THIS RUN EXECUTED 08/01/81 8:19:32

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  HEC2 RELEASE DATED NOV 76 UPDATED JULY1979
  ERROR CORR -  01,02,03
  MODIFICATION -  50,51,52,53,54
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T1      WAYNESVILLE NC                          BROWNI  12-1-80 GNC                          5
T2      10 YEAR FLOOD                           JCL KEY = HCDQ134                           10
T3      BROWNING BRANCH                         FLOOD PROFILES                              15

J1  ICHECK     INQ    NINV    IDIR    STRT  METRIC   HVINS     Q      WSEL     FQ
          0.      2.      0.      0. 0.00500      0.     0.0      0.     0.0     0.0       20

J2  NPROF   IPLOT   PRFVS    XSECV   XSECH      FN   ALLDC     IBW  CHNIM ITRACE
          0.      0.     -1.      0.      0.     0.0     0.0      0.      0.      0.       25

J3  VARIABLE CODES FOR SUMMARY PRINTOUT

       150.00    0.0  160.00  201.00    0.0     0.0     0.0     0.0     0.0     0.0       30

   NC  0.100   0.070   0.045     0.1     0.5                                               35
   QT      5.    900.   1600.   1900.   2900.   1900.      0.      0.      0.      0.       40
   ET     0.     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0       45


   X1   0.05      21.     260.    280.      0.      0.      0.     0.0     0.0      0.       50
   GR 2707.3      60.  2706.2    130.  2730.0    130.  2730.0    170.  2705.3    170.       55
   GR 2705.0     200.  2705.3    215.  2702.5    240.  2703.0    250.  2701.0    260.       60
   GR 2698.5     260.  2698.6    265.  2699.0    270.  2701.5    280.  2706.0    300.       65
   GR 2706.0     330.  2706.3    334.  2705.5    340.  2703.0    343.  2706.0    530.       70
   GR 2706.0     670.     0.0      0.     0.0      0.     0.0      0.     0.0      0.       75
   NC  0.070   0.070   0.045     0.0     0.0                                               80
   ET     0.     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0       85


   X1   0.14      26.     318.    330.    450.    450.    450.     0.0     0.0      0.       90
   GR 2720.0      55.  2715.0     63.  2712.7     65.  2711.7     91.  2711.4    119.       95
   GR 2710.1     121.  2707.5    122.  2707.5    125.  2711.3    126.  2711.2    134.      100
   GR 2711.0     200.  2711.2    230.  2708.5    300.  2708.7    318.  2706.0    320.      105
   GR 2705.5     322.  2705.5    324.  2706.0    326.  2709.2    330.  2709.7    342.      110
   GR 2709.3     342.  2709.3    392.  2709.7    392.  2709.8    487.  2710.3    487.      115
   GR 2710.3     495.     0.0      0.     0.0      0.     0.0      0.     0.0      0.      120
   NC  0.090   0.070   0.045     0.0     0.0                                               125
   ET     0.     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0      130


   X1   0.18      18.     300.    321.    250.    230.    230.     0.0     0.0      0.      135
   GR 2714.7      35.  2714.5     40.  2714.5     65.  2715.7     75.  2714.8    130.      140
   GR 2725.0     130.  2725.0    230.  2713.2    230.  2712.5    285.  2712.6    300.      145
   GR 2709.0     306.  2708.6    309.  2709.0    315.  2712.8    321.  2712.2    490.      150
   GR 2712.7     490.  2713.2    557.  2720.0    584.     0.0      0.     0.0      0.      155
   ET     0.     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0      160
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B01

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X1   0.21     20.    300.    320.    150.    100.    100.    0.0     0.0     0.     165
GR 2725.0     35.   2718.6    35.   2718.4    45.   2715.5    50.   2718.2    52.   170
GR 2717.6     90.   2716.6   127.   2716.6   160.   2730.0   160.   2730.0   210.  175
GR 2716.9    210.   2717.0   257.   2714.7   300.   2711.0   306.   2710.5   310.  180
GR 2711.0    315.   2714.8   320.   2717.2   400.   2718.7   598.   2720.0   620.  185
ET    0.     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0   190

X1   0.21      0.     0.      0.     40.     40.     40.     0.0     0.0     0.    195
ET    0.     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0   200

X1   0.21     23.    300.    320.     1.      1.      1.     0.0     0.0     0.    205
BT    6.0   257.0  2717.0     0.0   300.0  2717.9     0.0   300.0  2717.9  2716.1  210
BT  320.0  2717.9  2716.1   320.0  2717.9     0.0   350.0  2717.6     0.0     0.0  215
GR 2725.0     35.   2718.6    35.   2718.4    45.   2715.5    50.   2718.2    52.   220
GR 2717.6     90.   2716.6   127.   2716.6   160.   2730.0   160.   2730.0   210.  225
GR 2716.9    210.   2717.0   257.   2717.9   300.   2712.5   300.   2711.4   304.  230
GR 2710.5    306.   2710.9   309.   2711.4   320.   2717.9   320.   2717.6   350.  235
GR 2717.2    400.   2718.7   598.   2720.0   620.     0.0     0.      0.0     0.    240
ET    0.     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0   245

X1   0.21      0.     0.      0.     20.     20.     20.     0.0     0.0     0.    250
X2    0.     0.0     0.     0.0     0.0     0.0      1.     0.0     0.0     0.    255
ET    0.     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0   260

X1   0.21     20.    300.    320.     1.      1.      1.     0.0     0.0     0.    265
GR 2725.0     35.   2718.6    35.   2718.4    45.   2715.5    50.   2718.2    52.   270
GR 2717.6     90.   2716.6   127.   2716.6   160.   2730.0   160.   2730.0   210.  275
GR 2716.9    210.   2717.0   257.   2714.7   300.   2711.0   306.   2710.5   310.  280
GR 2711.0    315.   2714.8   320.   2717.2   400.   2718.7   598.   2720.0   620.  285
ET    0.     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0   290

X1   0.21      0.     0.      0.     10.     10.     10.     0.0     0.0     0.    295
NC  0.120    0.120  0.050     0.0     0.0                                          300
ET    0.     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0   305

X1   0.25      0.     0.      0.    130.     80.     80.     0.0     3.50    0.    310
ET    0.     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0   315

X1   0.25      0.     0.      0.     40.     40.     40.     0.0     0.0     0.    320
ET    0.     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0   325

X1   0.25     75.    220.    329.     1.      1.      1.     0.0     0.0     0.    330
BT   14.0    55.0  2723.7     0.0    55.0  2723.7  2721.3   103.0  2723.3  2720.8  335
BT  103.0  2723.3     0.0   125.0  2723.0     0.0   150.0  2722.5     0.0   180.0  340
BT 2722.0     0.0   204.0  2721.7     0.0   220.0  2721.5     0.0   220.0  2721.5  345
BT 2719.1   329.0  2720.0  2717.7   329.0  2720.0     0.0   350.0  2719.8     0.0  350
BT  388.0  2719.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0  355
GR 2750.0     55.   2718.5    55.   2718.4    60.   2718.6    66.   2721.2    66.  360
GR 2721.1     67.   2718.7    67.   2719.5    78.   2721.0    78.   2721.0    79.  365
GR 2719.5     79.   2719.5    91.   2721.0    91.   2721.0    92.   2719.5    92.  370
GR 2720.0    103.   2723.3   103.   2723.2   115.   2723.0   125.   2722.5   150.  375
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C01

GR	2722.0	180.	2721.4	204.	2721.5	220.	2717.5	220.	2715.7	229.	380
GR	2719.0	229.	2719.0	230.	2715.8	230.	2716.0	241.	2719.0	241.	385
GR	2718.9	242.	2716.0	242.	2715.8	250.	2715.8	253.	2718.8	253.	390
GR	2718.7	254.	2715.8	254.	2716.0	259.	2715.8	268.	2718.4	268.	395
GR	2718.4	269.	2715.8	269.	2715.7	282.	2718.3	282.	2718.2	283.	400
GR	2715.7	283.	2715.7	293.	2715.1	296.	2718.0	296.	2718.0	297.	405
GR	2715.0	297.	2715.0	303.	2714.5	303.	2714.2	309.	2718.0	309.	410
GR	2718.0	310.	2714.3	310.	2714.0	312.	2714.1	315.	2715.0	318.	415
GR	2715.0	320.	2717.9	320.	2717.8	321.	2715.0	321.	2716.5	324.	420
GR	2720.0	329.	2717.5	350.	2718.5	355.	2718.0	370.	2718.2	372.	425
GR	2718.5	386.	2719.0	388.	2719.0	392.	2718.3	397.	2718.2	405.	430
ET	0.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	435
X1	0.25	0.	0.	0.	30.	30.	30.	0.0	0.0	0.	440
X2	0.	0.0	0.	0.0	0.0	0.0	1.	0.0	0.0	0.	445
ET	0.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	450
X1	0.25	38.	220.	329.	1.	1.	1.	0.0	0.0	0.	455
GR	2718.5	55.	2718.4	60.	2719.5	78.	2719.5	92.	2720.0	103.	460
GR	2720.2	104.	2720.3	110.	2721.0	120.	2721.1	122.	2721.4	145.	465
GR	2720.0	173.	2720.0	187.	2717.5	220.	2715.7	229.	2716.0	241.	470
GR	2715.8	250.	2715.8	253.	2716.0	259.	2715.8	268.	2715.7	282.	475
GR	2715.7	293.	2715.0	303.	2714.5	303.	2714.2	309.	2714.0	312.	480
GR	2714.1	315.	2715.0	318.	2715.0	320.	2716.5	329.	2717.5	350.	485
GR	2718.5	355.	2718.0	370.	2718.2	372.	2718.5	386.	2719.0	388.	490
GR	2719.0	392.	2718.3	397.	2718.2	405.	0.0	0.	0.0	0.	495
NC	0.100	0.100	0.050	0.0	0.0						500
ET	0.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	505
X1	0.26	16.	305.	345.	25.	25.	25.	0.0	0.0	0.	510
GR	2721.0	150.	2720.0	185.	2718.0	188.	2718.0	192.	2719.2	196.	515
GR	2719.0	305.	2717.5	315.	2715.5	325.	2715.5	335.	2716.0	338.	520
GR	2717.9	345.	2718.5	386.	2719.0	387.	2719.0	395.	2718.3	400.	525
GR	2718.3	405.	0.0	0.	0.0	0.	0.0	0.	0.0	0.	530
NC	0.080	0.080	0.050	0.0	0.0						535
QT	5.	900.	1600.	1900.	2900.	1900.	0.	0.	0.	0.	540
ET	0.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	545
X1	0.30	20.	240.	273.	200.	200.	200.	0.0	-2.50	0.	550
GR	2727.8	80.	2727.0	105.	2724.3	150.	2723.3	200.	2724.0	230.	555
GR	2727.3	240.	2721.8	253.	2721.3	257.	2721.3	258.	2721.4	263.	560
GR	2725.7	273.	2724.8	275.	2724.6	292.	2725.5	300.	2725.5	310.	565
GR	2740.0	310.	2740.0	350.	2724.3	350.	2724.8	390.	2740.0	390.	570
NC	0.080	0.080	0.045	0.0	0.0						575
QT	5.	900.	1600.	1900.	2895.	1900.	0.	0.	0.	0.	580
ET	0.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	585
X1	0.34	19.	240.	273.	210.	210.	210.	0.0	0.0	0.	590
GR	2727.2	115.	2727.1	130.	2724.4	150.	2723.3	200.	2724.0	230.	595
GR	2727.5	240.	2721.8	253.	2721.2	257.	2721.4	263.	2721.8	265.	600
GR	2725.8	273.	2724.8	275.	2724.5	300.	2724.3	350.	2725.8	458.	605
GR	2726.0	462.	2726.0	485.	2726.4	489.	2727.8	543.	0.0	0.	610
NC	0.100	0.110	0.040	0.0	0.0						615
QT	5.	895.	1595.	1895.	2890.	1895.	0.	0.	0.	0.	620
ET	0.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	625

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X1   0.43     19.    380.    400.    540.    540.    540.     0.0     0.0      0.   630
GR 2762.0      0.  2762.0    100.  2762.0    250.  2732.7     250.  2734.5    370.   635
GR 2733.5    380.  2730.5    380.  2730.1    389.  2730.5     399.  2733.5    400.   640
GR 2733.8    423.  2734.0    440.  2733.5    460.  2734.4     500.  2734.8    525.   645
GR 2736.0    575.  2734.8    581.  2736.5    700.  2737.1     800.     0.0      0.   650
NC   0.100  0.070   0.040     0.0     0.0                                            655
QT       5.   895.  1595.   1890.  2890.   1890.      0.       0.       0.       0.   660
ET       0.   0.0    0.0     0.0    0.0     0.0     0.0      0.0      0.0      0.0  665

X1   0.46     19.    380.    400.    180.    180.    180.     0.0     1.00      0.   670
GR 2770.0      0.  2732.7      0.  2732.5    235.  2732.7     250.  2734.5    370.   675
GR 2733.5    380.  2730.5    380.  2730.1    389.  2730.5     399.  2733.5    400.   680
GR 2733.8    423.  2734.0    440.  2733.5    460.  2734.4     500.  2734.8    525.   685
GR 2736.0    575.  2734.8    581.  2736.5    700.  2737.1     800.     0.0      0.   690
QT       5.   895.  1595.   1890.  2885.   1890.      0.       0.       0.       0.   695
ET       0.   0.0    0.0     0.0    0.0     0.0     0.0      0.0      0.0      0.0  700

X1   0.48     16.    301.    317.     40.     40.     40.     0.0      0.0      0.   705
GR 2736.7    100.  2736.4    150.  2736.4    200.  2736.7     250.  2736.8    280.   710
GR 2737.0    301.  2733.3    302.  2733.2    305.  2733.5     312.  2733.9    317.   715
GR 2737.0    317.  2736.7    413.  2736.3    478.  2736.6     478.  2737.0    512.   720
GR 2737.5    800.     0.0      0.     0.0      0.     0.0      0.       0.0      0.   725
ET       0.   0.0    0.0     0.0    0.0     0.0     0.0      0.0      0.0      0.0  730

X1   0.48      0.     0.      0.     40.     40.     40.     0.0      0.0      0.   735
ET       0.   0.0    0.0     0.0    0.0     0.0     0.0      0.0      0.0      0.0  740

X1   0.48     16.    301.    317.      1.      1.      1.     0.0      0.0      0.   745
BT    14.0   100.0 2736.7     0.0   150.0 2736.4     0.0    200.0 2736.4     0.0   750
BT   250.0  2737.4    0.0   300.0  2738.3    0.0    302.0  2738.3    0.0    302.0  755
BT  2738.3  2737.9  317.0  2738.3  2737.9  317.0   2738.3     0.0  413.0   2736.7  760
BT     0.0   478.0 2736.3     0.0   478.0 2736.6     0.0    512.0 2737.0     0.0   765
BT   800.0  2737.5    0.0     0.0     0.0    0.0     0.0      0.0    0.0      0.0   770
GR 2736.7    100.  2736.4    150.  2736.4    200.  2737.4     250.  2738.3    300.   775
GR 2737.9    301.  2733.3    302.  2733.2    305.  2733.5     312.  2738.3    317.   780
GR 2738.3    317.  2736.7    413.  2736.3    478.  2736.6     478.  2737.0    512.   785
GR 2737.5    800.     0.0      0.     0.0      0.     0.0      0.       0.0      0.   790
ET       0.   0.0    0.0     0.0    0.0     0.0     0.0      0.0      0.0      0.0  795

X1   0.48      0.     0.      0.     30.     30.     30.     0.0      0.0      0.   800
X2       0.   0.0    0.      0.0    0.0     0.0      1.     0.0      0.0      0.   805
ET       0.   0.0    0.0     0.0    0.0     0.0     0.0     0.0      0.0      0.0  810

X1   0.48     16.    301.    317.      1.      1.      1.     0.0      0.0      0.   815
GR 2736.7    100.  2736.4    150.  2736.4    200.  2736.7     250.  2736.8    280.   820
GR 2737.0    301.  2733.3    302.  2733.2    305.  2733.5     312.  2733.9    317.   825
GR 2737.0    317.  2736.7    413.  2736.3    478.  2736.6     478.  2737.0    512.   830
GR 2737.5    800.     0.0      0.     0.0      0.     0.0      0.       0.0      0.   835
ET       0.   0.0    0.0     0.0    0.0     0.0     0.0      0.0      0.0      0.0  840

X1   0.48      0.     0.      0.     10.     10.     10.     0.0      0.0      0.   845
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E01

NC	0.090	0.060	0.045	0.0	0.0						850
QT	5.	895.	1590.	1890.	2885.	1890.	0.	0.	0.	0.	855
ET	0.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	860
X1	0.51	10.	347.	363.	130.	130.	130.	0.0	0.0	0.	865
GR	2750.0	285.	2740.2	300.	2739.4	347.	2737.0	350.	2736.0	352.	870
GR	2737.0	361.	2739.2	363.	2740.0	578.	2741.9	604.	2749.2	615.	875
ET	0.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	880
X1	0.51	0.	0.	0.	40.	40.	40.	0.0	0.0	0.	885
ET	0.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	890
X1	0.51	22.	330.	362.	1.	1.	1.	0.0	0.0	0.	895
BT	6.0	300.0	2746.0	0.0	330.0	2745.2	0.0	330.0	2745.2	2741.0	900
BT	362.0	2744.4	2742.0	362.0	2744.4	0.0	450.0	2741.8	0.0	0.0	905
GR	2746.6	255.	2746.0	300.	2745.2	330.	2737.5	330.	2737.0	332.	910
GR	2738.0	340.	2741.3	340.	2741.3	341.	2738.0	341.	2738.3	345.	915
GR	2737.5	351.	2741.7	351.	2741.7	352.	2737.5	352.	2737.0	355.	920
GR	2737.5	362.	2744.3	362.	2741.8	450.	2739.8	512.	2740.0	578.	925
GR	2741.9	604.	2749.2	615.	0.0	0.	0.0	0.	0.0	0.	930
ET	0.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	935
X1	0.54	0.	0.	0.	180.	50.	180.	0.0	0.0	0.	940
X2	0.	0.0	0.	0.0	0.0	0.0	1.	0.0	0.0	0.	945
ET	0.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	950
X1	0.54	20.	347.	364.	1.	1.	1.	0.0	0.0	0.	955
GR	2750.0	267.	2741.2	287.	2741.2	300.	2740.6	347.	2737.0	353.	960
GR	2737.4	355.	2737.4	357.	2738.0	361.	2740.3	364.	2742.0	482.	965
GR	2741.2	512.	2741.7	515.	2741.7	520.	2741.7	525.	2740.8	537.	970
GR	2740.3	537.	2740.3	570.	2740.9	570.	2740.9	575.	2741.8	603.	975
ET	0.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	980
X1	0.5[illegible]	0.	0.	0.	30.	30.	30.	0.0	0.0	0.	985
NC	0.100	0.100	0.045	0.0	0.0						990
QT	5.	890.	1590.	1885.	2875.	1885.	0.	0.	0.	0.	995
ET	0.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000
X1	0.61	22.	200.	[illegible]	300.	300.	300.	0.0	0.0	0.	1005
GR	2746.5	0.	2745.7	47.	2745.7	128.	2746.3	150.	2746.3	175.	1010
GR	2744.8	200.	2740.8	208.	2740.3	211.	2740.8	217.	2746.8	225.	1015
GR	2746.8	253.	2747.0	259.	2746.1	285.	2755.0	285.	2755.0	335.	1020
GR	2745.2	335.	2744.3	370.	2744.7	415.	2744.9	465.	2743.9	505.	1025
GR	2744.5	518.	2760.0	550.	0.0	0.	0.0	0.	0.0	0.	1030
ET	0.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1035
X1	0.61	24.	200.	225.	40.	40.	40.	0.0	0.0	0.	1040
GR	2746.5	0.	2745.7	47.	2745.7	128.	2746.3	150.	2746.3	175.	1045
GR	2744.8	200.	2743.0	204.	2742.3	205.	2742.0	208.	2742.0	212.	1050
GR	2742.3	212.	2743.3	220.	2746.8	225.	2746.8	253.	2747.0	259.	1055
GR	2746.1	285.	2755.0	285.	2755.0	335.	2745.2	335.	2744.3	370.	1060
GR	2744.7	415.	2744.9	465.	2743.9	505.	2744.5	518.	0.0	0.	1065

F01

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ET    0.    0.0    0.0    0.0    0.0    0.0    0.0    0.0    0.0    0.0    1070

X1  0.61     25.   204.   221.     1.     1.     1.    0.0    0.0     0.    1075
BT   6.0  197.0 2746.5    0.0  204.0 2746.7    0.0  204.0 2747.5 2745.5    1080
BT 221.0 2747.8 2746.0  221.0 2747.0    0.0  230.0 2747.2    0.0    0.0    1085
GR 2746.5    0.  2745.7    47. 2745.7   128. 2746.3   150. 2746.5   197.    1090
GR 2746.7   204. 2743.0   204. 2742.4   205. 2742.0   208. 2742.0   212.    1095
GR 2742.3   212. 2743.0   218. 2746.0   221. 2747.0   221. 2747.2   230.    1100
GR 2747.0   258. 2746.1   285. 2755.0   285. 2755.0   335. 2745.2   335.    1105
GR 2744.3   370. 2744.7   415. 2744.9   465. 2743.9   505. 2744.5   518.    1110

X1  0.61     0.     0.     0.    30.    30.    30.    0.0    0.0     0.    1115
X2    0.   0.0     0.   0.0    0.0    0.0     1.    0.0    0.0     0.    1120
ET    0.   0.0    0.0    0.0    0.0    0.0    0.0    0.0    0.0    0.0    1125

X1  0.61    24.   200.   225.     1.     1.     1.    0.0    0.0     0.    1130
GR 2746.5    0.  2745.7    47. 2745.7   128. 2746.3   150. 2746.3   175.    1135
GR 2744.8   200. 2743.0   204. 2742.3   205. 2742.0   208. 2742.0   212.    1140
GR 2742.3   212. 2743.3   220. 2746.8   225. 2746.8   253. 2747.0   259.    1145
GR 2746.1   285. 2755.0   285. 2755.0   335. 2745.2   335. 2744.3   370.    1150
GR 2744.7   415. 2744.9   465. 2743.9   505. 2744.5   518.    0.0     0.    1155
ET    0.   0.0    0.0    0.0    0.0    0.0    0.0    0.0    0.0    0.0    1160

X1  0.61     0.     0.     0.    10.    10.    10.    0.0    0.0     0.    1165
NC 0.120  0.110  0.060    0.0    0.0                                       1170
QT    5.   890.  1585.  1880.  2865.  1880.     0.     0.     0.     0.    1175
ET    0.   0.0    0.0    0.0    0.0    0.0    0.0    0.0    0.0    0.0    1180

X1  0.74    21.   505.   542.   570.   570.   570.    0.0    0.0     0.    1185
GR 2759.8    0. 2758.9   100. 2758.5   200. 2758.3   300. 2758.5   400.    1190
GR 2758.7   460. 2756.5   505. 2752.5   505. 2751.8   508. 2751.8   512.    1195
GR 2751.3   515. 2751.5   520. 2752.5   520. 2756.5   542. 2756.8   550.    1200
GR 2774.0   550. 2774.0   580. 2757.6   580. 2758.0   600. 2756.6   700.    1205
GR 2760.0  1015.    0.0     0.    0.0     0.    0.0     0.    0.0     0.    1210
ET    0.   0.0    0.0    0.0    0.0    0.0    0.0    0.0    0.0    0.0    1215

X1  0.74     0.     0.     0.    40.    40.    40.    0.0    0.0     0.    1220
SB  1.25   1.60   3.00     0.  15.00   0.01 130.00   2.10 2751.5 2751.5    1225
ET    0.   0.0    0.0    0.0    0.0    0.0    0.0    0.0    0.0    0.0    1230

X1  0.74     0.     0.     0.    30.    30.    30.    0.0    0.0     0.    1235
X2    0.   0.0     1. 2756.6 2756.5    0.0     0.    0.0    0.0     0.    1240
BT  17.0    0.0 2759.8    0.0  100.0 2758.9    0.0  200.0 2758.5    0.0    1245
BT 300.0 2758.3    0.0  400.0 2758.5    0.0  460.0 2758.7    0.0  505.0    1250
BT 2758.8    0.0  505.0 2762.3    0.0  543.0 2762.3    0.0  543.0 2758.7    1255
BT   0.0  550.0 2758.7    0.0  550.0 2774.0    0.0  580.0 2774.0    0.0    1260
BT 580.0 2758.2    0.0  600.0 2758.0    0.0  700.0 2756.6    0.0 1015.0    1265
BT 2760.0    0.0    0.0    0.0    0.0    0.0    0.0    0.0    0.0    0.0    1270
NC 0.110  0.100  0.050    0.0    0.0                                       1275
ET    0.   0.0    0.0    0.0    0.0    0.0    0.0    0.0    0.0    0.0    1280

X1  0.74     0.     0.     0.    10.    10.    10.    0.0    0.0     0.    1285
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G01

NC	0.100	0.100	0.045	0.0	0.0						1290
QT	5.	885.	1580.	1875.	2860.	1875.	0.	0.	0.	0.	1295
ET	0.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1300
X1	0.80	35.	250.	275.	300.	300.	300.	0.0	-1.00	0.	1305
GR	2760.8	25.	2760.5	58.	2760.3	60.	2759.5	81.	2759.9	110.	1310
GR	2760.0	150.	2760.8	180.	2760.8	185.	2770.0	185.	2770.0	215.	1315
GR	2760.8	215.	2760.4	225.	2759.4	240.	2759.2	250.	2756.5	257.	1320
GR	2756.0	262.	2755.8	268.	2756.5	272.	2759.6	275.	2759.7	285.	1325
GR	2770.0	285.	2770.0	315.	2760.3	315.	2760.5	322.	2760.3	330.	1330
GR	2770.0	330.	2770.0	360.	2759.7	360.	2759.5	375.	2760.2	392.	1335
GR	2759.8	421.	2759.4	471.	2759.0	492.	2760.3	508.	2760.3	530.	1340
ET	0.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1345
X1	0.80	0.	0.	0.	40.	40.	40.	0.0	0.0	0.	1350
SB	1.25	1.60	3.00	0.	11.00	0.01	55.00	0.50	2754.8	2754.8	1355
ET	0.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1360
X1	0.80	0.	0.	0.	30.	30.	30.	0.0	0.0	0.	1365
X2	0.	0.0	1.	2759.0	2759.0	0.0	0.	0.0	0.0	0.	1370
BT	24.0	30.0	2760.8	0.0	58.0	2760.8	0.0	61.0	2760.5	0.0	1375
BT	90.0	2760.0	0.0	118.0	2760.3	0.0	130.0	2760.0	0.0	150.0	1380
BT	2760.0	0.0	180.0	2760.8	0.0	215.0	2760.8	0.0	231.0	2760.0	1385
BT	0.0	250.0	2760.2	0.0	250.0	2761.5	0.0	253.0	2761.5	2759.0	1390
BT	269.0	2761.6	2759.0	269.0	2761.2	0.0	285.0	2760.0	0.0	323.0	1395
BT	2760.5	0.0	375.0	2759.4	0.0	392.0	2760.2	0.0	421.0	2759.8	1400
BT	0.0	471.0	2759.4	0.0	492.0	2759.0	0.0	508.0	2760.3	0.0	1405
BT	530.0	2760.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1410
ET	0.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1415
X1	0.80	32.	250.	272.	30.	30.	30.	0.0	0.0	0.	1420
GR	2760.8	25.	2760.5	58.	2760.3	60.	2759.5	81.	2759.9	110.	1425
GR	2760.0	150.	2760.8	180.	2760.8	185.	2770.0	185.	2770.0	215.	1430
GR	2760.8	215.	2760.4	225.	2759.4	240.	2759.2	250.	2756.5	257.	1435
GR	2756.0	262.	2755.8	268.	2756.5	272.	2759.6	275.	2760.1	297.	1440
GR	2760.5	322.	2760.3	330.	2770.0	330.	2770.0	360.	2759.7	360.	1445
GR	2759.5	375.	2760.2	392.	2759.8	421.	2759.4	471.	2759.0	492.	1450
GR	2760.3	508.	2760.3	530.	0.0	0.	0.0	0.	0.0	0.	1455
NC	0.100	0.060	0.040	0.0	0.0						1460
QT	5.	885.	1575.	1865.	2850.	1865.	0.	0.	0.	0.	1465
ET	0.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1470
X1	0.98	15.	246.	274.	900.	900.	900.	0.0	0.0	0.	1475
GR	2780.0	0.	2773.0	0.	2773.2	40.	2773.8	135.	2773.7	157.	1480
GR	2773.9	180.	2774.3	205.	2773.4	246.	2771.5	252.	2768.5	267.	1485
GR	2773.5	274.	2773.8	410.	2774.8	575.	2776.2	650.	2780.0	668.	1490
ET	0.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1495
X1	0.98	0.	0.	0.	40.	40.	40.	0.0	0.0	0.	1500
ET	0.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1505
X1	0.98	26.	254.	269.	1.	1.	1.	0.0	0.0	0.	1510
BT	11.0	210.0	2774.2	0.0	250.0	2774.9	0.0	250.0	2775.6	0.0	1515

HO1

BT	254.0	2775.6	2771.5	256.0	2775.6	2772.9	261.0	2775.6	2774.4	264.0	1520
BT	2775.6	2773.0	267.0	2775.6	2772.0	269.0	2775.6	2770.0	269.0	2774.7	1525
BT	0.0	284.0	2774.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1530
GR	2780.0	0.	2773.0	0.	2773.2	40.	2773.8	135.	2773.7	157.	1535
GR	2773.9	180.	2774.3	205.	2774.2	210.	2774.9	250.	2774.8	254.	1540
GR	2770.4	254.	2770.2	256.	2769.5	261.	2768.9	264.	2768.5	267.	1545
GR	2770.0	269.	2774.7	269.	2774.4	284.	2774.9	284.	2774.2	305.	1550
GR	2774.0	369.	2773.7	372.	2773.8	410.	2774.8	575.	2776.2	650.	1555
GR	2780.0	668.	0.0	0.	0.0	0.	0.0	0.	0.0	0.	1560
ET	0.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1565
X1	0.98	0.	0.	0.	30.	30.	30.	0.0	0.0	0.	1570
X2	0.	0.0	0.	0.0	0.0	0.0	1.	0.0	0.0	0.	1575
ET	0.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1580
X1	0.98	10.	246.	274.	20.	20.	20.	0.0	0.0	0.	1585
GR	2780.0	0.	2775.0	0.	2775.0	180.	2773.4	246.	2771.5	253.	1590
GR	2768.5	267.	2773.5	274.	2773.8	410.	2774.8	575.	2776.2	650.	1595
ET	0.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1600
X1	0.98	17.	250.	281.	20.	20.	20.	0.0	0.0	0.	1605
GR	2780.0	0.	2775.0	0.	2775.0	180.	2773.4	246.	2773.2	250.	1610
GR	2771.5	260.	2771.2	264.	2771.3	269.	2771.9	272.	2774.9	281.	1615
GR	2774.4	316.	2774.8	350.	2774.7	400.	2775.1	500.	2776.2	600.	1620
GR	2776.2	650.	2780.0	668.	0.0	0.	0.0	0.	0.0	0.	1625
NC	0.085	0.085	0.045	0.0	0.0						1630
QT	5.	600.	1100.	1300.	2000.	1300.	0.	0.	0.	0.	1635
ET	0.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1640
X1	1.19	26.	511.	531.	1100.	1100.	1100.	0.0	0.0	0.	1645
GR	2792.0	0.	2791.0	100.	2790.5	200.	2791.6	300.	2791.5	330.	1650
GR	2804.0	330.	2804.0	370.	2791.5	370.	2792.5	400.	2792.1	440.	1655
GR	2790.4	445.	2790.3	450.	2791.5	500.	2791.7	511.	2787.0	511.	1660
GR	2786.0	520.	2787.0	526.	2791.6	531.	2791.5	550.	2810.0	550.	1665
GR	2810.0	640.	2791.5	640.	2791.6	700.	2792.5	800.	2796.2	890.	1670
GR	2799.5	965.	0.0	0.	0.0	0.	0.0	0.	0.0	0.	1675
ET	0.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1680
X1	1.19	0.	0.	0.	40.	40.	40.	0.0	0.0	0.	1685
SB	1.25	1.60	3.00	0.	6.00	0.01	27.00	0.0	2787.3	2787.3	1690
ET	0.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1695
X1	1.19	23.	511.	531.	30.	30.	30.	0.0	0.0	0.	1700
X2	0.	0.0	1.	2791.8	2791.8	0.0	0.	0.0	0.0	0.	1705
BT	20.0	0.0	2792.0	0.0	50.0	2791.8	0.0	200.0	2791.8	0.0	1710
BT	300.0	2791.8	0.0	330.0	2791.8	0.0	330.0	2804.0	0.0	370.0	1715
BT	2804.0	0.0	370.0	2791.8	0.0	400.0	2792.5	0.0	440.0	2792.1	1720
BT	0.0	445.0	2791.8	0.0	450.0	2791.8	0.0	500.0	2791.8	0.0	1725
BT	520.0	2791.9	0.0	526.0	2791.8	0.0	535.0	2791.8	0.0	700.0	1730
BT	2791.8	0.0	800.0	2792.5	0.0	890.0	2796.2	0.0	965.0	2799.5	1735
BT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1740
GR	2792.0	0.	2791.0	100.	2790.5	200.	2791.6	300.	2791.5	330.	1745
GR	2804.0	330.	2804.0	370.	2791.5	370.	2792.5	400.	2792.1	440.	1750
GR	2790.4	445.	2790.3	450.	2791.5	500.	2791.7	511.	2787.0	511.	1755

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GR 2786.0   520.  2787.0   526.  2791.6   531.  2791.5   600.  2791.6   700.  1760
GR 2792.5   800.  2796.2   890.  2799.5   965.     0.0     0.     0.0     0.  1765
ET    0.    0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0 1770

X1   1.19     0.     0.     0.    10.    10.    10.    0.0    0.0     0.  1775
NC  0.100   0.100  0.040    0.0    0.0                                        1780
QT      5.   600.  1100.  1300.  2000.  1300.     0.     0.     0.     0.  1785
ET    0.    0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0 1790

X1   1.30    21.   300.   318.   480.   480.   480.    0.0    0.0     0.  1795
GR 2800.5    21.  2800.5   65.  2801.0  129.  2800.5  132.  2800.4  181.  1800
GR 2799.9   263.  2800.1  286.  2800.2  300.  2797.0  304.  2796.3  309.  1805
GR 2797.0   313.  2799.0  318.  2798.0  340.  2800.1  400.  2799.8  429.  1810
GR 2800.7   457.  2801.4  479.  2801.8  505.  2801.8  546.  2802.4  568.  1815
GR 2805.3   600.     0.0     0.     0.0     0.     0.0     0.     0.0     0.  1820
ET    0.    0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0 1825

X1   1.30     0.     0.     0.    40.    40.    40.    0.0    0.0     0.  1830
SB   1.25    1.60   3.00     0.   5.00  0.01   38.00   1.90  2796.3  2796.3 1835
ET    0.    0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0 1840

X1   1.30     0.     0.     0.    30.    30.    30.    0.0    0.0     0.  1845
X2      0.    0.0      1.  2799.7  2801.0     0.0     0.    0.0     0.0     0.  1850
BT      9.0   0.0  2803.0     0.0   200.0  2801.6     0.0   268.0  2801.0     0.0 1855
BT  300.0  2801.1     0.0   300.0  2802.0     0.0   321.0  2802.3     0.0   321.0 1860
BT 2801.3     0.0   400.0  2801.8     0.0   700.0  2806.8     0.0     0.0     0.0 1865
ET    0.    0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0 1870

X1   1.30     0.     0.     0.    10.    10.    10.    0.0    0.0     0.  1875
EJ                                                                        1880
```

*PROF 1

CCHV= 0.100 CEHV= 0.500
*SECNO .050
2096 WSEL NOT GIVEN,AVG OF MAX,MIN USED

3265 DIVIDED FLOW

BROWNING BRANCH			10 YEAR FLOOD		08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
0.05	900.	101.	653.	146.	0.47	0	174.	
2704.59	0.0	64.	103.	102.	0.50	0	2701.00	
6.09	0.0	1.58	6.37	1.43	0.0	2705.06	2701.50	
0.005009	0.0	0.100	0.045	0.070	0.0	-0.00	221.32	
	2698.50	0.	0.	0.	49.	172.	442.24	0.

*SECNO .140

3265 DIVIDED FLOW

3280 CROSS SECTION 0.14 EXTENDED 0.05 FEET

BROWNING BRANCH			10 YEAR FLOOD		08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

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

0.14	900.	267.	371.	262.	0.50	20	248.	
2710.35	2710.35	88.	45.	122.	0.03	13	2708.70	
4.85	0.0	3.05	8.21	2.16	3.50	2710.85	2709.20	
0.013735	0.045	0.070	0.045	0.070	0.01	-0.00	120.61	
	2705.50	450.	450.	450.	203.	171.	495.00	3.

*SECNO .180

BROWNING BRANCH			10 YEAR FLOOD		08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

0.18	900.	55.	497.	348.	0.42	3	328.	
2713.43	2713.43	45.	73.	190.	-0.07	6	2712.60	
4.83	0.0	1.21	6.84	1.83	2.62	2713.85	2712.80	

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  0.009321     0.045     0.090     0.045     0.070     0.01      0.0      230.00
             2708.60      250.      230.      230.       81.      247.     557.92         4.

*SECNO .210

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

    BROWNING BRANCH                  10 YEAR FLOOD          08/01/81
   MILE       Q          QLOB        QCH       QROB       HV        ITRIAL     TOPWID
   ELEV       CRIWS      ALOB        ACH       AROB       DHV       IDC         BANK ELEV
   DEPTH      WSELK      VLOB        VCH       VROB       HL        EG       LEFT/RIGHT
   SLOPE      WTN        XNL         XNCH      XNR        OLOSS     CORAR       SSTA
              ELMIN      XLOBL       XLCH      XLOBR      WSDL      WSDR        ENDST        VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     0.21       900.        39.       787.        74.      1.09         20       103.
  2716.32    2716.32        25.        88.        38.      0.67          8    2714.70
     5.82        0.0       1.53       8.95       1.92      1.07    2717.41    2714.80
  0.011830     0.044      0.090      0.045      0.070      0.34      -0.00      48.59
             2710.50       150.       100.       100.      261.        61.     370.56         5.

*SECNO .210

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

    BROWNING BRANCH                  10 YEAR FLOOD          08/01/81
   MILE       Q          QLOB        QCH       QROB       HV        ITRIAL     TOPWID
   ELEV       CRIWS      ALOB        ACH       AROB       DHV       IDC         BANK ELEV
   DEPTH      WSELK      VLOB        VCH       VROB       HL        EG       LEFT/RIGHT
   SLOPE      WTN        XNL         XNCH      XNR        OLOSS     CORAR       SSTA
              ELMIN      XLOBL       XLCH      XLOBR      WSDL      WSDR        ENDST        VOL

     0.21       900.       126.       603.       171.      0.32          4       282.
  2717.39        0.0       129.       109.       114.     -0.77          0    2714.70
     6.89        0.0       0.98       5.51       1.50      0.23    2717.72    2714.80
  0.003349     0.044      0.090      0.045      0.070      0.08      -0.00      46.74
             2710.50        40.        40.        40.      263.       115.     425.19         5.

*SECNO .210

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3370 NORMAL BRIDGE,NRD=   6 MIN ELTRD= 2717.00 MAX ELLC= 2716.10
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0.21	900.	27.	873.	0.	1.21	8	97.	
2716.96	2715.18	18.	98.	0.	0.88	12	2717.90	
6.46	0.0	1.52	8.95	0.0	0.01	2718.17	2717.90	
0.035846	0.044	0.090	0.045	0.070	0.44	-17.16	47.49	
	2710.50	1.	1.	1.	263.	10.	320.00	5.

*SECNO .210

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3370 NORMAL BRIDGE,NRD= 6 MIN ELTRD= 2717.00 MAX ELLC= 2716.10

0.21	900.	360.	324.	216.	0.07	5	469.	
2718.43	0.0	252.	108.	172.	-1.14	0	2717.90	
7.93	0.0	1.43	3.00	1.26	0.22	2718.50	2717.90	
0.005233	0.044	0.090	0.045	0.070	0.11	-36.00	43.54	
	2710.50	20.	20.	20.	266.	252.	562.26	5.

*SECNO .210

3265 DIVIDED FLOW

0.21	900.	227.	409.	264.	0.08	2	468.	
2718.43	0.0	320.	130.	294.	0.01	0	2714.70	
7.93	0.0	0.71	3.14	0.90	0.00	2718.50	2714.80	
0.000865	0.044	0.090	0.045	0.070	0.00	-0.00	43.62	
	2710.50	1.	1.	1.	266.	252.	562.04	5.

*SECNO .210

*** GR CARDS REPEATED

3265 DIVIDED FLOW

0.21	900.	228.	408.	265.	0.07	2	470.	
2718.44	0.0	322.	130.	296.	-0.00	0	2714.70	
7.94	0.0	0.71	3.13	0.89	0.01	2718.51	2714.80	
0.000855	0.044	0.090	0.045	0.070	0.00	-0.00	43.14	
	2710.50	10.	10.	10.	267.	253.	563.31	5.

*SECNO .250

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

BROWNING BRANCH 10 YEAR FLOOD 08/01/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
3685 20 TRIALS ATTEMPTED WSEL,CWSEL								
3693 PROBABLE MINIMUM SPECIFIC ENERGY								
3720 CRITICAL DEPTH ASSUMED								
0.25	900.	35.	813.	52.	1.18	20	105.	
2719.86	2719.86	27.	89.	40.	1.10	13	2718.20	
5.86	0.0	1.32	9.15	1.29	0.19	2721.03	2718.30	
0.015090	0.044	0.120	0.050	0.120	0.55	-0.00	48.52	
	2714.00	130.	80.	80.	261.	62.	371.92	6.
*SECNO .250								
*** GR CARDS REPEATED								
3265 DIVIDED FLOW								
3301 HV CHANGED MORE THAN HVINS								
0.25	900.	135.	631.	135.	0.34	4	310.	
2721.06	0.0	156.	113.	133.	-0.83	0	2718.20	
7.06	0.0	0.87	5.59	1.01	0.28	2721.40	2718.30	
0.004101	0.045	0.120	0.050	0.120	0.08	-0.00	46.46	
	2714.00	40.	40.	40.	264.	137.	446.94	7.
*SECNO .250								
3265 DIVIDED FLOW								
3280 CROSS SECTION 0.25 EXTENDED 3.19 FEET								
3370 NORMAL BRIDGE,NRD= 14 MIN ELTRD= 2719.00 MAX ELLC= 2721.30								
0.25	900.	56.	652.	192.	0.04	2	233.	
2721.39	0.0	83.	356.	155.	-0.30	0	2721.50	
7.39	0.0	0.67	1.83	1.24	0.00	2721.43	2720.00	
0.003903	0.045	0.120	0.050	0.120	0.03	-336.12	55.00	
	2714.00	1.	1.	1.	220.	131.	405.00	7.
*SECNO .250								
*** GR CARDS REPEATED								
3265 DIVIDED FLOW								
3280 CROSS SECTION 0.25 EXTENDED 3.31 FEET								

3370 NORMAL BRIDGE,NRD= 14 MIN ELTRD= 2719.00 MAX ELLC= 2721.30

0.25	900.	53.	647.	200.	0.04	0	253.	
2721.51	0.0	83.	368.	165.	-0.00	0	2721.50	
7.51	0.0	0.64	1.76	1.22	0.11	2721.55	2720.00	
0.003520	0.045	0.120	0.050	0.120	0.00	-343.42	55.00	
	2714.00	30.	30.	30.	220.	131.	405.00	7.

*SECNO .250

3280 CROSS SECTION 0.25 EXTENDED 3.33 FEET

0.25	900.	65.	743.	92.	0.02	2	350.	
2721.53	0.0	272.	646.	270.	-0.02	0	2717.50	
7.53	0.0	0.24	1.15	0.34	0.00	2721.55	2716.50	
0.000142	0.045	0.120	0.050	0.120	0.00	-0.00	55.00	
	2714.00	1.	1.	1.	220.	131.	405.00	7.

*SECNO .260

3280 CROSS SECTION 0.26 EXTENDED 3.22 FEET

BROWNING BRANCH 10 YEAR FLOOD 08/01/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
0.26	900.	253.	473.	174.	0.05	2	255.	
2721.52	0.0	333.	192.	190.	0.04	0	2719.00	
6.02	0.0	0.76	2.46	0.92	0.01	2721.57	2717.90	
0.000861	0.045	0.100	0.050	0.100	0.02	-0.00	150.00	
	2715.50	25.	25.	25.	175.	80.	405.00	8.

*SECNO .300

3265 DIVIDED FLOW

BROWNING BRANCH 10 YEAR FLOOD 08/01/81

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

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

0.30	900.	361.	490.	49.	0.54	20	185.	
2722.59	2722.59	115.	65.	30.	0.48	14	2724.80	
3.79	0.0	3.14	7.49	1.64	0.47	2723.13	2723.20	
0.020332	0.045	0.080	0.050	0.080	0.24	-0.00	136.76	
	2718.80	200.	200.	200.	120.	134.	390.00	10.

*SECNO .340

3265 DIVIDED FLOW

0.34	900.	312.	424.	164.	0.26	4	276.	
2725.42	0.0	139.	76.	116.	-0.28	0	2727.50	
4.22	0.0	2.25	5.57	1.41	2.52	2725.68	2725.80	
0.007920	0.045	0.080	0.045	0.080	0.03	-0.00	142.44	
	2721.20	210.	210.	210.	114.	174.	430.72	11.

*SECNO .430

BROWNING BRANCH			10 YEAR FLOOD		08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

0.43	895.	169.	643.	82.	0.65	1	263.	
2734.61	2734.61	127.	84.	79.	0.39	8	2733.50	
4.51	0.0	1.33	7.61	1.04	4.39	2735.26	2733.50	
0.008361	0.044	0.100	0.040	0.110	0.20	0.0	250.00	
	2730.10	540.	540.	540.	140.	123.	512.98	15.

*SECNO .460

3301 HV CHANGED MORE THAN HVINS

0.46	895.	560.	268.	67.	0.05	2	521.	
2735.75	0.0	681.	87.	95.	-0.60	0	2734.50	
4.65	0.0	0.82	3.07	0.71	0.48	2735.80	2734.50	
0.001306	0.044	0.100	0.040	0.070	0.06	-0.00	0.0	
	2731.10	180.	180.	180.	390.	131.	521.45	17.

*SECNO .480
3280 CROSS SECTION 0.48 EXTENDED 0.78 FEET

BROWNING BRANCH			10 YEAR FLOOD		08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

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

0.48	895.	219.	401.	275.	0.30	20	691.	
2737.48	2737.48	182.	63.	216.	0.24	13	2737.00	
4.28	0.0	1.20	6.37	1.28	0.10	2737.78	2737.00	
0.007230	0.043	0.100	0.040	0.070	0.12	-0.00	100.00	
	2733.20	40.	40.	40.	209.	482.	791.14	18.

*SECNO .480

*** GR CARDS REPEATED
3280 CROSS SECTION 0.48 EXTENDED 1.18 FEET

0.48	895.	227.	271.	397.	0.08	2	700.	
2737.87	0.0	261.	69.	405.	-0.21	0	2737.00	
4.67	0.0	0.87	3.92	0.98	0.15	2737.96	2737.00	
0.002404	0.043	0.100	0.040	0.070	0.02	-0.00	100.00	
	2733.20	40.	40.	40.	209.	491.	800.00	18.

*SECNO .480

3265 DIVIDED FLOW

3280 CROSS SECTION 0.48 EXTENDED 1.17 FEET

3370 NORMAL BRIDGE,NRD= 14 MIN ELTRD= 2736.30 MAX ELLC= 2737.90

0.48	895.	216.	256.	423.	0.11	1	649.	
2737.86	0.0	195.	55.	346.	0.03	0	2737.90	
4.66	0.0	1.11	4.62	1.22	0.00	2737.97	2738.30	
0.004203	0.043	0.100	0.040	0.070	0.01	-2.27	100.00	
	2733.20	1.	1.	1.	209.	491.	800.00	18.

*SECNO .480

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3280 CROSS SECTION 0.48 EXTENDED 1.35 FEET

3370 NORMAL BRIDGE,NRD= 14 MIN ELTRD= 2736.30 MAX ELLC= 2737.90

0.48	895.	234.	157.	505.	0.04	2	670.	
2738.05	0.0	227.	56.	429.	-0.07	0	2737.90	
4.85	0.0	1.03	2.81	1.18	0.11	2738.09	2738.30	
0.003120	0.043	0.100	0.040	0.070	0.01	-4.71	100.00	
	2733.20	30.	30.	30.	209.	491.	800.00	19.

*SECNO .480
3280 CROSS SECTION 0.48 EXTENDED 1.35 FEET

0.48	895.	227.	234.	434.	0.05	0	700.	
2738.05	0.0	297.	72.	491.	0.01	0	2737.00	
4.85	0.0	0.76	3.25	0.88	0.00	2738.10	2737.00	
0.001570	0.043	0.100	0.040	0.070	0.01	0.0	100.00	
	2733.20	1.	1.	1.	209.	491.	800.00	19.

*SECNO .480

*** GR CARDS REPEATED
3280 CROSS SECTION 0.48 EXTENDED 1.37 FEET

BROWNING BRANCH			10 YEAR FLOOD		08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
0.48	895.	227.	231.	437.	0.05	0	700.	
2738.06	0.0	300.	72.	499.	-0.00	0	2737.00	
4.86	0.0	0.76	3.20	0.88	0.02	2738.11	2737.00	
0.001516	0.043	0.100	0.040	0.070	0.00	0.0	100.00	
	2733.20	10.	10.	10.	209.	491.	800.00	19.

*SECNO .510

BROWNING BRANCH			10 YEAR FLOOD		08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

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

0.51	895.	43.	397.	454.	0.40	20	285.	
2740.49	2740.49	33.	56.	194.	0.35	13	2739.40	
4.49	0.0	1.32	7.15	2.34	0.41	2740.89	2739.20	
0.010488	0.043	0.090	0.045	0.060	0.17	-0.00	299.55	
	2736.00	130.	130.	130.	55.	230.	584.76	21.

*SECNO .510

*** GR CARDS REPEATED

0.51	895.	62.	282.	551.	0.13	2	293.	
2741.01	0.0	57.	64.	310.	-0.27	0	2739.40	
5.01	0.0	1.08	4.42	1.78	0.22	2741.14	2739.20	
0.003332	0.043	0.090	0.045	0.060	0.03	-0.00	298.76	
	2736.00	40.	40.	40.	56.	237.	591.81	21.

*SECNO .510

3265 DIVIDED FLOW

3370 NORMAL BRIDGE,NRD= 6 MIN ELTRD= 2741.80 MAX ELLC= 2742.00

0.51	895.	0.	654.	241.	0.55	2	139.	
2740.80	0.0	0.	97.	81.	0.42	0	2745.20	
3.80	0.0	0.0	6.71	2.98	0.01	2741.35	2744.30	
0.019615	0.043	0.090	0.045	0.060	0.21	-0.00	330.00	
	2737.00	1.	1.	1.	16.	243.	589.14	21.

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*SECNO .540

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3370 NORMAL BRIDGE,NRD=   6 MIN ELTRD= 2741.80 MAX ELLC= 2742.00

     0.54       895.          0.       281.       614.      0.08          2       200.
  2742.18       0.0           0.       118.       270.     -0.47          0    2745.20
     5.18       0.0          0.0       2.38       2.27      0.86    2742.26    2744.30
 0.003787      0.044       0.090      0.045      0.060      0.05     -21.69     330.00
             2737.00        180.       180.        50.       16.       258.     604.42        22.

*SECNO .540
3280 CROSS SECTION       0.54 EXTENDED       0.31 FEET

      BROWNING BRANCH                  10 YEAR FLOOD         08/01/81
     MILE        Q          QLOB       QCH        QROB       HV         ITRIAL     TOPWID
     ELEV        CRIWS      ALOB       ACH        AROB       DHV        IDC        BANK ELEV
     DEPTH       WSELK      VLOB       VCH        VROB       HL         EG      LEFT/RIGHT
     SLOPE       WTN        XNL        XNCH       XNR        OLOSS      CORAR      SSTA
                 ELMIN      XLOBL      XLCH       XLOBR      WSDL       WSDR       ENDST       VOL

     0.54       895.         92.       361.       442.      0.22          2       318.
  2742.11       0.0          70.        66.       233.      0.14          0    2740.60
     5.11       0.0         1.31       5.50       1.89      0.00    2742.33    2740.30
 0.005243      0.044       0.090      0.045      0.060      0.07      -0.00     284.92
             2737.00          1.         1.         1.       71.       248.     603.00        22.

*SECNO .540

*** GR CARDS REPEATED
3280 CROSS SECTION       0.54 EXTENDED       0.53 FEET

     0.54       895.         98.       317.       480.      0.14          2       319.
  2742.32       0.0          83.        69.       284.     -0.08          0    2740.60
     5.32       0.0         1.18       4.57       1.69      0.12    2742.47    2740.30
 0.003381      0.044       0.090      0.045      0.060      0.01      -0.00     284.44
             2737.00         30.        30.        30.       71.       248.     603.00        22.

*SECNO .610

3265 DIVIDED FLOW

      BROWNING BRANCH                  10 YEAR FLOOD         08/01/81
     MILE        Q          QLOB       QCH        QROB       HV         ITRIAL     TOPWID
     ELEV        CRIWS      ALOB       ACH        AROB       DHV        IDC        BANK ELEV
     DEPTH       WSELK      VLOB       VCH        VROB       HL         EG      LEFT/RIGHT
     SLOPE       WTN        XNL        XNCH       XNR        OLOSS      CORAR      SSTA
                 ELMIN      XLOBL      XLCH       XLOBR      WSDL       WSDR       ENDST       VOL

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

	0.61	890.	4.	604.	282.	0.57	20	222.
	2745.58	2745.58	5.	83.	183.	0.43	6	2744.80
	5.28	0.0	0.81	7.30	1.54	1.64	2746.15	2746.80
	0.010425	0.044	0.100	0.045	0.100	0.22	-0.00	187.00
		2740.30	300.	300.	300.	26.	308.	520.23

25.

*SECNO .610

3265 DIVIDED FLOW

3280 CROSS SECTION 0.61 EXTENDED 1.81 FEET

	0.61	890.	61.	365.	464.	0.16	3	402.
	2746.31	0.0	86.	78.	316.	-0.41	0	2744.80
	4.31	0.0	0.71	4.71	1.47	0.27	2746.47	2746.80
	0.004799	0.044	0.100	0.045	0.100	0.04	-0.00	11.32
		2742.00	40.	40.	40.	201.	306.	518.00

25.

*SECNO .610

3265 DIVIDED FLOW

3280 CROSS SECTION 0.61 EXTENDED 1.91 FEET

3370 NORMAL BRIDGE,NRD= 6 MIN ELTRD= 2746.50 MAX ELLC= 2746.00

	0.61	890.	75.	171.	643.	0.08	2	379.
	2746.41	0.0	82.	51.	335.	-0.08	0	2746.70
	4.41	0.0	0.92	3.36	1.92	0.01	2746.48	2747.00
	0.007674	0.044	0.100	0.045	0.100	0.01	-11.17	5.50
		2742.00	1.	1.	1.	207.	306.	518.00

25.

*SECNO .610

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3280 CROSS SECTION 0.61 EXTENDED 2.12 FEET

BROWNING BRANCH			10 YEAR FLOOD		08/01/81		
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST VOL

3370 NORMAL BRIDGE,NRD= 6 MIN ELTRD= 2746.50 MAX ELLC= 2746.00

0.61	890.	108.	142.	640.	0.05	2	417.

2746.62	0.0	123.	51.	376.	-0.02	0	2746.70	
4.62	0.0	0.87	2.78	1.70	0.19	2746.67	2747.00	
0.005257	0.044	0.100	0.045	0.100	0.00	-14.81	0.0	
	2742.00	30.	30.	30.	213.	306.	518.00	25.

*SECNO .610

3265 DIVIDED FLOW

3280 CROSS SECTION 0.61 EXTENDED 2.10 FEET

0.61	890.	98.	324.	467.	0.10	2	422.	
2746.60	0.0	144.	85.	373.	0.04	0	2744.80	
4.60	0.0	0.68	3.83	1.25	0.00	2746.70	2746.80	
0.002886	0.044	0.100	0.045	0.100	0.02	-0.00	0.0	
	2742.00	1.	1.	1.	213.	306.	518.00	25.

*SECNO .610

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3280 CROSS SECTION 0.61 EXTENDED 2.14 FEET

0.61	890.	104.	319.	467.	0.09	0	423.	
2746.64	0.0	152.	86.	381.	-0.01	0	2744.80	
4.64	0.0	0.68	3.73	1.23	0.03	2746.73	2746.80	
0.002701	0.044	0.100	0.045	0.100	0.00	-0.00	0.0	
	2742.00	10.	10.	10.	213.	306.	518.00	25.

*SECNO .740

3301 HV CHANGED MORE THAN HVINS

BROWNING BRANCH			10 YEAR FLOOD		08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
3685 20 TRIALS ATTEMPTED WSEL,CWSEL								
3693 PROBABLE MINIMUM SPECIFIC ENERGY								
3720 CRITICAL DEPTH ASSUMED								
0.74	890.	0.	890.	0.	1.41	20	33.	
2755.85	2755.85	0.	93.	0.	1.32	8	2756.50	
4.55	0.0	0.0	9.53	0.0	3.97	2757.26	2756.50	
0.044969	0.047	0.120	0.060	0.110	0.66	-0.00	505.00	
	2751.30	570.	570.	570.	19.	15.	538.43	30.

*SECNO .740

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

0.74	890.	9.	812.	69.	0.38	2	231.	
2757.60	0.0	12.	157.	90.	-1.03	0	2756.50	
6.30	0.0	0.73	5.18	0.77	0.61	2757.98	2756.50	
0.007651	0.047	0.120	0.060	0.110	0.10	-0.00	482.53	
	2751.30	40.	40.	40.	41.	269.	792.49	30.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	15.00	0.01	130.00	2.10

ELCHU	ELCHD
2751.50	2751.50

*SECNO .740

*** GR CARDS REPEATED

3265 DIVIDED FLOW

BROWNING BRANCH			10 YEAR FLOOD		08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2757.98	2757.81	0.00	380.	510.	130.	131.	2756.60

ELTRD
2756.50

0.74	890.	9.	811.	70.	0.38	3	232.	
2757.60	0.0	12.	157.	90.	-0.00	0	2756.50	
6.30	0.0	0.73	5.17	0.77	0.00	2757.98	2756.50	
0.007615	0.047	0.120	0.060	0.110	0.0	-0.00	482.44	
	2751.30	30.	30.	30.	41.	269.	792.93	30.

*SECNO .740

*** GR CARDS REPEATED

3265 DIVIDED FLOW

0.74	890.	9.	806.	74.	0.36	0	250.	
2757.68	0.0	14.	160.	104.	-0.02	0	2756.50	
6.38	0.0	0.67	5.05	0.71	0.06	2758.04	2756.50	
0.004926	0.047	0.110	0.050	0.100	0.00	-0.00	480.90	

2751.30 10. 10. 10. 43. 276. 799.89 30.

*SECNO .800

3265 DIVIDED FLOW

3280 CROSS SECTION 0.80 EXTENDED 0.21 FEET

BROWNING BRANCH 10 YEAR FLOOD 08/01/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
7185 MINIMUM SPECIFIC ENERGY								
3720 CRITICAL DEPTH ASSUMED								
0.80	885.	90.	624.	171.	0.51	1	360.	
2759.51	2759.51	85.	92.	141.	0.15	13	2758.20	
4.71	0.0	1.05	6.75	1.21	1.86	2760.02	2758.60	
0.008068	0.047	0.100	0.045	0.100	0.07	-0.00	56.87	
	2754.80	300.	300.	300.	206.	268.	530.00	33.

*SECNO .800

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3280 CROSS SECTION 0.80 EXTENDED 0.75 FEET

0.80	885.	158.	482.	244.	0.18	3	415.	
2760.05	0.0	183.	106.	247.	-0.32	0	2758.20	
5.25	0.0	0.87	4.55	0.99	0.19	2760.24	2758.60	
0.003053	0.047	0.100	0.045	0.100	0.03	-0.00	25.00	
	2754.80	40.	40.	40.	238.	268.	530.00	33.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	11.00	0.01	55.00	0.50
ELCHU	ELCHD							
2754.80	2754.80							

*SECNO .800

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3280 CROSS SECTION 0.80 EXTENDED 1.23 FEET

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC	
2766.49	2760.24	0.00	624.	261.	55.	55.	2759.00	
ELTRD								
2759.00								
0.80	885.	205.	399.	281.	0.09	2	415.	
2760.53	0.0	275.	118.	340.	-0.10	0	2758.20	
5.73	0.0	0.75	3.38	0.83	0.38	2760.61	2758.60	
0.001464	0.047	0.100	0.045	0.100	0.0	-0.00	25.00	
	2754.80	30.	30.	30.	238.	268.	530.00	33.

*SECNO .800

3265 DIVIDED FLOW

3280 CROSS SECTION 0.80 EXTENDED 0.30 FEET

BROWNING BRANCH			10 YEAR FLOOD		08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

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

0.80	885.	100.	578.	207.	0.45	20	405.	
2760.60	2760.60	98.	87.	179.	0.37	10	2759.20	
4.80	0.0	1.02	6.64	1.15	0.08	2761.05	2756.50	
0.006704	0.047	0.100	0.045	0.100	0.18	-0.00	47.18	
	2755.80	30.	30.	30.	214.	269.	530.00	34.

*SECNO .980

3265 DIVIDED FLOW

BROWNING BRANCH			10 YEAR FLOOD		08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

0.98	885.	153.	607.	126.	0.42	16	481.	
2774.26	2774.26	161.	98.	100.	-0.04	13	2773.40	
5.76	0.0	0.95	6.22	1.25	5.64	2774.68	2773.50	
0.005871	0.046	0.100	0.040	0.060	0.00	-0.00	0.0	
	2768.50	900.	900.	900.	260.	226.	485.57	41.

*SECNO .980

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*** GR CARDS REPEATED
    0.98       885.      207.      460.      218.      0.15         3       557.
 2774.69        0.0      267.      110.      208.     -0.27         0    2773.40
    6.19        0.0      0.77      4.19      1.05      0.14   2774.84    2773.50
0.002282      0.046     0.100     0.040     0.060      0.03     -0.00        0.0
            2768.50       40.       40.       40.      260.      297.     557.06        42.

*SECNO .980

3265 DIVIDED FLOW

3370 NORMAL BRIDGE,NRD= 11 MIN ELTRD= 2774.20 MAX ELLC= 2774.40

    0.98       885.      388.      231.      266.      0.11         2       547.
 2774.74        0.0      253.       51.      161.     -0.04         0    2774.80
    6.24        0.0      1.53      4.51      1.65      0.00   2774.85    2774.70
0.008459      0.046     0.100     0.040     0.060      0.00    -27.85        0.0
            2768.50        1.        1.        1.      262.      303.     564.94        42.

*SECNO .980
*** GR CARDS REPEATED
3370 NORMAL BRIDGE,NRD= 11 MIN ELTRD= 2774.20 MAX ELLC= 2774.40

    0.98       885.      382.      167.      336.      0.05         2       585.
 2774.98        0.0      313.       51.      235.     -0.06         0    2774.80
    6.48        0.0      1.22      3.25      1.43      0.18   2775.03    2774.70
0.004394      0.045     0.100     0.040     0.060      0.01    -31.98        0.0
            2768.50       30.       30.       30.      262.      323.     584.62        42.

*SECNO .980
    BROWNING BRANCH               10 YEAR FLOOD        08/01/81
   MILE       Q          QLOB      QCH       QROB      HV        ITRIAL    TOPWID
   ELEV       CRIWS      ALOB      ACH       AROB      DHV       IDC       BANK ELEV
   DEPTH      WSELK      VLOB      VCH       VROB      HL        EG      LEFT/RIGHT
   SLOPE      WTN        XNL       XNCH      XNR       OLOSS     CORAR     SSTA
              ELMIN      XLOBL     XLCH      XLOBR     WSDL      WSDR      ENDST        VOL

    0.98       885.       31.      494.      360.      0.17         2       404.
 2774.98        0.0       52.      115.      295.      0.12         0    2773.40
    6.48        0.0      0.60      4.29      1.22      0.06   2775.15    2773.50
0.002225      0.045     0.100     0.040     0.060      0.06     -0.00     180.70
            2768.50       20.       20.       20.       79.      325.     584.80        42.

*SECNO .980
    BROWNING BRANCH               10 YEAR FLOOD        08/01/81
   MILE       Q          QLOB      QCH       QROB      HV        ITRIAL    TOPWID
   ELEV       CRIWS      ALOB      ACH       AROB      DHV       IDC       BANK ELEV
   DEPTH      WSELK      VLOB      VCH       VROB      HL        EG      LEFT/RIGHT
   SLOPE      WTN        XNL       XNCH      XNR       OLOSS     CORAR     SSTA
              ELMIN      XLOBL     XLCH      XLOBR     WSDL      WSDR      ENDST        VOL

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

	0.98	885.	146.	570.	169.	0.37	20	522.
	2775.35	2775.35	146.	95.	127.	0.20	12	2773.20
	4.15	0.0	1.00	5.99	1.33	0.07	2775.71	2774.90
	0.006004	0.045	0.100	0.040	0.060	0.10	0.0	0.0
		2771.20	20.	20.	20.	266.	257.	522.33

42.

*SECNO 1.190

3301 HV CHANGED MORE THAN HVINS

	BROWNING BRANCH		10 YEAR FLOOD		08/01/81			
	MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID
	ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV
	DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT
	SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA
		ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST

VOL

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

	1.19	600.	0.	600.	0.	1.62	20	18.
	2790.08	2790.08	0.	59.	0.	1.25	6	2791.70
	4.08	0.0	0.0	10.20	0.0	10.67	2791.69	2791.60
	0.026906	0.045	0.085	0.045	0.085	0.62	0.0	511.00
		2786.00	1100.	1100.	1100.	10.	8.	529.35

48.

*SECNO 1.190

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

	1.19	600.	253.	332.	14.	0.11	4	544.
	2791.94	0.0	333.	95.	37.	-1.51	0	2791.70
	5.94	0.0	0.76	3.51	0.39	0.20	2792.05	2791.60
	0.002077	0.045	0.085	0.045	0.085	0.15	-0.00	6.27
		2786.00	40.	40.	40.	515.	216.	737.47

48.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	6.00	0.01	27.00	0.0
ELCHU	ELCHD							
2787.30	2787.30							

*SECNO 1.190

3265 DIVIDED FLOW

3280 CROSS SECTION 1.19 EXTENDED 0.18 FEET

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2804.21	2792.05	0.00	509.	93.	27.	27.	2791.80

ELTRD
2791.80

1.19	600.	280.	269.	52.	0.05	2	283.
2792.18	0.0	435.	100.	126.	-0.06	0	2791.70
6.18	0.0	0.64	2.70	0.41	0.19	2792.23	2791.60
0.001147	0.045	0.085	0.045	0.085	0.0	-0.00	0.0
	2786.00	30.	30.	30.	521.	244.	764.56 48.

*SECNO 1.190

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3280 CROSS SECTION 1.19 EXTENDED 0.20 FEET

BROWNING BRANCH 10 YEAR FLOOD 08/01/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
1.19	600.	282.	265.	53.	0.05	0	687.	
2792.19	0.0	442.	100.	129.	-0.00	0	2791.70	
6.19	0.0	0.64	2.66	0.41	0.01	2792.25	2791.60	
0.001109	0.045	0.085	0.045	0.085	0.00	-0.00	0.0	
	2786.00	10.	10.	10.	521.	245.	766.30	49.

*SECNO 1.300

BROWNING BRANCH 10 YEAR FLOOD 08/01/81

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

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

1.30	600.	8.	370.	222.	0.54	20	235.	
2800.24	2800.24	16.	50.	121.	0.49	17	2800.20	
3.94	0.0	0.51	7.40	1.83	1.24	2800.78	2799.00	
0.011383	0.045	0.100	0.040	0.100	0.25	-0.00	207.75	
	2796.30	480.	480.	480.	101.	134.	442.59	53.

*SECNO 1.300

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3280 CROSS SECTION 1.30 EXTENDED 0.39 FEET

1.30	600.	84.	271.	245.	0.14	2	428.	
2800.89	0.0	141.	62.	209.	-0.40	0	2800.20	
4.59	0.0	0.59	4.38	1.17	0.21	2801.03	2799.00	
0.003010	0.045	0.100	0.040	0.100	0.04	-0.00	21.00	
	2796.30	40.	40.	40.	288.	154.	463.07	54.

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 2800.79 ,NOT 2800.89
HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	5.00	0.01	38.00	1.90

ELCHU	ELCHD
2796.30	2796.30

*SECNO 1.300

*** GR CARDS REPEATED

3280 CROSS SECTION 1.30 EXTENDED 1.54 FEET

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2807.08	2801.15	0.0	341.	261.	38.	39.	2799.70

ELTRD
2801.00

1.30	600.	200.	166.	234.	0.02	2	534.	
2802.04	0.0	460.	82.	412.	-0.12	0	2800.20	
5.74	0.0	0.44	2.01	0.57	1.03	2802.06	2799.00	
0.000433	0.045	0.100	0.040	0.100	0.0	-0.00	21.00	
	2796.30	30.	30.	30.	288.	246.	554.68	54.

*SECNO 1.300

*** GR CARDS REPEATED

3280 CROSS SECTION 1.30 EXTENDED 1.55 FEET

1.30	600.	201.	165.	234.	0.02	1	534.	
2802.04	0.0	463.	83.	414.	-0.00	0	2800.20	
5.74	0.0	0.43	2.00	0.56	0.00	2802.06	2799.00	
0.000426	0.045	0.100	0.040	0.100	0.00	-0.00	21.00	
	2796.30	10.	10.	10.	288.	246.	555.07	54.

THIS RUN EXECUTED 08/01/81 8:19:46

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**************************************************
  HEC2 RELEASE DATED NOV 76 UPDATED JULY1979
  ERROR CORR -  01,02,03
  MODIFICATION -  50,51,52,53,54
**************************************************

T1      WAYNESVILLE NC                                                  1885
T2      50 YEAR FLOOD                                                   1890
T3      BROWNING BRANCH                                                 1895

J1  ICHECK     INQ    NINV    IDIR    STRT  METRIC   HVINS      Q      WSEL     FQ
          0.      3.      0.      0. 0.00500      0.     0.0      0.     0.0     0.0  1900

J2  NPROF   IPLOT   PRFVS   XSECV   XSECH      FN   ALLDC     IBW  CHNIM ITRACE
          2.      0.     -1.      0.      0.     0.0     0.0      0.      0.      0.  1905
```

*PROF 2

CCHV= 0.100 CEHV= 0.500

*SECNO .050

2096 WSEL NOT GIVEN,AVG OF MAX,MIN USED

3265 DIVIDED FLOW

BROWNING BRANCH			50 YEAR FLOOD		08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
0.05	1600.	228.	889.	483.	0.47	0	295.	
2705.62	0.0	129.	123.	256.	0.50	0	2701.00	
7.12	0.0	1.77	7.22	1.89	0.0	2706.09	2701.50	
0.005046	0.0	0.100	0.045	0.070	0.0	-0.00	170.00	
	2698.50	0.	0.	0.	100.	236.	506.24	0.

*SECNO .140

3265 DIVIDED FLOW

3280 CROSS SECTION 0.14 EXTENDED 0.54 FEET

BROWNING BRANCH			50 YEAR FLOOD		08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

0.14	1600.	469.	494.	637.	0.57	13	262.	
2710.84	2710.84	126.	51.	202.	0.10	13	2708.70	
5.34	0.0	3.73	9.67	3.15	3.74	2711.42	2709.20	
0.016171	0.045	0.070	0.045	0.070	0.05	-0.00	119.85	
	2705.50	450.	450.	450.	204.	171.	495.00	5.

*SECNO .180

0.18	1600.	148.	650.	802.	0.44	4	330.	
2713.94	0.0	81.	83.	311.	-0.13	0	2712.60	
5.34	0.0	1.83	7.80	2.58	2.95	2714.38	2712.80	
0.010113	0.045	0.090	0.045	0.070	0.01	-0.00	230.00	
	2708.60	250.	230.	230.	81.	249.	559.93	7.

*SECNO .210

3265 DIVIDED FLOW

BROWNING BRANCH			50 YEAR FLOOD		08/01/81		
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID

ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

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

0.21	1600.	267.	994.	339.	0.76	20	318.	
2717.60	2717.60	163.	114.	138.	0.32	11	2714.70	
7.10	0.0	1.64	8.74	2.45	0.96	2718.36	2714.80	
0.008036	0.044	0.090	0.045	0.070	0.16	-0.00	46.38	
	2710.50	150.	100.	100.	264.	143.	452.59	8.

*SECNO .210

*** GR CARDS REPEATED

3265 DIVIDED FLOW

BROWNING BRANCH			50 YEAR FLOOD		08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

0.21	1600.	389.	758.	453.	0.28	3	452.	
2718.32	0.0	298.	128.	267.	-0.49	0	2714.70	
7.82	0.0	1.31	5.92	1.69	0.19	2718.60	2714.80	
0.003148	0.044	0.090	0.045	0.070	0.05	-0.00	45.14	
	2710.50	40.	40.	40.	265.	237.	547.31	9.

*SECNO .210

3265 DIVIDED FLOW

3370 NORMAL BRIDGE,NRD= 6 MIN ELTRD= 2717.00 MAX ELLC= 2716.10

0.21	1600.	629.	624.	348.	0.27	0	454.	
2718.34	0.0	232.	106.	148.	-0.01	0	2717.90	
7.84	0.0	2.72	5.87	2.35	0.01	2718.61	2717.90	
0.020606	0.044	0.090	0.045	0.070	0.00	-36.00	45.12	
	2710.50	1.	1.	1.	265.	239.	549.08	9.

*SECNO .210

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3370 NORMAL BRIDGE,NRD= 6 MIN ELTRD= 2717.00 MAX ELLC= 2716.10

0.21	1600.	659.	449.	492.	0.11	2	514.
2718.76	0.0	323.	115.	260.	-0.16	0	2717.90

8.26	0.0	2.04	3.91	1.89	0.25	2718.87	2717.90	
0.008217	0.044	0.090	0.045	0.070	0.02	-36.00	35.00	
	2710.50	20.	20.	20.	275.	289.	599.09	9.

*SECNO .210

3265 DIVIDED FLOW

0.21	1600.	438.	647.	515.	0.16	2	514.	
2718.74	0.0	387.	136.	376.	0.05	0	2714.70	
8.24	0.0	1.13	4.74	1.37	0.00	2718.90	2714.80	
0.001853	0.044	0.090	0.045	0.070	0.02	-0.00	35.00	
	2710.50	1.	1.	1.	275.	289.	598.69	9.

*SECNO .210

*** GR CARDS REPEATED

3265 DIVIDED FLOW

0.21	1600.	440.	641.	519.	0.15	2	514.	
2718.76	0.0	392.	137.	383.	-0.01	0	2714.70	
8.26	0.0	1.12	4.68	1.36	0.02	2718.92	2714.80	
0.001797	0.044	0.090	0.045	0.070	0.00	-0.00	35.00	
	2710.50	10.	10.	10.	275.	289.	599.10	9.

*SECNO .250

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

BROWNING BRANCH			50 YEAR FLOOD		08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

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

0.25	1600.	271.	1068.	261.	0.89	20	340.	
2721.21	2721.21	182.	116.	155.	0.74	9	2718.20	
7.21	0.0	1.49	9.21	1.69	0.33	2722.11	2718.30	
0.010727	0.044	0.120	0.050	0.120	0.37	-0.00	46.18	
	2714.00	130.	80.	80.	264.	158.	467.74	11.

*SECNO .250

*** GR CARDS REPEATED

3265 DIVIDED FLOW

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3301 HV CHANGED MORE THAN HVINS

      0.25     1600.      418.      804.      378.     0.29         3      501.
   2722.11      0.0       358.      134.      339.    -0.60         0  2718.20
      8.11      0.0       1.17      6.01      1.12     0.24   2722.40  2718.30
  0.003771    0.044      0.120     0.050     0.120     0.06     -0.00    35.00
            2714.00         40.       40.       40.      275.      276.   585.51      11.

*SECNO .250

3265 DIVIDED FLOW

3280 CROSS SECTION      0.25 EXTENDED      4.15 FEET


3370 NORMAL BRIDGE,NRD= 14 MIN ELTRD= 2719.00 MAX ELLC= 2721.30

      0.25     1600.       81.      1115.      405.     0.08         2      294.
   2722.35      0.0       112.      460.      229.    -0.22         0  2721.50
      8.35      0.0       0.72      2.42      1.77     0.00   2722.43  2720.00
  0.004973    0.044      0.120     0.050     0.120     0.02   -387.82    55.00
            2714.00          1.        1.        1.      220.      131.   405.00      11.


*SECNO .250

*SECNO .250

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3280 CROSS SECTION      0.25 EXTENDED      4.29 FEET


3370 NORMAL BRIDGE,NRD= 14 MIN ELTRD= 2719.00 MAX ELLC= 2721.30

      0.25     1600.       83.      1107.      410.     0.07         1      303.
   2722.50      0.0       121.      475.      239.    -0.01         0  2721.50
      8.50      0.0       0.69      2.33      1.71     0.14   2722.57  2720.00
  0.004403    0.044      0.120     0.050     0.120     0.00   -394.34    55.00
            2714.00         30.       30.       30.      220.      131.   405.00      12.

*SECNO .250
3280 CROSS SECTION      0.25 EXTENDED      4.34 FEET


      0.25     1600.      168.      1253.      179.     0.03         2      350.
   2722.54      0.0       438.      756.      347.    -0.04         0  2717.50
      8.54      0.0       0.38      1.66      0.52     0.00   2722.57  2716.50
  0.000238    0.044      0.120     0.050     0.120     0.00     -0.00    55.00
            2714.00          1.        1.        1.      220.      131.   405.00      12.


*SECNO .260
3280 CROSS SECTION      0.26 EXTENDED      4.23 FEET
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BROWNING BRANCH 50 YEAR FLOOD 08/01/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
0.26	1600.	536.	748.	316.	0.09	2	255.	
2722.53	0.0	489.	233.	250.	0.05	0	2719.00	
7.03	0.0	1.10	3.21	1.26	0.01	2722.61	2717.90	
0.001141	0.044	0.100	0.050	0.100	0.03	-0.00	150.00	
	2715.50	25.	25.	25.	175.	80.	405.00	13.

*SECNO .300

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

BROWNING BRANCH 50 YEAR FLOOD 08/01/81

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

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

0.30	1600.	708.	716.	177.	0.71	20	212.	
2723.09	2723.09	166.	79.	63.	0.62	14	2724.80	
4.29	0.0	4.26	9.04	2.80	0.62	2723.80	2723.20	
0.025786	0.045	0.080	0.050	0.080	0.31	-0.00	128.43	
	2718.80	200.	200.	200.	128.	134.	390.00	16.

*SECNO .340

3265 DIVIDED FLOW

0.34	1600.	555.	567.	478.	0.24	4	343.	
2726.15	0.0	208.	97.	251.	-0.46	0	2727.50	
4.95	0.0	2.66	5.82	1.91	2.55	2726.39	2725.80	
0.007024	0.045	0.080	0.045	0.080	0.05	-0.00	137.02	
	2721.20	210.	210.	210.	119.	230.	486.53	18.

*SECNO .430

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

BROWNING BRANCH 50 YEAR FLOOD 08/01/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID

ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

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

0.43	1595.	430.	898.	267.	0.77	.0	327.	
2735.25	2735.25	210.	97.	170.	0.53	8	2733.50	
5.15	0.0	2.04	9.23	1.57	4.53	2736.02	2733.50	
0.010189	0.044	0.100	0.040	0.110	0.26	-0.00	250.00	
	2730.10	540.	540.	540.	140.	222.	612.34	24.

*SECNO .460

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

0.46	1595.	1018.	356.	221.	0.05	3	612.	
2736.55	0.0	986.	103.	228.	-0.72	0	2734.50	
5.45	0.0	1.03	3.45	0.97	0.51	2736.60	2734.50	
0.001315	0.043	0.100	0.040	0.070	0.07	-0.00	0.0	
	2731.10	180.	180.	180.	390.	243.	633.32	28.

*SECNO .480
3280 CROSS SECTION 0.48 EXTENDED 1.07 FEET

BROWNING BRANCH			50 YEAR FLOOD		08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

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

0.48	1595.	404.	529.	661.	0.35	20	700.	
2737.77	2737.77	241.	68.	356.	0.30	10	2737.00	
4.57	0.0	1.68	7.84	1.86	0.11	2738.12	2737.00	
0.009944	0.043	0.100	0.040	0.070	0.15	0.0	100.00	
	2733.20	40.	40.	40.	209.	491.	800.00	29.

*SECNO .480

*** GR CARDS REPEATED
3280 CROSS SECTION 0.48 EXTENDED 1.56 FEET

0.48	1595.	402.	361.	832.	0.10	2	700.	
2738.26	0.0	338.	75.	589.	-0.25	0	2737.00	
5.06	0.0	1.19	4.80	1.41	0.21	2738.36	2737.00	
0.003224	0.043	0.100	0.040	0.070	0.02	-0.00	100.00	

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          2733.20      40.      40.      40.     209.     491.    800.00      29.

*SECNO .480
3265 DIVIDED FLOW
3280 CROSS SECTION      0.48 EXTENDED      1.60 FEET

3370 NORMAL BRIDGE,NRD= 14 MIN ELTRD= 2736.30 MAX ELLC= 2737.90

      0.48     1595.     411.     209.     975.     0.07        2     700.
   2738.30      0.0      275.      56.      547.    -0.03        0  2737.90
      5.10      0.0      1.49     3.74     1.78     0.00  2738.37  2738.30
  0.005544     0.043     0.100    0.040    0.070    0.00    -8.82   100.00
          2733.20        1.       1.       1.      209.     491.    800.00      29.

*SECNO .480
*** GR CARDS REPEATED
3280 CROSS SECTION      0.48 EXTENDED      1.77 FEET

3370 NORMAL BRIDGE,NRD= 14 MIN ELTRD= 2736.30 MAX ELLC= 2737.90

      0.48     1595.     414.     150.     1031.    0.04        2     700.
   2738.47      0.0      308.      59.      627.    -0.02        0  2737.90
      5.27      0.0      1.34     2.56     1.64     0.14  2738.51  2738.30
  0.004006     0.043     0.100    0.040    0.070    0.00    -8.83   100.00
          2733.20        30.      30.      30.      209.     491.    800.00      30.

*SECNO .480
3280 CROSS SECTION      0.48 EXTENDED      1.76 FEET

      0.48     1595.     399.     318.     878.     0.07        1     700.
   2738.46      0.0      379.      79.      688.    0.02        0  2737.00
      5.26      0.0      1.05     4.05     1.28     0.00  2738.52  2737.00
  0.002169     0.043     0.100    0.040    0.070    0.01    -0.00   100.00
          2733.20        1.       1.       1.      209.     491.    800.00      30.

*SECNO .480
*** GR CARDS REPEATED
3280 CROSS SECTION      0.48 EXTENDED      1.79 FEET

    BROWNING BRANCH              50 YEAR FLOOD        08/01/81
   MILE      Q        QLOB      QCH      QROB      HV        ITRIAL     TOPWID
   ELEV      CRIWS    ALOB      ACH      AROB      DHV       IDC        BANK ELEV
   DEPTH     WSELK    VLOB      VCH      VROB      HL        EG      LEFT/RIGHT
   SLOPE     WTN      XNL       XNCH     XNR       OLOSS     CORAR      SSTA
             ELMIN    XLOBL     XLCH     XLOBR     WSDL      WSDR       ENDST       VOL
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0.48	1595.	399.	314.	882.	0.07	0	700.	
2738.48	0.0	383.	79.	699.	-0.00	0	2737.00	
5.28	0.0	1.04	3.98	1.26	0.02	2738.55	2737.00	
0.002079	0.043	0.100	0.040	0.070	0.00	0.0	100.00	
	2733.20	10.	10.	10.	209.	491.	800.00	30.

*SECNO .510

BROWNING BRANCH			50 YEAR FLOOD		08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

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

0.51	1590.	102.	547.	941.	0.54	20	291.	
2740.86	2740.86	50.	61.	275.	0.47	9	2739.40	
4.86	0.0	2.04	8.91	3.42	0.57	2741.39	2739.20	
0.014277	0.043	0.090	0.045	0.060	0.23	-0.00	298.99	
	2736.00	130.	130.	130.	56.	235.	589.73	33.

*SECNO .510

*** GR CARDS REPEATED

0.51	1590.	128.	393.	1069.	0.18	2	301.	
2741.53	0.0	83.	72.	432.	-0.35	0	2739.40	
5.53	0.0	1.55	5.44	2.47	0.29	2741.71	2739.20	
0.004286	0.043	0.090	0.045	0.060	0.04	-0.00	297.96	
	2736.00	40.	40.	40.	57.	244.	598.99	33.

*SECNO .510

3265 DIVIDED FLOW

BROWNING BRANCH			50 YEAR FLOOD		08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3370 NORMAL BRIDGE,NRD= 6 MIN ELTRD= 2741.80 MAX ELLC= 2742.00

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

0.51	1590.	0.	842.	748.	0.63	4	166.	
2741.41	2741.41	0.	113.	154.	0.45	7	2745.20	
4.41	0.0	0.0	7.46	4.86	0.01	2742.04	2744.30	
0.028959	0.043	0.090	0.045	0.060	0.22	-2.73	330.00	
	2737.00	1.	1.	1.	16.	251.	597.33	33.

*SECNO .540

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3370 NORMAL BRIDGE,NRD= 6 MIN ELTRD= 2741.80 MAX ELLC= 2742.00

0.54	1590.	0.	321.	1269.	0.15	4	227.	
2742.91	0.0	0.	118.	404.	-0.48	0	2745.20	
5.91	0.0	0.0	2.72	3.14	0.97	2743.06	2744.30	
0.004959	0.045	0.090	0.045	0.060	0.05	-46.14	330.00	
	2737.00	180.	180.	50.	16.	260.	605.53	34.

*SECNO .540
3280 CROSS SECTION 0.54 EXTENDED 1.10 FEET

BROWNING BRANCH			50 YEAR FLOOD		08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
0.54	1590.	191.	426.	973.	0.18	2	320.	
2742.90	0.0	120.	79.	422.	0.03	0	2740.60	
5.90	0.0	1.59	5.39	2.31	0.00	2743.08	2740.30	
0.003938	0.045	0.090	0.045	0.060	0.02	-0.00	283.13	
	2737.00	1.	1.	1.	72.	248.	603.00	34.

*SECNO .540

*** GR CARDS REPEATED
3280 CROSS SECTION 0.54 EXTENDED 1.24 FEET

0.54	1590.	193.	405.	992.	0.15	0	320.	
2743.04	0.0	128.	81.	453.	-0.03	0	2740.60	
6.04	0.0	1.51	4.98	2.19	0.11	2743.19	2740.30	
0.003232	0.045	0.090	0.045	0.060	0.00	-0.00	282.83	
	2737.00	30.	30.	30.	73.	248.	603.00	34.

*SECNO .610

3265 DIVIDED FLOW

BROWNING BRANCH			50 YEAR FLOOD		08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

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

0.61	1590.	83.	818.	689.	0.58	20	376.

2746.27	2746.27	80.	99.	312.	0.43	6	2744.80	
5.97	0.0	1.04	8.24	2.21	1.63	2746.85	2746.80	
0.011056	0.045	0.100	0.045	0.100	0.21	-0.00	13.51	
	2740.30	300.	300.	300.	199.	309.	521.65	38.

*SECNO .610

3265 DIVIDED FLOW

3280 CROSS SECTION 0.61 EXTENDED 2.50 FEET

0.61	1590.	257.	505.	828.	0.17	3	468.	
2747.00	0.0	224.	95.	460.	-0.41	0	2744.80	
5.00	0.0	1.15	5.33	1.80	0.28	2747.17	2746.80	
0.004917	0.045	0.100	0.045	0.100	0.04	-0.00	0.0	
	2742.00	40.	40.	40.	213.	306.	518.00	39.

*SECNO .610

3265 DIVIDED FLOW

3280 CROSS SECTION 0.61 EXTENDED 2.60 FEET

3370 NORMAL BRIDGE,NRD= 6 MIN ELTRD= 2746.50 MAX ELLC= 2746.00

0.61	1590.	316.	170.	1104.	0.08	2	450.	
2747.10	0.0	222.	51.	476.	-0.09	0	2746.70	
5.10	0.0	1.43	3.33	2.32	0.01	2747.18	2747.00	
0.007625	0.045	0.100	0.045	0.100	0.01	-23.01	0.0	
	2742.00	1.	1.	1.	213.	306.	518.00	39.

*SECNO .610

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3280 CROSS SECTION 0.61 EXTENDED 2.82 FEET

BROWNING BRANCH 50 YEAR FLOOD 08/01/81

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

3370 NORMAL BRIDGE,NRD= 6 MIN ELTRD= 2746.50 MAX ELLC= 2746.00

0.61	1590.	359.	144.	1087.	0.06	2	468.	
2747.32	0.0	266.	51.	529.	-0.02	0	2746.70	
5.32	0.0	1.35	2.83	2.05	0.19	2747.38	2747.00	
0.005538	0.045	0.100	0.045	0.100	0.00	-26.67	0.0	

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          2742.00      30.      30.      30.     213.     306.   518.00      39.

*SECNO .610
3265 DIVIDED FLOW
3280 CROSS SECTION      0.61 EXTENDED      2.80 FEET

      0.61     1590.     305.     463.     822.    0.12        2     468.
   2747.30      0.0     283.     102.     531.    0.05        0  2744.80
      5.30      0.0     1.08     4.54     1.55    0.00  2747.41  2746.80
  0.003221    0.045    0.100    0.045    0.100    0.03    -0.00     0.0
           2742.00       1.       1.       1.     213.     306.   518.00      39.

*SECNO .610
*** GR CARDS REPEATED
3265 DIVIDED FLOW
3280 CROSS SECTION      0.61 EXTENDED      2.84 FEET

      0.61     1590.     311.     458.     822.    0.11        0     468.
   2747.33      0.0     291.     103.     542.   -0.01        0  2744.80
      5.33      0.0     1.07     4.44     1.52    0.03  2747.44  2746.80
  0.003036    0.045    0.100    0.045    0.100    0.00      0.0      0.0
           2742.00      10.      10.      10.     213.     306.   518.00      40.

*SECNO .740
3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

    BROWNING BRANCH              50 YEAR FLOOD        08/01/81
    MILE      Q         QLOB      QCH       QROB      HV        ITRIAL     TOPWID
    ELEV      CRIWS     ALOB      ACH       AROB      DHV       IDC        BANK ELEV
    DEPTH     WSELK     VLOB      VCH       VROB      HL        EG      LEFT/RIGHT
    SLOPE     WTN       XNL       XNCH      XNR       OLOSS     CORAR      SSTA
              ELMIN     XLOBL     XLCH      XLOBR     WSDL      WSDR       ENDST      VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
      0.74     1585.      26.     1351.     207.    0.85       20      306.
   2757.92  2757.92       21.      169.     155.    0.74       12   2756.50
      6.62      0.0     1.27     8.02     1.34    3.40  2758.77     2756.50
  0.016673    0.047    0.120    0.060    0.110    0.37    -0.00      476.05
           2751.30      570.     570.     570.      47.     298.     821.87      48.

*SECNO .740
*** GR CARDS REPEATED
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3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

0.74	1585.	129.	963.	492.	0.21	3	788.	
2758.93	0.0	207.	206.	454.	-0.64	0	2756.50	
7.63	0.0	0.62	4.68	1.08	0.30	2759.14	2756.50	
0.004346	0.047	0.120	0.060	0.110	0.06	-0.00	97.14	
	2751.30	40.	40.	40.	426.	392.	915.46	49.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	15.00	0.01	130.00	2.10

ELCHU	ELCHD
2751.50	2751.50

*SECNO ,740

*** GR CARDS REPEATED
6870 D.S. ENERGY OF 2759.14 HIGHER THAN COMPUTED ENERGY OF 2759.04

3265 DIVIDED FLOW

BROWNING BRANCH			50 YEAR FLOOD		08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2759.04	2759.01	0.00	1309.	280.	130.	131.	2756.60

ELTRD
2756.50

0.74	1585.	130.	961.	493.	0.21	2	789.	
2758.93	0.0	209.	206.	456.	-0.00	0	2756.50	
7.63	0.0	0.62	4.66	1.08	0.0	2759.14	2756.50	
0.004318	0.047	0.120	0.060	0.110	0.0	-0.00	96.66	
	2751.30	30.	30.	30.	427.	392.	915.86	49.

*SECNO ,740

*** GR CARDS REPEATED

3265 DIVIDED FLOW

0.74	1585.	131.	980.	474.	0.22	1	797.
2758.96	0.0	224.	207.	468.	0.01	0	2756.50
7.66	0.0	0.59	4.72	1.01	0.04	2759.18	2756.50

0.003050	0.047	0.110	0.050	0.100	0.00	-0.00	92.68	
	2751.30	10.	10.	10.	431.	396.	919.18	49.

*SECNO .800

3265 DIVIDED FLOW

3280 CROSS SECTION 0.80 EXTENDED 0.91 FEET

0.80	1580.	314.	804.	462.	0.44	2	415.	
2760.21	0.0	214.	110.	279.	0.22	0	2758.20	
5.41	0.0	1.47	7.31	1.66	1.36	2760.65	2758.60	
0.007490	0.047	0.100	0.045	0.100	0.11	-0.00	25.00	
	2754.80	300.	300.	300.	238.	268.	530.00	55.

*SECNO .800

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3280 CROSS SECTION 0.80 EXTENDED 1.36 FEET

0.80	1580.	384.	682.	514.	0.23	3	415.	
2760.66	0.0	300.	121.	365.	-0.21	0	2758.20	
5.86	0.0	1.28	5.63	1.41	0.21	2760.88	2758.60	
0.003912	0.047	0.100	0.045	0.100	0.02	-0.00	25.00	
	2754.80	40.	40.	40.	238.	268.	530.00	55.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	11.00	0.01	55.00	0.50

ELCHU	ELCHD
2754.80	2754.80

*SECNO .800

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3280 CROSS SECTION 0.80 EXTENDED 1.63 FEET

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2781.16	2760.88	0.00	1358.	229.	55.	55.	2759.00

ELTRD
2759.00

0.80	1580.	417.	627.	536.	0.16	2	415.	
2760.92	0.0	353.	128.	417.	-0.07	0	2758.20	
6.12	0.0	1.18	4.90	1.28	0.20	2761.09	2758.60	
0.002760	0.047	0.100	0.045	0.100	0.0	-0.00	25.00	
	2754.80	30.	30.	30.	238.	268.	530.00	56.

*SECNO .800

3265 DIVIDED FLOW

3280 CROSS SECTION 0.80 EXTENDED 0.78 FEET

BROWNING BRANCH 50 YEAR FLOOD 08/01/81

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

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

0.80	1580.	282.	806.	492.	0.56	20	445.	
2761.08	2761.08	188.	98.	290.	0.40	9	2759.20	
5.28	0.0	1.50	8.26	1.70	0.14	2761.64	2756.50	
0.008888	0.047	0.100	0.045	0.100	0.20	0.0	25.00	
	2755.80	30.	30.	30.	236.	269.	530.00	56.

*SECNO .980

BROWNING BRANCH 50 YEAR FLOOD 08/01/81

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

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

0.98	1575.	370.	815.	391.	0.46	20	558.	
2774.70	2774.70	269.	110.	210.	-0.10	12	2773.40	
6.20	0.0	1.37	7.41	1.86	7.14	2775.16	2773.50	
0.007115	0.046	0.100	0.040	0.060	0.01	-0.00	0.0	
	2768.50	900.	900.	900.	260.	298.	558.32	68.

*SECNO .980

*** GR CARDS REPEATED

0.98	1575.	417.	617.	541.	0.17	3	596.	
2775.19	0.0	390.	124.	360.	-0.29	0	2773.40	
6.69	0.0	1.07	4.99	1.50	0.17	2775.36	2773.50	
0.002754	0.046	0.100	0.040	0.060	0.03	-0.00	0.0	
	2768.50	40.	40.	40.	260.	336.	595.82	69.

*SECNO .980

3370 NORMAL BRIDGE,NRD= 11 MIN ELTRD= 2774.20 MAX ELLC= 2774.40

0.98	1575.	657.	204.	714.	0.08	2	601.	
2775.29	0.0	390.	51.	336.	-0.09	0	2774.80	
6.79	0.0	1.68	3.98	2.13	0.00	2775.37	2774.70	
0.006577	0.046	0.100	0.040	0.060	0.01	-37.86	0.0	
	2768.50	1.	1.	1.	262.	340.	601.22	69.

*SECNO .980

*** GR CARDS REPEATED

3370 NORMAL BRIDGE,NRD= 11 MIN ELTRD= 2774.20 MAX ELLC= 2774.40

0.98	1575.	644.	168.	763.	0.06	2	611.	
2775.47	0.0	436.	51.	398.	-0.02	0	2774.80	
6.97	0.0	1.48	3.27	1.92	0.16	2775.53	2774.70	
0.004446	0.046	0.100	0.040	0.060	0.00	-41.36	0.0	
	2768.50	30.	30.	30.	262.	350.	611.08	70.

*SECNO .980

BROWNING BRANCH 50 YEAR FLOOD 08/01/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
0.98	1575.	119.	674.	782.	0.21	2	611.	
2775.47	0.0	169.	129.	454.	0.15	0	2773.40	
6.97	0.0	0.70	5.23	1.72	0.07	2775.68	2773.50	
0.002849	0.046	0.100	0.040	0.060	0.07	-0.00	0.0	
	2768.50	20.	20.	20.	260.	351.	610.99	70.

*SECNO .980

BROWNING BRANCH 50 YEAR FLOOD 08/01/81

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

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

0.98	1575.	336.	779.	460.	0.43	20	558.	
2775.74	2775.74	244.	107.	228.	0.23	17	2773.20	
4.54	0.0	1.38	7.27	2.02	0.09	2776.17	2774.90	
0.007529	0.046	0.100	0.040	0.060	0.11	-0.00	0.0	
	2771.20	20.	20.	20.	266.	292.	557.78	70.

*SECNO 1.190

3265 DIVIDED FLOW

BROWNING BRANCH 50 YEAR FLOOD 08/01/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
7185 MINIMUM SPECIFIC ENERGY								
3720 CRITICAL DEPTH ASSUMED								
1.19	1100.	450.	627.	23.	0.41	15	534.	
2791.90	2791.90	317.	94.	32.	-0.02	12	2791.70	
5.90	0.0	1.42	6.67	0.70	8.32	2792.30	2791.60	
0.007605	0.045	0.085	0.045	0.085	0.00	-0.00	10.33	
	2786.00	1100.	1100.	1100.	511.	212.	732.96	83.

*SECNO 1.190

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3280 CROSS SECTION 1.19 EXTENDED 0.38 FEET

1.19	1100.	580.	449.	71.	0.13	2	642.	
2792.38	0.0	525.	104.	100.	-0.28	0	2791.70	
6.38	0.0	1.11	4.33	0.70	0.17	2792.51	2791.60	
0.002812	0.045	0.085	0.045	0.085	0.03	-0.00	0.0	
	2786.00	40.	40.	40.	521.	266.	787.11	84.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	6.00	0.01	27.00	0.0

ELCHU	ELCHD
2787.30	2787.30

*SECNO 1.190

3265 DIVIDED FLOW

3280 CROSS SECTION 1.19 EXTENDED 0.43 FEET

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2833.61	2792.51	0.00	1028.	67.	27.	27.	2791.80

ELTRD
2791.80

1.19	1100.	556.	412.	133.	0.10	2	743.
2792.43	0.0	546.	105.	187.	-0.03	0	2791.70
6.43	0.0	1.02	3.94	0.71	0.02	2792.53	2791.60
0.002293	0.045	0.085	0.045	0.085	0.0	-0.00	0.0

2786.00 30. 30. 30. 521. 271. 792.27 84.

*SECNO 1.190

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3280 CROSS SECTION 1.19 EXTENDED 0.45 FEET

BROWNING BRANCH 50 YEAR FLOOD 08/01/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
1.19	1100.	559.	405.	136.	0.09	0	749.	
2792.46	0.0	557.	105.	194.	-0.01	0	2791.70	
6.46	0.0	1.00	3.86	0.70	0.02	2792.55	2791.60	
0.002186	0.045	0.085	0.045	0.085	0.00	-0.00	0.0	
	2786.00	10.	10.	10.	521.	274.	794.93	84.

*SECNO 1.300

3265 DIVIDED FLOW

3280 CROSS SECTION 1.30 EXTENDED 0.41 FEET

BROWNING BRANCH 50 YEAR FLOOD 08/01/81

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

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

1.30	1100.	160.	492.	449.	0.46	20	431.	
2800.91	2800.91	147.	62.	212.	0.37	14	2800.20	
4.61	0.0	1.09	7.90	2.11	1.93	2801.38	2799.00	
0.009711	0.045	0.100	0.040	0.100	0.19	0.0	21.00	
	2796.30	480.	480.	480.	288.	155.	463.71	92.

*SECNO 1.300

*** GR CARDS REPEATED
3280 CROSS SECTION 1.30 EXTENDED 0.97 FEET

1.30	1100.	286.	377.	437.	0.16	2	462.
2801.46	0.0	301.	72.	298.	-0.30	0	2800.20
5.16	0.0	0.95	5.22	1.47	0.22	2801.63	2799.00
0.003480	0.045	0.100	0.040	0.100	0.03	-0.00	21.00

2796.30	40.	40.	40.	288.	174.	483.42	92.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	5.00	0.01	38.00	1.90

ELCHU	ELCHD
2796.30	2796.30

*SECNO 1.300

*** GR CARDS REPEATED
3280 CROSS SECTION 1.30 EXTENDED 2.00 FEET

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2822.28	2801.63	0.00	861.	250.	38.	39.	2799.70

ELTRD
2801.00

1.30	1100.	406.	263.	430.	0.04	2	548.	
2802.50	0.0	589.	91.	525.	-0.12	0	2800.20	
6.20	0.0	0.69	2.90	0.82	0.91	2802.54	2799.00	
0.000791	0.045	0.100	0.040	0.100	0.0	-0.00	21.00	
	2796.30	30.	30.	30.	288.	260.	569.09	93.

*SECNO 1.300

*** GR CARDS REPEATED
3280 CROSS SECTION 1.30 EXTENDED 2.01 FEET

1.30	1100.	407.	262.	431.	0.04	1	548.	
2802.51	0.0	593.	91.	529.	-0.00	0	2800.20	
6.21	0.0	0.69	2.88	0.81	0.01	2802.54	2799.00	
0.000776	0.045	0.100	0.040	0.100	0.00	-0.00	21.00	
	2796.30	10.	10.	10.	288.	260.	569.26	93.

THIS RUN EXECUTED 08/01/81 8:19:52

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**************************************************
  HEC2 RELEASE DATED NOV 76 UPDATED JULY1979
  ERROR CORR -  01,02,03
  MODIFICATION -  50,51,52,53,54
**************************************************

T1      WAYNESVILLE NC                                                  1910
T2      100 YEAR FLOOD                                                  1915
T3      BROWNING BRANCH                                                 1920

J1  ICHECK     INQ    NINV    IDIR    STRT  METRIC   HVINS      Q      WSEL     FQ
         0.      4.      0.      0. 0.00500      0.     0.0      0.      0.0     0.0   1925

J2  NPROF   IPLOT   PRFVS   XSECV   XSECH      FN   ALLDC     IBW   CHNIM ITRACE
         3.      0.     -1.      0.      0.     0.0     0.0      0.      0.      0.   1930
```

*PROF 3

CCHV= 0.100 CEHV= 0.500
*SECNO .050
2096 WSEL NOT GIVEN,AVG OF MAX,MIN USED

3265 DIVIDED FLOW

BROWNING BRANCH 100 YEAR FLOOD 08/01/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
0.05	1900.	292.	965.	643.	0.47	0	319.	
2705.94	0.0	158.	129.	318.	0.50	0	2701.00	
7.44	0.0	1.85	7.45	2.02	0.0	2706.40	2701.50	
0.005032	0.0	0.100	0.045	0.070	0.0	-0.00	170.00	
	2698.50	0.	0.	0.	100.	256.	526.01	0.

*SECNO .140

3265 DIVIDED FLOW

3280 CROSS SECTION 0.14 EXTENDED 0.68 FEET

BROWNING BRANCH 100 YEAR FLOOD 08/01/81

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

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

0.14	1900.	556.	549.	795.	0.64	12	266.	
2710.98	2710.98	137.	53.	224.	0.18	16	2708.70	
5.48	0.0	4.05	10.42	3.54	3.88	2711.62	2709.20	
0.018015	0.045	0.070	0.045	0.070	0.09	-0.00	119.65	
	2705.50	450.	450.	450.	204.	171.	495.00	5.

*SECNO .180

0.18	1900.	194.	688.	1018.	0.41	3	331.	
2714.18	0.0	98.	88.	369.	-0.23	0	2712.60	
5.58	0.0	1.98	7.77	2.76	2.94	2714.58	2712.80	
0.009263	0.045	0.090	0.045	0.070	0.02	-0.00	230.00	
	2708.60	250.	230.	230.	81.	250.	560.91	8.

*SECNO .210

3265 DIVIDED FLOW

BROWNING BRANCH 100 YEAR FLOOD 08/01/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID

ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

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

0.21	1900.	372.	1079.	449.	0.77	20	365.	
2717.84	2717.84	204.	118.	174.	0.36	11	2714.70	
7.34	0.0	1.83	9.12	2.59	0.94	2718.60	2714.80	
0.008273	0.044	0.090	0.045	0.070	0.18	-0.00	45.97	
	2710.50	150.	100.	100.	264.	174.	483.92	9.

*SECNO .210

*** GR CARDS REPEATED

3265 DIVIDED FLOW

BROWNING BRANCH 100 YEAR FLOOD 08/01/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
0.21	1900.	498.	822.	580.	0.28	3	493.	
2718.57	0.0	349.	133.	328.	-0.49	0	2714.70	
8.07	0.0	1.43	6.18	1.77	0.20	2718.85	2714.80	
0.003260	0.044	0.090	0.045	0.070	0.05	-0.00	36.93	
	2710.50	40.	40.	40.	273.	270.	579.73	10.

*SECNO .210

3265 DIVIDED FLOW

3370 NORMAL BRIDGE,NRD= 6 MIN ELTRD= 2717.00 MAX ELLC= 2716.10

0.21	1900.	782.	564.	554.	0.18	2	512.	
2718.69	0.0	308.	113.	240.	-0.10	0	2717.90	
8.19	0.0	2.54	4.97	2.31	0.01	2718.86	2717.90	
0.013523	0.044	0.090	0.045	0.070	0.01	-36.00	35.00	
	2710.50	1.	1.	1.	275.	287.	596.78	10.

*SECNO .210

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3370 NORMAL BRIDGE,NRD= 6 MIN ELTRD= 2717.00 MAX ELLC= 2716.10

0.21	1900.	779.	463.	657.	0.11	2	517.	
2718.96	0.0	366.	119.	316.	-0.07	0	2717.90	

8.46	0.0	2.13	3.90	2.08	0.20	2719.07	2717.90	
0.007807	0.044	0.090	0.045	0.070	0.01	-36.00	35.00	
	2710.50	20.	20.	20.	275.	292.	602.48	10.

*SECNO .210

3265 DIVIDED FLOW

0.21	1900.	537.	714.	649.	0.[illegible]	2	517.	
2718.94	0.0	429.	140.	431.	0.06	0	2714.70	
8.44	0.0	1.25	5.08	1.51	0.00	2719.11	2714.80	
0.002048	0.044	0.090	0.045	0.070	0.03	-0.00	35.00	
	2710.50	1.	1.	1.	275.	292.	602.01	10.

*SECNO .210

*** GR CARDS REPEATED

3265 DIVIDED FLOW

0.21	1900.	539.	707.	654.	0.16	2	517.	
2718.96	0.0	435.	141.	439.	-0.01	0	2714.70	
8.46	0.0	1.24	5.01	1.49	0.02	2719.13	2714.80	
0.001984	0.044	0.090	0.045	0.070	0.00	-0.00	35.00	
	2710.50	10.	10.	10.	275.	292.	602.46	10.

*SECNO .250

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

BROWNING BRANCH			100 YEAR FLOOD		08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

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

0.25	1900.	385.	1160.	355.	0.88	20	396.	
2721.50	2721.50	233.	122.	201.	0.72	9	2718.20	
7.50	0.0	1.65	9.54	1.76	0.36	2722.38	2718.30	
0.010802	0.044	0.120	0.050	0.120	0.36	-0.00	45.70	
	2714.00	130.	80.	80.	264.	195.	504.99	12.

*SECNO .250

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

0.25	1900.	531.	873.	496.	0.29	3	516.	
2722.38	0.0	417.	139.	415.	-0.59	0	2718.20	
8.38	0.0	1.27	6.27	1.19	0.24	2722.68	2718.30	
0.003891	0.044	0.120	0.050	0.120	0.06	-0.00	35.00	
	2714.00	40.	40.	40.	275.	291.	601.03	13.

*SECNO .250

3265 DIVIDED FLOW

3280 CROSS SECTION 0.25 EXTENDED 4.41 FEET

3370 NORMAL BRIDGE,NRD= 14 MIN ELTRD= 2719.00 MAX ELLC= 2721.30

0.25	1900.	103.	1306.	491.	0.09	2	309.	
2722.61	0.0	130.	488.	248.	-0.20	0	2721.50	
8.61	0.0	0.79	2.67	1.98	0.00	2722.70	2720.00	
0.005607	0.044	0.120	0.050	0.120	0.02	-399.89	55.00	
	2714.00	1.	1.	1.	220.	131.	405.00	13.

*SECNO .250

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3280 CROSS SECTION 0.25 EXTENDED 4.58 FEET

3370 NORMAL BRIDGE,NRD= 14 MIN ELTRD= 2719.00 MAX ELLC= 2721.30

0.25	1900.	110.	1293.	497.	0.08	2	317.	
2722.78	0.0	143.	506.	261.	-0.01	0	2721.50	
8.78	0.0	0.77	2.55	1.91	0.16	2722.86	2720.00	
0.004875	0.044	0.120	0.050	0.120	0.00	-407.66	55.00	
	2714.00	30.	30.	30.	220.	131.	405.00	14.

*SECNO .250

3280 CROSS SECTION 0.25 EXTENDED 4.62 FEET

0.25	1900.	216.	1468.	217.	0.04	2	350.	
2722.32	0.0	485.	786.	368.	-0.04	0	2717.50	
8.82	0.0	0.44	1.87	0.59	0.00	2722.87	2716.50	
0.000286	0.044	0.120	0.050	0.120	0.00	-0.00	55.00	
	2714.00	1.	1.	1.	220.	131.	405.00	14.

*SECNO .260

3280 CROSS SECTION 0.26 EXTENDED 4.51 FEET

BROWNING BRANCH			100 YEAR FLOOD		08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
0.26	1900.	656.	866.	376.	0.10	2	255.	
2722.81	0.0	532.	244.	267.	0.06	0	2719.00	
7.31	0.0	1.24	3.55	1.41	0.01	2722.91	2717.90	
0.001307	0.044	0.100	0.050	0.100	0.03	-0.00	150.00	
	2715.50	25.	25.	25.	175.	80.	405.00	14.

*SECNO .300

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

BROWNING BRANCH			100 YEAR FLOOD		08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

0.30	1900.	855.	803.	243.	0.76	3	216.	
2723.27	2723.27	185.	84.	77.	0.66	14	2724.80	
4.47	0.0	4.61	9.52	3.16	0.70	2724.03	2723.20	
0.027104	0.045	0.080	0.050	0.080	0.33	-0.00	125.46	
	2718.80	200.	200.	200.	131.	134.	390.00	18.

*SECNO .340

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

0.34	1900.	650.	624.	627.	0.24	4	348.	
2726.39	0.0	233.	105.	303.	-0.52	0	2727.50	
5.19	0.0	2.79	5.96	2.07	2.55	2726.64	2725.80	
0.006856	0.045	0.080	0.045	0.080	0.05	-0.00	135.22	
	2721.20	210.	210.	210.	121.	232.	488.95	20.

*SECNO .430

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

BROWNING BRANCH 100 YEAR FLOOD 08/01/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
3685 20 TRIALS ATTEMPTED WSEL,CWSEL								
3693 PROBABLE MINIMUM SPECIFIC ENERGY								
3720 CRITICAL DEPTH ASSUMED								
0.43	1895.	541.	993.	361.	0.81	20	352.	
2735.46	2735.46	237.	101.	209.	0.57	8	2733.50	
5.36	0.0	2.28	9.79	1.72	4.59	2736.27	2733.50	
0.010826	0.044	0.100	0.040	0.110	0.28	-0.00	250.00	
	2730.10	540.	540.	540.	140.	237.	626.94	27.
*SECNO .460								
3265 DIVIDED FLOW								
3301 HV CHANGED MORE THAN HVINS								
0.46	1890.	1201.	390.	299.	0.06	3	643.	
2736.81	0.0	1087.	109.	289.	-0.76	0	2734.50	
5.71	0.0	1.10	3.59	1.04	0.53	2736.87	2734.50	
0.001332	0.043	0.100	0.040	0.070	0.08	-0.00	0.0	
	2731.10	180.	180.	180.	390.	262.	651.96	32.
*SECNO .480								
3280 CROSS SECTION 0.48 EXTENDED 1.12 FEET								

BROWNING BRANCH 100 YEAR FLOOD 08/01/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
3685 20 TRIALS ATTEMPTED WSEL,CWSEL								
3693 PROBABLE MINIMUM SPECIFIC ENERGY								
3720 CRITICAL DEPTH ASSUMED								
0.48	1890.	480.	600.	810.	0.43	20	700.	
2737.82	2737.82	250.	68.	379.	0.37	13	2737.00	
4.62	0.0	1.92	8.79	2.14	0.12	2738.25	2737.00	
0.012314	0.043	0.100	0.040	0.070	0.18	0.0	100.00	
	2733.20	40.	40.	40.	209.	491.	800.00	33.
*SECNO .480								
*** GR CARDS REPEATED								
3280 CROSS SECTION 0.48 EXTENDED 1.71 FEET								
0.48	1890.	474.	390.	1027.	0.11	2	700.	
2738.41	0.0	367.	78.	661.	-0.32	0	2737.00	

5.21	0.0	1.29	5.02	1.55	0.23	2738.51	2737.00	
0.003383	0.043	0.100	0.040	0.070	0.03	-0.00	100.00	
	2733.20	40.	40.	40.	209.	491.	800.00	33.

*SECNO .480
3280 CROSS SECTION 0.48 EXTENDED 1.76 FEET

3370 NORMAL BRIDGE,NRD= 14 MIN ELTRD= 2736.30 MAX ELLC= 2737.90

0.48	1890.	491.	178.	1221.	0.06	2	700.	
2738.46	0.0	307.	58.	624.	-0.05	0	2737.90	
5.26	0.0	1.60	3.05	1.96	0.00	2738.52	2738.30	
0.005701	0.043	0.100	0.040	0.070	0.00	-8.83	100.00	
	2733.20	1.	1.	1.	209.	491.	800.00	33.

*SECNO .480

*** GR CARDS REPEATED
3280 CROSS SECTION 0.48 EXTENDED 1.92 FEET

3370 NORMAL BRIDGE,NRD= 14 MIN ELTRD= 2736.30 MAX ELLC= 2737.90

0.48	1890.	483.	162.	1245.	0.05	2	700.	
2738.62	0.0	339.	61.	700.	-0.01	0	2737.90	
5.42	0.0	1.42	2.66	1.78	0.14	2738.67	2738.30	
0.004092	0.043	0.100	0.040	0.070	0.00	-8.83	100.00	
	2733.20	30.	30.	30.	209.	491.	800.00	34.

*SECNO .480
3280 CROSS SECTION 0.48 EXTENDED 1.91 FEET

0.48	1890.	470.	347.	1073.	0.07	1	700.	
2738.61	0.0	409.	81.	762.	0.02	0	2737.00	
5.41	0.0	1.15	4.28	1.41	0.00	2738.68	2737.00	
0.002330	0.043	0.100	0.040	0.070	0.01	-0.00	100.00	
	2733.20	1.	1.	1.	209.	491.	800.00	34.

*SECNO .480

*** GR CARDS REPEATED
3280 CROSS SECTION 0.48 EXTENDED 1.94 FEET

BROWNING BRANCH			100 YEAR FLOOD		08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
0.48	1890.	470.	342.	1078.	0.07	0	700.	

2738.63	0.0	414.	81.	773.	-0.00	0	2737.00	
5.43	0.0	1.13	4.21	1.39	0.02	2738.70	2737.00	
0.002235	0.043	0.100	0.040	0.070	0.00	0.0	100.00	
	2733.20	10.	10.	10.	209.	491.	800.00	34.

*SECNO .510

3301 HV CHANGED MORE THAN HVINS

BROWNING BRANCH			100 YEAR FLOOD		08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

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

0.51	1890.	128.	610.	1152.	0.61	20	292.	
2740.97	2740.97	55.	63.	300.	0.54	9	2739.40	
4.97	0.0	2.32	9.65	3.84	0.62	2741.58	2739.20	
0.016148	0.043	0.090	0.045	0.060	0.27	0.0	298.83	
	2736.00	130.	130.	130.	56.	236.	591.23	37.

*SECNO .510

*** GR CARDS REPEATED

0.51	1890.	158.	434.	1297.	0.20	2	304.	
2741.73	0.0	93.	75.	479.	-0.41	0	2739.40	
5.73	0.0	1.71	5.76	2.71	0.31	2741.93	2739.20	
0.004547	0.043	0.090	0.045	0.060	0.04	-0.00	297.66	
	2736.00	40.	40.	40.	57.	247.	601.67	37.

*SECNO .510

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

BROWNING BRANCH			100 YEAR FLOOD		08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3370 NORMAL BRIDGE,NRD= 6 MIN ELTRD= 2741.80 MAX ELLC= 2742.00

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

0.51	1890.	0.	933.	957.	0.76	3	171.
2741.52	2741.52	0.	115.	169.	0.56	6	2745.20
4.52	0.0	0.0	8.15	5.66	0.01	2742.28	2744.30
0.036255	0.043	0.090	0.045	0.060	0.28	-4.36	330.00

2737.00 1. 1. 1. 16. 253. 598.83 37.

*SECNO .540

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3370 NORMAL BRIDGE,NRD= 6 MIN ELTRD= 2741.80 MAX ELLC= 2742.00

0.54	1890.	0.	328.	1562.	0.17	4	237.	
2743.19	0.0	0.	118.	460.	-0.59	0	2745.20	
6.19	0.0	0.0	2.78	3.40	1.02	2743.36	2744.30	
0.005170	0.045	0.090	0.045	0.060	0.06	-55.68	330.00	
	2737.00	180.	180.	50.	16.	260.	605.96	38.

*SECNO .540
3280 CROSS SECTION 0.54 EXTENDED 1.40 FEET

BROWNING BRANCH 100 YEAR FLOOD 08/01/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST VOL
0.54	1890.	233.	454.	1203.	0.17	1	321.
2743.19	0.0	139.	84.	493.	0.00	0	2740.60
6.19	0.0	1.68	5.39	2.44	0.00	2743.37	2740.30
0.003619	0.045	0.090	0.045	0.060	0.00	-0.00	282.45
	2737.00	1.	1.	1.	73.	248.	603.00 38.

*SECNO .540

*** GR CARDS REPEATED
3280 CROSS SECTION 0.54 EXTENDED 1.52 FEET

0.54	1890.	235.	436.	1219.	0.15	0	321.	
2743.32	0.0	147.	86.	523.	-0.02	0	2740.60	
6.32	0.0	1.60	5.05	2.33	0.10	2743.47	2740.30	
0.003079	0.045	0.090	0.045	0.060	0.00	-0.00	282.17	
	2737.00	30.	30.	30.	73.	248.	603.00	39.

*SECNO .610

3265 DIVIDED FLOW

BROWNING BRANCH 100 YEAR FLOOD 08/01/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV

DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
3685 20 TRIALS ATTEMPTED WSEL,CWSEL								
3693 PROBABLE MINIMUM SPECIFIC ENERGY								
3720 CRITICAL DEPTH ASSUMED								
0.61	1885.	146.	893.	846.	0.58	20	421.	
2746.48	2746.48	119.	104.	352.	0.43	6	2744.80	
6.18	0.0	1.23	8.57	2.40	1.60	2747.06	2746.80	
0.011365	0.045	0.100	0.045	0.100	0.22	-0.00	1.43	
	2740.30	300.	300.	300.	211.	310.	522.08	43.
*SECNO .610								
3265 DIVIDED FLOW								
3280 CROSS SECTION	0.61 EXTENDED		2.72 FEET					
0.61	1885.	347.	561.	976.	0.18	2	468.	
2747.21	0.0	267.	100.	512.	-0.40	0	2744.80	
5.21	0.0	1.30	5.61	1.91	0.29	2747.39	2746.80	
0.005054	0.045	0.100	0.045	0.100	0.04	-0.00	0.0	
	2742.00	40.	40.	40.	213.	306.	518.00	44.
*SECNO .610								
3265 DIVIDED FLOW								
3280 CROSS SECTION	0.61 EXTENDED		2.82 FEET					
3370 NORMAL BRIDGE,NRD= 6 MIN ELTRD= 2746.50 MAX ELLC= 2746.00								
0.61	1885.	426.	171.	1288.	0.09	2	468.	
2747.32	0.0	265.	51.	528.	-0.09	0	2746.70	
5.32	0.0	1.60	3.35	2.44	0.01	2747.40	2747.00	
0.007802	0.045	0.100	0.045	0.100	0.01	-26.65	0.0	
	2742.00	1.	1.	1.	213.	306.	518.00	44.
*SECNO .610								
*** GR CARDS REPEATED								
3265 DIVIDED FLOW								
3280 CROSS SECTION	0.61 EXTENDED		3.04 FEET					
BROWNING BRANCH			100 YEAR FLOOD		08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3370 NORMAL BRIDGE,NRD= 6 MIN ELTRD= 2746.50 MAX ELLC= 2746.00

0.61	1885.	471.	142.	1272.	0.07	2	468.	
2747.54	0.0	310.	51.	583.	-0.02	0	2746.70	
5.54	0.0	1.52	2.78	2.18	0.20	2747.61	2747.00	
0.005760	0.045	0.100	0.045	0.100	0.00	-30.36	0.0	
	2742.00	30.	30.	30.	213.	306.	518.00	45.

*SECNO .610

3265 DIVIDED FLOW

3280 CROSS SECTION 0.61 EXTENDED 3.01 FEET

0.61	1885.	395.	519.	971.	0.13	2	468.	
2747.51	0.0	326.	107.	584.	0.06	0	2744.80	
5.51	0.0	1.21	4.83	1.66	0.00	2747.64	2746.80	
0.003403	0.045	0.100	0.045	0.100	0.03	-0.00	0.0	
	2742.00	1.	1.	1.	213.	306.	518.00	45.

*SECNO .610

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3265 DIVIDED FLOW

3280 CROSS SECTION 0.61 EXTENDED 3.06 FEET

0.61	1885.	402.	513.	970.	0.12	0	468.	
2747.55	0.0	335.	109.	595.	-0.01	0	2744.80	
5.55	0.0	1.20	4.72	1.63	0.03	2747.67	2746.80	
0.003213	0.045	0.100	0.045	0.100	0.00	0.0	0.0	
	2742.00	10.	10.	10.	213.	306.	518.00	45.

*SECNO .740

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

BROWNING BRANCH 100 YEAR FLOOD 08/01/81

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

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

0.74	1880.	43.	1468.	369.	0.81	20	352.
2758.23	2758.23	31.	180.	239.	0.69	12	2756.50

6.93	0.0	1.41	8.14	1.55	3.47	2759.04	2756.50	
0.015709	0.047	0.120	0.060	0.110	0.35	-0.00	469.54	
	2751.30	570.	570.	570.	54.	328.	851.32	55.

*SECNO .740

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

0.74	1880.	234.	1013.	632.	0.19	3	844.	
2759.20	0.0	324.	216.	552.	-0.62	0	2756.50	
7.90	0.0	0.72	4.69	1.14	0.29	2759.39	2756.50	
0.004097	0.047	0.120	0.060	0.110	0.06	-0.00	66.62	
	2751.30	40.	40.	40.	457.	417.	940.91	55.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	15.00	0.01	130.00	2.10
	ELCHU	ELCHD						
	2751.50	2751.50						

*SECNO .740

*** GR CARDS REPEATED
PRESS FLOW BECAUSE EGLWC OF 2759.39 EXCEEDS 1.5 DEPTH
6870 D.S. ENERGY OF 2759.39 HIGHER THAN COMPUTED ENERGY OF 2759.30

3265 DIVIDED FLOW

BROWNING BRANCH			100 YEAR FLOOD		08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2764.40	2759.39	0.00	1618.	265.	130.	131.	2756.60

ELTRD
2756.50

0.74	1880.	235.	1012.	633.	0.19	2	845.	
2759.20	0.0	325.	216.	553.	-0.00	0	2756.50	
7.90	0.0	0.72	4.68	1.14	0.0	2759.39	2756.50	
0.004078	0.047	0.120	0.060	0.110	0.0	-0.00	66.26	
	2751.30	30.	30.	30.	457.	418.	941.21	56.

*SECNO .740

*** GR CARDS REPEATED

3265 DIVIDED FLOW

0.74	1880.	232.	1039.	609.	0.20	1	852.	
2759.23	0.0	340.	217.	566.	0.01	0	2756.50	
7.93	0.0	0.68	4.78	1.08	0.03	2759.43	2756.50	
0.002930	0.047	0.110	0.050	0.100	0.01	-0.00	62.53	
	2751.30	10.	10.	10.	461.	421.	944.33	56.

*SECNO .800

3265 DIVIDED FLOW

3280 CROSS SECTION 0.80 EXTENDED 1.14 FEET

0.80	1875.	419.	872.	584.	0.43	2	415.	
2760.44	0.0	259.	116.	323.	0.23	0	2758.20	
5.64	0.0	1.62	7.53	1.81	1.33	2760.88	2758.60	
0.007439	0.047	0.100	0.045	0.100	0.12	-0.00	25.00	
	2754.80	300.	300.	300.	238.	268.	530.00	63.

*SECNO .800

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3280 CROSS SECTION 0.80 EXTENDED 1.58 FEET

0.80	1875.	489.	754.	632.	0.24	2	415.	
2760.87	0.0	344.	127.	409.	-0.19	0	2758.20	
6.07	0.0	1.42	5.95	1.55	0.22	2761.11	2758.60	
0.004114	0.047	0.100	0.045	0.100	0.02	-0.00	25.00	
	2754.80	40.	40.	40.	238.	268.	530.00	63.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	11.00	0.01	55.00	0.50

ELCHU	ELCHD
2754.80	2754.80

*SECNO .800

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3280 CROSS SECTION 0.80 EXTENDED 1.77 FEET

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2789.74	2761.11	0.00	1663.	217.	55.	55.	2759.00

ELTRD
2759.00

0.80	1875.	513.	714.	647.	0.19	2	415.	
2761.06	0.0	380.	131.	445.	-0.05	0	2758.20	
6.26	0.0	1.35	5.44	1.46	0.15	2761.26	2758.60	
0.003277	0.047	0.100	0.045	0.100	0.0	-0.00	25.00	
	2754.80	30.	30.	30.	238.	268.	530.00	64.

*SECNO .800

3265 DIVIDED FLOW

3280 CROSS SECTION 0.80 EXTENDED 0.95 FEET

BROWNING BRANCH			100 YEAR FLOOD		08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

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

0.80	1875.	372.	885.	619.	0.58	20	445.	
2761.25	2761.25	222.	101.	329.	0.39	9	2759.20	
5.45	0.0	1.68	8.73	1.88	0.16	2761.84	2756.50	
0.009431	0.047	0.100	0.045	0.100	0.20	0.0	25.00	
	2755.80	30.	30.	30.	236.	269.	530.00	65.

*SECNO .980

BROWNING BRANCH			100 YEAR FLOOD		08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

0.98	1865.	459.	893.	513.	0.49	16	577.	
2774.83	2774.83	301.	113.	248.	-0.10	12	2773.40	
6.33	0.0	1.52	7.87	2.07	7.64	2775.32	2773.50	
0.007675	0.046	0.100	0.040	0.060	0.01	0.0	0.0	
	2768.50	900.	900.	900.	260.	317.	576.52	78.

*SECNO .980

*** GR CARDS REPEATED

0.98	1865.	503.	676.	686.	0.18	3	604.	
2775.35	0.0	429.	128.	412.	-0.31	0	2773.40	
6.85	0.0	1.17	5.28	1.66	0.18	2775.53	2773.50	
0.002938	0.046	0.100	0.040	0.060	0.03	-0.00	0.0	
	2768.50	40.	40.	40.	260.	344.	604.33	79.

*SECNO .980

3370 NORMAL BRIDGE,NRD= 11 MIN ELTRD= 2774.20 MAX ELLC= 2774.40

0.98	1865.	764.	202.	898.	0.09	2	610.	
2775.45	0.0	432.	51.	392.	-0.09	0	2774.80	
6.95	0.0	1.77	3.95	2.29	0.00	2775.54	2774.70	
0.006463	0.046	0.100	0.040	0.060	0.01	-41.02	0.0	
	2768.50	1.	1.	1.	262.	349.	610.13	79.

*SECNO .980

*** GR CARDS REPEATED

3370 NORMAL BRIDGE,NRD= 11 MIN ELTRD= 2774.20 MAX ELLC= 2774.40

0.98	1865.	763.	137.	965.	0.06	3	620.	
2775.64	0.0	479.	52.	457.	-0.03	0	2774.80	
7.14	0.0	1.59	2.64	2.11	0.16	2775.70	2774.70	
0.004626	0.046	0.100	0.040	0.060	0.00	-43.76	0.0	
	2768.50	30.	30.	30.	262.	359.	620.27	80.

*SECNO .980

BROWNING BRANCH			100 YEAR FLOOD		08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
0.98	1865.	169.	734.	962.	0.21	2	620.	
2775.64	0.0	211.	134.	512.	0.15	0	2773.40	
7.14	0.0	0.80	5.49	1.88	0.07	2775.85	2773.50	
0.002992	0.046	0.100	0.040	0.060	0.08	-0.00	0.0	
	2768.50	20.	20.	20.	260.	360.	620.13	80.

*SECNO .980

BROWNING BRANCH			100 YEAR FLOOD		08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

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

0.98	1865.	415.	866.	584.	0.48	20	567.
2775.84	2775.84	270.	111.	258.	0.26	17	2773.20
4.64	0.0	1.54	7.84	2.27	0.09	2776.32	2774.90

0.008412	0.046	0.100	0.040	0.060	0.13	-0.00	0.0	
	2771.20	20.	20.	20.	266.	302.	567.39	80.

*SECNO 1.190

3265 DIVIDED FLOW

3280 CROSS SECTION 1.19 EXTENDED 0.02 FEET

BROWNING BRANCH 100 YEAR FLOOD 08/01/81

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

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1.19	1300.	581.	678.	41.	0.42	15	562.	
2792.02	2792.02	369.	96.	47.	-0.06	12	2791.70	
6.02	0.0	1.58	7.03	0.87	9.13	2792.44	2791.60	
0.008145	0.045	0.085	0.045	0.085	0.01	-0.00	0.0	
	2786.00	1100.	1100.	1100.	521.	226.	747.02	95.

*SECNO 1.190

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3280 CROSS SECTION 1.19 EXTENDED 0.53 FEET

1.19	1300.	715.	485.	100.	0.13	2	671.	
2792.52	0.0	592.	107.	125.	-0.28	0	2791.70	
6.52	0.0	1.21	4.55	0.80	0.19	2792.65	2791.60	
0.002993	0.045	0.085	0.045	0.085	0.03	-0.00	0.0	
	2786.00	40.	40.	40.	521.	280.	800.69	96.

SPECIAL BRIDGE

SB	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
HK							
1.25	1.60	3.00	0.0	6.00	0.01	27.00	0.0
ELCHU	ELCHD						
2787.30	2787.30						

*SECNO 1.190

3265 DIVIDED FLOW

3280 CROSS SECTION 1.19 EXTENDED 0.56 FEET

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPF	BAREA	TAREA	ELLC
2850.12	2792.66	0.00	1235.	65.	27.	27.	2791.80

ELTRD
2791.80

1.19	1300.	676.	445.	179.	0.10	2	762.	
2792.56	0.0	609.	107.	223.	-0.03	0	2791.70	
6.56	0.0	1.11	4.15	0.80	0.01	2792.66	2791.60	
0.002463	0.045	0.085	0.045	0.085	0.0	-0.00	0.0	
	2786.00	30.	30.	30.	521.	281.	801.54	96.

*SECNO 1.190

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3280 CROSS SECTION 1.19 EXTENDED 0.59 FEET

BROWNING BRANCH 100 YEAR FLOOD 08/01/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
1.19	1300.	679.	438.	183.	0.10	0	762.	
2792.59	0.0	621.	108.	230.	-0.01	0	2791.70	
6.59	0.0	1.09	4.06	0.80	0.02	2792.69	2791.60	
0.002345	0.045	0.085	0.045	0.085	0.00	0.0	0.0	
	2786.00	10.	10.	10.	521.	281.	802.16	96.

*SECNO 1.300

3265 DIVIDED FLOW

3280 CROSS SECTION 1.30 EXTENDED 0.48 FEET

BROWNING BRANCH 100 YEAR FLOOD 08/01/81

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

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

1.30	1300.	207.	563.	530.	0.57	20	441.	
2800.98	2800.98	164.	63.	221.	0.47	13	2800.20	
4.68	0.0	1.27	8.88	2.39	2.16	2801.55	2799.00	
0.011984	0.045	0.100	0.040	0.100	0.24	-0.00	21.00	
	2796.30	480.	480.	480.	288.	157.	465.68	104.

*SECNO 1.300

*** GR CARDS REPEATED
3280 CROSS SECTION 1.30 EXTENDED 1.17 FEET

1.30	1300.	377.	411.	512.	0.16	2	475.	
2801.66	0.0	356.	76.	332.	-0.41	0	2800.20	
5.36	0.0	1.06	5.43	1.54	0.24	2801.82	2799.00	
0.003526	0.045	0.100	0.040	0.100	0.04	-0.00	21.00	
	2796.30	40.	40.	40.	288.	187.	496.24	105.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	5.00	0.01	38.00	1.90

ELCHU	ELCHD
2796.30	2796.30

*SECNO 1.300

*** GR CARDS REPEATED
3280 CROSS SECTION 1.30 EXTENDED 2.13 FEET

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2830.74	2801.82	0.00	1058.	243.	38.	39.	2799.70

ELTRD
2801.00

1.30	1300.	490.	300.	510.	0.05	2	550.	
2802.63	0.0	625.	93.	558.	-0.12	0	2800.20	
6.33	0.0	0.78	3.22	0.91	0.85	2802.68	2799.00	
0.000943	0.045	0.100	0.040	0.100	0.0	-0.00	21.00	
	2796.30	30.	30.	30.	288.	262.	570.54	105.

*SECNO 1.300

*** GR CARDS REPEATED
3280 CROSS SECTION 1.30 EXTENDED 2.15 FEET

1.30	1300.	491.	299.	510.	0.05	1	550.	
2802.64	0.0	630.	93.	562.	-0.00	0	2800.20	
6.34	0.0	0.78	3.20	0.91	0.01	2802.69	2799.00	
0.000925	0.045	0.100	0.040	0.100	0.00	-0.00	21.00	
	2796.30	10.	10.	10.	288.	262.	570.72	106.

THIS RUN EXECUTED 08/01/81 8:19:58

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**************************************************
  HEC2 RELEASE DATED NOV 76 UPDATED JULY1979
  ERROR CORR -  01,02,03
  MODIFICATION -  50,51,52,53,54
**************************************************

T1      WAYNESVILLE NC                                                  1935
T2      500 YEAR FLOOD                                                  1950
T3      BROWNING BRANCH                                                 1945

J1  ICHECK     INQ    NINV    IDIR    STRT  METRIC   HVINS      Q      WSEL     FQ
         0.      5.      0.      0. 0.00500      0.     0.0      0.      0.0     0.0  1950
J2  NPROF   IPLOT   PRFVS   XSECV   XSECH      FN   ALLDC     IBW   CHNIM ITRACE
        15.      0.     -1.      0.      0.     0.0     0.0      0.      0.      0.  1955
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*PROF 4

CCHV= 0.100 CEHV= 0.500
*SECNO .050
2096 HSEL NOT GIVEN,AVG OF MAX,MIN USED

3265 DIVIDED FLOW

3280 CROSS SECTION 0.05 EXTENDED 0.63 FEET

BROWNING BRANCH 500 YEAR FLOOD 08/01/81

MILE / ELEV / DEPTH / SLOPE	Q / CRIWS / WSELK / WTN / ELMIN	QLOB / ALOB / VLOB / XNL / XLOBL	QCH / ACH / VCH / XNCH / XLCH	QROB / AROB / VROB / XNR / XLOBR	HV / DHV / HL / OLOSS / WSDL	ITRIAL / IDC / EG / CORAR / WSDR	TOPWID / BANK ELEV LEFT/RIGHT / SSTA / ENDST	VOL
0.05	2900.	464.	1138.	1298.	0.43	0	527.	
2706.63	0.0	226.	143.	575.	0.50	0	2701.00	
8.13	0.0	2.06	7.94	2.26	0.0	2707.06	2701.50	
0.004990	0.0	0.100	0.045	0.070	0.0	-0.00	102.81	
	2698.50	0.	0.	0.	167.	400.	670.00	0.

*SECNO .140
3280 CROSS SECTION 0.14 EXTENDED 1.19 FEET

BROWNING BRANCH 500 YEAR FLOOD 08/01/81

MILE / ELEV / DEPTH / SLOPE	Q / CRIWS / WSELK / WTN / ELMIN	QLOB / ALOB / VLOB / XNL / XLOBL	QCH / ACH / VCH / XNCH / XLCH	QROB / AROB / VROB / XNR / XLOBR	HV / DHV / HL / OLOSS / WSDL	ITRIAL / IDC / EG / CORAR / WSDR	TOPWID / BANK ELEV LEFT/RIGHT / SSTA / ENDST	VOL
7185 MINIMUM SPECIFIC ENERGY								
3720 CRITICAL DEPTH ASSUMED								
0.14	2900.	910.	657.	1333.	0.65	12	384.	
2711.49	2711.49	224.	59.	308.	0.22	13	2708.70	
5.99	0.0	4.06	11.18	4.32	3.85	2712.14	2709.20	
0.017927	0.045	0.070	0.045	0.070	0.11	-0.00	110.89	
	2705.50	450.	450.	450.	213.	171.	495.00	8.

*SECNO .180

3265 DIVIDED FLOW

3280 CROSS SECTION 0.18 EXTENDED 0.02 FEET

0.18	2900.	341.	858.	1701.	0.46	3	365.	
2714.72	0.0	142.	100.	498.	-0.20	0	2712.60	
6.12	0.0	2.41	8.61	3.41	3.01	2715.17	2712.80	
0.009681	0.045	0.090	0.045	0.070	0.02	-0.00	35.00	
	2708.60	250.	230.	230.	276.	253.	563.03	12.

*SECNO .210

3265 DIVIDED FLOW

BROWNING BRANCH			500 YEAR FLOOD		08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

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

0.21	2900.	741.	1298.	861.	0.74	20	476.	
2718.47	2718.47	329.	131.	304.	0.28	8	2714.70	
7.97	0.0	2.25	9.91	2.83	0.99	2719.21	2714.80	
0.008534	0.044	0.090	0.045	0.070	0.14	-0.00	41.59	
	2710.50	150.	100.	100.	268.	257.	567.42	14.

*SECNO .210

*** GR CARDS REPEATED

3265 DIVIDED FLOW

BROWNING BRANCH			500 YEAR FLOOD		08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

0.21	2900.	844.	1005.	1051.	0.30	3	521.	
2719.17	0.0	478.	145.	495.	-0.44	0	2714.70	
8.67	0.0	1.77	6.93	2.12	0.21	2719.47	2714.80	
0.003653	0.044	0.090	0.045	0.070	0.04	-0.00	35.00	
	2710.50	40.	40.	40.	275.	296.	605.84	14.

*SECNO .210

3265 DIVIDED FLOW

3370 NORMAL BRIDGE,NRD= 6 MIN ELTRD= 2717.00 MAX ELLC= 2716.10

0.21	2900.	1176.	566.	1159.	0.15	2	524.	
2719.33	0.0	447.	126.	423.	-0.15	0	2717.90	
8.83	0.0	2.63	4.48	2.74	0.01	2719.49	2717.90	
0.009497	0.044	0.090	0.045	0.070	0.01	-36.00	35.00	
	2710.50	1.	1.	1.	275.	299.	608.81	14.

*SECNO .210

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3370 NORMAL BRIDGE,NRD= 6 MIN ELTRD= 2717.00 MAX ELLC= 2716.10

0.21	2900.	1167.	513.	1220.	0.12	2	527.	
2719.53	0.0	488.	130.	479.	-0.03	0	2717.90	
9.03	0.0	2.39	3.94	2.55	0.16	2719.65	2717.90	
0.007066	0.044	0.090	0.045	0.070	0.00	-36.00	35.00	
	2710.50	20.	20.	20.	275.	302.	612.06	15.

*SECNO .210

3265 DIVIDED FLOW

0.21	2900.	871.	902.	1127.	0.20	2	526.	
2719.49	0.0	549.	152.	590.	0.08	0	2714.70	
8.99	0.0	1.59	5.95	1.91	0.00	2719.70	2714.80	
0.002537	0.044	0.090	0.045	0.070	0.04	-0.00	35.00	
	2710.50	1.	1.	1.	275.	301.	611.41	15.

*SECNO .210

*** GR CARDS REPEATED

3265 DIVIDED FLOW

0.21	2900.	874.	890.	1136.	0.20	1	527.	
2719.53	0.0	558.	152.	603.	-0.01	0	2714.70	
9.03	0.0	1.57	5.84	1.88	0.02	2719.72	2714.80	
0.002427	0.044	0.090	0.045	0.070	0.00	-0.00	35.00	
	2710.50	10.	10.	10.	275.	302.	612.12	15.

*SECNO .250

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

BROWNING BRANCH			500 YEAR FLOOD		08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

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

0.25	2900.	780.	1409.	711.	0.84	20	513.	
2722.21	2722.21	381.	136.	368.	0.65	9	2718.20	
8.21	0.0	2.05	10.37	1.93	0.42	2723.05	2718.30	
0.010983	0.044	0.120	0.050	0.120	0.32	0.0	35.00	
	2714.00	130.	80.	80.	275.	288.	598.20	18.

```
*SECNO .250
*** GR CARDS REPEATED
3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS
     0.25     2900.      898.     1093.      909.     0.32        3      527.
  2723.05      0.0       560.      153.      606.    -0.52        0     2718.20
     9.05      0.0       1.60      7.16      1.50     0.27  2723.37     2718.30
 0.004489     0.044     0.120     0.050     0.120     0.05    -0.00       35.00
             2714.00       40.       40.       40.      275.      302.     612.34       19.

*SECNO .250
3265 DIVIDED FLOW
3280 CROSS SECTION      0.25 EXTENDED      5.05 FEET

3370 NORMAL BRIDGE,NRD= 14 MIN ELTRD= 2719.00 MAX ELLC= 2721.30
     0.25     2900.      209.     1917.      774.     0.15        2      343.
  2723.25      0.0       188.      557.      296.    -0.17        0     2721.50
     9.25      0.0       1.11      3.44      2.61     0.01  2723.40     2720.00
 0.007770     0.044     0.120     0.050     0.120     0.02  -429.72       55.00
             2714.00        1.        1.        1.      220.      131.     405.00       19.

*SECNO .250
*** GR CARDS REPEATED
3280 CROSS SECTION      0.25 EXTENDED      5.28 FEET

3370 NORMAL BRIDGE,NRD= 14 MIN ELTRD= 2719.00 MAX ELLC= 2721.30
     0.25     2900.      233.     1889.      778.     0.13        2      350.
  2723.48      0.0       217.      583.      314.    -0.02        0     2721.50
     9.48      0.0       1.07      3.24      2.48     0.21  2723.61     2720.00
 0.006508     0.044     0.120     0.050     0.120     0.00  -438.72       55.00
             2714.00       30.       30.       30.      220.      131.     405.00       20.

*SECNO .250
3280 CROSS SECTION      0.25 EXTENDED      5.34 FEET

     0.25     2900.      385.     2172.      343.     0.08        2      350.
  2723.54      0.0       604.      865.      423.    -0.06        0     2717.50
     9.54      0.0       0.64      2.51      0.81     0.00  2723.62     2716.50
 0.000456     0.044     0.120     0.050     0.120     0.01    -0.00       55.00
             2714.00        1.        1.        1.      220.      131.     405.00       20.
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*SECNO .260
3280 CROSS SECTION 0.26 EXTENDED 5.22 FEET

BROWNING BRANCH 500 YEAR FLOOD 08/01/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
0.26	2900.	1074.	1250.	577.	0.17	2	255.	
2723.52	0.0	642.	272.	309.	0.09	0	2719.00	
8.02	0.0	1.67	4.59	1.86	0.02	2723.68	2717.90	
0.001886	0.044	0.100	0.050	0.100	0.05	-0.00	150.00	
	2715.50	25.	25.	25.	175.	80.	405.00	20.

*SECNO .300

3265 DIVIDED FLOW

0.30	2900.	1359.	1002.	539.	0.64	3	236.	
2724.15	0.0	289.	111.	144.	0.47	0	2724.80	
5.35	0.0	4.70	9.03	3.74	0.87	2724.79	2723.20	
0.018600	0.045	0.080	0.050	0.080	0.24	-0.00	110.89	
	2718.80	200.	200.	200.	146.	134.	390.00	25.

*SECNO .340

3265 DIVIDED FLOW

0.34	2895.	960.	827.	1108.	0.30	3	375.	
2726.93	0.0	288.	121.	423.	-0.33	0	2727.50	
5.73	0.0	3.33	6.83	2.62	2.41	2727.23	2725.80	
0.007795	0.045	0.080	0.045	0.080	0.03	-0.00	131.28	
	2721.20	210.	210.	210.	125.	253.	509.34	28.

*SECNO .430

3301 HV CHANGED MORE THAN HVINS

BROWNING BRANCH 500 YEAR FLOOD 08/01/81

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

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

0.43	2890.	904.	1267.	718.	0.92	20	416.	
2736.02	2736.02	311.	113.	341.	0.61	8	2733.50	
5.92	0.0	2.91	11.24	2.10	5.24	2736.94	2733.50	
0.012410	0.044	0.100	0.040	0.110	0.31	-0.00	250.00	
	2730.10	540.	540.	540.	140.	276.	666.40	38.

*SECNO .460

3301 HV CHANGED MORE THAN HVINS

0.46	2890.	1785.	495.	610.	0.06	3	705.	
2737.53	0.0	1360.	123.	486.	-0.85	0	2734.50	
6.43	0.0	1.31	4.03	1.25	0.57	2737.59	2734.50	
0.001418	0.043	0.100	0.040	0.070	0.09	-0.00	0.0	
	2731.10	180.	180.	180.	390.	315.	705.02	43.

*SECNO .480

3280 CROSS SECTION 0.48 EXTENDED 1.42 FEET

BROWNING BRANCH			500 YEAR FLOOD		08/01781			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

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

0.48	2885.	730.	719.	1436.	0.46	20	700.	
2738.12	2738.12	310.	73.	522.	0.39	17	2737.00	
4.92	0.0	2.36	9.84	2.75	0.13	2738.57	2737.00	
0.014132	0.043	0.100	0.040	0.070	0.20	0.0	100.00	
	2733.20	40.	40.	40.	209.	491.	800.00	45.

*SECNO .480

*** GR CARDS REPEATED
3280 CROSS SECTION 0.48 EXTENDED 2.05 FEET

0.48	2885.	714.	494.	1677.	0.14	2	700.	
2738.75	0.0	437.	83.	828.	-0.31	0	2737.00	
5.55	0.0	1.63	5.94	2.03	0.29	2738.89	2737.00	
0.004334	0.043	0.100	0.040	0.070	0.03	-0.00	100.00	
	2733.20	40.	40.	40.	209.	491.	800.00	46.

*SECNO .480

3280 CROSS SECTION 0.48 EXTENDED 2.11 FEET

3370 NORMAL BRIDGE,NRD= 14 MIN ELTRD= 2736.30 MAX ELLC= 2737.90

0.48	2885.	725.	223.	1937.	0.09	2	700.	
2738.81	0.0	378.	64.	795.	-0.05	0	2737.90	
5.61	0.0	1.92	3.48	2.44	0.01	2738.90	2738.30	
0.006572	0.043	0.100	0.040	0.070	0.01	-8.83	100.00	
	2733.20	1.	1.	1.	209.	491.	800.00	46.

*SECNO .480

*** GR CARDS REPEATED
3280 CROSS SECTION 0.48 EXTENDED 2.30 FEET

3370 NORMAL BRIDGE,NRD= 14 MIN ELTRD= 2736.30 MAX ELLC= 2737.90

0.48	2885.	715.	205.	1965.	0.07	2	700.	
2739.00	0.0	415.	67.	884.	-0.02	0	2737.90	
5.80	0.0	1.72	3.06	2.22	0.17	2739.07	2738.30	
0.004773	0.043	0.100	0.040	0.070	0.00	-8.83	100.00	
	2733.20	30.	30.	30.	209.	491.	800.00	47.

*SECNO .480
3280 CROSS SECTION 0.48 EXTENDED 2.29 FEET

0.48	2885.	708.	444.	1734.	0.10	1	700.	
2738.99	0.0	486.	87.	945.	0.03	0	2737.00	
5.79	0.0	1.46	5.09	1.83	0.00	2739.09	2737.00	
0.002995	0.043	0.100	0.040	0.070	0.01	-0.00	100.00	
	2733.20	1.	1.	1.	209.	491.	800.00	47.

*SECNO .480

*** GR CARDS REPEATED
3280 CROSS SECTION 0.48 EXTENDED 2.33 FEET

BROWNING BRANCH			500 YEAR FLOOD		08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
0.48	2885.	707.	438.	1740.	0.10	0	700.	
2739.02	0.0	492.	88.	960.	-0.00	0	2737.00	
5.82	0.0	1.44	5.00	1.81	0.03	2739.12	2737.00	
0.002867	0.043	0.100	0.040	0.070	0.00	0.0	100.00	
	2733.20	10.	10.	10.	209.	491.	800.00	47.

*SECNO .510

3301 HV CHANGED MORE THAN HVINS

BROWNING BRANCH			500 YEAR FLO' ,		08/01/81			
MILE	Q	QLOB	QCH	(.OB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

0.51	2885.	226.	755.	1905.	0.72	20	299.	
2741.40	2741.40	76.	70.	399.	0.62	10	2739.40	
5.40	0.0	2.96	10.77	4.77	0.76	2742.11	2739.20	
0.017535	0.043	0.090	0.045	0.060	0.31	-0.00	298.17	
	2736.00	130.	130.	130.	57.	242.	597.09	50.

*SECNO .510

*** GR CARDS REPEATED

0.51	2885.	258.	566.	2061.	0.28	2	308.	
2742.24	0.0	118.	84.	601.	-0.44	0	2739.40	
6.24	0.0	2.19	6.78	3.43	0.36	2742.52	2739.20	
0.005487	0.043	0.090	0.045	0.060	0.04	-0.00	296.88	
	2736.00	40.	40.	40.	58.	250.	604.51	51.

*SECNO .510

4575 CRITICAL DEPTH ASSUMED BELOW ELLC OF 2742.000 EGLC= 2743.009
EGC= 2743.010 WSEL= 2742.018

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

BROWNING BRANCH			500 YEAR FLOOD		08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3370 NORMAL BRIDGE,NRD= 6 MIN ELTRD= 2741.80 MAX ELLC= 2742.00

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

0.51	2885.	0.	1014.	1871.	1.01	4	193.	
2742.00	2742.00	0.	118.	241.	0.73	12	2745.20	
5.00	0.0	0.0	8.59	7.76	0.01	2743.01	2744.30	
0.049366	0.043	0.090	0.045	0.060	0.37	-16.00	330.00	
	2737.00	1.	1.	1.	16.	258.	604.15	51.

*SECNO .540

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3370 NORMAL BRIDGE,NRD= 6 MIN ELTRD= 2741.80 MAX ELLC= 2742.00

0.54	2885.	0.	354.	2531.	0.25	5	263.

2743.91	0.0	0.	110.	612.	-0.76	0	2745.20	
6.91	0.0	0.0	3.00	4.14	1.07	2744.16	2744.30	
0.006034	0.045	0.090	0.045	0.060	0.08	-79.93	330.00	
	2737.00	180.	180.	50.	16.	261.	607.02	52.

*SECNO .540
3280 CROSS SECTION 0.54 EXTENDED 2.17 FEET

BROWNING BRANCH 500 YEAR FLOOD 08/01/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
0.54	2885.	372.	558.	1955.	0.19	2	322.	
2743.97	0.0	189.	97.	677.	-0.06	0	2740.60	
6.97	0.0	1.96	5.74	2.89	0.00	2744.17	2740.30	
0.003391	0.045	0.090	0.045	0.060	0.01	-0.00	280.70	
	2737.00	1.	1.	1.	75.	248.	603.00	52.

*SECNO .540

*** GR CARDS REPEATED
3280 CROSS SECTION 0.54 EXTENDED 2.28 FEET

0.54	2885.	373.	544.	1967.	0.18	2	323.	
2744.08	0.0	197.	99.	704.	-0.02	0	2740.60	
7.08	0.0	1.90	5.49	2.79	0.10	2744.26	2740.30	
0.003017	0.045	0.090	0.045	0.060	0.00	-0.00	280.44	
	2737.00	30.	30.	30.	75.	248.	603.00	52.

*SECNO .610

3265 DIVIDED FLOW

3280 CROSS SECTION 0.61 EXTENDED 0.29 FEET

3301 HV CHANGED MORE THAN HVINS

BROWNING BRANCH 500 YEAR FLOOD 08/01/81

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

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

0.61	2875.	340.	1206.	1329.	0.83	20	433.	
2746.79	2746.79	181.	112.	416.	0.66	9	2744.80	
6.49	0.0	1.88	10.77	3.20	1.78	2747.62	2746.80	

```
0.016727     0.045     0.100     0.045     0.100      0.33     -0.00      0.0
             2740.30     300.      300.      300.      213.      310.   522.73       58.

*SECNO .610
3265 DIVIDED FLOW
3280 CROSS SECTION      0.61 EXTENDED      3.33 FEET

3301 HV CHANGED MORE THAN HVINS
      0.61     2875.      667.      735.     1473.      0.21         2      468.
   2747.83      0.0       390.      116.      662.     -0.62         0   2744.80
      5.83      0.0       1.71      6.37      2.22      0.35   2748.04   2746.80
  0.005376     0.045     0.100     0.045     0.100      0.06     -0.00      0.0
             2742.00        40.       40.       40.      213.      306.   518.00       59.

*SECNO .610
3265 DIVIDED FLOW
3280 CROSS SECTION      0.61 EXTENDED      3.45 FEET

3370 NORMAL BRIDGE,NRD=  6 MIN ELTRD= 2746.50 MAX ELLC= 2746.00
      0.61     2875.      819.      161.     1896.      0.10         2      468.
   2747.95      0.0       395.       56.      685.     -0.11         0   2746.70
      5.95      0.0       2.07      2.87      2.77      0.01   2748.05   2747.00
  0.007972     0.045     0.100     0.045     0.100      0.01    -32.31      0.0
             2742.00          1.        1.        1.      213.      306.   518.00       59.

*SECNO .610
*** GR CARDS REPEATED
3265 DIVIDED FLOW
3280 CROSS SECTION      0.61 EXTENDED      3.68 FEET

    BROWNING BRANCH                 500 YEAR FLOOD       08/01/81
   MILE       Q          QLOB       QCH        QROB       HV         ITRIAL     TOPWID
   ELEV       CRIWS      ALOB       ACH        AROB       DHV        IDC        BANK ELEV
   DEPTH      WSELK      VLOB       VCH        VROB       HL         EG      LEFT/RIGHT
   SLOPE      WTN        XNL        XNCH       XNR        QLOSS      CORAR      SSTA
              ELMIN      XLOBL      XLCH       XLOBR      WSDL       WSDR       ENDST       VOL

3370 NORMAL BRIDGE,NRD=  6 MIN ELTRD= 2746.50 MAX ELLC= 2746.00
      0.61     2875.      856.      157.     1862.      0.09         2      468.
   2748.18      0.0       441.       60.      741.     -0.02         0   2746.70
      6.18      0.0       1.94      2.61      2.51      0.21   2748.26   2747.00
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  0.006069     0.045     0.100     0.045     0.100      0.00    -32.31      0.0
             2742.00       30.       30.       30.      213.      306.    518.00        60.

*SECNO .610

3265 DIVIDED FLOW

3280 CROSS SECTION      0.61 EXTENDED      3.65 FEET

      0.61     2875.      718.      691.     1466.      0.16         2      468.
   2748.15       0.0      453.      123.      738.      0.07         0   2744.80
      6.15       0.0      1.59      5.61      1.99      0.00   2748.30   2746.80
  0.003818     0.045     0.100     0.045     0.100      0.04     -0.00       0.0
             2742.00        1.        1.        1.      213.      306.    518.00        60.

*SECNO .610

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3280 CROSS SECTION      0.61 EXTENDED      3.69 FEET

      0.61     2875.      725.      685.     1465.      0.15         0      468.
   2748.19       0.0      462.      125.      750.     -0.01         0   2744.80
      6.19       0.0      1.57      5.50      1.95      0.04   2748.34   2746.80
  0.003629     0.045     0.100     0.045     0.100      0.00       0.0       0.0
             2742.00       10.       10.       10.      213.      306.    518.00        60.

*SECNO .740

3265 DIVIDED FLOW

    BROWNING BR..NCH               500 YEAR FLOOD       08/01/81
    MILE        Q         QLOB      QCH       QROB      HV        ITRIAL    TOPWID
    ELEV        CRIWS     ALOB      ACH       AROB      DHV       IDC       BANK ELEV
    DEPTH       WSELK     VLOB      VCH       VROB      HL        EG     LEFT/RIGHT
    SLOPE       WTN       XNL       XNCH      XNR       OLOSS     CORAR     SSTA
                ELMIN     XLOBL     XLCH      XLOBR     WSDL      WSDR      ENDST        VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
      0.74     2865.      255.     1705.      904.      0.64        20      798.
   2758.97   2758.97      227.      208.      471.      0.49        12   2756.50
      7.67       0.0      1.12      8.21      1.92      3.56   2759.62   2756.50
  0.013242     0.047     0.120     0.060     0.110      0.24     -0.00     91.86
             2751.30      570.      570.      570.      432.      396.    919.86        75.

*SECNO .740

*** GR CARDS REPEATED

3265 DIVIDED FLOW
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0.74	2865.	583.	1225.	1057.	0.19	2	959.	
2759.75	0.0	587.	237.	774.	-0.45	0	2756.50	
8.45	0.0	0.99	5.17	1.37	0.28	2759.94	2756.50	
0.004407	0.047	0.120	0.060	0.110	0.05	-0.00	4.26	
	2751.30	40.	40.	40.	519.	469.	992.92	76.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	15.00	0.01	130.00	2.10

ELCHU	ELCHD
2751.50	2751.50

*SECNO .740

*** GR CARDS REPEATED

PRESS FLOW BECAUSE EGLWC OF 2759.94 EXCEEDS 1.5 DEPTH
6870 D.S. ENERGY OF 2759.94 HIGHER THAN COMPUTED ENERGY OF 2759.86

3265 DIVIDED FLOW

BROWNING BRANCH 500 YEAR FLOOD 08/01/81

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

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2771.82	2759.94	0.00	2597.	276.	130.	131.	2756.60

ELTRD
2756.50

0.74	2865.	580.	1230.	1056.	0.19	2	957.	
2759.75	0.0	583.	237.	770.	0.00	0	2756.50	
8.45	0.0	1.00	5.20	1.37	0.0	2759.94	2756.50	
0.004464	0.047	0.120	0.060	0.110	0.0	-0.00	5.33	
	2751.30	30.	30.	30.	518.	469.	992.03	77.

*SECNO .740

*** GR CARDS REPEATED

3265 DIVIDED FLOW

0.74	2865.	566.	1276.	1022.	0.21	1	964.	
2759.78	0.0	600.	238.	785.	0.02	0	2756.50	
8.48	0.0	0.94	5.36	1.30	0.04	2759.99	2756.50	
0.003277	0.047	0.110	0.050	0.100	0.01	-0.00	1.37	
	2751.30	10.	10.	10.	522.	472.	995.33	78.

*SECNO .800

3265 DIVIDED FLOW

3280 CROSS SECTION 0.80 EXTENDED 1.79 FEET

0.80	2860.	786.	1084.	990.	0.44	2	415.	
2761.09	0.0	384.	132.	449.	0.23	0	2758.20	
6.29	0.0	2.05	8.22	2.21	1.42	2761.53	2758.60	
0.007452	0.047	0.100	0.045	0.100	0.12	-0.00	25.00	
	2754.80	300.	300.	300.	238.	268.	530.00	87.

*SECNO .800

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3280 CROSS SECTION 0.80 EXTENDED 2.19 FEET

0.80	2860.	851.	981.	1029.	0.29	2	415.	
2761.49	0.0	463.	142.	528.	-0.15	0	2758.20	
6.69	0.0	1.84	6.91	1.95	0.24	2761.78	2758.60	
0.004765	0.047	0.100	0.045	0.100	0.02	-0.00	25.00	
	2754.80	40.	40.	40.	238.	268.	530.00	88.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	11.00	0.01	55.00	0.50

ELCHU	ELCHD
2754.80	2754.80

*SECNO .800

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3280 CROSS SECTION 0.80 EXTENDED 2.26 FEET

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2828.67	2761.78	0.00	2657.	203.	55.	55.	2759.00

ELTRD
2759.00

0.80	2860.	840.	966.	1034.	0.27	2	415.
2761.55	0.0	476.	144.	541.	-0.02	0	2758.20
6.75	0.0	1.80	6.72	1.91	0.05	2761.83	2758.60
0.004442	0.047	0.100	0.045	0.100	0.0	-0.00	25.00

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              2754.80      30.       30.       30.      238.      268.    530.00        88.

 *SECNO .800

 3265 DIVIDED FLOW

 3280 CROSS SECTION      0.80 EXTENDED       1.38 FEET

     BROWNING BRANCH                500 YEAR FLOOD         08/01/81
    MILE      Q          QLOB      QCH       QROB      HV        ITRIAL    TOPWID
    ELEV      CRIWS      ALOB      ACH       AROB      DHV       IDC       BANK ELEV
    DEPTH     WSELK      VLOB      VCH       VROB      HL        EG      LEFT/RIGHT
    SLOPE     WTN        XNL       XNCH      XNR       OLOSS     CORAR     SSTA
              ELMIN      XLOBL     XLCH      XLOBR     WSDL      WSDR      ENDST        VOL

 7185 MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED
      0.80      2860.      679.     1141.     1040.      0.71         3      445.
   2761.68   2761.68      304.      111.      425.      0.44         9   2759.20
      5.88       0.0      2.23     10.31      2.45      0.20   2762.39   2756.50
  0.011714     0.047     0.100     0.045     0.100      0.22       0.0     25.00
             2755.80       30.       30.       30.      236.      269.    530.00        89.

 *SECNO .980
     BROWNING BRANCH                500 YEAR FLOOD         08/01/81
    MILE      Q          QLOB      QCH       QROB      HV        ITRIAL    TOPWID
    ELEV      CRIWS      ALOB      ACH       AROB      DHV       IDC       BANK ELEV
    DEPTH     WSELK      VLOB      VCH       VROB      HL        EG      LEFT/RIGHT
    SLOPE     WTN        XNL       XNCH      XNR       OLOSS     CORAR     SSTA
              ELMIN      XLOBL     XLCH      XLOBR     WSDL      WSDR      ENDST        VOL

 7185 MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED
      0.98      2850.      753.     1127.      970.      0.57        10      595.
   2775.17   2775.17      385.      123.      354.     -0.14        12   2773.40
      6.67       0.0      1.96      9.17      2.74      9.39   2775.74   2773.50
  0.009354     0.046     0.100     0.040     0.060      0.01     -0.00       0.0
             2768.50      900.      900.      900.      260.      335.    594.71       107.

 *SECNO .980

 *** GR CARDS REPEATED
      0.98      2850.      793.      862.     1195.      0.22         3      627.
   2775.77       0.0      534.      140.      558.     -0.35         0   2773.40
      7.27       0.0      1.49      6.16      2.14      0.22   2775.99   2773.50
  0.003555     0.046     0.100     0.040     0.060      0.04     -0.00       0.0
             2768.50       40.       40.       40.      260.      367.    627.19       108.

 *SECNO .980

 3370 NORMAL BRIDGE,NRD= 11 MIN ELTRD= 2774.20 MAX ELLC= 2774.40

      0.98      2850.     1124.      185.     1541.      0.10         2      634.
   2775.91       0.0      546.       56.      551.     -0.11         0   2774.80
      7.41       0.0      2.06      3.32      2.80      0.00   2776.01   2774.70
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0.006644	0.046	0.100	0.040	0.060	0.01	-43.76	0.0	
	2768.50	1.	1.	1.	262.	373.	634.30	108.

*SECNO .980

*** GR CARDS REPEATED

3370 NORMAL BRIDGE,NRD= 11 MIN ELTRD= 2774.20 MAX ELLC= 2774.40

0.98	2850.	1099.	172.	1579.	0.08	2	644.	
2776.10	0.0	594.	59.	420.	-0.02	0	2774.80	
7.60	0.0	1.85	2.93	2.55	0.17	2776.18	2774.70	
0.004855	0.046	0.100	0.040	0.060	0.00	-43.76	0.0	
	2768.50	30.	30.	30.	262.	383.	644.37	108.

*SECNO .980

BROWNING BRANCH			500 YEAR FLOOD		08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
0.98	2850.	352.	923.	1576.	0.25	2	644.	
2776.09	0.0	322.	147.	674.	0.16	0	2773.40	
7.59	0.0	1.09	6.30	2.34	0.08	2776.34	2773.50	
0.003494	0.046	0.100	0.040	0.060	0.08	-0.00	0.0	
	2768.50	20.	20.	20.	260.	384.	644.41	109.

*SECNO .980

BROWNING BRANCH			500 YEAR FLOOD		08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

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

0.98	2850.	695.	1108.	1047.	0.57	20	598.	
2776.17	2776.17	353.	121.	358.	0.32	17	2773.20	
4.97	0.0	1.97	9.17	2.92	0.11	2776.74	2774.90	
0.010239	0.046	0.100	0.040	0.060	0.16	-0.00	0.0	
	2771.20	20.	20.	20.	266.	332.	597.56	109.

*SECNO 1.190

3265 DIVIDED FLOW

3280 CROSS SECTION 1.19 EXTENDED 0.34 FEET

BROWNING BRANCH			500 YEAR FLOOD		08/01/81		
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV

DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
7185 MINIMUM SPECIFIC ENERGY								
3720 CRITICAL DEPTH ASSUMED								
1.19	2000.	1039.	841.	120.	0.47	13	631.	
2792.34	2792.34	504.	103.	93.	-0.10	12	2791.70	
6.34	0.0	2.06	8.18	1.30	11.22	2792.81	2791.60	
0.010145	0.046	0.085	0.045	0.085	0.01	-0.00	0.0	
	2786.00	1100.	1100.	1100.	521.	261.	782.09	129.

*SECNO 1.190

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3280 CROSS SECTION 1.19 EXTENDED 0.93 FEET

1.19	2000.	1184.	595.	221.	0.15	2	680.	
2792.92	0.0	779.	115.	199.	-0.33	0	2791.70	
6.92	0.0	1.52	5.19	1.11	0.22	2793.07	2791.60	
0.003536	0.046	0.085	0.045	0.085	0.03	-0.00	0.0	
	2786.00	40.	40.	40.	521.	289.	810.35	130.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	6.00	0.01	27.00	0.0

ELCHU	ELCHD
2787.30	2787.30

*SECNO 1.190
6870 D.S. ENERGY OF 2793.07 HIGHER THAN COMPUTED ENERGY OF 2793.06

3265 DIVIDED FLOW

3280 CROSS SECTION 1.19 EXTENDED 0.96 FEET

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2929.24	2793.07	0.00	1937.	64.	27.	27.	2791.80

ELTRD
2791.80

1.19	2000.	1099.	541.	361.	0.11	2	771.	
2792.96	0.0	794.	115.	331.	-0.04	0	2791.70	
6.96	0.0	1.38	4.69	1.09	0.0	2793.07	2791.60	
0.002868	0.045	0.085	0.045	0.085	0.0	-0.00	0.0	
	2786.00	30.	30.	30.	521.	290.	811.12	130.

*SECNO 1.190

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3280 CROSS SECTION 1.19 EXTENDED 0.99 FEET

BROWNING BRANCH			500 YEAR FLOOD		08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
1.19	2000.	1102.	532.	366.	0.11	0	772.	
2792.99	0.0	808.	116.	340.	-0.01	0	2791.70	
6.99	0.0	1.36	4.59	1.08	0.03	2793.10	2791.60	
0.002727	0.045	0.085	0.045	0.085	0.00	0.0	0.0	
	2786.00	10.	10.	10.	521.	291.	811.87	131.

*SECNO 1.300

3280 CROSS SECTION 1.30 EXTENDED 0.91 FEET

BROWNING BRANCH			500 YEAR FLOOD		08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
1.30	2000.	500.	703.	797.	0.59	20	459.	
2801.41	2801.41	285.	71.	288.	0.49	13	2800.20	
5.11	0.0	1.76	9.89	2.76	2.45	2802.00	2799.00	
0.012715	0.045	0.100	0.040	0.100	0.24	0.0	21.00	
	2796.30	480.	480.	480.	288.	171.	479.60	141.

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

*SECNO 1.300

*** GR CARDS REPEATED

3280 CROSS SECTION 1.30 EXTENDED 1.62 FEET

1.30	2000.	683.	538.	780.	0.20	2	537.	
2802.11	0.0	482.	84.	431.	-0.39	0	2800.20	
5.81	0.0	1.41	6.41	1.81	0.27	2802.32	2799.00	
0.004290	0.045	0.100	0.040	0.100	0.04	-0.00	21.00	
	2796.30	40.	40.	40.	288.	249.	557.67	142.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	5.00	0.01	38.00	1.90

ELCHU	ELCHD
2796.30	2796.30

*SECNO 1.300

*** GR CARDS REPEATED
3280 CROSS SECTION 1.30 EXTENDED 2.51 FEET

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC	
2870.94	2802.32	0.00	1774.	237.	38.	39.	2799.70	
ELTRD								
2801.00								
1.30	2000.	789.	420.	791.	0.07	2	554.	
2803.01	0.0	731.	100.	654.	-0.13	0	2800.20	
6.71	0.0	1.08	4.21	1.21	0.77	2803.08	2799.00	
0.001462	0.045	0.100	0.040	0.100	0.0	-0.00	21.00	
	2796.30	30.	30.	30.	288.	266.	574.70	143.

*SECNO 1.300

*** GR CARDS REPEATED
3280 CROSS SECTION 1.30 EXTENDED 2.53 FEET

1.30	2000.	790.	418.	792.	0.07	1	554.	
2803.02	0.0	737.	100.	660.	-0.00	0	2800.20	
6.72	0.0	1.07	4.17	1.20	0.01	2803.10	2799.00	
0.001428	0.045	0.100	0.040	0.100	0.00	-0.00	21.00	
	2796.30	10.	10.	10.	288.	266.	574.95	143.

THIS RUN EXECUTED 08/01/81 8:20:06

****
HEC2 RELEASE DATED NOV 76 UPDATED JULY1979
ERROR CORR - 01,02,03
MODIFICATION - 50,51,52,53,54
****

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

IH0219I FIOCS - MISSING DD CARD OR DCB ERROR FOR ASCII TAPE FOR FT51F001

TRACEBACK	ROUTINE	CALLED FROM ISN	REG. 14	REG. 15	REG. 0	REG. 1
	IBCOM		000E2F88	000F9AFC	00000000	000D6E1C
	SUMPO		420C607C	000E2050	0000000C	00000000
	MAIN		0002C698	000C5B10	0089D2D0	000C4FF8

ENTRY POINT= 000C5B10

STANDARD FIXUP TAKEN , EXECUTION CONTINUING

****
BROWNING BRANCH

SUMMARY PRINTOUT TABLE 150

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10K*S	VCH	AREA	.01K
	0.050	0.	0.0	0.0	2698.5	900.0	2704.59	0.0	2705.06	50.09	6.37	268.38	127.16
	0.050	0.	0.0	0.0	2698.5	1600.0	2705.62	0.0	2706.09	50.46	7.22	507.94	225.24
	0.050	0.	0.0	0.0	2698.5	1900.0	2705.94	0.0	2706.40	50.32	7.45	605.49	267.85
	0.050	0.	0.0	0.0	2698.5	2900.0	2706.63	0.0	2707.06	49.90	7.94	944.36	410.52
*	0.140	450.	0.0	0.0	2705.5	900.0	2710.35	2710.35	2710.85	137.35	8.21	254.22	76.79
*	0.140	450.	0.0	0.0	2705.5	1600.0	2710.84	2710.84	2711.42	161.71	9.67	379.21	125.82
*	0.140	450.	0.0	0.0	2705.5	1900.0	2710.98	2710.98	2711.62	180.15	10.42	414.37	141.56
*	0.140	450.	0.0	0.0	2705.5	2900.0	2711.49	2711.49	2712.14	179.27	11.18	591.30	216.59
*	0.180	230.	0.0	0.0	2708.6	900.0	2713.43	2713.43	2713.85	93.21	6.84	307.82	93.22
	0.180	230.	0.0	0.0	2708.6	1600.0	2713.94	0.0	2714.38	101.13	7.80	474.68	159.10
	0.180	230.	0.0	0.0	2708.6	1900.0	2714.18	0.0	2714.58	92.63	7.77	555.67	197.42
	0.180	230.	0.0	0.0	2708.6	2900.0	2714.72	0.0	2715.17	96.81	8.61	739.64	294.74
*	0.210	100.	0.0	0.0	2710.5	900.0	2716.32	2716.32	2717.41	118.30	8.95	151.72	82.75
*	0.210	100.	0.0	0.0	2710.5	1600.0	2717.60	2717.60	2718.36	80.36	8.74	414.61	178.48
*	0.210	100.	0.0	0.0	2710.5	1900.0	2717.84	2717.84	2718.60	82.73	9.12	495.53	208.90
*	0.210	100.	0.0	0.0	2710.5	2900.0	2718.47	2718.47	2719.21	85.34	9.91	763.58	313.92
	0.210	40.	0.0	0.0	2710.5	900.0	2717.39	0.0	2717.72	33.49	5.51	352.31	155.51
	0.210	40.	0.0	0.0	2710.5	1600.0	2718.32	0.0	2718.60	31.48	5.92	693.04	285.15
	0.210	40.	0.0	0.0	2710.5	1900.0	2718.57	0.0	2718.85	32.60	6.18	809.06	332.75
	0.210	40.	0.0	0.0	2710.5	2900.0	2719.17	0.0	2719.47	36.53	6.93	1117.95	479.83

H07

0.210	1.	2717.0	2716.1	2710.5	900.0	2716.96	2715.18	2718.17	358.46	8.95	115.23	47.54
0.210	1.	2717.0	2716.1	2710.5	1600.0	2718.34	0.0	2718.61	206.06	5.87	485.95	111.46
0.210	1.	2717.0	2716.1	2710.5	1900.0	2718.69	0.0	2718.86	135.23	4.97	660.43	163.39
0.210	1.	2717.0	2716.1	2710.5	2900.0	2719.33	0.0	2719.49	94.97	4.48	996.47	297.57
0.210	20.	2717.0	2716.1	2710.5	900.0	2718.43	0.0	2718.50	52.33	3.00	531.86	124.42
0.210	20.	2717.0	2716.1	2710.5	1600.0	2718.76	0.0	2718.87	82.17	3.91	698.53	176.51
0.210	20.	2717.0	2716.1	2710.5	1900.0	2718.96	0.0	2719.07	78.07	3.90	801.73	215.04
0.210	20.	2717.0	2716.1	2710.5	2900.0	2719.53	0.0	2719.65	70.66	3.94	1097.33	344.99
0.210	1.	0.0	0.0	2710.5	900.0	2718.43	0.0	2718.50	8.65	3.14	741.53	306.05
0.210	1.	0.0	0.0	2710.5	1600.0	2718.74	0.0	2718.90	18.53	4.74	899.66	371.73
0.210	1.	0.0	0.0	2710.5	1900.0	2718.94	0.0	2719.11	20.48	5.08	1000.74	419.84
0.210	1.	0.0	0.0	2710.5	2900.0	2719.49	0.0	2719.70	25.37	5.95	1290.43	575.72

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10K*S	VCH	AREA	.01K
	0.210	10.	0.0	0.0	2710.5	900.0	2718.44	0.0	2718.51	8.55	3.13	748.88	307.86
	0.210	10.	0.0	0.0	2710.5	1600.0	2718.76	0.0	2718.92	17.97	4.68	912.10	377.47
	0.210	10.	0.0	0.0	2710.5	1900.0	2718.96	0.0	2719.13	19.84	5.01	1014.42	426.62
	0.210	10.	0.0	0.0	2710.5	2900.0	2719.53	0.0	2719.72	24.27	5.84	1312.52	588.61
*	0.250	80.	0.0	0.0	2714.0	900.0	2719.86	2719.86	2721.03	150.90	9.15	155.93	73.27
*	0.250	80.	0.0	0.0	2714.0	1600.0	2721.21	2721.21	2722.11	107.27	9.21	452.39	154.48
*	0.250	80.	0.0	0.0	2714.0	1900.0	2721.50	2721.50	2722.38	108.02	9.54	556.25	182.81
*	0.250	80.	0.0	0.0	2714.0	2900.0	2722.21	2722.21	2723.05	109.83	10.37	884.72	276.71
	0.250	40.	0.0	0.0	2714.0	900.0	2721.06	0.0	2721.40	41.01	5.59	401.15	140.53
	0.250	40.	0.0	0.0	2714.0	1600.0	2722.11	0.0	2722.40	37.71	6.01	830.55	260.55
	0.250	40.	0.0	0.0	2714.0	1900.0	2722.38	0.0	2722.68	38.91	6.27	970.86	304.58
	0.250	40.	0.0	0.0	2714.0	2900.0	2723.05	0.0	2723.37	44.89	7.16	1319.24	432.84
	0.250	1.	2719.0	2721.3	2714.0	900.0	2721.39	0.0	2721.43	39.03	1.83	594.15	144.06
	0.250	1.	2719.0	2721.3	2714.0	1600.0	2722.35	0.0	2722.43	49.73	2.42	790.80	226.88
	0.250	1.	2719.0	2721.3	2714.0	1900.0	2722.61	0.0	2722.70	56.07	2.67	866.18	253.74
	0.250	1.	2719.0	2721.3	2714.0	2900.0	2723.24	0.0	2723.40	77.70	3.44	1042.31	329.00
	0.250	30.	2719.0	2721.3	2714.0	900.0	2721.51	0.0	2721.55	35.20	1.76	616.04	151.69
	0.250	30.	2719.0	2721.3	2714.0	1600.0	2722.50	0.0	2722.57	44.03	2.33	835.63	241.11
	0.250	30.	2719.0	2721.3	2714.0	1900.0	2722.78	0.0	2722.86	48.75	2.55	910.12	272.13
	0.250	30.	2719.0	2721.3	2714.0	2900.0	2723.48	0.0	2723.61	65.08	3.24	1114.22	359.49
	0.250	1.	0.0	0.0	2714.0	900.0	2721.53	0.0	2721.55	1.42	1.15	1187.28	756.32
	0.250	1.	0.0	0.0	2714.0	1600.0	2722.54	0.0	2722.57	2.38	1.66	1540.61	1037.08
	0.250	1.	0.0	0.0	2714.0	1900.0	2722.82	0.0	2722.87	2.86	1.87	1639.18	1123.10
	0.250	1.	0.0	0.0	2714.0	2900.0	2723.54	0.0	2723.62	4.56	2.51	1891.21	1357.35
	0.260	25.	0.0	0.0	2715.5	900.0	2721.52	0.0	2721.57	8.61	2.46	714.62	306.72
	0.260	25.	0.0	0.0	2715.5	1600.0	2722.53	0.0	2722.61	11.41	3.21	971.26	473.61
	0.260	25.	0.0	0.0	2715.5	1900.0	2722.81	0.0	2722.91	13.07	3.55	1042.55	525.52
	0.260	25.	0.0	0.0	2715.5	2900.0	2723.52	0.0	2723.68	18.86	4.59	1223.94	667.75
*	0.300	200.	0.0	0.0	2718.8	900.0	2722.59	2722.59	2723.13	203.32	7.49	210.38	63.12
*	0.300	200.	0.0	0.0	2718.8	1600.0	2723.09	2723.09	2723.80	257.85	9.04	308.23	99.64
*	0.300	200.	0.0	0.0	2718.8	1900.0	2723.27	2723.27	2724.03	271.04	9.52	346.33	115.41
	0.300	200.	0.0	0.0	2718.8	2900.0	2724.15	0.0	2724.79	186.00	9.03	543.88	212.64
	0.340	210.	0.0	0.0	2721.2	900.0	2725.42	0.0	2725.68	79.20	5.57	330.86	101.13
	0.340	210.	0.0	0.0	2721.2	1600.0	2726.15	0.0	2726.39	70.24	5.82	556.57	190.90
	0.340	210.	0.0	0.0	2721.2	1900.0	2726.39	0.0	2726.64	68.56	5.96	640.14	229.47
	0.340	210.	0.0	0.0	2721.2	2895.0	2726.93	0.0	2727.23	77.95	6.83	832.63	327.89
*	0.430	540.	0.0	0.0	2730.1	895.0	2734.61	2734.61	2735.26	83.61	7.61	290.50	97.88
*	0.430	540.	0.0	0.0	2730.1	1595.0	2735.25	2735.25	2736.02	101.89	9.23	477.09	158.01
*	0.430	540.	0.0	0.0	2730.1	1895.0	2735.46	2735.46	2736.27	108.26	9.79	547.92	182.12
*	0.430	540.	0.0	0.0	2730.1	2890.0	2736.02	2736.02	2736.94	124.10	11.24	764.79	259.42
	0.460	180.	0.0	0.0	2731.1	895.0	2735.75	0.0	2735.80	13.06	3.07	862.67	247.66
	0.460	180.	0.0	0.0	2731.1	1595.0	2736.55	0.0	2736.60	13.15	3.45	1317.53	439.85
	0.460	180.	0.0	0.0	2731.1	1890.0	2736.81	0.0	2736.87	13.32	3.59	1484.51	517.85
	0.460	180.	0.0	0.0	2731.1	2890.0	2737.53	0.0	2737.59	14.18	4.03	1969.02	767.53

J07

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10K*S	VCH	AREA	.01K
*	0.480	40.	0.0	0.0	2733.2	895.0	2737.48	2737.48	2737.78	72.30	6.37	461.10	105.26
*	0.480	40.	0.0	0.0	2733.2	1595.0	2737.77	2737.77	2738.12	99.44	7.84	664.20	159.95
*	0.480	40.	0.0	0.0	2733.2	1890.0	2737.82	2737.82	2738.25	123.14	8.79	697.52	170.32
*	0.480	40.	0.0	0.0	2733.2	2885.0	2738.12	2738.12	2738.57	141.32	9.84	904.82	242.68
	0.480	40.	0.0	0.0	2733.2	895.0	2737.87	0.0	2737.96	24.04	3.92	735.39	182.54
	0.480	40.	0.0	0.0	2733.2	1595.0	2738.26	0.0	2738.36	32.24	4.80	1001.74	280.91
	0.480	40.	0.0	0.0	2733.2	1890.0	2738.41	0.0	2738.51	33.83	5.02	1105.93	324.95
	0.480	40.	0.0	0.0	2733.2	2885.0	2738.75	0.0	2738.89	43.34	5.94	1347.61	438.25
	0.480	1.	2736.3	2737.9	2733.2	895.0	2737.86	0.0	2737.97	42.03	4.62	596.18	138.04
	0.480	1.	2736.3	2737.9	2733.2	1595.0	2738.30	0.0	2738.37	55.44	3.74	877.99	214.21
	0.480	1.	2736.3	2737.9	2733.2	1890.0	2738.46	0.0	2738.52	57.01	3.05	989.70	250.31
	0.480	1.	2736.3	2737.9	2733.2	2885.0	2738.81	0.0	2738.90	65.72	3.48	1236.71	355.89
	0.480	30.	2736.3	2737.9	2733.2	895.0	2738.05	0.0	2738.09	31.20	2.81	712.40	160.23
	0.480	30.	2736.3	2737.9	2733.2	1595.0	2738.46	0.0	2738.51	40.06	2.56	993.98	252.00
	0.480	30.	2736.3	2737.9	2733.2	1890.0	2738.62	0.0	2738.67	40.92	2.66	1100.06	295.47
	0.480	30.	2736.3	2737.9	2733.2	2885.0	2739.00	0.0	2739.07	47.73	3.06	1366.28	417.59
	0.480	1.	0.0	0.0	2733.2	895.0	2738.05	0.0	2738.10	15.70	3.25	859.87	225.88
	0.480	1.	0.0	0.0	2733.2	1595.0	2738.46	0.0	2738.52	21.69	4.05	1145.62	342.51
	0.480	1.	0.0	0.0	2733.2	1890.0	2738.61	0.0	2738.68	23.30	4.28	1251.92	391.58
	0.480	1.	0.0	0.0	2733.2	2885.0	2738.99	0.0	2739.09	29.95	5.09	1518.21	527.13
	0.480	10.	0.0	0.0	2733.2	895.0	2738.06	0.0	2738.11	15.16	3.20	870.64	229.85
	0.480	10.	0.0	0.0	2733.2	1595.0	2738.48	0.0	2738.55	20.79	3.98	1161.85	349.81
	0.480	10.	0.0	0.0	2733.2	1890.0	2738.63	0.0	2738.70	22.35	4.21	1269.00	399.74
	0.480	10.	0.0	0.0	2733.2	2885.0	2739.02	0.0	2739.12	28.67	5.00	1539.71	538.83
*	0.510	130.	0.0	0.0	2736.0	895.0	2740.49	2740.49	2740.89	104.88	7.15	282.29	87.39
*	0.510	130.	0.0	0.0	2736.0	1590.0	2740.86	2740.86	2741.29	142.77	8.91	386.91	133.07
*	0.510	130.	0.0	0.0	2736.0	1890.0	2740.97	2740.97	2741.58	161.48	9.65	418.87	148.73
*	0.510	130.	0.0	0.0	2736.0	2885.0	2741.40	2741.40	2742.11	175.35	10.77	545.55	217.87
	0.510	40.	0.0	0.0	2736.0	895.0	2741.01	0.0	2741.14	33.32	4.42	431.35	155.05
	0.510	40.	0.0	0.0	2736.0	1590.0	2741.53	0.0	2741.71	42.86	5.44	587.18	242.87
	0.510	40.	0.0	0.0	2736.0	1890.0	2741.73	0.0	2741.93	45.47	5.76	646.43	280.27
	0.510	40.	0.0	0.0	2736.0	2885.0	2742.24	0.0	2742.52	54.87	6.78	802.50	389.49
	0.510	1.	2741.8	2742.0	2737.0	895.0	2740.80	0.0	2741.35	196.15	6.71	178.31	63.90
*	0.510	1.	2741.8	2742.0	2737.0	1590.0	2741.41	2741.41	2742.04	289.59	7.46	266.74	93.43
*	0.510	1.	2741.8	2742.0	2737.0	1890.0	2741.52	2741.52	2742.28	362.55	8.15	283.57	99.26
*	0.510	1.	2741.8	2742.0	2737.0	2885.0	2742.00	2742.00	2743.01	493.66	8.59	359.24	129.85
	0.540	180.	2741.8	2742.0	2737.0	895.0	2742.18	0.0	2742.26	37.87	2.38	388.04	145.44
	0.540	180.	2741.8	2742.0	2737.0	1590.0	2742.91	0.0	2743.06	49.59	2.72	521.58	225.78
	0.540	180.	2741.8	2742.0	2737.0	1890.0	2743.19	0.0	2743.36	51.70	2.78	577.73	262.85
	0.540	180.	2741.8	2742.0	2737.0	2885.0	2743.91	0.0	2744.16	60.34	3.00	729.99	371.39
	0.540	1.	0.0	0.0	2737.0	895.0	2742.11	0.0	2742.33	52.43	5.50	369.10	123.61
	0.540	1.	0.0	0.0	2737.0	1590.0	2742.90	0.0	2743.08	39.38	5.39	620.31	253.37
	0.540	1.	0.0	0.0	2737.0	1890.0	2743.19	0.0	2743.37	36.19	5.39	716.40	314.17
	0.540	1.	0.0	0.0	2737.0	2885.0	2743.97	0.0	2744.17	33.91	5.74	963.45	495.42

K07

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10K*S	VCH	AREA	.01K
	0.540	30.	0.0	0.0	2737.0	895.0	2742.32	0.0	2742.47	33.81	4.57	436.44	153.93
	0.540	30.	0.0	0.0	2737.0	1590.0	2743.04	0.0	2743.19	32.32	4.98	662.98	279.66
	0.540	30.	0.0	0.0	2737.0	1890.0	2743.32	0.0	2743.47	30.79	5.05	755.63	340.61
	0.540	30.	0.0	0.0	2737.0	2885.0	2744.08	0.0	2744.26	30.17	5.49	1000.14	525.21
*	0.610	300.	0.0	0.0	2740.3	890.0	2745.58	2745.58	2746.15	104.25	7.30	270.99	87.17
*	0.610	300.	0.0	0.0	2740.3	1590.0	2746.27	2746.27	2746.85	110.56	8.24	490.90	151.22
*	0.610	300.	0.0	0.0	2740.3	1885.0	2746.48	2746.48	2747.06	113.65	8.57	574.82	176.82
*	0.610	300.	0.0	0.0	2740.3	2875.0	2746.79	2746.79	2747.62	167.27	10.77	709.09	222.30
	0.610	40.	0.0	0.0	2742.0	890.0	2746.31	0.0	2746.47	47.99	4.71	479.29	128.47
	0.610	40.	0.0	0.0	2742.0	1590.0	2747.00	0.0	2747.17	49.17	5.33	777.98	226.75
	0.610	40.	0.0	0.0	2742.0	1885.0	2747.21	0.0	2747.39	50.54	5.61	878.84	265.15
	0.610	40.	0.0	0.0	2742.0	2875.0	2747.83	0.0	2748.04	53.76	6.37	1167.72	392.10
	0.610	1.	2746.5	2746.0	2742.0	890.0	2746.41	0.0	2746.48	76.74	3.36	467.85	101.60
	0.610	1.	2746.5	2746.0	2742.0	1590.0	2747.10	0.0	2747.18	76.25	3.33	749.22	182.09
	0.610	1.	2746.5	2746.0	2742.0	1885.0	2747.32	0.0	2747.40	78.02	3.35	844.77	213.41
	0.610	1.	2746.5	2746.0	2742.0	2875.0	2747.95	0.0	2748.05	79.72	2.87	1135.59	322.00
	0.610	30.	2746.5	2746.0	2742.0	890.0	2746.62	0.0	2746.67	52.57	2.78	550.73	122.75
	0.610	30.	2746.5	2746.0	2742.0	1590.0	2747.32	0.0	2747.38	55.38	2.83	845.49	213.65
	0.610	30.	2746.5	2746.0	2742.0	1885.0	2747.54	0.0	2747.61	57.60	2.78	944.45	248.36
	0.610	30.	2746.5	2746.0	2742.0	2875.0	2748.18	0.0	2748.26	60.69	2.61	1241.82	369.06
	0.610	1.	0.0	0.0	2742.0	890.0	2746.60	0.0	2746.70	28.86	3.83	601.20	165.68
	0.610	1.	0.0	0.0	2742.0	1590.0	2747.30	0.0	2747.41	32.21	4.54	916.09	280.15
	0.610	1.	0.0	0.0	2742.0	1885.0	2747.51	0.0	2747.64	34.03	4.83	1017.58	323.12
	0.610	1.	0.0	0.0	2742.0	2875.0	2748.15	0.0	2748.30	38.18	5.61	1314.20	465.28
	0.610	10.	0.0	0.0	2742.0	890.0	2746.64	0.0	2746.73	27.01	3.73	618.18	171.26
	0.610	10.	0.0	0.0	2742.0	1590.0	2747.33	0.0	2747.44	30.36	4.44	936.51	288.55
	0.610	10.	0.0	0.0	2742.0	1885.0	2747.55	0.0	2747.67	32.13	4.72	1038.89	332.53
	0.610	10.	0.0	0.0	2742.0	2875.0	2748.19	0.0	2748.34	36.29	5.50	1337.10	477.23
*	0.740	570.	0.0	0.0	2751.3	890.0	2755.85	2755.85	2757.26	449.69	9.53	93.40	41.97
*	0.740	570.	0.0	0.0	2751.3	1585.0	2757.92	2757.92	2758.77	166.73	8.02	343.70	122.75
*	0.740	570.	0.0	0.0	2751.3	1880.0	2758.23	2758.23	2759.04	157.09	8.14	449.66	150.00
*	0.740	570.	0.0	0.0	2751.3	2865.0	2758.97	2758.97	2759.62	132.42	8.21	905.30	248.97
	0.740	40.	0.0	0.0	2751.3	890.0	2757.60	0.0	2757.98	76.51	5.18	258.84	101.75
	0.740	40.	0.0	0.0	2751.3	1585.0	2758.93	0.0	2759.14	43.46	4.68	867.51	240.42
	0.740	40.	0.0	0.0	2751.3	1880.0	2759.20	0.0	2759.39	40.97	4.69	1092.03	293.73
	0.740	40.	0.0	0.0	2751.3	2865.0	2759.75	0.0	2759.94	44.07	5.17	1598.04	431.57
	0.740	30.	2756.5	2756.6	2751.3	890.0	2757.60	0.0	2757.98	76.15	5.17	259.67	101.99
	0.740	30.	2756.5	2756.6	2751.3	1585.0	2758.93	0.0	2759.14	43.18	4.66	871.02	241.21
	0.740	30.	2756.5	2756.6	2751.3	1880.0	2759.20	0.0	2759.39	40.78	4.68	1094.64	294.38
	0.740	30.	2756.5	2756.6	2751.3	2865.0	2759.75	0.0	2759.94	44.64	5.20	1588.60	428.79
	0.740	10.	0.0	0.0	2751.3	890.0	2757.68	0.0	2758.04	49.26	5.05	277.88	126.80
	0.740	10.	0.0	0.0	2751.3	1585.0	2758.96	0.0	2759.18	30.50	4.72	899.50	287.01
	0.740	10.	0.0	0.0	2751.3	1880.0	2759.23	0.0	2759.43	29.30	4.78	1122.96	347.30
	0.740	10.	0.0	0.0	2751.3	2865.0	2759.78	0.0	2759.99	32.77	5.36	1622.77	500.46

L07

L07

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10K*S	VCH	AREA	.01K
*	0.800	300.	0.0	0.0	2754.8	885.0	2759.51	2759.51	2760.02	80.68	6.75	319.30	98.53
	0.800	300.	0.0	0.0	2754.8	1580.0	2760.21	0.0	2760.65	74.90	7.31	602.48	182.56
	0.800	300.	0.0	0.0	2754.8	1875.0	2760.44	0.0	2760.88	74.39	7.53	697.60	217.39
	0.800	300.	0.0	0.0	2754.8	2860.0	2761.09	0.0	2761.53	74.52	8.22	964.54	331.30
	0.800	40.	0.0	0.0	2754.8	885.0	2760.05	0.0	2760.24	30.53	4.55	535.85	160.16
	0.800	40.	0.0	0.0	2754.8	1580.0	2760.66	0.0	2760.88	39.12	5.63	786.11	252.61
	0.800	40.	0.0	0.0	2754.8	1875.0	2760.87	0.0	2761.11	41.14	5.95	878.97	292.32
	0.800	40.	0.0	0.0	2754.8	2860.0	2761.49	0.0	2761.78	47.65	6.91	1132.89	414.32
	0.800	30.	2759.0	2759.0	2754.8	885.0	2760.53	0.0	2760.61	14.64	3.38	733.40	231.32
	0.800	30.	2759.0	2759.0	2754.8	1580.0	2760.92	0.0	2761.09	27.60	4.90	897.84	300.72
	0.800	30.	2759.0	2759.0	2754.8	1875.0	2761.06	0.0	2761.26	32.77	5.44	956.44	327.52
	0.800	30.	2759.0	2759.0	2754.8	2860.0	2761.55	0.0	2761.83	44.42	6.72	1161.29	429.12
*	0.800	30.	0.0	0.0	2755.8	885.0	2760.60	2760.60	2761.05	67.04	6.64	364.76	108.09
*	0.800	30.	0.0	0.0	2755.8	1580.0	2761.08	2761.08	2761.64	88.88	8.26	575.34	167.59
*	0.800	30.	0.0	0.0	2755.8	1875.0	2761.25	2761.25	2761.84	94.31	8.73	651.61	193.07
*	0.800	30.	0.0	0.0	2755.8	2860.0	2761.63	2761.68	2762.39	117.14	10.31	839.56	264.25
*	0.980	900.	0.0	0.0	2768.5	885.0	2774.26	2774.26	2774.68	58.71	6.22	358.80	115.51
*	0.980	900.	0.0	0.0	2768.5	1575.0	2774.70	2774.70	2775.16	71.15	7.41	588.90	186.72
*	0.980	900.	0.0	0.0	2768.5	1865.0	2774.83	2774.83	2775.32	76.75	7.87	662.47	212.88
*	0.980	900.	0.0	0.0	2768.5	2850.0	2775.17	2775.17	2775.74	93.54	9.17	861.37	294.67
	0.980	40.	0.0	0.0	2768.5	885.0	2774.69	0.0	2774.84	22.82	4.19	584.63	185.26
	0.980	40.	0.0	0.0	2768.5	1575.0	2775.19	0.0	2775.36	27.54	4.99	873.61	300.12
	0.980	40.	0.0	0.0	2768.5	1865.0	2775.35	0.0	2775.53	29.38	5.28	968.98	344.05
	0.980	40.	0.0	0.0	2768.5	2850.0	2775.77	0.0	2775.99	35.55	6.16	1231.75	477.98
	0.980	1.	2774.2	2774.4	2768.5	885.0	2774.74	0.0	2774.85	84.59	4.51	465.79	96.22
	0.980	1.	2774.2	2774.4	2768.5	1575.0	2775.29	0.0	2775.37	65.77	3.98	777.03	194.21
	0.980	1.	2774.2	2774.4	2768.5	1865.0	2775.45	0.0	2775.54	64.63	3.95	874.62	231.99
	0.980	1.	2774.2	2774.4	2768.5	2850.0	2775.91	0.0	2776.01	66.44	3.32	1152.61	349.64
	0.980	30.	2774.2	2774.4	2768.5	885.0	2774.98	0.0	2775.03	43.94	3.25	599.24	133.50
	0.980	30.	2774.2	2774.4	2768.5	1575.0	2775.47	0.0	2775.53	44.46	3.27	885.04	236.20
	0.980	30.	2774.2	2774.4	2768.5	1865.0	2775.64	0.0	2775.70	46.26	2.64	988.37	274.21
	0.980	30.	2774.2	2774.4	2768.5	2850.0	2776.09	0.0	2776.18	48.55	2.93	1272.69	409.01
	0.980	20.	0.0	0.0	2768.5	885.0	2774.98	0.0	2775.15	22.25	4.29	462.32	187.62
	0.980	20.	0.0	0.0	2768.5	1575.0	2775.47	0.0	2775.68	28.49	5.23	751.59	295.06
	0.980	20.	0.0	0.0	2768.5	1865.0	2775.64	0.0	2775.85	29.92	5.49	856.60	340.97
	0.980	20.	0.0	0.0	2768.5	2850.0	2776.09	0.0	2776.34	34.94	6.30	1143.16	482.17
*	0.980	20.	0.0	0.0	2771.2	885.0	2775.35	2775.35	2775.71	60.04	5.99	368.30	114.21
*	0.980	20.	0.0	0.0	2771.2	1575.0	2775.74	2775.74	2776.17	75.29	7.27	578.96	181.52
*	0.980	20.	0.0	0.0	2771.2	1865.0	2775.84	2775.84	2776.32	84.12	7.84	638.33	203.34
*	0.980	20.	0.0	0.0	2771.2	2850.0	2776.17	2776.17	2776.74	102.39	9.17	831.77	281.65
*	1.190	1100.	0.0	0.0	2786.0	600.0	2790.08	2790.08	2791.69	269.06	10.20	58.82	36.58
*	1.190	1100.	0.0	0.0	2786.0	1100.0	2791.90	2791.90	2792.30	76.05	6.67	443.12	126.13
*	1.190	1100.	0.0	0.0	2786.0	1300.0	2792.02	2792.02	2792.44	81.45	7.03	512.53	144.05
*	1.190	1100.	0.0	0.0	2786.0	2000.0	2792.34	2792.34	2792.81	101.45	8.18	700.06	198.57

M07

M07

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10K*S	VCH	AREA	.01K
	1.190	40.	0.0	0.0	2786.0	600.0	2791.94	0.0	2792.05	20.77	3.51	465.07	131.65
	1.190	40.	0.0	0.0	2786.0	1100.0	2792.38	0.0	2792.51	28.12	4.33	728.90	207.42
	1.190	40.	0.0	0.0	2786.0	1300.0	2792.52	0.0	2792.65	29.93	4.55	823.88	237.63
	1.190	40.	0.0	0.0	2786.0	2000.0	2792.92	0.0	2793.07	35.36	5.19	1092.31	336.34
	1.190	30.	2791.8	2791.8	2786.0	600.0	2792.18	0.0	2792.23	11.47	2.70	660.41	177.13
	1.190	30.	2791.8	2791.8	2786.0	1100.0	2792.43	0.0	2792.53	22.93	3.94	838.28	229.72
	1.190	30.	2791.8	2791.8	2786.0	1300.0	2792.56	0.0	2792.66	24.63	4.15	938.78	261.93
	1.190	30.	2791.8	2791.8	2786.0	2000.0	2792.96	0.0	2793.07	28.68	4.69	1240.58	373.44
	1.190	10.	0.0	0.0	2786.0	600.0	2792.19	0.0	2792.25	11.09	2.66	671.04	180.15
	1.190	10.	0.0	0.0	2786.0	1100.0	2792.46	0.0	2792.55	21.86	3.86	856.19	235.27
	1.190	10.	0.0	0.0	2786.0	1300.0	2792.59	0.0	2792.69	23.45	4.06	958.19	268.47
	1.190	10.	0.0	0.0	2786.0	2000.0	2792.99	0.0	2793.10	27.27	4.59	1264.19	382.99
*	1.300	480.	0.0	0.0	2796.3	600.0	2800.24	2800.24	2800.78	113.83	7.40	186.83	56.24
*	1.300	480.	0.0	0.0	2796.3	1100.0	2800.91	2800.91	2801.38	97.11	7.90	421.43	111.63
*	1.300	480.	0.0	0.0	2796.3	1300.0	2800.98	2800.98	2801.55	119.84	8.88	448.71	118.75
*	1.300	480.	0.0	0.0	2796.3	2000.0	2801.41	2801.41	2802.00	127.15	9.89	644.13	177.36
	1.300	40.	0.0	0.0	2796.3	600.0	2800.89	0.0	2801.03	30.10	4.38	412.58	109.35
	1.300	40.	0.0	0.0	2796.3	1100.0	2801.46	0.0	2801.63	34.80	5.22	671.18	186.46
	1.300	40.	0.0	0.0	2796.3	1300.0	2801.66	0.0	2801.82	35.26	5.43	763.72	218.92
	1.300	40.	0.0	0.0	2796.3	2000.0	2802.11	0.0	2802.32	42.90	6.41	997.27	305.34
*	1.300	30.	2801.0	2799.7	2796.3	600.0	2802.04	0.0	2802.06	4.33	2.01	953.65	288.49
	1.300	30.	2801.0	2799.7	2796.3	1100.0	2802.50	0.0	2802.54	7.91	2.90	1204.28	391.21
	1.300	30.	2801.0	2799.7	2796.3	1300.0	2802.63	0.0	2802.68	9.43	3.22	1276.09	423.33
	1.300	30.	2801.0	2799.7	2796.3	2000.0	2803.01	0.0	2803.08	14.62	4.21	1484.26	523.00
	1.300	10.	0.0	0.0	2796.3	600.0	2802.04	0.0	2802.06	4.26	2.00	959.43	290.69
	1.300	10.	0.0	0.0	2796.3	1100.0	2802.51	0.0	2802.54	7.76	2.88	1212.43	394.79
	1.300	10.	0.0	0.0	2796.3	1300.0	2802.64	0.0	2802.69	9.25	3.20	1284.99	427.39
	1.300	10.	0.0	0.0	2796.3	2000.0	2803.02	0.0	2803.10	14.28	4.17	1496.59	529.20

BROWNING BRANCH

SUMMARY PRINTOUT TABLE 150

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	0.050	900.	2704.6	0.0	0.0	0.0	173.57	0.0
	0.050	1600.	2705.6	1.0	0.0	0.0	295.44	0.0
	0.050	1900.	2705.9	0.3	0.0	0.0	319.00	0.0
	0.050	2900.	2706.6	0.7	0.0	0.0	527.19	0.0
*	0.140	900.	2710.4	0.0	5.8	0.0	248.23	450.00
*	0.140	1600.	2710.8	0.5	5.2	0.0	261.82	450.00
*	0.140	1900.	2711.0	0.1	5.0	0.0	265.52	450.00
*	0.140	2900.	2711.5	0.5	4.9	0.0	384.11	450.00
*	0.180	900.	2713.4	0.0	3.1	0.0	327.92	230.00
	0.180	1600.	2713.9	0.5	3.1	0.0	329.93	230.00
	0.180	1900.	2714.2	0.2	3.2	0.0	330.91	230.00
	0.180	2900.	2714.7	0.5	3.2	0.0	364.86	230.00
*	0.210	900.	2716.3	0.0	2.9	0.0	102.81	100.00
*	0.210	1600.	2717.6	1.3	3.7	0.0	317.70	100.00
*	0.210	1900.	2717.8	0.2	3.7	0.0	364.60	100.00
*	0.210	2900.	2718.5	0.6	3.8	0.0	475.83	100.00
	0.210	900.	2717.4	0.0	1.1	0.0	282.11	40.00
	0.210	1600.	2718.3	0.9	0.7	0.0	452.17	40.00
	0.210	1900.	2718.6	0.2	0.7	0.0	492.80	40.00
	0.210	2900.	2719.2	0.6	0.7	0.0	520.84	40.00
	0.210	900.	2717.0	0.0	-0.4	0.0	97.07	1.00
	0.210	1600.	2718.3	1.4	0.0	0.0	453.96	1.00
	0.210	1900.	2718.7	0.3	0.1	0.0	511.78	1.00
	0.210	2900.	2719.3	0.6	0.2	0.0	523.81	1.00
	0.210	900.	2718.4	0.0	1.5	0.0	468.73	20.00
	0.210	1600.	2718.8	0.3	0.4	0.0	514.09	20.00
	0.210	1900.	2719.0	0.2	0.3	0.0	517.48	20.00
	0.210	2900.	2719.5	0.6	0.2	0.0	527.06	20.00
	0.210	900.	2718.4	0.0	-0.0	0.0	468.42	1.00
	0.210	1600.	2718.7	0.3	-0.0	0.0	513.69	1.00
	0.210	1900.	2718.9	0.2	-0.0	0.0	517.01	1.00
	0.210	2900.	2719.5	0.6	-0.0	0.0	526.41	1.00
	0.210	900.	2718.4	0.0	0.0	0.0	470.17	10.00
	0.210	1600.	2718.8	0.3	0.0	0.0	514.10	10.00
	0.210	1900.	2719.0	0.2	0.0	0.0	517.46	10.00
	0.210	2900.	2719.5	0.6	0.0	0.0	527.12	10.00
*	0.250	900.	2719.9	0.0	1.4	0.0	105.03	80.00
*	0.250	1600.	2721.2	1.4	2.4	0.0	340.36	80.00
*	0.250	1900.	2721.5	0.3	2.5	0.0	396.18	80.00
*	0.250	2900.	2722.2	0.7	2.7	0.0	513.20	80.00
	0.250	900.	2721.1	0.0	1.2	0.0	310.36	40.00
	0.250	1600.	2722.1	1.1	0.9	0.0	500.51	40.00

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0.250	1900.	2722.4	0.3	0.9	0.0	516.03	40.00
0.250	2900.	2723.0	0.7	0.8	0.0	527.34	40.00

C08

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	0.250	900.	2721.4	0.0	0.3	0.0	233.00	1.00
	0.250	1600.	2722.4	1.0	0.2	0.0	294.24	1.00
	0.250	1900.	2722.6	0.3	0.2	0.0	308.54	1.00
	0.250	2900.	2723.2	0.6	0.2	0.0	343.45	1.00
	0.250	900.	2721.5	0.0	0.1	0.0	253.44	30.00
	0.250	1600.	2722.5	1.0	0.1	0.0	302.56	30.00
	0.250	1900.	2722.8	0.3	0.2	0.0	316.81	30.00
	0.250	2900.	2723.5	0.7	0.2	0.0	350.00	30.00
	0.250	900.	2721.5	0.0	0.0	0.0	350.00	1.00
	0.250	1600.	2722.5	1.0	0.0	0.0	350.00	1.00
	0.250	1900.	2722.8	0.3	0.0	0.0	350.00	1.00
	0.250	2900.	2723.5	0.7	0.1	0.0	350.00	1.00
	0.260	900.	2721.5	0.0	-0.0	0.0	255.00	25.00
	0.260	1600.	2722.5	1.0	-0.0	0.0	255.00	25.00
	0.260	1900.	2722.8	0.3	-0.0	0.0	255.00	25.00
	0.260	2900.	2723.5	0.7	-0.0	0.0	255.00	25.00
*	0.300	900.	2722.6	0.0	1.1	0.0	184.98	200.00
*	0.300	1600.	2723.1	0.5	0.6	0.0	211.89	200.00
*	0.300	1900.	2723.3	0.2	0.5	0.0	216.30	200.00
	0.300	2900.	2724.1	0.9	0.6	0.0	235.58	200.00
	0.340	900.	2725.4	0.0	2.8	0.0	276.09	210.00
	0.340	1600.	2726.2	0.7	3.1	0.0	342.59	210.00
	0.340	1900.	2726.4	0.2	3.1	0.0	348.05	210.00
	0.340	2895.	2726.9	0.5	2.8	0.0	375.12	210.00
*	0.430	895.	2734.6	0.0	9.2	0.0	262.98	540.00
*	0.430	1595.	2735.2	0.6	9.1	0.0	327.24	540.00
*	0.430	1895.	2735.5	0.2	9.1	0.0	351.56	540.00
*	0.430	2890.	2736.0	0.6	9.1	0.0	416.40	540.00
	0.460	895.	2735.8	0.0	1.1	0.0	521.45	180.00
	0.460	1595.	2736.5	0.8	1.3	0.0	612.21	180.00
	0.460	1890.	2736.8	0.3	1.4	0.0	643.27	180.00
	0.460	2890.	2737.5	0.7	1.5	0.0	705.02	180.00
*	0.480	895.	2737.5	0.0	1.7	0.0	691.14	40.00
*	0.480	1595.	2737.8	0.3	1.2	0.0	700.00	40.00
*	0.480	1890.	2737.8	0.0	1.0	0.0	700.00	40.00
*	0.480	2885.	2738.1	0.3	0.6	0.0	700.00	40.00
	0.480	895.	2737.9	0.0	0.4	0.0	700.00	40.00
	0.480	1595.	2738.3	0.4	0.5	0.0	700.00	40.00
	0.480	1890.	2738.4	0.1	0.6	0.0	700.00	40.00
	0.480	2885.	2738.8	0.3	0.6	0.0	700.00	40.00
	0.480	895.	2737.9	0.0	-0.0	0.0	649.07	1.00
	0.480	1595.	2738.3	0.4	0.0	0.0	699.89	1.00
	0.480	1890.	2738.5	0.2	0.1	0.0	700.00	1.00
	0.480	2885.	2738.8	0.4	0.1	0.0	700.00	1.00

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	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	0.480	895.	2738.1	0.0	0.2	0.0	670.42	30.00
	0.480	1595.	2738.5	0.4	0.2	0.0	700.00	30.00
	0.480	1890.	2738.6	0.2	0.2	0.0	700.00	30.00
	0.480	2885.	2739.0	0.4	0.2	0.0	700.00	30.00
	0.480	895.	2738.0	0.0	-0.0	0.0	700.00	1.00
	0.480	1595.	2738.5	0.4	-0.0	0.0	700.00	1.00
	0.480	1890.	2738.6	0.2	-0.0	0.0	700.00	1.00
	0.480	2885.	2739.0	0.4	-0.0	0.0	700.00	1.00
	0.480	895.	2738.1	0.0	0.0	0.0	700.00	10.00
	0.480	1595.	2738.5	0.4	0.0	0.0	700.00	10.00
	0.480	1890.	2738.6	0.2	0.0	0.0	700.00	10.00
	0.480	2885.	2739.0	0.4	0.0	0.0	700.00	10.00
*	0.510	895.	2740.5	0.0	2.4	0.0	285.21	130.00
*	0.510	1590.	2740.9	0.4	2.4	0.0	290.74	130.00
*	0.510	1890.	2741.0	0.1	2.3	0.0	292.40	130.00
*	0.510	2885.	2741.4	0.4	2.4	0.0	298.92	130.00
	0.510	895.	2741.0	0.0	0.5	0.0	293.05	40.00
	0.510	1590.	2741.5	0.5	0.7	0.0	301.03	40.00
	0.510	1890.	2741.7	0.2	0.8	0.0	304.01	40.00
	0.510	2885.	2742.2	0.5	0.8	0.0	307.63	40.00
	0.510	895.	2740.8	0.0	-0.2	0.0	138.56	1.00
*	0.510	1590.	2741.4	0.6	-0.1	0.0	166.32	1.00
*	0.510	1890.	2741.5	0.1	-0.2	0.0	171.21	1.00
*	0.510	2885.	2742.0	0.5	-0.2	0.0	193.19	1.00
	0.540	895.	2742.2	0.0	1.4	0.0	199.63	180.00
	0.540	1590.	2742.9	0.7	1.5	0.0	226.83	180.00
	0.540	1890.	2743.2	0.3	1.7	0.0	237.21	180.00
	0.540	2885.	2743.9	0.7	1.9	0.0	263.11	180.00
	0.540	895.	2742.1	0.0	-0.1	0.0	318.08	1.00
	0.540	1590.	2742.9	0.8	-0.0	0.0	319.87	1.00
	0.540	1890.	2743.2	0.3	0.0	0.0	320.55	1.00
	0.540	2885.	2744.0	0.8	0.1	0.0	322.30	1.00
	0.540	895.	2742.3	0.0	0.2	0.0	318.56	30.00
	0.540	1590.	2743.0	0.7	0.1	0.0	320.17	30.00
	0.540	1890.	2743.3	0.3	0.1	0.0	320.83	30.00
	0.540	2885.	2744.1	0.8	0.1	0.0	322.56	30.00
*	0.610	890.	2745.6	0.0	3.3	0.0	221.60	300.00
*	0.610	1590.	2746.3	0.7	3.2	0.0	375.74	300.00
*	0.610	1885.	2746.5	0.2	3.2	0.0	421.06	300.00
*	0.610	2875.	2746.8	0.3	2.7	0.0	432.64	300.00
	0.610	890.	2746.3	0.0	0.7	0.0	401.97	40.00
	0.610	1590.	2747.0	0.7	0.7	0.0	468.00	40.00
	0.610	1885.	2747.2	0.2	0.7	0.0	468.00	40.00
	0.610	2875.	2747.8	0.6	1.0	0.0	468.00	40.00

E08

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	0.610	890.	2746.4	0.0	0.1	0.0	378.66	1.00
	0.610	1590.	2747.1	0.7	0.1	0.0	449.98	1.00
	0.610	1885.	2747.3	0.2	0.1	0.0	468.00	1.00
	0.610	2875.	2747.9	0.6	0.1	0.0	468.00	1.00
	0.610	890.	2746.6	0.0	0.2	0.0	416.80	30.00
	0.610	1590.	2747.3	0.7	0.2	0.0	468.00	30.00
	0.610	1885.	2747.5	0.2	0.2	0.0	468.00	30.00
	0.610	2875.	2748.2	0.6	0.2	0.0	468.00	30.00
	0.610	890.	2746.6	0.0	-0.0	0.0	422.21	1.00
	0.610	1590.	2747.3	0.7	-0.0	0.0	468.00	1.00
	0.610	1885.	2747.5	0.2	-0.0	0.0	468.00	1.00
	0.610	2875.	2748.1	0.6	-0.0	0.0	468.00	1.00
	0.610	890.	2746.6	0.0	0.0	0.0	423.43	10.00
	0.610	1590.	2747.3	0.7	0.0	0.0	468.00	10.00
	0.610	1885.	2747.6	0.2	0.0	0.0	468.00	10.00
	0.610	2875.	2748.2	0.6	0.0	0.0	468.00	10.00
*	0.740	890.	2755.9	0.0	9.2	0.0	33.43	570.00
*	0.740	1585.	2757.9	2.1	10.6	0.0	305.57	570.00
*	0.740	1880.	2758.2	0.3	10.7	0.0	351.78	570.00
*	0.740	2865.	2759.0	0.7	10.8	0.0	798.00	570.00
	0.740	890.	2757.6	0.0	1.7	0.0	231.27	40.00
	0.740	1585.	2758.9	1.3	1.0	0.0	788.31	40.00
	0.740	1880.	2759.2	0.3	1.0	0.0	844.29	40.00
	0.740	2865.	2759.8	0.6	0.8	0.0	958.67	40.00
	0.740	890.	2757.6	0.0	0.0	0.0	232.29	30.00
	0.740	1585.	2758.9	1.3	0.0	0.0	789.21	30.00
	0.740	1880.	2759.2	0.3	0.0	0.0	844.95	30.00
	0.740	2865.	2759.8	0.5	-0.0	0.0	956.70	30.00
	0.740	890.	2757.7	0.0	0.1	0.0	249.91	10.00
	0.740	1585.	2759.0	1.3	0.0	0.0	796.50	10.00
	0.740	1880.	2759.2	0.3	0.0	0.0	851.80	10.00
	0.740	2865.	2759.8	0.5	0.0	0.0	963.96	10.00
*	0.800	885.	2759.5	0.0	1.8	0.0	360.02	300.00
	0.800	1580.	2760.2	0.7	1.3	0.0	415.00	300.00
	0.800	1875.	2760.4	0.2	1.2	0.0	415.00	300.00
	0.800	2860.	2761.1	0.6	1.3	0.0	415.00	300.00
	0.800	885.	2760.1	0.0	0.5	0.0	415.00	40.00
	0.800	1580.	2760.7	0.6	0.4	0.0	415.00	40.00
	0.800	1875.	2760.9	0.2	0.4	0.0	415.00	40.00
	0.800	2860.	2761.5	0.6	0.4	0.0	415.00	40.00
	0.800	885.	2760.5	0.0	0.5	0.0	415.00	30.00
	0.800	1580.	2760.9	0.4	0.3	0.0	415.00	30.00
	0.800	1875.	2761.1	0.1	0.2	0.0	415.00	30.00
	0.800	2860.	2761.6	0.5	0.1	0.0	415.00	30.00

F08

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	0.800	885.	2760.6	0.0	0.1	0.0	405.22	30.00
*	0.800	1580.	2761.1	0.5	0.2	0.0	445.00	30.00
*	0.800	1875.	2761.3	0.2	0.2	0.0	445.00	30.00
*	0.800	2860.	2761.7	0.4	0.1	0.0	445.00	30.00
*	0.980	885.	2774.3	0.0	13.7	0.0	481.03	900.00
*	0.980	1575.	2774.7	0.4	13.6	0.0	558.32	900.00
*	0.980	1865.	2774.8	0.1	13.6	0.0	576.52	900.00
*	0.980	2850.	2775.2	0.3	13.5	0.0	594.71	900.00
	0.980	885.	2774.7	0.0	0.4	0.0	557.06	40.00
	0.980	1575.	2775.2	0.5	0.5	0.0	595.82	40.00
	0.980	1865.	2775.3	0.2	0.5	0.0	604.33	40.00
	0.980	2850.	2775.8	0.4	0.6	0.0	627.19	40.00
	0.980	885.	2774.7	0.0	0.0	0.0	546.92	1.00
	0.980	1575.	2775.3	0.6	0.1	0.0	601.22	1.00
	0.980	1865.	2775.5	0.2	0.1	0.0	610.13	1.00
	0.980	2850.	2775.9	0.5	0.1	0.0	634.30	1.00
	0.980	885.	2775.0	0.0	0.2	0.0	584.62	30.00
	0.980	1575.	2775.5	0.5	0.2	0.0	611.08	30.00
	0.980	1865.	2775.6	0.2	0.2	0.0	620.27	30.00
	0.980	2850.	2776.1	0.5	0.2	0.0	644.37	30.00
	0.980	885.	2775.0	0.0	0.0	0.0	404.09	20.00
	0.980	1575.	2775.5	0.5	-0.0	0.0	610.99	20.00
	0.980	1865.	2775.6	0.2	-0.0	0.0	620.13	20.00
	0.980	2850.	2776.1	0.5	-0.0	0.0	644.41	20.00
*	0.980	885.	2775.3	0.0	0.4	0.0	522.33	20.00
*	0.980	1575.	2775.7	0.4	0.3	0.0	557.78	20.00
*	0.980	1865.	2775.8	0.1	0.2	0.0	567.39	20.00
*	0.980	2850.	2776.2	0.3	0.1	0.0	597.56	20.00
*	1.190	600.	2790.1	0.0	14.7	0.0	18.35	1100.00
*	1.190	1100.	2791.9	1.8	16.2	0.0	533.94	1100.00
*	1.190	1300.	2792.0	0.1	16.2	0.0	562.49	1100.00
*	1.190	2000.	2792.3	0.3	16.2	0.0	631.14	1100.00
	1.190	600.	2791.9	0.0	1.9	0.0	543.83	40.00
	1.190	1100.	2792.4	0.4	0.5	0.0	642.02	40.00
	1.190	1300.	2792.5	0.1	0.5	0.0	670.69	40.00
	1.190	2000.	2792.9	0.4	0.6	0.0	680.35	40.00
	1.190	600.	2792.2	0.0	0.2	0.0	683.09	30.00
	1.190	1100.	2792.4	0.2	0.1	0.0	743.22	30.00
	1.190	1300.	2792.6	0.1	0.0	0.0	761.54	30.00
	1.190	2000.	2793.0	0.4	0.0	0.0	771.12	30.00
	1.190	600.	2792.2	0.0	0.0	0.0	686.88	10.00
	1.190	1100.	2792.5	0.3	0.0	0.0	748.99	10.00
	1.190	1300.	2792.6	0.1	0.0	0.0	762.16	10.00
	1.190	2000.	2793.0	0.4	0.0	0.0	771.87	10.00

GO8

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	1.300	600.	2800.2	0.0	8.0	0.0	234.84	480.00
*	1.300	1100.	2800.9	0.7	8.5	0.0	431.13	480.00
*	1.300	1300.	2801.0	0.1	8.4	0.0	441.47	480.00
*	1.300	2000.	2801.4	0.4	8.4	0.0	458.60	480.00
	1.300	600.	2800.9	0.0	0.6	0.0	427.73	40.00
	1.300	1100.	2801.5	0.6	0.5	0.0	462.42	40.00
	1.300	1300.	2801.7	0.2	0.7	0.0	475.24	40.00
	1.300	2000.	2802.1	0.5	0.7	0.0	536.67	40.00
*	1.300	600.	2802.0	0.0	1.2	0.0	533.68	30.00
	1.300	1100.	2802.5	0.5	1.0	0.0	548.09	30.00
	1.300	1300.	2802.6	0.1	1.0	0.0	549.54	30.00
	1.300	2000.	2803.0	0.4	0.9	0.0	553.70	30.00
	1.300	600.	2802.0	0.0	0.0	0.0	534.07	10.00
	1.300	1100.	2802.5	0.5	0.0	0.0	548.26	10.00
	1.300	1300.	2802.6	0.1	0.0	0.0	549.72	10.00
	1.300	2000.	2803.0	0.4	0.0	0.0	553.95	10.00

SUMMARY OF ERRORS

CAUTION SECNO= 0.140 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 0.140 PROFILE= 1
PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 0.140 PROFILE= 1
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CAUTION SECNO= 0.140 PROFILE= 2 CRITICAL DEPTH ASSUMED
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CAUTION SECNO= 0.140 PROFILE= 4 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.180 PROFILE= 1 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.210 PROFILE= 1 CRITICAL DEPTH ASSUMED
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PROBABLE MINIMUM SPECIFIC ENERGY
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PROBABLE MINIMUM SPECIFIC ENERGY
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 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION  SECNO=    1.300  PROFILE= 2
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CAUTION  SECNO=    1.300  PROFILE= 3  CRITICAL DEPTH ASSUMED
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CAUTION  SECNO=    1.300  PROFILE= 4  CRITICAL DEPTH ASSUMED
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 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION  SECNO=    1.300  PROFILE= 4
 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION  SECNO=    1.300  PROFILE= 1  HYDRAULIC JUMP D.S.
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L08

BROWNING BRANCH

WAYNESVILLE NC

	500 YEAR FLOOD		100 YEAR FLOOD		50 YEAR FLOOD		10 YEAR FLOOD	
MILE	Q	ELEV	Q	ELEV	Q	ELEV	Q	ELEV
0.050	2900.	2706.6	1900.	2705.9	1600.	2705.6	900.	2704.6
0.140	2900.	2711.5	1900.	2711.0	1600.	2710.8	900.	2710.4
0.180	2900.	2714.7	1900.	2714.2	1600.	2713.9	900.	2713.4
0.210	2900.	2718.5	1900.	2717.8	1600.	2717.6	900.	2716.3
0.210	2900.	2719.5	1900.	2719.0	1600.	2718.8	900.	2718.4
0.250	2900.	2722.2	1900.	2721.5	1600.	2721.2	900.	2719.9
0.250	2900.	2723.5	1900.	2722.8	1600.	2722.5	900.	2721.5
0.260	2900.	2723.5	1900.	2722.8	1600.	2722.5	900.	2721.5
0.300	2900.	2724.1	1900.	2723.3	1600.	2723.1	900.	2722.6
0.340	2895.	2726.9	1900.	2726.4	1600.	2726.2	900.	2725.4
0.430	2890.	2736.0	1895.	2735.5	1595.	2735.2	895.	2734.6
0.460	2890.	2737.5	1890.	2736.8	1595.	2736.5	895.	2735.8
0.480	2885.	2738.1	1890.	2737.8	1595.	2737.8	895.	2737.5
0.480	2885.	2739.0	1890.	2738.6	1595.	2738.5	895.	2738.1
0.510	2885.	2741.4	1890.	2741.0	1590.	2740.9	895.	2740.5
0.510	2885.	2742.0	1890.	2741.5	1590.	2741.4	895.	2740.8
0.540	2885.	2743.9	1890.	2743.2	1590.	2742.9	895.	2742.2
0.540	2885.	2744.1	1890.	2743.3	1590.	2743.0	895.	2742.3
0.610	2875.	2746.8	1885.	2746.5	1590.	2746.3	890.	2745.6
0.610	2875.	2748.2	1885.	2747.6	1590.	2747.3	890.	2746.6
0.740	2865.	2759.0	1880.	2758.2	1585.	2757.9	890.	2755.9
0.740	2865.	2759.8	1880.	2759.2	1585.	2759.0	890.	2757.7
0.800	2860.	2761.1	1875.	2760.4	1580.	2760.2	885.	2759.5
0.800	2860.	2761.7	1875.	2761.3	1580.	2761.1	885.	2760.6
0.980	2850.	2775.2	1865.	2774.8	1575.	2774.7	885.	2774.3
0.980	2850.	2776.2	1865.	2775.8	1575.	2775.7	885.	2775.3

M08

MD8

1.190	2000.	2792.3	1300.	2792.0	1100.	2791.9	600. 2790.1
1.190	2000.	2793.0	1300.	2792.6	1100.	2792.5	600. 2792.2
1.300	2000.	2801.4	1300.	2801.0	1100.	2800.9	600. 2800.2
1.300	2000.	2803.0	1300.	2802.6	1100.	2802.5	600. 2802.0

FLOOD INSURANCE ZONE DATA FOR BROWNING BRANCH

FLOOD HAZARD FACTOR FOR ENTIRE REACH USING SECTIONS

SECTION NUMBER	CUMULATIVE DISTANCE	ELEVATION DIFFERENCE BETWEEN BASE FLOOD AND¢ 10¢	2¢	0.2¢
0.050	0.	-1.34	-0.32	0.69
0.140	450.	-0.62	-0.13	0.51
0.180	680.	-0.74	-0.24	0.54
0.210	780.	-1.52	-0.24	0.63
0.210	820.	-1.18	-0.24	0.60
0.210	821.	-1.73	-0.35	0.65
0.210	841.	-0.53	-0.20	0.57
0.210	842.	-0.51	-0.20	0.56
0.210	852.	-0.53	-0.20	0.56
0.250	932.	-1.64	-0.28	0.72
0.250	972.	-1.33	-0.27	0.67
0.250	973.	-1.22	-0.26	0.63
0.250	1003.	-1.27	-0.28	0.70
0.250	1004.	-1.29	-0.28	0.72
0.260	1029.	-1.29	-0.28	0.71
0.300	1229.	-0.68	-0.18	0.88
0.340	1439.	-0.97	-0.24	0.54
0.430	1979.	-0.85	-0.21	0.56
0.460	2159.	-1.06	-0.27	0.72
0.480	2199.	-0.34	-0.05	0.30
0.480	2239.	-0.53	-0.15	0.35
0.480	2240.	-0.60	-0.16	0.35
0.480	2270.	-0.57	-0.15	0.38
0.480	2271.	-0.56	-0.15	0.38
0.480	2281.	-0.57	-0.15	0.39
0.510	2411.	-0.47	-0.11	0.43
0.510	2451.	-0.72	-0.20	0.51
0.510	2452.	-0.72	-0.11	0.48
0.540	2632.	-1.01	-0.28	0.71
0.540	2633.	-1.08	-0.29	0.78
0.540	2663.	-0.99	-0.28	0.77
0.610	2963.	-0.90	-0.21	0.31
0.610	3003.	-0.90	-0.21	0.62
0.610	3004.	-0.91	-0.21	0.63
0.610	3034.	-0.92	-0.22	0.64
0.610	3035.	-0.91	-0.22	0.63
0.610	3045.	-0.92	-0.22	0.64
0.740	3615.	-2.38	-0.32	0.74
0.740	3655.	-1.60	-0.27	0.55
0.740	3685.	-1.60	-0.27	0.55
0.740	3695.	-1.55	-0.27	0.55
0.800	3995.	-0.93	-0.23	0.64
0.800	4035.	-0.82	-0.21	0.62
0.800	4065.	-0.53	-0.14	0.49
0.800	4095.	-0.65	-0.17	0.42
0.980	4995.	-0.57	-0.13	0.34
0.980	5035.	-0.66	-0.16	0.43
0.980	5036.	-0.72	-0.17	0.45
0.980	5066.	-0.67	-0.17	0.45

0.980	5086.	-0.66	-0.17	0.45
0.980	5106.	-0.50	-0.11	0.33
1.190	6206.	-1.95	-0.13	0.32
1.190	6246.	-0.58	-0.15	0.40
1.190	6276.	-0.38	-0.13	0.39
1.190	6286.	-0.40	-0.13	0.40
1.300	6766.	-0.74	-0.06	0.43
1.300	6806.	-0.77	-0.20	0.45
1.300	6836.	-0.59	-0.13	0.38
1.300	6846.	-0.60	-0.13	0.38
WEIGHTED AVG FOR REACH		-0.97	-0.19	0.51

FHF FOR THE REACH = 010 WITH 89.2% OF THE REACH WITHIN 0.5 FEET
ZONE FOR THE REACH = A 2

CONTINUOUS FLOOD HAZARD FACTORS BY EVEN INCREMENTS

INC NO.	TOTAL LENGTH	AVG ELEVATION DATA 10¢	1¢	DIFF.	WTD. AVG.	FHF	PERCENT WITHIN
	0.				SEC.		0.050
1	100.	2705.23	2706.49	-1.26	-1.26	015	100.
2	200.	2706.51	2707.62	-1.10	-1.18	010	100.
3	300.	2707.79	2708.74	-0.94	-1.10	010	100.
4	400.	2709.07	2709.86	-0.79	-1.02	010	100.
	450.				SEC.		0.140
5	500.	2710.37	2711.04	-0.68	-0.95	010	100.
6	600.	2711.69	2712.37	-0.68	-0.91	010	100.
	680.				SEC.		0.180
7	700.	2713.18	2713.98	-0.80	-0.89	010	100.
	780.				SEC.		0.210
8	800.	2715.43	2716.55	-1.13	-0.92	010	100.
	820.				SEC.		0.210
	821.				SEC.		0.210
	841.				SEC.		0.210
	842.				SEC.		0.210
	852.				SEC.		0.210
9	900.	2718.07	2719.34	-1.27	-0.96	010	100.
	932.				SEC.		0.250
	972.				SEC.		0.250
	973.				SEC.		0.250
10	1000.	2720.39	2721.62	-1.23	-0.99	010	100.
	1003.				SEC.		0.250
	1004.				SEC.		0.250
	1029.				SEC.		0.260
11	1100.	2721.70	2722.87	-1.17	-1.00	010	100.
12	1200.	2722.17	2723.09	-0.92	-1.00	010	100.
	1229.				SEC.		0.300
13	1300.	2722.99	2723.76	-0.77	-0.98	010	100.
14	1400.	2724.22	2725.07	-0.85	-0.97	010	100.
	1439.				SEC.		0.340
15	1500.	2725.68	2726.61	-0.93	-0.97	010	100.
16	1600.	2727.31	2728.25	-0.95	-0.97	010	100.

17	1700.	2729.01	2729.93	-0.92	-0.96	010 100.
18	1800.	2730.71	2731.61	-0.90	-0.96	010 100.
19	1900.	2732.41	2733.29	-0.88	-0.96	010 100.
	1979.				SEC.	0.430
20	2000.	2734.00	2734.87	-0.87	-0.95	010 100.
21	2100.	2735.06	2735.99	-0.93	-0.95	010 100.
	2159.				SEC.	0.460
	2199.				SEC.	0.480
22	2200.	2736.44	2737.10	-0.67	-0.94	010 100.
	2239.				SEC.	0.480
	2240.				SEC.	0.480
	2270.				SEC.	0.480
	2271.				SEC.	0.480
	2281.				SEC.	0.480
23	2300.	2737.96	2738.40	-0.45	-0.92	010 100.
24	2400.	2739.35	2739.87	-0.52	-0.90	010 100.
	2411.				SEC.	0.510
	2451.				SEC.	0.510
	2452.				SEC.	0.510
25	2500.	2740.73	2741.37	-0.64	-0.89	010 100.
26	2600.	2741.55	2742.43	-0.88	-0.89	010 100.
	2632.				SEC.	0.540
	2633.				SEC.	0.540
	2663.				SEC.	0.540
27	2700.	2742.33	2743.30	-0.97	-0.89	010 100.
28	2800.	2743.27	2744.23	-0.96	-0.89	010 100.
29	2900.	2744.35	2745.29	-0.93	-0.90	010 100.
	2963.				SEC.	0.610
30	3000.	2745.57	2746.48	-0.91	-0.90	010 100.
	3003.				SEC.	0.610
	3004.				SEC.	0.610
	3034.				SEC.	0.610
	3035.				SEC.	0.610
	3045.				SEC.	0.610
31	3100.	2746.89	2747.87	-0.98	-0.90	010 100.
32	3200.	2748.33	2749.52	-1.19	-0.91	010 100.
33	3300.	2749.95	2751.39	-1.44	-0.92	010 97.
34	3400.	2751.57	2753.27	-1.70	-0.95	010 97.
35	3500.	2753.18	2755.14	-1.96	-0.98	010 91.
36	3600.	2754.80	2757.01	-2.21	-1.01	010 89.
	3615.				SEC.	0.740
	3655.				SEC.	0.740
	3685.				SEC.	0.740
	3695.				SEC.	0.740
37	3700.	2756.66	2758.60	-1.94	-1.04	010 84.
38	3800.	2758.02	2759.45	-1.43	-1.05	010 84.
39	3900.	2758.63	2759.86	-1.23	-1.05	010 85.
	3995.				SEC.	0.800
40	4000.	2759.25	2760.28	-1.02	-1.05	010 85.
	4035.				SEC.	0.800
	4065.				SEC.	0.800
	4095.				SEC.	0.800
41	4100.	2760.12	2760.91	-0.79	-1.04	010 85.
42	4200.	2761.43	2762.08	-0.65	-1.03	010 86.
43	4300.	2762.95	2763.59	-0.64	-1.02	010 86.
44	4400.	2764.47	2765.10	-0.63	-1.02	010 89.
45	4500.	2765.98	2766.61	-0.62	-1.01	010 89.
46	4600.	2767.50	2768.12	-0.61	-1.00	010 89.
47	4700.	2769.02	2769.62	-0.60	-0.99	010 89.
48	4800.	2770.54	2771.13	-0.59	-0.98	010 90.

D09

49	4900.	2772.06	2772.64	-0.58	-0.97	010	90.
	4995.				SEC.	0.980	
50	5000.	2773.56	2774.14	-0.58	-0.97	010	90.
	5035.				SEC.	0.980	
	5036.				SEC.	0.980	
	5066.				SEC.	0.980	
	5086.				SEC.	0.980	
51	5100.	2774.77	2775.34	-0.56	-0.96	010	90.
	5106.				SEC.	0.980	
52	5200.	2775.92	2776.50	-0.58	-0.95	010	90.
53	5300.	2777.27	2777.96	-0.69	-0.95	010	92.
54	5400.	2778.61	2779.43	-0.82	-0.94	010	93.
55	5500.	2779.95	2780.90	-0.95	-0.94	010	93.
56	5600.	2781.29	2782.37	-1.08	-0.95	010	93.
57	5700.	2782.63	2783.84	-1.21	-0.95	010	91.
58	5800.	2783.97	2785.31	-1.34	-0.96	010	91.
59	5900.	2785.31	2786.79	-1.48	-0.97	010	90.
60	6000.	2786.65	2788.26	-1.61	-0.98	010	90.
61	6100.	2787.99	2789.73	-1.74	-0.99	010	89.
62	6200.	2789.33	2791.20	-1.87	-1.00	010	87.
	6206.				SEC.	1.190	
	6246.				SEC.	1.190	
	6276.				SEC.	1.190	
	6286.				SEC.	1.190	
63	6300.	2791.21	2792.38	-1.17	-1.01	010	87.
64	6400.	2793.27	2793.71	-0.44	-1.00	010	86.
65	6500.	2794.94	2795.46	-0.51	-0.99	010	86.
66	6600.	2796.62	2797.20	-0.58	-0.98	010	86.
67	6700.	2798.29	2798.95	-0.66	-0.98	010	87.
	6766.				SEC.	1.300	
68	6800.	2799.96	2800.69	-0.73	-0.98	010	85.
	6806.				SEC.	1.300	
	6836.				SEC.	1.300	
	6846.				SEC.	1.300	

THIS REACH CAN BE SUBDIVIDED BY INC NO. TO MEET FIA REQUIREMENTS
INPUT 20N WHERE N IS THE NUMBER OF REACHES AND THEN INPUT THE END
OF EACH REACH BY INC NO. FOR EXAMPLE¢ 202 68 68
A NEGATIVE INC NO. WILL SUPPRESS INTERMEDIATE INC OUTPUT.

CONTINUOUS FLOOD HAZARD FACTORS BY EVEN INCREMENTS

INC NO.	TOTAL LENGTH	AVG ELEVATION DATA 10¢	1¢	DIFF.	WTD. AVG.	FHF	PERCENT WITHIN
	0.				SEC.	0.050	
1	100.	2705.23	2706.49	-1.26	-1.26	015	100.
2	200.	2706.51	2707.62	-1.10	-1.18	010	100.
3	300.	2707.79	2708.74	-0.94	-1.10	010	100.
4	400.	2709.07	2709.86	-0.79	-1.02	010	100.
	450.				SEC.	0.140	
5	500.	2710.37	2711.04	-0.68	-0.95	010	100.
6	600.	2711.69	2712.37	-0.68	-0.91	010	100.
	680.				SEC.	0.180	
7	700.	2713.18	2713.98	-0.80	-0.89	010	100.
	780.				SEC.	0.210	

8	800.	2715.43	2716.55	-1.13	-0.92	010	100.
	820.				SEC.	0.210	
	821.				SEC.	0.210	
	841.				SEC.	0.210	
	842.				SEC.	0.210	
	852.				SEC.	0.210	
9	900.	2718.07	2719.34	-1.27	-0.96	010	100.
	932.				SEC.	0.250	
	972.				SEC.	0.250	
	973.				SEC.	0.250	
10	1000.	2720.39	2721.62	-1.23	-0.99	010	100.
	1003.				SEC.	0.250	
	1004.				SEC.	0.250	
	1029.				SEC.	0.260	
11	1100.	2721.70	2722.87	-1.17	-1.00	010	100.
12	1200.	2722.17	2723.09	-0.92	-1.00	010	100.
	1229.				SEC.	0.300	
13	1300.	2722.99	2723.76	-0.77	-0.98	010	100.
14	1400.	2724.22	2725.07	-0.85	-0.97	010	100.
	1439.				SEC.	0.340	
15	1500.	2725.68	2726.61	-0.93	-0.97	010	100.
16	1600.	2727.31	2728.25	-0.95	-0.97	010	100.
17	1700.	2729.01	2729.93	-0.92	-0.96	010	100.
18	1800.	2730.71	2731.61	-0.90	-0.96	010	100.
19	1900.	2732.41	2733.29	-0.88	-0.96	010	100.
	1979.				SEC.	0.430	
20	2000.	2734.00	2734.87	-0.87	-0.95	010	100.
21	2100.	2735.06	2735.99	-0.93	-0.95	010	100.
	2159.				SEC.	0.460	
	2199.				SEC.	0.480	
22	2200.	2736.44	2737.10	-0.67	-0.94	010	100.
	2239.				SEC.	0.480	
	2240.				SEC.	0.480	
	2270.				SEC.	0.480	
	2271.				SEC.	0.480	
	2281.				SEC.	0.480	
23	2300.	2737.96	2738.40	-0.45	-0.92	010	100.
24	2400.	2739.35	2739.87	-0.52	-0.90	010	100.
	2411.				SEC.	0.510	
	2451.				SEC.	0.510	
	2452.				SEC.	0.510	
25	2500.	2740.73	2741.37	-0.64	-0.89	010	100.
26	2600.	2741.55	2742.43	-0.88	-0.89	010	100.
	2632.				SEC.	0.540	
	2633.				SEC.	0.540	
	2663.				SEC.	0.540	
27	2700.	2742.33	2743.30	-0.97	-0.89	010	100.
28	2800.	2743.27	2744.23	-0.96	-0.89	010	100.
29	2900.	2744.35	2745.29	-0.93	-0.90	010	100.
	2963.				SEC.	0.610	
30	3000.	2745.57	2746.48	-0.91	-0.90	010	100.
	3003.				SEC.	0.610	
	3004.				SEC.	0.610	
	3034.				SEC.	0.610	
	3035.				SEC.	0.610	
	3045.				SEC.	0.610	
31	3100.	2746.89	2747.87	-0.98	-0.90	010	100.
32	3200.	2748.33	2749.52	-1.19	-0.91	010	100.
33	3300.	2749.95	2751.39	-1.44	-0.92	010	97.
34	3400.	2751.57	2753.27	-1.70	-0.95	010	97.

35	3500.	2753.18	2755.14	-1.96	-0.98	010	91.
36	3600.	2754.80	2757.01	-2.21	-1.01	010	89.
	3615.				SEC.	0.740	
	3655.				SEC.	0.740	
	3685.				SEC.	0.740	
	3695.				SEC.	0.740	
37	3700.	2756.66	2758.60	-1.94	-1.04	010	84.
38	3800.	2758.02	2759.45	-1.43	-1.05	010	84.
39	3900.	2758.63	2759.86	-1.23	-1.05	010	85.
	3995.				SEC.	0.800	
40	4000.	2759.25	2760.28	-1.02	-1.05	010	85.
	4035.				SEC.	0.800	
	4065.				SEC.	0.800	
	4095.				SEC.	0.800	
41	4100.	2760.12	2760.91	-0.79	-1.04	010	85.
42	4200.	2761.43	2762.08	-0.65	-1.03	010	86.
43	4300.	2762.95	2763.59	-0.64	-1.02	010	86.
44	4400.	2764.47	2765.10	-0.63	-1.02	010	89.
45	4500.	2765.98	2766.61	-0.62	-1.01	010	89.
46	4600.	2767.50	2768.12	-0.61	-1.00	010	89.
47	4700.	2769.02	2769.62	-0.60	-0.99	010	89.
48	4800.	2770.54	2771.13	-0.59	-0.98	010	90.
49	4900.	2772.06	2772.64	-0.58	-0.97	010	90.
	4995.				SEC.	0.980	
50	5000.	2773.56	2774.14	-0.58	-0.97	010	90.
	5035.				SEC.	0.980	
	5036.				SEC.	0.980	
	5066.				SEC.	0.980	
	5086.				SEC.	0.980	
51	5100.	2774.77	2775.34	-0.56	-0.96	010	90.
	5106.				SEC.	0.980	
52	5200.	2775.92	2776.50	-0.58	-0.95	010	90.
53	5300.	2777.27	2777.96	-0.69	-0.95	010	92.
54	5400.	2778.61	2779.43	-0.82	-0.94	010	93.
55	5500.	2779.95	2780.90	-0.95	-0.94	010	93.
56	5600.	2781.29	2782.37	-1.08	-0.95	010	93.
57	5700.	2782.63	2783.84	-1.21	-0.95	010	91.
58	5800.	2783.97	2785.31	-1.34	-0.96	010	91.
59	5900.	2785.31	2786.79	-1.48	-0.97	010	90.
60	6000.	2786.65	2788.26	-1.61	-0.98	010	90.
61	6100.	2787.99	2789.73	-1.74	-0.99	010	89.
62	6200.	2789.33	2791.20	-1.87	-1.00	010	87.
	6206.				SEC.	1.190	
	6246.				SEC.	1.190	
	6276.				SEC.	1.190	
	6286.				SEC.	1.190	
63	6300.	2791.21	2792.38	-1.17	-1.01	010	87.
64	6400.	2793.27	2793.71	-0.44	-1.00	010	86.
65	6500.	2794.94	2795.46	-0.51	-0.99	010	86.
66	6600.	2796.62	2797.20	-0.58	-0.98	010	86.
67	6700.	2798.29	2798.95	-0.66	-0.98	010	87.
	6766.				SEC.	1.300	
68	6800.	2799.96	2800.69	-0.73	-0.98	010	85.
	6806.				SEC.	1.300	
	6836.				SEC.	1.300	
	6846.				SEC.	1.300	

ELEVATION DIFFERENCE
BETWEEN BASE FLOOD AND
10¢ 2¢ 0.2¢

WEIGHTED AVG FOR REACH -0.98 -0.19 0.51

FHF FOR REACH 2 = 010 WITH 85.¢ OF THE REACH WITHIN 0.5 FEET
ZONE FOR THE REACH = A ?
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THIS RUN EXECUTED 08/01/81 8:20:12

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  HEC2 RELEASE DATED NOV 76 UPDATED JULY1979
  ERROR CORR -  01,02,03
  MODIFICATION -  50,51,52,53,54
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T1      WAYNESVILLE NC                          BROWNIF  12-9-80 GNC                          5
T2      100 YEAR FLOOD                          JCL KEY = HCDQ134                            10
T3      BROWNING BRANCH                         100 YEAR FLOODWAY                            15

J1  ICHECK     INQ    NINV    IDIR    STRT  METRIC   HVINS     Q      WSEL     FQ
         0.      4.      0.      0. 0.00500      0.    0.0      0.     0.0     0.0        20

J2  NPROF   IPLOT   PRFVS   XSECV   XSECH      FN   ALLDC     IBW   CHNIM ITRACE
         0.      0.     -1.      0.      0.   0.0     0.0      0.      0.      0.        25

J3  VARIABLE CODES FOR SUMMARY PRINTOUT

      110.00    0.0  200.00     0.0     0.0     0.0     0.0     0.0     0.0     0.0      30

   NC 0.100   0.070   0.045     0.1     0.5                                               35
   QT     5.    900.   1600.   1900.   2900.   1900.      D.      D.      D.      D.      40
   ET     0.    0.0     0.0     0.0     0.0    7.11  230.00  360.00     0.0     0.0      45

   X1  0.05     21.    260.    280.      0.      0.      0.     0.0     0.0      0.      50
   GR 2707.3    60.  2706.2   130.  2730.0   130.  2730.0   170.  2705.3   170.      55
   GR 2705.0   200.  2705.3   215.  2702.5   240.  2703.0   250.  2701.0   260.      60
   GR 2698.5   260.  2698.6   265.  2699.0   270.  2701.5   280.  2706.0   300.      65
   GR 2706.0   330.  2706.3   334.  2705.5   340.  2703.0   343.  2706.0   530.      70
   GR 2706.0   670.     0.0     0.     0.0     0.     0.0     0.     0.0     0.      75
   NC  0.070  0.070   0.045     0.0     0.0                                           80
   ET     0.    0.0     0.0     0.0     0.    7.11  290.00  400.00     0.0     0.0      85

   X1  0.14     26.    318.    330.    450.    450.    450.     0.0     0.0      0.      90
   GR 2720.0    55.  2715.0    63.  2712.7    65.  2711.7    91.  2711.4   119.      95
   GR 2710.1   121.  2707.5   122.  2707.5   125.  2711.3   126.  2711.2   134.     100
   GR 2711.0   200.  2711.2   230.  2708.5   300.  2708.7   318.  2706.0   320.     105
   GR 2705.5   322.  2705.5   324.  2706.0   326.  2709.2   330.  2709.7   342.     110
   GR 2709.3   342.  2709.3   392.  2709.7   392.  2709.8   487.  2710.3   487.     115
   GR 2710.3   495.     0.0     0.     0.0     0.     0.0     0.     0.0     0.     120
   NC  0.090  0.070   0.045     0.0     0.0                                           125
   ET     0.    0.0     0.0     0.0     0.    7.11  230.00  400.00     0.0     0.0     130

   X1  0.18     18.    300.    321.    250.    230.    230.     0.0     0.0      0.     135
   GR 2714.7    35.  2714.5    40.  2714.5    65.  2715.7    75.  2714.8   130.     140
   GR 2725.0   130.  2725.0   230.  2713.2   230.  2712.5   285.  2712.6   300.     145
   GR 2709.0   306.  2708.6   309.  2709.0   315.  2712.8   321.  2712.2   490.     150
   GR 2712.7   490.  2713.2   557.  2720.0   584.     0.0     0.     0.0     0.     155
   ET     0.    0.0     0.0     0.0     0.    7.11  230.00  400.00     0.0     0.0     160
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B01

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X1   0.21     20.    300.    320.    150.    100.    100.    0.0     0.0     0.    165
GR 2725.0      35.   2718.6    35.  2718.4    45.  2715.5    50.  2718.2    52.   170
GR 2717.6      90.   2716.6   127.  2716.6   160.  2730.0   160.  2730.0   210.   175
GR 2716.9     210.   2717.0   257.  2714.7   300.  2711.0   306.  2710.5   310.   180
GR 2711.0     315.   2714.8   320.  2717.2   400.  2718.7   598.  2720.0   620.   185
ET    0.      0.0     0.0     0.0     0.0    7.11  230.00  400.00   0.0     0.0    190

X1   0.21      0.     0.      0.     40.     40.     40.     0.0     0.0     0.    195
ET    0.      0.0     0.0     0.0     0.0    7.11  230.00  400.00   0.0     0.0    200

X1   0.21     23.    300.    320.     1.      1.      1.     0.0     0.0     0.    205
BT    6.0    257.0  2717.0     0.0  300.0  2717.9     0.0  300.0  2717.9  2716.1   210
BT  320.0   2717.9  2716.1   320.0  2717.9     0.0  350.0  2717.6     0.0     0.0   215
GR 2725.0      35.   2718.6    35.  2718.4    45.  2715.5    50.  2718.2    52.   220
GR 2717.6      90.   2716.6   127.  2716.6   160.  2730.0   160.  2730.0   210.   225
GR 2716.9     210.   2717.0   257.  2717.9   300.  2712.5   300.  2711.4   304.   230
GR 2710.5     306.   2710.9   309.  2711.4   320.  2717.9   320.  2717.6   350.   235
GR 2717.2     400.   2718.7   598.  2720.0   620.     0.0     0.     0.0     0.    240
ET    0.      0.0     0.0     0.0     0.0    7.11  230.00  400.00   0.0     0.0    245

X1   0.21      0.     0.      0.     20.     20.     20.     0.0     0.0     0.    250
X2    0.      0.0     0.     0.0     0.0     0.0     1.     0.0     0.0     0.    255
ET    0.      0.0     0.0     0.0     0.0    7.11  230.00  400.00   0.0     0.0    260

X1   0.21     20.    300.    320.     1.      1.      1.     0.0     0.0     0.    265
GR 2725.0      35.   2718.6    35.  2718.4    45.  2715.5    50.  2718.2    52.   270
GR 2717.6      90.   2716.6   127.  2716.6   160.  2730.0   160.  2730.0   210.   275
GR 2716.9     210.   2717.0   257.  2714.7   300.  2711.0   306.  2710.5   310.   280
GR 2711.0     315.   2714.8   320.  2717.2   400.  2718.7   598.  2720.0   620.   285
ET    0.      0.0     0.0     0.0     0.0    7.11  230.00  400.00   0.0     0.0    290

X1   0.21      0.     0.      0.     10.     10.     10.     0.0     0.0     0.    295
NC  0.120    0.120  0.050     0.0     0.0                                          300
ET    0.      0.0     0.0     0.0     0.0    7.11  230.00  400.00   0.0     0.0    305

X1   0.25      0.     0.      0.    130.     80.     80.     0.0     3.50    0.    310
ET    0.      0.0     0.0     0.0     0.0    7.11  230.00  400.00   0.0     0.0    315

X1   0.25      0.     0.      0.     40.     40.     40.     0.0     0.0     0.    320
ET    0.      0.0     0.0     0.0     0.0    7.11  200.00  370.00   0.0     0.0    325

X1   0.25     75.    220.    329.     1.      1.      1.     0.0     0.0     0.    330
BT   14.0     55.0  2723.7     0.0   55.0  2723.7  2721.3  103.0  2723.3  2720.8   335
BT  103.0   2723.3     0.0   125.0  2723.0     0.0  150.0  2722.5     0.0   180.0   340
BT 2722.0      0.0   204.0  2721.7     0.0   220.0  2721.5     0.0   220.0  2721.5   345
BT 2719.1    329.0  2720.0  2717.7   329.0  2720.0     0.0   350.0  2719.6     0.0   350
BT  388.0   2719.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0   355
GR 2750.0      55.   2718.5    55.  2718.4    60.  2718.6    66.  2721.2    66.   360
GR 2721.1      67.   2718.7    67.  2719.5    78.  2721.0    78.  2721.0    79.   365
GR 2719.5      79.   2719.5    91.  2721.0    91.  2721.0    92.  2719.5    92.   370
GR 2720.0     103.   2723.3   103.  2723.2   115.  2723.0   125.  2722.5   150.   375
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C01

GR	2722.0	180.	2721.4	204.	2721.5	220.	2717.5	220.	2715.7	229.	380
GR	2719.0	229.	2719.0	230.	2715.8	230.	2716.0	241.	2719.0	241.	385
GR	2718.9	242.	2716.0	242.	2715.8	250.	2715.8	253.	2718.8	253.	390
GR	2718.7	254.	2715.8	254.	2716.0	259.	2715.8	268.	2718.4	268.	395
GR	2718.4	269.	2715.8	269.	2715.7	282.	2718.3	282.	2718.2	283.	400
GR	2715.7	283.	2715.7	293.	2715.1	296.	2718.0	296.	2718.0	297.	405
GR	2715.0	297.	2715.0	303.	2714.5	303.	2714.2	309.	2718.0	309.	410
GR	2718.0	310.	2714.3	310.	2714.0	312.	2714.1	315.	2715.0	318.	415
GR	2715.0	320.	2717.9	320.	2717.8	321.	2715.0	321.	2716.5	329.	420
GR	2720.0	329.	2717.5	350.	2718.5	355.	2718.0	370.	2718.2	372.	425
GR	2718.5	386.	2719.0	388.	2719.0	392.	2718.3	397.	2718.2	405.	430
ET	0.	0.0	0.0	0.0	0.0	7.11	200.00	370.00	0.0	0.0	435
X1	0.25	0.	0.	0.	30.	30.	30.	0.0	0.0	0.	440
X2	0.	0.0	0.	0.0	0.0	0.0	1.	0.0	0.0	0.	445
ET	0.	0.0	0.0	0.0	0.0	7.11	200.00	370.00	0.0	0.0	450
X1	0.25	38.	220.	329.	1.	1.	1.	0.0	0.0	0.	455
GR	2718.5	55.	2718.4	60.	2719.5	78.	2719.5	92.	2720.0	103.	460
GR	2720.2	104.	2720.3	110.	2721.0	120.	2721.1	122.	2721.4	145.	465
GR	2720.0	173.	2720.0	187.	2717.5	220.	2715.7	229.	2716.0	241.	470
GR	2715.8	250.	2715.8	253.	2716.0	259.	2715.8	268.	2715.7	282.	475
GR	2715.7	293.	2715.0	303.	2714.5	303.	2714.2	309.	2714.0	312.	480
GR	2714.1	315.	2715.0	318.	2715.0	320.	2716.5	329.	2717.5	350.	485
GR	2718.5	355.	2718.0	370.	2718.2	372.	2718.5	386.	2719.0	388.	490
GR	2719.0	392.	2718.3	397.	2718.2	405.	0.0	0.	0.0	0.	495
NC	0.100	0.100	0.050	0.0	0.0						500
ET	0.	0.0	0.0	0.0	0.0	7.11	180.00	350.00	0.0	0.0	505
X1	0.26	16.	305.	345.	25.	25.	25.	0.0	0.0	0.	510
GR	2721.0	150.	2720.0	185.	2718.0	188.	2718.0	192.	2719.2	196.	515
GR	2719.0	305.	2717.5	315.	2715.5	325.	2715.5	335.	2716.0	338.	520
GR	2717.9	345.	2718.5	386.	2719.0	387.	2719.0	395.	2718.3	400.	525
GR	2718.3	405.	0.0	0.	0.0	0.	0.0	0.	0.0	0.	530
NC	0.080	0.080	0.050	0.0	0.0						535
QT	5.	900.	1600.	1900.	2900.	1900.	0.	0.	0.	0.	540
ET	0.	0.0	0.0	0.0	0.0	7.11	200.00	350.00	0.0	0.0	545
X1	0.30	20.	240.	273.	200.	200.	200.	0.0	-2.50	0.	550
GR	2727.8	80.	2727.0	105.	2724.3	150.	2723.3	200.	2724.0	230.	555
GR	2727.3	240.	2721.8	253.	2721.3	257.	2721.3	258.	2721.4	263.	560
GR	2725.7	273.	2724.8	275.	2724.6	292.	2725.5	300.	2725.5	310.	565
GR	2740.0	310.	2740.0	350.	2724.3	350.	2724.8	390.	2740.0	390.	570
NC	0.080	0.080	0.045	0.0	0.0						575
QT	5.	900.	1600.	1900.	2895.	1900.	0.	0.	0.	0.	580
ET	0.	0.0	0.0	0.0	0.0	7.11	200.00	350.00	0.0	0.0	585
X1	0.34	19.	240.	273.	210.	210.	210.	0.0	0.0	0.	590
GR	2727.2	115.	2727.1	130.	2724.4	150.	2723.3	200.	2724.0	230.	595
GR	2727.5	240.	2721.8	253.	2721.2	257.	2721.4	263.	2721.8	265.	600
GR	2725.8	273.	2724.8	275.	2724.5	300.	2724.3	350.	2725.8	458.	605
GR	2726.0	462.	2726.0	485.	2726.4	489.	2727.8	543.	0.0	0.	610
NC	0.100	0.110	0.040	0.0	0.0						615
QT	5.	895.	1595.	1895.	2890.	1895.	0.	0.	0.	0.	620
ET	0.	0.0	0.0	0.0	0.0	7.11	300.00	500.00	0.0	0.0	625

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X1   0.43     19.    380.    400.    540.    540.    540.     0.0     0.0      0.   630
GR 2762.0      0.  2762.0    100.  2762.0    250.  2732.7    250.  2734.5    370.   635
GR 2733.5    380.  2730.5    380.  2730.1    389.  2730.5    399.  2733.5    400.   640
GR 2733.8    423.  2734.0    440.  2733.5    460.  2734.4    500.  2734.8    525.   645
GR 2736.0    575.  2734.8    581.  2736.5    700.  2737.1    800.     0.0      0.   650
NC   0.100  0.070   0.040     0.0     0.0                                          655
QT       5.   895.   1595.   1890.   2890.   1890.      0.      0.      0.      0.   660
ET       0.   0.0     0.0     0.0     0.0    7.11   200.00  500.00     0.0     0.0  665

X1   0.46     19.    380.    400.    180.    180.    180.     0.0    1.00      0.   670
GR 2770.0      0.  2732.7      0.  2732.5    235.  2732.7    250.  2734.5    370.   675
GR 2733.5    380.  2730.5    380.  2730.1    389.  2730.5    399.  2733.5    400.   680
GR 2733.8    423.  2734.0    440.  2733.5    460.  2734.4    500.  2734.8    525.   685
GR 2736.0    575.  2734.8    581.  2736.5    700.  2737.1    800.     0.0      0.   690
QT       5.   895.   1595.   1890.   2885.   1890.      0.      0.      0.      0.   695
ET       0.   0.0     0.0     0.0     0.0    7.11   150.00  410.00     0.0     0.0  700

X1   0.48     16.    301.    317.     40.     40.     40.     0.0     0.0      0.   705
GR 2736.7    100.  2736.4    150.  2736.4    200.  2736.7    250.  2736.8    280.   710
GR 2737.0    301.  2733.3    302.  2733.2    305.  2733.5    312.  2733.9    317.   715
GR 2737.0    317.  2736.7    413.  2736.3    478.  2736.6    478.  2737.0    512.   720
GR 2737.5    800.     0.0      0.     0.0      0.     0.0      0.     0.0      0.   725
ET       0.   0.0     0.0     0.0     0.0    7.11   150.00  410.00     0.0     0.0  730

X1   0.48      0.      0.      0.     40.     40.     40.     0.0     0.0      0.   735
ET       0.   0.0     0.0     0.0     0.0    7.11   150.00  410.00     0.0     0.0  740

X1   0.48     16.    301.    317.      1.      1.      1.     0.0     0.0      0.   745
BT   14.0   100.0  2736.7     0.0   150.0  2736.4     0.0   200.0  2736.4     0.0   750
BT  250.0  2737.4     0.0   300.0  2738.3     0.0   302.0  2738.3     0.0   302.0  755
BT 2738.3  2737.9   317.0  2738.3  2737.9   317.0  2738.3     0.0   413.0  2736.7  760
BT    0.0   478.0  2736.3     0.0   478.0  2736.6     0.0   512.0  2737.0     0.0  765
BT  800.0  2737.5     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0  770
GR 2736.7    100.  2736.4    150.  2736.4    200.  2737.4    250.  2738.3    300.   775
GR 2737.9    301.  2733.3    302.  2733.2    305.  2733.5    312.  2738.3    317.   780
GR 2738.3    317.  2736.7    413.  2736.3    478.  2736.6    478.  2737.0    512.   785
GR 2737.5    800.     0.0      0.     0.0      0.     0.0      0.     0.0      0.   790
ET       0.   0.0     0.0     0.0     0.0    7.11   150.00  410.00     0.0     0.0  795

X1   0.48      0.      0.      0.     30.     30.     30.     0.0     0.0      0.   800
X2       0.   0.0     0.      0.0     0.0     0.0      1.     0.0     0.0      0.   805
ET       0.   0.0     0.0     0.0     0.0    7.11   150.00  410.00     0.0     0.0  810

X1   0.48     16.    301.    317.      1.      1.      1.     0.0     0.0      0.   815
GR 2736.7    100.  2736.4    150.  2736.4    200.  2736.7    250.  2736.8    280.   820
GR 2737.0    301.  2733.3    302.  2733.2    305.  2733.5    312.  2733.9    317.   825
GR 2737.0    317.  2736.7    413.  2736.3    478.  2736.6    478.  2737.0    512.   830
GR 2737.5    800.     0.0      0.     0.0      0.     0.0      0.     0.0      0.   835
ET       0.   0.0     0.0     0.0     0.0    7.11   150.00  410.00     0.0     0.0  840

X1   0.48      0.      0.      0.     10.     10.     10.     0.0     0.0      0.   845
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E01

NC	0.090	0.060	0.045	0.0	0.0						850
QT	5.	895.	1590.	1890.	2885.	1890.	0.	0.	0.	0.	855
ET	0.	0.0	0.0	0.0	0.0	7.11	290.00	550.00	0.0	0.0	860
X1	0.51	10.	347.	363.	130.	130.	130.	0.0	0.0	0.	865
GR	2750.0	285.	2740.2	300.	2739.4	347.	2737.0	350.	2736.0	352.	870
GR	2737.0	361.	2739.2	363.	2740.0	578.	2741.9	604.	2749.2	615.	875
ET	0.	0.0	0.0	0.0	0.0	7.11	290.00	550.00	0.0	0.0	880
X1	0.51	0.	0.	0.	40.	40.	40.	0.0	0.0	0.	885
ET	0.	0.0	0.0	0.0	0.0	7.11	290.00	550.00	0.0	0.0	890
X1	0.51	22.	330.	362.	1.	1.	1.	0.0	0.0	0.	895
BT	6.0	300.0	2746.0	0.0	330.0	2745.2	0.0	330.0	2745.2	2741.0	900
BT	362.0	2744.4	2742.0	362.0	2744.4	0.0	450.0	2741.8	0.0	0.0	905
GR	2746.6	255.	2746.0	300.	2745.2	330.	2737.5	330.	2737.0	332.	910
GR	2738.0	340.	2741.3	340.	2741.3	341.	2738.0	341.	2738.3	345.	915
GR	2737.5	351.	2741.7	351.	2741.7	352.	2737.5	352.	2737.0	355.	920
GR	2737.5	362.	2744.3	362.	2741.8	450.	2739.8	512.	2740.0	578.	925
GR	2741.9	604.	2749.2	615.	0.0	0.	0.0	0.	0.0	0.	930
ET	0.	0.0	0.0	0.0	0.0	7.11	290.00	550.00	0.0	0.0	935
X1	0.54	0.	0.	0.	180.	50.	180.	0.0	0.0	0.	940
X2	0.	0.0	0.	0.0	0.0	0.0	1.	0.0	0.0	0.	945
ET	0.	0.0	0.0	0.0	0.0	7.11	290.00	550.00	0.0	0.0	950
X1	0.54	20.	347.	364.	1.	1.	1.	0.0	0.0	0.	955
GR	2750.0	267.	2741.2	287.	2741.2	300.	2740.6	347.	2737.0	353.	960
GR	2737.4	355.	2737.4	357.	2738.0	361.	2740.3	364.	2742.0	482.	965
GR	2741.2	512.	2741.7	515.	2741.7	520.	2741.7	525.	2740.8	537.	970
GR	2740.3	537.	2740.3	570.	2740.9	570.	2740.9	575.	2741.8	603.	975
ET	0.	0.0	0.0	0.0	0.0	7.11	290.00	550.00	0.0	0.0	980
X1	0.54	0.	0.	0.	30.	30.	30.	0.0	0.0	0.	985
NC	0.100	0.100	0.045	0.0	0.0						990
QT	5.	890.	1590.	1885.	2875.	1885.	0.	0.	0.	0.	995
ET	0.	0.0	0.0	0.0	0.0	7.11	40.00	410.00	0.0	0.0	1000
X1	0.61	22.	200.	225.	300.	300.	300.	0.0	0.0	0.	1005
GR	2746.5	0.	2745.7	47.	2745.7	128.	2746.3	150.	2746.3	175.	1010
GR	2744.8	200.	2740.8	208.	2740.3	211.	2740.8	217.	2746.8	225.	1015
GR	2746.8	253.	2747.0	259.	2746.1	285.	2755.0	285.	2755.0	335.	1020
GR	2745.2	335.	2744.3	370.	2744.7	415.	2744.9	465.	2743.9	505.	1025
GR	2744.5	518.	2760.0	550.	0.0	0.	0.0	0.	0.0	0.	1030
ET	0.	0.0	0.0	0.0	0.0	7.11	40.00	410.00	0.0	0.0	1035
X1	0.61	24.	200.	225.	40.	40.	40.	0.0	0.0	0.	1040
GR	2746.5	0.	2745.7	47.	2745.7	128.	2746.3	150.	2746.3	175.	1045
GR	2744.8	200.	2743.0	204.	2742.3	205.	2742.0	208.	2742.0	212.	1050
GR	2742.3	212.	2743.3	220.	2746.8	225.	2746.8	253.	2747.0	259.	1055
GR	2746.1	285.	2755.0	285.	2755.0	335.	2745.2	335.	2744.3	370.	1060
GR	2744.7	415.	2744.9	465.	2743.9	505.	2744.5	518.	0.0	0.	1065

F01

F01

```
ET     0.    0.0     0.0     0.0     0.0    7.11   40.00  410.00    0.0     0.0   1070

X1   0.61     25.    204.    221.      1.      1.      1.    0.0     0.0      0.   1075
BT    6.0   197.0  2746.5     0.0   204.0  2746.7     0.0   204.0  2747.5  2745.5  1080
BT  221.0  2747.8  2746.0   221.0  2747.0     0.0   230.0  2747.2     0.0     0.0  1085
GR 2746.5     0.  2745.7      47.  2745.7     128.  2746.3     150.  2746.5     197.  1090
GR 2746.7     204.  2743.0     204.  2742.4     205.  2742.0     208.  2742.0     212.  1095
GR 2742.3     212.  2743.0     218.  2746.0     221.  2747.0     221.  2747.2     230.  1100
GR 2747.0     258.  2746.1     285.  2755.0     285.  2755.0     335.  2745.2     335.  1105
GR 2744.3     370.  2744.7     415.  2744.9     465.  2743.9     505.  2744.5     578.  1110
ET     0.    0.0     0.0     0.0     0.0    7.11   40.00  410.00    0.0     0.0   1115

X1   0.61      0.      0.      0.     30.     30.     30.    0.0     0.0      0.   1120
X2      0.    0.0      0.    0.0     0.0     0.0      1.    0.0     0.0      0.   1125
ET     0.    0.0     0.0     0.0     0.0    7.11   40.00  410.00    0.0     0.0   1130

X1   0.61     24.    200.    225.      1.      1.      1.    0.0     0.0      0.   1135
GR 2746.5      0.  2745.7      47.  2745.7     128.  2746.3     150.  2746.3     175.  1140
GR 2744.8     200.  2743.0     204.  2742.3     205.  2742.0     208.  2742.0     212.  1145
GR 2742.3     212.  2743.3     220.  2746.8     225.  2746.8     253.  2747.0     259.  1150
GR 2746.1     285.  2755.0     285.  2755.0     335.  2745.2     335.  2744.3     370.  1155
GR 2744.7     415.  2744.9     465.  2743.9     505.  2744.5     518.    0.0       0.  1160
ET     0.    0.0     0.0     0.0     0.0    7.11   40.00  410.00    0.0     0.0   1165

X1   0.61      0.      0.      0.     10.     10.     10.    0.0     0.0      0.   1170
NC  0.120   0.110   0.060     0.0     0.0                                          1175
QT      5.    890.   1585.   1880.   2865.   1880.      0.      0.      0.      0.  1180
ET     0.    0.0     0.0     0.0     0.0    7.11  450.00  670.00    0.0     0.0   1185

X1   0.74     21.    505.    542.    570.    570.    570.    0.0     0.0      0.   1190
GR 2759.8      0.  2758.9     100.  2758.5     200.  2758.3     300.  2758.5     400.  1195
GR 2758.7     460.  2756.5     505.  2752.5     505.  2751.8     508.  2751.8     512.  1200
GR 2751.3     515.  2751.5     520.  2752.5     520.  2756.5     542.  2756.8     550.  1205
GR 2774.0     550.  2774.0     580.  2757.6     580.  2758.0     600.  2756.6     700.  1210
GR 2760.0    1015.     0.0       0.     0.0       0.     0.0       0.     0.0       0.  1215
ET     0.    0.0     0.0     0.0     0.0    7.11  450.00  670.00    0.0     0.0   1220

X1   0.74      0.      0.      0.     40.     40.     40.    0.0     0.0      0.   1225
SB   1.25    1.60    3.00      0.   15.00    0.01  130.00    2.10  2751.5  2751.5  1230
ET     0.    0.0     0.0     0.0     0.0    7.11  450.00  670.00    0.0     0.0   1235

X1   0.74      0.      0.      0.     30.     30.     30.    0.0     0.0      0.   1240
X2      0.    0.0      1.  2756.6  2756.5     0.0      0.    0.0     0.0      0.   1245
BT   17.0     0.0  2759.8     0.0   100.0  2758.9     0.0   200.0  2758.5     0.0  1250
BT  300.0  2758.3     0.0   400.0  2758.5     0.0   460.0  2758.7     0.0   505.0  1255
BT 2758.8     0.0   505.0  2762.3     0.0   543.0  2762.3     0.0   543.0  2758.7  1260
BT    0.0   550.0  2758.7     0.0   550.0  2774.0     0.0   580.0  2774.0     0.0  1265
BT  580.0  2758.2     0.0   600.0  2758.0     0.0   700.0  2756.6     0.0  1015.0  1270
BT 2760.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0  1275
NC  0.110   0.100   0.050     0.0     0.0                                          1280
ET     0.    0.0     0.0     0.0     0.0    7.11  450.00  670.00    0.0     0.0   1285
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G01

G01

```
X1   0.74     0.     0.     0.    10.    10.    10.    0.0    0.0     0.   1290
NC  0.100   0.100  0.045    0.0    0.0                                      1295
QT       5.   885.  1580.  1875.  2860.  1875.     0.     0.     0.     0.  1300
ET       0.   0.0    0.0    0.0    0.0   7.11  165.00 390.00   0.0    0.0  1305

X1   0.80    35.   250.   275.   300.   300.   300.    0.0  -1.00     0.   1310
GR 2760.8    25.  2760.5   58.  2760.3   60.  2759.5   81.  2759.9  110.  1315
GR 2760.0   150.  2760.8  180.  2760.8  185.  2770.0  185.  2770.0  215.  1320
GR 2760.8   215.  2760.4  225.  2759.4  240.  2759.2  250.  2756.5  257.  1325
GR 2756.0   262.  2755.8  268.  2756.5  272.  2759.6  275.  2759.7  285.  1330
GR 2770.0   285.  2770.0  315.  2760.3  315.  2760.5  322.  2760.3  330.  1335
GR 2770.0   330.  2770.0  360.  2759.7  360.  2759.5  375.  2760.2  392.  1340
GR 2759.8   421.  2759.4  471.  2759.0  492.  2760.3  508.  2760.3  530.  1345
ET       0.   0.0    0.0    0.0    0.0   7.11  165.00 390.00   0.0    0.0  1350

X1   0.80     0.     0.     0.    40.    40.    40.    0.0    0.0     0.   1355
SB   1.25   1.60   3.00     0.  11.00   0.01  55.00   0.50 2754.8 2754.8  1360
ET       0.   0.0    0.0    0.0    0.0   7.11  165.00 390.00   0.0    0.0  1365

X1   0.80     0.     0.     0.    30.    30.    30.    0.0    0.0     0.   1370
X2       0.   0.0    1.  2759.0 2759.0   0.0     0.    0.0    0.0     0.   1375
BT    24.0   30.0 2760.8    0.0   58.0 2760.8    0.0   61.0 2760.5    0.0  1380
BT    90.0 2760.0    0.0  118.0 2760.3    0.0  130.0 2760.0    0.0  150.0  1385
BT  2760.0    0.0  180.0 2760.8    0.0  215.0 2760.8    0.0  231.0 2760.0  1390
BT     0.0  250.0 2760.2    0.0  250.0 2761.5    0.0  253.0 2761.5 2759.0  1395
BT   269.0 2761.6 2759.0  269.0 2761.2    0.0  285.0 2760.0    0.0  323.0  1400
BT  2760.5    0.0  375.0 2759.4    0.0  392.0 2760.2    0.0  421.0 2759.8  1405
BT     0.0  471.0 2759.4    0.0  492.0 2759.0    0.0  508.0 2760.3    0.0  1410
BT   530.0 2760.3    0.0    0.0    0.0   0.0     0.0    0.0    0.0    0.0  1415
ET       0.   0.0    0.0    0.0    0.0   7.11  165.00 390.00   0.0    0.0  1420

X1   0.80    32.   250.   272.    30.    30.    30.    0.0    0.0     0.   1425
GR 2760.8    25.  2760.5   58.  2760.3   60.  2759.5   81.  2759.9  110.  1430
GR 2760.0   150.  2760.8  180.  2760.8  185.  2770.0  185.  2770.0  215.  1435
GR 2760.8   215.  2760.4  225.  2759.4  240.  2759.2  250.  2756.5  257.  1440
GR 2756.0   262.  2755.8  268.  2756.5  272.  2759.6  275.  2760.1  297.  1445
GR 2760.5   322.  2760.3  330.  2770.0  330.  2770.0  360.  2759.7  360.  1450
GR 2759.5   375.  2760.2  392.  2759.8  421.  2759.4  471.  2759.0  492.  1455
GR 2760.3   508.  2760.3  530.    0.0    0.    0.0     0.    0.0     0.   1460
NC  0.100  0.060  0.040    0.0    0.0                                      1465
QT       5.   885.  1575.  1865.  2850.  1865.     0.     0.     0.     0.  1470
ET       0.   0.0    0.0    0.0    0.0   7.11  150.00 370.00   0.0    0.0  1475

X1   0.98    15.   246.   274.   900.   900.   900.    0.0    0.0     0.   1480
GR 2780.0     0.  2773.0    0.  2773.2    40.  2773.8   135.  2773.7  157.  1485
GR 2773.9   180.  2774.3  205.  2773.4  246.  2771.5  252.  2768.5  267.  1490
GR 2773.5   274.  2773.8  410.  2774.8  575.  2776.2  650.  2780.0  668.  1495
ET       0.   0.0    0.0    0.0    0.0   7.11  150.00 370.00   0.0    0.0  1500

X1   0.98     0.     0.     0.    40.    40.    40.    0.0    0.0     0.   1505
ET       0.   0.0    0.0    0.0    0.0   7.11  150.00 370.00   0.0    0.0  1510

X1   0.98    26.   25?.   269.     1.     1.     1.    0.0    0.0     0.   1515
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```
BT   11.0  210.0 2774.2    0.0  250.0 2774.9    0.0  250.0 2775.6    0.0 1520
BT  254.0 2775.6 2771.5  256.0 2775.6 2772.9  261.0 2775.6 2774.4  264.0 1525
BT 2775.6 2773.0  267.0 2775.6 2772.0  269.0 2775.6 2770.0  269.0 2774.7 1530
BT    0.0  284.0 2774.4    0.0    0.0    0.0    0.0    0.0    0.0    0.0 1535
GR 2780.0    0. 2773.0    0. 2773.2   40. 2773.8  135. 2773.7  157. 1540
GR 2773.9  180. 2774.3  205. 2774.2  210. 2774.9  250. 2774.8  254. 1545
GR 2770.4  254. 2770.2  256. 2769.5  261. 2768.9  264. 2768.5  267. 1550
GR 2770.0  269. 2774.7  269. 2774.4  284. 2774.9  284. 2774.2  305. 1555
GR 2774.0  369. 2773.7  372. 2773.8  410. 2774.8  575. 2776.2  650. 1560
GR 2780.0  668.    0.0    0.    0.0    0.    0.0    0.    0.0    0. 1565
ET    0.   0.0    0.0    0.0   0.0   7.11 150.00 370.00   0.0   0.0 1570

X1  0.98    0.    0.    0.   30.   30.   30.   0.0   0.0    0. 1575
X2    0.   0.0    0.   0.0   0.0  0.0    1.   0.0   0.0    0. 1580
ET    0.   0.0   0.0   0.0   0.0  7.11 150.00 370.00   0.0   0.0 1585

X1  0.98   10.  246.  274.   20.   20.   20.   0.0   0.0    0. 1590
GR 2780.0   0. 2775.0    0. 2775.0  180. 2773.4  246. 2771.5  253. 1595
GR 2768.5  267. 2773.5  274. 2773.8  410. 2774.8  575. 2776.2  650. 1600
ET    0.   0.0   0.0   0.0   0.0  7.11 150.00 370.00   0.0   0.0 1605

X1  0.98   17.  250.  281.   20.   20.   20.   0.0   0.0    0. 1610
GR 2780.0   0. 2775.0    0. 2775.0  180. 2773.4  246. 2773.2  250. 1615
GR 2771.5  260. 2771.2  264. 2771.3  269. 2771.9  272. 2774.9  281. 1620
GR 2774.4  316. 2774.8  350. 2774.7  400. 2775.1  500. 2776.2  600. 1625
GR 2776.2  650. 2780.0  668.   0.0    0.   0.0    0.   0.0    0. 1630
NC 0.085 0.085 0.045   0.0   0.0                                  1635
QT    5.  600. 1100. 1300. 2000. 1300.    0.    0.    0.    0. 1640
ET    0.   0.0   0.0   0.0   0.0  7.11 330.00 640.00   0.0   0.0 1645

X1  1.19   26.  511.  531.  1100. 1100. 1100.   0.0   0.0    0. 1650
GR 2792.0   0. 2791.0  100. 2790.5  200. 2791.6  300. 2791.5  330. 1655
GR 2804.0  330. 2804.0  370. 2791.5  370. 2792.5  400. 2792.1  440. 1660
GR 2790.4  445. 2790.3  450. 2791.5  500. 2791.7  511. 2787.0  511. 1665
GR 2786.0  520. 2787.0  526. 2791.6  531. 2791.5  550. 2810.0  550. 1670
GR 2810.0  640. 2791.5  640. 2791.6  700. 2792.5  800. 2796.2  890. 1675
GR 2799.5  965.   0.0    0.   0.0    0.   0.0    0.   0.0    0. 1680
ET    0.   0.0   0.0   0.0   0.0  7.11 330.00 640.00   0.0   0.0 1685

X1  1.19    0.    0.    0.   40.   40.   40.   0.0   0.0    0. 1690
SB  1.25  1.60  3.00    0.  6.00  0.01 27,00   0.0 2787.3 2787.3 1695
ET    0.   0.0   0.0   0.0   0.0  7.11 330.00 640.00   0.0   0.0 1700

X1  1.19   23.  511.  531.   30.   30.   30.   0.0   0.0    0. 1705
X2    0.   0.0    1. 2791.8 2791.8  0.0    0.   0.0   0.0    0. 1710
BT   20.0   0.0 2792,0   0,0  50.0 2791,8   0.0 200.0 2791,8   0.0 1715
BT  300.0 2791.8   0.0 330.0 2791.8   0.0 330.0 2804.0   0.0 370.0 1720
BT 2804.0   0.0 370.0 2791.8   0.0 400.0 2792.5   0.0 440.0 2792.1 1725
BT    0,0 445.0 2791,8   0,0 450.0 2791,8   0.0 500.0 2791,8   0.0 1730
BT  520.0 2791.9   0.0 526.0 2791.8   0.0 535.0 2791.8   0.0 700.0 1735
BT 2791.8   0.0 800.0 2792.5   0.0 890.0 2796.2   0.0 965.0 2799.5 1740
BT    0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0 1745
GR 2792.0   0. 2791.0  100. 2790.5  200. 2791.6  300. 2791.5  330. 1750
GR 2804.0  330. 2804.0  370. 2791.5  370. 2792.5  400. 2792.1  440. 1755
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GR 2790.4   445.  2790.3   450.  2791.5   500.  2791.7   511.  2787.0   511.  1760
GR 2786.0   520.  2787.0   526.  2791.6   531.  2791.5   600.  2791.6   700.  1765
GR 2792.5   800.  2796.2   890.  2799.5   965.     0.0      0.     0.0      0.  1770
ET     0.   0.0     0.0   0.0     0.0  7.11  330.00  640.00   0.0      0.0   1775

X1   1.19     0.     0.     0.    10.    10.    10.   0.0   0.0      0.     1780
NC  0.100  0.100  0.040   0.0   0.0                                          1785
QT      5.   600.  1100.  1300.  2000.  1300.     0.     0.     0.      0.  1790
ET     0.   0.0     0.0   0.0     0.0  7.11  260.00  350.00   0.0      0.0   1795

X1   1.30    21.   300.   318.   480.   480.   480.   0.0   0.0      0.     1800
GR 2800.5    21.  2800.5    65.  2801.0   129.  2800.5   132.  2800.4   181.  1805
GR 2799.9   263.  2800.1   286.  2800.2   300.  2797.0   304.  2796.3   309.  1810
GR 2797.0   313.  2799.0   318.  2798.0   340.  2800.1   400.  2799.8   429.  1815
GR 2800.7   457.  2801.4   479.  2801.8   505.  2801.8   546.  2802.4   568.  1820
GR 2805.3   600.     0.0     0.     0.0     0.     0.0     0.     0.0      0.  1825
ET     0.   0.0     0.0   0.0     0.0  7.11  260.00  350.00   0.0      0.0   1830

X1   1.30     0.     0.     0.    40.    40.    40.   0.0   0.0      0.     1835
SB   1.25   1.60   3.00     0.   5.00  0.01   38.00  1.90  2796.3   2796.3  1840
ET     0.   0.0     0.0   0.0     0.0  7.11  260.00  350.00   0.0      0.0   1845

X1   1.30     0.     0.     0.    30.    30.    30.   0.0   0.0      0.     1850
X2     0.   0.0      1.  2799.7  2801.0   0.0     0.     0.0   0.0      0.  1855
BT   9.0    0.0  2803.0    0.0   200.0  2801.6    0.0  268.0  2801.0    0.0  1860
BT 300.0 2801.1    0.0   300.0  2802.0    0.0  321.0  2802.3    0.0   321.0  1865
BT 2801.3    0.0  400.0  2801.8    0.0   700.0  2806.8    0.0   0.0      0.0  1870
ET     0.   0.0     0.0   0.0     0.0  7.11  260.00  350.00   0.0      0.0   1875

X1   1.30     0.     0.     0.    10.    10.    10.   0.0   0.0      0.     1880
ED                                                                          1885
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*PROF 1

CCHV= 0.100 CEHV= 0.500
*SECNO .050
2096 WSEL NOT GIVEN,AVG OF MAX,MIN USED

3265 DIVIDED FLOW

BROWNING BRANCH			100 YEAR FLOOD		08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
0.05	1900.	292.	965.	643.	0.47	0	319.	
2705.94	0.0	158.	129.	318.	0.50	0	2701.00	
7.44	0.0	1.85	7.45	2.02	0.0	2706.40	2701.50	
0.005032	0.0	0.100	0.045	0.070	0.0	-0.00	170.00	
	2698.50	0.	0.	0.	100.	256.	526.01	0.

*SECNO .140

3265 DIVIDED FLOW

3280 CROSS SECTION 0.14 EXTENDED 0.68 FEET

BROWNING BRANCH			100 YEAR FLOOD		08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

0.14	1900.	556.	549.	795.	0.64	12	266.	
2710.98	2710.98	137.	53.	224.	0.18	16	2708.70	
5.48	0.0	4.05	10.42	3.54	3.88	2711.62	2709.20	
0.018015	0.045	0.070	0.045	0.070	0.09	-0.00	119.65	
	2705.50	450.	450.	450.	204.	171.	495.00	5.

*SECNO .180

0.18	1900.	194.	688.	1018.	0.41	3	331.	
2714.18	0.0	98.	88.	369.	-0.23	0	2712.60	
5.58	0.0	1.98	7.77	2.76	2.94	2714.58	2712.80	
0.009263	0.045	0.090	0.045	0.070	0.02	-0.00	230.00	
	2708.60	250.	230.	230.	81.	250.	560.91	0.

*SECNO .210

3265 DIVIDED FLOW

BROWNING BRANCH			100 YEAR FLOOD		08/01/81		
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID

ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
3685 20 TRIALS ATTEMPTED WSEL,CWSEL								
3693 PROBABLE MINIMUM SPECIFIC ENERGY								
3720 CRITICAL DEPTH ASSUMED								
0.21	1900.	372.	1079.	449.	0.77	20	365.	
2717.84	2717.84	204.	118.	174.	0.36	11	2714.70	
7.34	0.0	1.83	9.12	2.59	0.94	2718.60	2714.80	
0.008273	0.044	0.090	0.045	0.070	0.18	-0.00	45.97	
	2710.50	150.	100.	100.	264.	174.	483.92	9.
*SECNO .210								
*** GR CARDS REPEATED								
3265 DIVIDED FLOW								
BROWNING BRANCH			100 YEAR FLOOD		08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
0.21	1900.	498.	822.	580.	0.28	3	493.	
2718.57	0.0	349.	133.	328.	-0.49	0	2714.70	
8.07	0.0	1.43	6.18	1.77	0.20	2718.85	2714.80	
0.003260	0.044	0.090	0.045	0.070	0.05	-0.00	36.93	
	2710.50	40.	40.	40.	273.	270.	579.73	10.
*SECNO .210								
3265 DIVIDED FLOW								
3370 NORMAL BRIDGE,NRD= 6 MIN ELTRD= 2717.00 MAX ELLC= 2716.10								
0.21	1900.	782.	564.	554.	0.18	2	512.	
2718.69	0.0	308.	113.	240.	-0.10	0	2717.90	
8.19	0.0	2.54	4.97	2.31	0.01	2718.86	2717.90	
0.013523	0.044	0.090	0.045	0.070	0.01	-36.00	35.00	
	2710.50	1.	1.	1.	275.	297.	596.78	10.
*SECNO .210								
*** GR CARDS REPEATED								
3265 DIVIDED FLOW								
3370 NORMAL BRIDGE,NRD= 6 MIN ELTRD= 2717.00 MAX ELLC= 2716.10								
0.21	1900.	779.	463.	657.	0.11	2	517.	
2718.96	0.0	366.	119.	316.	-0.07	0	2717.90	

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    8.46       0.0       2.13       3.90       2.08       0.20    2719.07    2717.90
0.007807      0.044      0.090      0.045      0.070       0.01     -36.00      35.00
              2710.50      20.        20.        20.        275.      292.     602.48        10.

*SECNO .210

3265 DIVIDED FLOW

    0.21      1900.       537.       714.       649.       0.17          2       517.
 2718.94       0.0        429.       140.       431.       0.06          0    2714.70
    8.44       0.0        1.25       5.08       1.51       0.00    2719.11    2714.80
0.002048      0.044      0.090      0.045      0.070       0.03     -0.00      35.00
              2710.50       1.         1.         1.        275.      292.     602.01        10.

*SECNO .210

*** GR CARDS REPEATED

3265 DIVIDED FLOW

    0.21      1900.       539.       707.       654.       0.16          2       517.
 2718.96       0.0        435.       141.       439.      -0.01          0    2714.70
    8.46       0.0        1.24       5.01       1.49       0.02    2719.13    2714.80
0.001984      0.044      0.090      0.045      0.070       0.00     -0.00      35.00
              2710.50      10.        10.        10.        275.      292.     602.46        10.

*SECNO .250

*** GR CARDS REPEATED

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

    BROWNING BRANCH              100 YEAR FLOOD       08/01/81
   MILE       Q          QLOB       QCH        QROB       HV         ITRIAL     TOPWID
   ELEV       CRIWS      ALOB       ACH        AROB       DHV        IDC        BANK ELEV
   DEPTH      WSELK      VLOB       VCH        VROB       HL         EG      LEFT/RIGHT
   SLOPE      WTN        XNL        XNCH       XNR        OLOSS      CORAR      SSTA
              ELMIN      XLOBL      XLCH       XLOBR      WSDL       WSDR       ENDST       VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    0.25      1900.       385.      1160.       355.       0.88         20       396.
 2721.50    2721.50       233.       122.       201.       0.72          9    2718.20
    7.50       0.0        1.65       9.54       1.76       0.36    2722.38    2718.30
0.010802      0.044      0.120      0.050      0.120       0.36     -0.00      45.70
              2714.00      130.        80.        80.        264.      195.     504.99        12.


*SECNO .250

*** GR CARDS REPEATED

3265 DIVIDED FLOW
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3301 HV CHANGED MORE THAN HVINS

0.25	1900.	531.	873.	496.	0.29	3	516.	
2722.38	0.0	417.	139.	415.	-0.59	0	2718.20	
8.38	0.0	1.27	6.27	1.19	0.24	2722.68	2718.30	
0.003891	0.044	0.120	0.050	0.120	0.06	-0.00	35.00	
	2714.00	40.	40.	40.	275.	291.	601.03	13.

*SECNO .250

3265 DIVIDED FLOW

3280 CROSS SECTION 0.25 EXTENDED 4.41 FEET

3370 NORMAL BRIDGE,NRD= 14 MIN ELTRD= 2719.00 MAX ELLC= 2721.30

0.25	1900.	103.	1306.	491.	0.09	2	309.	
2722.61	0.0	130.	488.	248.	-0.20	0	2721.50	
8.61	0.0	0.79	2.67	1.98	0.00	2722.70	2720.00	
0.005607	0.044	0.120	0.050	0.120	0.02	-399.89	55.00	
	2714.00	1.	1.	1.	220.	131.	405.00	13.

*SECNO .250

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3280 CROSS SECTION 0.25 EXTENDED 4.58 FEET

3370 NORMAL BRIDGE,NRD= 14 MIN ELTRD= 2719.00 MAX ELLC= 2721.30

0.25	1900.	110.	1293.	497.	0.08	2	317.	
2722.78	0.0	143.	506.	261.	-0.01	0	2721.50	
8.78	0.0	0.77	2.55	1.91	0.16	2722.86	2720.00	
0.004875	0.044	0.120	0.050	0.120	0.00	-467.66	55.00	
	2714.00	30.	30.	30.	220.	131.	405.00	14.

*SECNO .250

3280 CROSS SECTION 0.25 EXTENDED 4.62 FEET

0.25	1900.	216.	1468.	217.	0.04	2	350.	
2722.82	0.0	485.	786.	368.	-0.04	0	2717.50	
8.82	0.0	0.44	1.87	0.59	0.00	2722.87	2716.50	
0.000286	0.044	0.120	0.050	0.120	0.00	-0.00	55.00	
	2714.00	1.	1.	1.	220.	131.	405.00	14.

*SECNO .260

3280 CROSS SECTION 0.26 EXTENDED 4.51 FEET

BROWNING BRANCH 100 YEAR FLOOD 08/01/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
0.26	1900.	658.	866.	376.	0.10	2	255.	
2722.81	0.0	532.	244.	267.	0.06	0	2719.00	
7.31	0.0	1.24	3.55	1.41	0.01	2722.91	2717.90	
0.001307	0.044	0.100	0.050	0.100	0.03	-0.00	150.00	
	2715.50	25.	25.	25.	175.	80.	405.00	14.

*SECNO .300

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

BROWNING BRANCH 100 YEAR FLOOD 08/01/81

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

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

0.30	1900.	855.	803.	243.	0.76	3	216.	
2723.27	2723.27	185.	84.	77.	0.66	14	2724.80	
4.47	0.0	4.61	9.52	3.16	0.70	2724.03	2723.20	
0.027104	0.045	0.080	0.050	0.080	0.33	-0.00	125.46	
	2718.80	200.	200.	200.	131.	134.	390.00	18.

*SECNO .340

3265 DIVIDED FLOW

3301 HV CHANGFD MORE THAN HVINS

0.34	1900.	650.	624.	627.	0.24	4	348.	
2726.39	0.0	233.	105.	303.	-0.52	0	2727.50	
5.19	0.0	2.79	5.96	2.07	2.55	2726.64	2725.80	
0.006856	0.045	0.080	0.045	0.080	0.05	-0.00	135.22	
	2721.20	210.	210.	210.	121.	232.	488.95	20.

*SECNO .430

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

BROWNING BRANCH		100 YEAR FLOOD		08/01/81				
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
3685 20 TRIALS ATTEMPTED WSEL,CWSEL								
3693 PROBABLE MINIMUM SPECIFIC ENERGY								
3720 CRITICAL DEPTH ASSUMED								
0.43	1895.	541.	993.	361.	0.81	20	352.	
2735.46	2735.46	237.	101.	209.	0.57	8	2733.50	
5.36	0.0	2.28	9.79	1.72	4.59	2736.27	2733.50	
0.010826	0.044	0.100	0.040	0.110	0.28	-0.00	250.00	
	2730.10	540.	540.	540.	140.	237.	626.94	27.
*SECNO .460								
3265 DIVIDED FLOW								
3301 HV CHANGED MORE THAN HVINS								
0.46	1890.	1201.	390.	299.	0.06	3	643.	
2736.81	0.0	1087.	109.	289.	-0.76	0	2734.50	
5.71	0.0	1.10	3.59	1.04	0.53	2736.87	2734.50	
0.001332	0.043	0.100	0.040	0.070	0.08	-0.00	0.0	
	2731.10	180.	180.	180.	390.	262.	651.96	32.
*SECNO .480								
3280 CROSS SECTION		0.48 EXTENDED		1.12 FEET				
BROWNING BRANCH		100 YEAR FLOOD		08/01/81				
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
3685 20 TRIALS ATTEMPTED WSEL,CWSEL								
3693 PROBABLE MINIMUM SPECIFIC ENERGY								
3720 CRITICAL DEPTH ASSUMED								
0.48	1890.	480.	600.	810.	0.43	20	700.	
2737.82	2737.82	250.	68.	379.	0.37	13	2737.00	
4.62	0.0	1.92	8.79	2.14	0.12	2738.25	2737.00	
0.012314	0.043	0.100	0.040	0.070	0.18	0.0	100.00	
	2733.20	40.	40.	40.	209.	491.	800.00	33.
*SECNO .480								
*** GR CARDS REPEATED								
3280 CROSS SECTION		0.48 EXTENDED		1.71 FEET				
0.48	1890.	474.	390.	1027.	0.11	2	700.	
2738.41	0.0	367.	78.	661.	-0.32	0	2737.00	

5.21	0.0	1.29	5.02	1.55	0.23	2738.51	2737.00	
0.003383	0.043	0.100	0.040	0.070	0.03	-0.00	100.00	
	2733.20	40.	40.	40.	209.	491.	800.00	33.

*SECNO .480
3280 CROSS SECTION 0.48 EXTENDED 1.76 FEET

3370 NORMAL BRIDGE,NRD= 14 MIN ELTRD= 2736.30 MAX ELLC= 2737.90

0.48	1890.	491.	178.	1221.	0.06	2	700.	
2738.46	0.0	307.	58.	624.	-0.05	0	2737.90	
5.26	0.0	1.60	3.05	1.96	0.00	2738.52	2738.30	
0.005701	0.043	0.100	0.040	0.070	0.00	-8.83	100.00	
	2733.20	1.	1.	1.	209.	491.	800.00	33.

*SECNO .480

*** GR CARDS REPEATED
3280 CROSS SECTION 0.48 EXTENDED 1.92 FEET

3370 NORMAL BRIDGE,NRD= 14 MIN ELTRD= 2736.30 MAX ELLC= 2737.90

0.48	1890.	483.	162.	1245.	0.05	2	700.	
2738.62	0.0	339.	61.	700.	-0.01	0	2737.90	
5.42	0.0	1.42	2.66	1.78	0.14	2738.67	2738.30	
0.004092	0.043	0.100	0.040	0.070	0.00	-8.83	100.00	
	2733.20	30.	30.	30.	209.	491.	800.00	34.

*SECNO .480
3280 CROSS SECTION 0.48 EXTENDED 1.91 FEET

0.48	1890.	470.	347.	1073.	0.07	1	700.	
2738.61	0.0	409.	81.	762.	0.02	0	2737.00	
5.41	0.0	1.15	4.28	1.41	0.00	2738.68	2737.00	
0.002330	0.043	0.100	0.040	0.070	0.01	-0.00	100.00	
	2733.20	1.	1.	1.	209.	491.	800.00	34.

*SECNO .480

*** GR CARDS REPEATED
3280 CROSS SECTION 0.48 EXTENDED 1.94 FEET

BROWNING BRANCH 100 YEAR FLOOD 08/01/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
0.48	1890.	470.	342.	1078.	0.07	0	700.	

2738.63	0.0	414.	81.	773.	-0.00	0	2737.00	
5.43	0.0	1.13	4.21	1.39	0.02	2738.70	2737.00	
0.002235	0.043	0.100	0.040	0.070	0.00	0.0	100.00	
	2733.20	10.	10.	10.	209.	491.	800.00	34.

*SECNO .510

3301 HV CHANGED MORE THAN HVINS

BROWNING BRANCH			100 YEAR FLOOD		08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

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

0.51	1890.	128.	610.	1152.	0.61	20	292.	
2740.97	2740.97	55.	63.	300.	0.54	9	2739.40	
4.97	0.0	2.32	9.65	3.84	0.62	2741.58	2739.20	
0.016148	0.043	0.090	0.045	0.060	0.27	0.0	298.83	
	2736.00	130.	130.	130.	56.	236.	591.23	37.

*SECNO .510

*** GR CARDS REPEATED

0.51	1890.	158.	434.	1297.	0.20	2	304.	
2741.73	0.0	93.	75.	479.	-0.41	0	2739.40	
5.73	0.0	1.71	5.76	2.71	0.31	2741.93	2739.20	
0.004547	0.043	0.090	0.045	0.060	0.04	-0.00	297.66	
	2736.00	40.	40.	40.	57.	247.	601.67	37.

*SECNO .510

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

BROWNING BRANCH			100 YEAR FLOOD		08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3370 NORMAL BRIDGE,NRD= 6 MIN ELTRD= 2741.80 MAX ELLC= 2742.00

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

0.51	1890.	0.	933.	957.	0.76	3	171.
2741.52	2741.52	0.	115.	169.	0.56	6	2745.20
4.52	0.0	0.0	8.15	5.66	0.01	2742.28	2744.30
0.036255	0.043	0.090	0.045	0.060	0.28	-4.36	330.00

2737.00 1. 1. 1. 16. 253. 598.83 37.

*SECNO .540

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3370 NORMAL BRIDGE,NRD= 6 MIN ELTRD= 2741.80 MAX ELLC= 2742.00

0.54	1890.	0.	328.	1562.	0.17	4	237.	
2743.19	0.0	0.	118.	460.	-0.59	0	2745.20	
6.19	0.0	0.0	2.78	3.40	1.02	2743.36	2744.30	
0.005170	0.045	0.090	0.045	0.060	0.06	-55.68	330.00	
	2737.00	180.	180.	50.	16.	260.	605.96	38.

*SECNO .540
3280 CROSS SECTION 0.54 EXTENDED 1.40 FEET

BROWNING BRANCH 100 YEAR FLOOD 08/01/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
0.54	1890.	233.	454.	1203.	0.17	1	321.	
2743.19	0.0	139.	84.	493.	0.00	0	2740.60	
6.19	0.0	1.68	5.39	2.44	0.00	2743.37	2740.30	
0.003619	0.045	0.090	0.045	0.060	0.00	-0.00	282.45	
	2737.00	1.	1.	1.	73.	248.	603.00	38.

*SECNO .540

*** GR CARDS REPEATED
3280 CROSS SECTION 0.54 EXTENDED 1.52 FEET

0.54	1890.	235.	436.	1219.	0.15	0	321.	
2743.32	0.0	147.	86.	523.	-0.02	0	2740.60	
6.32	0.0	1.60	5.05	2.33	0.10	2743.47	2740.30	
0.003079	0.045	0.090	0.045	0.060	0.00	-0.00	282.17	
	2737.00	30.	30.	30.	73.	248.	603.00	39.

*SECNO .610

3265 DIVIDED FLOW

BROWNING BRANCH 100 YEAR FLOOD 08/01/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV

DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
3685 20 TRIALS ATTEMPTED WSEL,CWSEL								
3693 PROBABLE MINIMUM SPECIFIC ENERGY								
3720 CRITICAL DEPTH ASSUMED								
0.61	1885.	146.	893.	846.	0.58	20	421.	
2746.48	2746.48	119.	104.	352.	0.43	6	2744.80	
6.18	0.0	1.23	8.57	2.40	1.60	2747.06	2746.80	
0.011365	0.045	0.100	0.045	0.100	0.22	-0.00	1.43	
	2740.30	300.	300.	300.	211.	310.	522.08	43.
*SECNO .610								
3265 DIVIDED FLOW								
3280 CROSS SECTION	0.61 EXTENDED	2.72 FEET						
0.61	1885.	347.	561.	976.	0.18	2	468.	
2747.21	0.0	267.	100.	512.	-0.40	0	2744.80	
5.21	0.0	1.30	5.61	1.91	0.29	2747.39	2746.80	
0.005054	0.045	0.100	0.045	0.100	0.04	-0.00	0.0	
	2742.00	40.	40.	40.	213.	306.	518.00	44.
*SECNO .610								
3265 DIVIDED FLOW								
3280 CROSS SECTION	0.61 EXTENDED	2.85 FEET						
3370 NORMAL BRIDGE,NRD= 6 MIN ELTRD= 2746.50 MAX ELLC= 2746.00								
0.61	1885.	339.	131.	1415.	0.06	2	528.	
2747.35	0.0	272.	51.	726.	-0.12	0	2746.70	
5.35	0.0	1.25	2.57	1.95	0.00	2747.41	2747.00	
0.004571	0.045	0.100	0.045	0.100	0.01	-27.22	0.0	
	2742.00	1.	1.	1.	213.	366.	578.00	44.
*SECNO .610								
*** GR CARDS REPEATED								
3265 DIVIDED FLOW								
3280 CROSS SECTION	0.61 EXTENDED	2.99 FEET						

BROWNING BRANCH			100 YEAR FLOOD		08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3370 NORMAL BRIDGE,NRD= 6 MIN ELTRD= 2746.50 MAX ELLC= 2746.00

0.61	1885.	363.	119.	1403.	0.05	1	528.	
2747.48	0.0	300.	51.	768.	-0.01	0	2746.70	
5.48	0.0	1.21	2.34	1.83	0.12	2747.53	2747.00	
0.003811	0.045	0.100	0.045	0.100	0.00	-29.57	0.0	
	2742.00	30.	30.	30.	213.	366.	578.00	45.

*SECNO .610

3265 DIVIDED FLOW

3280 CROSS SECTION 0.61 EXTENDED 2.94 FEET

0.61	1885.	385.	528.	972.	0.14	2	468.	
2747.44	0.0	312.	106.	567.	0.09	0	2744.80	
5.44	0.0	1.23	5.00	1.71	0.00	2747.58	2746.80	
0.003724	0.045	0.100	0.045	0.100	0.04	-0.00	0.0	
	2742.00	1.	1.	1.	213.	306.	518.00	45.

*SECNO .610

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3280 CROSS SECTION 0.61 EXTENDED 2.98 FEET

0.61	1885.	390.	523.	971.	0.13	0	468.	
2747.48	0.0	319.	107.	576.	-0.01	0	2744.80	
5.48	0.0	1.22	4.91	1.69	0.04	2747.62	2746.80	
0.003548	0.045	0.100	0.045	0.100	0.00	0.0	0.0	
	2742.00	10.	10.	10.	213.	306.	518.00	45.

*SECNO .740

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

BROWNING BRANCH			100 YEAR FLOOD		08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

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

0.74	1880.	42.	1480.	357.	0.84	20	349.
2758.20	2758.20	30.	179.	230.	0.71	12	2756.50

6.90	0.0	1.42	8.26	1.55	3.76	2759.05	2756.50	
0.016294	0.047	0.120	0.060	0.110	0.36	-0.00	470.13	
	2751.30	570.	570.	570.	53.	325.	848.68	55.

*SECNO .740

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

0.74	1880.	237.	1010.	633.	0.19	3	846.	
2759.21	0.0	328.	216.	555.	-0.65	0	2756.50	
7.91	0.0	0.72	4.66	1.14	0.29	2759.40	2756.50	
0.004046	0.047	0.120	0.060	0.110	0.07	-0.00	65.61	
	2751.30	40.	40.	40.	458.	418.	941.76	55.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	15.00	0.01	130.00	2.10
	ELCHU	ELCHD						
	2751.50	2751.50						

*SECNO .740

*** GR CARDS REPEATED
PRESS FLOW BECAUSE EGLWC OF 2759.40 EXCEEDS 1.5 DEPTH
6870 D.S. ENERGY OF 2759.40 HIGHER THAN COMPUTED ENERGY OF 2759.31

3265 DIVIDED FLOW

BROWNING BRANCH			100 YEAR FLOOD		08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2764.41	2759.40	0.00	1617.	263.	130.	131.	2756.60

ELTRD
2756.50

0.74	1880.	238.	1008.	634.	0.19	2	847.	
2759.21	0.0	329.	217.	556.	-0.00	0	2756.50	
7.91	0.0	0.72	4.66	1.14	0.0	2759.40	2756.50	
0.004028	0.047	0.120	0.060	0.110	0.0	-0.00	65.26	
	2751.30	30.	30.	30.	458.	419.	942.05	56.

*SECNO .740

*** GR CARDS REPEATED

3265 DIVIDED FLOW

0.74	1880.	234.	1036.	610.	0.20	1	854.	
2759.24	0.0	344.	218.	569.	0.01	0	2756.50	
7.94	0.0	0.68	4.75	1.07	0.03	2759.44	2756.50	
0.002895	0.047	0.110	0.050	0.100	0.01	-0.00	61.58	
	2751.30	10.	10.	10.	462.	422.	945.12	56.

*SECNO .800

3265 DIVIDED FLOW

3280 CROSS SECTION 0.80 EXTENDED 1.14 FEET

0.80	1875.	419.	872.	584.	0.44	2	415.	
2760.44	0.0	258.	116.	323.	0.24	0	2758.20	
5.64	0.0	1.62	7.54	1.81	1.32	2760.87	2758.60	
0.007458	0.047	0.100	0.045	0.100	0.12	-0.00	25.00	
	2754.80	300.	300.	300.	238.	268.	530.00	63.

*SECNO .800

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3280 CROSS SECTION 0.80 EXTENDED 1.58 FEET

0.80	1875.	489.	754.	632.	0.24	2	415.	
2760.87	0.0	344.	127.	408.	-0.19	0	2758.20	
6.07	0.0	1.42	5.95	1.55	0.22	2761.11	2758.60	
0.004118	0.047	0.100	0.045	0.100	0.02	-0.00	25.00	
	2754.80	40.	40.	40.	238.	268.	530.00	63.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	11.00	0.01	55.00	0.50
	ELCHU	ELCHD						
	2754.80	2754.80						

*SECNO .800

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3280 CROSS SECTION 0.80 EXTENDED 1.77 FEET

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2789.74	2761.11	0.00	1663.	217.	55.	55.	2759.00

ELTRD
2759.00

0.80	1875.	513.	714.	647.	0.19	2	415.	
2761.06	0.0	380.	131.	445.	-0.05	0	2758.20	
6.26	0.0	1.35	5.44	1.46	0.15	2761.26	2758.60	
0.003278	0.047	0.100	0.045	0.100	0.0	-0.00	25.00	
	2754.80	30.	30.	30.	238.	268.	530.00	64.

*SECNO .800

3265 DIVIDED FLOW

3280 CROSS SECTION 0.80 EXTENDED 0.95 FEET

BROWNING BRANCH 100 YEAR FLOOD 08/01/81

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

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

0.80	1875.	372.	884.	619.	0.58	20	445.	
2761.25	2761.25	222.	101.	329.	0.39	9	2759.20	
5.45	0.0	1.68	8.72	1.88	0.16	2761.84	2756.50	
0.009424	0.047	0.100	0.045	0.100	0.19	0.0	25.00	
	2755.80	30.	30.	30.	236.	269.	530.00	64.

*SECNO .980

BROWNING BRANCH 100 YEAR FLOOD 08/01/81

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

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

0.98	1865.	459.	893.	513.	0.49	16	577.	
2774.83	2774.83	301.	114.	248.	-0.10	12	2773.40	
6.33	0.0	1.52	7.87	2.07	7.63	2775.32	2773.50	
0.007671	0.046	0.100	0.040	0.060	0.01	0.0	0.0	
	2768.50	900.	900.	900.	260.	317.	576.53	78.

*SECNO .980

*** GR CARDS REPEATED

0.98	1865.	503.	676.	686.	0.18	3	604.	
2775.35	0.0	429.	128.	412.	-0.31	0	2773.40	
6.85	0.0	1.17	5.28	1.66	0.18	2775.53	2773.50	
0.002938	0.046	0.100	0.040	0.060	0.03	-0.00	0.0	
	2768.50	40.	40.	40.	260.	344.	604.33	79.

*SECNO .980

3370 NORMAL BRIDGE,NRD= 11 MIN ELTRD= 2774.20 MAX ELLC= 2774.40

0.98	1865.	764.	202.	898.	0.09	2	610.	
2775.45	0.0	432.	51.	392.	-0.09	0	2774.80	
6.95	0.0	1.77	3.95	2.29	0.01	2775.54	2774.70	
0.006463	0.046	0.100	0.040	0.060	0.01	-41.02	0.0	
	2768.50	1.	1.	1.	262.	349.	610.13	79.

*SECNO .980

*** GR CARDS REPEATED

3370 NORMAL BRIDGE,NRD= 11 MIN ELTRD= 2774.20 MAX ELLC= 2774.40

0.98	1865.	763.	137.	965.	0.06	3	620.	
2775.64	0.0	479.	52.	457.	-0.03	0	2774.80	
7.14	0.0	1.59	2.64	2.11	0.16	2775.70	2774.70	
0.004626	0.046	0.100	0.040	0.060	0.00	-43.76	0.0	
	2768.50	30.	30.	30.	262.	359.	620.27	79.

*SECNO .980

BROWNING BRANCH			100 YEAR FLOOD		08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
0.98	1865.	169.	734.	962.	0.21	2	620.	
2775.64	0.0	211.	134.	512.	0.15	0	2773.40	
7.14	0.0	0.80	5.49	1.88	0.07	2775.85	2773.50	
0.002992	0.046	0.100	0.040	0.060	0.08	-0.00	0.0	
	2768.50	20.	20.	20.	260.	360.	620.13	80.

*SECNO .980

BROWNING BRANCH			100 YEAR FLOOD		08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

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

0.98	1865.	415.	866.	584.	0.48	20	567.	
2775.84	2775.84	270.	111.	258.	0.26	17	2773.20	
4.64	0.0	1.54	7.84	2.27	0.09	2776.32	2774.90	

0.008412	0.046	0.100	0.040	0.060	0.13	-0.00	0.0	
	2771.20	20.	20.	20.	266.	302.	567.39	80.

*SECNO 1.190

3265 DIVIDED FLOW

3280 CROSS SECTION 1.19 EXTENDED 0.02 FEET

BROWNING BRANCH 100 YEAR FLOOD 08/01/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
7185 MINIMUM SPECIFIC ENERGY								
3720 CRITICAL DEPTH ASSUMED								
1.19	1300.	581.	678.	41.	0.42	15	562.	
2792.02	2792.02	369.	96.	47.	-0.06	12	2791.70	
6.02	0.0	1.58	7.03	0.87	9.13	2792.44	2791.60	
0.008145	0.045	0.085	0.045	0.085	0.01	-0.00	0.0	
	2786.00	1100.	1100.	1100.	521.	226.	747.02	95.

*SECNO 1.190

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3280 CROSS SECTION 1.19 EXTENDED 0.53 FEET

1.19	1300.	715.	485.	100.	0.13	2	671.	
2792.52	0.0	592.	107.	125.	-0.28	0	2791.70	
6.52	0.0	1.21	4.55	0.80	0.19	2792.65	2791.60	
0.002993	0.045	0.085	0.045	0.085	0.03	-0.00	0.0	
	2786.00	40.	40.	40.	521.	280.	800.69	95.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	6.00	0.01	27.00	0.0
	ELCHU	ELCHD						
	2787.30	2787.30						

*SECNO 1.190

3265 DIVIDED FLOW

3280 CROSS SECTION 1.19 EXTENDED 0.56 FEET

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2850.12	2792.66	0.00	1235.	65.	27.	27.	2791.80

ELTRD
2791.80

1.19	1300.	676.	445.	179.	0.10	2	762.	
2792.56	0.0	609.	107.	223.	-0.03	0	2791.70	
6.56	0.0	1.11	4.15	0.80	0.01	2792.66	2791.60	
0.002463	0.045	0.085	0.045	0.085	0.0	-0.00	0.0	
	2786.00	30.	30.	30.	521.	281.	801.54	96.

*SECNO 1.190

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3280 CROSS SECTION 1.19 EXTENDED 0.59 FEET

BROWNING BRANCH 100 YEAR FLOOD 08/01/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
1.19	1300.	679.	438.	183.	0.10	0	762.	
2792.59	0.0	621.	108.	230.	-0.01	0	2791.70	
6.59	0.0	1.09	4.06	0.80	0.02	2792.69	2791.60	
0.002345	0.045	0.085	0.045	0.085	0.00	0.0	0.0	
	2786.00	10.	10.	10.	521.	281.	802.16	96.

*SECNO 1.300

3265 DIVIDED FLOW

3280 CROSS SECTION 1.30 EXTENDED 0.48 FEET

BROWNING BRANCH 100 YEAR FLOOD 08/01/81

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

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

1.30	1300.	207.	563.	530.	0.57	20	441.	
2800.98	2800.98	164.	63.	221.	0.47	13	2800.20	
4.68	0.0	1.27	8.88	2.39	2.16	2801.55	2799.00	
0.011984	0.045	0.100	0.040	0.100	0.24	-0.00	21.00	
	2796.30	480.	480.	480.	238.	157.	465.68	104.

*SECNO 1.300

*** GR CARDS REPEATED
3280 CROSS SECTION 1.30 EXTENDED 1.17 FEET

1.30	1300.	377.	411.	512.	0.16	2	475.	
2801.66	0.0	356.	76.	332.	-0.41	0	2800.20	
5.36	0.0	1.06	5.43	1.54	0.24	2801.82	2799.00	
0.003526	0.045	0.100	0.040	0.100	0.04	-0.00	21.00	
	2796.30	40.	40.	40.	288.	187.	496.24	104.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	5.00	0.01	38.00	1.90

ELCHU	ELCHD
2796.30	2796.30

*SECNO 1.300

*** GR CARDS REPEATED
3280 CROSS SECTION 1.30 EXTENDED 2.13 FEET

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2830.74	2801.82	0.00	1058.	243.	38.	39.	2799.70

ELTRD
2801.00

1.30	1300.	490.	300.	510.	0.05	2	550.	
2802.63	0.0	625.	93.	558.	-0.12	0	2800.20	
6.33	0.0	0.78	3.22	0.91	0.85	2802.68	2799.00	
0.000943	0.045	0.100	0.040	0.100	0.0	-0.00	21.00	
	2796.30	30.	30.	30.	288.	262.	570.54	105.

*SECNO 1.300

*** GR CARDS REPEATED
3280 CROSS SECTION 1.30 EXTENDED 2.15 FEET

1.30	1300.	491.	299.	510.	0.05	1	550.	
2802.64	0.0	630.	93.	562.	-0.00	0	2800.20	
6.34	0.0	0.78	3.20	0.91	0.01	2802.69	2799.00	
0.000925	0.045	0.100	0.040	0.100	0.00	-0.00	21.00	
	2796.30	10.	10.	10.	288.	262.	570.72	105.

B03

THIS RUN EXECUTED 08/01/81 8:20:21

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**************************************************
  HEC2 RELEASE DATED NOV 76 UPDATED JULY1979
  ERROR CORR - 01,02,03
  MODIFICATION - 50,51,52,53,54
**************************************************

T1      WAYNESVILLE NC                                                  1890
T2      100 YEAR FLOODWAY                                               1895
T3      BROWNING BRANCH                                                 1900

J1  ICHECK     INQ    NINV    IDIR    STRT  METRIC   HVINS     Q      WSEL     FQ
          0.      6.      0.      0. 0.00500      0.     0.0      0.     0.0     0.0  1905

J2  NPROF   IPLOT   PRFVS   XSECV   XSECH      FN   ALLDC     IBW  CHNIM ITRACE
         15.     0.     -1.     0.      0.     0.0     0.0     0.      0.      0.  1910
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*PROF 2

CCHV= 0.100 CEHV= 0.500
*SECNO .050
2096 WSEL NOT GIVEN,AVG OF MAX,MIN USED
3280 CROSS SECTION 0.05 EXTENDED 0.72 FEET

BROWNING BRANCH			100 YEAR FLOODWA		08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
3470 ENCROACHMENT STATIONS=			230.0	360.0	TYPE= 1	TARGET=	130.000	
0.05	1900.	318.	1161.	422.	0.65	0	130.	
2706.72	0.0	124.	145.	157.	0.50	0	2701.00	
8.22	2705.94	2.57	8.00	2.69	0.0	2707.37	2701.50	
0.004974	0.0	0.100	0.045	0.070	0.0	-0.00	230.00	
	2698.50	0.	0.	0.	40.	90.	360.00	0.

*SECNO .140
3280 CROSS SECTION 0.14 EXTENDED 1.14 FEET

3301 HV CHANGED MORE THAN HVINS

BROWNING BRANCH			100 YEAR FLOODWA		08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=			290.0	400.0	TYPE= 1	TARGET=	110.000	
0.14	1900.	465.	712.	723.	1.15	11	110.	
2711.44	2711.44	78.	58.	145.	0.51	13	2708.70	
5.94	2710.98	5.93	12.25	5.00	4.10	2712.59	2709.20	
0.021803	0.045	0.070	0.045	0.070	0.25	-0.00	290.00	
	2705.50	450.	450.	450.	34.	76.	400.00	4.

*SECNO .180

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS=			230.0	400.0	TYPE= 1	TARGET=	170.000
0.18	1900.	397.	877.	627.	0.56	3	170.
2715.03	0.0	157.	106.	188.	-0.59	0	2712.60
6.43	2714.18	2.52	8.25	3.34	2.95	2715.60	2712.80
0.008165	0.045	0.090	0.045	0.070	0.06	-0.00	230.00

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        2708.60     250.     230.     230.      81.      89.   400.00        6.

*SECNO .210

3301 HV CHANGED MORE THAN HVINS

    BROWNING BRANCH                 100 YEAR FLOODWA     08/01/81
   MILE       Q         QLOB       QCH       QROB       HV        ITRIAL     TOPWID
   ELEV       CRIWS     ALOB       ACH       AROB       DHV       IDC        BANK ELEV
   DEPTH      WSELK     VLOB       VCH       VROB       HL        EG      LEFT/RIGHT
   SLOPE      WTN       XNL        XNCH      XNR        OLOSS     CORAR      SSTA
              ELMIN     XLOBL      XLCH      XLOBR      WSDL      WSDR       ENDST      VOL

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

3470 ENCROACHMENT STATIONS=     230.0     400.0  TYPE=     1  TARGET=     170.000
      0.21     1900.      249.     1198.      453.      1.07        20       170.
   2717.78  2717.78       105.      117.      142.      0.51         8   2714.70
      7.28  2717.84      2.38     10.22      3.18      1.00   2718.85   2714.80
 0.010530    0.044     0.090     0.045     0.070      0.25     -0.00    230.00
           2710.50       150.      100.      100.       80.        90.   400.00        7.

*SECNO .210

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

    BROWNING BRANCH                 100 YEAR FLOODWA     08/01/81
   MILE       Q         QLOB       QCH       QROB       HV        ITRIAL     TOPWID
   ELEV       CRIWS     ALOB       ACH       AROB       DHV       IDC        BANK ELEV
   DEPTH      WSELK     VLOB       VCH       VROB       HL        EG      LEFT/RIGHT
   SLOPE      WTN       XNL        XNCH      XNR        OLOSS     CORAR      SSTA
              ELMIN     XLOBL      XLCH      XLOBR      WSDL      WSDR       ENDST      VOL

3470 ENCROACHMENT STATIONS=     230.0     400.0  TYPE=     1  TARGET=     170.000
      0.21     1900.      338.      984.      579.      0.47         3       170.
   2718.70      0.0       169.      136.      216.     -0.60         0   2714.70
      8.20  2718.57      2.00      7.26      2.68      0.26   2719.17   2714.80
 0.004375    0.044     0.090     0.045     0.070      0.06     -0.00    230.00
           2710.50        40.       40.       40.       80.        90.   400.00        7.

*SECNO .210
      3700.  BRIDGE STENCL=     230.00    STENCR=     400.00
    BROWNING BRANCH                 100 YEAR FLOODWA     08/01/81
   MILE       Q         QLOB       QCH       QROB       HV        ITRIAL     TOPWID
   ELEV       CRIWS     ALOB       ACH       AROB       DHV       IDC        BANK ELEV
   DEPTH      WSELK     VLOB       VCH       VROB       HL        EG      LEFT/RIGHT
   SLOPE      WTN       XNL        XNCH      XNR        OLOSS     CORAR      SSTA
              ELMIN     XLOBL      XLCH      XLOBR      WSDL      WSDR       ENDST      VOL

3370 NORMAL BRIDGE,NRD=  6 MIN ELTRD= 2717.00 MAX ELLC= 2716.10
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3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     230.0     400.0  TYPE=     1  TARGET=     170.000
      0.21     1900.      436.     1006.      458.      0.80        20      170.
   2718.70  2718.70       101.      114.       94.      0.33         9   2717.90
      8.20  2718.69      4.32      8.85      4.87      0.01   2719.50   2717.90
 0.042751    0.044     0.090     0.045     0.070      0.17    -36.00    230.00
           2710.50        1.        1.        1.      80.        90.    400.00       7.

*SECNO .210

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

3370 NORMAL BRIDGE,NRD=  6 MIN ELTRD= 2717.00 MAX ELLC= 2716.10

3470 ENCROACHMENT STATIONS=     230.0     400.0  TYPE=     1  TARGET=     170.000
      0.21     1900.      542.      698.      660.      0.28         2      170.
   2719.69      0.0       170.      133.      173.     -0.52         0   2717.90
      9.19  2718.96      3.19      5.23      3.82      0.41   2719.97   2717.90
 0.012073    0.044     0.090     0.045     0.070      0.05    -36.00    230.00
           2710.50       20.       20.       20.      80.        90.    400.00       7.

*SECNO .210

3470 ENCROACHMENT STATIONS=     230.0     400.0  TYPE=     1  TARGET=     170.000
      0.21     1900.      403.      834.      663.      0.23         2      170.
   2719.75      0.0       243.      157.      300.     -0.05         0   2714.70
      9.25  2718.94      1.66      5.32      2.21      0.00   2719.98   2714.80
 0.001942    0.044     0.090     0.045     0.070      0.01     -0.00    230.00
           2710.50        1.        1.        1.      80.        90.    400.00       7.

*SECNO .210

*** GR CARDS REPEATED

3470 ENCROACHMENT STATIONS=     230.0     400.0  TYPE=     1  TARGET=     170.000
      0.21     1900.      404.      832.      664.      0.23         2      170.
   2719.77      0.0       244.      157.      302.     -0.00         0   2714.70
      9.27  2718.96      1.65      5.29      2.20      0.02   2720.00   2714.80
 0.001913    0.044     0.090     0.045     0.070      0.00     -0.00    230.00
           2710.50       10.       10.       10.      80.        90.    400.00       7.

*SECNO .250

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

    BROWNING BRANCH                100 YEAR FLOODWA     08/01/81
    MILE      Q          QLOB      QCH       QROB      HV          ITRIAL     TOPWID
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     ELEV      CRIWS     ALOB      ACH       AROB      DHV       IDC       BANK ELEV
     DEPTH     WSELK     VLOB      VCH       VROB      HL        EG      LEFT/RIGHT
     SLOPE     WTN       XNL       XNCH      XNR       OLOSS     CORAR     SSTA
               ELMIN     XLOBL     XLCH      XLOBR     WSDL      WSDR      ENDST      VOL

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

3470 ENCROACHMENT STATIONS=      230.0     400.0  TYPE=      1  TARGET=     170.000
        0.25      1900.       266.      1265.      368.      1.12        20       170.
     2721.58   2721.58       126.       123.      166.      0.89        14   2718.20
        7.58   2721.50        2.12      10.27      2.22      0.35   2722.69   2718.30
   0.012299     0.044       0.120      0.050     0.120      0.44     -0.00    230.00
              2714.00       130.       80.       80.       80.       90.      400.00      9.

*SECNO .250

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS


3470 ENCROACHMENT STATIONS=      230.0     400.0  TYPE=      1  TARGET=     170.000
        0.25      1900.       352.      1085.      462.      0.54         3       170.
     2722.53       0.0        192.       142.      242.     -0.58         0   2718.20
        8.53   2722.38        1.84       7.63      1.91      0.32   2723.07   2718.30
   0.005608     0.044       0.120      0.050     0.120      0.06     -0.00    230.00
              2714.00        40.       40.       40.       80.       90.      400.00      9.

*SECNO .250
     3700.   BRIDGE STENCL=     200.00    STENCR=     370.00
3280 CROSS SECTION      0.25 EXTENDED       4.80 FEET


3370 NORMAL BRIDGE,NRD= 14 MIN ELTRD= 2719.00 MAX ELLC= 2721.30


3470 ENCROACHMENT STATIONS=      200.0     370.0  TYPE=      1  TARGET=     170.000
        0.25      1900.        34.      1541.      325.      0.12        10       170.
     2723.00       0.0         29.       531.      153.     -0.42         0   2721.50
        9.00   2722.61        1.20       2.90      2.13      0.01   2723.12   2720.00
   0.005918     0.044       0.120      0.050     0.120      0.04   -288.76    200.00
              2714.00         1.        1.        1.        75.       95.      370.00      9.

*SECNO .250

*** GR CARDS REPEATED
3280 CROSS SECTION      0.25 EXTENDED       4.97 FEET


3370 NORMAL BRIDGE,NRD= 14 MIN ELTRD= 2719.00 MAX ELLC= 2721.30


3470 ENCROACHMENT STATIONS=      200.0     370.0  TYPE=      1  TARGET=     170.000
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G03

0.25	1900.	39.	1533.	328.	0.11	0	170.	
2723.17	0.0	32.	549.	160.	-0.01	0	2721.50	
9.17	2722.78	1.21	2.79	2.05	0.17	2723.28	2720.00	
0.005221	0.044	0.120	0.050	0.120	0.00	-288.76	200.00	
	2714.00	30.	30.	30.	75.	95.	370.00	10.

*SECNO .250
3280 CROSS SECTION 0.25 EXTENDED 5.03 FEET

3470 ENCROACHMENT STATIONS= 200.0 370.0 TYPE= 1 TARGET= 170.000

0.25	1900.	56.	1690.	154.	0.06	2	170.	
2723.23	0.0	100.	831.	232.	-0.05	0	2717.50	
9.23	2722.82	0.56	2.03	0.66	0.00	2723.29	2716.50	
0.000316	0.044	0.120	0.050	0.120	0.01	-0.00	200.00	
	2714.00	1.	1.	1.	75.	95.	370.00	10.

*SECNO .260
3280 CROSS SECTION 0.26 EXTENDED 4.89 FEET

BROWNING BRANCH 100 YEAR FLOODWA 08/01/81

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

3470 ENCROACHMENT STATIONS= 180.0 350.0 TYPE= 1 TARGET= 170.000

0.26	1900.	790.	1080.	30.	0.17	2	170.	
2723.19	0.0	513.	259.	26.	0.11	0	2719.00	
7.69	2722.81	1.54	4.17	1.14	0.02	2723.36	2717.90	
0.001658	0.044	0.100	0.050	0.100	0.06	-0.00	180.00	
	2715.50	25.	25.	25.	145.	25.	350.00	10.

*SECNO .300

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

BROWNING BRANCH 100 YEAR FLOODWA 08/01/81

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

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

3470 ENCROACHMENT STATIONS= 200.0 350.0 TYPE= 1 TARGET= 150.000

0.30	1900.	530.	1141.	229.	1.20	20	106.

2724.05	2724.05	97.	108.	57.	1.03	19	2724.80	
5.25	2723.27	5.48	10.58	4.05	0.85	2725.25	2723.20	
0.026200	0.045	0.080	0.050	0.080	0.52	-0.00	200.00	
	2718.80	200.	200.	200.	57.	54.	310.00	13.

*SECNO .340

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 200.0 350.0 TYPE= 1 TARGET= 150.000

0.34	1900.	393.	872.	634.	0.37	4	149.	
2727.35	0.0	127.	135.	219.	-0.83	0	2727.50	
6.15	2726.39	3.09	6.47	2.89	2.39	2727.72	2725.80	
0.006325	0.045	0.080	0.045	0.080	0.08	-0.00	200.00	
	2721.20	210.	210.	210.	57.	93.	350.00	15.

*SECNO .430

3301 HV CHANGED MORE THAN HVINS

BROWNING BRANCH			100 YEAR FLOODWA		08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

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

3470 ENCROACHMENT STATIONS= 300.0 500.0 TYPE= 1 TARGET= 200.000

0.43	1895.	344.	1102.	449.	0.94	20	200.	
2735.88	2735.88	153.	110.	205.	0.56	10	2733.50	
5.78	2735.46	2.26	10.01	2.19	4.27	2736.82	2733.50	
0.010171	0.044	0.100	0.040	0.110	0.28	-0.00	300.00	
	2730.10	540.	540.	540.	90.	110.	500.00	20.

*SECNO .460

3280 CROSS SECTION 0.46 EXTENDED 0.37 FEET

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 200.0 500.0 TYPE= 1 TARGET= 300.000

0.46	1890.	818.	590.	482.	0.14	2	300.	
2737.47	0.0	566.	122.	264.	-0.80	0	2734.50	
6.37	2736.81	1.45	4.85	1.83	0.71	2737.61	2734.50	
0.002082	0.043	0.100	0.040	0.070	0.08	-0.00	200.00	
	2731.10	180.	180.	180.	190.	110.	500.00	23.

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*SECNO .480
3280 CROSS SECTION      0.48 EXTENDED      0.88 FEET


3301 HV CHANGED MORE THAN HVINS

    BROWNING BRANCH              100 YEAR FLOODWA     08/01/81
   MILE      Q          QLOB      QCH       QROB      HV        ITRIAL    TOPWID
   ELEV      CRIWS      ALOB      ACH       AROB      DHV       IDC       BANK ELEV
   DEPTH     WSELK      VLOB      VCH       VROB      HL        EG     LEFT/RIGHT
   SLOPE     WTN        XNL       XNCH      XNR       OLOSS     CORAR     SSTA
             ELMIN      XLOBL     XLCH      XLOBR     WSDL      WSDR      ENDST      VOL

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

3470 ENCROACHMENT STATIONS=     150.0     410.0  TYPE=     1  TARGET=     260.000
      0.48     1890.      676.      762.      452.      0.68        20      260.
   2738.38  2738.38      270.       77.      142.      0.54        14  2737.00
      5.18  2737.82      2.50      9.87      3.19      0.17  2739.06     2737.00
 0.013210     0.043     0.100     0.040     0.070      0.27    -0.00     150.00
              2733.20       40.       40.       40.      159.      101.  410.00       24.


*SECNO .480

*** GR CARDS REPEATED
3280 CROSS SECTION      0.48 EXTENDED      1.64 FEET


3470 ENCROACHMENT STATIONS=     150.0     410.0  TYPE=     1  TARGET=     260.000
      0.48     1890.      748.      598.      544.      0.27         2      260.
   2739.13      0.0      385.       89.      213.     -0.41         0  2737.00
      5.93  2738.41      1.94      6.70      2.56      0.31  2739.41     2737.00
 0.004997     0.043     0.100     0.040     0.070      0.04    -0.00     150.00
              2733.20       40.       40.       40.      159.      101.  410.00       25.


*SECNO .480
      3700.   BRIDGE STENCL=     150.00     STENCR=     410.00
3280 CROSS SECTION      0.48 EXTENDED      1.71 FEET


3370 NORMAL BRIDGE,NRD= 14 MIN ELTRD= 2736.30 MAX ELLC= 2737.90


3470 ENCROACHMENT STATIONS=     150.0     410.0  TYPE=     1  TARGET=     260.000
      0.48     1890.      969.      378.      543.      0.21        11      260.
   2739.20      0.0      324.       70.      156.     -0.06         0  2737.90
      6.00  2738.46      2.99      5.37      3.47      0.01  2739.42     2738.30
 0.013813     0.043     0.100     0.040     0.070      0.01    -8.83     150.00
              2733.20        1.        1.        1.      159.      101.  410.00       25.


*SECNO .480
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*** GR CARDS REPEATED
3280 CROSS SECTION 0.48 EXTENDED 2.09 FEET

3370 NORMAL BRIDGE,NRD= 14 MIN ELTRD= 2736.30 MAX ELLC= 2737.90

3470 ENCROACHMENT STATIONS=			150.0	410.0	TYPE= 1	TARGET=	260.000	
0.48	1890.	968.	335.	587.	0.15	2	260.	
2739.59	0.0	383.	77.	192.	-0.07	0	2737.90	
6.39	2738.62	2.53	4.37	3.05	0.31	2739.74	2738.30	
0.008184	0.043	0.100	0.040	0.070	0.01	-8.83	150.00	
	2733.20	30.	30.	30.	159.	101.	410.00	25.

*SECNO .480
3280 CROSS SECTION 0.48 EXTENDED 2.08 FEET

3470 ENCROACHMENT STATIONS=			150.0	410.0	TYPE= 1	TARGET=	260.000	
0.48	1890.	773.	540.	578.	0.18	2	260.	
2739.58	0.0	452.	96.	253.	0.03	0	2737.00	
6.38	2738.61	1.71	5.60	2.28	0.00	2739.78	2737.00	
0.003155	0.043	0.100	0.040	0.070	0.02	-0.00	150.00	
	2733.20	1.	1.	1.	159.	101.	410.00	25.

*SECNO .480

*** GR CARDS REPEATED
3280 CROSS SECTION 0.48 EXTENDED 2.13 FEET

BROWNING BRANCH			100 YEAR FLOODWA		08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3470 ENCROACHMENT STATIONS=			150.0	410.0	TYPE= 1	TARGET=	260.000	
0.48	1890.	775.	534.	581.	0.17	1	260.	
2739.62	0.0	459.	97.	258.	-0.01	0	2737.00	
6.42	2738.63	1.69	5.50	2.25	0.03	2739.79	2737.00	
0.003011	0.043	0.100	0.040	0.070	0.00	-0.00	150.00	
	2733.20	10.	10.	10.	159.	101.	410.00	25.

*SECNO .510

3301 HV CHANGED MORE THAN HVINS

BROWNING BRANCH			100 YEAR FLOODWA		08/01/81		
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT

K03

SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

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

3470 ENCROACHMENT STATIONS=			290.0	550.0	TYPE= 1	TARGET=	260.000	
0.51	1890.	136.	639.	1115.	0.70	20	251.	
2740.98	2740.98	56.	63.	269.	0.52	13	2739.40	
4.98	2740.97	2.43	10.07	4.15	0.78	2741.68	2739.20	
0.017461	0.043	0.090	0.045	0.060	0.26	-0.00	298.80	
	2736.00	130.	130.	130.	56.	195.	550.00	27.

*SECNO .510

*** GR CARDS REPEATED

3470 ENCROACHMENT STATIONS=			290.0	550.0	TYPE= 1	TARGET=	260.000	
0.51	1890.	176.	460.	1254.	0.23	2	252.	
2741.83	0.0	97.	77.	426.	-0.47	0	2739.40	
5.83	2741.73	1.81	5.98	2.94	0.33	2742.06	2739.20	
0.004767	0.043	0.090	0.045	0.060	0.05	-0.00	297.51	
	2736.00	40.	40.	40.	57.	195.	550.00	27.

*SECNO .510
3700. BRIDGE STENCL= 290.00 STENCR= 550.00

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

BROWNING BRANCH 100 YEAR FLOODWA 08/01/81

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

3370 NORMAL BRIDGE,NRD= 6 MIN ELTRD= 2741.80 MAX ELLC= 2742.00

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

3470 ENCROACHMENT STATIONS=			290.0	550.0	TYPE= 1	TARGET=	260.000	
0.51	1890.	0.	1033.	857.	0.97	20	130.	
2741.73	2741.73	0.	117.	129.	0.75	9	2745.20	
4.73	2741.52	0.0	8.84	6.65	0.01	2742.70	2744.30	
0.046124	0.043	0.090	0.045	0.060	0.37	-8.48	330.00	
	2737.00	1.	1.	1.	16.	204.	550.00	27.

*SECNO .540

*** GR CARDS REPEATED

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3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3370 NORMAL BRIDGE,NRD=  6 MIN ELTRD= 2741.80 MAX ELLC= 2742.00

3470 ENCROACHMENT STATIONS=     290.0     550.0  TYPE=     1  TARGET=     260.000
      0.54     1890.        0.      349.     1541.      0.21          5      203.
   2743.82      0.0         0.      118.      406.     -0.77          0   2745.20
      6.82   2743.19        0.0      2.96      3.79      1.24    2744.02   2744.30
 0.005863     0.045       0.090     0.045     0.060      0.08     -76.83    330.00
              2737.00       180.      180.       50.       16.       204.    550.00       28.

*SECNO ,540
3280 CROSS SECTION      0.54 EXTENDED      2.09 FEET

   BROWNING BRANCH                100 YEAR FLOODWA     08/01/81
   MILE        Q          QLOB        QCH         QROB        HV          ITRIAL      TOPWID
   ELEV        CRIWS      ALOB        ACH         AROB        DHV         IDC         BANK ELEV
   DEPTH       WSELK      VLOB        VCH         VROB        HL          EG       LEFT/RIGHT
   SLOPE       WTN        XNL         XNCH        XNR         OLOSS       CORAR       SSTA
               ELMIN      XLOBL       XLCH        XLOBR       WSDL        WSDR        ENDST       VOL

3470 ENCROACHMENT STATIONS=     290.0     550.0  TYPE=     1  TARGET=     260.000
      0.54     1890.      272.      459.     1159.      0.14          2      260.
   2743.89      0.0       167.       96.      500.     -0.06          0   2740.60
      6.89   2743.19        1.62      4.79      2.32      0.00    2744.03   2740.30
 0.002403     0.045       0.090     0.045     0.060      0.01     -0.00    290.00
              2737.00         1.        1.        1.       66.       194.    550.00       28.

*SECNO .540

*** GR CARDS REPEATED
3280 CROSS SECTION      0.54 EXTENDED      2.17 FEET

3470 ENCROACHMENT STATIONS=     290.0     550.0  TYPE=     1  TARGET=     260.000
      0.54     1890.      273.      451.     1166.      0.13          2      260.
   2743.97      0.0       172.       97.      514.     -0.01          0   2740.60
      6.97   2743.32        1.59      4.64      2.27      0.07    2744.10   2740.30
 0.002213     0.045       0.090     0.045     0.060      0.00     -0.00    290.00
              2737.00        30.       30.       30.       66.       194.    550.00       29.

*SECNO .610

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS
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 BROWNING BRANCH              100 YEAR FLOODWA    08/01/81
    MILE      Q         QLOB      QCH       QROB      HV        ITRIAL    TOPWID
    ELEV      CRIWS     ALOB      ACH       AROB      DHV       IDC       BANK ELEV
    DEPTH     WSELK     VLOB      VCH       VROB      HL        EG     LEFT/RIGHT
    SLOPE     WTN       XNL       XNCH      XNR       OLOSS     CORAR     SSTA
              ELMIN     XLOBL     XLCH      XLOBR     WSDL      HSDR      ENDST      VOL

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

3470 ENCROACHMENT STATIONS=      40.0     410.0  TYPE=     1  TARGET=     370.000
      0.61     1885.      330.      1061.      495.      0.76        20       318.
   2746.97  2746.97      185.       117.      194.      0.62        10   2744.80
      6.67  2746.48      1.78       9.10      2.55      1.28   2747.73   2746.80
  0.011343    0.045     0.100      0.045     0.100      0.31     -0.00     40.00
              2740.30      300.       300.      300.      173.      197.   410.00       33.


*SECNO .610

3265 DIVIDED FLOW

3280 CROSS SECTION       0.61 EXTENDED       3.31 FEET


3470 ENCROACHMENT STATIONS=      40.0     410.0  TYPE=     1  TARGET=     370.000
      0.61     1885.      547.       724.      614.      0.27         3       320.
   2747.81      0.0      319.       115.      307.     -0.49         0   2744.80
      5.81  2747.21      1.72       6.30      2.00      0.30   2748.08   2746.80
  0.005307    0.045     0.100      0.045     0.100      0.05     -0.00     40.00
              2742.00       40.        40.       40.      173.      197.   410.00       34.

*SECNO .610
      3700.  BRIDGE STENCL=      40.00     STENCR=     410.00

3265 DIVIDED FLOW

3280 CROSS SECTION       0.61 EXTENDED       3.49 FEET


3370 NORMAL BRIDGE,NRD=  6 MIN ELTRD= 2746.50 MAX ELLC= 2746.00

3470 ENCROACHMENT STATIONS=      40.0     410.0  TYPE=     1  TARGET=     370.000
      0.61     1885.      701.       183.      921.      0.11         2       320.
   2747.99      0.0      339.        57.      326.     -0.16         0   2746.70
      5.99  2747.35      2.37       3.23      2.83      0.01   2748.10   2747.00
  0.009949    0.045     0.100      0.045     0.100      0.02    -32.31     40.00
              2742.00        1.         1.        1.      173.      197.   410.00       34.

*SECNO .610

*** GR CARDS REPEATED

3265 DIVIDED FLOW
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3280 CROSS SECTION 0.61 EXTENDED 3.76 FEET

BROWNING BRANCH 100 YEAR FLOODWA 08/01/81

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

3370 NORMAL BRIDGE,NRD= 6 MIN ELTRD= 2746.50 MAX ELLC= 2746.00

3470 ENCROACHMENT STATIONS= 40.0 410.0 TYPE= 1 TARGET= 370.000

0.61	1885.	807.	175.	902.	0.09	2	320.	
2748.26	0.0	374.	61.	364.	-0.02	0	2746.70	
6.26	2747.48	2.16	2.85	2.48	0.25	2748.35	2747.00	
0.007001	0.045	0.100	0.045	0.100	0.00	-32.31	40.00	
	2742.00	30.	30.	30.	173.	197.	410.00	34.

*SECNO .610

3265 DIVIDED FLOW

3280 CROSS SECTION 0.61 EXTENDED 3.72 FEET

3470 ENCROACHMENT STATIONS= 40.0 410.0 TYPE= 1 TARGET= 370.000

0.61	1885.	595.	666.	623.	0.18	2	320.	
2748.22	0.0	385.	125.	362.	0.09	0	2744.80	
6.22	2747.44	1.55	5.32	1.72	0.00	2748.40	2746.80	
0.003372	0.045	0.100	0.045	0.100	0.05	-0.00	40.00	
	2742.00	1.	1.	1.	173.	197.	410.00	34.

*SECNO .610

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3280 CROSS SECTION 0.61 EXTENDED 3.77 FEET

3470 ENCROACHMENT STATIONS= 40.0 410.0 TYPE= 1 TARGET= 370.000

0.61	1885.	600.	661.	624.	0.18	1	320.	
2748.26	0.0	393.	126.	369.	-0.01	0	2744.80	
6.26	2747.48	1.53	5.23	1.69	0.03	2748.44	2746.80	
0.003216	0.045	0.100	0.045	0.100	0.00	-0.00	40.00	
	2742.00	10.	10.	10.	173.	197.	410.00	34.

*SECNO .740

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

BROWNING BRANCH			100 YEAR FLOODWA		08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

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

3470 ENCROACHMENT STATIONS=			450.0	670.0	TYPE= 1	TARGET=	220.000	
0.74	1880.	53.	1696.	130.	1.22	20	172.	
2758.29	2758.29	33.	182.	78.	1.04	11	2756.50	
6.99	2758.20	1.63	9.30	1.68	3.74	2759.50	2756.50	
0.020188	0.047	0.120	0.060	0.110	0.52	-0.00	468.39	
	2751.30	570.	570.	570.	55.	146.	670.00	42.

*SECNO .740

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS=			450.0	670.0	TYPE= 1	TARGET=	220.000	
0.74	1880.	144.	1397.	338.	0.44	3	190.	
2759.56	0.0	97.	229.	202.	-0.78	0	2756.50	
8.26	2759.21	1.49	6.09	1.67	0.42	2760.00	2756.50	
0.006380	0.047	0.120	0.060	0.110	0.08	-0.00	450.00	
	2751.30	40.	40.	40.	74.	146.	670.00	43.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	15.00	0.01	130.00	2.10

ELCHU	ELCHD
2751.50	2751.50

*SECNO .740
3700. BRIDGE STENCL= 450.00 STENCR= 670.00

*** GR CARDS REPEATED
PRESS FLOW BECAUSE EGLWC OF 2760.00 EXCEEDS 1.5 DEPTH

3265 DIVIDED FLOW

BROWNING BRANCH			100 YEAR FLOODWA		08/01/81		
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV

DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2764.76	2760.00	0.00	1258.	632.	130.	131.	2756.60

ELTRD
2756.50

3470 ENCROACHMENT STATIONS=			450.0	670.0	TYPE= 1	TARGET=	220.000	
0.74	1880.	159.	1356.	365.	0.38	2	190.	
2759.77	0.0	109.	238.	224.	-0.06	0	2756.50	
8.47	2759.21	1.46	5.70	1.63	0.15	2760.15	2756.50	
0.005343	0.047	0.120	0.060	0.110	0.0	-0.00	450.00	
	2751.30	30.	30.	30.	74.	146.	670.00	43.

*SECNO .740

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS=			450.0	670.0	TYPE= 1	TARGET=	220.000	
0.74	1880.	150.	1384.	346.	0.39	2	190.	
2759.81	0.0	111.	239.	227.	0.02	0	2756.50	
8.51	2759.24	1.36	5.80	1.53	0.04	2760.20	2756.50	
0.003811	0.047	0.110	0.050	0.100	0.01	-0.00	450.00	
	2751.30	10.	10.	10.	74.	146.	670.00	43.

*SECNO .800

3265 DIVIDED FLOW

3280 CROSS SECTION 0.80 EXTENDED 0.93 FEET

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS=			165.0	390.0	TYPE= 1	TARGET=	225.000	
0.80	1875.	267.	1305.	302.	1.03	2	135.	
2761.23	0.0	112.	135.	129.	0.64	0	2758.20	
6.43	2760.44	2.38	9.64	2.34	1.74	2762.26	2758.60	
0.009874	0.047	0.100	0.045	0.100	0.32	-0.00	165.00	
	2754.80	300.	300.	300.	98.	127.	390.00	46.

*SECNO .800

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3280 CROSS SECTION 0.80 EXTENDED 1.63 FEET

3470 ENCROACHMENT STATIONS= 165.0 390.0 TYPE= 1 TARGET= 225.000

0.80	1875.	321.	1212.	342.	0.65	3	135.	
2761.94	0.0	151.	153.	168.	-0.38	0	2758.20	
7.14	2760.87	2.13	7.92	2.04	0.29	2762.59	2758.60	
0.005665	0.047	0.100	0.045	0.100	0.04	-0.00	165.00	
	2754.80	40.	40.	40.	98.	127.	390.00	47.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	11.00	0.01	55.00	0.50

ELCHU	ELCHD
2754.80	2754.80

*SECNO .800
3700. BRIDGE STENCL= 165.00 STENCR= 390.00

*** GR CARDS REPEATED
6870 D.S. ENERGY OF 2762.59 HIGHER THAN COMPUTED ENERGY OF 2762.39

3265 DIVIDED FLOW

3280 CROSS SECTION 0.80 EXTENDED 2.64 FEET

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2790.81	2762.59	0.00	1653.	234.	55.	55.	2759.00

ELTRD
2759.00

3470 ENCROACHMENT STATIONS= 165.0 390.0 TYPE= 1 TARGET= 225.000

0.80	1875.	321.	1212.	342.	0.65	3	135.	
2761.94	0.0	151.	153.	168.	-0.00	0	2758.20	
7.14	2761.06	2.12	7.91	2.03	0.0	2762.59	2758.60	
0.005643	0.047	0.100	0.045	0.100	0.0	-0.00	165.00	
	2754.80	30.	30.	30.	98.	127.	390.00	47.

*SECNO .800

3265 DIVIDED FLOW

3280 CROSS SECTION 0.80 EXTENDED 1.68 FEET

BROWNING BRANCH MILE	Q	QLOB	100 YEAR FLOODWA QCH	QROB	08/01/81 HV	ITRIAL	TOPWID

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   ELEV       CRIWS      ALOB       ACH        AROB       DHV        IDC        BANK ELEV
   DEPTH      WSELK      VLOB       VCH        VROB       HL         EG       LEFT/RIGHT
   SLOPE      WTN        XNL        XNCH       XNR        OLOSS      CORAR      SSTA
              ELMIN      XLOBL      XLCH       XLOBR      WSDL       WSDR       ENDST      VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=      165.0      390.0  TYPE=      1  TARGET=      225.000
      0.80      1875.       228.       1209.       437.      1.10          2        165.
   2761.98   2761.98         98.        117.       181.      0.44         10    2759.20
      6.18   2761.25       2.33       10.31       2.41      0.23    2763.07    2756.50
  0.010849     0.047      0.100      0.045      0.100      0.22      -0.00     165.00
              2755.80         30.        30.        30.        96.      129.     390.00      47.


*SECNO .980
    BROWNING BRANCH                 100 YEAR FLOODWA     08/01/81
   MILE       Q          QLOB       QCH        QROB       HV         ITRIAL     TOPWID
   ELEV       CRIWS      ALOB       ACH        AROB       DHV        IDC        BANK ELEV
   DEPTH      WSELK      VLOB       VCH        VROB       HL         EG       LEFT/RIGHT
   SLOPE      WTN        XNL        XNCH       XNR        OLOSS      CORAR      SSTA
              ELMIN      XLOBL      XLCH       XLOBR      WSDL       WSDR       ENDST      VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=      150.0      370.0  TYPE=      1  TARGET=      220.000
      0.98      1865.       214.       1155.       496.      0.89          4        220.
   2775.18   2775.18         124.       123.       151.     -0.20          8    2773.40
      6.68   2774.83         1.73       9.36       3.27      9.23    2776.08    2773.50
  0.009707     0.046      0.100      0.040      0.060      0.02      -0.00     150.00
              2768.50         900.       900.       900.       110.      110.     370.00      56.


*SECNO .980

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS


3470 ENCROACHMENT STATIONS=      150.0      370.0  TYPE=      1  TARGET=      220.000
      0.98      1865.       296.       959.       610.      0.39          3        220.
   2775.97       0.0         199.       145.       227.     -0.50          0    2773.40
      7.47   2775.35         1.49       6.60       2.69      0.23    2776.36    2773.50
  0.003883     0.046      0.100      0.040      0.060      0.05      -0.00     150.00
              2768.50         40.        40.        40.       110.      110.     370.00      56.


*SECNO .980
     3700.   BRIDGE STENCL=     150.00    STENCR=     370.00

3370 NORMAL BRIDGE,NRD= 11 MIN ELTRD= 2774.20 MAX ELLC= 2774.40


3470 ENCROACHMENT STATIONS=      150.0      370.0  TYPE=      1  TARGET=      220.000
      0.98      1865.       588.       353.       924.      0.38          0        220.
   2775.98       0.0         180.        57.       173.     -0.01          0    2774.80
      7.48   2775.45         3.27       6.21       5.33      0.01    2776.37    2774.70
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F04

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 0.022727     0.046      0.100      0.040      0.060      0.00     -43.76     150.00
             2768.50        1.         1.         1.      112.       108.     370.00        56.

*SECNO .980

*** GR CARDS REPEATED

3370 NORMAL BRIDGE,NRD= 11 MIN ELTRD= 2774.20 MAX ELLC= 2774.40

3470 ENCROACHMENT STATIONS=      150.0      370.0  TYPE=      1  TARGET=      220.000
     0.98      1865.       608.       288.       970.       0.22          2       220.
  2776.58       0.0       243.        66.       235.      -0.17          0    2774.80
     8.08   2775.64       2.50       4.37       4.13       0.41    2776.80    2774.70
 0.009226     0.046      0.100      0.040      0.060       0.02     -43.76     150.00
            2768.50        30.        30.        30.       112.       108.     370.00        56.

*SECNO .980
3280 CROSS SECTION        0.98 EXTENDED       0.44 FEET

    BROWNING BRANCH                      100 YEAR FLOODWA       08/01/81
   MILE          Q         QLOB       QCH        QROB       HV         ITRIAL     TOPWID
   ELEV       CRIWS        ALOB       ACH        AROB       DHV        IDC        BANK ELEV
   DEPTH      WSELK        VLOB       VCH        VROB       HL         EG      LEFT/RIGHT
   SLOPE      WTN          XNL        XNCH       XNR        OLOSS      CORAR      SSTA
              ELMIN        XLOBL      XLCH       XLOBR      WSDL       WSDR       ENDST        VOL

3470 ENCROACHMENT STATIONS=      150.0      370.0  TYPE=      1  TARGET=      220.000
     0.98      1865.       257.       891.       717.       0.26          2       220.
  2776.64       0.0       210.       162.       291.       0.05          0    2773.40
     8.14   2775.64       1.22       5.50       2.46       0.08    2776.90    2773.50
 0.002338     0.046      0.100      0.040      0.060       0.02      -0.00     150.00
            2768.50        20.        20.        20.       110.       110.     370.00        57.

*SECNO .980

3470 ENCROACHMENT STATIONS=      150.0      370.0  TYPE=      1  TARGET=      220.000
     0.98      1865.       415.       961.       489.       0.45          2       220.
  2776.61       0.0       221.       135.       174.       0.19          0    2773.20
     5.41   2775.84       1.88       7.14       2.81       0.07    2777.07    2774.90
 0.005381     0.046      0.100      0.040      0.060       0.09      -0.00     150.00
            2771.20        20.        20.        20.       116.       104.     370.00        57.

*SECNO 1.190

3265 DIVIDED FLOW

    BROWNING BRANCH                      100 YEAR FLOODWA       08/01/81
   MILE          Q         QLOB       QCH        QROB       HV         ITRIAL     TOPWID
   ELEV       CRIWS        ALOB       ACH        AROB       DHV        IDC        BANK ELEV
   DEPTH      WSELK        VLOB       VCH        VROB       HL         EG      LEFT/RIGHT
   SLOPE      WTN          XNL        XNCH       XNR        OLOSS      CORAR      SSTA
              ELMIN        XLOBL      XLCH       XLOBR      WSDL       WSDR       ENDST        VOL
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G04

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

3470 ENCROACHMENT STATIONS=			330.0	640.0	TYPE= 1	TARGET=	310.000	
1.19	1300.	334.	928.	38.	0.82	20	180.	
2792.65	2792.65	152.	109.	21.	0.37	9	2791.70	
6.65	2792.02	2.20	8.51	1.81	7.49	2793.48	2791.60	
0.010123	0.045	0.085	0.045	0.085	0.18	0.0	330.00	
	2786.00	1100.	1100.	1100.	191.	29.	550.00	67.

*SECNO 1.190

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS=			330.0	640.0	TYPE= 1	TARGET=	310.000	
1.19	1300.	478.	763.	59.	0.37	3	180.	
2793.41	0.0	259.	124.	35.	-0.46	0	2791.70	
7.41	2792.52	1.85	6.14	1.65	0.26	2793.78	2791.60	
0.004437	0.045	0.085	0.045	0.085	0.05	-0.00	330.00	
	2786.00	40.	40.	40.	191.	29.	550.00	68.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	6.00	0.01	27.00	0.0
ELCHU	ELCHD							
2787.30	2787.30							

*SECNO 1.190
3700. BRIDGE STENCL= 330.00 STENCR= 640.00
6870 D.S. ENERGY OF 2793.78 HIGHER THAN COMPUTED ENERGY OF 2793.63

3265 DIVIDED FLOW

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2851.01	2793.78	0.00	1231.	79.	27.	27.	2791.80

ELTRD
2791.80

3470 ENCROACHMENT STATIONS=			330.0	640.0	TYPE= 1	TARGET=	310.000	
1.19	1300.	409.	582.	308.	0.16	0	270.	
2793.62	0.0	289.	129.	228.	-0.21	0	2791.70	
7.62	2792.56	1.42	4.53	1.36	0.0	2793.78	2791.60	
0.002308	0.045	0.085	0.045	0.085	0.0	-0.00	330.00	
	2786.00	30.	30.	30.	191.	119.	640.00	68.

*SECNO 1.190

*** GR CARDS REPEATED

3265 DIVIDED FLOW

BROWNING BRANCH			100 YEAR FLOODWA		08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
3470 ENCROACHMENT STATIONS=			330.0	640.0	TYPE= 1	TARGET=	310.000	
1.19	1300.	412.	578.	311.	0.15	0	270.	
2793.65	0.0	293.	129.	231.	-0.00	0	2791.70	
7.65	2792.59	1.41	4.48	1.35	0.02	2793.80	2791.60	
0.002240	0.045	0.085	0.045	0.085	0.00	-0.00	330.00	
	2786.00	10.	10.	10.	191.	119.	640.00	68.

*SECNO 1.300

3301 HV CHANGED MORE THAN HVINS

BROWNING BRANCH			100 YEAR FLOODWA		08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

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

3470 ENCROACHMENT STATIONS=			260.0	350.0	TYPE= 1	TARGET=	90.000	
1.30	1300.	133.	802.	365.	1.25	20	90.	
2801.48	2801.48	57.	72.	99.	1.09	20	2800.20	
5.18	2800.98	2.31	11.08	3.71	2.26	2802.72	2799.00	
0.015617	0.045	0.100	0.040	0.100	0.55	-0.00	260.00	
	2796.30	480.	480.	480.	49.	41.	350.00	73.

*SECNO 1.300

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS=			260.0	350.0	TYPE= 1	TARGET=	90.000	
1.30	1300.	205.	731.	364.	0.60	3	90.	
2802.55	0.0	100.	92.	133.	-0.65	0	2800.20	
6.25	2801.66	2.05	7.97	2.74	0.36	2803.15	2799.00	
0.005892	0.045	0.100	0.040	0.100	0.06	-0.00	260.00	
	2796.30	40.	40.	40.	49.	41.	350.00	73.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	5.00	0.01	38.00	1.90

ELCHU	ELCHD
2796.30	2796.30

*SECNO 1.300
3700. BRIDGE STENCL= 260.00 STENCR= 350.00

*** GR CARDS REPEATED
PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2831.63	2803.15	0.00	1030.	278.	38.	39.	2799.70

ELTRD
2801.00

3470 ENCROACHMENT STATIONS= 260.0 350.0 TYPE= 1 TARGET= 90.000

1.30	1300.	249.	690.	361.	0.36	2	90.
2803.52	0.0	139.	109.	164.	-0.24	0	2800.20
7.22	2802.63	1.79	6.32	2.20	0.73	2803.88	2799.00
0.002928	0.045	0.100	0.040	0.100	0.0	-0.00	260.00
	2796.30	30.	30.	30.	49.	41.	350.00

73.

*SECNO 1.300

*** GR CARDS REPEATED

3470 ENCROACHMENT STATIONS= 260.0 350.0 TYPE= 1 TARGET= 90.000

1.30	1300.	251.	689.	360.	0.35	0	90.
2803.56	0.0	141.	110.	165.	-0.01	0	2800.20
7.26	2802.64	1.78	6.26	2.18	0.03	2803.91	2799.00
0.002853	0.045	0.100	0.040	0.100	0.00	-0.00	260.00
	2796.30	10.	10.	10.	49.	41.	350.00

73.

THIS RUN EXECUTED 08/01/81 8:20:56

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  HEC2 RELEASE DATED NOV 76 UPDATED JULY1979
  ERROR CORR -  01,02,03
  MODIFICATION -  50,51,52,53,54
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NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER
INDICATES MESSAGE IN SUMMARY OF ERRORS LIST/

IH0219I FIOCS - MISSING DD CARD OR DCB ERROR FOR ASCII TAPE FOR FT51F001

TRACEBACK	ROUTINE	CALLED FROM ISN	REG. 14	REG. 15	REG. 0	REG. 1
	IBCOM		000E2F88	000F9AFC	00000000	000D6E1C
	SUMPO		420C6D7C	000E2050	0000000C	00000000
	MAIN		0002C698	000C5B10	0089D2D0	000C4FF8

ENTRY POINT= 000C5B10

STANDARD FIXUP TAKEN , EXECUTION CONTINUING

'*******
BROWNING BRANCH

SUMMARY PRINTOUT TABLE 110

	SECNO	CWSEL	DIFKWS	EG	TOPWID	PERENC	STENCL	STENCR	STCHL	STCHR	QLOB	QCH	QROB
	0.050	2705.94	0.0	2706.40	319.	0.	0.	0.	260.	280.	292.	965.	643.
	0.050	2706.72	0.78	2707.37	130.	130.	230.	360.	260.	280.	318.	1161.	422.
*	0.140	2710.98	0.0	2711.62	266.	0.	0.	0.	318.	330.	556.	549.	795.
*	0.140	2711.44	0.46	2712.59	110.	110.	290.	400.	318.	330.	465.	712.	723.
	0.180	2714.18	0.0	2714.58	331.	0.	0.	0.	300.	321.	194.	688.	1018.
	0.180	2715.03	0.86	2715.60	170.	170.	230.	400.	300.	321.	397.	877.	627.
*	0.210	2717.84	0.0	2718.60	365.	0.	0.	0.	300.	320.	372.	1079.	449.
*	0.210	2717.78	-0.06	2718.85	170.	170.	230.	400.	300.	320.	249.	1198.	453.
	0.210	2718.57	0.0	2718.85	493.	0.	0.	0.	300.	320.	498.	822.	580.
	0.210	2718.70	0.13	2719.17	170.	170.	230.	400.	300.	320.	338.	984.	579.
	0.210	2718.69	0.0	2718.86	512.	0.	0.	0.	300.	320.	782.	564.	554.
*	0.210	2718.70	0.02	2719.50	170.	170.	230.	400.	300.	320.	436.	1006.	458.
	0.210	2718.96	0.0	2719.07	517.	0.	0.	0.	300.	320.	779.	463.	657.
	0.210	2719.69	0.72	2719.97	170.	170.	230.	400.	300.	320.	542.	698.	660.
	0.210	2718.94	0.0	2719.11	517.	0.	0.	0.	300.	320.	537.	714.	649.
	0.210	2719.75	0.81	2719.98	170.	170.	230.	400.	300.	320.	403.	834.	663.

K04

	0.210	2718.96	0.0	2719.13	517.	0.	0.	0.	300.	320.	539.	707.	654.
	0.210	2719.77	0.81	2720.00	170.	170.	230.	400.	300.	320.	404.	832.	664.
*	0.250	2721.50	0.0	2722.38	396.	0.	0.	0.	300.	320.	385.	1160.	355.
*	0.250	2721.58	0.08	2722.69	170.	170.	230.	400.	300.	320.	266.	1265.	368.
	0.250	2722.38	0.0	2722.68	516.	0.	0.	0.	300.	320.	531.	873.	496.
	0.250	2722.53	0.14	2723.07	170.	170.	230.	400.	300.	320.	352.	1005.	462.
	0.250	2722.61	0.0	2722.70	309.	0.	0.	0.	220.	329.	103.	1306.	491.
	0.250	2723.00	0.39	2723.12	170.	170.	200.	370.	220.	329.	34.	1541.	325.
	0.250	2722.78	0.0	2722.86	317.	0.	0.	0.	220.	329.	110.	1293.	497.
	0.250	2723.17	0.40	2723.28	170.	170.	200.	370.	220.	329.	39.	1533.	328.

LO4

	SECNO	CWSEL	DIFKWS	EG	TOPWID	PERENC	STENCL	STENCR	STCHL	STCHR	QLOB	QCH	QROB
	0.250	2722.82	0.0	2722.87	350.	0.	0.	0.	220.	329.	216.	1468.	217.
	0.250	2723.23	0.41	2723.29	170.	170.	200.	370.	220.	329.	56.	1690.	154.
	0.260	2722.81	0.0	2722.91	255.	0.	0.	0.	305.	345.	658.	866.	376.
	0.260	2723.19	0.39	2723.36	170.	170.	180.	350.	305.	345.	790.	1080.	30.
*	0.300	2723.27	0.0	2724.03	216.	0.	0.	0.	240.	273.	855.	803.	243.
*	0.300	2724.05	0.78	2725.25	106.	150.	200.	350.	240.	273.	530.	1141.	229.
	0.340	2726.39	0.0	2726.64	348.	0.	0.	0.	240.	273.	650.	624.	627.
	0.340	2727.35	0.96	2727.72	149.	150.	200.	350.	240.	273.	393.	872.	634.
*	0.430	2735.46	0.0	2736.27	352.	0.	0.	0.	380.	400.	541.	993.	361.
*	0.430	2735.88	0.43	2736.82	200.	200.	300.	500.	380.	400.	344.	1102.	449.
	0.460	2736.81	0.0	2736.87	643.	0.	0.	0.	380.	400.	1201.	390.	299.
	0.460	2737.47	0.66	2737.61	300.	300.	200.	500.	380.	400.	818.	590.	482.
*	0.480	2737.82	0.0	2738.25	700.	0.	0.	0.	301.	317.	480.	600.	810.
*	0.480	2738.38	0.55	2739.06	260.	260.	150.	410.	301.	317.	676.	762.	452.
	0.480	2738.41	0.0	2738.51	700.	0.	0.	0.	301.	317.	474.	390.	1027.
	0.480	2739.13	0.73	2739.41	260.	260.	150.	410.	301.	317.	748.	598.	544.
	0.480	2738.46	0.0	2738.52	700.	0.	0.	0.	301.	317.	491.	178.	1221.
	0.480	2739.20	0.75	2739.42	260.	260.	150.	410.	301.	317.	969.	378.	543.
	0.480	2738.62	0.0	2738.67	700.	0.	0.	0.	301.	317.	483.	162.	1245.
	0.480	2739.59	0.97	2739.74	260.	260.	150.	410.	301.	317.	968.	335.	587.
	0.480	2738.61	0.0	2738.68	700.	0.	0.	0.	301.	317.	470.	347.	1073.
	0.480	2739.58	0.97	2739.76	260.	260.	150.	410.	301.	317.	773.	540.	578.
	0.480	2738.63	0.0	2738.70	700.	0.	0.	0.	301.	317.	470.	342.	1078.
	0.480	2739.62	0.98	2739.79	260.	260.	150.	410.	301.	317.	775.	534.	581.
*	0.510	2740.97	0.0	2741.58	292.	0.	0.	0.	347.	363.	128.	610.	1152.
*	0.510	2740.98	0.02	2741.68	251.	260.	290.	550.	347.	363.	136.	639.	1115.
	0.510	2741.73	0.0	2741.93	304.	0.	0.	0.	347.	363.	158.	434.	1297.
	0.510	2741.83	0.10	2742.06	252.	260.	290.	550.	347.	363.	176.	460.	1254.
*	0.510	2741.52	0.0	2742.28	171.	0.	0.	0.	330.	362.	0.	933.	957.
*	0.510	2741.73	0.21	2742.70	130.	260.	290.	550.	330.	362.	0.	1033.	857.
	0.540	2743.19	0.0	2743.36	237.	0.	0.	0.	330.	362.	0.	328.	1562.
	0.540	2743.82	0.63	2744.02	203.	260.	290.	550.	330.	362.	0.	349.	1541.
	0.540	2743.19	0.0	2743.37	321.	0.	0.	0.	347.	364.	233.	454.	1203.
	0.540	2743.89	0.70	2744.03	260.	260.	290.	550.	347.	364.	272.	459.	1159.
	0.540	2743.32	0.0	2743.47	321.	0.	0.	0.	347.	364.	235.	436.	1219.
	0.540	2743.97	0.65	2744.10	260.	260.	290.	550.	347.	364.	273.	451.	1166.
*	0.610	2746.48	0.0	2747.06	421.	0.	0.	0.	200.	225.	146.	893.	846.
*	0.610	2746.97	0.50	2747.73	318.	370.	40.	410.	200.	225.	330.	1061.	495.

	SECNO	CWSEL	DIFKWS	EG	TOPWID	PERENC	STENCL	STENCR	STCHL	STCHR	QLOB	QCH	QROB
	0.610	2747.21	0.0	2747.39	468.	0.	0.	0.	200.	225.	347.	561.	976.
	0.610	2747.81	0.60	2748.08	320.	370.	40.	410.	200.	225.	547.	724.	614.
	0.610	2747.35	0.0	2747.41	528.	0.	0.	0.	204.	221.	339.	131.	1415.
	0.610	2747.99	0.64	2748.10	320.	370.	40.	410.	204.	221.	781.	183.	921.
	0.610	2747.48	0.0	2747.53	528.	0.	0.	0.	204.	221.	363.	119.	1403.
	0.610	2748.26	0.78	2748.35	320.	370.	40.	410.	204.	221.	807.	175.	902.
	0.610	2747.44	0.0	2747.58	468.	0.	0.	0.	200.	225.	385.	528.	972.
	0.610	2748.22	0.78	2748.40	320.	370.	40.	410.	200.	225.	595.	666.	623.
	0.610	2747.48	0.0	2747.62	468.	0.	0.	0.	200.	225.	390.	523.	971.
	0.610	2748.26	0.78	2748.44	320.	370.	40.	410.	200.	225.	600.	661.	624.
*	0.740	2758.20	0.0	2759.05	349.	0.	0.	0.	505.	542.	42.	1480.	357.
*	0.740	2758.29	0.08	2759.50	172.	220.	450.	670.	505.	542.	53.	1696.	130.
	0.740	2759.21	0.0	2759.40	846.	0.	0.	0.	505.	542.	237.	1010.	633.
	0.740	2759.56	0.35	2760.00	190.	220.	450.	670.	505.	542.	144.	1397.	338.
	0.740	2759.21	0.0	2759.40	847.	0.	0.	0.	505.	542.	238.	1008.	634.
	0.740	2759.77	0.56	2760.15	190.	220.	450.	670.	505.	542.	159.	1356.	365.
	0.740	2759.24	0.0	2759.44	854.	0.	0.	0.	505.	542.	234.	1036.	610.
	0.740	2759.81	0.57	2760.20	190.	220.	450.	670.	505.	542.	150.	1394.	346.
	0.800	2760.44	0.0	2760.87	415.	0.	0.	0.	250.	275.	419.	872.	584.
	0.800	2761.23	0.79	2762.26	135.	225.	165.	390.	250.	275.	267.	1305.	302.
	0.800	2760.87	0.0	2761.11	415.	0.	0.	0.	250.	275.	489.	754.	632.
	0.800	2761.94	1.07	2762.59	135.	225.	165.	390.	250.	275.	321.	1212.	342.
	0.800	2761.06	0.0	2761.26	415.	0.	0.	0.	250.	275.	513.	714.	647.
	0.800	2761.94	0.88	2762.59	135.	225.	165.	390.	250.	275.	321.	1212.	342.
*	0.800	2761.25	0.0	2761.84	445.	0.	0.	0.	250.	272.	372.	884.	619.
*	0.800	2761.98	0.72	2763.07	165.	225.	165.	390.	250.	272.	228.	1209.	437.
*	0.980	2774.83	0.0	2775.32	577.	0.	0.	0.	246.	274.	459.	893.	513.
*	0.980	2775.18	0.35	2776.08	220.	220.	150.	370.	246.	274.	214.	1155.	496.
	0.980	2775.35	0.0	2775.53	604.	0.	0.	0.	246.	274.	503.	676.	686.
	0.980	2775.97	0.62	2776.36	220.	220.	150.	370.	246.	274.	296.	959.	610.
	0.980	2775.45	0.0	2775.54	610.	0.	0.	0.	254.	269.	764.	202.	898.
	0.980	2775.98	0.53	2776.37	220.	220.	150.	370.	254.	269.	588.	353.	924.
	0.980	2775.64	0.0	2775.70	620.	0.	0.	0.	254.	269.	763.	137.	965.
	0.980	2776.58	0.94	2776.80	220.	220.	150.	370.	254.	269.	608.	288.	970.
	0.980	2775.64	0.0	2775.85	620.	0.	0.	0.	246.	274.	169.	734.	962.
	0.980	2776.64	1.00	2776.90	220.	220.	150.	370.	246.	274.	257.	891.	717.
*	0.980	2775.84	0.0	2776.32	567.	0.	0.	0.	250.	281.	415.	866.	584.
	0.980	2776.61	0.77	2777.07	220.	220.	150.	370.	250.	281.	415.	961.	489.

A05

	SECNO	CWSEL	DIFKWS	EG	TOPWID	PERENC	STENCL	STENCR	STCHL	STCHR	QLOB	QCH	QROB
*	1.190	2792.02	0.0	2792.44	562.	0.	0.	0.	511.	531.	581.	678.	41.
*	1.190	2792.65	0.63	2793.48	180.	310.	330.	640.	511.	531.	334.	928.	38.
	1.190	2792.52	0.0	2792.65	671.	0.	0.	0.	511.	531.	715.	485.	100.
	1.190	2793.41	0.89	2793.78	180.	310.	330.	640.	511.	531.	478.	763.	59.
	1.190	2792.56	0.0	2792.66	762.	0.	0.	0.	511.	531.	676.	445.	179.
	1.190	2793.62	1.06	2793.78	270.	310.	330.	640.	511.	531.	409.	582.	308.
	1.190	2792.59	0.0	2792.69	762.	0.	0.	0.	511.	531.	679.	438.	183.
	1.190	2793.65	1.06	2793.80	270.	310.	330.	640.	511.	531.	412.	578.	311.
*	1.300	2800.98	0.0	2801.55	441.	0.	0.	0.	300.	318.	207.	563.	530.
*	1.300	2801.48	0.50	2802.72	90.	90.	260.	350.	300.	318.	133.	802.	365.
	1.300	2801.66	0.0	2801.82	475.	0.	0.	0.	300.	318.	377.	411.	512.
	1.300	2802.55	0.89	2803.15	90.	90.	260.	350.	300.	318.	205.	731.	364.
	1.300	2802.63	0.0	2802.68	550.	0.	0.	0.	300.	318.	490.	300.	510.
	1.300	2803.52	0.89	2803.88	90.	90.	260.	350.	300.	318.	249.	690.	361.
	1.300	2802.64	0.0	2802.69	550.	0.	0.	0.	300.	318.	491.	299.	510.
	1.300	2803.56	0.92	2803.91	90.	90.	260.	350.	300.	318.	251.	689.	360.

SUMMARY OF ERRORS

CAUTION SECNO= 0.140 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 0.140 PROFILE= 2 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.210 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 0.210 PROFILE= 1
PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 0.210 PROFILE= 1
20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 0.210 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 0.210 PROFILE= 2
PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 0.210 PROFILE= 2
20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 0.210 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 0.210 PROFILE= 2
PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 0.210 PROFILE= 2
20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 0.250 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 0.250 PROFILE= 1
PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 0.250 PROFILE= 1
20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 0.250 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 0.250 PROFILE= 2
PROBABLE MINIMUM SPECIFIC ENERGY

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 CAUTION  SECNO=    0.250  PROFILE= 2
  20 TRIALS ATTEMPTED TO BALANCE WSEL

 CAUTION  SECNO=    0.300  PROFILE= 1  CRITICAL DEPTH ASSUMED
 CAUTION  SECNO=    0.300  PROFILE= 2  CRITICAL DEPTH ASSUMED
 CAUTION  SECNO=    0.300  PROFILE= 2
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 CAUTION  SECNO=    0.300  PROFILE= 2
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 CAUTION  SECNO=    0.430  PROFILE= 1  CRITICAL DEPTH ASSUMED
 CAUTION  SECNO=    0.430  PROFILE= 1
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 CAUTION  SECNO=    0.430  PROFILE= 1
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 CAUTION  SECNO=    0.430  PROFILE= 2  CRITICAL DEPTH ASSUMED
 CAUTION  SECNO=    0.430  PROFILE= 2
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 CAUTION  SECNO=    0.430  PROFILE= 2
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 CAUTION  SECNO=    0.480  PROFILE= 2
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 CAUTION  SECNO=    0.510  PROFILE= 2
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  20 TRIALS ATTEMPTED TO BALANCE WSEL
 CAUTION  SECNO=    0.610  PROFILE= 2  CRITICAL DEPTH ASSUMED
 CAUTION  SECNO=    0.610  PROFILE= 2
  PROBABLE MINIMUM SPECIFIC ENERGY
 CAUTION  SECNO=    0.610  PROFILE= 2
  20 TRIALS ATTEMPTED TO BALANCE WSEL
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 CAUTION  SECNO=    0.740  PROFILE= 1  CRITICAL DEPTH ASSUMED
 CAUTION  SECNO=    0.740  PROFILE= 1
  PROBABLE MINIMUM SPECIFIC ENERGY
 CAUTION  SECNO=    0.740  PROFILE= 1
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 CAUTION  SECNO=    0.740  PROFILE= 2  CRITICAL DEPTH ASSUMED
 CAUTION  SECNO=    0.740  PROFILE= 2
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 CAUTION  SECNO=    0.740  PROFILE= 2
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 CAUTION  SECNO=    0.800  PROFILE= 1
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  20 TRIALS ATTEMPTED TO BALANCE WSEL
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 CAUTION  SECNO=    0.980  PROFILE= 1  CRITICAL DEPTH ASSUMED
 CAUTION  SECNO=    0.980  PROFILE= 2  CRITICAL DEPTH ASSUMED

 CAUTION  SECNO=    0.980  PROFILE= 1  CRITICAL DEPTH ASSUMED
 CAUTION  SECNO=    0.980  PROFILE= 1
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 CAUTION  SECNO=    0.980  PROFILE= 1
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 CAUTION  SECNO=    1.190  PROFILE= 2  CRITICAL DEPTH ASSUMED
 CAUTION  SECNO=    1.190  PROFILE= 2
  PROBABLE MINIMUM SPECIFIC ENERGY
 CAUTION  SECNO=    1.190  PROFILE= 2
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 CAUTION  SECNO=    1.300  PROFILE= 1  CRITICAL DEPTH ASSUMED
 CAUTION  SECNO=    1.300  PROFILE= 1
  PROBABLE MINIMUM SPECIFIC ENERGY
 CAUTION  SECNO=    1.300  PROFILE= 1
  20 TRIALS ATTEMPTED TO BALANCE WSEL
 CAUTION  SECNO=    1.300  PROFILE= 2  CRITICAL DEPTH ASSUMED
 CAUTION  SECNO=    1.300  PROFILE= 2
  PROBABLE MINIMUM SPECIFIC ENERGY
 CAUTION  SECNO=    1.300  PROFILE= 2
  20 TRIALS ATTEMPTED TO BALANCE WSEL
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FLOODWAY DATA, BROWNING BRANCH
PROFILE NO. 2

STATION	FLOODWAY WIDTH (FT)	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE
0.050	130.	425.	4.5	2706.7	2705.9	0.8
0.140	110.	281.	6.8	2711.4	2711.0	0.4
0.180	170.	451.	4.2	2715.0	2714.2	0.8
0.210	170.	364.	5.2	2717.8	2717.8	0.0
0.210	170.	520.	3.7	2718.7	2718.6	0.1
0.210	170.	308.	6.2	2718.7	2718.7	0.0
0.210	170.	476.	4.0	2719.7	2719.0	0.7
0.210	170.	699.	2.7	2719.7	2718.9	0.8
0.210	170.	703.	2.7	2719.8	2719.0	0.8
0.250	170.	415.	4.6	2721.6	2721.5	0.1
0.250	170.	576.	3.3	2722.5	2722.4	0.1
0.250	170.	712.	2.7	2723.0	2722.6	0.4
0.250	170.	741.	2.6	2723.2	2722.8	0.4
0.250	170.	1162.	1.6	2723.2	2722.8	0.4
0.260	170.	799.	2.4	2723.2	2722.8	0.4
0.300	150.	261.	7.3	2724.0	2723.3	0.7
0.340	150.	481.	3.9	2727.4	2726.4	1.0
0.430	200.	468.	4.1	2735.9	2735.5	0.4
0.460	300.	951.	2.0	2737.5	2736.8	0.7
0.480	260.	489.	3.9	2738.4	2737.8	0.6
0.480	260.	687.	2.8	2739.1	2738.4	0.7
0.480	260.	551.	3.4	2739.2	2738.5	0.7
0.480	260.	651.	2.9	2739.6	2738.6	1.0
0.480	260.	802.	2.4	2739.6	2738.6	1.0
0.480	260.	814.	2.3	2739.6	2738.6	1.0
0.510	260.	388.	4.9	2741.0	2741.0	0.0
0.510	260.	601.	3.1	2741.8	2741.7	0.1
0.510	260.	246.	7.7	2741.7	2741.5	0.2
0.540	260.	524.	3.6	2743.8	2743.2	0.6
0.540	260.	763.	2.5	2743.9	2743.2	0.7
0.540	260.	784.	2.4	2744.0	2743.3	0.7
0.610	370.	496.	3.8	2747.0	2746.5	0.5
0.610	370.	740.	2.5	2747.8	2747.2	0.6
0.610	370.	712.	2.6	2748.0	2747.3	0.7
0.610	370.	799.	2.4	2748.3	2747.5	0.8
0.610	370.	873.	2.2	2748.2	2747.4	0.8
0.610	370.	888.	2.1	2748.3	2747.5	0.8
0.740	220.	293.	6.4	2758.3	2758.2	0.1
0.740	220.	529.	3.6	2759.6	2759.2	0.4
0.740	220.	571.	3.3	2759.8	2759.2	0.6
0.740	220.	576.	3.3	2759.8	2759.2	0.6
0.800	225.	377.	5.0	2761.2	2760.4	0.8
0.800	225.	472.	4.0	2761.9	2760.9	1.0
0.800	225.	473.	4.0	2761.9	2761.1	0.8
0.800	225.	397.	4.7	2762.0	2761.3	0.7
0.980	220.	399.	4.7	2775.2	2774.8	0.4
0.980	220.	571.	3.3	2776.0	2775.3	0.7
0.980	220.	410.	4.5	2776.0	2775.5	0.5
0.980	220.	543.	3.4	2776.6	2775.6	1.0
0.980	220.	664.	2.8	2776.6	2775.6	1.0

FLOODWAY DATA, BROWNING BRANCH
PROFILE NO. 2

STATION	FLOODWAY WIDTH (FT)	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE
0.980	220.	530.	3.5	2776.6	2775.8	0.8
1.190	310.	282.	4.6	2792.7	2792.0	0.7
1.190	310.	418.	3.1	2793.4	2792.5	0.9
1.190	310.	645.	2.0	2793.6	2792.6	1.0
1.190	310.	652.	2.0	2793.6	2792.6	1.0
1.300	90.	228.	5.7	2801.5	2801.0	0.5
1.300	90.	325.	4.0	2802.6	2801.7	0.9
1.300	90.	413.	3.1	2803.5	2802.6	0.9
1.300	90.	416.	3.1	2803.6	2802.6	1.0

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