

Brown Creek

BRCWN CREEK

YANCEY CO NC FEMA STUDY

500 YR FLOOD

100 YR FLOOD

50 YR FLOOD

10 YR FLOOD

MILE	Q	ELEV	Q	ELEV	Q	ELEV	Q	ELEV
0 <sup>m</sup>		2638.9		2632.7		2630.1		2624.8
0.040	2915.	<del>2622.5</del>	1900.	<del>2622.7</del>	1545.	<del>2622.3</del>	895.	<del>2621.4</del>
0.150	2840.	<del>2631.1</del>	1850.	<del>2629.9</del>	1510.	<del>2629.4</del>	875.	<del>2628.1</del>
0.270	2765.	2641.8	1800.	2640.6	1470.	2640.0	855.	2637.8
0.300	2745.	2643.5	1790.	2642.4	1460.	2641.9	850.	2640.4
0.440 D.S.	2650.	2656.1	1730.	2655.2	1410.	2654.8	820.	2652.7
0.440 U.S.	2650.	2657.3	1730.	2656.4	1410.	2656.0	820.	2654.4
0.600	2545.	2672.5	1665.	2671.2	1360.	2670.9	790.	2669.5
0.720	2460.	2680.1	1610.	2679.2	1315.	2678.6	765.	2677.6
0.730 D.S.	2460.	2684.8	1610.	2683.5	1315.	2683.0	765.	2682.5
0.730 U.S.	2460.	2686.7	1610.	2685.7	1315.	2685.2	765.	2684.0
0.800	2415.	2694.5	1580.	2693.4	1290.	2692.9	750.	2691.7
0.930 D.S.	2330.	2709.2	1525.	2708.0	1245.	2707.5	725.	2706.5
0.930 U.S.	2330.	2712.7	1525.	2711.1	1245.	2710.6	725.	2708.9
0.970 D.S.	2305.	2713.1	1510.	2711.6	1235.	2711.0	720.	2709.4
0.970 U.S.	2305.	2714.5	1510.	2712.5	1235.	2711.8	720.	2710.7
1.090	2220.	2730.2	1455.	2728.5	1190.	2727.9	695.	2726.7
1.120 D.S.	2220.	2734.3	1455.	2731.7	1190.	2731.0	695.	2729.5
1.120 U.S.	2220.	2735.3	1455.	2734.0	1190.	2732.1	695.	2730.9
1.300	2095.	2758.6	1375.	2757.2	1125.	2756.6	660.	2755.4
1.460	1995.	2791.2	1315.	2790.6	1075.	2790.3	630.	2789.6
1.480	1995.	2798.3	1315.	2797.7	1075.	2797.4	630.	2796.7
1.600	1910.	2823.1	1260.	2822.5	1030.	2822.3	605.	2821.5
1.710	1835.	2840.4	1210.	2839.1	990.	2838.6	580.	2837.5
1.720 D.S.	1835.	2845.3	1210.	2845.1	990.	2842.5	580.	2841.3
1.720 U.S.	1835.	2846.2	1210.	2845.6	990.	2844.8	580.	2843.2
1.860	1750.	2876.4	1155.	2875.7	945.	2875.4	555.	2873.9

\* SOUTH TOE RIVER MILE 17.50 ELEVATIONS @ THE MOUTH OF BROWN CREEK

## BROWN CREEK

## SUMMARY PRINTOUT TABLE 15U

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
0.040	895.	2621.4	0.0	0.0	0.0	150.93	0.0
0.040	1545.	2622.3	0.9	0.0	0.0	212.86	0.0
0.040	1900.	2622.7	0.4	0.0	0.0	249.61	0.0
0.040	2915.	2623.5	0.8	0.0	0.0	320.54	0.0
0.150	875.	2628.1	0.0	6.8	0.0	50.79	580.0
0.150	1510.	2629.4	1.3	7.1	0.0	144.17	580.0
0.150	1850.	2629.9	0.5	7.2	0.0	167.05	580.0
* 0.150	2840.	2631.1	1.2	7.5	0.0	219.02	580.0
* 0.270	855.	2637.8	0.0	9.7	0.0	25.44	610.0
* 0.270	1470.	2640.0	2.2	10.6	0.0	131.15	610.0
* 0.270	1800.	2640.6	0.6	10.7	0.0	159.84	610.0
* 0.270	2765.	2641.8	1.2	10.7	0.0	215.13	610.0
0.300	850.	2640.4	0.0	2.6	0.0	105.51	150.0
0.300	1460.	2641.9	1.5	1.8	0.0	185.34	150.0
0.300	1790.	2642.4	0.5	1.7	0.0	209.16	150.0
0.300	2745.	2643.5	1.1	1.7	0.0	241.22	150.0
* 0.440	820.	2652.7	0.0	12.3	0.0	38.62	680.0
* 0.440	1410.	2654.8	2.1	12.9	0.0	298.83	680.0
* 0.440	1730.	2655.2	0.4	12.8	0.0	305.50	680.0
* 0.440	2650.	2656.1	0.9	12.6	0.0	320.14	680.0
0.440	820.	2653.8	0.0	1.1	0.0	47.79	40.0
0.440	1410.	2655.4	1.6	0.7	0.0	290.85	40.0
0.440	1730.	2656.0	0.5	0.8	0.0	318.47	40.0
0.440	2650.	2656.8	0.8	0.7	0.0	331.74	40.0
0.440	820.	2654.1	0.0	0.3	0.0	123.36	1.0
0.440	1410.	2655.7	1.6	0.3	0.0	286.70	1.0
0.440	1730.	2656.2	0.4	0.2	0.0	300.04	1.0
0.440	2650.	2657.3	1.1	0.4	0.0	342.23	1.0
0.440	820.	2654.3	0.0	0.1	0.0	151.37	21.0
0.440	1410.	2656.0	1.7	0.2	0.0	293.25	21.0
0.440	1730.	2656.4	0.4	0.3	0.0	315.52	21.0
0.440	2650.	2657.5	1.0	0.2	0.0	348.24	21.0
0.440	820.	2654.2	0.0	-0.1	0.0	161.35	1.0
0.440	1410.	2655.9	1.7	-0.1	0.0	297.28	1.0
0.440	1730.	2656.4	0.4	-0.1	0.0	324.28	1.0
0.440	2650.	2657.3	1.0	-0.1	0.0	344.36	1.0
0.440	820.	2654.4	0.0	0.2	0.0	251.40	10.0
0.440	1410.	2656.0	1.7	0.1	0.0	318.95	10.0
0.440	1730.	2656.4	0.4	0.0	0.0	324.59	10.0
0.440	2650.	2657.3	1.0	0.0	0.0	345.05	10.0
* 0.600	790.	2669.5	0.0	15.2	0.0	68.34	800.0
* 0.600	1360.	2670.9	1.3	14.8	0.0	120.68	800.0
* 0.600	1665.	2671.2	0.4	14.9	0.0	125.49	800.0
* 0.600	2545.	2672.5	1.3	15.2	0.0	212.79	800.0

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
☾	0.720	765.	2677.6	0.0	8.0	0.0	113.34	660.0
	0.720	1315.	2678.6	1.1	7.7	0.0	126.30	660.0
	0.720	1610.	2679.2	0.6	7.9	0.0	180.04	660.0
	0.720	2460.	2680.1	0.9	7.6	0.0	218.99	660.0
*	0.730	765.	2682.5	0.0	5.0	0.0	109.70	40.0
*	0.730	1315.	2683.0	0.5	4.4	0.0	114.76	40.0
*	0.730	1610.	2683.5	0.4	4.3	0.0	118.97	40.0
*	0.730	2460.	2684.8	1.3	4.6	0.0	210.89	40.0
	0.730	765.	2683.5	0.0	0.9	0.0	118.87	26.0
*	0.730	1315.	2684.4	1.0	1.4	0.0	128.22	26.0
*	0.730	1610.	2684.9	0.4	1.4	0.0	213.61	26.0
*	0.730	2460.	2685.4	0.5	0.6	0.0	224.77	26.0
*	0.730	765.	2684.0	0.0	0.5	0.0	68.17	10.0
*	0.730	1315.	2685.2	1.2	0.7	0.0	119.43	10.0
*	0.730	1610.	2685.7	0.5	0.8	0.0	125.67	10.0
*	0.730	2460.	2686.7	1.0	1.3	0.0	206.22	10.0
*	0.800	750.	2691.7	0.0	7.7	0.0	66.97	320.0
*	0.800	1290.	2692.9	1.2	7.8	0.0	118.91	320.0
*	0.800	1580.	2693.4	0.5	7.7	0.0	125.03	320.0
*	0.800	2415.	2694.5	1.0	7.8	0.0	205.19	320.0
☾	0.930	725.	2706.5	0.0	14.8	0.0	35.97	615.0
	0.930	1245.	2707.5	1.1	14.6	0.0	43.54	615.0
	0.930	1525.	2708.0	0.5	14.6	0.0	45.55	615.0
*	0.930	2330.	2709.2	1.2	14.8	0.0	50.57	615.0
*	0.930	725.	2707.6	0.0	1.1	0.0	29.25	40.0
*	0.930	1245.	2708.6	1.1	1.1	0.0	48.11	40.0
*	0.930	1525.	2708.9	0.2	0.9	0.0	49.08	40.0
*	0.930	2330.	2710.4	1.5	1.2	0.0	55.35	40.0
	0.930	725.	2708.1	0.0	0.5	0.0	30.21	12.0
	0.930	1245.	2710.0	1.9	1.3	0.0	53.63	12.0
*	0.930	1525.	2710.3	0.3	1.4	0.0	55.09	12.0
*	0.930	2330.	2711.2	0.9	0.8	0.0	61.47	12.0
	0.930	725.	2708.9	0.0	0.8	0.0	49.16	10.0
	0.930	1245.	2710.6	1.7	0.6	0.0	56.17	10.0
	0.930	1525.	2711.1	0.6	0.8	0.0	60.84	10.0
	0.930	2330.	2712.7	1.5	1.5	0.0	72.91	10.0
	0.970	720.	2709.4	0.0	0.5	0.0	30.07	195.0
	0.970	1235.	2711.0	1.7	0.5	0.0	31.52	195.0
	0.970	1510.	2711.6	0.6	0.5	0.0	32.79	195.0
	0.970	2305.	2713.1	1.5	0.5	0.0	70.41	195.0
	0.970	720.	2709.2	0.0	-0.2	0.0	18.00	20.0
☾	0.970	1235.	2710.6	1.4	-0.4	0.0	18.00	20.0
	0.970	1510.	2711.0	0.4	-0.6	0.0	18.00	20.0
*	0.970	2305.	2713.3	2.3	0.2	0.0	70.13	20.0

	SECNO	Q	ChSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
⊂	0.970	720.	2709.3	0.0	0.0	0.0	18.00	12.0
	0.970	1235.	2710.7	1.5	0.1	0.0	18.00	12.0
	0.970	1510.	2711.2	0.4	0.1	0.0	18.00	12.0
	0.970	2305.	2714.5	3.4	1.2	0.0	103.89	12.0
*	0.970	720.	2710.7	0.0	1.4	0.0	30.39	5.0
*	0.970	1235.	2711.8	1.2	1.1	0.0	38.07	5.0
*	0.970	1510.	2712.5	0.6	1.3	0.0	53.81	5.0
	0.970	2305.	2714.5	2.0	-0.1	0.0	110.24	5.0
	1.090	695.	2726.7	0.0	16.0	0.0	26.97	640.0
*	1.090	1190.	2727.9	1.2	16.0	0.0	39.43	640.0
*	1.090	1455.	2728.5	0.6	16.0	0.0	47.76	640.0
*	1.090	2220.	2730.2	1.7	15.8	0.0	144.38	640.0
*	1.120	695.	2729.5	0.0	2.9	0.0	20.00	140.0
*	1.120	1190.	2731.0	1.4	3.1	0.0	20.00	140.0
*	1.120	1455.	2731.7	0.7	3.2	0.0	20.00	140.0
*	1.120	2220.	2734.3	2.7	4.1	0.0	249.18	140.0
	1.120	695.	2729.8	0.0	0.2	0.0	20.00	33.0
	1.120	1190.	2731.3	1.6	0.3	0.0	20.00	33.0
	1.120	1455.	2732.1	0.7	0.4	0.0	20.00	33.0
*	1.120	2220.	2734.9	2.8	0.6	0.0	371.70	33.0
*	1.120	695.	2730.9	0.0	1.1	0.0	37.97	10.0
⊂	1.120	1190.	2732.1	1.2	0.8	0.0	59.81	10.0
	1.120	1455.	2734.0	1.9	2.0	0.0	227.90	10.0
	1.120	2220.	2735.3	1.2	0.4	0.0	469.62	10.0
*	1.300	660.	2755.4	0.0	24.5	0.0	36.84	1050.0
*	1.300	1125.	2756.6	1.2	24.5	0.0	52.93	1050.0
*	1.300	1375.	2757.2	0.6	23.2	0.0	93.27	1050.0
*	1.300	2055.	2758.6	1.4	23.3	0.0	225.51	1050.0
*	1.460	630.	2789.6	0.0	34.2	0.0	131.46	765.0
*	1.460	1075.	2790.3	0.7	33.8	0.0	196.67	765.0
*	1.460	1315.	2790.6	0.3	33.4	0.0	205.85	765.0
*	1.460	1995.	2791.2	0.6	32.6	0.0	210.00	765.0
*	1.480	630.	2796.7	0.0	7.1	0.0	131.02	100.0
*	1.480	1075.	2797.4	0.7	7.1	0.0	196.98	100.0
*	1.480	1315.	2797.7	0.3	7.1	0.0	205.64	100.0
*	1.480	1995.	2798.3	0.6	7.1	0.0	210.01	100.0
*	1.600	675.	2821.5	0.0	24.8	0.0	129.08	640.0
*	1.600	1030.	2822.3	0.7	24.8	0.0	194.47	640.0
*	1.600	1260.	2822.5	0.3	24.8	0.0	203.20	640.0
*	1.600	1910.	2823.1	0.6	24.8	0.0	209.63	640.0
*	1.710	580.	2837.5	0.0	16.0	0.0	29.07	615.0
⊂	1.710	990.	2838.6	1.1	16.3	0.0	34.16	615.0
	1.710	1210.	2839.1	0.5	16.5	0.0	36.45	615.0
*	1.710	1835.	2840.4	1.4	17.3	0.0	106.29	615.0

	SFCNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
☾	1.720	580.	2841.3	0.0	3.8	0.0	22.00	40.0
	1.720	990.	2842.5	1.2	3.9	0.0	22.00	40.0
*	1.720	1210.	2845.1	2.6	6.0	0.0	269.70	40.0
*	1.720	1835.	2845.3	0.2	4.9	0.0	282.70	40.0
	1.720	580.	2842.2	0.0	0.9	0.0	22.00	12.0
	1.720	990.	2843.5	1.3	1.0	0.0	41.54	12.0
	1.720	1210.	2845.6	2.1	0.5	0.0	302.41	12.0
	1.720	1835.	2846.1	0.5	0.8	0.0	335.63	12.0
*	1.720	580.	2843.2	0.0	1.0	0.0	61.85	10.0
	1.720	990.	2844.8	1.6	1.3	0.0	250.91	10.0
	1.720	1210.	2845.6	0.8	0.1	0.0	305.98	10.0
	1.720	1835.	2846.2	0.5	0.0	0.0	338.67	10.0
*	1.860	555.	2873.9	0.0	30.7	0.0	26.78	715.0
*	1.860	945.	2875.4	1.4	30.5	0.0	158.30	715.0
*	1.860	1155.	2875.7	0.4	30.1	0.0	171.76	715.0
*	1.860	1750.	2876.4	0.7	30.3	0.0	198.64	715.0

SUMMARY OF ERRORS

CAUTION	SFCNO=	0.150	PROFILE=	4	CRITICAL DEPTH ASSUMED
☾ CAUTION	SECNO=	0.270	PROFILE=	1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	0.270	PROFILE=	2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	0.270	PROFILE=	3	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	0.270	PROFILE=	4	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	0.440	PROFILE=	1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	0.440	PROFILE=	1	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	0.440	PROFILE=	1	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=	0.440	PROFILE=	2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	0.440	PROFILE=	2	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	0.440	PROFILE=	2	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=	0.440	PROFILE=	3	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	0.440	PROFILE=	3	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	0.440	PROFILE=	3	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=	0.440	PROFILE=	4	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	0.440	PROFILE=	4	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	0.440	PROFILE=	4	20 TRIALS ATTEMPTED TO BALANCE WSEL
☾ CAUTION	SECNO=	0.600	PROFILE=	1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	0.600	PROFILE=	1	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	0.600	PROFILE=	1	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=	0.600	PROFILE=	2	CRITICAL DEPTH ASSUMED



\*\*\*\*\*  
 HEC2 RELEASE DATE NCV 76 UPDATED JULY 1979  
 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/

BROWN CREEK

SUMMARY PRINTOUT TABLE 150

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRWS
0.040	0.	0.0	0.0	2617.0	895.0	2621.37	2621.1
0.040	0.	0.0	0.0	2617.0	1545.0	2622.28	2622.0
0.040	0.	0.0	0.0	2617.0	1900.0	2622.68	2622.4
0.040	0.	0.0	0.0	2617.0	2915.0	2623.51	2623.3
0.150	580.	0.0	0.0	2622.5	875.0	2628.13	0.0
0.150	580.	0.0	0.0	2622.5	1510.0	2629.41	2629.1
0.150	580.	0.0	0.0	2622.5	1850.0	2629.89	2629.8
0.150	580.	0.0	0.0	2622.5	2840.0	2631.05	2631.0
* 0.270	610.	0.0	0.0	2633.4	855.0	2637.81	2637.8
* 0.270	610.	0.0	0.0	2633.4	1470.0	2640.03	2640.0
* 0.270	610.	0.0	0.0	2633.4	1800.0	2640.64	2640.6
* 0.270	610.	0.0	0.0	2633.4	2765.0	2641.80	2641.8
0.300	150.	0.0	0.0	2634.1	850.0	2640.37	0.0
0.300	150.	0.0	0.0	2634.1	1460.0	2641.87	0.0
0.300	150.	0.0	0.0	2634.1	1790.0	2642.37	0.0
0.300	150.	0.0	0.0	2634.1	2745.0	2643.51	0.0
* 0.440	680.	0.0	0.0	2648.3	820.0	2652.69	2652.6
* 0.440	680.	0.0	0.0	2648.3	1410.0	2654.77	2654.7
* 0.440	680.	0.0	0.0	2648.3	1730.0	2655.19	2655.1
* 0.440	680.	0.0	0.0	2648.3	2650.0	2656.10	2656.1
0.440	40.	0.0	0.0	2648.3	820.0	2653.83	0.0
0.440	40.	0.0	0.0	2648.3	1410.0	2655.44	0.0
0.440	40.	0.0	0.0	2648.3	1730.0	2655.99	0.0
0.440	40.	0.0	0.0	2648.3	2650.0	2656.83	0.0
0.440	1.	2656.4	2654.6	2647.4	820.0	2654.13	0.0
0.440	1.	2656.4	2654.6	2647.4	1410.0	2655.75	0.0
0.440	1.	2656.4	2654.6	2647.4	1730.0	2656.16	0.0
0.440	1.	2656.4	2654.6	2647.4	2650.0	2657.26	0.0
0.440	21.	2656.4	2654.6	2647.4	820.0	2654.25	0.0
0.440	21.	2656.4	2654.6	2647.4	1410.0	2656.00	0.0
0.440	21.	2656.4	2654.6	2647.4	1730.0	2656.42	0.0
0.440	21.	2656.4	2654.6	2647.4	2650.0	2657.46	0.0



SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CR IWS
0.440	1.	0.0	0.0	2648.3	820.0	2654.18	2652.7
0.440	1.	0.0	0.0	2648.3	1410.0	2655.93	0.0
0.440	1.	0.0	0.0	2648.3	1730.0	2656.36	0.0
0.440	1.	0.0	0.0	2648.3	2650.0	2657.33	0.0
0.440	10.	0.0	0.0	2648.3	820.0	2654.35	2652.6
0.440	10.	0.0	0.0	2648.3	1410.0	2656.03	0.0
0.440	10.	0.0	0.0	2648.3	1730.0	2656.38	0.0
0.440	10.	0.0	0.0	2648.3	2650.0	2657.35	0.0
* 0.600	800.	0.0	0.0	2664.5	790.0	2669.54	2669.5
* 0.600	800.	0.0	0.0	2664.5	1360.0	2670.87	2670.8
* 0.600	800.	0.0	0.0	2664.5	1665.0	2671.25	2671.2
* 0.600	800.	0.0	0.0	2664.5	2545.0	2672.54	2672.5
0.720	660.	0.0	0.0	2671.8	765.0	2677.56	0.0
0.720	660.	0.0	0.0	2671.8	1315.0	2678.62	0.0
0.720	660.	0.0	0.0	2671.8	1610.0	2679.18	0.0
0.720	660.	0.0	0.0	2671.8	2460.0	2680.12	0.0
* 0.730	40.	0.0	0.0	2676.8	765.0	2682.53	2682.5
* 0.730	40.	0.0	0.0	2676.8	1315.0	2683.05	2683.0
* 0.730	40.	0.0	0.0	2676.8	1610.0	2683.48	2683.4
* 0.730	40.	0.0	0.0	2676.8	2460.0	2684.75	2684.7
0.730	26.	2683.0	2682.7	2676.8	765.0	2683.46	0.0
0.730	26.	2683.0	2682.7	2676.8	1315.0	2684.44	0.0
0.730	26.	2683.0	2682.7	2676.8	1610.0	2684.87	0.0
* 0.730	26.	2683.0	2682.7	2676.8	2460.0	2685.38	0.0
* 0.730	10.	0.0	0.0	2679.0	765.0	2683.95	2683.9
* 0.730	10.	0.0	0.0	2679.0	1315.0	2685.17	2685.1
* 0.730	10.	0.0	0.0	2679.0	1610.0	2685.68	2685.6
* 0.730	10.	0.0	0.0	2679.0	2460.0	2686.71	2686.7
* 0.800	320.	0.0	0.0	2686.8	750.0	2691.69	2691.6
* 0.800	320.	0.0	0.0	2686.8	1290.0	2692.93	2692.9
* 0.800	320.	0.0	0.0	2686.8	1580.0	2693.42	2693.4
* 0.800	320.	0.0	0.0	2686.8	2415.0	2694.46	2694.4
* 0.930	615.	0.0	0.0	2702.4	725.0	2706.46	2706.4
* 0.930	615.	0.0	0.0	2702.4	1245.0	2707.52	2707.5
* 0.930	615.	0.0	0.0	2702.4	1525.0	2708.01	2708.0
* 0.930	615.	0.0	0.0	2702.4	2330.0	2709.22	2709.2
* 0.930	40.	0.0	0.0	2702.4	725.0	2707.58	2707.5
* 0.930	40.	0.0	0.0	2702.4	1245.0	2708.63	2708.6
* 0.930	40.	0.0	0.0	2702.4	1525.0	2708.86	2708.8
* 0.930	40.	0.0	0.0	2702.4	2330.0	2710.38	2710.3
0.930	12.	2708.0	2707.6	2702.4	725.0	2708.08	0.0
0.930	12.	2708.0	2707.6	2702.4	1245.0	2709.96	0.0
0.930	12.	2708.0	2707.6	2702.4	1525.0	2710.31	0.0
* 0.930	12.	2708.0	2707.6	2702.4	2330.0	2711.19	0.0



	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRWS
☾	0.930	10.	0.0	0.0	2702.4	725.0	2708.88	0.0
	0.930	10.	0.0	0.0	2702.4	1245.0	2710.57	0.0
	0.930	10.	0.0	0.0	2702.4	1525.0	2711.13	0.0
	0.930	10.	0.0	0.0	2702.4	2330.0	2712.67	0.0
	0.970	195.	0.0	0.0	2704.0	720.0	2709.38	0.0
	0.970	195.	0.0	0.0	2704.0	1235.0	2711.04	0.0
	0.970	195.	0.0	0.0	2704.0	1510.0	2711.63	0.0
	0.970	195.	0.0	0.0	2704.0	2305.0	2713.15	0.0
	0.970	20.	0.0	0.0	2704.0	720.0	2709.22	0.0
	0.970	20.	0.0	0.0	2704.0	1235.0	2710.63	0.0
	0.970	20.	0.0	0.0	2704.0	1510.0	2711.02	0.0
*	0.970	20.	0.0	0.0	2704.0	2305.0	2713.31	2713.3
	0.970	12.	2713.8	2713.5	2704.0	720.0	2709.25	0.0
	0.970	12.	2713.8	2713.5	2704.0	1235.0	2710.71	0.0
	0.970	12.	2713.8	2713.5	2704.0	1510.0	2711.16	0.0
	0.970	12.	2713.8	2713.5	2704.0	2305.0	2714.55	0.0
*	0.970	5.	0.0	0.0	2707.6	720.0	2710.69	2710.6
*	0.970	5.	0.0	0.0	2707.6	1235.0	2711.85	2711.8
*	0.970	5.	0.0	0.0	2707.6	1510.0	2712.48	2712.4
	0.970	5.	0.0	0.0	2707.6	2305.0	2714.46	2713.9
☾	1.090	640.	0.0	0.0	2721.6	695.0	2726.69	0.0
	1.090	640.	0.0	0.0	2721.6	1190.0	2727.87	2727.8
	1.090	640.	0.0	0.0	2721.6	1455.0	2728.52	2728.5
*	1.090	640.	0.0	0.0	2721.6	2220.0	2730.24	2730.2
*	1.120	140.	0.0	0.0	2724.6	695.0	2729.55	2729.5
*	1.120	140.	0.0	0.0	2724.6	1190.0	2730.99	2730.9
*	1.120	140.	0.0	0.0	2724.6	1455.0	2731.68	2731.6
*	1.120	140.	0.0	0.0	2724.6	2220.0	2734.35	2734.3
	1.120	33.	2734.5	2732.7	2724.6	695.0	2729.75	0.0
	1.120	33.	2734.5	2732.7	2724.6	1190.0	2731.31	0.0
	1.120	33.	2734.5	2732.7	2724.6	1455.0	2732.05	0.0
*	1.120	33.	2734.5	2732.7	2724.6	2220.0	2734.90	2734.9
*	1.120	10.	0.0	0.0	2726.6	695.0	2730.87	2730.8
*	1.120	10.	0.0	0.0	2726.6	1190.0	2732.10	2732.1
	1.120	10.	0.0	0.0	2726.6	1455.0	2734.03	2732.7
	1.120	10.	0.0	0.0	2726.6	2220.0	2735.28	0.0
*	1.300	1050.	0.0	0.0	2751.2	660.0	2755.39	2755.3
*	1.300	1050.	0.0	0.0	2751.2	1125.0	2756.57	2756.5
*	1.300	1050.	0.0	0.0	2751.2	1375.0	2757.19	2757.1
*	1.300	1050.	0.0	0.0	2751.2	2095.0	2758.61	2758.6
*	1.460	765.	0.0	0.0	2786.4	630.0	2789.61	2789.6
☾	1.460	765.	0.0	0.0	2786.4	1075.0	2790.33	2790.3
	1.460	765.	0.0	0.0	2786.4	1315.0	2790.63	2790.6
*	1.460	765.	0.0	0.0	2786.4	1995.0	2791.22	2791.2

	SECNO	XLCH	ELTRD	ELLC	EL'IN	Q	CWSEL	CRWS
☾	1.480	100.	0.0	0.0	2793.5	630.0	2796.70	2796.7
	1.480	100.	0.0	0.0	2793.5	1075.0	2797.44	2797.4
*	1.480	100.	0.0	0.0	2793.5	1315.0	2797.73	2797.7
*	1.480	100.	0.0	0.0	2793.5	1995.0	2798.32	2798.3
*	1.600	640.	0.0	0.0	2818.4	605.0	2821.54	2821.5
*	1.600	640.	0.0	0.0	2818.4	1030.0	2822.26	2822.2
*	1.600	640.	0.0	0.0	2818.4	1260.0	2822.54	2822.5
*	1.600	640.	0.0	0.0	2818.4	1910.0	2823.12	2823.1
*	1.710	615.	0.0	0.0	2834.2	580.0	2837.51	2837.5
*	1.710	615.	0.0	0.0	2834.2	990.0	2838.59	2838.5
*	1.710	615.	0.0	0.0	2834.2	1210.0	2839.08	2839.0
*	1.710	615.	0.0	0.0	2834.2	1835.0	2840.44	2840.4
*	1.720	40.	2844.2	2843.5	2837.6	580.0	2841.28	2841.2
*	1.720	40.	2844.2	2843.5	2837.6	990.0	2842.49	2842.4
*	1.720	40.	2844.2	2843.5	2837.6	1210.0	2845.10	2845.1
*	1.720	40.	2844.2	2843.5	2837.6	1835.0	2845.29	2845.2
	1.720	12.	2844.2	2843.5	2837.6	580.0	2842.19	0.0
	1.720	12.	2844.2	2843.5	2837.6	990.0	2843.52	2842.4
	1.720	12.	2844.2	2843.5	2837.6	1210.0	2845.58	0.0
	1.720	12.	2844.2	2843.5	2837.6	1835.0	2846.12	0.0
☾	1.720	10.	0.0	0.0	2840.3	580.0	2843.20	2843.2
	1.720	10.	0.0	0.0	2840.3	990.0	2844.83	2844.2
	1.720	10.	0.0	0.0	2840.3	1210.0	2845.63	0.0
	1.720	10.	0.0	0.0	2840.3	1835.0	2846.17	0.0
*	1.860	715.	0.0	0.0	2870.9	555.0	2873.94	2873.9
*	1.860	715.	0.0	0.0	2870.9	945.0	2875.37	2875.3
*	1.860	715.	0.0	0.0	2870.9	1155.0	2875.73	2875.7
*	1.860	715.	0.0	0.0	2870.9	1750.0	2876.44	2876.4

## BROWN CREEK

100 YR FLOODWAY

FLOODWAY DATA, BROWN CREEK  
PROFILE NO. 2

STATION	FLOODWAY		MEAN VELOCITY	WATER SURFACE ELEVATION		DIFFERENCE
	WIDTH (FT)	SECTION AREA		WITH FLOODWAY	WITHOUT FLOODWAY	
0.040	40.	190.	10.0	2623.7	2622.7	1.0
0.150	30.	193.	9.6	2630.7	2629.9	0.8
0.270	30.	145.	12.4	2640.6	2640.6	0.0
0.300	30.	214.	6.4	2643.0	2642.4	0.6
0.440 D.S. *	100.	240.	7.2	2655.2	2655.2	0.0
0.440	100.	266.	4.7	2656.2	2656.0	0.2
0.440	100.	245.	7.0	2656.2	2656.2	0.0
0.440	100.	237.	5.1	2657.1	2656.4	0.7
0.440	100.	475.	3.6	2657.2	2656.4	0.8
0.440 U.S. *	100.	476.	3.6	2657.2	2656.4	0.8
0.600	60.	190.	8.9	2671.7	2671.2	0.5
0.720	60.	246.	6.6	2679.9	2679.2	0.7
0.730 D.S. *	60.	207.	7.8	2684.3	2683.5	0.8
0.730	60.	329.	4.9	2686.3	2684.9	1.4
0.730 U.S. *	60.	186.	8.7	2686.1	2685.7	0.4
0.800	60.	182.	8.7	2693.9	2693.4	0.5
0.920 D.S. *	45.	142.	10.8	2708.0	2708.0	0.0
0.920	45.	176.	6.7	2708.9	2708.9	0.0
0.920	45.	231.	6.6	2710.3	2710.3	0.0
0.930 U.S. *	45.	277.	5.5	2711.1	2711.1	0.0
0.970 D.S. *	35.	206.	7.3	2711.7	2711.6	0.1
0.970	35.	124.	12.2	2711.1	2711.0	0.1
0.970	35.	126.	12.0	2711.2	2711.2	0.0
0.970 U.S. *	35.	133.	11.4	2712.5	2712.5	0.0
1.050	40.	120.	11.3	2720.5	2720.5	0.0
1.120 D.S. *	40.	109.	13.4	2731.7	2731.7	0.0
1.120	40.	116.	12.5	2732.1	2732.1	0.0
1.120 U.S. *	40.	157.	9.3	2734.0	2734.0	0.0
1.200	40.	130.	10.7	2757.2	2757.2	0.0
1.460	40.	127.	10.4	2791.0	2790.6	0.4
1.480	40.	127.	10.4	2798.1	2797.7	0.4
1.600	40.	123.	10.2	2822.9	2822.5	0.4
1.710	50.	116.	10.3	2839.1	2839.1	0.0
1.720 D.S. *	50.	95.	12.7	2845.1	2845.1	0.0
1.720	50.	103.	11.7	2845.6	2845.6	0.0
1.720 U.S. *	50.	195.	6.2	2845.6	2845.6	0.0
1.860	30.	107.	10.8	2875.7	2875.7	0.0

\* DOWNSTREAM AND UPSTREAM @ BRIDGES

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 HEC2 RELEASE DATED NOV 76 UPDATED JULY 1979  
 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/

BROWN CREEK

SUMMARY PRINTOUT TABLE 110

SECNO	CWSFL	DIFKWS	EG	TOPWID	PERENC	STENCL	STENCR
0.040	2622.69	0.0	2623.63	250.	0.	0.	0.
0.040	2623.66	0.98	2625.44	40.	40.	205.	245.
0.150	2629.89	0.0	2631.33	167.	0.	0.	0.
0.150	2630.67	0.78	2632.38	30.	30.	280.	310.
* 0.270	2640.64	0.0	2642.01	160.	0.	0.	0.
* 0.270	2639.59	-0.65	2642.67	30.	30.	280.	310.
0.300	2642.37	0.0	2643.01	209.	0.	0.	0.
0.300	2642.97	0.60	2644.27	30.	30.	280.	310.
* 0.440	2655.19	0.0	2656.22	306.	0.	0.	0.
* 0.440	2654.87	-0.31	2656.66	100.	100.	75.	175.
0.440	2655.99	0.0	2656.45	318.	0.	0.	0.
0.440	2656.18	0.19	2657.00	100.	100.	75.	175.
0.440	2656.16	0.0	2656.47	300.	0.	0.	0.
0.440	2655.96	-0.21	2657.24	85.	100.	75.	175.
0.440	2656.42	0.0	2656.65	316.	0.	0.	0.
0.440	2657.12	0.70	2657.75	100.	100.	75.	175.
0.440	2656.36	0.0	2656.72	324.	0.	0.	0.
0.440	2657.23	0.87	2657.77	100.	100.	75.	175.
0.440	2656.38	0.0	2656.75	325.	0.	0.	0.
0.440	2657.23	0.85	2657.82	100.	100.	75.	175.
* 0.600	2671.25	0.0	2672.81	125.	0.	0.	0.
* 0.600	2671.70	0.45	2673.83	60.	60.	140.	200.
0.720	2679.18	0.0	2680.14	180.	0.	0.	0.
0.720	2679.92	0.73	2681.24	60.	60.	140.	200.
* 0.730	2683.48	0.0	2685.04	119.	0.	0.	0.
* 0.730	2684.28	0.80	2686.03	60.	60.	140.	200.

	SECNO	CWSFL	DIFKWS	EG	TOPWID	PERENC	STENCL	STENCR
*	0.730	2684.87	0.0	2685.47	214.	0.	0.	0.
(	0.730	2686.32	1.44	2687.11	60.	60.	140.	200.
*	0.730	2685.68	0.0	2686.96	126.	0.	0.	0.
*	0.730	2686.12	0.45	2688.12	60.	60.	140.	200.
*	0.800	2693.42	0.0	2694.71	125.	0.	0.	0.
*	0.800	2693.86	0.44	2695.84	60.	60.	140.	200.
*	0.930	2708.01	0.0	2709.77	46.	0.	0.	0.
*	0.930	2707.98	-0.03	2709.82	40.	45.	50.	95.
*	0.930	2708.86	0.0	2711.00	49.	0.	0.	0.
*	0.930	2708.83	-0.03	2711.14	42.	45.	50.	95.
*	0.930	2710.31	0.0	2711.45	55.	0.	0.	0.
*	0.930	2710.11	-0.20	2711.49	44.	45.	50.	95.
	0.930	2711.13	0.0	2711.56	61.	0.	0.	0.
	0.930	2711.15	0.02	2711.63	45.	45.	50.	95.
	0.970	2711.63	0.0	2712.48	33.	0.	0.	0.
	0.970	2711.71	0.08	2712.54	34.	35.	115.	150.
	0.970	2711.02	0.0	2713.40	18.	0.	0.	0.
	0.970	2711.12	0.09	2713.43	18.	35.	115.	150.
(	0.970	2711.16	0.0	2713.44	18.	0.	0.	0.
	0.970	2711.24	0.08	2713.47	18.	35.	115.	150.
*	0.970	2712.48	0.0	2714.37	54.	0.	0.	0.
*	0.970	2712.35	-0.13	2714.40	34.	35.	115.	150.
*	1.090	2728.52	0.0	2730.39	48.	0.	0.	0.
*	1.090	2728.38	-0.14	2730.44	33.	40.	440.	480.
*	1.120	2731.68	0.0	2734.42	20.	0.	0.	0.
*	1.120	2731.64	-0.04	2734.42	20.	40.	440.	480.
	1.120	2732.05	0.0	2734.46	20.	0.	0.	0.
	1.120	2732.03	-0.03	2734.45	20.	40.	440.	480.
	1.120	2734.03	0.0	2734.69	228.	0.	0.	0.
	1.120	2733.21	-0.82	2734.66	40.	40.	440.	480.
*	1.300	2757.19	0.0	2758.74	93.	0.	0.	0.
*	1.300	2757.04	-0.15	2758.93	35.	40.	440.	480.
*	1.460	2790.62	0.0	2791.50	206.	0.	0.	0.
*	1.460	2790.95	0.32	2792.74	40.	40.	410.	450.
*	1.480	2797.73	0.0	2798.60	206.	0.	0.	0.
(	1.480	2798.06	0.33	2799.84	40.	40.	410.	450.
*	1.600	2822.54	0.0	2823.42	203.	0.	0.	0.
*	1.600	2822.86	0.32	2824.59	40.	40.	410.	450.

	SECNO	CHSEL	DIFKWS	EG	TOPWID	PERENC	STENCL	STENCR
*	1.710	2835.08	0.0	2840.70	36.	0.	0.	0.
*	1.710	2835.06	-0.02	2840.70	36.	50.	400.	450.
*	1.720	2845.10	0.0	2845.52	270.	0.	0.	0.
*	1.720	2842.84	-2.26	2845.34	22.	50.	400.	450.
	1.720	2845.58	0.0	2845.79	302.	0.	0.	0.
	1.720	2842.83	-1.75	2845.99	29.	50.	400.	450.
	1.720	2845.63	0.0	2845.87	306.	0.	0.	0.
	1.720	2845.60	-0.04	2846.31	50.	50.	400.	450.
*	1.860	2875.73	0.0	2876.73	172.	0.	0.	0.
*	1.860	2875.47	-0.26	2877.28	30.	30.	180.	210.

SUMMARY OF ERRORS

CAUTION SECNO= 0.270 PROFILE= 1 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 0.270 PROFILE= 2 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.440 PROFILE= 1 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 0.440 PROFILE= 1  
PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 0.440 PROFILE= 1  
20 TRIALS ATTEMPTED TO BALANCE WSEL  
CAUTION SECNO= 0.440 PROFILE= 2 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 0.440 PROFILE= 2  
PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 0.440 PROFILE= 2  
20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 0.600 PROFILE= 1 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 0.600 PROFILE= 1  
PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 0.600 PROFILE= 1  
20 TRIALS ATTEMPTED TO BALANCE WSEL  
CAUTION SECNO= 0.600 PROFILE= 2 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 0.600 PROFILE= 2  
PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 0.600 PROFILE= 2  
20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 0.720 PROFILE= 1 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 0.720 PROFILE= 1  
PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 0.720 PROFILE= 1  
20 TRIALS ATTEMPTED TO BALANCE WSEL  
CAUTION SECNO= 0.720 PROFILE= 2 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 0.720 PROFILE= 2  
PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 0.720 PROFILE= 2  
20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 0.720 PROFILE= 1 HYDRAULIC JUMP D.S.  
CAUTION SECNO= 0.720 PROFILE= 1 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 0.720 PROFILE= 1