

SUMMARY OF ERRORS AND SPECIAL NOTES

BLACK

RIVER

THIS RUN EXECUTED 07-30-87 17:03:44

 HEC2 RELEASE DATED NOV 76 UPDATED MAY 1984
 ERROR CORR - 01,02,03,04,05,06
 MODIFICATION - 50,51,52,53,54,55,56
 IBM-PC-XI VERSION AUGUST 1985

C
 T1 HAYES, SEAY, MATTERN & MATTERN HARNETT CO, NC FIS
 T2 FILENAME: BR.REC ENG:SKE ET:KMC/EKL COMM 2340A
 T3 BLACK RIVER - COE DATE: 7/28/87 10-YEAR EVENT

J1	ICHECK	INC	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FO
	0.	2.	0.	0.	.000414	.00	.0	0.	148.770	.000

J2	NPROF	IPLT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	1.000	.000	-1.000	.000	.000	.000	.000	.000	.000	.000

J3 VARIABLE CODES FOR SUMMARY PRINTOUT

	150.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
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QT	5.000	1950.000	4090.000	5650.000	11100.000	5650.000	.000	.000	.000	.000
NC	.200	.200	.035	.100	.300	.000	.030	.000	.000	.000
ET	.000	.000	.000	.000	.000	9.100	.000	.000	200.000	1300.000

ON THE QT CARDS, THE DISCHARGES ARE AS FOLLOWS:

FIELD #2	#3	#4	#5
Q# 10-YEAR	50-YEAR	100-YEAR	500-YEAR

CROSS SECTION A

X1	38000.000	18.000	810.000	855.600	.000	.000	.000	.000	.000	.000
GR	159.000	.000	149.000	200.000	145.200	400.000	145.200	810.000	142.000	812.000
GR	141.800	815.500	141.800	815.500	141.800	815.800	140.800	835.000	141.800	843.300
GR	141.800	850.500	145.200	855.600	145.000	1100.000	149.300	1300.000	149.000	1940.000
GR	152.000	2400.000	154.000	2800.000	159.000	3200.000	.000	.000	.000	.000
ET	.000	.000	.000	.000	.000	9.100	.000	.000	200.000	1200.000
X1	39800.000	19.000	809.600	856.300	800.000	800.000	800.000	.000	.000	.000
GR	159.500	.000	149.600	200.000	145.800	400.000	145.800	809.600	145.400	810.200
GR	142.600	812.000	142.500	814.700	141.900	815.500	141.900	825.400	141.400	835.000
GR	141.900	839.200	141.900	850.500	145.800	856.300	145.600	1100.000	149.900	1300.000
GR	149.600	1940.000	152.600	2400.000	154.600	2800.000	159.600	3200.000	.000	.000

ET	.000	.000	.000	.000	.000	9.100	.000	.000	350.000	1450.000
X1	50300.000	9.000	599.900	650.300	750.000	750.000	750.000	.000	.400	.000
GR	168.500	.000	155.500	400.000	155.700	599.900	149.300	609.500	149.300	639.500
GR	156.500	650.300	156.500	1700.000	158.500	2400.000	168.500	3400.000	.000	.000

ET	.000	.000	.000	.000	.000	9.100	.000	.000	350.000	1450.000
X1	50750.000	9.000	601.700	648.100	450.000	450.000	450.000	.000	.000	.000
GR	168.500	.000	156.000	400.000	156.000	601.700	150.800	609.500	150.800	639.500
GR	156.500	648.100	156.500	1700.000	158.500	2400.000	168.500	3400.000	.000	.000

ET	.000	.000	.000	.000	.000	9.100	.000	.000	350.000	1450.000
X1	51000.000	9.000	602.500	647.300	250.000	250.000	250.000	.000	.000	.000
GR	168.700	.000	156.200	400.000	156.200	602.500	151.500	609.500	151.500	639.500
GR	156.700	647.300	156.700	1700.000	158.700	2400.000	168.700	3400.000	.000	.000

ET	.000	.000	.000	.000	.000	9.100	.000	.000	350.000	1450.000
X1	51050.000	9.000	599.500	650.300	50.000	50.000	50.000	.000	.200	.000
GR	168.700	.000	156.200	400.000	156.200	599.500	149.500	609.500	149.500	639.500
GR	156.700	650.300	156.700	1700.000	158.700	2400.000	168.700	3400.000	.000	.000

ET	.000	.000	.000	.000	.000	9.100	.000	.000	900.000	2000.000
X1	51350.000	19.000	1296.400	1344.600	300.000	300.000	300.000	.000	.000	.000
GR	170.000	.000	156.000	900.000	156.000	1296.400	149.900	1305.500	149.900	1335.500
GR	156.000	1344.600	156.000	1600.000	157.500	2200.000	165.000	2800.000	170.000	3300.000

NC	.080	.080	.035	.100	.300	.000	.000	.000	.000	.000
ET	.000	.000	.000	.000	.000	9.100	.000	.000	808.000	951.000

CROSS SECTION B

X1	51360.000	19.000	800.000	958.000	10.000	10.000	10.000	.000	.000	.000
GR	170.000	.000	163.000	200.000	162.500	400.000	161.700	600.000	162.800	800.000
GR	156.400	821.000	156.900	885.000	149.900	900.500	149.900	930.500	157.600	942.100
GR	158.700	946.000	162.700	958.000	161.200	1200.000	161.100	1600.000	160.700	1800.000
GR	161.800	2000.000	162.700	2200.000	166.000	2400.000	170.000	3000.000	.000	.000

ET	.000	.000	.000	.000	.000	9.100	.000	.000	808.000	951.000
X1	51370.000	19.000	800.000	958.000	10.000	10.000	10.000	.000	.000	.000
GR	170.000	.000	163.000	200.000	162.500	400.000	161.700	600.000	162.800	800.000
GR	156.400	821.000	156.900	885.000	149.900	900.500	149.900	930.500	157.600	942.100
GR	158.700	946.000	162.700	958.000	161.200	1200.000	161.100	1600.000	160.700	1800.000
GR	161.800	2000.000	162.700	2200.000	166.000	2400.000	170.000	3000.000	.000	.000

NC	.200	.200	.035	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	.000	.000	9.100	.000	.000	1100.000	1800.000
X1	51400.000	10.000	1296.400	1344.600	30.000	30.000	30.000	.000	.000	.000
GR	170.000	.000	156.000	900.000	156.000	1296.400	149.900	1305.500	149.900	1335.500
GR	156.000	1344.600	156.000	1600.000	157.500	2200.000	165.000	2800.000	170.000	3300.000

THIS RUN EXECUTED 07-30-87 17:09:15

 HEC2 RELEASE DATED NOV 76 UPDATED MAY 1984
 ERROR CORR - 01,02,03,04,05,06
 MODIFICATION - 50,51,52,53,54,55,56
 IBM-PC XT VERSION AUGUST 1985

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

BLACK RIVER - COE

SUMMARY PRINTOUT TABLE 150

SECHO	XLCH	ELTRD	ELLC	ELMIN	Q	CHSEL	CRWS	EG	10K*S	VCH	AREA	.01K
A 38000.000	.00	.00	.00	140.80	1950.00	148.77	.00	148.84	4.11	3.02	3345.54	962.17
38000.000	.00	.00	.00	140.80	4080.00	150.83	.00	150.91	4.15	3.60	6969.05	2003.87
38000.000	.00	.00	.00	140.80	5650.00	151.90	.00	151.98	4.14	3.88	9269.46	2777.68
38000.000	.00	.00	.00	140.80	11100.00	154.51	.00	154.59	4.77	4.59	15844.60	5370.04
38800.000	800.00	.00	.00	141.40	1950.00	149.11	.00	149.20	4.75	3.20	3078.49	895.05
38800.000	800.00	.00	.00	141.40	4080.00	151.17	.00	151.26	4.76	3.82	6446.59	1870.38
38800.000	300.00	.00	.00	141.40	5650.00	152.24	.00	152.33	4.69	4.09	8695.34	2610.31
38800.000	800.00	.00	.00	141.40	11100.00	154.86	.00	154.95	4.71	4.78	15147.56	5115.33
39600.000	800.00	.00	.00	142.00	1950.00	149.50	.00	149.60	5.27	3.36	2870.30	849.12
39600.000	800.00	.00	.00	142.00	4080.00	151.56	.00	151.67	5.28	4.01	6040.64	1775.31
39600.000	800.00	.00	.00	142.00	5650.00	152.63	.00	152.73	5.17	4.28	8236.06	2484.57
39600.000	800.00	.00	.00	142.00	11100.00	155.24	.00	155.35	5.09	4.96	14582.80	4919.31
41200.000	1600.00	.00	.00	142.50	1950.00	150.35	.00	150.47	5.46	3.51	2553.34	834.46
41200.000	1600.00	.00	.00	142.50	4080.00	152.42	.00	152.56	5.72	4.26	5413.98	1705.61
41200.000	1600.00	.00	.00	142.50	5650.00	153.47	.00	153.61	5.68	4.56	7519.02	2371.26
41200.000	1600.00	.00	.00	142.50	11100.00	156.08	.00	156.21	5.59	5.27	13642.32	4694.42
B 42800.000	1600.00	.00	.00	142.80	1950.00	151.20	.00	151.34	5.36	3.57	2280.35	842.47
42800.000	1600.00	.00	.00	142.80	4080.00	153.33	.00	153.49	5.83	4.40	4911.74	1689.30
42800.000	1600.00	.00	.00	142.80	5650.00	154.37	.00	154.56	5.89	4.74	6961.88	2327.92
42800.000	1600.00	.00	.00	142.80	11100.00	156.97	.00	157.14	5.89	5.50	12913.34	4572.83
44400.000	1600.00	.00	.00	143.70	1950.00	152.09	.00	152.26	6.11	3.77	2016.85	788.69
44400.000	1600.00	.00	.00	143.70	4080.00	154.29	.00	154.48	6.39	4.59	4493.10	1614.10
44400.000	1600.00	.00	.00	143.70	5650.00	155.34	.00	155.53	6.43	4.94	6515.98	2228.03
44400.000	1600.00	.00	.00	143.70	11100.00	157.94	.00	158.13	6.37	5.70	12343.22	4397.18
45700.000	1300.00	.00	.00	144.90	1950.00	152.96	.00	153.17	7.83	4.14	1725.88	696.66
45700.000	1300.00	.00	.00	144.90	4080.00	155.17	.00	155.40	7.73	4.94	3954.93	1467.78
45700.000	1300.00	.00	.00	144.90	5650.00	156.23	.00	156.46	7.72	5.31	5906.92	2033.73
45700.000	1300.00	.00	.00	144.90	11100.00	158.81	.00	159.03	7.42	6.05	11540.35	4073.63

SECNO	XLCH	ELTRD	ELLC	ELMH	Q	CUSEL	CRINS	EG	10K*S	VCH	AREA	.01K
45710.000	10.00	.00	.00	144.90	1950.00	153.01	.00	153.18	10.30	3.34	584.08	607.50
45710.000	10.00	.00	.00	144.90	4090.00	155.41	.00	155.42	.78	1.24	5126.47	4605.69
45710.000	10.00	.00	.00	144.90	5650.00	156.47	.00	156.48	.61	1.21	7160.40	7258.35
45710.000	10.00	.00	.00	144.90	11100.00	159.04	.00	159.05	.45	1.28	12934.08	16484.11
45740.000	30.00	154.20	155.80	144.90	1950.00	153.04	.00	153.21	10.06	3.31	588.71	614.89
45740.000	30.00	154.20	155.80	144.90	4090.00	155.54	.00	155.55	.69	1.18	5372.13	4904.40
45740.000	30.00	154.20	155.80	144.90	5650.00	156.58	.00	156.59	.55	1.17	7395.16	7589.12
45740.000	30.00	154.20	155.80	144.90	11100.00	159.14	.00	159.16	.43	1.25	13216.11	16984.46
45750.000	10.00	.00	.00	144.90	1950.00	153.04	.00	153.22	6.93	2.90	2187.29	740.65
45750.000	10.00	.00	.00	144.90	4090.00	155.46	.00	155.58	4.86	3.98	6307.79	1850.63
45750.000	10.00	.00	.00	144.90	5650.00	156.50	.00	156.62	4.73	4.22	8489.35	2597.40
45750.000	10.00	.00	.00	144.90	11100.00	159.07	.00	159.19	4.28	4.96	14306.46	5022.19
45800.000	50.00	.00	.00	145.00	1950.00	153.09	.00	153.25	6.51	3.77	2423.94	764.52
45800.000	50.00	.00	.00	145.00	4090.00	155.50	.00	155.61	4.47	3.82	6612.63	1928.74
45800.000	50.00	.00	.00	145.00	5650.00	156.54	.00	156.65	4.43	4.07	8758.56	2684.04
45800.000	50.00	.00	.00	145.00	11100.00	159.10	.00	159.21	4.72	4.86	14465.29	5111.82
46600.000	800.00	.00	.00	145.60	1950.00	153.63	.00	153.85	8.06	4.15	1911.40	686.72
46600.000	800.00	.00	.00	145.60	4090.00	155.88	.00	156.04	6.24	4.41	5336.22	1633.46
46600.000	800.00	.00	.00	145.60	5650.00	156.92	.00	157.07	5.96	4.63	7655.08	2314.70
46600.000	800.00	.00	.00	145.60	11100.00	159.49	.00	159.64	5.77	5.30	13371.82	4622.44
47300.000	700.00	.00	.00	148.20	1950.00	154.35	.00	154.61	14.93	4.94	1968.96	504.63
47300.000	700.00	.00	.00	148.20	4090.00	156.41	.00	156.59	9.56	4.88	5319.08	1319.26
47300.000	700.00	.00	.00	148.20	5650.00	157.42	.00	157.57	8.51	5.00	7361.72	1936.93
47300.000	700.00	.00	.00	148.20	11100.00	159.96	.00	160.09	7.31	5.52	12982.56	4105.00
47350.000	50.00	.00	.00	146.30	1950.00	154.45	.00	154.67	8.84	4.33	2034.98	655.90
47350.000	50.00	.00	.00	146.30	4090.00	156.44	.00	156.63	7.72	4.80	5261.47	1468.75
47350.000	50.00	.00	.00	146.30	5650.00	157.44	.00	157.61	7.32	5.02	7289.41	2088.42
47350.000	50.00	.00	.00	146.30	11100.00	159.98	.00	160.14	6.78	5.63	12875.16	4262.10
48450.000	1100.00	.00	.00	147.30	1950.00	155.46	.00	155.73	10.26	4.62	1535.16	608.82
48450.000	1100.00	.00	.00	147.30	4090.00	157.36	.00	157.66	10.77	5.59	3641.13	1243.36
48450.000	1100.00	.00	.00	147.30	5650.00	158.33	.00	158.64	11.27	6.13	4935.39	1683.23
48450.000	1100.00	.00	.00	147.30	11100.00	160.82	.00	161.15	11.54	7.23	9174.45	3267.31
49550.000	1100.00	.00	.00	148.30	1900.00	156.55	.00	156.79	9.01	4.37	1624.06	632.81
49550.000	1100.00	.00	.00	148.30	3970.00	158.50	.00	158.74	8.88	5.12	3809.82	1298.95
49550.000	1100.00	.00	.00	148.30	5350.00	159.51	.00	159.76	9.05	5.56	5205.37	1778.55
49550.000	1100.00	.00	.00	148.30	10900.00	162.04	.00	162.33	9.96	6.80	9688.61	3453.16
50300.000	750.00	.00	.00	148.90	1900.00	157.23	.00	157.43	7.95	4.14	2230.57	673.67
50300.000	750.00	.00	.00	148.90	3070.00	159.15	.00	159.28	5.69	4.12	6178.78	1622.66
50300.000	750.00	.00	.00	148.90	5350.00	160.16	.00	160.27	5.17	4.22	8510.19	2353.40
50300.000	750.00	.00	.00	148.90	10900.00	162.76	.00	162.86	5.01	4.85	15069.36	4870.50

132065

2

SECNO	XLLH	ELTRD	ELLC	ELMIN	Q	CWSEL	CR1WS	EG	10K*5	VCH	AREA	.01K
50750.000	450.00	.00	.00	150.80	1900.00	157.65	.00	157.92	14.01	4.95	2083.00	507.59
50750.000	450.00	.00	.00	150.80	3870.00	159.45	.00	159.59	8.40	4.58	5752.16	1335.17
50750.000	450.00	.00	.00	150.80	5350.00	160.43	.00	160.55	7.16	4.58	7989.03	1999.84
50750.000	450.00	.00	.00	150.80	10900.00	163.01	.00	163.11	6.19	5.07	14445.36	4380.51
51000.000	250.00	.00	.00	151.50	1900.00	158.04	.00	158.26	13.12	4.71	2411.86	524.64
51000.000	250.00	.00	.00	151.50	3870.00	159.67	.00	159.80	8.97	4.61	5785.91	1292.02
51000.000	250.00	.00	.00	151.50	5350.00	160.62	.00	160.73	7.70	4.63	7944.74	1927.49
51000.000	250.00	.00	.00	151.50	10900.00	163.17	.00	163.27	6.56	5.10	14325.72	4256.31
51050.000	50.00	.00	.00	149.70	1900.00	158.11	.00	158.31	7.77	4.10	2265.51	681.51
51050.000	50.00	.00	.00	149.70	3870.00	159.69	.00	159.86	7.34	4.57	5475.11	1428.26
51050.000	50.00	.00	.00	149.70	5350.00	160.63	.00	160.78	6.73	4.69	7599.87	2062.01
51050.000	50.00	.00	.00	149.70	10900.00	163.18	.00	163.31	6.15	5.25	13912.17	4395.83
51350.000	300.00	.00	.00	149.90	1900.00	158.39	.00	158.50	4.81	3.35	3114.47	866.04
51350.000	300.00	.00	.00	149.90	3870.00	159.93	.00	160.06	5.84	4.19	5636.35	1601.91
51350.000	300.00	.00	.00	149.90	5350.00	160.84	.00	160.97	6.11	4.57	7300.68	2164.40
51350.000	300.00	.00	.00	149.90	10900.00	163.36	.00	163.51	6.77	5.61	12486.15	4188.36
51360.000	10.00	.00	.00	149.90	1900.00	158.32	.00	158.54	14.31	3.84	495.27	502.32
51360.000	10.00	.00	.00	149.90	3870.00	159.67	.00	160.18	22.77	5.71	677.82	810.95
51360.000	10.00	.00	.00	149.90	5350.00	160.44	.00	161.16	27.75	6.80	786.65	1015.51
51360.000	10.00	.00	.00	149.90	10900.00	163.08	.00	163.65	18.87	6.92	3652.42	2509.31
51370.000	10.00	.00	.00	149.90	1900.00	158.33	.00	158.56	14.20	3.83	496.50	504.23
51370.000	10.00	.00	.00	149.90	3870.00	159.70	.00	160.20	22.51	5.69	680.39	815.62
51370.000	10.00	.00	.00	149.90	5350.00	160.48	.00	161.19	27.44	6.78	789.66	1021.34
51370.000	10.00	.00	.00	149.90	10900.00	163.10	.00	163.67	18.78	6.90	3663.64	2515.38
51400.000	30.00	.00	.00	149.90	1900.00	158.49	.00	158.59	4.39	3.23	3272.33	906.99
51400.000	30.00	.00	.00	149.90	3870.00	160.16	.00	160.27	4.98	3.93	6044.21	1734.88
51400.000	30.00	.00	.00	149.90	5350.00	161.17	.00	161.28	5.03	4.24	7918.55	2385.65
51400.000	30.00	.00	.00	149.90	10900.00	163.60	.00	163.74	6.10	5.39	13016.07	4413.81
51500.000	100.00	.00	.00	150.00	1900.00	158.53	.00	158.65	4.95	3.40	3025.71	854.32
51500.000	100.00	.00	.00	150.00	3870.00	160.20	.00	160.33	5.45	4.09	5755.78	1657.11
51500.000	100.00	.00	.00	150.00	5350.00	161.21	.00	161.34	5.46	4.39	7613.44	2290.55
51500.000	100.00	.00	.00	150.00	10900.00	163.65	.00	163.80	6.44	5.52	12689.91	4293.65
52500.000	1000.00	.00	.00	150.90	1900.00	159.10	.00	159.32	8.68	4.30	1972.22	645.00
52500.000	1000.00	.00	.00	150.90	3870.00	160.81	.00	161.02	8.32	4.88	4607.10	1341.49
52500.000	1000.00	.00	.00	150.90	5350.00	161.82	.00	162.01	7.93	5.13	6343.46	1900.38
52500.000	1000.00	.00	.00	150.90	10900.00	164.34	.00	164.54	8.22	6.10	11358.51	3802.34
52900.000	400.00	.00	.00	151.30	1900.00	159.41	.00	159.79	13.22	5.14	880.35	522.50
52900.000	400.00	.00	.00	151.30	3870.00	161.09	.00	161.52	14.78	6.32	2904.20	1006.64
52900.000	400.00	.00	.00	151.30	5350.00	162.09	.00	162.46	13.17	6.43	4766.71	1474.40
52900.000	400.00	.00	.00	151.30	10900.00	164.66	.00	164.95	11.06	6.94	9959.46	3277.07

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRWS	EG	10K'S	VCH	AREA	.01K
53800.000	900.00	.00	.00	152.10	1900.00	160.55	.00	160.86	10.62	4.74	1138.04	583.06
53800.000	900.00	.00	.00	152.10	3870.00	162.35	.00	162.67	10.90	5.61	3568.73	1172.23
53800.000	900.00	.00	.00	152.10	5350.00	163.23	.00	163.54	10.78	5.95	5251.81	1629.76
53800.000	900.00	.00	.00	152.10	10900.00	165.64	.00	165.92	10.44	6.80	10153.96	3374.21
54200.000	400.00	.00	.00	153.50	1900.00	161.00	.00	161.30	11.56	4.76	1280.69	558.77
54200.000	400.00	.00	.00	153.50	3870.00	162.83	.00	163.10	10.37	5.33	4075.42	1201.53
54200.000	400.00	.00	.00	153.50	5350.00	163.71	.00	163.96	9.73	5.52	6080.13	1715.29
54200.000	400.00	.00	.00	153.50	10900.00	166.11	.00	166.31	8.60	6.07	12047.10	3715.92
54500.000	300.00	.00	.00	154.60	1900.00	161.38	.00	161.69	14.16	5.02	1432.85	504.89
54500.000	300.00	.00	.00	154.60	3870.00	163.18	.00	163.42	11.12	5.31	4370.19	1160.65
54500.000	300.00	.00	.00	154.60	5350.00	164.05	.00	164.26	10.24	5.47	6345.24	1671.89
54500.000	300.00	.00	.00	154.60	10900.00	166.39	.00	166.57	8.96	6.01	12228.04	3640.91
54550.000	50.00	.00	.00	152.60	1900.00	161.57	.00	161.75	5.73	3.72	1762.66	793.75
54550.000	50.00	.00	.00	152.60	3870.00	163.26	.00	163.47	6.72	4.61	4655.26	1493.30
54550.000	50.00	.00	.00	152.60	5350.00	164.09	.00	164.30	7.00	4.98	6572.28	2021.76
54550.000	50.00	.00	.00	152.60	10900.00	166.42	.00	166.62	7.18	5.80	12436.51	4067.43
54850.000	300.00	.00	.00	153.00	1900.00	161.74	.00	161.94	7.03	3.94	1431.49	716.68
54850.000	300.00	.00	.00	153.00	3870.00	163.44	.00	163.73	9.12	5.18	3191.77	1281.66
54850.000	300.00	.00	.00	153.00	5350.00	164.26	.00	164.59	10.46	5.88	4412.91	1654.50
54850.000	300.00	.00	.00	153.00	10900.00	166.58	.00	166.93	11.07	7.00	9457.92	3276.40
56150.000	1300.00	.00	.00	154.20	1900.00	162.70	.00	162.95	8.30	4.19	1235.84	659.65
56150.000	1300.00	.00	.00	154.20	3870.00	164.62	.00	164.92	9.19	5.19	3177.95	1276.86
56150.000	1300.00	.00	.00	154.20	5350.00	165.59	.00	165.90	9.64	5.70	4651.40	1723.19
56150.000	1300.00	.00	.00	154.20	10900.00	167.98	.00	168.29	9.94	6.70	9945.44	3457.42
56800.000	650.00	.00	.00	154.80	1850.00	163.25	.00	163.54	9.55	4.40	769.73	598.79
56800.000	650.00	.00	.00	154.80	3750.00	165.22	.00	165.63	11.92	5.70	2296.03	1086.25
56800.000	650.00	.00	.00	154.80	5200.00	166.21	.00	166.64	12.36	6.26	3494.08	1479.00
56800.000	650.00	.00	.00	154.80	10800.00	168.61	.00	169.13	14.47	7.88	7265.78	2839.03
56810.000	10.00	.00	.00	154.80	1850.00	163.25	.00	163.55	9.92	4.41	419.48	587.26
56810.000	10.00	.00	.00	154.80	3750.00	165.62	.00	165.67	2.71	2.42	2584.97	2278.16
56810.000	10.00	.00	.00	154.80	5200.00	166.64	.00	166.69	2.07	2.32	3739.38	3612.93
56810.000	10.00	.00	.00	154.80	10800.00	169.14	.00	169.18	1.42	2.31	7993.13	9056.61
56840.000	30.00	165.20	166.70	154.80	1850.00	163.29	.00	163.59	9.77	4.39	421.72	591.84
56840.000	30.00	165.20	166.70	154.80	3750.00	166.22	.00	166.25	1.55	1.93	3243.38	3015.54
56840.000	30.00	165.20	166.70	154.80	5200.00	167.25	.00	167.28	1.28	1.92	4500.34	4588.24
56840.000	30.00	165.20	166.70	154.80	10800.00	169.38	.00	169.42	1.22	2.17	8486.77	9782.15
56850.000	10.00	.00	.00	154.80	1850.00	163.32	.00	163.60	9.15	4.33	807.90	611.63
56850.000	10.00	.00	.00	154.80	3750.00	166.08	.00	166.32	6.97	4.65	3324.45	1420.46
56850.000	10.00	.00	.00	154.80	5200.00	167.09	.00	167.36	7.47	5.16	4662.03	1903.04
56850.000	10.00	.00	.00	154.80	10800.00	169.13	.00	169.53	10.99	7.07	8475.35	3257.87

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SECKO	XLCH	ELTRD	ELLC	ELMH	Q	CVSEL	CRINS	EG	10K*5	VCH	AREA	.01K
56900.000	50.00	.00	.00	154.90	1850.00	163.37	.00	163.65	9.29	4.35	825.69	606.99
56900.000	50.00	.00	.00	154.90	3750.00	166.11	.00	166.35	7.03	4.66	3352.48	1414.82
56900.000	50.00	.00	.00	154.90	5200.00	167.13	.00	167.39	7.50	5.16	4696.37	1899.04
56900.000	50.00	.00	.00	154.90	10800.00	169.20	.00	169.58	10.78	7.01	8611.30	3288.87
57575.000	675.00	.00	.00	155.40	1850.00	163.99	.00	164.28	9.32	4.39	670.37	606.14
57575.000	675.00	.00	.00	155.40	3750.00	166.59	.00	166.89	8.52	5.05	2749.29	1284.58
57575.000	675.00	.00	.00	155.40	5200.00	167.63	.00	167.96	8.87	5.55	4070.91	1745.72
57575.000	675.00	.00	.00	155.40	10800.00	169.91	.00	170.35	11.55	7.26	8060.18	3178.36
58290.000	715.00	.00	.00	156.00	1850.00	164.65	.00	164.90	8.08	4.19	840.62	650.78
58290.000	715.00	.00	.00	156.00	3750.00	167.16	.00	167.49	8.12	5.13	2564.13	1316.28
58290.000	715.00	.00	.00	156.00	5200.00	168.25	.00	168.61	8.89	5.76	3640.37	1744.07
58290.000	715.00	.00	.00	156.00	10800.00	170.70	.00	171.24	12.40	7.83	6696.20	3067.36
58300.000	10.00	.00	.00	156.00	1850.00	164.67	.00	164.91	10.64	3.97	465.58	567.22
58300.000	10.00	.00	.00	156.00	3750.00	167.12	.00	167.53	13.33	5.17	724.69	1027.27
58300.000	10.00	.00	.00	156.00	5200.00	168.61	.00	168.64	1.55	2.01	3960.46	4171.32
58300.000	10.00	.00	.00	156.00	10800.00	171.25	.00	171.29	1.27	2.20	7458.09	9575.04
58340.000	40.00	169.70	168.00	156.00	1850.00	164.69	.00	164.93	10.34	3.92	471.36	575.31
58340.000	40.00	169.70	168.00	156.00	3750.00	167.16	.00	167.53	3.11	2.52	2134.94	2127.80
58340.000	40.00	169.70	168.00	156.00	5200.00	169.66	.00	169.68	.75	1.52	5206.77	6011.46
58340.000	40.00	169.70	168.00	156.00	10800.00	172.44	.00	172.46	.69	1.74	9466.45	13027.04
58350.000	10.00	.00	.00	156.00	1850.00	164.69	.00	164.95	7.91	4.16	855.90	657.61
58350.000	10.00	.00	.00	156.00	3750.00	167.31	.00	167.61	7.59	5.00	2686.37	1361.29
58350.000	10.00	.00	.00	156.00	5200.00	169.54	.00	169.74	4.82	4.58	5104.75	2368.87
58350.000	10.00	.00	.00	156.00	10800.00	172.25	.00	172.54	6.65	6.18	9191.78	4188.20
58440.000	90.00	.00	.00	156.20	1850.00	164.76	.00	165.02	8.37	4.25	837.29	639.44
58440.000	90.00	.00	.00	156.20	3750.00	167.37	.00	167.68	7.97	5.09	2636.94	1328.08
58440.000	90.00	.00	.00	156.20	5200.00	169.58	.00	169.79	5.06	4.66	5016.58	2312.38
58440.000	90.00	.00	.00	156.20	10800.00	172.30	.00	172.61	6.84	6.24	9109.54	4128.72
58880.000	440.00	.00	.00	156.50	1850.00	165.13	.00	165.39	8.41	4.26	789.17	637.92
58880.000	440.00	.00	.00	156.50	3750.00	167.72	.00	168.04	8.23	5.16	2506.64	1307.28
58880.000	440.00	.00	.00	156.50	5200.00	169.79	.00	170.03	5.54	4.83	4701.56	2209.22
58880.000	440.00	.00	.00	156.50	10800.00	172.60	.00	172.92	7.23	6.39	8766.90	4016.70
59760.000	800.00	.00	.00	157.30	1850.00	165.88	.00	166.16	8.89	4.35	707.68	620.30
59760.000	800.00	.00	.00	157.30	3750.00	168.45	.00	168.81	9.02	5.35	2275.02	1248.80
59760.000	800.00	.00	.00	157.30	5200.00	170.29	.00	170.58	6.76	5.22	4139.44	2000.55
59760.000	800.00	.00	.00	157.30	10800.00	173.24	.00	173.61	8.13	6.70	8166.59	3787.09
60215.000	455.00	.00	.00	159.00	1850.00	166.28	163.51	166.80	19.24	5.95	686.07	421.73
60215.000	455.00	.00	.00	159.00	3750.00	168.97	.00	169.25	9.82	5.41	3551.66	1196.81
60215.000	455.00	.00	.00	159.00	5200.00	170.70	.00	170.89	6.52	4.97	5818.08	2037.06
60215.000	455.00	.00	.00	159.00	10800.00	173.75	.00	173.97	6.99	6.10	10235.13	4085.12

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SEONO	XLCH	ELTRD	ELLC	ELMTR	Q	GVSEL	CRIMS	EG	10K*S	VCH	AFEA	.01K
60500.000	285.00	.00	.00	160.10	1650.00	166.86	164.63	167.39	21.90	6.19	886.15	395.30
60500.000	285.00	.00	.00	160.10	3750.00	169.26	.00	169.55	11.75	5.70	3524.82	1294.00
60500.000	285.00	.00	.00	160.10	5200.00	170.90	.00	171.10	7.85	5.25	5643.43	1856.13
60500.000	285.00	.00	.00	160.10	10800.00	173.96	.00	174.18	7.82	6.27	10080.44	3862.79
60550.000	50.00	.00	.00	158.10	1850.00	167.24	.00	167.48	7.21	4.19	1321.61	689.00
60550.000	50.00	.00	.00	158.10	3750.00	169.36	.00	169.60	7.02	4.87	3748.19	1415.08
60550.000	50.00	.00	.00	158.10	5200.00	170.94	.00	171.13	5.55	4.78	5802.96	2206.94
60550.000	50.00	.00	.00	158.10	10800.00	173.99	.00	174.22	6.29	5.97	10224.83	4304.69
61115.000	565.00	.00	.00	158.40	1850.00	167.64	.00	167.91	7.69	4.30	1056.74	667.33
61115.000	565.00	.00	.00	158.40	3750.00	169.75	.00	170.03	7.81	5.11	3367.71	1341.73
61115.000	565.00	.00	.00	158.40	5200.00	171.25	.00	171.48	6.37	5.07	5287.25	2059.57
61115.000	565.00	.00	.00	158.40	10800.00	174.34	.00	174.60	6.91	6.22	9684.94	4109.42
61125.000	10.00	.00	.00	158.40	1800.00	167.71	.00	167.92	9.92	3.65	492.58	571.55
61125.000	10.00	.00	.00	158.40	3650.00	169.67	.00	170.08	13.61	5.19	703.07	989.51
61125.000	10.00	.00	.00	158.40	5050.00	171.04	.00	171.58	14.13	5.88	858.99	1343.48
61125.000	10.00	.00	.00	158.40	10700.00	174.61	.00	174.63	.58	1.52	10102.82	14057.97
61211.000	86.00	175.40	172.40	158.40	1800.00	167.73	.00	167.94	9.80	3.64	491.42	574.88
61211.000	86.00	175.40	172.40	158.40	3650.00	169.71	.00	170.12	13.35	5.16	707.38	998.79
61211.000	86.00	175.40	177.40	158.40	5050.00	171.09	.00	171.62	13.84	5.84	864.62	1357.46
61211.000	86.00	175.40	172.40	158.40	10700.00	176.38	.00	176.39	.28	1.16	13005.52	20344.69
61220.000	9.00	.00	.00	158.40	1800.00	167.72	.00	167.95	6.60	4.02	1138.18	700.63
61220.000	9.00	.00	.00	158.40	3650.00	169.90	.00	170.14	6.56	4.73	3579.26	1424.96
61220.000	9.00	.00	.00	158.40	5050.00	171.47	.00	171.45	5.24	4.66	5629.87	2206.83
61220.000	9.00	.00	.00	158.40	10700.00	176.29	.00	176.43	3.35	4.71	12951.13	5850.36
61570.000	350.00	.00	.00	158.80	1800.00	167.95	.00	168.20	7.29	4.17	1148.42	666.48
61570.000	350.00	.00	.00	158.80	3650.00	170.14	.00	170.38	6.91	4.81	3601.53	1388.40
61570.000	350.00	.00	.00	158.80	5050.00	171.66	.00	171.85	5.57	4.75	5587.21	2140.07
61570.000	350.00	.00	.00	158.80	10700.00	176.41	.03	176.55	3.53	4.79	12792.23	5697.20
62620.000	1050.00	.00	.00	159.70	1800.00	168.73	.00	168.96	7.23	4.14	1288.85	669.26
62620.000	1050.00	.00	.00	159.70	3650.00	170.87	.00	171.10	6.80	4.75	3756.29	1400.12
62620.000	1050.00	.00	.00	159.70	5050.00	172.26	.00	172.45	5.86	4.82	5570.51	2085.77
62620.000	1050.00	.00	.00	159.70	10700.00	176.80	.00	176.94	3.90	4.95	12407.55	5417.94
62800.000	180.00	.00	.00	160.50	1800.00	168.84	.00	169.13	9.54	4.56	1186.86	582.71
62800.000	180.00	.00	.00	160.50	3650.00	170.99	.00	171.24	8.13	5.03	3628.38	1279.92
62800.000	180.00	.00	.00	160.50	5050.00	172.36	.00	172.57	6.82	5.06	5408.10	1933.90
62800.000	180.00	.00	.00	160.50	10700.00	176.87	.00	177.02	4.30	5.09	12153.27	5157.42
63320.000	520.00	.00	.00	162.50	1800.00	169.43	.00	169.77	15.56	5.20	1308.19	456.33
63320.000	520.00	.00	.00	162.50	3650.00	171.49	.00	171.73	10.84	5.30	3922.43	1108.78
63320.000	520.00	.00	.00	162.50	5050.00	172.78	.00	172.96	8.03	5.05	6048.33	1781.71
63320.000	520.00	.00	.00	162.50	10700.00	177.14	.00	177.23	3.78	4.48	15415.58	5506.88

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SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIMS	EG	10K*S	VCH	AREA	.01K
63500.000	180.00	.00	.00	163.20	1800.00	169.74	.00	170.06	16.68	5.25	1456.64	440.70
63500.000	180.00	.00	.00	163.20	3650.00	171.71	.00	171.93	11.44	5.31	4033.75	1079.19
63500.000	180.00	.00	.00	163.20	5050.00	172.94	.00	173.11	8.66	5.11	6052.74	1716.30
63500.000	180.00	.00	.00	163.20	10700.00	177.22	.00	177.30	4.06	4.55	15172.29	5310.19
63550.000	50.00	.00	.00	161.20	1800.00	169.93	.00	170.12	6.68	3.88	1765.62	696.65
63550.000	50.00	.00	.00	161.20	3650.00	171.77	.00	171.98	7.13	4.66	4226.05	1367.06
63550.000	50.00	.00	.00	161.20	5050.00	172.97	.00	173.15	6.15	4.71	6220.57	2036.09
63550.000	50.00	.00	.00	161.20	10700.00	177.23	.00	177.32	3.47	4.45	15303.68	5748.10
64540.000	990.00	.00	.00	161.40	1700.00	170.52	.00	170.62	3.76	3.05	2599.53	876.67
64540.000	990.00	.00	.00	161.40	3405.00	172.40	.00	172.50	3.89	3.59	5491.03	1725.58
64540.000	990.00	.00	.00	161.40	4710.00	173.53	.00	173.62	3.72	3.78	7525.76	2442.69
64540.000	990.00	.00	.00	161.40	10600.00	177.56	.00	177.64	2.84	4.08	16685.49	6293.72
64560.000	20.00	.00	.00	162.00	1700.00	170.52	.00	170.63	4.41	3.20	2585.05	809.23
64560.000	20.00	.00	.00	162.00	3405.00	172.41	.00	172.51	4.29	3.67	5480.62	1644.47
64560.000	20.00	.00	.00	162.00	4710.00	173.54	.00	173.63	4.01	3.84	7515.14	2352.18
64560.000	20.00	.00	.00	162.00	10600.00	177.57	.00	177.64	2.95	4.10	16672.04	6167.40
64580.000	20.00	.00	.00	162.60	1700.00	170.53	.00	170.64	5.24	3.36	2559.21	742.93
64580.000	20.00	.00	.00	162.60	3405.00	172.42	.00	172.52	4.73	3.76	5463.06	1565.13
64580.000	20.00	.00	.00	162.60	4710.00	173.55	.00	173.64	4.32	3.89	7502.79	2265.32
64580.000	20.00	.00	.00	162.60	10600.00	177.58	.00	177.65	3.07	4.11	16666.78	6049.81
64600.000	20.00	.00	.00	163.20	1700.00	170.54	.00	170.65	6.27	3.54	2526.02	678.98
64600.000	20.00	.00	.00	163.20	3405.00	172.43	.00	172.53	5.24	3.84	5440.55	1488.11
64600.000	20.00	.00	.00	163.20	4710.00	173.56	.00	173.65	4.67	3.94	7484.43	2180.00
64600.000	20.00	.00	.00	163.20	10600.00	177.59	.00	177.66	3.19	4.13	16651.06	5930.64
64620.000	20.00	.00	.00	163.70	1700.00	170.55	.00	170.67	7.14	3.65	2530.85	636.30
64620.000	20.00	.00	.00	163.70	3405.00	172.45	.00	172.54	5.60	3.87	5456.18	1438.46
64620.000	20.00	.00	.00	163.70	4710.00	173.58	.00	173.66	4.91	3.95	7503.44	2125.19
64620.000	20.00	.00	.00	163.70	10600.00	177.60	.00	177.66	3.28	4.12	16671.17	5852.98
64640.000	20.00	.00	.00	164.30	1700.00	170.56	.00	170.68	8.40	3.78	2525.57	586.48
64640.000	20.00	.00	.00	164.30	3405.00	172.46	.00	172.55	6.10	3.91	5459.91	1378.24
64640.000	20.00	.00	.00	164.30	4710.00	173.59	.00	173.67	5.24	3.97	7508.33	2057.28
64640.000	20.00	.00	.00	164.30	10600.00	177.61	.00	177.67	3.59	4.11	16673.67	5754.51
64660.000	20.00	.00	.00	164.90	1700.00	170.59	.00	170.70	9.89	3.91	2524.69	540.43
64660.000	20.00	.00	.00	164.90	3405.00	172.49	.00	172.57	6.64	3.93	5467.60	1321.36
64660.000	20.00	.00	.00	164.90	4710.00	173.61	.00	173.68	5.59	3.98	7516.64	1992.24
64660.000	20.00	.00	.00	164.90	10600.00	177.62	.00	177.68	3.51	4.10	16678.63	5656.98
64680.000	20.00	.00	.00	165.40	1700.00	170.61	.00	170.72	11.12	3.96	2544.65	509.87
64680.000	20.00	.00	.00	165.40	3405.00	172.51	.00	172.58	7.07	3.93	5485.00	1281.01
64680.000	20.00	.00	.00	165.40	4710.00	173.63	.00	173.69	5.86	3.96	7533.24	1945.34
64680.000	20.00	.00	.00	165.40	10600.00	177.63	.00	177.68	3.60	4.08	16690.09	5584.53

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CNSEL	CRIMS	EG	10K'S	VCH	AREA	.01K
64700.000	20.00	.00	.00	166.00	1700.00	170.65	.00	170.75	12.74	3.99	2568.04	476.23
64700.000	20.00	.00	.00	166.00	3405.00	172.53	.00	172.60	7.57	3.90	5510.31	1237.33
64700.000	20.00	.00	.00	166.00	4710.00	173.65	.00	173.71	6.21	3.93	7546.98	1890.48
64700.000	20.00	.00	.00	166.00	10600.00	177.65	.00	177.69	3.72	4.05	16697.11	5498.42
64720.000	20.00	.00	.00	166.50	1700.00	170.70	.00	170.78	14.09	3.92	2619.79	452.81
64720.000	20.00	.00	.00	166.50	3405.00	172.56	.00	172.61	8.07	3.83	5533.94	1198.59
64720.000	20.00	.00	.00	166.50	4710.00	173.67	.00	173.72	6.53	3.87	7566.15	1843.86
64720.000	20.00	.00	.00	166.50	10600.00	177.66	.00	177.70	3.82	4.01	16707.89	5424.53
64730.000	10.00	.00	.00	163.80	1700.00	170.76	.00	170.79	3.51	1.77	1393.14	907.89
64730.000	10.00	.00	.00	163.80	3405.00	172.60	.00	172.62	1.50	1.51	3189.18	2777.25
64730.000	10.00	.00	.00	163.80	4710.00	173.72	.00	173.73	.71	1.18	5701.04	5584.01
64730.000	10.00	.00	.00	163.80	10600.00	177.69	.00	177.70	.50	1.06	14150.63	19315.78
64756.000	26.00	172.20	173.00	163.80	1700.00	170.76	.00	170.79	3.45	1.77	1398.01	914.62
64756.000	26.00	172.20	173.00	163.80	3405.00	172.86	.00	172.88	1.16	1.38	3502.20	3157.08
64756.000	26.00	172.20	173.00	163.80	4710.00	174.00	.00	174.01	.56	1.08	6218.56	6295.59
64756.000	26.00	172.20	173.00	163.80	10600.00	177.80	.00	177.81	.28	1.04	14426.93	19859.69
64766.000	10.00	.00	.00	163.50	1700.00	170.71	.00	170.82	10.30	3.03	1680.88	529.76
64766.000	10.00	.00	.00	163.50	3405.00	172.81	.00	172.90	5.54	2.99	4287.40	1447.06
64766.000	10.00	.00	.00	163.50	4710.00	173.95	.00	174.04	4.67	3.11	6114.12	2178.54
64766.000	10.00	.00	.00	163.50	10600.00	177.75	.00	177.83	3.20	3.47	14281.71	5926.89

BLACK RIVER - COE

SUMMARY PRINTOUT TABLE 150

SECTO	Q	CNSEL	DIFWSP	DIFWSX	DIFKMS	TOPWID	XLCH
30000.000	1950.00	148.77	.00	.00	.00	1063.24	.00
30000.000	4080.00	150.83	2.06	.00	.00	2037.20	.00
38000.000	5650.00	151.90	1.07	.00	.00	2242.67	.00
38000.000	11100.00	154.51	2.61	.00	.00	2751.00	.00
38800.000	1950.00	149.11	.00	.34	.00	1037.38	800.00
38800.000	4080.00	151.17	2.06	.34	.00	2011.83	800.00
38800.000	5650.00	152.24	1.07	.34	.00	2197.05	800.00
38800.000	11100.00	154.86	2.62	.35	.00	2725.18	800.00
39600.000	1950.00	149.50	.00	.39	.00	1016.99	800.00
39600.000	4080.00	151.56	2.06	.39	.00	1976.55	800.00
39600.000	5650.00	152.63	1.06	.38	.00	2160.52	800.00
39600.000	11100.00	155.24	2.62	.38	.00	2704.37	800.00
41200.000	1950.00	150.35	.00	.84	.00	981.45	1600.00
41200.000	4080.00	152.42	2.08	.86	.00	1917.09	1600.00
41200.000	5650.00	153.47	1.05	.84	.00	2098.80	1600.00
41200.000	11100.00	156.08	2.61	.83	.00	2628.74	1600.00
42800.000	1950.00	151.20	.00	.65	.00	947.61	1600.00
42800.000	4080.00	153.33	2.13	.90	.00	1865.91	1600.00
42800.000	5650.00	154.37	1.05	.90	.00	2047.52	1600.00
42800.000	11100.00	156.97	2.60	.90	.00	2562.14	1600.00
44400.000	1950.00	152.09	.00	.90	.00	916.86	1600.00
44400.000	4080.00	154.29	2.19	.96	.00	1824.17	1600.00
44400.000	5650.00	155.34	1.06	.97	.00	2007.20	1600.00
44400.000	11100.00	157.94	2.60	.97	.00	2510.46	1600.00
45700.000	1950.00	152.96	.00	.87	.00	883.71	1300.00
45700.000	4080.00	155.17	2.21	.88	.00	1486.83	1300.00
45700.000	5650.00	156.23	1.06	.89	.00	1953.01	1300.00
45700.000	11100.00	158.81	2.58	.87	.00	2438.19	1300.00
45710.000	1950.00	153.01	.00	.05	.00	147.72	10.00
45710.000	4080.00	155.41	2.40	.24	.00	1822.90	10.00
45710.000	5650.00	156.47	1.06	.24	.00	2015.53	10.00
45710.000	11100.00	159.04	2.57	.23	.00	2482.19	10.00
45740.000	1950.00	153.04	.00	.03	.00	147.85	30.00
45740.000	4080.00	155.54	2.50	.13	.00	1847.15	30.00
45740.000	5650.00	156.58	1.04	.11	.00	2036.52	30.00
45740.000	11100.00	159.14	2.56	.11	.00	2502.70	30.00

SEONO	Q	CUSEL	DIFHSP	DIFHSX	DIFKWS	TOPWID	XLCH
45750.000	1950.00	153.04	.00	.00	.00	1331.39	10.00
45750.000	4080.00	155.46	2.42	-.08	.00	2042.25	10.00
45750.000	5550.00	156.50	1.05	-.07	.00	2131.84	10.00
45750.000	11100.00	159.07	2.56	-.08	.00	2494.53	10.00
45800.000	1950.00	153.09	.00	.05	.00	1410.70	50.00
45800.000	4080.00	155.50	2.41	.04	.00	2022.80	50.00
45800.000	5650.00	156.54	1.04	.04	.00	2100.19	50.00
45800.000	11100.00	159.10	2.56	.03	.00	2469.95	50.00
46600.000	1950.00	153.63	.00	.54	.00	1263.37	800.00
46600.000	4080.00	155.88	2.25	.38	.00	1964.92	800.00
46600.000	5650.00	156.92	1.04	.38	.00	2097.81	800.00
46600.000	11100.00	159.49	2.57	.39	.00	2410.16	800.00
47300.000	1950.00	154.35	.00	.72	.00	1302.46	700.00
47300.000	4080.00	156.41	2.06	.53	.00	1948.42	700.00
47300.000	5650.00	157.42	1.00	.50	.00	2089.99	700.00
47300.000	11100.00	159.96	2.54	.47	.00	2383.82	700.00
47350.000	1950.00	154.45	.00	.10	.00	1301.43	50.00
47350.000	4080.00	156.44	1.99	.03	.00	1928.21	50.00
47350.000	5650.00	157.44	1.00	.02	.00	2084.13	50.00
47350.000	11100.00	159.98	2.54	.02	.00	2367.37	50.00
48450.000	1950.00	155.46	.00	1.01	.00	935.13	1100.00
48450.000	4080.00	157.36	1.90	.92	.00	1270.13	1100.00
48450.000	5650.00	158.33	.97	.89	.00	1433.20	1100.00
48450.000	11100.00	160.82	2.48	.84	.00	2188.03	1100.00
49550.000	1900.00	156.55	.00	1.09	.00	950.74	1100.00
49550.000	3870.00	158.50	1.94	1.13	.00	1292.55	1100.00
49550.000	5350.00	159.51	1.01	1.18	.00	1464.92	1100.00
49550.000	10900.00	162.04	2.54	1.23	.00	2319.16	1100.00
50300.000	1900.00	157.23	.00	.67	.00	1759.98	750.00
50300.000	3870.00	159.15	1.92	.65	.00	2229.47	750.00
50300.000	5350.00	160.16	1.02	.66	.00	2362.30	750.00
50300.000	10900.00	162.76	2.59	.71	.00	2701.10	750.00
50750.000	1900.00	157.65	.00	.42	.00	1753.66	450.00
50750.000	3670.00	159.45	1.80	.30	.00	2205.16	450.00
50750.000	5350.00	160.43	.99	.27	.00	2335.23	450.00
50750.000	10900.00	163.01	2.58	.26	.00	2675.40	450.00
51000.000	1900.00	158.04	.00	.39	.00	1826.71	250.00
51000.000	3870.00	159.67	1.63	.23	.00	2208.56	250.00
51000.000	5350.00	160.62	.95	.19	.00	2334.03	250.00
51000.000	10900.00	163.17	2.55	.16	.00	2670.63	250.00

SECNO	Q	CNSEL	DIFNSP	DIFVXS	DIFKVS	TOPWID	XLCH
51050.000	1900.00	158.11	.00	.07	.00	1777.44	50.00
51050.000	3870.00	159.69	1.58	.02	.00	2184.13	50.00
51050.000	5350.00	160.63	.95	.01	.00	2308.98	50.00
51050.000	10900.00	163.18	2.55	.01	.00	2645.34	50.00
51350.000	1900.00	158.39	.00	.28	.00	1525.19	300.00
51350.000	3870.00	159.93	1.54	.24	.00	1747.55	300.00
51350.000	5350.00	160.84	.91	.21	.00	1879.95	300.00
51350.000	10900.00	163.36	2.52	.18	.00	2242.90	300.00
51360.000	1900.00	158.32	.00	-.08	.00	129.93	10.00
51360.000	3870.00	159.67	1.36	-.25	.00	138.67	10.00
51360.000	5350.00	160.44	.77	-.40	.00	143.52	10.00
51360.000	10900.00	163.08	2.64	-.28	.00	2026.22	10.00
51370.000	1900.00	156.33	.00	.02	.00	129.99	10.00
51370.000	3870.00	159.70	1.37	.03	.00	138.79	10.00
51370.000	5350.00	160.48	.78	.03	.00	143.65	10.00
51370.000	10900.00	163.10	2.63	.02	.00	2026.71	10.00
51400.000	1900.00	158.49	.00	.16	.00	1540.05	30.00
51400.000	3870.00	160.16	1.67	.46	.00	1780.91	30.00
51400.000	5350.00	161.17	1.01	.69	.00	1926.79	30.00
51400.000	10900.00	163.60	2.43	.49	.00	2276.74	30.00
51500.000	1900.00	158.53	.00	.04	.00	1516.28	100.00
51500.000	3870.00	160.20	1.67	.04	.00	1757.79	100.00
51500.000	5350.00	161.21	1.01	.04	.00	1903.42	100.00
51500.000	10900.00	163.65	2.44	.06	.00	2255.64	100.00
52500.000	1900.00	159.10	.00	.57	.00	1410.67	1000.00
52500.000	3870.00	160.81	1.72	.61	.00	1658.24	1000.00
52500.000	5350.00	161.82	1.00	.60	.00	1803.01	1000.00
52500.000	10900.00	164.34	2.53	.69	.00	2167.50	1000.00
52900.000	1900.00	159.41	.00	.32	.00	960.63	400.00
52900.000	3870.00	161.09	1.67	.27	.00	1827.26	400.00
52900.000	5350.00	162.09	1.01	.27	.00	1914.77	400.00
52900.000	10900.00	164.66	2.56	.31	.00	2139.92	400.00
53800.000	1900.00	160.55	.00	1.13	.00	1109.16	900.00
53800.000	3870.00	162.35	1.80	1.26	.00	1858.53	900.00
53800.000	5350.00	163.23	.89	1.14	.00	1936.43	900.00
53800.000	10900.00	165.64	2.40	.98	.00	2147.27	900.00
54200.000	1900.00	161.00	.00	.45	.00	1126.21	400.00
54200.000	3870.00	162.83	1.83	.48	.00	2205.98	400.00
54200.000	5350.00	163.71	.89	.48	.00	2327.93	400.00
54200.000	10900.00	165.11	2.39	.47	.00	2658.00	400.00

SECNO	Q	CMSEL	DIFNSP	DIFNSX	DIFKMS	TOPWID	XLCH
54500.000	1900.00	161.38	.00	.37	.00	1146.55	300.00
54500.000	3870.00	163.18	1.81	.35	.00	2227.23	300.00
54500.000	5350.00	164.05	.86	.33	.00	2346.34	300.00
54500.000	10900.00	166.39	2.35	.29	.00	2669.80	300.00
54550.000	1900.00	161.57	.00	.19	.00	1170.54	50.00
54550.000	3870.00	163.26	1.70	.08	.00	2238.06	50.00
54550.000	5350.00	164.09	.83	.05	.00	2353.22	50.00
54550.000	10900.00	166.42	2.33	.03	.00	2672.47	50.00
54850.000	1900.00	161.74	.00	.17	.00	871.04	300.00
54850.000	3870.00	163.44	1.70	.18	.00	1165.46	300.00
54850.000	5350.00	164.26	.82	.16	.00	1819.04	300.00
54850.000	10900.00	166.58	2.32	.16	.00	2404.74	300.00
56150.000	1900.00	162.70	.00	.97	.00	810.67	1300.00
56150.000	3870.00	164.62	1.92	1.19	.00	1163.68	1300.00
56150.000	5350.00	165.59	.97	1.33	.00	1840.05	1300.00
56150.000	10900.00	167.98	2.39	1.40	.00	2423.81	1300.00
56800.000	1850.00	163.25	.00	.55	.00	478.75	650.00
56800.000	3750.00	165.22	1.97	.60	.00	1144.11	650.00
56800.000	5200.00	166.21	.99	.62	.00	1272.10	650.00
56800.000	10800.00	168.61	2.39	.62	.00	2072.90	650.00
56810.000	1850.00	163.25	.00	.00	.00	64.96	10.00
56810.000	3750.00	165.62	2.37	.40	.00	1049.03	10.00
56810.000	5200.00	166.64	1.03	.43	.00	1205.24	10.00
56810.000	10800.00	169.14	2.50	.54	.00	2068.68	10.00
56840.000	1850.00	163.29	.00	.04	.00	65.05	30.00
56840.000	3750.00	166.22	2.93	.60	.00	1140.75	30.00
56840.000	5200.00	167.25	1.03	.61	.00	1297.98	30.00
56840.000	10800.00	169.38	2.13	.24	.00	2091.99	30.00
56850.000	1850.00	163.32	.00	.03	.00	509.49	10.00
56850.000	3750.00	166.08	2.75	.15	.00	1254.77	10.00
56850.000	5200.00	167.09	1.01	.16	.00	1385.53	10.00
56850.000	10800.00	169.13	2.04	.25	.00	2128.27	10.00
56900.000	1850.00	163.37	.00	.05	.00	515.80	50.00
56900.000	3750.00	166.11	2.74	.04	.00	1258.29	50.00
56900.000	5200.00	167.13	1.02	.04	.00	1389.37	50.00
56900.000	10800.00	169.20	2.07	.07	.00	2133.14	50.00
57575.000	1850.00	163.99	.00	.62	.00	461.98	675.00
57575.000	3750.00	166.59	2.60	.47	.00	1191.64	675.00
57575.000	5200.00	167.63	1.05	.50	.00	1326.91	675.00
57575.000	10800.00	169.91	2.28	.71	.00	2113.16	675.00

SECCNO	Q	CMSEL	DIFWSP	DIFWSX	DIFKWS	TOPMID	XLCH
58290.000	1850.00	164.65	.00	.66	.00	407.18	715.00
58290.000	3750.00	167.18	2.53	.59	.00	946.05	715.00
58290.000	5200.00	168.25	1.07	.61	.00	1065.91	715.00
58290.000	10800.00	170.70	2.45	.78	.00	1464.61	715.00
58300.000	1850.00	164.67	.00	.02	.00	91.24	10.00
58300.000	3750.00	167.12	2.45	-.06	.00	111.51	10.00
58300.000	5200.00	168.61	1.49	.36	.00	1106.52	10.00
58300.000	10800.00	171.25	2.64	.55	.00	1576.43	10.00
58340.000	1850.00	164.69	.00	.03	.00	92.26	40.00
58340.000	3750.00	167.16	2.47	.04	.00	712.39	40.00
58340.000	5200.00	169.66	2.51	1.06	.00	1225.94	40.00
58340.000	10800.00	172.44	2.77	1.18	.00	1811.37	40.00
58350.000	1850.00	164.69	.00	.00	.00	410.47	10.00
58350.000	3750.00	167.31	2.62	.15	.00	961.08	10.00
58350.000	5200.00	169.54	2.23	-.13	.00	1210.60	10.00
58350.000	10800.00	172.25	2.71	-.19	.00	1773.78	10.00
58440.000	1850.00	164.76	.00	.97	.00	486.76	90.00
58440.000	3750.00	167.37	2.61	.06	.00	956.01	90.00
58440.000	5200.00	169.58	2.20	.04	.00	1202.97	90.00
58440.000	10800.00	172.30	2.73	.06	.00	1765.24	90.00
58880.000	1850.00	16.3	.00	.37	.00	390.16	440.00
58880.000	3750.00	167.12	2.59	.35	.00	939.19	440.00
58880.000	5200.00	169.79	2.07	.22	.00	1172.13	440.00
58880.000	10800.00	172.60	2.80	.29	.00	1724.91	440.00
59760.000	1850.00	165.88	.00	.75	.00	362.57	880.00
59760.000	3750.00	168.45	2.57	.73	.00	822.60	880.00
59760.000	5200.00	170.29	1.84	.50	.00	1115.50	880.00
59760.000	10800.00	173.24	2.93	.64	.00	1652.95	880.00
60215.000	1850.00	166.28	.00	.41	.00	761.39	455.00
60215.000	3750.00	168.97	2.68	.51	.00	1250.45	455.00
60215.000	5200.00	170.70	1.74	-.41	.00	1556.67	455.00
60215.000	10800.00	173.75	3.05	.51	.00	1542.83	455.00
60500.000	1850.00	166.06	.00	.58	.00	839.75	285.00
60500.000	3750.00	169.26	2.40	.30	.00	1250.32	285.00
60500.000	5200.00	170.90	1.64	.20	.00	1349.88	285.00
60500.000	10800.00	173.96	3.06	.21	.00	1537.65	285.00
60550.000	1850.00	167.24	.00	.38	.00	930.92	50.00
60550.000	3750.00	169.36	2.13	.10	.00	1256.32	50.00
60550.000	5200.00	170.94	1.58	.04	.00	1352.57	50.00
60550.000	10800.00	173.99	3.05	.02	.00	1539.42	50.00

SECHO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
61115.000	1850.00	167.64	.00	.40	.00	852.75	565.00
61115.000	3750.00	169.75	2.11	.39	.00	1237.31	565.00
61115.000	5200.00	171.25	1.50	.31	.00	1328.72	565.00
61115.000	10800.00	174.34	3.09	.35	.00	1517.53	565.00
61125.000	1800.00	167.71	.00	.07	.00	104.65	10.00
61125.000	3650.00	169.67	1.95	-.08	.00	110.99	10.00
61125.000	5050.00	171.04	1.38	-.20	.00	115.00	10.00
61125.000	10700.00	174.61	3.57	.27	.00	1560.91	10.00
61211.000	1800.00	167.73	.00	.02	.00	104.70	86.00
61211.000	3650.00	169.71	1.97	.04	.00	111.12	86.00
61211.000	5050.00	171.09	1.39	.05	.00	115.00	86.00
61211.000	10700.00	176.38	5.29	1.77	.00	1740.73	86.00
61220.000	1800.00	167.72	.00	-.01	.00	877.27	9.00
61220.000	3650.00	169.90	2.18	.20	.00	1256.97	9.00
61220.000	5050.00	171.47	1.57	.38	.00	1358.30	9.00
61220.000	10700.00	176.29	4.82	-.09	.00	1728.13	9.00
61570.000	1800.00	167.95	.00	.23	.00	885.60	350.00
61570.000	3650.00	170.14	2.19	.23	.00	1259.07	350.00
61570.000	5050.00	171.66	1.52	.19	.00	1357.15	350.00
61570.000	10700.00	176.41	4.76	.12	.00	1716.87	350.00
62620.000	1800.00	168.73	.00	.77	.00	930.06	1050.00
62620.000	3650.00	170.87	2.15	.74	.00	1267.82	1050.00
62620.000	5050.00	172.26	1.38	.60	.00	1357.14	1050.00
62620.000	10700.00	176.80	4.54	.38	.00	1686.99	1050.00
62800.000	1800.00	168.84	.00	.11	.00	910.04	180.00
62800.000	3650.00	170.99	2.15	.12	.00	1262.87	180.00
62800.000	5050.00	172.36	1.37	.10	.00	1350.86	180.00
62800.000	10700.00	176.87	4.51	.07	.00	1668.60	180.00
63320.000	1800.00	169.43	.00	.59	.00	963.26	520.00
63320.000	3650.00	171.49	2.06	.50	.00	1565.05	520.00
63320.000	5050.00	172.78	1.30	.42	.00	1714.97	520.00
63320.000	10700.00	177.14	4.36	.28	.00	2521.59	520.00
63500.000	1800.00	169.74	.00	.31	.00	1025.19	180.00
63500.000	3650.00	171.71	1.97	.22	.00	1567.43	180.00
63500.000	5050.00	172.94	1.23	.16	.00	1706.44	180.00
63500.000	10700.00	177.22	4.27	.07	.00	2515.26	180.00
63550.000	1800.00	169.93	.00	.20	.00	1082.46	50.00
63550.000	3650.00	171.77	1.84	.07	.00	1574.11	50.00
63550.000	5050.00	172.97	1.20	.03	.00	1714.80	50.00
63550.000	10700.00	177.23	4.25	.01	.00	2515.93	50.00

SECNO	Q	CASEL	DIFWSP	DIFUSX	DIFKYS	TOPMID	XLCH
64540.000	1700.00	170.52	.00	.58	.00	1300.47	990.00
64540.000	3405.00	172.40	1.88	.62	.00	1697.35	990.00
64540.000	4710.00	173.53	1.13	.55	.00	1907.95	990.00
64540.000	10600.00	177.56	4.03	.33	.00	2541.42	990.00
64560.000	1700.00	170.52	.00	.00	.00	1303.97	20.00
64560.000	3405.00	172.41	1.89	.01	.00	1699.44	20.00
64560.000	4710.00	173.54	1.13	.01	.00	1909.79	20.00
64560.000	10600.00	177.57	4.03	.01	.00	2541.72	20.00
64580.000	1700.00	170.53	.00	.01	.00	1304.57	20.00
64580.000	3405.00	172.42	1.89	.01	.00	1700.63	20.00
64580.000	4710.00	173.55	1.13	.01	.00	1911.36	20.00
64580.000	10600.00	177.58	4.03	.01	.00	2542.16	20.00
64600.000	1700.00	170.54	.00	.01	.00	1306.69	20.00
64600.000	3405.00	172.43	1.90	.01	.00	1702.80	20.00
64600.000	4710.00	173.56	1.13	.01	.00	1913.69	20.00
64600.000	10600.00	177.59	4.03	.01	.00	2542.66	20.00
64620.000	1700.00	170.55	.00	.01	.00	1309.43	20.00
64620.000	3405.00	172.45	1.90	.02	.00	1705.27	20.00
64620.000	4710.00	173.58	1.13	.02	.00	1915.22	20.00
64620.000	10600.00	177.60	4.02	.01	.00	2543.17	20.00
64640.000	1700.00	170.56	.00	.02	.00	1314.05	20.00
64640.000	3405.00	172.46	1.90	.02	.00	1708.42	20.00
64640.000	4710.00	173.59	1.13	.02	.00	1919.14	20.00
64640.000	10600.00	177.61	4.02	.01	.00	2543.70	20.00
64660.000	1700.00	170.59	.00	.02	.00	1319.50	20.00
64660.000	3405.00	172.49	1.90	.02	.00	1711.93	20.00
64660.000	4710.00	173.61	1.13	.02	.00	1922.32	20.00
64660.000	10600.00	177.62	4.01	.01	.00	2544.25	20.00
64680.000	1700.00	170.51	.00	.03	.00	1328.55	20.00
64680.000	3405.00	172.51	1.89	.02	.00	1715.93	20.00
64680.000	4710.00	173.63	1.12	.02	.00	1925.81	20.00
64680.000	10600.00	177.63	4.00	.01	.00	2544.84	20.00
64700.000	1700.00	170.65	.00	.04	.00	1338.98	20.00
64700.000	3405.00	172.53	1.88	.02	.00	1721.10	20.00
64700.000	4710.00	173.65	1.12	.02	.00	1929.36	20.00
64700.000	10600.00	177.65	4.00	.01	.00	2345.39	20.00
64720.000	1700.00	170.70	.00	.05	.00	1355.46	20.00
64720.000	3405.00	172.56	1.86	.03	.00	1725.94	20.00
64720.000	4710.00	173.67	1.11	.02	.00	1933.19	20.00
64720.000	10600.00	177.66	3.99	.01	.00	2546.00	20.00

SEENO	Q	CMSEL	DIFMSP	DIFWSX	DIFKMS	TOPRID	XLCH
64730.000	1700.00	170.76	.00	.06	.00	807.80	10.00
64730.000	3405.00	172.60	1.84	.04	.00	1132.46	10.00
64730.000	4710.00	173.72	1.12	.04	.00	1690.96	10.00
64730.000	10600.00	177.69	3.98	.04	.00	2456.14	10.00
64756.000	1700.00	170.76	.00	.00	.00	808.14	26.00
64756.000	3405.00	172.66	2.10	.26	.00	1177.59	26.00
64756.000	4710.00	174.00	1.14	.29	.00	1759.57	26.00
64756.000	10600.00	177.80	3.79	.10	.00	2462.85	26.00
64766.000	1700.00	170.71	.00	-.05	.00	1005.58	10.00
64766.000	3405.00	172.81	2.17	-.04	.00	1461.05	10.00
64766.000	4710.00	173.95	1.14	-.05	.00	1745.85	10.00
64766.000	10600.00	177.75	3.79	-.05	.00	2459.29	10.00

W F

THIS RUN EXECUTED 07-30-87 17:16:11

 HEC2 RELEASE DATED NOV 76 UPDATED MAY 1984
 ERROR CORR - 01,02,03,04,05,06
 MODIFICATION - 50,51,52,53,54,55,56
 IBM-PC-XT VERSION AUGUST 1985

C										
HAYES, SEAY, MATTERN & MATTERN										
HARRETT CO, NC FIS										
T1	FILENAME: BR.HEC	ENG:SKE	ET:KHC/EKL	COMM 2540A						
T2	BLACK RIVER - COE	DATE: 7/30/87	100-YEAR EVENT							
J1	ICHECK	INO	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FO
	0.	4.	0.	0.	.000414	.00	.0	0.	151.900	.000
J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLOC	IBW	CHNIM	ITRACE
	1.000	.000	-1.000	.000	.000	.000	.000	.000	.000	.000
J3	VARIABLE CODES FOR SUMMARY PRINTOUT									
	110.000	200.000	.000	.000	.000	.000	.000	.000	.000	.000
QT	5.000	1950.000	4080.000	5650.000	11100.000	5650.000	.000	.000	.000	.000
NC	.200	.200	.035	.100	.300	.000	.000	.000	.000	.000
ET	.000	.000	.000	.000	.000	9.100	.000	.000	200.000	1300.000

ON THE QT CARDS, THE DISCHARGES ARE AS FOLLOWS:

FIELD #2	#3	#4	#5
Q# 10-YEAR	50-YEAR	100-YEAR	500-YEAR

CROSS SECTION A

X1	38000.000	18.000	810.000	855.600	.000	.000	.000	.000	.000	.000
GR	159.000	.000	149.000	200.000	145.200	400.000	145.200	810.000	142.000	812.000
GR	141.800	815.500	141.800	815.500	141.800	815.800	140.800	835.000	141.800	843.300
GR	141.800	850.500	145.200	855.600	145.000	1100.000	149.300	1300.000	149.000	1940.000
GR	152.000	2400.000	154.000	2500.000	159.000	3200.000	.000	.000	.000	.000
ET	.000	.000	.000	.000	.000	9.100	.000	.000	200.000	1200.000
X1	38800.000	19.000	809.600	856.300	800.000	800.000	800.000	.000	.000	.000
GR	159.400	.000	149.600	200.000	145.800	400.000	145.800	809.600	145.400	810.200
GR	142.600	812.000	142.500	814.700	141.900	815.500	141.900	825.400	141.400	835.000
GR	141.900	839.200	141.900	850.500	145.800	856.300	145.600	1100.000	149.900	1300.000
GR	149.600	1940.000	152.600	2400.000	154.600	2800.000	159.600	3200.000	.000	.000

ET	.000	.000	.000	.000	.000	9.100	.000	.000	350.000	1450.000
X1	50300.000	9.000	599.900	650.300	750.000	750.000	750.000	.000	.400	.000
GR	168.500	.000	155.500	400.000	155.700	599.900	149.300	609.500	149.300	639.500
GR	156.500	650.300	156.500	1700.000	158.500	2400.000	168.500	3400.000	.000	.000
ET	.000	.000	.000	.000	.000	9.100	.000	.000	350.000	1450.000
X1	50750.000	9.000	601.700	648.100	450.000	450.000	450.000	.000	.000	.000
GR	168.500	.000	156.000	400.000	156.000	601.700	150.800	609.500	150.800	639.500
GR	156.500	648.100	156.500	1700.000	158.500	2400.000	168.500	3400.000	.000	.000
ET	.000	.000	.000	.000	.000	9.100	.000	.000	350.000	1450.000
X1	51000.000	9.000	602.500	647.300	250.000	250.000	250.000	.000	.000	.000
GR	168.700	.000	156.200	400.000	156.200	602.500	151.500	609.500	151.500	639.500
CR	156.700	647.300	156.700	1700.000	158.700	2400.000	168.700	3400.000	.000	.000
ET	.000	.000	.000	.000	.000	9.100	.000	.000	350.000	1450.000
X1	51050.000	9.000	599.500	650.300	50.000	50.000	50.000	.000	.200	.000
GR	168.700	.000	156.200	400.000	156.200	599.500	149.500	609.500	149.500	639.500
GR	156.700	650.300	156.700	1700.000	158.700	2400.000	168.700	3400.000	.000	.000
ET	.000	.000	.000	.000	.000	9.100	.000	.000	900.000	2000.000
X1	51350.000	10.000	1296.400	1344.600	300.000	300.000	300.000	.000	.000	.000
GR	170.000	.000	156.000	900.000	156.000	1296.400	149.900	1305.500	149.900	1335.500
GR	156.000	1344.600	156.000	1600.000	157.500	2200.000	165.000	2800.000	170.000	3300.000
NC	.080	.080	.035	.100	.300	.000	.000	.000	.000	.000
ET	.000	.000	.000	.000	.000	9.100	.000	.000	808.000	951.000

CROSS SECTION B

X1	51360.000	19.000	800.000	958.000	10.000	10.000	10.000	.000	.000	.000
GR	170.000	.000	163.000	200.000	162.500	400.000	161.700	600.000	162.800	800.000
GR	156.400	821.000	156.900	885.000	149.900	900.500	149.900	930.500	157.600	942.100
GR	158.700	946.000	162.700	958.000	161.200	1200.000	161.100	1600.000	160.700	1800.000
GR	161.800	2000.000	162.700	2200.000	166.000	2400.000	170.000	3000.000	.000	.000
ET	.000	.000	.000	.000	.000	9.100	.000	.000	808.000	951.000
X1	51370.000	19.000	800.000	958.000	10.000	10.000	10.000	.000	.000	.000
GR	170.000	.000	163.000	200.000	162.500	400.000	161.700	600.000	162.800	800.000
GR	156.400	821.000	156.900	885.000	149.900	900.500	149.900	930.500	157.600	942.100
GR	158.700	946.000	162.700	958.000	161.200	1200.000	161.100	1600.000	160.700	1800.000
GR	161.800	2000.000	162.700	2200.000	166.000	2400.000	170.000	3000.000	.000	.000
NC	.200	.200	.035	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	.000	.000	9.100	.000	.000	1100.000	1800.000
X1	51400.000	10.000	1296.400	1344.600	30.000	30.000	30.000	.000	.000	.000
GR	170.000	.000	156.000	900.000	156.000	1296.400	149.900	1305.500	149.900	1335.500
GR	156.000	1344.600	156.000	1600.000	157.500	2200.000	165.000	2800.000	170.000	3300.000

ET	.000	.000	.000	.000	.000	9.100	.000	.000	1100.000	1800.000
X1	51500.000	10.000	1296.200	1344.800	100.000	100.000	100.000	.000	.000	.000
GR	170.200	.000	156.200	900.000	156.200	1296.200	150.000	1305.500	150.000	1335.500
GR	156.200	1344.800	156.200	1600.000	157.700	2200.000	165.200	2800.000	170.200	3300.000

ET	.000	.000	.000	.000	.000	9.100	.000	.000	1100.000	1800.000
X1	52500.000	10.000	1295.600	1345.400	1000.000	1000.000	1000.000	.000	.000	.000
GR	171.500	.000	157.500	900.000	157.500	1295.600	150.900	1305.500	150.900	1235.500
GR	157.500	1345.400	157.500	1600.000	159.000	2200.000	166.500	2800.000	171.500	3300.000

ET	.000	.000	.000	.000	.000	9.100	.000	.000	900.000	1600.000
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CROSS SECTION C

X1	52900.000	13.000	1197.500	1249.200	400.000	400.000	400.000	.000	.000	.000
GR	175.000	.000	159.500	200.000	159.000	900.000	158.000	910.000	158.000	1197.500
GR	151.300	1207.500	151.300	1237.500	159.100	1249.200	161.000	1450.000	161.000	2000.000
GR	165.000	2300.000	165.000	2800.000	175.000	3200.000	.000	.000	.000	.000

ET	.000	.000	.000	.000	.000	9.100	.000	.000	775.000	1725.000
X1	53800.000	13.000	1197.300	1249.400	900.000	900.000	900.000	.000	.000	.000
GR	176.000	.000	160.400	200.600	159.900	900.000	158.900	910.000	158.900	1197.300
GR	152.100	1207.500	152.100	1237.500	160.000	1249.400	161.900	1450.000	161.900	2000.000
GR	165.900	2300.000	165.900	2800.000	175.900	3200.000	.000	.000	.000	.000

ET	.000	.000	.000	.000	.000	9.100	.000	.000	775.000	1725.000
X1	54200.000	13.000	1194.000	1247.700	400.000	400.000	400.000	.000	.000	.000
GR	176.200	.000	160.700	200.000	160.200	900.000	159.200	910.000	159.200	1194.000
GR	153.500	1202.500	153.500	1237.500	160.300	1247.700	162.200	1450.000	162.200	2000.000
GR	162.200	2300.000	166.200	2800.000	176.200	3200.000	.000	.000	.000	.000

ET	.000	.000	.000	.000	.000	9.100	.000	.000	775.000	1725.000
X1	54500.000	13.000	1195.300	1246.700	300.000	300.000	300.000	.000	.000	.000
GR	176.400	.000	160.900	200.000	160.400	900.000	159.400	910.000	159.400	1195.300
GR	154.600	1202.500	154.600	1237.500	160.500	1246.700	162.400	1450.000	162.400	2000.000
GR	162.400	2300.000	166.400	2800.000	176.400	3200.000	.000	.000	.000	.000

ET	.000	.000	.000	.000	.000	9.100	.000	.000	775.000	1725.000
X1	54550.000	13.000	1192.300	1249.400	50.000	50.000	50.000	.000	.000	.000
GR	176.400	.000	160.900	200.000	160.400	900.000	159.400	910.000	159.400	1192.300
GR	152.600	1202.500	152.600	1237.500	160.500	1249.400	162.400	1450.000	162.400	2000.000
GR	162.400	2300.000	166.400	2800.000	176.400	3200.000	.000	.000	.000	.000

ET	.000	.000	.000	.000	.000	9.100	.000	.000	1025.000	1975.000
X1	54850.000	14.000	1389.600	1448.700	300.000	300.000	300.000	.000	.000	.000
GR	175.000	.000	166.000	400.000	164.200	600.000	163.500	1200.000	161.600	1389.600
GR	153.000	1402.500	153.000	1437.500	160.500	1448.700	159.800	1800.000	161.000	2100.000
GR	162.000	2300.000	165.000	2450.000	165.000	2700.000	175.000	3200.000	.000	.000

ET	.000	.000	.000	.000	.000	9.100	.000	.000	800.000	1400.000
X1	63320.000	14.000	999.300	1046.500	520.000	520.000	520.000	.000	.000	.000
GR	185.000	.000	176.700	200.000	172.700	700.000	168.000	860.000	168.000	999.300
GR	162.500	1007.500	152.500	1037.500	168.500	1046.500	167.800	1200.000	167.600	1300.000
GR	168.400	1500.000	171.400	2300.000	176.700	2700.000	185.000	2900.000	.000	.000
ET	.000	.000	.000	.000	.000	9.100	.000	.000	800.000	1400.000
X1	63500.000	14.000	1000.000	1045.800	180.000	180.000	180.000	.000	.000	.000
GR	185.200	.000	176.900	200.000	172.900	700.000	168.200	860.000	168.200	1000.300
GR	163.200	1007.500	163.200	1037.500	168.700	1045.800	168.000	1200.000	167.800	1300.000
GR	168.400	1500.000	171.600	2300.000	176.900	2700.000	185.200	2900.000	.000	.000
ET	.000	.000	.000	.000	.000	9.100	.000	.000	800.000	1400.000
X1	63550.000	14.000	997.000	1048.800	50.000	50.000	50.000	.000	.000	.000
GR	185.200	.000	176.900	200.000	172.900	700.000	168.200	860.000	168.200	997.000
GR	161.200	1007.500	161.200	1037.500	168.700	1048.800	168.000	1200.000	167.800	1300.000
GR	168.400	1500.000	171.600	2300.000	176.900	2700.000	185.200	2900.000	.000	.000
QT	5.000	1700.000	3405.000	4710.000	10600.000	4710.000	.000	.000	.000	.000
ET	.000	.000	.000	.000	.000	9.100	.000	.000	900.000	1600.000
X1	64540.000	14.000	997.600	1048.100	990.000	990.000	990.000	.000	.000	.000
GR	185.000	.000	176.700	200.000	172.200	700.000	168.000	860.000	168.000	997.600
GR	161.400	1007.500	161.400	1037.500	168.500	1048.100	167.800	1200.000	167.600	1300.000
GR	168.400	1500.000	171.400	2300.000	176.700	2700.000	185.000	2900.000	.000	.000
ET	.000	.000	.000	.000	.000	9.100	.000	.000	900.000	1600.000
X1	64560.000	14.000	998.500	1047.200	20.000	20.000	20.000	.000	.000	.000
GR	185.000	.000	176.700	200.000	172.200	700.000	168.000	860.000	168.000	998.500
GR	162.000	1007.500	162.000	1037.500	168.500	1047.200	167.800	1200.000	167.600	1300.000
GR	168.400	1500.000	171.400	2300.000	176.700	2700.000	185.000	2900.000	.000	.000
ET	.000	.000	.000	.000	.000	9.100	.000	.000	900.000	1600.000
X1	64580.000	14.000	999.400	1046.300	20.000	20.000	20.000	.000	.000	.000
GR	185.000	.000	176.700	200.000	172.200	700.000	168.000	860.000	168.000	999.400
GR	162.600	1007.500	162.600	1037.500	168.500	1046.300	167.800	1200.000	167.600	1300.000
GR	168.400	1500.000	171.400	2300.000	176.700	2700.000	185.000	2900.000	.000	.000
ET	.000	.000	.000	.000	.000	9.100	.000	.000	900.000	1600.000
X1	64600.000	14.000	1000.300	1045.400	20.000	20.000	20.000	.000	.000	.000
GR	185.000	.000	176.700	200.000	172.200	700.000	168.000	860.000	168.000	1000.300
GR	163.200	1007.500	163.200	1037.500	168.500	1045.400	167.800	1200.000	167.700	1300.000
GR	168.400	1500.000	171.400	2300.000	176.700	2700.000	185.000	2900.000	.000	.000
ET	.000	.000	.000	.000	.000	9.100	.000	.000	900.000	1600.000
X1	64620.000	14.000	1001.100	1044.700	20.000	20.000	20.000	.000	.000	.000
GR	185.000	.000	176.700	200.000	172.200	700.000	168.000	860.000	168.000	1001.100
GR	163.700	1007.500	163.700	1037.500	168.500	1044.700	167.800	1200.000	167.600	1300.000
GR	168.400	1500.000	171.400	2300.000	176.700	2700.000	185.000	2900.000	.000	.000

THIS RUN EXECUTED 07-30-87 17:19:52

 HEC2 RELEASE DATED NOV 76 UPDATED MAY 1984
 ERROR CORR - 01,02,03,04,05,06
 MODIFICATION - 50,51,52,53,54,55,56
 IBM-PC-XT VERSION AUGUST 1985

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

BLACK RIVER - COE

SUMMARY PRINTOUT TABLE 110

SECD	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCR	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
36000.000	151.90	.00	151.98	2242.67	1904.65	1791.17	1954.18	.00	.00	810.00	855.60	.00
38000.000	152.90	1.00	152.98	1100.00	2204.91	1909.95	1535.14	1100.00	200.00	810.00	855.60	1300.00
38800.000	152.24	.00	152.33	2197.05	1880.62	1908.18	1861.20	.00	.00	809.60	856.30	.00
38800.000	153.19	.94	153.28	1000.00	2217.47	2062.38	1370.15	1000.00	200.00	809.60	856.30	1200.00
39600.000	152.63	.00	152.73	2160.52	2212.36	2020.84	1416.80	.00	.00	909.20	956.80	.00
39600.000	153.52	.89	153.64	900.00	2479.77	2220.12	950.11	900.00	300.00	909.20	956.80	1200.00
41200.000	153.47	.00	153.61	2098.80	2077.77	2338.06	1234.17	.00	.00	907.90	958.10	.00
41200.000	154.30	.83	154.46	800.00	2095.30	2629.93	924.77	800.00	400.00	907.90	958.10	1200.00
42800.000	154.37	.00	154.54	2047.52	1605.39	2654.16	1390.45	.00	.00	806.50	859.50	.00
42800.000	155.17	.79	155.35	800.00	1531.30	2890.20	1228.49	800.00	400.00	806.50	859.50	1200.00
44400.000	155.34	.00	155.53	2007.20	1240.78	2803.91	1605.31	.00	.00	706.10	759.90	.00
44400.000	156.06	.72	156.27	800.00	1100.17	3003.84	1545.99	800.00	400.00	706.10	759.90	1200.00
45700.000	156.23	.00	156.46	1953.01	906.58	2921.45	1821.97	.00	.00	606.10	659.90	.00
45700.000	156.90	.67	157.20	700.00	203.09	3341.57	2195.34	700.00	550.00	606.10	659.90	1250.00
45710.000	156.47	.00	156.48	2015.53	1352.71	1343.84	2953.45	.00	.00	600.00	754.00	.00
45710.000	157.20	.73	157.23	700.00	681.84	2005.29	2962.87	700.00	500.00	600.00	754.00	1200.00
45740.000	156.58	.00	156.59	2036.52	1351.25	1320.78	2977.96	.00	.00	600.00	754.00	.00
45740.000	157.26	.68	157.29	700.00	326.17	2041.92	3281.91	700.00	550.00	600.00	754.00	1250.00
45750.000	156.50	.00	156.62	2131.84	828.73	2394.50	2426.77	.00	.00	621.10	675.40	.00
45750.000	157.08	.58	157.37	700.00	267.33	3351.61	2031.05	700.00	550.00	621.10	675.40	1250.00
45800.000	156.54	.00	156.65	2100.19	218.62	2292.87	3138.51	.00	.00	321.20	375.20	.00
45800.000	157.15	.61	157.41	700.00	263.57	3220.43	2166.00	700.00	250.00	321.20	375.20	950.00

SECNO	CWSEL	DIFXWS	EG	TOPRID	QLOB	QCH	OROB	PERENC	STENCL	STCHL	STCHR	STENCR
46600.000	156.92	.00	157.07	2097.81	796.67	2561.62	2291.71	.00	.00	620.90	675.50	.00
46600.000	157.74	.82	157.93	800.00	774.36	3119.68	1755.95	800.00	400.00	620.90	675.50	1200.00
47300.000	157.42	.00	157.57	2089.99	926.12	2089.37	2634.52	.00	.00	623.90	672.60	.00
47300.000	158.30	.89	158.54	800.00	928.35	2632.64	2088.51	800.00	400.00	623.90	672.60	1200.00
47350.000	157.44	.00	157.61	2084.13	840.29	2451.08	2358.64	.00	.00	625.90	675.50	.00
47350.000	158.33	.89	158.59	800.00	835.75	2964.06	1850.19	800.00	400.00	625.90	675.50	1200.00
48450.000	158.33	.00	158.64	1433.20	1494.93	2977.04	1178.03	.00	.00	624.90	675.30	.00
48450.000	159.25	.92	159.59	800.00	912.10	3238.75	1499.16	800.00	400.00	624.90	675.30	1200.00
49550.000	159.51	.00	159.76	1464.92	1434.59	2754.37	1161.04	.00	.00	624.90	675.30	.00
49550.000	160.30	.79	160.55	900.00	1015.13	2909.63	1425.24	900.00	350.00	624.90	675.30	1250.00
50300.000	160.16	.00	160.27	2362.30	611.65	2101.51	2636.84	.00	.00	599.90	650.30	.00
50300.000	160.90	.74	161.08	1100.00	791.92	2566.16	1991.93	1100.00	350.00	599.90	650.30	1450.00
50750.000	160.43	.00	160.55	2335.23	585.97	1841.75	2922.28	.00	.00	601.70	648.10	.00
50750.000	161.21	.78	161.40	1100.00	798.29	2287.69	2264.02	1100.00	350.00	601.70	648.10	1450.00
51000.000	160.62	.00	160.73	2334.03	607.63	1721.92	3020.45	.00	.00	602.50	647.30	.00
51000.000	161.43	.81	161.61	1100.00	833.65	2156.47	2359.88	1100.00	350.00	602.50	647.30	1450.00
51050.000	160.63	.00	160.78	2308.98	517.48	2265.22	2567.30	.00	.00	599.50	650.30	.00
51050.000	161.45	.82	161.66	1100.00	695.93	2676.05	1978.02	1100.00	350.00	599.50	650.30	1450.00
51350.000	160.84	.00	160.97	1879.95	1262.92	2160.63	1926.45	.00	.00	1296.40	1344.60	.00
51350.000	161.71	.87	161.85	1100.00	1213.39	2294.76	1841.85	1100.00	900.00	1296.40	1344.60	2000.00
51360.000	160.44	.00	161.16	143.52	.00	5350.00	.00	.00	.00	800.00	958.00	.00
51360.000	161.46	1.01	161.97	143.00	.00	5350.00	.00	143.00	808.00	800.00	958.00	951.00
51370.000	160.48	.00	161.19	143.65	.00	5350.00	.00	.00	.00	800.00	958.00	.00
51370.000	161.47	1.00	161.98	143.00	.00	5350.00	.00	143.00	808.00	800.00	958.00	951.00
51400.000	161.17	.00	161.28	1926.79	1293.37	2069.66	1986.97	.00	.00	1296.40	1344.60	.00
51400.000	161.78	.61	162.04	700.00	754.83	2878.92	1716.24	700.00	1100.00	1296.40	1344.60	1800.00
51500.000	161.21	.00	161.34	1903.42	1268.66	2138.62	1942.72	.00	.00	1296.20	1344.80	.00
51500.000	161.85	.64	162.13	700.00	740.23	2927.37	1682.40	700.00	1100.00	1296.20	1344.80	1800.00
52500.000	161.82	.00	162.01	1803.01	1156.84	2454.33	1738.83	.00	.00	1295.60	1345.40	.00
52500.000	162.71	.89	163.03	700.00	686.62	3105.77	1557.61	700.00	1100.00	1295.60	1345.40	1800.00
52900.000	162.09	.00	162.46	1914.77	1917.68	3077.42	354.89	.00	.00	1197.50	1249.20	.00
52900.000	163.01	.92	163.54	700.00	1190.84	3689.19	469.96	700.00	900.00	1197.50	1249.20	1600.00
53800.000	163.23	.00	163.54	1936.43	1962.12	2964.55	423.33	.00	.00	1197.30	1249.40	.00
53800.000	164.24	1.00	164.59	950.00	1435.17	3317.27	597.56	950.00	775.00	1197.30	1249.40	1725.00

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SECNO	CWSEL	DIFKVS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
54200.000	163.71	.00	163.96	2327.93	2016.42	2703.01	630.57	.00	.00	1194.00	1247.70	.00
54200.000	164.65	.94	164.98	950.00	1492.34	3209.21	648.45	950.00	775.00	1194.00	1247.70	1725.00
54500.000	164.05	.00	164.26	2346.34	2200.36	2413.55	736.09	.00	.00	1195.30	1246.70	.00
54500.000	164.98	.93	165.30	950.00	1643.62	2970.94	735.44	950.00	775.00	1195.30	1246.70	1725.00
54550.000	164.09	.00	164.30	2353.22	1851.97	2863.70	634.33	.00	.00	1192.30	1249.40	.00
54550.000	165.06	.97	165.34	950.00	1352.83	3379.53	617.64	950.00	775.00	1192.30	1249.40	1725.00
54850.000	164.26	.00	164.59	1819.04	143.08	3341.25	1865.67	.00	.00	1389.60	1448.70	.00
54850.000	165.28	1.02	165.57	950.00	294.15	3405.01	1650.84	950.00	1025.00	1389.60	1448.70	1975.00
56150.000	165.59	.00	165.90	1840.05	169.57	3280.95	1899.48	.00	.00	1389.60	1448.70	.00
56150.000	166.53	.74	166.73	700.00	240.01	3747.71	1362.27	700.00	1150.00	1389.60	1448.70	1850.00
56800.000	166.21	.00	166.64	1272.10	68.59	3679.07	1452.34	.00	.00	1400.00	1487.00	.00
56800.000	166.97	.76	167.43	700.00	131.21	3972.29	1096.50	700.00	1250.00	1400.00	1487.00	1900.00
56810.000	166.64	.00	166.69	1205.24	268.69	1596.56	3334.75	.00	.00	1400.00	1487.00	.00
56810.000	167.40	.75	167.48	600.00	384.25	2208.19	2607.56	600.00	1300.00	1400.00	1487.00	1900.00
56840.000	167.25	.00	167.28	1297.98	364.68	1422.48	3412.84	.00	.00	1400.00	1487.00	.00
56840.000	167.71	.46	167.78	600.00	410.34	2120.54	2669.12	600.00	1300.00	1400.00	1487.00	1900.00
56850.000	167.09	.00	167.36	1385.53	134.87	3321.24	1743.89	.00	.00	1386.50	1449.40	.00
56850.000	167.46	.37	167.90	600.00	121.08	4016.16	1062.76	600.00	1300.00	1386.50	1449.40	1900.00
56900.000	167.13	.00	167.39	1389.37	138.86	3290.33	1770.81	.00	.00	1386.70	1449.20	.00
56900.000	167.51	.38	167.94	600.00	124.39	3991.87	1083.75	600.00	1300.00	1386.70	1449.20	1900.00
57575.000	167.63	.00	167.96	1326.91	94.47	3568.72	1536.80	.00	.00	1385.90	1450.00	.00
57575.000	168.16	.53	168.62	600.00	103.29	4140.82	955.89	600.00	1300.00	1385.90	1450.00	1900.00
58290.000	168.25	.00	168.61	1065.91	232.11	3623.86	1344.03	.00	.00	786.90	846.70	.00
58290.000	168.92	.67	169.25	600.00	145.20	3660.55	1394.25	600.00	700.00	786.90	846.70	1300.00
58300.000	168.61	.00	168.64	1106.52	653.29	1790.02	2756.69	.00	.00	800.00	912.00	.00
58300.000	169.24	.63	169.28	600.00	425.22	1961.42	2813.36	600.00	700.00	800.00	912.00	1300.00
58340.000	169.66	.00	169.60	1225.94	772.63	1540.12	2887.25	.00	.00	800.00	912.00	.00
58340.000	170.21	.54	170.24	600.00	475.62	1837.45	2886.92	600.00	700.00	800.00	912.00	1300.00
58350.000	169.54	.00	169.74	1210.60	348.20	3226.64	1625.16	.00	.00	788.90	848.50	.00
58350.000	170.07	.53	170.30	600.00	187.89	3454.55	1557.56	600.00	700.00	788.90	848.50	1300.00
58440.000	169.58	.00	169.79	1202.97	346.05	3227.76	1626.19	.00	.00	789.10	848.40	.00
58440.000	170.11	.53	170.35	600.00	187.90	3448.86	1563.23	600.00	700.00	789.10	848.40	1300.00
58880.000	169.79	.00	170.03	1172.13	317.01	3341.94	1541.06	.00	.00	788.80	848.70	.00
58880.000	170.33	.53	170.58	600.00	175.15	3527.96	1496.89	600.00	700.00	788.80	848.70	1300.00

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SECCO	CUSEL	DIFKUS	EG	TOPMID	QLOB	QCH	QROB	PERENC	STENCL	SICHL	SICHR	STENCR
59760.000	170.29	.00	170.58	1115.90	267.86	3528.95	1403.20	.00	.00	788.50	849.00	.00
59760.000	170.80	.51	171.10	600.00	153.91	3653.77	1392.32	600.00	700.00	788.50	849.00	1300.00
60215.000	170.70	.00	170.89	1356.67	934.09	2522.17	1743.74	.00	.00	992.60	1040.60	.00
60215.000	171.11	.40	171.45	600.00	627.97	3157.25	1414.78	600.00	800.00	992.60	1040.60	1400.00
60500.000	170.90	.00	171.10	1349.88	993.83	2362.06	1844.11	.00	.00	994.00	1039.40	.00
60500.000	171.37	.47	171.73	600.00	694.88	2976.33	1528.79	600.00	800.00	994.00	1039.40	1400.00
60550.000	170.94	.00	171.13	1352.57	845.74	2788.81	1565.44	.00	.00	991.00	1042.40	.00
60550.000	171.47	.53	171.78	600.00	570.92	3370.71	1258.37	600.00	800.00	991.00	1042.40	1400.00
61115.000	171.25	.00	171.48	1328.72	746.72	3004.75	1448.53	.00	.00	990.20	1043.10	.00
61115.000	171.86	.61	172.19	600.00	513.65	3515.34	1171.01	600.00	800.00	990.20	1043.10	1400.00
61125.000	171.04	.00	171.58	115.00	.00	5050.00	.00	.00	.00	1007.00	1122.00	.00
61125.000	171.79	.74	172.23	115.00	.00	5050.00	.00	600.00	800.00	1007.00	1122.00	1400.00
61211.000	171.09	.00	171.62	115.00	.00	5050.00	.00	.00	.00	1007.00	1122.00	.00
61211.000	171.82	.73	172.26	115.00	.00	5050.00	.00	600.00	800.00	1007.00	1122.00	1400.00
61220.000	171.47	.00	171.66	1358.30	754.03	2860.60	1435.37	.00	.00	991.20	1044.50	.00
61220.000	171.99	.52	172.28	600.00	505.98	3407.98	1136.04	600.00	800.00	991.20	1044.50	1400.00
61570.000	171.66	.00	171.85	1357.15	771.87	2806.49	1471.64	.00	.00	991.50	1044.10	.00
61570.000	172.21	.56	172.52	600.00	524.03	3350.62	1175.36	600.00	800.00	991.50	1044.10	1400.00
62620.000	172.26	.00	172.45	1357.14	792.86	2745.71	1511.43	.00	.00	992.00	1043.60	.00
62620.000	172.93	.68	173.23	600.00	549.62	3273.41	1226.97	600.00	800.00	992.00	1043.60	1400.00
62800.000	172.36	.00	172.57	1350.86	819.56	2656.14	1574.30	.00	.00	992.90	1042.80	.00
62800.000	173.05	.69	173.37	600.00	578.45	3179.29	1292.25	600.00	800.00	992.90	1042.80	1400.00
63320.000	172.78	.00	172.96	1714.97	546.87	2201.56	2301.57	.00	.00	999.30	1046.50	.00
63320.000	173.52	.73	173.84	600.00	748.93	2830.23	1470.83	600.00	800.00	999.30	1046.50	1400.00
63500.000	172.94	.00	173.11	1706.44	559.17	2065.73	2425.11	.00	.00	1000.00	1045.80	.00
63500.000	173.71	.77	174.03	600.00	786.70	2714.94	1548.35	600.00	800.00	1000.00	1045.80	1400.00
63550.000	172.97	.00	173.15	1714.80	472.61	2501.73	2075.66	.00	.00	997.00	1048.80	.00
63550.000	173.79	.82	174.08	600.00	644.59	3127.77	1277.64	600.00	800.00	997.00	1048.80	1400.00
64540.000	173.53	.00	173.62	1907.95	529.78	2048.89	2131.33	.00	.00	997.60	1048.10	.00
64540.000	174.49	.96	174.65	700.00	323.71	2529.97	1856.33	700.00	900.00	997.60	1048.10	1600.00
64560.000	173.54	.00	173.63	1909.79	554.65	1931.37	2223.98	.00	.00	998.50	1047.20	.00
64560.000	174.50	.96	174.65	700.00	342.91	2415.98	1951.11	700.00	900.00	998.50	1047.20	1600.00
64580.000	173.55	.00	173.64	1911.36	580.26	1810.73	2319.01	.00	.00	999.40	1046.30	.00
64580.000	174.51	.96	174.66	700.00	363.07	2297.19	2049.74	700.00	900.00	999.40	1046.30	1600.00

SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
64600.000	173.56	.00	173.65	1913.69	608.48	1690.46	2411.06	.00	.00	1000.30	1045.40	.00
64600.000	174.52	.96	174.68	700.00	385.66	2179.28	2145.07	700.00	900.00	1000.30	1045.40	1600.00
64620.000	173.58	.00	173.66	1916.22	629.83	1579.07	2501.10	.00	.00	1001.10	1044.70	.00
64620.000	174.54	.96	174.69	700.00	403.23	2063.30	2243.46	700.00	900.00	1001.10	1044.70	1600.00
64640.000	173.59	.00	173.67	1919.14	657.04	1451.28	2601.68	.00	.00	1001.90	1043.80	.00
64640.000	174.55	.96	174.70	700.00	425.83	1930.25	2353.92	700.00	900.00	1001.90	1043.80	1600.00
64660.000	173.61	.00	173.68	1922.32	686.16	1317.11	2706.73	.00	.00	1002.90	1042.90	.00
64660.000	174.57	.96	174.71	700.00	451.03	1786.62	2472.36	700.00	900.00	1002.90	1042.90	1600.00
64680.000	173.63	.00	173.69	1925.81	710.10	1205.81	2794.09	.00	.00	1003.60	1042.10	.00
64680.000	174.59	.96	174.73	700.00	471.93	1665.18	2572.89	700.00	900.00	1003.60	1042.10	1600.00
64700.000	173.65	.00	173.71	1929.30	739.03	1072.67	2898.30	.00	.00	1004.50	1041.20	.00
64700.000	174.62	.97	174.75	700.00	498.13	1515.51	2696.35	700.00	900.00	1004.50	1041.20	1600.00
64720.000	173.67	.00	173.72	1933.19	765.59	946.56	2997.86	.00	.00	1005.00	1040.30	.00
64720.000	174.65	.98	174.76	700.00	521.95	1371.64	2816.42	700.00	900.00	1005.00	1040.30	1600.00
64730.000	173.72	.00	173.73	1690.96	882.65	933.95	2893.40	.00	.00	1000.00	1124.00	.00
64730.000	174.76	1.04	174.78	700.00	579.63	1250.08	2880.28	700.00	900.00	1000.00	1124.00	1600.00
64756.000	174.00	.00	174.01	1759.57	893.29	900.13	2916.58	.00	.00	1000.00	1124.00	.00
64756.000	174.83	.83	174.85	700.00	579.25	1251.16	2879.50	700.00	900.00	1000.00	1124.00	1600.00
64766.000	173.95	.00	174.04	1745.85	503.07	2562.84	1644.09	.00	.00	1000.00	1124.00	.00
64766.000	174.77	.82	174.88	700.00	280.15	3037.67	1392.18	700.00	900.00	1000.00	1124.00	1600.00

FLOODWAY DATA, BLACK RIVER - COE
PROFILE NO. 2

STATION	WIDTH	FLOODWAY SECTION AREA	MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WATER SURFACE ELEVATION WITHOUT FLOODWAY	DIFFERENCE
38000.000	1100.	7881.	.7	152.9	151.9	1.0
38800.000	1000.	7103.	.8	153.1	152.2	.9
39600.000	900.	6415.	.9	153.5	152.6	.9
41200.000	800.	5502.	1.0	154.3	153.5	.8
42800.000	800.	5293.	1.1	155.2	154.4	.8
44400.000	800.	5072.	1.1	156.0	155.3	.7
45700.000	700.	4100.	1.4	156.9	156.2	.7
45710.000	700.	4356.	1.3	157.2	156.5	.7
45740.000	700.	4338.	1.3	157.3	156.6	.7
45750.000	700.	4164.	1.4	157.1	156.5	.6
45800.000	700.	4382.	1.3	157.1	156.5	.6
46600.000	800.	4773.	1.2	157.7	156.9	.8
47300.000	800.	4635.	1.2	158.3	157.4	.9
47350.000	800.	4658.	1.2	158.3	157.4	.9
48450.000	800.	4149.	1.4	159.2	158.3	.9
49550.000	900.	4625.	1.2	160.3	159.5	.8
50300.000	1100.	5765.	.9	160.9	160.2	.7
50750.000	1100.	5492.	1.0	161.2	160.4	.8
51000.000	1100.	5489.	1.0	161.4	160.6	.8
51050.000	1100.	5388.	1.0	161.4	160.6	.8
51350.000	1100.	6311.	.8	161.7	160.8	.9
51360.000	143.	931.	5.7	161.4	160.4	1.0
51370.000	143.	933.	5.7	161.5	160.5	1.0
51600.000	700.	4236.	1.3	161.8	161.2	.6
51500.000	700.	4151.	1.3	161.8	161.2	.6
52500.000	700.	3858.	1.4	162.7	161.8	.9
52900.000	700.	2910.	1.8	163.0	162.1	.9
53800.000	950.	3973.	1.3	164.2	163.2	1.0
54200.000	950.	4051.	1.3	164.6	163.7	.9
54500.000	950.	4122.	1.3	164.9	164.0	.9
54550.000	950.	4312.	1.2	165.1	164.1	1.0
54650.000	950.	4138.	1.3	165.3	164.3	1.0
56150.000	700.	3202.	1.7	166.3	165.6	.7
56800.000	700.	2770.	1.9	167.0	166.2	.8
56810.000	600.	2662.	2.0	167.4	166.6	.8
56840.000	600.	2851.	1.8	167.8	167.3	.5
56850.000	600.	2725.	1.9	167.5	167.1	.4
56900.000	600.	2741.	1.9	167.5	167.1	.4
57575.000	600.	2574.	2.0	168.1	167.6	.5
58290.000	600.	3293.	1.6	168.9	168.2	.7
58300.000	600.	3409.	1.5	169.2	168.6	.6
58340.000	600.	3995.	1.3	170.2	169.7	.5

FLOODWAY DATA, BLACK RIVER - COE
PROFILE NO. 2

STATION	WIDTH	FLOODWAY		WATER SURFACE ELEVATION		
		SECTION AREA	MEAN VELOCITY	WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE
58350.000	600.	3980.	1.3	170.0	169.5	.5
58440.000	600.	3933.	1.3	170.1	169.6	.5
58880.000	600.	3778.	1.4	170.3	169.8	.5
59760.000	600.	3476.	1.5	170.8	170.3	.5
60215.000	600.	3521.	1.5	171.1	170.7	.4
60500.000	600.	3476.	1.5	171.4	170.9	.5
60550.000	600.	3633.	1.4	171.4	170.9	.5
61115.000	600.	3453.	1.5	171.8	171.2	.6
61125.000	115.	945.	5.3	171.7	171.0	.7
61211.000	115.	949.	5.3	171.8	171.1	.7
61220.000	600.	3537.	1.4	172.0	171.5	.5
61570.000	600.	3534.	1.4	172.3	171.7	.6
62620.000	600.	3590.	1.4	173.0	172.3	.7
62800.000	600.	3512.	1.4	173.1	172.4	.7
63320.000	600.	3494.	1.4	173.5	172.8	.7
63500.000	600.	3471.	1.5	173.7	172.9	.8
63550.000	600.	3617.	1.4	173.8	173.0	.8
64540.000	700.	4755.	1.0	174.5	173.5	1.0
64560.000	700.	4734.	1.0	174.5	173.5	1.0
64580.000	700.	4709.	1.0	174.5	173.5	1.0
64600.000	700.	4674.	1.0	174.6	173.6	1.0
64620.000	700.	4675.	1.0	174.6	173.6	1.0
64640.000	700.	4662.	1.0	174.6	173.6	1.0
64660.000	700.	4650.	1.0	174.6	173.6	1.0
64680.000	700.	4646.	1.0	174.6	173.6	1.0
64700.000	700.	4643.	1.0	174.7	173.7	1.0
64720.000	700.	4642.	1.0	174.7	173.7	1.0
64730.000	700.	4250.	1.1	174.7	173.7	1.0
64756.000	700.	4314.	1.1	174.8	174.0	.8
64766.000	700.	4264.	1.1	174.8	174.0	.8