.57	6.03	29.09	12.15
*	1660.000	480.00	.00	.00	2204.80	251.00	2207.24	2207.24	2207.90	193.75	6.78	39.51	18.03
	1660.000	480.00	.00	.00	2204.80	296.00	2207.48	.00	2208.12	197.44	6.65	47.15	21.07
	1660.000	480.00	.00	.00	2204.80	377.00	2207.77	2207.75	2208.45	210.15	6.85	57.80	26.01
	1750.000	480.00	.00	.00	2213.00	165.00	2215.43	.00	2215.76	164.00	4.77	35.51	12.88
	1750.000	480.00	.00	.00	2213.00	251.00	2215.80	.00	2216.20	152.36	5.19	49.75	20.33
	1750.000	480.00	.00	.00	2213.00	296.00	2215.94	.00	2216.39	149.60	5.53	55.48	24.20
	1750.000	480.00	.00	.00	2213.00	377.00	2216.18	.00	2216.71	141.89	6.01	65.90	31.65
	1830.000	420.00	.00	.00	2222.00	165.00	2223.58	.00	2223.95	234.96	4.87	33.86	10.76
*	1830.000	420.00	.00	.00	2222.00	251.00	2223.82	2223.82	2224.32	236.76	5.71	44.14	16.31
*	1830.000	420.00	.00	.00	2222.00	296.00	2223.94	2223.94	2224.50	227.66	6.00	49.75	19.62
*	1830.000	420.00	.00	.00	2222.00	377.00	2224.14	2224.14	2224.78	214.53	6.43	59.52	25.74
*	1920.000	480.00	.00	.00	2235.90	165.00	2237.41	2237.41	2237.80	277.75	5.09	33.45	9.90
*	1920.000	480.00	.00	.00	2235.90	251.00	2237.67	2237.67	2238.16	239.75	5.77	45.63	16.21
*	1920.000	480.00	.00	.00	2235.90	296.00	2237.79	2237.79	2238.33	231.00	6.09	51.26	19.48
*	1920.000	480.00	.00	.00	2235.90	377.00	2237.98	2237.98	2238.61	217.33	6.58	60.99	25.57
	2040.000	630.00	.00	.00	2246.70	165.00	2250.32	.00	2250.97	160.41	6.46	25.54	13.03
	2040.000	630.00	.00	.00	2246.70	251.00	2250.81	.00	2251.71	188.81	7.63	32.91	18.27
	2040.000	630.00	.00	.00	2246.70	296.00	2251.03	2250.96	2252.05	199.04	8.11	36.51	20.98
*	2040.000	630.00	.00	.00	2246.70	377.00	2251.39	2251.39	2252.59	211.82	8.82	42.76	25.90

W[illegible]W SPRINGS WASH, TRI

SUMMARY PRINTOUT TABLE 150

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	130.000	352.00	2045.83	.00	.00	.00	37.69	.00
	130.000	536.00	2046.32	.49	.00	.00	41.00	.00
	130.000	631.00	2046.52	.20	.00	.00	42.11	.00
	130.000	804.00	2046.85	.33	.00	.00	43.69	.00
*	50.000	352.00	2055.99	.00	10.16	.00	33.72	320.00
*	50.000	536.00	2056.51	.53	10.19	.00	35.77	320.00
*	50.000	631.00	2056.76	.25	10.24	.00	36.74	320.00
*	50.000	804.00	2057.15	.39	10.30	.00	38.26	320.00
	110.000	352.00	2063.39	.00	7.41	.00	26.35	320.00
*	110.000	536.00	2064.01	.62	7.50	.00	28.47	320.00
*	110.000	631.00	2064.31	.30	7.54	.00	29.49	320.00
*	110.000	804.00	2064.80	.49	7.65	.00	31.20	320.00
*	200.000	352.00	2069.11	.00	5.72	.00	33.68	480.00
*	200.000	536.00	2069.74	.63	5.73	.00	36.16	480.00
*	200.000	631.00	2070.02	.28	5.71	.00	37.25	480.00
*	200.000	804.00	2070.48	.46	5.68	.00	39.06	480.00
*	300.000	352.00	2077.26	.00	8.14	.00	23.91	530.00
*	300.000	536.00	2077.96	.71	8.22	.00	26.89	530.00
*	300.000	631.00	2078.27	.31	8.25	.00	28.18	530.00
*	300.000	804.00	2078.85	.58	8.37	.00	30.74	530.00
*	410.000	352.00	2085.88	.00	8.62	.00	39.81	580.00
*	410.000	536.00	2086.36	.49	8.40	.00	42.57	580.00
*	410.000	631.00	2086.59	.22	8.31	.00	43.79	580.00
*	410.000	804.00	2086.95	.36	8.10	.00	45.79	580.00
	510.000	352.00	2092.55	.00	6.67	.00	40.32	530.00
	510.000	536.00	2093.05	.50	6.68	.00	43.40	530.00
	510.000	631.00	2093.27	.23	6.69	.00	44.77	530.00
	510.000	804.00	2093.65	.38	6.70	.00	47.04	530.00
	580.000	352.00	2097.41	.00	4.86	.00	38.44	370.00
	580.000	536.00	2097.99	.58	4.94	.00	42.18	370.00
	580.000	631.00	2098.24	.25	4.97	.00	43.68	370.00
	580.000	804.00	2098.66	.42	5.01	.00	46.13	370.00
	650.000	352.00	2102.07	.00	4.66	.00	34.66	370.00
	650.000	536.00	2102.65	.59	4.66	.00	38.24	370.00
	650.000	631.00	2102.90	.24	4.65	.00	38.96	370.00
	650.000	804.00	2103.26	.36	4.60	.00	61.97	370.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	690.000	352.00	2105.17	.00	3.10	.00	25.60	240.00
	690.000	536.00	2105.79	.62	3.14	.00	28.28	240.00
	690.000	631.00	2106.06	.27	3.17	.00	31.21	240.00
	690.000	804.00	2106.46	.40	3.20	.00	35.47	240.00
*	700.000	352.00	2112.15	.00	6.98	.00	97.02	70.00
*	700.000	536.00	2115.70	3.55	9.91	.00	247.30	70.00
*	700.000	631.00	2116.00	.30	9.94	.00	250.43	70.00
*	700.000	804.00	2116.38	.38	9.92	.00	254.38	70.00
	710.000	352.00	2112.16	.00	.01	.00	163.23	50.00
	710.000	536.00	2115.70	3.54	.00	.00	214.69	50.00
	710.000	631.00	2116.00	.30	.00	.00	216.90	50.00
	710.000	804.00	2116.39	.38	.01	.00	219.70	50.00
*	800.000	352.00	2113.38	.00	1.22	.00	38.55	480.00
*	800.000	536.00	2115.65	2.27	-.05	.00	89.07	480.00
*	800.000	631.00	2115.95	.30	-.05	.00	97.06	480.00
*	800.000	804.00	2116.33	.38	-.06	.00	107.04	480.00
*	920.000	165.00	2126.42	.00	13.04	.00	61.67	630.00
*	920.000	251.00	2126.47	.05	10.82	.00	62.03	630.00
*	920.000	296.00	2126.57	.09	10.62	.00	62.63	630.00
*	920.000	377.00	2126.73	.17	10.41	.00	63.70	630.00
*	990.000	165.00	2136.14	.00	9.72	.00	27.98	370.00
*	990.000	251.00	2136.48	.34	10.01	.00	32.64	370.00
*	990.000	296.00	2136.66	.18	10.09	.00	35.19	370.00
*	990.000	377.00	2136.94	.28	10.20	.00	39.29	370.00
	1070.000	165.00	2143.61	.00	7.47	.00	31.26	420.00
	1070.000	251.00	2143.94	.33	7.46	.00	37.79	420.00
	1070.000	296.00	2144.04	.10	7.39	.00	38.62	420.00
*	1070.000	377.00	2144.24	.20	7.30	.00	40.19	420.00
	1170.000	165.00	2151.69	.00	8.08	.00	21.82	530.00
	1170.000	251.00	2152.21	.51	8.27	.00	25.65	530.00
	1170.000	296.00	2152.46	.25	8.42	.00	27.55	530.00
	1170.000	377.00	2152.81	.35	8.58	.00	30.40	530.00
*	1280.000	165.00	2161.76	.00	10.06	.00	34.01	580.00
	1280.000	251.00	2162.14	.39	9.94	.00	43.87	580.00
	1280.000	296.00	2162.26	.12	9.81	.00	46.32	580.00
	1280.000	377.00	2162.47	.21	9.66	.00	50.85	580.00
	1360.000	165.00	2171.36	.00	9.60	.00	42.00	420.00
*	1360.000	251.00	2171.60	.24	9.46	.00	49.54	420.00
*	1360.000	296.00	2171.73	.13	9.46	.00	53.90	420.00
*	1360.000	377.00	2171.94	.21	9.47	.00	63.64	420.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	1460.000	165.00	2182.56	.00	11.20	.00	79.09	530.00
	1460.000	251.00	2182.77	.21	11.17	.00	84.96	530.00
	1460.000	296.00	2182.85	.09	11.13	.00	87.23	530.00
	1460.000	377.00	2182.96	.10	11.01	.00	90.31	530.00
*	1570.000	165.00	2196.75	.00	14.19	.00	34.20	580.00
*	1570.000	251.00	2197.07	.32	14.30	.00	40.25	580.00
*	1570.000	296.00	2197.21	.14	14.36	.00	42.70	580.00
*	1570.000	377.00	2197.43	.22	14.47	.00	44.60	580.00
	1660.000	165.00	2206.83	.00	10.08	.00	23.92	480.00
*	1660.000	251.00	2207.24	.41	10.16	.00	28.05	480.00
	1660.000	296.00	2207.48	.25	10.27	.00	33.98	480.00
	1660.000	377.00	2207.77	.29	10.34	.00	40.84	480.00
	1750.000	165.00	2215.43	.00	8.60	.00	34.32	480.00
	1750.000	251.00	2215.80	.37	8.57	.00	41.02	480.00
	1750.000	296.00	2215.94	.14	8.46	.00	42.29	480.00
	1750.000	377.00	2216.18	.24	8.41	.00	44.51	480.00
	1830.000	165.00	2223.58	.00	8.15	.00	42.52	420.00
*	1830.000	251.00	2223.82	.24	8.02	.00	45.71	420.00
*	1830.000	296.00	2223.94	.12	8.00	.00	47.26	420.00
*	1830.000	377.00	2224.14	.20	7.96	.00	49.84	420.00
*	1920.000	165.00	2237.41	.00	13.84	.00	46.07	480.00
*	1920.000	251.00	2237.67	.26	13.85	.00	48.04	480.00
*	1920.000	296.00	2237.79	.12	13.85	.00	48.92	480.00
*	1920.000	377.00	2237.98	.20	13.84	.00	50.40	480.00
	2040.000	165.00	2250.32	.00	12.91	.00	14.10	630.00
	2040.000	251.00	2250.81	.49	13.14	.00	16.01	630.00
	2040.000	296.00	2251.03	.22	13.24	.00	16.86	630.00
*	2040.000	377.00	2251.39	.36	13.40	.00	18.25	630.00

SUMMARY OF ERRORS AND SPECIAL NOTES

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CAUTION SECNO=     50.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     50.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     50.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     50.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     50.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     50.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     50.000  PROFILE=  3  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     50.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     50.000  PROFILE=  4  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    110.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    110.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    110.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    110.000  PROFILE=  3  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    110.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    110.000  PROFILE=  4  MINIMUM SPECIFIC ENERGY

WARNING SECNO=    200.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    200.000  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    200.000  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    200.000  PROFILE=  4  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=    300.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    300.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    300.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    300.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    300.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    300.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    300.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    300.000  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    300.000  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    300.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    300.000  PROFILE=  4  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    300.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=    410.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    410.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    410.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    410.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    410.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    410.000  PROFILE=  3  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    410.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    410.000  PROFILE=  4  MINIMUM SPECIFIC ENERGY

NOTE    SECNO=    700.000  PROFILE=  1  WSEL BASED ON X5 CARD
WARNING SECNO=    700.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
NOTE    SECNO=    700.000  PROFILE=  2  WSEL BASED ON X5 CARD
WARNING SECNO=    700.000  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
NOTE    SECNO=    700.000  PROFILE=  3  WSEL BASED ON X5 CARD
WARNING SECNO=    700.000  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
NOTE    SECNO=    700.000  PROFILE=  4  WSEL BASED ON X5 CARD
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WARNING SECNO=    700.000  PROFILE=  4  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=    800.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    800.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    800.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
WARNING SECNO=    800.000  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    800.000  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    800.000  PROFILE=  4  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    920.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
CAUTION SECNO=    920.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    920.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    920.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    920.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    920.000  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    920.000  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    920.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    920.000  PROFILE=  4  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    920.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=    990.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    990.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    990.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    990.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    990.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    990.000  PROFILE=  3  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    990.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    990.000  PROFILE=  4  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=   1070.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1070.000  PROFILE=  4  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=   1280.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1280.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=   1360.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1360.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   1360.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1360.000  PROFILE=  3  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   1360.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1360.000  PROFILE=  4  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=   1570.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1570.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   1570.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1570.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   1570.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1570.000  PROFILE=  3  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   1570.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1570.000  PROFILE=  4  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=   1660.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1660.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
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CAUTION SECNO=   1830.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1830.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   1830.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1830.000  PROFILE=  3  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   1830.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1830.000  PROFILE=  4  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=   1920.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1920.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   1920.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1920.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   1920.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1920.000  PROFILE=  3  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   1920.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1920.000  PROFILE=  4  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=   2040.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   2040.000  PROFILE=  4  MINIMUM SPECIFIC ENERGY
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****************************************************
*  WATER SURFACE PROFILES                          *
*  VERSION OF SEPTEMBER 1988                       *
*  ERROR: 01,02,03                                 *
*  UPDATED:  SEPTEMBER 1989                        *
*  RUN DATE     4/ 3/90   TIME   13: 4:46          *
****************************************************
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*************************************
*  U.S. ARMY CORPS OF ENGINEERS
*  THE HYDROLOGIC ENGINEERING CENTER
*  609 SECOND STREET, SUITE D
*  DAVIS, CALIFORNIA 95616-4687
*           (916) 756-1104
*************************************
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X     X  XXXXXXX   XXXXX              XXXXX
X     X  X        X     X            X     X
X     X  X        X                        X
XXXXXXX  XXXX     X          XXXXX    XXXXX
X     X  X        X                  X
X     X  X        X     X            X
X     X  XXXXXXX   XXXXX             XXXXXXX
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END OF BANNER

THIS RUN EXECUTED 4/ 3/90 13: 4:46

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**************************************************
  HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989


  ERROR CORR -  01,02,03
  MODIFICATION -
**************************************************


T1        FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LA027815.H2
T2        100-YR FLOOD FREQUENCY MODEL  (NATURAL CONDITIONS)
T3        WILLOW SPR. TRIB 5

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    NVINS     Q         WSEL      FQ

                2                           .024                                  2046.52

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

     1                  -1


J3  VARIABLE CODES FOR SUMMARY PRINTOUT

    38        43        26         8        42        39         1        34         4        53
    21        22        54         0        38        43         1        50        51        57
    21        22        28         5         3        61       200

J5  LPRNT    NUMSEC                    ********REQUESTED SECTION NUMBERS********

   -10       -10

QT       2       631       631
NC     .06       .06       .05
ET                         4.1     9986.3    10028.2
          THIS ENCROACHMENT MODEL IS BASED ON A PREVIOUS HEC-2 MODEL OF
          NATURAL CONDITIONS.  REFER TO FILE WST5.OUT (CH2M HILL, 1990)

X1     130        15    9988.3   10027.9
GR  2062.6    9913.2    2056.6    9933.9    2056.9    9961.6    2051.5    9979.2    2051.8    9979.4
GR  2044.9    9988.3    2044.3   10000.0    2043.2   10014.3    2045.3   10021.9    2046.4   10027.9
GR  2048.0   10033.5    2052.9   10047.7    2059.2   10063.9    2061.2   10095.3    2061.1   10103.3

ET                         4.1     9984.8    10021.3
X1      50        10    9991.0   10020.0       300       340       320
GR  2072.9    9944.8    2060.0    9976.0    2054.4    9991.0    2053.4   10000.0    2054.4   10007.5
GR  2055.6   10020.0    2063.2   10029.2    2068.0   10041.6    2069.2   10057.0    2069.0   10079.9
```

NC	.05	.05	.04							
ET			4.1	9980.0	10009.3					
X1	110	10	9985.7	10003.8	300	340	320			
GR	2085.7	9935.8	2061.5	9985.7	2061.8	9995.5	2060.7	10000.0	2060.3	10003.8
GR	2068.3	10015.0	2080.3	10039.4	2083.1	10059.9	2084.5	10087.5	2084.5	10090.9
ET			4.1	9984.3	10021.3					
X1	200	9	9989.2	10015.7	520	440	480			
GR	2092.0	9917.0	2083.8	9961.1	2067.0	9989.2	2066.5	10000.0	2066.7	10007.6
GR	2067.5	10015.7	2078.3	10040.1	2084.1	10062.2	2085.5	10082.6		
NC	.045	.045	.035							
ET			4.1	9985.2	10013.1					
X1	300	8	9990.2	10008.2	520	540	530			
GR	2104.0	9929.2	2075.9	9990.2	2074.1	10000.0	2075.8	10008.2	2078.6	10013.9
GR	2088.4	10038.9	2094.5	10060.7	2095.2	10069.3				
ET			4.1	9975.5	10019.1					
X1	410	12	9984.9	10007.3	580	560	580			
GR	2105.1	9922.8	2101.6	9944.8	2092.3	9960.2	2085.3	9978.8	2084.9	9984.9
GR	2083.4	9994.2	2083.9	10000.0	2084.1	10007.3	2085.9	10017.2	2094.3	10041.4
GR	2101.4	10083.7	2101.0	10085.8						
ET			4.1	9985.4	10030.2					
NC	.06	.06	.04							
X1	510	12	9990.0	10006.9	500	560	530			
GR	2108.6	9928.0	2107.6	9952.2	2103.2	9967.7	2090.6	9990.0	2089.6	9998.3
GR	2089.7	10000.0	2091.4	10006.9	2091.2	10012.0	2091.4	10022.0	2098.0	10050.3
GR	2104.4	10077.9	2105.5	10090.1						
ET			4.1	9973.4	10016.9					
NC	.05	.05	.045							
X1	580	15	9991.3	10007.2	390	350	370			
GR	2115.3	9914.1	2111.4	9935.5	2100.2	9965.9	2097.0	9978.0	2096.3	9986.0
GR	2094.7	9991.3	2095.5	9998.1	2095.5	10000.0	2094.6	10007.2	2098.0	10016.5
GR	2106.1	10033.4	2107.0	10057.9	2107.7	10078.6	2114.0	10092.1	2115.6	10127.3
ET			4.1	9978.7	10017.5					
X1	650	17	9978.6	10010.0	350	390	370			
GR	2119.4	9854.2	2116.7	9892.5	2119.1	9904.7	2114.7	9926.7	2103.0	9956.8
GR	2102.9	9978.6	2102.4	9979.4	2100.3	9994.2	2100.1	10000.0	2097.7	10010.0
GR	2108.2	10025.3	2110.4	10048.3	2111.9	10087.9	2113.1	10139.7	2114.1	10188.6
GR	2117.3	10217.4	2120.1	10231.2						
NC				.3	.5					
ET			4.1	10000.1	10020.1					
X1	690	16	10000.0	10020.1	170	190	240			
GR	2122.4	9916.8	2120.4	9920.5	2119.2	9963.6	2114.4	9974.8	2111.6	9980.0
GR	2102.4	10000.0	2102.4	10014.5	2105.7	10020.1	2113.8	10090.3	2113.8	10112.1
GR	2113.4	10171.9	2114.8	10211.8	2118.7	10243.3	2119.5	10256.9	2117.4	10285.3
GR	2117.0	10307.5								

ET			4.1	10000.1	10014.4					
X1	700				70	70	70		1	
X5	2	2116.00	2116.00							
ET			4.1	9989.9	10016.4					
X1	710	23	9989.8	10016.5	50	50	50			
GR	2126.3	9912.6	2122.2	9921.4	2120.3	9930.1	2123.0	9944.7	2120.5	9957.6
GR	2114.6	9972.0	2110.3	9979.8	2105.6	9982.8	2105.3	10000.0	2105.6	10008.8
GR	2107.3	10016.5	2107.8	10036.1	2108.1	10061.9	2109.4	10098.8	2110.8	10122.6
GR	2112.3	10141.4	2113.2	10149.0	2113.4	10160.0	2112.5	10168.3	2116.5	10187.9
GR	2118.8	10208.8	2123.7	10237.6	2130.0	10266.1				
ET			4.1	9982.5	10010.7					
X1	800	13	9982.4	10010.8	490	470	480			
GR	2130.5	9885.0	2120.6	9908.2	2116.7	9931.5	2114.8	9954.5	2112.1	9982.4
GR	2110.1	9986.7	2110.9	9987.0	2111.6	10000.0	2114.1	10010.8	2116.4	10044.1
GR	2118.2	10064.9	2129.0	10097.2	2134.7	10109.8				
QT	2	296	296							
NC	.045	.045	.04							
ET			4.1	9982.2	10039.6					
X1	920	18	9982.1	10039.7	630	640	630			
GR	2158.2	9854.8	2154.3	9934.7	2142.2	9962.0	2124.8	9982.1	2125.3	10000.0
GR	2126.2	10022.1	2126.3	10028.2	2126.0	10039.7	2129.4	10057.6	2130.5	10073.4
GR	2131.0	10105.6	2131.1	10140.0	2129.6	10198.4	2129.3	10242.0	2129.7	10272.1
GR	2132.9	10282.8	2139.2	10309.9	2140.1	10318.5				
ET			4.1	9983.3	10010.9					
X1	990	16	9983.2	10011.0	380	360	370			
GR	2159.7	9860.7	2150.9	9887.7	2140.7	9926.9	2139.2	9945.4	2136.2	9983.2
GR	2134.5	9996.4	2134.3	10000.0	2135.8	10011.0	2141.0	10021.0	2145.2	10035.5
GR	2144.6	10050.0	2144.8	10064.5	2147.2	10084.6	2148.0	10109.9	2150.2	10154.3
GR	2150.0	10162.7								
NC	.045	.045	.035							
ET			4.1	9976.3	10012.9					
X1	1070	16	9976.2	10016.2	400	440	420			
GR	2162.6	9900.6	2160.5	9937.7	2152.4	9954.6	2143.8	9976.2	2143.4	9986.1
GR	2141.9	10000.0	2141.6	10007.5	2143.7	10012.3	2144.4	10016.2	2147.0	10056.4
GR	2148.2	10079.7	2149.2	10123.1	2152.2	10168.1	2156.3	10195.8	2162.8	10220.0
GR	2164.4	10227.3								
NC	.05	.05	.045							
ET			4.1	9980.1	9999.9					
X1	1170	11	9977.0	10000.0	520	540	530			
GR	2166.4	9851.9	2166.0	9866.2	2161.7	9887.7	2158.3	9924.1	2154.2	9953.9
GR	2152.8	9977.0	2148.8	10000.0	2155.7	10012.3	2157.5	10017.0	2166.0	10039.9
GR	2171.2	10056.0								

NC	.05	.05	.04							
ET			4.1	9984.8	10025.6					
X1	1280	17	9984.7	10025.7	600	560	580			
GR	2182.2	9711.3	2179.4	9796.2	2178.3	9849.7	2175.9	9863.7	2171.8	9889.3
GR	2166.8	9925.5	2162.0	9969.7	2161.7	9973.7	2163.9	9984.7	2160.5	9996.4
GR	2160.0	10000.0	2161.8	10025.7	2167.9	10049.3	2172.7	10073.5	2176.0	10097.9
GR	2176.0	10117.1	2182.9	10171.8						
ET			4.1	9978.8	10021.3					
X1	1360	14	9978.7	10021.4	410	430	420			
GR	2185.0	9843.7	2184.8	9878.4	2182.6	9895.7	2173.1	9931.1	2172.5	9958.1
GR	2171.7	9978.7	2169.9	9999.3	2169.6	10000.0	2171.2	10021.4	2174.7	10090.5
GR	2177.1	10122.2	2182.7	10161.3	2186.3	10186.8	2186.1	10200.9		
ET			4.1	9980.1	10007.9					
X1	1460	17	9980.0	10016.2	530	530	530			
GR	2197.0	9828.7	2196.2	9848.4	2194.8	9870.1	2183.7	9903.7	2182.4	9932.7
GR	2181.5	9945.9	2182.5	9980.0	2181.2	10000.0	2183.9	10016.2	2184.7	10023.5
GR	2190.1	10043.3	2195.4	10069.1	2193.2	10083.2	2190.1	10101.5	2196.0	10147.3
GR	2198.2	10178.0	2198.9	10192.4						
ET			4.1	9994.6	10032.9					
X1	1570	15	9994.5	10045.1	580	580	580			
GR	2211.3	9914.6	2212.2	9948.3	2212.0	9964.2	2204.1	9980.4	2195.7	9994.5
GR	2197.2	10000.0	2195.3	10012.1	2195.2	10020.6	2198.7	10045.1	2200.1	10082.0
GR	2200.9	10152.7	2201.0	10159.5	2205.7	10206.4	2210.7	10264.6	2214.5	10309.1
ET			4.1	9992.9	10019.9					
X1	1660	13	9992.9	10035.2	480	480	480			
GR	2222.6	9924.3	2221.7	9949.0	2208.5	9952.8	2205.2	9992.9	2204.8	10000.0
GR	2207.2	10014.1	2208.2	10035.2	2212.6	10051.2	2211.8	10103.2	2214.1	10129.0
GR	2221.3	10162.6	2223.6	10218.7	2224.1	10238.9				
ET			4.1	9984.3	10019.1					
X1	1750	12	9984.2	10019.2	480	480	480			
GR	2232.7	9905.3	2229.7	9947.3	2221.0	9969.1	2213.0	9984.2	2214.7	10000.0
GR	2215.7	10019.2	2220.2	10052.3	2220.2	10059.2	2222.7	10087.8	2226.1	10131.2
GR	2227.0	10173.7	2226.7	10182.2						
NC	.045	.045	.04							
ET			4.1	9975.0	10017.9					
X1	1830	12	9974.9	10022.8	410	430	420			
GR	2238.5	9758.3	2237.2	9857.8	2231.5	9893.1	2231.8	9900.3	2229.3	9923.3
GR	2224.8	9964.1	2223.6	9974.9	2222.5	10000.0	2222.0	10011.7	2224.9	10022.8
GR	2236.2	10047.1	2242.9	10076.9						
ET			4.1	9975.1	10012.1					
X1	1920	12	9975.0	10012.2	480	480	480			
GR	2248.6	9850.6	2246.4	9925.1	2243.7	9948.4	2240.2	9961.7	2236.6	9975.0
GR	2237.0	9995.5	2236.8	10000.0	2235.9	10012.2	2240.3	10029.3	2241.3	10035.7
GR	2247.0	10066.8	2255.3	10114.0						

ET			4.1	9976.1	9989.9					
X1	2040	12	9956.1	9995.6	640	620	630			
GR	2261.7	9830.0	2262.8	9905.6	2262.0	9956.1	2246.7	9982.3	2252.8	9995.6
GR	2258.1	10000.0	2259.9	10008.5	2259.3	10031.6	2257.5	10047.2	2254.5	10088.6
GR	2256.6	10108.8	2267.0	10161.2						

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T1      FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
T2      100-YR FLOOD FREQUENCY MODEL   ENCROACHMENT CONDITIONS
T3      WILLOW SPR, TRIB 5

J1  ICHECK    INO      NINV     IDIR     STRT     WEIRIC   DVIAS    Q        WSEL     FO

                3                                                          2047.52

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLOC    IBW      CHNIM    ITRACE

    15                 -1
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THIS RUN EXECUTED 4/ 3/90 13: 5: 8

****
HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989

ERROR CORR - 01,02,03
MODIFICATION -
****

NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

WILLOW SPR. TRIB 5

SUMMARY PRINTOUT

	SECNO	Q	VCH	DEPTH	ELMIN	XLCH	CWSEL	.01K	TOPWID	SSTA	STCHL	STCHR	ENDST
	130.000	631.00	7.51	3.32	2043.20	.00	2046.52	40.69	42.11	9986.21	9988.30	10027.90	10028.32
	130.000	631.00	5.07	4.32	2043.20	.00	2047.52	78.15	41.90	9986.30	9988.30	10027.90	10028.20
*	50.000	631.00	8.61	3.36	2053.40	320.00	2056.76	38.78	36.74	9984.67	9991.00	10020.00	10021.41
*	50.000	631.00	8.62	3.36	2053.40	320.00	2056.76	38.70	36.50	9984.80	9991.00	10020.00	10021.30
*	110.000	631.00	9.87	4.01	2060.30	320.00	2064.31	49.09	29.49	9979.91	9985.70	10003.80	10009.41
*	110.000	631.00	9.78	4.03	2060.30	320.00	2064.33	49.81	29.30	9980.00	9985.70	10003.80	10009.30
*	200.000	631.00	6.92	3.52	2066.50	400.00	2070.02	73.57	37.25	9984.15	9989.20	10015.70	10021.39
*	200.000	631.00	6.96	3.51	2066.50	400.00	2070.01	72.84	37.00	9984.30	9989.20	10015.70	10021.30
*	300.000	631.00	9.87	4.17	2074.10	530.00	2078.27	59.34	28.18	9985.05	9990.20	10008.20	10013.23
*	300.000	631.00	9.75	4.20	2074.10	530.00	2078.30	60.50	27.90	9985.20	9990.20	10008.20	10013.10
*	410.000	631.00	8.66	3.19	2083.40	580.00	2086.59	58.44	43.79	9975.38	9984.90	10007.30	10019.17
*	410.000	631.00	8.67	3.18	2083.40	580.00	2086.58	58.35	43.60	9975.50	9984.90	10007.30	10019.10
	510.000	631.00	8.90	3.67	2089.60	530.00	2093.27	54.63	44.77	9985.27	9990.00	10006.90	10030.03
	510.000	631.00	8.89	3.68	2089.60	530.00	2093.28	54.72	44.64	9985.40	9990.00	10006.90	10030.04
	580.000	631.00	7.81	3.64	2094.60	370.00	2098.24	56.66	43.68	9973.31	9991.30	10007.20	10017.00
	580.000	631.00	7.82	3.64	2094.60	370.00	2098.24	56.58	43.50	9973.40	9991.30	10007.20	10016.90
	650.000	631.00	6.66	5.20	2097.70	370.00	2102.90	57.00	38.96	9978.61	9978.60	10010.00	10017.57
	650.000	631.00	6.65	5.19	2097.70	370.00	2102.89	57.15	38.80	9978.70	9978.60	10010.00	10017.50
	690.000	631.00	8.90	3.57	2102.40	240.00	2105.97	48.46	30.21	9992.24	10000.00	10020.10	10022.45
	690.000	631.00	9.28	3.86	2102.40	240.00	2106.26	43.39	20.00	10000.10	10000.00	10020.10	10020.10
*	700.000	631.00	1.10	12.60	2103.40	20.00	2116.00	975.72	240.02	9973.40	10000.00	10020.10	10213.42
*	700.000	631.00	3.50	12.60	2103.40	70.00	2116.00	163.66	14.30	10000.10	10000.00	10020.10	10014.40

	SECNO	Q	VCH	DEPTH	ELMIN	XLCH	CWSEL	.01K	TOPWID	SSTA	STCHL	STCHR	ENDST
*	710.000	631.00	.62	10.71	2105.30	50.00	2116.01	1578.24	216.94	9968.56	9989.80	10016.50	10185.50
*	710.000	631.00	2.29	10.88	2105.30	50.00	2116.18	300.66	26.50	9989.90	9989.80	10016.50	10016.40
*	800.000	631.00	3.62	5.86	2110.10	480.00	2115.96	143.82	97.23	9940.48	9982.40	10010.80	10037.71
*	800.000	631.00	4.77	6.41	2110.10	480.00	2116.51	103.34	28.20	9982.50	9982.40	10010.80	10010.70
*	920.000	296.00	5.52	1.77	2124.80	630.00	2126.57	18.61	62.63	9980.06	9982.10	10039.70	10042.69
*	920.000	296.00	5.51	1.80	2124.80	630.00	2126.60	18.55	57.40	9982.20	9982.10	10039.70	10039.60
*	990.000	296.00	6.79	2.36	2134.30	370.00	2136.66	21.58	35.20	9977.44	9983.20	10011.00	10012.65
*	990.000	296.00	7.06	2.32	2134.30	370.00	2136.62	19.86	27.60	9983.30	9983.20	10011.00	10010.90
	1070.000	296.00	6.18	2.44	2141.60	420.00	2144.04	23.52	38.62	9975.59	9976.20	10016.20	10014.21
	1070.000	296.00	5.95	2.50	2141.60	420.00	2144.10	25.40	36.60	9976.30	9976.20	10016.20	10012.90
	1170.000	296.00	6.12	3.66	2148.80	530.00	2152.46	23.67	27.56	9978.96	9977.00	10000.00	10006.52
	1170.000	296.00	6.87	3.92	2148.80	530.00	2152.72	20.76	19.80	9980.10	9977.00	10000.00	9999.90
	1280.000	296.00	6.11	2.26	2160.00	580.00	2162.26	21.76	46.30	9967.32	9984.70	10025.70	10027.47
	1280.000	296.00	5.49	2.44	2160.00	580.00	2162.44	25.81	35.88	9989.72	9984.70	10025.70	10025.60
*	1360.000	296.00	5.94	2.13	2169.60	420.00	2171.73	20.21	53.89	9977.95	9978.70	10021.40	10031.85
*	1360.000	296.00	6.16	2.11	2169.60	420.00	2171.71	19.17	42.50	9978.80	9978.70	10021.40	10021.30
	1460.000	296.00	4.95	1.66	2181.20	530.00	2182.86	21.26	87.23	9922.67	9980.00	10016.20	10009.90
	1460.000	296.00	6.85	2.20	2181.20	530.00	2183.40	20.57	27.80	9980.10	9980.00	10016.20	10007.90
*	1570.000	296.00	6.22	2.01	2195.20	580.00	2197.21	19.35	42.69	9991.97	9994.50	10045.10	10034.66
*	1570.000	296.00	6.35	2.02	2195.20	580.00	2197.22	19.02	38.30	9994.60	9994.50	10045.10	10032.90
	1660.000	296.00	6.64	2.68	2204.80	480.00	2207.48	21.09	34.03	9986.05	9992.90	10035.20	10020.08
	1660.000	296.00	6.83	2.84	2204.80	480.00	2207.64	21.08	26.10	9992.90	9992.90	10035.20	10019.00
	1750.000	296.00	5.53	2.94	2213.00	480.00	2215.94	24.17	42.28	9978.66	9984.20	10019.20	10020.94
	1750.000	296.00	5.60	3.11	2213.00	480.00	2216.11	24.31	34.80	9984.30	9984.20	10019.20	10019.10
*	1830.000	296.00	6.00	1.94	2222.00	420.00	2223.94	19.61	47.26	9971.86	9974.90	10022.80	10019.12
*	1830.000	296.00	6.13	1.92	2222.00	420.00	2223.92	19.17	42.90	9975.00	9974.90	10022.80	10017.90
*	1920.000	296.00	6.09	1.89	2235.90	480.00	2237.79	19.51	48.92	9970.61	9975.00	10012.20	10019.54
*	1920.000	296.00	6.43	2.01	2235.90	480.00	2237.91	18.65	37.00	9975.10	9975.00	10012.20	10012.10
	2040.000	296.00	8.12	4.32	2246.70	630.00	2251.02	20.95	16.85	9974.89	9956.10	9995.60	9991.74
	2040.000	296.00	8.20	4.39	2246.70	630.00	2251.09	21.97	13.80	9976.10	9956.10	9995.60	9989.90

LOW SPR. TRIB 5

SUMMARY PRINTOUT

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	ALPHA	STCHL	STCHR	STENCR	10*KS	EG	DIFEG
	130.000	631.00	2046.52	.00	.00	1.02	9988.30	10027.90	.00	240.42	2047.39	.00
	130.000	631.00	2047.52	1.00	.00	1.02	9988.30	10027.90	10028.20	65.19	2047.91	.52
*	50.000	631.00	2056.76	.00	10.24	1.08	9991.80	10020.00	.00	264.78	2057.87	.00
*	50.000	631.00	2056.76	-.00	9.24	1.07	9991.80	10020.00	10021.30	265.87	2057.87	-.00
*	110.000	631.00	2064.31	.00	7.54	1.18	9985.70	10003.80	.00	165.21	2065.65	.00
*	110.000	631.00	2064.33	.02	7.57	1.17	9985.70	10003.80	10009.30	160.50	2065.65	-.00
*	200.000	631.00	2070.02	.00	5.71	1.13	9989.20	10015.70	.00	73.55	2070.72	.00
*	200.000	631.00	2070.01	-.01	5.68	1.13	9989.20	10015.70	10021.30	75.04	2070.72	-.00
*	300.000	631.00	2078.27	.00	8.25	1.18	9990.20	10008.20	.00	113.08	2079.69	.00
*	300.000	631.00	2078.30	.03	8.29	1.17	9990.20	10008.20	10013.10	108.78	2079.69	-.00
*	410.000	631.00	2086.59	.00	8.31	1.20	9986.90	10007.30	.00	116.57	2087.58	.00
*	410.000	631.00	2086.58	-.00	8.28	1.20	9986.90	10007.30	10019.10	116.96	2087.58	.00
	510.000	631.00	2093.27	.00	6.69	1.40	9990.00	10006.90	.00	133.41	2094.23	.00
	510.000	631.00	2093.28	.00	6.69	1.40	9990.00	10006.90	10030.20	132.96	2094.23	.00
	580.000	631.00	2098.24	.00	4.97	1.14	9991.30	10007.20	.00	124.00	2098.98	.00
	580.000	631.00	2098.24	-.00	4.96	1.14	9991.30	10007.20	10016.90	124.38	2098.98	.00
	650.000	631.00	2102.90	.00	4.65	1.02	9978.60	10010.00	.00	122.54	2103.55	.00
	650.000	631.00	2102.89	-.00	4.65	1.02	9978.60	10010.00	10017.50	121.91	2103.54	-.01
	690.000	631.00	2105.97	.00	3.07	1.08	10000.00	10020.10	.00	169.55	2107.11	.00
	690.000	631.00	2106.26	.29	3.37	1.00	10000.00	10020.10	10020.10	211.46	2107.60	.49
*	700.000	631.00	2116.00	.00	10.03	1.49	10000.00	10020.10	.00	.42	2116.01	.00
*	700.000	631.00	2116.00	.00	9.74	1.00	10000.00	10020.10	10014.40	14.87	2116.19	.18
*	710.000	631.00	2116.01	.00	.01	1.10	9989.80	10016.50	.00	.16	2116.01	.00
*	710.000	631.00	2116.18	.17	.18	1.00	9989.80	10016.50	10016.40	4.40	2116.26	.25
*	800.000	631.00	2115.96	.00	-.05	1.26	9989.40	10010.80	.00	19.25	2116.12	.00
*	800.000	631.00	2116.51	.55	.33	1.00	9989.40	10010.80	10010.70	37.28	2116.86	.75
*	920.000	296.00	2126.57	.00	10.63	1.07	9982.10	10039.70	.00	253.06	2127.03	.00
*	920.000	296.00	2126.60	.03	10.09	1.00	9982.10	10039.70	10039.60	254.69	2127.07	.04
*	990.000	296.00	2136.66	.00	10.09	1.05	9983.20	10011.00	.00	188.17	2137.36	.00
*	990.000	296.00	2136.62	-.04	10.02	1.00	9983.20	10011.00	10010.90	222.03	2137.40	.03
	1070.000	296.00	2144.04	.00	7.38	1.00	9976.20	10016.20	.00	158.34	2144.63	.00
	1070.000	296.00	2144.10	.06	7.48	1.00	9976.20	10016.20	10012.90	135.78	2144.65	.01

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	ALPHA	STCGR	STCHR	STENCR	10*KS	EG	DIFEG
	1170.000	296.00	2152.46	.00	8.42	1.02	9977.00	10000.00	.00	156.37	2153.00	.00
	1170.000	296.00	2152.72	.26	8.63	1.00	9977.00	10000.00	9999.90	203.37	2153.46	.45
	1280.000	296.00	2162.26	.00	9.30	1.07	9984.70	10025.70	.00	185.03	2162.83	.00
	1280.000	296.00	2162.44	.18	9.72	1.00	9984.70	10025.70	10025.60	131.54	2162.91	.08
*	1360.000	296.00	2171.73	.00	9.47	1.06	9978.70	10021.40	.00	214.61	2172.27	.00
*	1360.000	296.00	2171.71	-.02	9.27	1.00	9978.70	10021.40	10021.30	238.37	2172.30	.03
	1460.000	296.00	2182.86	.00	11.13	1.07	9989.00	10016.20	.00	193.78	2183.15	.00
	1460.000	296.00	2183.40	.54	11.69	1.00	9980.00	10016.20	10007.90	207.12	2184.13	.98
*	1570.000	296.00	2197.21	.00	14.35	1.02	9994.50	10045.10	.00	234.00	2197.80	.00
*	1570.000	296.00	2197.22	.01	13.82	1.00	9994.50	10045.10	10032.90	242.27	2197.85	.05
	1660.000	296.00	2207.48	.00	10.27	1.05	9992.90	10035.20	.00	196.90	2208.12	.00
	1660.000	296.00	2207.64	.15	10.41	1.00	9992.90	10035.20	10019.00	197.19	2208.36	.24
	1750.000	296.00	2215.94	.00	8.45	1.02	9984.20	10019.20	.00	149.95	2216.39	.00
	1750.000	296.00	2216.11	.17	8.47	1.00	9984.20	10019.20	10019.10	148.25	2216.60	.21
*	1830.000	296.00	2223.94	.00	8.00	1.01	9974.90	10022.80	.00	227.82	2224.50	.00
*	1830.000	296.00	2223.92	-.02	7.81	1.00	9974.90	10022.80	10017.90	238.39	2224.50	.01
*	1920.000	296.00	2237.79	.00	13.85	1.06	9975.00	10012.20	.00	230.16	2238.33	.00
*	1920.000	296.00	2237.91	.12	13.99	1.00	9975.00	10012.20	10012.10	251.85	2238.55	.23
	2040.000	296.00	2251.02	.00	13.24	1.00	9956.10	9995.60	.00	199.64	2252.05	.00
	2040.000	296.00	2251.09	.06	13.18	1.00	9956.10	9995.60	9989.90	181.46	2252.13	.08

SUMMARY OF ERRORS AND SPECIAL NOTES

```
CAUTION SECNO=     50.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     50.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     50.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     50.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     50.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=    110.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    110.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    110.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    110.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

WARNING SECNO=    200.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    200.000  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=    300.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    300.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    300.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    300.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    300.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    300.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=    410.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    410.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    410.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    410.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

NOTE    SECNO=    700.000  PROFILE=  1  WSEL BASED ON X5 CARD
WARNING SECNO=    700.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
NOTE    SECNO=    700.000  PROFILE=  2  WSEL BASED ON X5 CARD
WARNING SECNO=    700.000  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    710.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    710.000  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    800.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    800.000  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=    920.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    920.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    920.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    920.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    920.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    920.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=    990.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    990.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    990.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    990.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=   1360.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1360.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
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CAUTION SECNO=   1360.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1360.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=   1570.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1570.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   1570.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1570.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=   1830.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1830.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   1830.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1830.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=   1920.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1920.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   1920.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1920.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
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FLOODWAY DATA, WILLOW SPR. TRIB 5
PROFILE NO. 2

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WATER SURFACE ELEVATION WITHOUT FLOODWAY	WATER SURFACE ELEVATION DIFFERENCE
130.000	42.	127.	5.0	2047.5	2046.5	1.0
50.000	36.	77.	8.1	2056.8	2056.8	.0
110.000	29.	74.	8.5	2064.3	2064.3	.0
200.000	37.	99.	6.4	2070.0	2070.0	.0
300.000	28.	73.	8.7	2078.3	2078.3	.0
410.000	44.	86.	7.3	2086.6	2086.6	.0
510.000	45.	95.	6.6	2093.3	2093.3	.0
580.000	43.	98.	6.5	2098.2	2098.2	.0
650.000	39.	98.	6.4	2102.9	2102.9	.0
690.000	20.	68.	9.3	2106.3	2106.0	.3
700.000	14.	180.	3.5	2116.0	2116.0	.0
710.000	26.	276.	2.3	2116.2	2116.0	.2
800.000	28.	132.	4.8	2116.5	2116.0	.5
920.000	57.	54.	5.5	2126.6	2126.6	.0
990.000	28.	42.	7.1	2136.6	2136.7	.1
1070.000	37.	50.	5.9	2144.1	2144.0	.1
1170.000	20.	43.	6.9	2152.7	2152.5	.2
1280.000	36.	54.	5.5	2162.4	2162.3	.1
[illegible]0.000	42.	48.	6.2	2171.7	2171.7	.0
[illegible]60.000	28.	43.	6.9	2183.4	2182.9	.5
1570.000	38.	47.	6.3	2197.2	2197.2	.0
1660.000	26.	43.	6.8	2207.6	2207.5	.1
1750.000	35.	53.	5.6	2216.1	2215.9	.2
1830.000	43.	48.	6.1	2223.9	2223.9	.0
1920.000	37.	46.	6.4	2237.9	2237.8	.1
2040.000	14.	36.	8.2	2251.1	2251.0	.1

```
*****************************************************
*  WATER SURFACE PROFILES                           *
*  VERSION OF SEPTEMBER 1988                        *
*  ERROR: 01,02,03                                  *
*  UPDATED:  SEPTEMBER 1989                         *
*  RUN DATE     2/26/90    TIME    16:33:49         *
*****************************************************
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****************************************
*  U.S. ARMY CORPS OF ENGINEERS
*  THE HYDROLOGIC ENGINEERING CENTER
*  609 SECOND STREET, SUITE D
*  DAVIS, CALIFORNIA 95616-4687
*           (916) 756-1104
****************************************
```

WST5A.OUT

100 YR CWSEL 2-27-90 DES

```
X     X  XXXXXXX   XXXXX              XXXXX
X     X  X       X     X            X     X
X     X  X       X                        X
XXXXXXX  XXXX     X         XXXXX    XXXXX
X     X  X       X                  X
X     X  X       X     X            X
X     X  XXXXXXX   XXXXX             XXXXXXX
```

END OF BANNER

THIS RUN EXECUTED 2/26/90 16:33:49

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**************************************************
  HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989


  ERROR CORR -  01,02,03
  MODIFICATION -
**************************************************



T1      FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LA027815.H2
T2      10-YR FLOOD FREQUENCY MODEL
T3      WILLOW SPR TRIB. 5A     (WST5A.DAT)


J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

              2                           .015                                    2112.24

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

    1                   -1


J3  VARIABLE CODES FOR SUMMARY PRINTOUT

    38        1         43        8         55        26        56        13        14        15
     4        5         51
   150


QT       4        81       123       145       185

NC     .05       .05       .04        .1        .3

       ****REVISED STREAMFLOWS FROM CVCRK43R.OUT*********
         COMMON SECTION IS SEC. 800 FROM WILLOW SPR. WASH TRIB.5.
         SEC. 000 = SEC. 0.82 OF WILLOW SPR. WASH TRIB. 5.
         FLOW VALUES ARE FROM CH2M HILL HEC-1
         QT VALUES ARE 23% OF SUBWTRSHD 'F3'
X1     800        13     9982.4    10010.8
GR   2130.5    9885.0    2120.6    9908.2    2116.7    9931.5    2114.8    9954.5    2112.1    9982.4
GR   2110.1    9986.7    2110.9    9987.0    2111.6   10000.0    2114.1   10010.8    2116.4   10044.1
GR   2118.2   10064.9    2129.0   10097.2    2134.7   10109.8
```

X1	130	15	9995.4	10012.1	790	790	790			
GR	2150.9	9908.2	2150.6	9928.2	2143.0	9946.5	2134.9	9970.2	2133.7	9977.5
GR	2132.4	9995.4	2131.5	10000.0	2132.4	10012.1	2133.0	10023.3	2133.8	10049.5
GR	2133.7	10080.1	2135.8	10107.0	2139.6	10128.1	2151.7	10166.7	2152.7	10168.7
X1	190	11	9976.0	10000.0	340	310	320			
GR	2161.1	9889.2	2152.4	9912.7	2145.8	9936.5	2142.2	9960.8	2142.9	9976.0
GR	2139.8	9991.4	2140.7	10000.0	2146.5	10018.1	2152.4	10039.3	2155.9	10065.1
GR	2158.6	10096.5								
X1	270	14	9975.8	10000.0	410	430	420			
GR	2172.0	9883.2	2170.6	9898.9	2162.8	9923.4	2159.1	9946.3	2155.7	9967.4
GR	2155.0	9975.8	2150.0	9998.8	2151.2	10000.0	2154.1	10019.7	2157.4	10039.5
GR	2162.3	10065.7	2170.6	10092.4	2171.4	10127.3	2172.2	10134.5		
X1	360	11	9996.6	10019.2	500	460	480			
GR	2180.0	9844.0	2174.5	9886.5	2168.7	9932.6	2165.5	9967.9	2165.0	9977.9
GR	2164.3	9996.6	2161.7	10000.0	2164.6	10019.2	2165.2	10019.6	2180.1	10072.2
GR	2179.8	10127.3								
	440	17	9981.6	10021.8	410	430	420			
	2195.9	9810.1	2190.1	9850.0	2187.5	9864.7	2189.1	9890.7	2190.6	9929.4
GR	2188.3	9947.8	2183.3	9954.7	2173.6	9981.6	2172.2	10000.0	2175.4	10021.8
GR	2177.6	10084.3	2178.3	10107.0	2183.5	10137.4	2185.6	10159.8	2186.4	10191.1
GR	2190.2	10224.1	2191.1	10253.0						
NC	.045	.045	.04							
X1	530	13	9976.2	10018.4	480	480	480			
GR	2202.9	9869.4	2201.8	9899.4	2194.7	9922.5	2187.3	9949.0	2183.9	9976.2
GR	2184.5	9981.6	2184.1	10000.0	2185.2	10018.4	2186.6	10041.5	2196.6	10095.3
GR	2200.1	10148.0	2202.3	10191.5	2204.2	10217.7				
X1	600	11	9985.1	10014.3	370	370	370			
GR	2211.6	9872.5	2209.1	9905.2	2203.7	9937.6	2198.0	9964.5	2195.6	9985.1
GR	2192.1	9997.5	2192.2	10000.0	2193.3	10014.3	2195.0	10041.6	2198.4	10071.1
GR	2206.2	10116.7								

```
 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*PROF 1

CCHV=     .100 CEHV=     .300
*SECNO 800.000
       ****REVISED STREAMFLOWS FROM CVCRK43R.OUT*********
         COMMON SECTION IS SEC. 800 FROM WILLOW SPR. WASH TRIB.5.
         SEC. 000 = SEC. 0.82 OF WILLOW SPR. WASH TRIB. 5.
         FLOW VALUES ARE FROM CH2M HILL HEC-1
         QT VALUES ARE 23% OF SUBWTRSHD 'F3'
  800.000     2.14  2112.24      .00  2112.24  2112.52      .28      .00      .00  2112.10
     81.       0.      81.       0.       0.      19.       0.       0.       0.   2114.10
     .00      .62     4.22      .00     .050     .040     .000     .000  2110.10  9980.96
  .014987      0.       0.       0.        0        0        0      .00    21.81 10002.76


*SECNO 130.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  130.000     1.37  2132.87  2132.87      .00  2133.22      .35    13.51      .02  2132.40
     81.       2.      75.       3.       2.      15.       2.       0.       0.   2132.40
     .05     1.58     4.91     1.59     .050     .040     .050     .000  2131.50  9988.94
  .019698     790.     790.     790.        4       14        0      .00    31.93 10020.86


*SECNO 190.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  190.000     1.51  2141.31  2141.31      .00  2141.76      .44     6.92      .03  2142.90
     81.       0.      80.       1.       0.      15.       1.       0.       1.   2140.70
     .06      .00     5.38     2.02     .000     .040     .050     .000  2139.80  9983.88
  .023829     340.     320.     310.        4        8        0      .00    18.03 10001.91


*SECNO 270.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  270.000     2.16  2152.16  2152.16      .00  2152.63      .47     9.66      .01  2155.00
     81.       0.      73.       8.       0.      13.       3.       1.       1.   2151.20
     .09      .00     5.76     2.69     .000     .040     .050     .000  2150.00  9988.86
  .022141     410.     420.     430.        3       14        0      .00    17.66 10006.52
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:CNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 360.000

360.000	1.91	2163.61	2163.61	.00	2164.10	.49	11.46	.00	2164.30
81.	0.	81.	0.	0.	14.	0.	1.	1.	2164.60
.11	.00	5.61	.00	.000	.040	.000	.000	2161.70	9997.50
.025945	500.	480.	460.	6	15	0	.00	15.13	10012.64

*SECNO 440.000

440.000	1.40	2173.60	.00	.00	2173.87	.27	9.75	.02	2173.60
81.	0.	81.	0.	0.	19.	0.	1.	1.	2175.40
.14	.00	4.20	.00	.000	.040	.000	.000	2172.20	9981.73
.020904	410.	420.	430.	5	0	0	.00	27.74	10009.47

*SECNO 530.000

530.000	.95	2184.85	.00	.00	2185.07	.21	11.19	.01	2183.90
81.	12.	69.	0.	4.	18.	0.	1.	2.	2185.20
.17	3.23	3.80	.00	.045	.040	.000	.000	2183.90	9968.61
.026149	480.	480.	480.	3	0	0	.00	43.91	10012.52

*SECNO 600.000

600.000	1.39	2193.49	.00	.00	2193.83	.33	8.72	.04	2195.60
81.	0.	81.	0.	0.	17.	0.	1.	2.	2193.30
.19	.00	4.64	1.01	.000	.040	.045	.000	2192.10	9992.57
.021368	370.	370.	370.	5	0	0	.00	24.79	10017.37

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     FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LA027815.H2
T2   50-YR FLOOD FREQUENCY MODEL
T3   WILLOW SPR. TRIB. 5A     (WST5A.DAT)

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

              3                         .015                                2112.52

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

    2                  -1
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   CNO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
  Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
  SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*PROF 2

CCHV=     .100 CEHV=     .300
*SECNO 800.000
        ****REVISED STREAMFLOWS FROM CVCRK43R.OUT*********
          COMMON SECTION IS SEC. 800 FROM WILLOW SPR. WASH TRIB.5.
          SEC. 000 = SEC. 0.82 OF WILLOW SPR. WASH TRIB. 5.
          FLOW VALUES ARE FROM CH2M HILL HEC-1
          QT VALUES ARE 23% OF SUBWTRSHD 'F3'
  800.000     2.42  2112.52      .00  2112.52  2112.88      .36      .00      .00  2112.10
     123.       1.     122.       0.       1.      25.       0.       0.       0.   2114.10
      .00     1.28     4.86      .00     .050     .040     .000     .000  2110.10  9978.06
  .015026       0.       0.       0.        0        0        0      .00    25.91 10003.97


*SECNO 130.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  130.000     1.64  2133.14  2133.14      .00  2133.52      .38    12.38      .01  2132.40
     123.       7.     105.      11.       4.      20.       5.       0.       1.   2132.40
      .05     1.95     5.30     2.09     .050     .040     .050     .000  2131.50  9985.27
  .016369     790.     790.     790.        4       19        0      .00    42.47 10027.74


*SECNO 190.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  190.000     1.82  2141.62  2141.62      .00  2142.16      .54     6.04      .05  2142.90
     123.       0.     120.       3.       0.      20.       1.       1.       1.   2140.70
      .06      .00     5.95     2.55     .000     .040     .050     .000  2139.80  9982.34
  .022006     340.     320.     310.        3        8        0      .00    20.55 10002.88


*SECNO 270.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  270.000     2.52  2152.52  2152.52      .00  2153.04      .53     8.96      .00  2155.00
     123.       0.     104.      19.       0.      17.       6.       1.       1.   2151.20
      .08      .00     6.17     3.21     .000     .040     .050     .000  2150.00  9987.22
  .020610     410.     420.     430.        9       11        0      .00    21.72 10008.94
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 360.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

360.000	2.25	2163.95	2163.95	.00	2164.53	.58	10.77	.02	2164.30
123.	0.	123.	0.	0.	20.	0.	1.	1.	2164.60
.10	.00	6.11	.00	.000	.040	.000	.000	2161.70	9997.05
.024680	500.	480.	460.	9	15	0	.00	17.87	10014.92

*SECNO 440.000

440.000	1.60	2173.80	.00	.00	2174.17	.37	9.61	.02	2173.60
123.	0.	123.	0.	0.	25.	0.	1.	2.	2175.40
.13	.04	4.88	.00	.050	.040	.000	.000	2172.20	9981.05
.021279	410.	420.	430.	4	0	0	.00	29.83	10010.88

*SECNO 530.000

530.000	1.11	2185.01	.00	.00	2185.29	.28	11.11	.01	2183.90
123.	17.	106.	0.	5.	24.	0.	2.	2.	2185.20
.16	3.53	4.32	.00	.045	.040	.000	.000	2183.90	9967.30
.5294	480.	480.	480.	5	0	0	.00	47.95	10015.26

*SECNO 600.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

600.000	1.61	2193.71	2193.71	.00	2194.16	.45	8.72	.05	2195.60
123.	0.	121.	2.	0.	22.	1.	2.	2.	2193.30
.18	.00	5.43	1.70	.000	.040	.045	.000	2192.10	9991.79
.022005	370.	370.	370.	4	14	0	.00	29.11	10020.90

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     FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LA027815.H2
T2   100-YR FLOOD FREQUENCY MODEL
T3   WILLOW SPR. TRIB. 5A     (WST5A.DAT)

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

              4                         .015                                2112.65

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

    3                  -1
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 CNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 *      QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*PROF 3

CCHV=     .100 CEHV=     .300
*SECNO 800.000
        ****REVISED STREAMFLOWS FROM CVCRK43R.OUT*********
          COMMON SECTION IS SEC. 800 FROM WILLOW SPR. WASH TRIB.5.
          SEC. 000 = SEC. 0.82 OF WILLOW SPR. WASH TRIB. 5.
          FLOW VALUES ARE FROM CH2M HILL HEC-1
          QT VALUES ARE 23% OF SUBWTRSHD 'F3'
  800.000     2.55  2112.65      .00  2112.65  2113.05      .40      .00      .00  2112.10
     145.       2.     143.       0.       2.      28.       0.       0.       0.   2114.10
      .00     1.53     5.11      .00     .050     .040     .000     .000  2110.10  9976.72
  .014885       0.       0.       0.        0        0        0      .00    27.82 10004.54


*SECNO 130.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  130.000     1.74  2133.24  2133.24      .00  2133.64      .40    12.09      .00  2132.40
     145.      10.     119.      16.       5.      22.       7.       1.       1.   2132.40
      .04     2.09     5.51     2.26     .050     .040     .050     .000  2131.50  9983.80
  .015752     790.     790.     790.        3       19        0      .00    47.44 10031.24


*SECNO 190.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  190.000     1.97  2141.77  2141.77      .00  2142.34      .58     5.82      .05  2142.90
     145.       0.     140.       5.       0.      23.       2.       1.       1.   2140.70
      .06      .00     6.18     2.76     .000     .040     .050     .000  2139.80  9981.62
  .021275     340.     320.     310.        3        8        0      .00    21.71 10003.33


*SECNO 270.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  270.000     2.66  2152.66  2152.66      .00  2153.22      .56     8.80      .00  2155.00
     145.       0.     120.      25.       0.      19.       7.       1.       1.   2151.20
      .08      .00     6.40     3.43     .000     .040     .050     .000  2150.00  9986.56
  .020546     410.     420.     430.       11       11        0      .00    23.36 10009.92
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CNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 360.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

360.000	2.41	2164.11	2164.11	.00	2164.73	.62	10.63	.02	2164.30
145.	0.	145.	0.	0.	23.	0.	1.	1.	2164.60
.10	.00	6.31	.00	.000	.040	.000	.000	2161.70	9996.85
.024131	500.	480.	460.	9	15	0	.00	19.08	10015.94

*SECNO 440.000

440.000	1.69	2173.89	.00	.00	2174.31	.42	9.56	.02	2173.60
145.	0.	145.	0.	0.	28.	0.	2.	2.	2175.40
.12	1.15	5.19	.00	.050	.040	.000	.000	2172.20	9980.80
.021515	410.	420.	430.	5	0	0	.00	30.71	10011.51

*SECNO 530.000

530.000	1.19	2185.09	.00	.00	2185.39	.30	11.07	.01	2183.90
145.	21.	124.	0.	6.	27.	0.	2.	2.	2185.20
.15	3.66	4.52	.00	.045	.040	.000	.000	2183.90	9966.69
.024792	480.	480.	480.	5	0	0	.00	49.85	10016.54

*SECNO 600.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

600.000	1.73	2193.83	2193.83	.00	2194.31	.48	8.40	.05	2195.60
145.	0.	141.	4.	0.	25.	2.	2.	2.	2193.30
.17	.00	5.63	1.97	.000	.040	.045	.000	2192.10	9991.37
.020881	370.	370.	370.	5	14	0	.00	31.45	10022.82

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     FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LA027815.H2
T2   500-YR FLOOD FREQUENCY MODEL
T3   WILLOW SPR. TRIB. 5A     (WST5A.DAT)

J1  ICHECK   INQ     NINV    IDIR    STRT    METRIC  HVINS   Q       WSEL    FQ

             5                    .015                            2112.85

J2  NPROF    IPLOT   PRFVS   XSECV   XSECH   FN      ALLDC   IBW     CHNIM   ITRACE

    15               -1
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
          QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*PROF 4

CCHV=     .100 CEHV=     .300
*SECNO 800.000
       ****REVISED STREAMFLOWS FROM CVCRK43R.OUT*********
         COMMON SECTION IS SEC. 800 FROM WILLOW SPR. WASH TRIB.5.
         SEC. 000 = SEC. 0.82 OF WILLOW SPR. WASH TRIB. 5.
         FLOW VALUES ARE FROM CH2M HILL HEC-1
         QT VALUES ARE 23% OF SUBWTRSHD 'F3'
  800.000     2.75  2112.85      .00  2112.85  2113.31      .46      .00      .00  2112.10
     185.       5.     180.       0.       3.     32.       0.       0.       0.   2114.10
      .00     1.89     5.54      .00     .050     .040     .000     .000  2110.10  9974.65
  .015029       0.       0.       0.        0        0        0      .00    30.75 10005.40


*SECNO 130.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  130.000     1.92  2133.42  2133.42      .00  2133.84      .41    11.64      .01  2132.40
     185.      16.     142.      27.       7.     25.      11.       1.       1.   2132.40
      .04     2.28     5.75     2.45     .050     .040     .050     .000  2131.50  9981.31
  .014439     790.     790.     790.        3       15        0      .00    55.85 10037.16


*SECNO 190.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  190.000     2.20  2142.00  2142.00      .00  2142.64      .64     5.46      .07  2142.90
     185.       0.     177.       8.       0.     27.       3.       1.       1.   2140.70
      .06      .00     6.55     3.09     .000     .040     .050     .000  2139.80  9980.48
  .020494     340.     320.     310.       11        8        0      .00    23.56 10004.05


*SECNO 270.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  270.000     2.89  2152.89  2152.89      .00  2153.50      .62     8.66      .00  2155.00
     185.       0.     148.      37.       0.     22.      10.       1.       1.   2151.20
      .08      .00     6.78     3.78     .000     .040     .050     .000  2150.00  9985.52
  .020608     410.     420.     430.       14       11        0      .00    25.93 10011.46
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 CNO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q       QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
 SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*SECNO 360.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  360.000     2.66  2164.36  2164.36      .00  2165.04      .67    10.36      .02  2164.30
     185.       0.     185.       0.       0.      28.       0.       2.       2.   2164.60
      .10      .04     6.59      .00     .050     .040     .000     .000  2161.70  9994.94
  .022831     500.     480.     460.       20       11        0      .00    22.68 10017.62


*SECNO 440.000
  440.000     1.84  2174.04  2174.02      .00  2174.54      .50     9.49      .02  2173.60
     185.       0.     185.       0.       0.      32.       0.       2.       2.   2175.40
      .12     1.54     5.70      .00     .050     .040     .000     .000  2172.20  9980.39
  .022354     410.     420.     430.        7       19        0      .00    32.11 10012.50


*SECNO 530.000
  530.000     1.31  2185.21      .00      .00  2185.55      .34    11.00      .02  2183.90
     185.      27.     158.       0.       7.      33.       0.       2.       2.   2185.20
      .15     3.82     4.82      .05     .045     .040     .045     .000  2183.90  9965.65
  .023492     480.     480.     480.        4        0        0      .00    53.07 10018.72


*SECNO 600.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  600.000     1.93  2194.03  2194.03      .00  2194.55      .52     7.84      .05  2195.60
     185.       0.     175.      10.       0.      30.       4.       3.       3.   2193.30
      .16      .00     5.93     2.33     .000     .040     .045     .000  2192.10  9990.67
  .019212     370.     370.     370.        5       14        0      .00    35.32 10025.99
```

THIS RUN EXECUTED 2/26/90 16:34: 3

****
HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989

ERROR CORR - 01,02,03
MODIFICATION -
****

NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

WILLOW SPR TRIB. 5A

SUMMARY PRINTOUT

	SECNO	CWSEL	Q	DEPTH	VLOB	VCH	VROB	QLOB	QCH	QROB	TOPWID	10*KS	DIFWSX
	800.000	2112.24	81.00	2.14	.62	4.22	.00	.06	80.94	.00	21.81	149.87	.00
	800.000	2112.52	123.00	2.42	1.28	4.86	.00	1.17	121.83	.00	25.91	150.26	.00
	800.000	2112.65	145.00	2.55	1.53	5.11	.00	2.39	142.61	.00	27.82	148.85	.00
	800.000	2112.85	185.00	2.75	1.89	5.54	.00	5.49	179.51	.00	30.75	150.29	.00
*	130.000	2132.87	81.00	1.37	1.58	4.91	1.59	2.40	75.33	3.26	31.93	196.98	20.63
*	130.000	2133.14	123.00	1.64	1.95	5.30	2.09	7.26	104.90	10.84	42.47	163.69	20.62
*	130.000	2133.24	145.00	1.74	2.09	5.51	2.26	10.23	118.83	15.94	47.44	157.52	20.59
*	130.000	2133.42	185.00	1.92	2.28	5.75	2.45	16.45	141.54	27.01	55.85	144.39	20.57
*	190.000	2141.31	81.00	1.51	.00	5.38	2.02	.00	79.81	1.19	18.03	238.29	8.44
*	190.000	2141.62	123.00	1.82	.00	5.95	2.55	.00	119.60	3.40	20.55	220.06	8.49
*	190.000	2141.77	145.00	1.97	.00	6.18	2.76	.00	140.09	4.91	21.71	212.75	8.53
*	190.000	2142.00	185.00	2.20	.00	6.55	3.09	.00	176.89	8.10	23.56	204.94	8.57
*	270.000	2152.16	81.00	2.16	.00	5.76	2.69	.00	72.56	8.44	17.66	221.41	10.85
*	270.000	2152.52	123.00	2.52	.00	6.17	3.21	.00	104.12	18.87	21.72	206.10	10.89
*	270.000	2152.66	145.00	2.66	.00	6.40	3.43	.00	120.13	24.87	23.36	205.46	10.89
*	270.000	2152.89	185.00	2.89	.00	6.78	3.78	.00	148.48	36.51	25.93	206.08	10.89
	360.000	2163.61	81.00	1.91	.00	5.61	.00	.00	81.00	.00	15.13	259.45	11.45
*	360.000	2163.95	123.00	2.25	.00	6.11	.00	.00	123.00	.00	17.87	246.80	11.44
*	360.000	2164.11	145.00	2.41	.00	6.31	.00	.00	145.00	.00	19.08	241.31	11.45
*	360.000	2164.36	185.00	2.66	.04	6.59	.00	.00	185.00	.00	22.68	228.31	11.48
	440.000	2173.60	81.00	1.40	.00	4.20	.00	.00	81.00	.00	27.74	209.04	9.99
	440.000	2173.80	123.00	1.60	.04	4.88	.00	.00	123.00	.00	29.83	212.79	9.84
	440.000	2173.89	145.00	1.69	1.15	5.19	.00	.13	144.86	.00	30.71	215.15	9.78
	440.000	2174.04	185.00	1.84	1.54	5.70	.00	.40	184.59	.00	32.11	223.54	9.67
	530.000	2184.85	81.00	.95	3.23	3.80	.00	11.63	69.37	.00	43.91	261.49	11.25
	530.000	2185.01	123.00	1.11	3.53	4.32	.00	17.48	105.52	.00	47.95	252.94	11.22
	530.000	2185.09	145.00	1.19	3.66	4.52	.00	20.67	124.33	.00	49.85	247.92	11.20
	530.000	2185.21	185.00	1.31	3.82	4.82	.05	26.57	158.43	.00	53.07	234.92	11.18

	SECNO	CWSEL	Q	DEPTH	VLOB	VCH	VROB	QLOB	QCH	QROB	TOPWID	10*KS	DIFWSX
	600.000	2193.49	81.00	1.39	.00	4.64	1.01	.00	80.70	.29	24.79	213.68	8.64
*	600.000	2193.71	123.00	1.61	.00	5.43	1.70	.00	120.69	2.31	29.11	220.05	8.70
*	600.000	2193.83	145.00	1.73	.00	5.63	1.97	.00	140.56	4.44	31.45	208.81	8.74
*	600.000	2194.03	185.00	1.93	.00	5.93	2.33	.00	175.09	9.91	35.32	192.12	8.81

.W SPR TRIB. 5A

SUMMARY PRINTOUT TABLE 150

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
	800.000	.00	.00	.00	2110.10	81.00	2112.24	.00	2112.52	149.87	4.22	19.28	6.62
	800.000	.00	.00	.00	2110.10	123.00	2112.52	.00	2112.88	150.26	4.86	25.96	10.03
	800.000	.00	.00	.00	2110.10	145.00	2112.65	.00	2113.05	148.85	5.11	29.45	11.88
	800.000	.00	.00	.00	2110.10	185.00	2112.85	.00	2113.31	150.29	5.54	35.31	15.09
*	130.000	790.00	.00	.00	2131.50	81.00	2132.87	2132.87	2133.22	196.98	4.91	18.93	5.77
*	130.000	790.00	.00	.00	2131.50	123.00	2133.14	2133.14	2133.52	163.69	5.30	28.70	9.61
*	130.000	790.00	.00	.00	2131.50	145.00	2133.24	2133.24	2133.64	157.52	5.51	33.51	11.55
*	130.000	790.00	.00	.00	2131.50	185.00	2133.42	2133.42	2133.84	144.39	5.75	42.85	15.40
*	190.000	320.00	.00	.00	2139.80	81.00	2141.31	2141.31	2141.76	238.29	5.38	15.42	5.25
*	190.000	320.00	.00	.00	2139.80	123.00	2141.62	2141.62	2142.16	220.06	5.95	21.42	8.29
*	190.000	320.00	.00	.00	2139.80	145.00	2141.77	2141.77	2142.34	212.75	6.18	24.45	9.94
*	190.000	320.00	.00	.00	2139.80	185.00	2142.00	2142.00	2142.64	204.94	6.55	29.65	12.92
*	270.000	420.00	.00	.00	2150.00	81.00	2152.16	2152.16	2152.63	221.41	5.76	15.74	5.44
*	270.000	420.00	.00	.00	2150.00	123.00	2152.52	2152.52	2153.04	206.10	6.17	22.75	8.57
*	270.000	420.00	.00	.00	2150.00	145.00	2152.66	2152.66	2153.22	205.46	6.40	26.01	10.12
	270.000	420.00	.00	.00	2150.00	185.00	2152.89	2152.89	2153.50	206.08	6.78	31.56	12.89
	360.000	480.00	.00	.00	2161.70	81.00	2163.61	2163.61	2164.10	259.45	5.61	14.44	5.03
*	360.000	480.00	.00	.00	2161.70	123.00	2163.95	2163.95	2164.53	246.80	6.11	20.13	7.83
*	360.000	480.00	.00	.00	2161.70	145.00	2164.11	2164.11	2164.73	241.31	6.31	22.97	9.33
*	360.000	480.00	.00	.00	2161.70	185.00	2164.36	2164.36	2165.04	228.31	6.59	28.14	12.24
	440.000	420.00	.00	.00	2172.20	81.00	2173.60	.00	2173.87	209.04	4.20	19.29	5.60
	440.000	420.00	.00	.00	2172.20	123.00	2173.80	.00	2174.17	212.79	4.88	25.24	8.43
	440.000	420.00	.00	.00	2172.20	145.00	2173.89	.00	2174.31	215.15	5.19	28.05	9.89
	440.000	420.00	.00	.00	2172.20	185.00	2174.04	2174.02	2174.54	223.54	5.70	32.62	12.37
	530.000	480.00	.00	.00	2183.90	81.00	2184.85	.00	2185.07	261.49	3.80	21.87	5.01
	530.000	480.00	.00	.00	2183.90	123.00	2185.01	.00	2185.29	252.94	4.32	29.39	7.73
	530.000	480.00	.00	.00	2183.90	145.00	2185.09	.00	2185.39	247.92	4.52	33.13	9.21
	530.000	480.00	.00	.00	2183.90	185.00	2185.21	.00	2185.55	234.92	4.82	39.86	12.07
	600.000	370.00	.00	.00	2192.10	81.00	2193.49	.00	2193.83	213.68	4.64	17.67	5.54
*	600.000	370.00	.00	.00	2192.10	123.00	2193.71	2193.71	2194.16	220.05	5.43	23.60	8.29
*	600.000	370.00	.00	.00	2192.10	145.00	2193.83	2193.83	2194.31	208.81	5.63	27.21	10.03
*	600.000	370.00	.00	.00	2192.10	185.00	2194.03	2194.03	2194.55	192.12	5.93	33.80	13.35

W SPR TRIB. 5A

SUMMARY PRINTOUT TABLE 150

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	800.000	81.00	2112.24	.00	.00	.00	21.81	.00
	800.000	123.00	2112.52	.28	.00	.00	25.91	.00
	800.000	145.00	2112.65	.13	.00	.00	27.82	.00
	800.000	185.00	2112.85	.20	.00	.00	30.75	.00
*	130.000	81.00	2132.87	.00	20.63	.00	31.93	790.00
*	130.000	123.00	2133.14	.27	20.62	.00	42.47	790.00
*	130.000	145.00	2133.24	.11	20.59	.00	47.44	790.00
*	130.000	185.00	2133.42	.18	20.57	.00	55.85	790.00
*	190.000	81.00	2141.31	.00	8.44	.00	18.03	320.00
*	190.000	123.00	2141.62	.31	8.49	.00	20.55	320.00
*	190.000	145.00	2141.77	.14	8.53	.00	21.71	320.00
*	190.000	185.00	2142.00	.23	8.57	.00	23.56	320.00
*	270.000	81.00	2152.16	.00	10.85	.00	17.66	420.00
*	270.000	123.00	2152.52	.36	10.89	.00	21.72	420.00
*	270.000	145.00	2152.66	.14	10.89	.00	23.36	420.00
	270.000	185.00	2152.89	.23	10.89	.00	25.93	420.00
	360.000	81.00	2163.61	.00	11.45	.00	15.13	480.00
*	360.000	123.00	2163.95	.34	11.44	.00	17.87	480.00
*	360.000	145.00	2164.11	.15	11.45	.00	19.08	480.00
*	360.000	185.00	2164.36	.25	11.48	.00	22.68	480.00
	440.000	81.00	2173.60	.00	9.99	.00	27.74	420.00
	440.000	123.00	2173.80	.20	9.84	.00	29.83	420.00
	440.000	145.00	2173.89	.09	9.78	.00	30.71	420.00
	440.000	185.00	2174.04	.15	9.67	.00	32.11	420.00
	530.000	81.00	2184.85	.00	11.25	.00	43.91	480.00
	530.000	123.00	2185.01	.16	11.22	.00	47.95	480.00
	530.000	145.00	2185.09	.07	11.20	.00	49.85	480.00
	530.000	185.00	2185.21	.12	11.18	.00	53.07	480.00
	600.000	81.00	2193.49	.00	8.64	.00	24.79	370.00
*	600.000	123.00	2193.71	.22	8.70	.00	29.11	370.00
*	600.000	145.00	2193.83	.12	8.74	.00	31.45	370.00
*	600.000	185.00	2194.03	.20	8.81	.00	35.32	370.00

SUMMARY OF ERRORS AND SPECIAL NOTES

```
CAUTION SECNO=    130.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    130.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    130.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    130.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    130.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    130.000  PROFILE=  3  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    130.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    130.000  PROFILE=  4  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    190.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    190.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    190.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    190.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    190.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    190.000  PROFILE=  3  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    190.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    190.000  PROFILE=  4  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    270.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    270.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    270.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    270.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    270.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    270.000  PROFILE=  3  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    270.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    270.000  PROFILE=  4  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    360.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    360.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    360.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    360.000  PROFILE=  3  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    360.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    360.000  PROFILE=  4  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    360.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=    600.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    600.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    600.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    600.000  PROFILE=  3  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    600.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    600.000  PROFILE=  4  MINIMUM SPECIFIC ENERGY

Stop - Program terminated.

Stop - Program terminated.

   ting to DOS
  Type MENU, to Return to the Menu

C:\27815\NATURAL>menu2
```

```
*****************************************************
*  WATER SURFACE PROFILES                           *
*  VERSION OF SEPTEMBER 1988                        *
*  ERROR: 01,02,03                                  *
*  UPDATED:  SEPTEMBER 1989                         *
*  RUN DATE     3/28/90    TIME     8:40:18         *
*****************************************************
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*************************************
*  U.S. ARMY CORPS OF ENGINEERS
*  THE HYDROLOGIC ENGINEERING CENTER
*  609 SECOND STREET, SUITE D
*  DAVIS, CALIFORNIA 95616-4687
*           (916) 756-1104
*************************************
```

```
X     X  XXXXXXX   XXXXX              XXXXX
X     X  X        X     X            X     X
X     X  X        X                        X
XXXXXXX  XXXX     X          XXXXX    XXXXX
X     X  X        X                  X
X     X  X        X     X            X
X     X  XXXXXXX   XXXXX             XXXXXXX
```

END OF BANNER

THIS RUN EXECUTED 3/28/90 8:40:18

```
**************************************************
  HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989


  ERROR CORR -  01,02,03
  MODIFICATION -
**************************************************


T1        FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LAO27815.H2
T2        100-YR FLOOD FREQUENCY MODEL  (NATURAL CONDITIONS)
T3        WILLOW SPR. TRIB. 5A     (WST5A.MCE)

J1  ICHECK    INQ     NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

                2                       .015                                2112.24

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

     1                 -1


VARIABLE CODES FOR SUMMARY PRINTOUT

    38       43       26        8       42       39        1       34        4       53
    21       22       54        0       38       43        1       50       51       27
    21       22       28        5        3       61      200

J5  LPRNT    NUMSEC                 ********REQUESTED SECTION NUMBERS********

   -10      -10

QT       2      145      145
NC     .05      .05      .04       .1       .3
ET                       9.1                                                    9982.4    10003.0
         THIS ENCROACHMENT MODEL IS BASED ON A PREVIOUS HEC-2 MODEL OF
         NATURAL CONDITIONS.  REFER TO FILE WST5A.OUT (CH2M HILL, 1990)

X1     800       13   9982.4  10010.8
GR  2130.5   9885.0   2120.6   9908.2   2116.7   9931.5   2114.8   9954.5   2112.1   9982.4
GR  2110.1   9986.7   2110.9   9987.0   2111.6  10000.0   2114.1  10010.8   2116.4  10044.1
GR  2118.2  10064.9   2129.0  10097.2   2134.7  10109.8

ET                       9.1                                                    9995.4   10012.1
X1     130       15   9995.4  10012.1      790      790      790
GR  2150.9   9908.2   2150.6   9928.2   2143.0   9946.5   2134.9   9970.2   2133.7   9977.5
GR  2132.4   9995.4   2131.5  10000.0   2132.4  10012.1   2133.0  10023.3   2133.8  10049.5
GR  2133.7  10080.1   2135.8  10107.0   2139.6  10128.1   2151.7  10166.7   2152.7  10168.7
```

ET			9.1						9983.0	10000.0
X1	190	11	9976.0	10000.0	340	310	320			
GR	2161.1	9889.2	2152.4	9912.7	2145.8	9936.5	2142.2	9960.8	2142.9	9976.0
GR	2139.8	9991.4	2140.7	10000.0	2146.5	10018.1	2152.4	10039.3	2155.9	10065.1
GR	2158.6	10096.5								
ET			9.1						9988.0	10000.0
X1	270	14	9975.8	10000.0	410	430	420			
GR	2172.0	9883.2	2170.6	9898.9	2162.8	9923.4	2159.1	9946.3	2155.7	9967.4
GR	2155.0	9975.8	2150.0	9998.8	2151.2	10000.0	2154.1	10019.7	2157.4	10039.5
GR	2162.3	10065.7	2170.6	10092.4	2171.4	10127.3	2172.2	10134.5		
ET			9.1						9998.0	10014.0
X1	360	11	9996.6	10019.2	500	460	480			
GR	2180.0	9844.0	2174.5	9886.5	2168.7	9932.6	2165.5	9967.9	2165.0	9977.9
GR	2164.3	9996.6	2161.7	10000.0	2164.6	10019.2	2165.2	10019.6	2180.1	10072.2
GR	2179.8	10127.3								
ET			9.1						9981.6	10010.0
X1	440	17	9981.6	10021.8	410	430	420			
GR	2195.9	9810.1	2190.1	9850.0	2187.5	9864.7	2189.1	9890.7	2190.6	9929.4
GR	2188.3	9947.8	2183.3	9954.7	2173.6	9981.6	2172.2	10000.0	2175.4	10021.8
GR	2177.6	10084.3	2178.3	10107.0	2183.5	10137.4	2185.6	10159.8	2186.4	10191.1
GR	2190.2	10224.1	2191.1	10253.0						
NC	.045	.045	.04							
ET			9.1						9976.2	10015.0
X1	530	13	9976.2	10018.4	480	480	480			
GR	2202.9	9869.4	2201.8	9899.4	2194.7	9922.5	2187.3	9949.0	2183.9	9976.2
GR	2184.5	9981.6	2184.1	10000.0	2185.2	10018.4	2186.6	10041.5	2196.6	10095.3
GR	2200.1	10148.0	2202.3	10191.5	2204.2	10217.7				
ET			9.1						9993.0	10014.3
X1	600	11	9985.1	10014.3	370	370	370			
GR	2211.6	9872.5	2209.1	9905.2	2203.7	9937.6	2198.0	9964.5	2195.6	9985.1
GR	2192.1	9997.5	2192.2	10000.0	2193.3	10014.3	2195.0	10041.6	2198.4	10071.1
GR	2206.2	10116.7								

```
      FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LA027815.H2
T2    100-YR FLOOD FREQUENCY MODEL  (ENCROACHMENT CONDITIONS)
T3    WILLOW SPR. TRIB. 5A     (WST5A.MCE)

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

              3                                                      2113.24

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

    15                 -1
```

THIS RUN EXECUTED 3/28/90 8:40:25

****
HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989

ERROR CORR - 01,02,03
MODIFICATION -
****

NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

WILLOW SPR. TRIB. 5A

SUMMARY PRINTOUT

	SECNO	Q	VCH	DEPTH	ELMIN	XLCH	CWSEL	.01K	TOPWID	SSTA	STCHL	STCHR	ENDST
	800.000	145.00	5.11	2.55	2110.10	.00	2112.65	11.91	27.84	9976.70	9982.40	10010.80	10004.54
	800.000	145.00	3.65	3.14	2110.10	.00	2113.24	20.82	20.60	9982.40	9982.40	10010.80	10003.00
	130.000	145.00	5.50	1.74	2131.50	790.00	2133.24	11.56	47.46	9983.79	9995.40	10012.10	10031.25
*	130.000	145.00	6.55	1.77	2131.50	790.00	2133.27	9.24	16.70	9995.40	9995.40	10012.10	10012.10
*	190.000	145.00	6.18	1.97	2139.80	320.00	2141.77	9.94	21.70	9981.63	9976.00	10000.00	10003.33
*	190.000	145.00	6.54	1.95	2139.80	320.00	2141.75	9.28	17.00	9983.00	9976.00	10000.00	10000.00
*	270.000	145.00	6.40	2.66	2150.00	420.00	2152.66	10.12	23.37	9986.56	9975.80	10000.00	10009.93
*	270.000	145.00	7.38	2.75	2150.00	420.00	2152.75	8.85	12.00	9988.00	9975.80	10000.00	10000.00
*	360.000	145.00	6.31	2.41	2161.70	480.00	2164.11	9.33	19.08	9996.85	9996.60	10019.20	10015.94
	360.000	145.00	6.27	2.47	2161.70	480.00	2164.17	10.18	16.00	9998.00	9996.60	10019.20	10014.00
	440.000	145.00	5.19	1.69	2172.20	420.00	2173.89	9.89	30.71	9980.80	9981.60	10021.80	10011.51
	440.000	145.00	5.54	1.63	2172.20	420.00	2173.83	9.09	28.40	9981.60	9981.60	10021.80	10010.00
	530.000	145.00	4.52	1.19	2183.90	480.00	2185.09	9.21	49.85	9966.69	9976.20	10018.40	10016.54
	530.000	145.00	4.61	1.29	2183.90	480.00	2185.19	9.90	38.80	9976.20	9976.20	10018.40	10015.00
*	600.000	145.00	5.63	1.73	2192.10	370.00	2193.83	10.03	31.45	9991.37	9985.10	10014.30	10022.82
*	600.000	145.00	6.07	1.70	2192.10	370.00	2193.80	9.26	21.30	9993.00	9985.10	10014.30	10014.30

LLOW SPR. TRIB. 5A

SUMMARY PRINTOUT

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	STENCL	STCHL	STCHR	STENCR	10*KS	EG	DIFEG
	800.000	145.00	2112.65	.00	.00	.00	9982.40	10010.80	.00	148.21	2113.05	.00
	800.000	145.00	2113.24	.59	.00	9982.40	9982.40	10010.80	10003.00	48.52	2113.45	.40
*	130.000	145.00	2133.24	.00	20.59	.00	9995.40	10012.10	.00	157.26	2133.64	.00
*	130.000	145.00	2133.27	.03	20.03	9995.40	9995.40	10012.10	10012.10	246.39	2133.94	.30
*	190.000	145.00	2141.77	.00	8.52	.00	9976.00	10000.00	.00	213.01	2142.34	.00
*	190.000	145.00	2141.75	-.02	8.47	9983.00	9976.00	10000.00	10000.00	244.11	2142.41	.07
*	270.000	145.00	2152.66	.00	10.89	.00	9975.80	10000.00	.00	205.35	2153.22	.00
*	270.000	145.00	2152.75	.09	11.00	9988.00	9975.80	10000.00	10000.00	268.55	2153.60	.38
*	360.000	145.00	2164.11	.00	11.45	.00	9996.60	10019.20	.00	241.31	2164.73	.00
	360.000	145.00	2164.17	.06	11.41	9998.00	9996.60	10019.20	10014.00	203.04	2164.78	.05
	440.000	145.00	2173.89	.00	9.78	.00	9981.60	10021.80	.00	215.15	2174.31	.00
	440.000	145.00	2173.83	-.06	9.66	9981.60	9981.60	10021.80	10010.00	254.53	2174.31	.00
	530.000	145.00	2185.09	.00	11.20	.00	9976.20	10018.40	.00	247.92	2185.39	.00
	530.000	145.00	2185.19	.10	11.36	9976.20	9976.20	10018.40	10015.00	214.58	2185.52	.13
*	600.000	145.00	2193.83	.00	8.74	.00	9985.10	10014.30	.00	208.81	2194.31	.00
*	600.000	145.00	2193.80	-.03	8.61	9993.00	9985.10	10014.30	10014.30	245.26	2194.37	.06

SUMMARY OF ERRORS AND SPECIAL NOTES

```
CAUTION SECNO=    130.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    130.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    130.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    130.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    130.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=    190.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    190.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    190.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    190.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    270.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    270.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    270.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    270.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    270.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    360.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    360.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    360.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=    600.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    600.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    600.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    600.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
```

FLOODWAY DATA, WILLOW SPR. TRIB. 5A
PROFILE NO. 2

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WATER SURFACE ELEVATION WITHOUT FLOODWAY	DIFFERENCE
800.000	21.	40.	3.6	2113.2	2112.7	.5
130.000	17.	22.	6.6	2133.3	2133.2	.1
190.000	17.	22.	6.5	2141.7	2141.8	-.1
270.000	12.	20.	7.4	2152.8	2152.7	.1
360.000	16.	23.	6.3	2164.2	2164.1	.1
440.000	28.	26.	5.5	2173.8	2173.9	-.1
530.000	39.	31.	4.6	2185.2	2185.1	.1
600.000	21.	24.	6.1	2193.8	2193.8	.0

```
*****************************************************
*  WATER SURFACE PROFILES                           *
*  VERSION OF SEPTEMBER 1988                        *
*  ERROR: 01,02,03                                  *
*  UPDATED:  SEPTEMBER 1989                         *
*  RUN DATE     3/ 8/90    TIME    18: 0:44         *
*****************************************************
```

```
****************************************
*  U.S. ARMY CORPS OF ENGINEERS
*  THE HYDROLOGIC ENGINEERING CENTER
*  609 SECOND STREET, SUITE D
*  DAVIS, CALIFORNIA 95616-4687
*           (916) 756-1104
****************************************
```

FS. OUT
100 YR CWSEL 3-9-90

```
X     X  XXXXXXX   XXXXX              XXXXX
X     X  X        X     X            X     X
X     X  X        X                        X
XXXXXXX  XXXX     X          XXXXX    XXXXX
X     X  X        X                  X
X     X  X        X     X            X
X     X  XXXXXXX   XXXXX             XXXXXXX
```

END OF BANNER

THIS RUN EXECUTED 3/ 8/90 18: 0:45

```
**************************************************
  HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989


  ERROR CORR -  01,02,03
  MODIFICATION -
**************************************************



T1      FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LA027815.H2
T2      10 YEAR FLOOD FREQUENCY MODEL
T3      FLEMMING SPRINGS WASH (FS.DAT)


J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

              2                           .019                                    2530.62

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

    1                   -1


J7  'ARIABLE CODES FOR SUMMARY PRINTOUT

    38        1         43        8         55        26        56        13        14        15
     4        5         51
   150


QT       4       409       547       610       730

NC     .055      .055      .038        .1        .3

         *******REVISED STREAMFLOWS FROM CVCRK43R.OUT (CH2M HEC1)******
         *****NO COMMON SECTION IS USED FROM WILLOW SPRINGS WASH ******
         FLOWS FROM FLEMMING SPR. ENTER A BACKWATER AT SEC. 4240
         OF WILLOW SPR. WASH.  THE ROAD CROSSING AT 4240 IS 3' ABOVE THE
         CONFLUENCE STREAMBED.
         SEC. 000 = SEC. 4.425 OF WILLOW SPRINGS WASH
         QT VALUES FROM CP `D2' (FOR ENTIRE STUDY REACH)

X1      10        5      9960     10000        40        40        40
GR    2536      9900      2532      9960      2528     10000      2532     10050      2544     10100
```

```
X1      40        11   10000.0   10020.8       170       170       170
C    2556.3    9892.0    2546.2    9916.7    2537.9    9937.9    2537.8    9966.1    2534.7   10000.0
GR   2536.3   10020.8    2536.3   10041.6    2542.5   10059.4    2552.0   10090.2    2554.8   10110.6
GR   2556.6   10119.4

NC                        .045

X1      70        15    9998.3   10026.2       160       160       160
GR   2563.8    9895.9    2559.8    9920.4    2555.9    9945.3    2556.5    9974.0    2548.3    9984.9
GR   2541.2    9998.3    2541.2   10000.0    2546.1   10026.2    2546.1   10048.3    2545.2   10068.9
GR   2545.4   10079.5    2554.8   10104.5    2561.1   10128.0    2563.9   10159.6    2563.9   10163.3

X1     120        12    9971.3   10000.0       250       270       260
GR   2575.8    9845.2    2565.3    9886.2    2559.4    9909.8    2558.3    9940.9    2554.9    9971.3
GR   2556.5    9993.5    2556.4   10000.0    2559.0   10019.6    2558.5   10043.7    2565.2   10060.9
GR   2574.2   10085.0    2577.5   10092.3

X1     210        16    9998.3   10013.6       490       470       480
GR   2599.0    9850.6    2597.1    9903.4    2592.3    9935.1    2592.2    9958.0    2586.7    9969.0
GR   2583.0    9986.4    2580.1    9998.3    2580.3   10000.0    2582.4   10013.6    2581.4   10034.7
GR   2583.8   10044.5    2590.0   10060.5    2589.9   10081.0    2594.1   10098.3    2599.2   10120.4
     2604.2   10137.3

N.       4        99    9919.6       .055   10000.0       .045   10027.6       .055   10119.9

X1     330        13   10000.0   10027.6       630       630       630
GR   2639.7    9811.2    2629.9    9839.1    2628.0    9859.8    2628.0    9887.8    2627.5    9919.6
GR   2625.5    9953.0    2625.4    9977.6    2625.6   10000.0    2624.7   10027.6    2634.1   10048.7
GR   2640.2   10080.0    2642.4   10116.0    2642.6   10119.9

NC     .06       .06       .045

X1     410        14   10000.0   10012.3       430       410       420
GR   2654.2    9866.2    2655.0    9895.3    2656.2    9914.8    2653.0    9934.6    2650.3    9954.9
GR   2649.8    9968.4    2644.5    9986.9    2643.1    9995.8    2642.4   10000.0    2642.5   10012.3
GR   2646.2   10022.7    2647.2   10035.8    2659.0   10055.0    2665.2   10078.4

X1     470        19    9997.6   10018.5       320       320       320
GR   2690.5    9799.6    2687.5    9828.1    2684.7    9862.6    2680.4    9905.0    2681.1    9919.6
GR   2677.8    9935.8    2675.1    9949.7    2674.4    9976.4    2673.9    9985.0    2667.6    9997.6
GR   2668.4   10000.0    2670.5   10018.5    2670.5   10047.8    2675.4   10069.2    2676.2   10094.7
GR   2678.3   10111.6    2684.1   10132.0    2689.2   10155.3    2691.7   10161.4
```

```
NC                        .06

X1     570        21    9996.0   10000.0      540      520      530
GR  2735.6    9844.4    2729.9    9876.9   2724.8   9909.8   2720.0   9938.1   2719.8   9966.1
GR  2719.8    9973.4    2713.0    9982.5   2709.8   9996.0   2710.0  10000.0   2712.4  10014.6
GR  2713.6   10030.9    2712.9   10045.0   2714.7  10082.0   2717.4  10105.6   2720.6  10130.6
GR  2722.4   10166.2    2723.4   10188.7   2722.8  10206.8   2727.1  10216.5   2728.8  10236.2
GR  2730.5   10240.1

X1     670        14    9983.0   10000.0      520      540      530
GR  2779.4    9797.2    2771.8    9820.6   2764.9   9842.8   2765.1   9876.8   2764.5   9901.5
GR  2767.7    9916.6    2765.0    9934.0   2765.0   9968.7   2758.9   9983.0   2757.3  10000.0
GR  2760.7   10023.0    2768.6   10041.7   2776.1  10057.9   2780.6  10068.9

X1     760        22    9983.1   10000.0      490      470      480
GR  2847.2    9785.2    2842.2    9800.3   2839.0   9804.0   2839.4   9819.1   2833.8   9831.0
GR  2827.0    9849.8    2827.0    9859.3   2825.9   9895.4   2826.0   9928.1   2826.0   9929.9
GR  2826.9    9950.3    2824.8    9968.4   2822.0   9983.1   2819.5   9999.1   2819.6  10000.0
GR  2824.7   10029.2    2825.6   10055.2   2831.1  10071.8   2835.5  10090.7   2833.4  10112.7
GR  2831.8   10127.3    2838.3   10145.1
```

```
 ECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q       QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 ME      VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
 SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*PROF 1

CCHV=     .100 CEHV=     .300
*SECNO 10.000
        *******REVISED STREAMFLOWS FROM CVCRK43R.OUT (CH2M HEC1)******
        *****NO COMMON SECTION IS USED FROM WILLOW SPRINGS WASH ******
        FLOWS FROM FLEMMING SPR. ENTER A BACKWATER AT SEC. 4240
        OF WILLOW SPR. WASH.  THE ROAD CROSSING AT 4240 IS 3' ABOVE THE
        CONFLUENCE STREAMBED.
        SEC. 000 = SEC. 4.425 OF WILLOW SPRINGS WASH
        QT VALUES FROM CP `D2' (FOR ENTIRE STUDY REACH)

   10.000     2.62  2530.62      .00  2530.62  2531.10      .48      .00      .00  2532.00
     409.      0.     219.     190.      0.      34.      43.      0.       0.   2528.00
      .00      .00    6.39     4.42    .000     .038     .055     .000  2528.00  9973.80
  .018751     40.      40.      40.      0        0        0      .00    58.95 10032.75


*SECNO 40.000
 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    `.000     2.33  2537.03  2537.03      .00  2537.62      .59     3.31      .03  2534.70
     409.     126.     234.      49.      30.      32.      16.      0.       0.   2536.30
      .01     4.24     7.37     3.06    .055     .038     .055     .000  2534.70  9974.53
  .020240     170.     170.     170.      11       15       0      .00    69.17 10043.69


*SECNO 70.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   70.000     3.59  2544.79  2544.79      .00  2545.77      .98     3.69      .12  2541.20
     409.      73.     336.       0.      12.      41.       0.      1.       0.   2546.10
      .01     5.99     8.29      .00    .055     .045     .000     .000  2541.20  9991.52
  .026547     160.     160.     160.      20       14       0      .00    27.67 10019.20


*SECNO 120.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  120.000     2.34  2557.24  2557.24      .00  2557.88      .64     7.22      .03  2554.90
     409.     126.     276.       7.      25.      39.       3.      1.       1.   2556.40
      .02     5.15     7.01     2.60    .055     .045     .055     .000  2554.90  9950.37
  .029661     250.     260.     270.       9       14       0      .00    55.97 10006.34
```

```
 ECNO    DEPTH   CWSEL   CRIWS   WSELK   EG      HV      HL      OLOSS   BANK ELEV
 Q       QLOB    QCH     QROB    ALOB    ACH     AROB    VOL     TWA   LEFT/RIGHT
 HE      VLOB    VCH     VROB    XNL     XNCH    XNR     WTN     ELMIN     SSTA
 SLOPE   XLOBL   XLCH    XLOBR   ITRIAL  IDC     ICONT   CORAR   TOPWID    ENDST


*SECNO 210.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  210.000    2.84  2582.94  2582.94     .00  2583.58     .64   13.51     .00  2580.10
     409.     90.     202.     117.     17.     26.     27.      2.      1.   2582.40
      .05    5.46    7.67    4.36    .055    .045    .055    .000  2580.10  9986.64
  .026602    490.    480.    470.      10      11       0     .00   54.35 10040.99


1490 NH CARD USED
*SECNO 330.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  330.000    1.64  2626.34  2626.34     .00  2626.79     .45   17.67     .02  2625.60
     409.    188.     210.      12.     47.     33.      3.      3.      2.   2624.70
      .08    4.02    6.38    3.84    .055    .045    .055    .000  2624.70  9938.96
  .029603    630.    630.    630.       3      14       0     .00   92.33 10031.28


 NO 410.000
 MINIMUM SPECIFIC ENERGY
3  CRITICAL DEPTH ASSUMED
  .000    2.60  2645.00  2645.00     .00  2645.91     .91   10.26     .14  2642.40
     409.     99.     275.      35.     21.     31.      9.      3.      3.   2642.50
      .10    4.83    8.77    3.93    .060    .045    .060    .000  2642.40  9985.15
  .020237    430.    420.    410.       4      14       0     .00   34.17 10019.33


*SECNO 470.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  470.000    3.58  2671.18  2671.18     .00  2671.84     .66    6.61     .03  2667.60
     409.     63.     289.      57.     13.     40.     21.      4.      3.   2670.50
      .11    4.92    7.29    2.73    .060    .045    .060    .000  2667.60  9990.44
  .021082    320.    320.    320.      20      14       0     .00   60.33 10050.77


*SECNO 570.000

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
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```
 ECNO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 ME       VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 LOPE     XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  570.000     3.25  2713.05  2713.05      .00  2713.74      .69    12.69      .01  2709.80
     409.      126.     111.     172.      22.      13.      30.       5.       4.  2710.00
      .13     5.64     8.82     5.66     .060     .060     .060     .000  2709.80  9982.43
  .027492     540.     530.     520.       20       11        0      .00    47.24 10048.14


*SECNO 670.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  670.000     2.70  2760.00  2760.00      .00  2760.80      .80    17.92      .03  2758.90
     409.       5.     252.     152.       1.      32.      25.       6.       4.  2757.30
      .15     3.23     7.79     6.17     .060     .060     .060     .000  2757.30  9980.42
  .042177     520.     530.     540.       20       12        0      .00    37.87 10018.28


*SECNO 760.000
 20 TRIALS ATTEMPTED WSEL,CWSEL
 PROBABLE MINIMUM SPECIFIC ENERGY
3  CRITICAL DEPTH ASSUMED
   .000     3.04  2822.54  2822.54      .00  2823.37      .83    20.42      .01  2822.00
     409.       2.     243.     164.       1.      31.      25.       6.       5.  2819.60
      .17     2.14     7.75     6.62     .060     .060     .060     .000  2819.50  9980.25
  .043586     490.     480.     470.       20        8        0      .00    36.60 10016.85
```

```
     FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LA027815.H2
T2   50 YEAR FLOOD FREQUENCY MODEL
T    FLEMMING SPR. WASH (FS.DAT)

J1  ICHECK   INQ     NINV    IDIR    STRT    METRIC  HVINS   Q       WSEL    FQ

             3                       .019                            2530.92

J2  NPROF    IPLOT   PRFVS   XSECV   XSECH   FN      ALLDC   IBW     CHNIM   ITRACE

    2                -1
```

```
 ECNO    DEPTH   CWSEL   CRIWS   WSELK   EG      HV      HL      OLOSS   BANK ELEV
 Q       QLOB    QCH     QROB    ALOB    ACH     AROB    VOL     TWA   LEFT/RIGHT
  ME     VLOB    VCH     VROB    XNL     XNCH    XNR     WTN     ELMIN     SSTA
 LOPE    XLOBL   XLCH    XLOBR   ITRIAL  IDC     ICONT   CORAR   TOPWID    ENDST


*PROF 2

CCHV=     .100 CEHV=     .300
*SECNO 10.000
        *******REVISED STREAMFLOWS FROM CVCRK43R.OUT (CH2M HEC1)******
        *****NO COMMON SECTION IS USED FROM WILLOW SPRINGS WASH ******
        FLOWS FROM FLEMMING SPR. ENTER A BACKWATER AT SEC. 4240
        OF WILLOW SPR. WASH.  THE ROAD CROSSING AT 4240 IS 3' ABOVE THE
        CONFLUENCE STREAMBED.
        SEC. 000 = SEC. 4.425 OF WILLOW SPRINGS WASH
        QT VALUES FROM CP `D2' (FOR ENTIRE STUDY REACH)

  10.000     2.92  2530.92     .00  2530.92  2531.48     .56     .00     .00  2532.00
    547.      0.     293.     254.      0.     43.     53.      0.      0.   2528.00
     .00     .00    6.88     4.76    .000    .038    .055    .000  2528.00  9970.80
 .018820     40.     40.      40.       0       0       0     .00   65.70 10036.50


*SECNO 40.000
 20 TRIALS ATTEMPTED WSEL,CWSEL
 PROBABLE MINIMUM SPECIFIC ENERGY
 CRITICAL DEPTH ASSUMED
    .000     2.61  2537.31  2537.31     .00  2537.97     .67    3.22     .03  2534.70
    547.     165.     300.     82.     37.     38.     22.      0.      0.   2536.30
     .01     4.44     8.00    3.65    .055    .038    .055    .000  2534.70  9971.51
 .019120     170.     170.    170.      20       9       0     .00   72.97 10044.49


*SECNO 70.000

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  70.000     4.14  2545.34  2545.34     .00  2546.35    1.02    3.37     .10  2541.20
    547.      99.     447.      0.     16.     53.      1.      1.      0.   2546.10
     .01     6.16     8.47     .69    .055    .045    .055    .000  2541.20  9990.49
 .023252     160.     160.    160.      20      14       0     .00   42.02 10076.16


*SECNO 120.000
7185 MINIMUM SPECIFIC ENERGY
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```
 ECNO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  ME      VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 LOPE     XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


3720 CRITICAL DEPTH ASSUMED
  120.000     2.63  2557.53  2557.53      .00  2558.28      .75     6.50      .03  2554.90
     547.     166.     366.      15.      31.      48.       5.       1.       1.   2556.40
      .02     5.36     7.67     3.05     .055     .045     .055     .000  2554.90  9947.76
  .027456     250.     260.     270.       10       14        0      .00    60.79 10008.54


*SECNO 210.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  210.000     3.11  2583.21  2583.21      .00  2583.97      .75    12.88      .00  2580.10
     547.     119.     256.     172.      20.      30.      34.       2.       1.   2582.40
      .04     5.99     8.39     5.00     .055     .045     .055     .000  2580.10  9985.39
  .026140     490.     480.     470.       11       11        0      .00    56.71 10042.11


1490 NH CARD USED
*SECNO 330.000
7185 MINIMUM SPECIFIC ENERGY
 CRITICAL DEPTH ASSUMED
 0.000     1.83  2626.53  2626.53      .00  2627.06      .53    17.34      .02  2625.60
     547.     265.     267.      15.      59.      38.       4.       3.       3.   2624.70
      .07     4.51     6.98     4.09     .055     .045     .055     .000  2624.70  9935.74
  .029028     630.     630.     630.        4       14        0      .00    95.98 10031.72


*SECNO 410.000

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  410.000     3.02  2645.42  2645.42      .00  2646.48     1.06    10.03      .16  2642.40
     547.     146.     350.      51.      27.      37.      12.       4.       3.   2642.50
      .09     5.38     9.58     4.30     .060     .045     .060     .000  2642.40  9983.70
  .019735     430.     420.     410.        8       14        0      .00    36.81 10020.50


*SECNO 470.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  470.000     3.88  2671.48  2671.48      .00  2672.23      .74     6.44      .03  2667.60
     547.      77.     365.     105.      15.      46.      31.       5.       4.   2670.50
      .10     5.13     7.94     3.41     .060     .045     .060     .000  2667.60  9989.84
  20538     320.     320.     320.       20       11        0      .00    62.25 10052.08
```

ECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
ME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 570.000

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

570.000	3.65	2713.45	2713.45	.00	2714.13	.68	11.92	.01	2709.80
547.	171.	129.	247.	28.	14.	46.	6.	4.	2710.00
.12	6.16	9.07	5.32	.060	.060	.060	.000	2709.80	9981.90
.024837	540.	530.	520.	20	11	0	.00	69.28	10056.28

*SECNO 670.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

670.000	3.07	2760.37	2760.37	.00	2761.31	.94	16.56	.08	2758.90
547.	10.	329.	208.	3.	39.	32.	7.	5.	2757.30
.14	3.82	8.53	6.55	.060	.060	.060	.000	2757.30	9979.56
40063	520.	530.	540.	20	15	0	.00	41.20	10020.75

*SECNO 760.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

760.000	3.44	2822.94	2822.94	.00	2823.88	.94	18.98	.00	2822.00
547.	7.	321.	220.	2.	38.	32.	8.	5.	2819.60
.16	2.95	8.41	6.87	.060	.060	.060	.000	2819.50	9978.16
.039661	490.	480.	470.	20	8	0	.00	40.96	10019.13

```
      FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LA027815.H2
T2    100 YEAR FLOOD FREQUENCY MODEL
T     FLEMMING SPR. WASH (FS.DAT)

J1  ICHECK   INQ     NINV    IDIR    STRT    METRIC  HVINS   Q       WSEL    FQ

              4                    .019                            2531.04

J2  NPROF    IPLOT   PRFVS   XSECV   XSECH   FN      ALLDC   IBW     CHNIM   ITRACE

     3               -1
```

```
 ECNO    DEPTH   CWSEL   CRIWS   WSELK   EG      HV      HL      OLOSS   BANK ELEV
 Q       QLOB    QCH     QROB    ALOB    ACH     AROB    VOL     TWA   LEFT/RIGHT
  E      VLOB    VCH     VROB    XNL     XNCH    XNR     WTN     ELMIN     SSTA
 SLOPE   XLOBL   XLCH    XLOBR   ITRIAL  IDC     ICONT   CORAR   TOPWID    ENDST


*PROF 3

CCHV=     .100 CEHV=     .300
*SECNO 10.000
        *******REVISED STREAMFLOWS FROM CVCRK43R.OUT (CH2M HEC1)******
        *****NO COMMON SECTION IS USED FROM WILLOW SPRINGS WASH ******
        FLOWS FROM FLEMMING SPR. ENTER A BACKWATER AT SEC. 4240
        OF WILLOW SPR. WASH.  THE ROAD CROSSING AT 4240 IS 3' ABOVE THE
        CONFLUENCE STREAMBED.
        SEC. 000 = SEC. 4.425 OF WILLOW SPRINGS WASH
        QT VALUES FROM CP `D2' (FOR ENTIRE STUDY REACH)

  10.000     3.04  2531.04      .00  2531.04  2531.63      .59      .00      .00  2532.00
    610.      0.     327.     283.      0.      46.      58.      0.       0.   2528.00
     .00     .00     7.08     4.90    .000     .038     .055     .000  2528.00  9969.60
 .018877     40.      40.      40.       0       0        0      .00    68.40 10038.00


*SECNO 40.000
 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3  CRITICAL DEPTH ASSUMED
  .0.000     2.71  2537.41  2537.41      .00  2538.12      .71     3.22      .04  2534.70
    610.     183.     330.      97.      40.      40.      25.      0.       0.   2536.30
     .01     4.55     8.29     3.89    .055     .038     .055     .000  2534.70  9970.34
 .019019     170.     170.     170.      20       12       0      .00    74.46 10044.79


*SECNO 70.000

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  70.000     4.43  2545.63  2545.63      .00  2546.56      .94     3.12      .07  2541.20
    610.     110.     491.       9.      18.      60.       6.      1.       1.   2546.10
     .01     5.97     8.19     1.62    .055     .045     .055     .000  2541.20  9989.95
 .020000     160.     160.     160.      20       14       0      .00    54.65 10080.10


*SECNO 120.000
7185 MINIMUM SPECIFIC ENERGY
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```
 ECNO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
  Q       QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  ME      VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


3720 CRITICAL DEPTH ASSUMED
  120.000     2.76  2557.66  2557.66      .00  2558.45      .79     5.92      .01  2554.90
    610.      185.     406.      19.      34.      51.       6.       1.       1.   2556.40
     .02     5.43     7.92     3.21     .055     .045     .055     .000  2554.90  9946.65
 .026588     250.     260.     270.       11       14        0      .00    62.83 10009.48


*SECNO 210.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  210.000     3.23  2583.33  2583.33      .00  2584.13      .80    12.57      .00  2580.10
    610.      133.     279.     198.      21.      32.      38.       2.       2.   2582.40
     .04     6.19     8.65     5.23     .055     .045     .055     .000  2580.10  9984.83
 .025698     490.     480.     470.       12       11        0      .00    57.76 10042.59


1490 NH CARD USED
*SECNO 330.000
7185 MINIMUM SPECIFIC ENERGY
 CRITICAL DEPTH ASSUMED
 0.000     1.92  2626.62  2626.62      .00  2627.18      .56    17.06      .02  2625.60
    610.      301.     292.      17.      64.      41.       4.       4.       3.   2624.70
     .07     4.69     7.21     4.18     .055     .045     .055     .000  2624.70  9934.33
 .028567     630.     630.     630.        5       14        0      .00    97.57 10031.90


*SECNO 410.000

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  410.000     3.20  2645.59  2645.59      .00  2646.71     1.12     9.89      .17  2642.40
    610.      168.     382.      60.      30.      39.      13.       5.       3.   2642.50
     .09     5.59     9.89     4.44     .060     .045     .060     .000  2642.40  9983.08
 .019458     430.     420.     410.        8       14        0      .00    37.92 10021.00


*SECNO 470.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  470.000     3.99  2671.59  2671.59      .00  2672.39      .79     6.43      .03  2667.60
    610.       84.     399.     128.      16.      48.      35.       5.       4.   2670.50
     .10     5.25     8.25     3.68     .060     .045     .060     .000  2667.60  9989.61
 20754     320.     320.     320.       20       11        0      .00    62.97 10052.58
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```
 ECNO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  ME      VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 LOPE     XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 570.000

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  570.000     3.79  2713.59  2713.59      .00  2714.28      .69    11.87      .01  2709.80
     610.     190.     136.     284.      30.      15.      54.       7.       5.  2710.00
      .12     6.36     9.22     5.23     .060     .060     .060     .000  2709.80  9981.71
  .024347     540.     530.     520.       20       11        0      .00    77.22 10059.22


*SECNO 670.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  670.000     3.23  2760.53  2760.53      .00  2761.51      .98    16.10      .09  2758.90
     610.      13.     363.     235.       3.      41.      35.       8.       5.  2757.30
      .14     4.02     8.77     6.65     .060     .060     .060     .000  2757.30  9979.17
  .038526     520.     530.     540.       20       12        0      .00    42.69 10021.87


*SECNO 760.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  760.000     3.60  2823.10  2823.10      .00  2824.09      .99    18.31      .00  2822.00
     610.      10.     354.     245.       3.      41.      35.       8.       6.  2819.60
      .16     3.23     8.67     6.98     .060     .060     .060     .000  2819.50  9977.31
  .038381     490.     480.     470.       20        8        0      .00    42.75 10020.06
```

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T     FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LA027815.H2
      500 YEAR FLOOD FREQUENCY MODEL
      FLEMMING SPR. WASH (FS.DAT)

J1  ICHECK   INQ     NINV    IDIR    STRT    METRIC  HVINS   Q       WSEL    FQ

             5                       .019                            2531.25

J2  NPROF    IPLOT   PRFVS   XSECV   XSECH   FN      ALLDC   IBW     CHNIM   ITRACE

    15               -1
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```
ECNO    DEPTH   CWSEL   CRIWS   WSELK   EG      HV      HL      OLOSS   BANK ELEV
Q       QLOB    QCH     QROB    ALOB    ACH     AROB    VOL     TWA   LEFT/RIGHT
WE      VLOB    VCH     VROB    XNL     XNCH    XNR     WTN     ELMIN     SSTA
SLOPE   XLOBL   XLCH    XLOBR   ITRIAL  IDC     ICONT   CORAR   TOPWID    ENDST


*PROF 4

CCHV=     .100 CEHV=     .300
*SECNO 10.000
        *******REVISED STREAMFLOWS FROM CVCRK43R.OUT (CH2M HEC1)******
        *****NO COMMON SECTION IS USED FROM WILLOW SPRINGS WASH ******
        FLOWS FROM FLEMMING SPR. ENTER A BACKWATER AT SEC. 4240
        OF WILLOW SPR. WASH.  THE ROAD CROSSING AT 4240 IS 3' ABOVE THE
        CONFLUENCE STREAMBED.
        SEC. 000 = SEC. 4.425 OF WILLOW SPRINGS WASH
        QT VALUES FROM CP `D2' (FOR ENTIRE STUDY REACH)

  10.000     3.25  2531.25     .00  2531.25  2531.90     .65     .00     .00  2532.00
    730.      0.     391.     339.      0.     53.     66.      0.      0.   2528.00
     .00     .00     7.41     5.13    .000    .038    .055    .000  2528.00  9967.50
 .018933     40.     40.      40.       0       0       0     .00   73.13 10040.63


*SECNO 40.000
    20 TRIALS ATTEMPTED WSEL,CWSEL
    PROBABLE MINIMUM SPECIFIC ENERGY
3   CRITICAL DEPTH ASSUMED
   .000     2.89  2537.59  2537.59     .00  2538.39     .80    3.25     .05  2534.70
    730.     219.     385.     126.     46.     44.     29.      0.      0.   2536.30
     .01     4.78     8.86     4.30    .055    .038    .055    .000  2534.70  9968.37
 .019249     170.     170.     170.      20       8       0     .00   76.93 10045.31


*SECNO 70.000

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  70.000     4.79  2545.99  2545.99     .00  2546.89     .90    2.96     .03  2541.20
    730.     129.     566.      36.     22.     70.     15.      1.      1.   2546.10
     .01     5.94     8.13     2.36    .055    .045    .055    .000  2541.20  9989.25
 .017792     160.     160.     160.      20      14       0     .00   66.74 10081.08


*SECNO 120.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
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```
ECNO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
ME       VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  120.000     2.98  2557.88  2557.88      .00  2558.74      .87     5.43      .00  2554.90
     730.     221.     480.      29.      40.      58.       8.       2.       1.  2556.40
      .02     5.58     8.34     3.49     .055     .045     .055     .000  2554.90  9944.69
  .025304     250.     260.     270.       20       14        0      .00    66.44 10011.13


*SECNO 210.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  210.000     3.44  2583.54  2583.54      .00  2584.42      .89    12.17      .01  2580.10
     730.     159.     324.     248.      24.      35.      44.       3.       2.  2582.40
      .04     6.53     9.13     5.64     .055     .045     .055     .000  2580.10  9983.87
  .025346     490.     480.     470.       13       11        0      .00    59.56 10043.43


1490 NH CARD USED
*SECNO 330.000
 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  .000     2.07  2626.77  2626.77      .00  2627.39      .62    16.77      .03  2625.60
  730.     370.     339.      21.      74.      45.       5.       4.       3.  2624.70
      .07     5.00     7.61     4.35     .055     .045     .055     .000  2624.70  9931.87
  .028007     630.     630.     630.        8       14        0      .00   100.37 10032.24


*SECNO 410.000

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  410.000     3.50  2645.90  2645.90      .00  2647.12     1.23     9.75      .18  2642.40
     730.     210.     444.      76.      35.      42.      16.       5.       3.  2642.50
      .08     5.95    10.46     4.71     .060     .045     .060     .000  2642.40  9982.02
  .019284     430.     420.     410.        8       14        0      .00    39.82 10021.85


*SECNO 470.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
  Q       QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  ME      VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 470.000     4.19  2671.79  2671.79      .00  2672.68      .89     6.48      .03  2667.60
    730.      96.     462.     171.      18.      52.      41.      6.       4.   2670.50
     .09     5.50     8.83     4.14     .060     .045     .060     .000  2667.60  9989.22
 .021319     320.     320.     320.       20       11        0      .00    64.21 10053.43


*SECNO 570.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 570.000     4.09  2713.89  2713.89      .00  2714.53      .64    11.23      .02  2709.80
    730.     219.     145.     366.      34.      16.      73.      8.       5.   2710.00
     .12     6.43     9.06     5.03     .060     .060     .060     .000  2709.80  9981.31
 .021162     540.     530.     520.       20        6        0      .00    84.03 10065.34


*SECNO 670.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 670.000     3.53  2760.83  2760.83      .00  2761.87     1.04    14.36      .12  2758.90
    730.      19.     421.     291.       4.      46.      42.      9.       6.   2757.30
     .14     4.30     9.08     6.92     .060     .060     .060     .000  2757.30  9978.48
 .035460     520.     530.     540.       20       15        0      .00    44.82 10023.30


*SECNO 760.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 760.000     3.89  2823.39  2823.39      .00  2824.45     1.07    17.16      .01  2822.00
    730.      19.     416.     295.       5.      46.      41.     10.       6.   2819.60
     .15     3.67     9.12     7.18     .060     .060     .060     .000  2819.50  9975.81
 .036616     490.     480.     470.       20        8        0      .00    45.87 10021.69
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THIS RUN EXECUTED 3/ 8/90 18: 1:31

****
HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989

ERROR CORR - 01,02,03
MODIFICATION -
****

NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

FLEMMING SPRINGS WASH (F

SUMMARY PRINTOUT

	SECNO	CWSEL	Q	DEPTH	VLOB	VCH	VROB	QLOB	QCH	QROB	TOPWID	10*KS	DIFWSX
	10.000	2530.62	409.00	2.62	.00	6.39	4.42	.00	219.34	189.66	58.95	187.51	.00
	10.000	2530.92	547.00	2.92	.00	6.88	4.76	.00	293.35	253.65	65.70	188.20	.00
	10.000	2531.04	610.00	3.04	.00	7.08	4.90	.00	327.14	282.86	68.40	188.77	.00
	10.000	2531.25	730.00	3.25	.00	7.41	5.13	.00	391.49	338.51	73.13	189.33	.00
*	40.000	2537.03	409.00	2.33	4.24	7.37	3.06	125.88	234.44	48.68	69.17	202.40	6.41
*	40.000	2537.31	547.00	2.61	4.44	8.00	3.65	164.91	300.42	81.67	72.97	191.20	6.39
*	40.000	2537.41	610.00	2.71	4.55	8.29	3.89	183.18	329.93	96.89	74.46	190.19	6.37
*	40.000	2537.59	730.00	2.89	4.78	8.86	4.30	218.61	385.43	125.96	76.93	192.49	6.34
*	70.000	2544.79	409.00	3.59	5.99	8.29	.00	72.85	336.15	.00	27.67	265.47	7.76
*	70.000	2545.34	547.00	4.14	6.16	8.47	.69	99.47	447.04	.49	42.02	232.52	8.03
*	70.000	2545.63	610.00	4.43	5.97	8.19	1.62	110.40	490.55	9.05	54.65	200.00	8.21
*	70.000	2545.99	730.00	4.79	5.94	8.13	2.36	128.92	565.53	35.55	66.74	177.92	8.40
*	120.000	2557.24	409.00	2.34	5.15	7.01	2.60	126.13	275.94	6.93	55.97	296.61	12.45
*	120.000	2557.53	547.00	2.63	5.36	7.67	3.05	166.02	366.23	14.75	60.79	274.56	12.20
*	120.000	2557.66	610.00	2.76	5.43	7.92	3.21	184.67	406.19	19.14	62.83	265.88	12.03
*	120.000	2557.88	730.00	2.98	5.58	8.34	3.49	220.89	480.46	28.66	66.44	253.04	11.88
*	210.000	2582.94	409.00	2.84	5.46	7.67	4.36	90.42	201.66	116.92	54.35	266.02	25.70
*	210.000	2583.21	547.00	3.11	5.99	8.39	5.00	119.23	255.62	172.15	56.71	261.40	25.68
*	210.000	2583.33	610.00	3.23	6.19	8.65	5.23	132.85	279.17	197.98	57.76	256.98	25.68
*	210.000	2583.54	730.00	3.44	6.53	9.13	5.64	158.96	323.53	247.51	59.56	253.46	25.66
*	330.000	2626.34	409.00	1.64	4.02	6.38	3.84	187.70	209.71	11.59	92.33	296.03	43.40
*	330.000	2626.53	547.00	1.83	4.51	6.98	4.09	264.86	266.70	15.44	95.98	290.28	43.32
*	330.000	2626.62	610.00	1.92	4.69	7.21	4.18	300.87	291.88	17.25	97.57	285.67	43.28
*	330.000	2626.77	730.00	2.07	5.00	7.61	4.35	370.09	339.08	20.83	100.37	280.07	43.23
*	410.000	2645.00	409.00	2.60	4.83	8.77	3.93	99.41	275.06	34.52	34.17	202.37	18.66
*	410.000	2645.42	547.00	3.02	5.38	9.58	4.30	145.77	349.76	51.47	36.81	197.35	18.88
*	410.000	2645.59	610.00	3.20	5.59	9.89	4.44	167.69	382.50	59.81	37.92	194.58	18.98
*	410.000	2645.90	730.00	3.50	5.95	10.46	4.71	210.02	443.66	76.32	39.82	192.84	19.13

	SECNO	CWSEL	Q	DEPTH	VLOB	VCH	VROB	QLOB	QCH	QROB	TOPWID	10*KS	DIFWSX
*	470.000	2671.18	409.00	3.58	4.92	7.29	2.73	63.06	288.85	57.10	60.33	210.82	26.18
*	470.000	2671.48	547.00	3.88	5.13	7.94	3.41	77.20	364.52	105.28	62.25	205.38	26.06
*	470.000	2671.59	610.00	3.99	5.25	8.25	3.68	83.82	398.52	127.66	62.97	207.54	26.00
*	470.000	2671.79	730.00	4.19	5.50	8.83	4.14	96.43	462.17	171.40	64.21	213.19	25.89
*	570.000	2713.05	409.00	3.25	5.64	8.82	5.66	125.74	111.24	172.02	47.24	274.92	41.87
*	570.000	2713.45	547.00	3.65	6.16	9.07	5.32	171.16	128.80	247.04	69.28	248.37	41.97
*	570.000	2713.59	610.00	3.79	6.36	9.22	5.23	189.77	136.19	284.04	77.22	243.47	42.00
*	570.000	2713.89	730.00	4.09	6.43	9.06	5.03	219.35	144.50	366.15	84.03	211.62	42.10
*	670.000	2760.00	409.00	2.70	3.23	7.79	6.17	4.61	251.89	152.50	37.87	421.77	46.95
*	670.000	2760.37	547.00	3.07	3.82	8.53	6.55	9.64	328.96	208.40	41.20	400.63	46.92
*	670.000	2760.53	610.00	3.23	4.02	8.77	6.65	12.55	362.54	234.92	42.69	385.26	46.94
*	670.000	2760.83	730.00	3.53	4.30	9.08	6.92	18.72	420.65	290.63	44.82	354.60	46.94
*	760.000	2822.54	409.00	3.04	2.14	7.75	6.62	1.66	243.18	164.16	36.60	435.86	62.54
*	760.000	2822.94	547.00	3.44	2.95	8.41	6.87	6.84	320.57	219.58	40.96	396.61	62.57
*	760.000	2823.10	610.00	3.60	3.23	8.67	6.98	10.32	354.35	245.33	42.75	383.81	62.57
*	760.000	2823.39	730.00	3.89	3.67	9.12	7.18	18.55	416.48	294.97	45.87	366.16	62.56

MING SPRINGS WASH (F

S RY PRINTOUT TABLE 150

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
	10.000	.00	.00	.00	2528.00	409.00	2530.62	.00	2531.10	187.51	6.39	77.23	29.87
	10.000	.00	.00	.00	2528.00	547.00	2530.92	.00	2531.48	188.20	6.88	95.92	39.87
	10.000	.00	.00	.00	2528.00	610.00	2531.04	.00	2531.63	188.77	7.08	103.97	44.40
	10.000	.00	.00	.00	2528.00	730.00	2531.25	.00	2531.90	189.33	7.41	118.83	53.05
*	40.000	170.00	.00	.00	2534.70	409.00	2537.03	2537.03	2537.62	202.40	7.37	77.41	28.75
*	40.000	170.00	.00	.00	2534.70	547.00	2537.31	2537.31	2537.97	191.20	8.00	97.01	39.56
*	40.000	170.00	.00	.00	2534.70	610.00	2537.41	2537.41	2538.12	190.19	8.29	104.93	44.23
*	40.000	170.00	.00	.00	2534.70	730.00	2537.59	2537.59	2538.39	192.49	8.86	118.52	52.62
*	70.000	160.00	.00	.00	2541.20	409.00	2544.79	2544.79	2545.77	265.47	8.29	52.74	25.10
*	70.000	160.00	.00	.00	2541.20	547.00	2545.34	2545.34	2546.35	232.52	8.47	69.65	35.87
*	70.000	160.00	.00	.00	2541.20	610.00	2545.63	2545.63	2546.56	200.00	8.19	83.94	43.13
*	70.000	160.00	.00	.00	2541.20	730.00	2545.99	2545.99	2546.89	177.92	8.13	106.33	54.73
*	120.000	260.00	.00	.00	2554.90	409.00	2557.24	2557.24	2557.88	296.61	7.01	66.53	23.75
*	120.000	260.00	.00	.00	2554.90	547.00	2557.53	2557.53	2558.28	274.56	7.67	83.58	33.01
*	120.000	260.00	.00	.00	2554.90	610.00	2557.66	2557.66	2558.45	265.88	7.92	91.23	37.41
	120.000	260.00	.00	.00	2554.90	730.00	2557.88	2557.88	2558.74	253.04	8.34	105.38	45.89
*	210.000	480.00	.00	.00	2580.10	409.00	2582.94	2582.94	2583.58	266.02	7.67	69.66	25.08
*	210.000	480.00	.00	.00	2580.10	547.00	2583.21	2583.21	2583.97	261.40	8.39	84.82	33.83
*	210.000	480.00	.00	.00	2580.10	610.00	2583.33	2583.33	2584.13	256.98	8.65	91.63	38.05
*	210.000	480.00	.00	.00	2580.10	730.00	2583.54	2583.54	2584.42	253.46	9.13	103.64	45.85
*	330.000	630.00	.00	.00	2624.70	409.00	2626.34	2626.34	2626.79	296.03	6.38	82.54	23.77
*	330.000	630.00	.00	.00	2624.70	547.00	2626.53	2626.53	2627.06	290.28	6.98	100.70	32.11
*	330.000	630.00	.00	.00	2624.70	610.00	2626.62	2626.62	2627.18	285.67	7.21	108.83	36.09
*	330.000	630.00	.00	.00	2624.70	730.00	2626.77	2626.77	2627.39	280.07	7.61	123.45	43.62
*	410.000	420.00	.00	.00	2642.40	409.00	2645.00	2645.00	2645.91	202.37	8.77	60.72	28.75
*	410.000	420.00	.00	.00	2642.40	547.00	2645.42	2645.42	2646.48	197.35	9.58	75.55	38.94
*	410.000	420.00	.00	.00	2642.40	610.00	2645.59	2645.59	2646.71	194.58	9.89	82.16	43.73
*	410.000	420.00	.00	.00	2642.40	730.00	2645.90	2645.90	2647.12	192.84	10.46	93.90	52.57
*	470.000	320.00	.00	.00	2667.60	409.00	2671.18	2671.18	2671.84	210.82	7.29	73.37	28.17
*	470.000	320.00	.00	.00	2667.60	547.00	2671.48	2671.48	2672.23	205.38	7.94	91.83	38.17
*	470.000	320.00	.00	.00	2667.60	610.00	2671.59	2671.59	2672.39	207.54	8.25	98.94	42.34
*	470.000	320.00	.00	.00	2667.60	730.00	2671.79	2671.79	2672.68	213.19	8.83	111.31	50.00
*	570.000	530.00	.00	.00	2709.80	409.00	2713.05	2713.05	2713.74	274.92	8.82	65.33	24.67
*	570.000	530.00	.00	.00	2709.80	547.00	2713.45	2713.45	2714.13	248.37	9.07	88.42	34.71
*	570.000	530.00	.00	.00	2709.80	610.00	2713.59	2713.59	2714.28	243.47	9.22	98.88	39.09
*	570.000	530.00	.00	.00	2709.80	730.00	2713.89	2713.89	2714.53	211.62	9.06	122.93	50.18

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
*	570.000	530.00	.00	.00	2757.30	409.00	2760.00	2760.00	2760.80	421.77	7.79	58.48	19.92
*	670.000	530.00	.00	.00	2757.30	547.00	2760.37	2760.37	2761.31	400.63	8.53	72.92	27.33
*	670.000	530.00	.00	.00	2757.30	610.00	2760.53	2760.53	2761.51	385.26	8.77	79.82	31.08
*	670.000	530.00	.00	.00	2757.30	730.00	2760.83	2760.83	2761.87	354.60	9.08	92.73	38.77
*	760.000	480.00	.00	.00	2819.50	409.00	2822.54	2822.54	2823.37	435.86	7.75	56.94	19.59
*	760.000	480.00	.00	.00	2819.50	547.00	2822.94	2822.94	2823.88	396.61	8.41	72.36	27.47
*	760.000	480.00	.00	.00	2819.50	610.00	2823.10	2823.10	2824.09	383.81	8.67	79.20	31.14
*	760.000	480.00	.00	.00	2819.50	730.00	2823.39	2823.39	2824.45	366.16	9.12	91.78	38.15

ING SPRINGS WASH (F

Y PRINTOUT TABLE 150

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	10.000	409.00	2530.62	.00	.00	.00	58.95	.00
	10.000	547.00	2530.92	.30	.00	.00	65.70	.00
	10.000	610.00	2531.04	.12	.00	.00	68.40	.00
	10.000	730.00	2531.25	.21	.00	.00	73.13	.00
*	40.000	409.00	2537.03	.00	6.41	.00	69.17	170.00
*	40.000	547.00	2537.31	.28	6.39	.00	72.97	170.00
*	40.000	610.00	2537.41	.11	6.37	.00	74.46	170.00
*	40.000	730.00	2537.59	.18	6.34	.00	76.93	170.00
*	70.000	409.00	2544.79	.00	7.76	.00	27.67	160.00
*	70.000	547.00	2545.34	.55	8.03	.00	42.02	160.00
*	70.000	610.00	2545.63	.29	8.21	.00	54.65	160.00
*	70.000	730.00	2545.99	.37	8.40	.00	66.74	160.00
*	120.000	409.00	2557.24	.00	12.45	.00	55.97	260.00
*	120.000	547.00	2557.53	.29	12.20	.00	60.79	260.00
*	120.000	610.00	2557.66	.12	12.03	.00	62.83	260.00
	120.000	730.00	2557.88	.22	11.88	.00	66.44	260.00
*	210.000	409.00	2582.94	.00	25.70	.00	54.35	480.00
*	210.000	547.00	2583.21	.27	25.68	.00	56.71	480.00
*	210.000	610.00	2583.33	.12	25.68	.00	57.76	480.00
*	210.000	730.00	2583.54	.20	25.66	.00	59.56	480.00
*	330.000	409.00	2626.34	.00	43.40	.00	92.33	630.00
*	330.000	547.00	2626.53	.19	43.32	.00	95.98	630.00
*	330.000	610.00	2626.62	.08	43.28	.00	97.57	630.00
*	330.000	730.00	2626.77	.15	43.23	.00	100.37	630.00
*	410.000	409.00	2645.00	.00	18.66	.00	34.17	420.00
*	410.000	547.00	2645.42	.42	18.88	.00	36.81	420.00
*	410.000	610.00	2645.59	.18	18.98	.00	37.92	420.00
*	410.000	730.00	2645.90	.30	19.13	.00	39.82	420.00
*	470.000	409.00	2671.18	.00	26.18	.00	60.33	320.00
*	470.000	547.00	2671.48	.30	26.06	.00	62.25	320.00
*	470.000	610.00	2671.59	.11	26.00	.00	62.97	320.00
*	470.000	730.00	2671.79	.19	25.89	.00	64.21	320.00
*	570.000	409.00	2713.05	.00	41.87	.00	47.24	530.00
*	570.000	547.00	2713.45	.40	41.97	.00	69.28	530.00
*	570.000	610.00	2713.59	.14	42.00	.00	77.22	530.00
*	570.000	730.00	2713.89	.30	42.10	.00	84.03	530.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	570.000	409.00	2760.00	.00	46.95	.00	37.87	530.00
*	670.000	547.00	2760.37	.37	46.92	.00	41.20	530.00
*	670.000	610.00	2760.53	.16	46.94	.00	42.69	530.00
*	670.000	730.00	2760.83	.29	46.94	.00	44.82	530.00
*	760.000	409.00	2822.54	.00	62.54	.00	36.60	480.00
*	760.000	547.00	2822.94	.40	62.57	.00	40.96	480.00
*	760.000	610.00	2823.10	.16	62.57	.00	42.75	480.00
*	760.000	730.00	2823.39	.28	62.56	.00	45.87	480.00

ARY OF ERRORS AND SPECIAL NOTES

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CAUTION SECNO=     40.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     40.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     40.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     40.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     40.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     40.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     40.000  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     40.000  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     40.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     40.000  PROFILE=  4  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     40.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=     70.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     70.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     70.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     70.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     70.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     70.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     70.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     70.000  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     70.000  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     70.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     70.000  PROFILE=  4  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     70.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=    120.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    120.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    120.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    120.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    120.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    120.000  PROFILE=  3  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    120.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    120.000  PROFILE=  4  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    120.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=    210.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    210.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    210.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    210.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    210.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    210.000  PROFILE=  3  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    210.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    210.000  PROFILE=  4  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    330.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    330.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    330.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    330.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    330.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    330.000  PROFILE=  3  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    330.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
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[illegible]ION SECNO=    330.000  PROFILE=  4  MINIMUM SPECIFIC ENERGY

C    ON SECNO=    410.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    410.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    410.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    410.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    410.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    410.000  PROFILE=  3  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    410.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    410.000  PROFILE=  4  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    470.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    470.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    470.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    470.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    470.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    470.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    470.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    470.000  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    470.000  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    470.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    470.000  PROFILE=  4  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    470.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=    570.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
[illegible]ION SECNO=    570.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
[illegible]TION SECNO=    570.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
C    ON SECNO=    570.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
C[illegible]ON SECNO=    570.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    570.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    570.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    570.000  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    570.000  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    570.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    570.000  PROFILE=  4  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    570.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=    670.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    670.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    670.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    670.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    670.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    670.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    670.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    670.000  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    670.000  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    670.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    670.000  PROFILE=  4  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    670.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=    760.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
[illegible]ION SECNO=    760.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    760.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
C    ON SECNO=    760.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
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[illegible]ION SECNO=   760.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   760.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
C[illegible]ON SECNO=   760.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   760.000  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   760.000  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   760.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   760.000  PROFILE=  4  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   760.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL
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*****************************************************
*  WATER SURFACE PROFILES                           *
*  VERSION OF SEPTEMBER 1988                        *
*  ERROR: 01,02,03                                  *
*  UPDATED:  SEPTEMBER 1989                         *
*  RUN DATE     4/10/90    TIME    17: 0:56         *
*****************************************************
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*************************************
*  U.S. ARMY CORPS OF ENGINEERS
*  THE HYDROLOGIC ENGINEERING CENTER
*  609 SECOND STREET, SUITE D
*  DAVIS, CALIFORNIA 95616-4687
*           (916) 756-1104
*************************************
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FS. MCX

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X     X  XXXXXXX   XXXXX              XXXXX
X     X  X       X     X            X     X
X     X  X       X                        X
XXXXXXX  XXXX    X          XXXXX    XXXXX
X     X  X       X                  X
X     X  X       X     X            X
X     X  XXXXXXX   XXXXX            XXXXXXX
```

END OF BANNER

THIS RUN EXECUTED 4/10/90 17: 0:56

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**************************************************
 HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989


 ERROR CORR -  01,02,03
 MODIFICATION -
**************************************************


T1      FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LA027815.H2
T2      100-YEAR FLOOD FREQUENCY MODEL (NATURAL CONDITIONS)
T3      FLEMMING SPR. WASH (FS.MCE)

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

              2                         .019                                2531.04

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

     1                -1


J3  VARIABLE CODES FOR SUMMARY PRINTOUT

    38       43       26        8       42       39        1       34        4       53
    21       22       54        0       38       43        1       50       51       27
    21       22       28        5        3       61      200

J5  LPRNT    NUMSEC                 ********REQUESTED SECTION NUMBERS********

   -10      -10

QT      2      610      610
ET                      9.1                                                      9985.9    10005.0
NC   .055     .055     .038       .1       .3
        THIS ENCROACHMENT MODEL IS BASED ON 100-YEAR NATURAL CONDITIONS.
        REFER TO FILE FS.OUT (CH2M HILL, 1990)

X1     10        5     9960    10000       40       40       40
GR   2536     9900     2532     9960     2528    10000     2532    10050     2544    10100

ET                      9.1                                                      9993.2    10023.3
X1     40       11  10000.0  10020.8      170      170      170
GR 2556.3   9892.0   2546.2   9916.7   2537.9   9937.9   2537.8   9966.1   2534.7   10000.0
GR 2536.3  10020.8   2536.3  10041.6   2542.5  10059.4   2552.0  10090.2   2554.8   10110.6
GR 2556.6  10119.4
```

N			.045							
ET			9.1						9998.3	10025.2
X1	70	15	9998.3	10026.2	160	160	160			
GR	2563.8	9895.9	2559.8	9920.4	2555.9	9945.3	2556.5	9974.0	2548.3	9984.9
GR	2541.2	9998.3	2541.2	10000.0	2546.1	10026.2	2546.1	10048.3	2545.2	10068.9
GR	2545.4	10079.5	2554.8	10104.5	2561.1	10128.0	2563.9	10159.6	2563.9	10163.3
ET			9.1						9970.6	10000.0
X1	120	12	9971.3	10000.0	250	270	260			
GR	2575.8	9845.2	2565.3	9886.2	2559.4	9909.8	2558.3	9940.9	2554.9	9971.3
GR	2556.5	9993.5	2556.4	10000.0	2559.0	10019.6	2558.5	10043.7	2565.2	10060.9
GR	2574.2	10085.0	2577.5	10092.3						
ET			9.1						9996.8	10029.1
X1	210	16	9998.3	10013.6	490	470	480			
GR	2599.0	9850.6	2597.1	9903.4	2592.3	9935.1	2592.2	9958.0	2586.7	9969.0
GR	2583.0	9986.4	2580.1	9998.3	2580.3	10000.0	2582.4	10013.6	2581.4	10034.7
GR	2583.8	10044.5	2590.0	10060.5	2589.9	10081.0	2594.1	10098.3	2599.2	10120.4
GR	2604.2	10137.3								
NH	4	99	9919.6	.055	10000.0	.045	10027.6	.055	10119.9	
ET			9.1						9985.9	10027.6
X1	330	13	10000.0	10027.6	630	630	630			
GR	2639.7	9811.2	2629.9	9839.1	2628.0	9859.8	2628.0	9887.8	2627.5	9919.6
GR	2625.5	9953.0	2625.4	9977.6	2625.6	10000.0	2624.7	10027.6	2634.1	10048.7
GR	2640.2	10080.0	2642.4	10116.0	2642.6	10119.9				
	.06	.06	.045							
ET			9.1						9995.2	10012.3
X1	410	14	10000.0	10012.3	430	410	420			
GR	2654.2	9866.2	2655.0	9895.3	2656.2	9914.8	2653.0	9934.6	2650.3	9954.9
GR	2649.8	9968.4	2644.5	9986.9	2643.1	9995.8	2642.4	10000.0	2642.5	10012.3
GR	2646.2	10022.7	2647.2	10035.8	2659.0	10055.0	2665.2	10078.4		
ET			9.1						9997.6	10025.6
X1	470	19	9997.6	10018.5	320	320	320			
GR	2690.5	9799.6	2687.5	9828.1	2684.7	9862.6	2680.4	9905.0	2681.1	9919.6
GR	2677.8	9935.8	2675.1	9949.7	2674.4	9976.4	2673.9	9985.0	2667.6	9997.6
GR	2668.4	10000.0	2670.5	10018.5	2670.5	10047.8	2675.4	10069.2	2676.2	10094.7
GR	2678.3	10111.6	2684.1	10132.0	2689.2	10155.3	2691.7	10161.4		
ET			9.1						9991.1	10011.4
NC			.06							
X1	570	21	9996.0	10000.0	540	520	530			
GR	2735.6	9844.4	2729.9	9876.9	2724.8	9909.8	2720.0	9938.1	2719.8	9966.1
GR	2719.8	9973.4	2713.0	9982.5	2709.8	9996.0	2710.0	10000.0	2712.4	10014.6
GR	2713.6	10030.9	2712.9	10045.0	2714.7	10082.0	2717.4	10105.6	2720.6	10130.6
GR	2722.4	10166.2	2723.4	10188.7	2722.8	10206.8	2727.1	10216.5	2728.8	10236.2
GR	2730.5	10240.1								

ET			9.1						9983.0	10003.9
X1	670	14	9983.0	10000.0	520	540	530			
GR	2779.4	9797.2	2771.8	9820.6	2764.9	9842.8	2765.1	9876.8	2764.5	9901.5
GR	2767.7	9916.6	2765.0	9934.0	2765.0	9968.7	2758.9	9983.0	2757.3	10000.0
GR	2760.7	10023.0	2768.6	10041.7	2776.1	10057.9	2780.6	10068.9		
ET			9.1						9983.1	10003.7
X1	760	22	9983.1	10000.0	490	470	480			
GR	2847.2	9785.2	2842.2	9800.3	2839.0	9804.0	2839.4	9819.1	2833.8	9831.0
GR	2827.0	9849.8	2827.0	9859.3	2825.9	9895.4	2826.0	9928.1	2826.0	9929.9
GR	2826.9	9950.3	2824.8	9968.4	2822.0	9983.1	2819.5	9999.1	2819.6	10000.0
GR	2824.7	10029.2	2825.6	10055.2	2831.1	10071.8	2835.5	10090.7	2833.4	10112.7
GR	2831.8	10127.3	2838.3	10145.1						

```
T1      FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LA027815.H2
        100 YEAR FLOOD FREQUENCY MODEL
T3      FLEMMING SPR. WASH (FS.MCE)

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

              3                                                      2532.04

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

    15                 -1
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THIS RUN EXECUTED 4/10/90 17: 1:11

****
HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989

ERROR CORR - 01,02,03
MODIFICATION -
****

NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

FLEMMING SPR. WASH (FS.

SUMMARY PRINTOUT

	SECNO	Q	VCH	DEPTH	ELMIN	XLCH	CWSEL	.01K	TOPWID	SSTA	STCHL	STCHR	ENDST
	10.000	610.00	7.08	3.04	2528.00	.00	2531.04	44.40	68.40	9969.60	9960.00	10000.00	10038.00
	10.000	610.00	10.45	4.04	2528.00	.00	2532.04	45.34	19.10	9985.90	9960.00	10000.00	10005.00
*	40.000	610.00	8.29	2.71	2534.70	170.00	2537.41	44.23	74.46	9970.34	10000.00	10020.80	10044.79
*	40.000	610.00	9.79	3.14	2534.70	170.00	2537.84	42.85	30.10	9993.20	10000.00	10020.80	10023.30
	70.000	610.00	8.19	4.43	2541.20	160.00	2545.63	43.13	54.65	9989.95	9998.30	10026.20	10080.10
	70.000	610.00	9.12	4.69	2541.20	160.00	2545.89	36.15	26.79	9998.30	9998.30	10026.20	10025.09
*	120.000	610.00	7.92	2.76	2554.90	260.00	2557.66	37.41	62.83	9946.65	9971.30	10000.00	10009.48
*	120.000	610.00	8.91	3.33	2554.90	260.00	2558.23	38.39	29.40	9970.60	9971.30	10000.00	10000.00
*	210.000	610.00	8.65	3.23	2580.10	480.00	2583.33	38.05	57.76	9984.83	9998.30	10013.60	10042.59
*	210.000	610.00	9.94	3.83	2580.10	480.00	2583.93	39.07	32.30	9996.80	9998.30	10013.60	10029.10
*	330.000	610.00	7.21	1.92	2624.70	630.00	2626.62	36.09	97.57	9934.33	10000.00	10027.60	10031.90
*	330.000	610.00	8.37	2.50	2624.70	630.00	2627.20	36.64	41.70	9985.90	10000.00	10027.60	10027.60
*	410.000	610.00	9.89	3.20	2642.40	420.00	2645.59	43.73	37.92	9983.08	10000.00	10012.30	10021.00
*	410.000	610.00	10.98	3.61	2642.40	420.00	2646.01	36.19	17.10	9995.20	10000.00	10012.30	10012.30
*	470.000	610.00	8.25	3.99	2667.60	320.00	2671.59	42.34	62.97	9989.61	9997.60	10018.50	10052.58
*	470.000	610.00	9.43	4.50	2667.60	320.00	2672.10	37.15	28.00	9997.60	9997.60	10018.50	10025.60
*	570.000	610.00	9.22	3.79	2709.80	530.00	2713.59	39.09	77.22	9981.71	9996.00	10000.00	10059.22
*	570.000	610.00	12.47	3.89	2709.80	530.00	2713.69	29.45	20.30	9991.10	9996.00	10000.00	10011.40
*	670.000	610.00	8.77	3.23	2757.30	530.00	2760.53	31.08	42.69	9979.17	9983.00	10000.00	10021.87
*	670.000	610.00	10.26	3.67	2757.30	530.00	2760.97	27.44	20.90	9983.00	9983.00	10000.00	10003.90
*	760.000	610.00	8.67	3.60	2819.50	480.00	2823.10	31.14	42.75	9977.31	9983.10	10000.00	10020.06
*	760.000	610.00	10.33	4.04	2819.50	480.00	2823.54	27.56	20.60	9983.10	9983.10	10000.00	10003.70

EMMING SPR. WASH (FS.

SUMMARY PRINTOUT

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	STENCL	STCHL	STCHR	STENCR	10*KS	EG	DIFEG
	10.000	610.00	2531.04	.00	.00	.00	9960.00	10000.00	.00	188.77	2531.63	.00
	10.000	610.00	2532.04	1.00	.00	9985.90	9960.00	10000.00	10005.00	180.97	2533.52	1.89
*	40.000	610.00	2537.41	.00	6.37	.00	10000.00	10020.80	.00	190.19	2538.12	.00
*	40.000	610.00	2537.84	.43	5.80	9993.20	10000.00	10020.80	10023.30	202.63	2539.12	1.00
*	70.000	610.00	2545.63	.00	8.21	.00	9998.30	10026.20	.00	200.00	2546.56	.00
*	70.000	610.00	2545.89	.27	8.05	9998.30	9998.30	10026.20	10025.20	284.74	2547.19	.62
*	120.000	610.00	2557.66	.00	12.03	.00	9971.30	10000.00	.00	265.88	2558.45	.00
*	120.000	610.00	2558.23	.57	12.33	9970.60	9971.30	10000.00	10000.00	252.45	2559.45	1.00
*	210.000	610.00	2583.33	.00	25.68	.00	9998.30	10013.60	.00	256.98	2584.13	.00
*	210.000	610.00	2583.93	.60	25.70	9996.80	9998.30	10013.60	10029.10	243.83	2585.13	1.00
*	330.000	610.00	2626.62	.00	43.28	.00	10000.00	10027.60	.00	285.67	2627.18	.00
*	330.000	610.00	2627.20	.58	43.27	9985.90	10000.00	10027.60	10027.60	277.16	2628.16	.98
*	410.000	610.00	2645.59	.00	18.98	.00	10000.00	10012.30	.00	194.58	2646.71	.00
*	410.000	610.00	2646.01	.42	18.81	9995.20	10000.00	10012.30	10012.30	284.08	2647.72	1.01
	470.000	610.00	2671.59	.00	26.00	.00	9997.60	10018.50	.00	207.54	2672.39	.00
	470.000	610.00	2672.10	.50	26.09	9997.60	9997.60	10018.50	10025.60	269.63	2673.39	1.00
*	570.000	610.00	2713.59	.00	42.00	.00	9996.00	10000.00	.00	243.47	2714.28	.00
*	570.000	610.00	2713.69	.10	41.59	9991.10	9996.00	10000.00	10011.40	428.97	2715.28	1.00
*	670.000	610.00	2760.53	.00	46.94	.00	9983.00	10000.00	.00	385.26	2761.51	.00
*	670.000	610.00	2760.97	.43	47.27	9983.00	9983.00	10000.00	10003.90	494.04	2762.50	.99
*	760.000	610.00	2823.10	.00	62.57	.00	9983.10	10000.00	.00	383.81	2824.09	.00
*	760.000	610.00	2823.54	.43	62.57	9983.10	9983.10	10000.00	10003.70	489.84	2825.09	1.00

SUMMARY OF ERRORS AND SPECIAL NOTES

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CAUTION SECNO=    40.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    40.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    40.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    40.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    40.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    70.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    70.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    70.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    70.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    70.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    70.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=   120.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   120.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   120.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   120.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=   210.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   210.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   210.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   210.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=   330.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   330.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   330.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   330.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   330.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=   410.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   410.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   410.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   410.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=   470.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   470.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   470.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   470.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   470.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   470.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=   570.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   570.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   570.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   570.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   570.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   570.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=   670.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   670.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   670.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
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TION SECNO=    670.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
TION SECNO=    670.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    670.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=    760.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    760.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    760.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    760.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    760.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    760.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
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FLOODWAY DATA, FLEMMING SPR. WASH (FS. |
PROFILE NO. 2

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WATER SURFACE ELEVATION WITHOUT FLOODWAY	DIFFERENCE
10.000	19.	66.	9.2	2532.0	2531.0	1.0
40.000	30.	72.	8.5	2537.8	2537.4	.4
70.000	27.	67.	9.1	2545.9	2545.6	.3
120.000	29.	70.	8.7	2558.2	2557.7	.5
210.000	32.	76.	8.0	2583.9	2583.3	.6
330.000	42.	80.	7.6	2627.2	2626.6	.6
410.000	17.	59.	10.3	2646.0	2645.6	.4
470.000	28.	70.	8.7	2672.1	2671.6	.5
570.000	20.	63.	9.7	2713.7	2713.6	.1
670.000	21.	62.	9.9	2761.0	2760.5	.5
760.000	21.	62.	9.9	2823.5	2823.1	.4