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SPENCER, N.C.
ROCKY BRANCH

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PROGRAMMER=NAK ACCOUNT=RTI.A25.P03076

JOB TURN-AROUND

JOB PARAMETERS

TIME USED INCLUDES

MISC. JOB VALUES

	DATE	TIME	SPECIFIED	USED		NO.	EQUIVALENT		
ENTERED	10/06/77	15:59:29.7	TIME	2:00.0	0:16.4	CPU	0:05.5	LINES IN	142
EXECUTED	10/06/77	18:50:26.0	PAGES	100	14	UR EXCPS	0:03.6	LINES OUT	658
RETURNED	10/07/77	12:42:27.3	CARDS	0	0	DISK EXCPS	0:09.4	MEMORY TIME	9190 K-SEC
JOB ENTERED ON THURSDAY			PLOTS	0	0	TAPE HEAD-WRITE	0:03.0	PRIORITY	00
						TAPE FILE SEARCH	0:00.0	APPROX. COST	\$3.82

JOB CONSOLE LOG

N 18.50.23 JOB 974 -- RMAKS7 -- JCL INTERPRETED, TUCC CPU #2
N 18.50.26 JOB 974 -- RMAKS7 -- BEGINNING EXEC - INIT 4 - CLASS
L*18.50.26 JOB 974 +++++S=06A,T=02,J=RMAKS7 18:50:26 NAK
N 18.50.59 JOB 974 END EXECUTION.

MADE IN U.S.A.

SB	0.900	1.500	2.500	0.0	5.000	0.010	10.200	0.0	0.0	0.0
X1	2080.000	0.0	0.0	0.0	40.000	40.000	40.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	646.400	648.900	0.0	0.0	0.0	0.0	0.0
BT	24.000	1000.000	664.300	0.0	1100.000	661.400	0.0	1200.000	659.300	0.0
BT	1300.000	656.900	0.0	1400.000	655.300	0.0	1500.000	654.000	0.0	1600.000
BT	651.800	0.0	1700.000	649.800	0.0	1800.000	649.300	0.0	1900.000	648.900
BT	0.0	1950.500	649.500	644.900	1951.000	649.500	646.000	1952.000	649.500	646.400
BT	1953.000	649.500	646.000	1953.500	649.500	644.900	1954.000	649.600	644.800	1954.500
BT	649.600	645.700	1955.000	649.600	645.800	1955.500	649.600	645.700	1956.000	649.600
BT	644.800	2000.000	650.800	0.0	2050.000	653.700	0.0	2100.000	657.500	0.0
BT	2153.000	665.900	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.055	0.055	0.055	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	2130.000	14.000	1304.000	1318.000	50.000	50.000	50.000	0.0	1.800	0.0
GR	665.600	1000.000	654.900	1100.000	661.000	1132.000	648.200	1200.000	648.400	1207.000
GR	647.900	1226.000	648.400	1304.000	642.800	1308.000	642.800	1314.000	649.700	1318.000
GR	652.800	1380.000	657.700	1400.000	664.300	1500.000	665.600	1518.000	0.0	0.0

X1	2180.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.400	0.0
BT	5.000	231.000	433.000	542.000	815.000	542.000	0.0	0.0	0.0	0.0

X1	3105.000	9.000	1135.000	1164.000	925.000	925.000	925.000	0.0	-6.600	0.0
GR	686.000	1000.000	671.300	1100.000	666.600	1135.000	665.100	1141.000	664.400	1150.000
GR	664.800	1159.000	667.900	1164.000	674.800	1200.000	686.000	1273.000	0.0	0.0

X1	3155.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	1.200	0.0
NC	0.025	0.025	0.025	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	3205.000	15.000	1385.000	1389.000	50.000	50.000	50.000	0.0	0.0	0.0
GR	683.600	1000.000	675.500	1100.000	668.700	1200.000	666.200	1300.000	666.800	1340.000
GR	662.400	1372.000	662.200	1385.000	660.500	1386.000	660.200	1387.000	660.500	1388.000
GR	662.200	1369.000	663.700	1401.000	674.700	1464.000	678.700	1500.000	683.600	1537.000
SB	0.900	1.500	2.500	0.0	4.000	0.010	12.600	0.0	0.0	0.0

X1	3255.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	604.200	666.200	0.0	0.0	0.0	0.0	0.0
BT	12.000	1000.000	683.600	0.0	1100.000	675.500	0.0	1200.000	668.700	0.0
BT	1300.000	666.200	0.0	1385.000	667.400	662.200	1386.000	667.400	663.900	1387.000
BT	667.400	664.200	1388.000	667.400	663.900	1389.000	667.400	662.200	1400.000	668.100
BT	0.0	1500.000	678.700	0.0	1537.000	683.600	0.0	0.0	0.0	0.0
NC	0.055	0.055	0.055	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	3305.000	9.000	1135.000	1164.000	50.000	50.000	50.000	0.0	-1.200	0.0
GR	686.000	1000.000	671.300	1100.000	666.600	1135.000	665.100	1141.000	664.400	1151.000
GR	664.800	1159.000	667.900	1164.000	674.800	1200.000	686.000	1273.000	0.0	0.0

X1	3355.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	1.200	0.0
BT	5.000	202.000	368.000	483.000	733.000	483.000	0.0	0.0	0.0	0.0

X1	3492.000	12.000	1125.000	1134.000	137.000	137.000	137.000	0.0	-2.300	0.0
GR	696.100	1000.000	690.200	1060.000	680.400	1100.000	677.900	1125.000	675.700	1127.000
GR	675.500	1130.000	675.000	1132.000	678.200	1134.000	681.000	1183.000	691.000	1242.000
GR	695.600	1300.000	696.100	1308.000	0.0	0.0	0.0	0.0	0.0	0.0

XI	3542.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.400	0.0
NC	0.025	0.025	0.025	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	3592.000	20.000	1338.000	1342.000	50.000	50.000	50.000	0.0	0.0	0.0
GR	702.800	1000.000	698.800	1100.000	692.800	1200.000	691.700	1241.000	688.700	1270.000
GR	678.900	1310.000	676.000	1335.000	676.000	1338.000	674.300	1339.000	674.000	1340.000
GR	674.300	1341.000	676.000	1342.000	676.700	1344.000	679.500	1393.000	690.000	1460.000
GR	690.600	1500.000	691.200	1500.000	695.200	1700.000	700.600	1800.000	702.800	1821.000
SB	0.900	1.500	2.500	0.0	4.000	0.010	12.600	0.0	0.0	0.0

X1	3658.000	0.0	0.0	0.0	66.000	66.000	66.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	678.000	688.800	0.0	0.0	0.0	0.0	0.0
BT	15.000	1000.000	702.800	0.0	1100.000	698.800	0.0	1200.000	692.800	0.0
BT	1300.000	689.400	0.0	1338.000	688.800	676.000	1339.000	688.800	677.700	1340.000
BT	688.800	678.000	1341.000	688.800	677.700	1342.000	688.800	676.600	1400.000	689.200
BT	0.0	1500.000	690.200	0.0	1600.000	691.200	0.0	1700.000	695.200	0.0
BT	1800.000	700.600	0.0	1821.000	702.800	0.0	0.0	0.0	0.0	0.0
NC	0.055	0.055	0.055	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	3708.000	12.000	1125.000	1134.000	50.000	50.000	50.000	0.0	-0.400	0.0
GR	696.100	1000.000	690.200	1060.000	680.400	1100.000	677.900	1125.000	675.700	1127.000
GR	675.500	1130.000	675.800	1132.000	678.200	1134.000	681.000	1183.000	691.000	1242.000
GR	695.600	1300.000	696.100	1308.000	0.0	0.0	0.0	0.0	0.0	0.0

X1	3758.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.400	0.0
BT	5.000	143.000	200.000	358.000	559.000	358.000	0.0	0.0	0.0	0.0

X1	4036.000	9.000	1113.000	1126.000	278.000	278.000	278.000	0.0	0.0	0.0
GR	700.600	1000.000	685.700	1180.000	683.300	1113.000	679.300	1117.000	679.400	1122.000
GR	683.300	1126.000	686.300	1200.000	696.200	1300.000	700.800	1386.000	0.0	0.0

X1	4086.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.700	0.0
NC	0.025	0.025	0.025	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	4136.000	15.000	1202.000	1206.000	50.000	50.000	50.000	0.0	0.0	0.0
GR	703.100	1000.000	693.600	1100.000	689.800	1166.000	684.600	1198.000	682.600	1202.000
GR	680.900	1203.000	690.600	1204.000	680.900	1205.000	682.600	1206.000	684.600	1211.000
GR	687.600	1285.000	694.700	1357.000	696.300	1400.000	700.500	1500.000	703.100	1596.000
SB	0.900	1.500	2.500	0.0	4.000	0.010	12.600	0.0	0.0	0.0

X1	4184.000	0.0	0.0	0.0	48.000	48.000	48.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	684.600	687.900	0.0	0.0	0.0	0.0	0.0
BT	12.000	1000.000	703.100	0.0	1100.000	593.600	0.0	1200.000	687.900	0.0
BT	1202.000	687.700	682.600	1203.000	687.900	684.300	1204.000	687.900	684.600	1205.000
BT	687.900	684.300	1206.000	687.900	682.600	1300.000	692.800	0.0	1400.000	696.300
BT	0.0	1500.000	700.500	0.0	1596.000	703.100	0.0	0.0	0.0	0.0
NC	0.055	0.055	0.055	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	4234.000	9.000	1113.000	1126.000	50.000	50.000	50.000	0.0	2.900	0.0
GR	700.600	1000.000	685.700	1100.000	683.300	1113.000	679.300	1117.000	679.400	1122.000
GR	683.300	1126.000	686.300	1200.000	696.200	1300.000	700.800	1386.000	0.0	0.0

X1	4284.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.600	0.0
EJ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

MADE IN U.S.A.

HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977

ERROR CORR - 01

MODIFICATION - 50,51,52

T1 SPENCER-ROWAN CO. BASIN F STRM 5-7S ROCKY BRANCH
T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918
T3 50 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INO	NINV	YDIR	STRT	METRIC	HVINS	Q	WSEL	FO
	-10.	3.	0.	0.	0.008000	0.0	0.0	0.	637.000	0.0
J2	NPROF	IPLT	PRFS	XSECV	XSECH	FN	ALOC	IBW	CHMIN	ITRACE
	2.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

MADE IN U.S.A.

 HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977
 ERROR CORR - 01
 MODIFICATION - 50,51,52

T1 SPENCER-ROWAN CO. BASIN E STRM 5-7S ROCKY BRANCH
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES H-5 JOB NO. 5916
 T3 100 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INO	MINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FG
	-10.	4.	0.	0.	0.008000	0.0	0.0	0.	638.000	0.0
J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLOC	IBW	CHNIM	ITRACE
	3.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

MADE IN U.S.A.

HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977

ERROR CORK - 01

MODIFICATION - 50,51,52

T1 SPENCER-BOWMAN CO. BASIN E STRM 5-7S ROCKY BRANCH
T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 5918
T3 500 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	ING	WINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FO
	-10.	5.	0.	0.	0.008000	0.0	0.0	0.	639.000	0.0

J2	NPROF	IPLOT	PRFS	XSECV	XSECH	FN	ALLDC	IRW	CHNIN	ITRACE
	15.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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HCC2 RELEASE DATED NOV 76 UPDATED FEB 1977

ERROR CORR - 01

MODIFICATION - 50,51,52

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

10 YEAR FLOOD WATER SURF

SUMMARY PRINTOUT

CROSS-SECTION	SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	GWSEL	CRWS	VCH	SSTA	ENDST	AREA	DIFWSP
	550.000	550.00	0.0	0.0	504.00	631.40	636.06	0.0	5.19	1103.60	1135.62	97.11	0.0
	550.000	550.00	0.0	0.0	876.00	631.40	637.54	0.0	6.08	1008.12	1205.30	164.23	1.48
A	550.000	550.00	0.0	0.0	1060.00	631.40	637.89	0.0	6.39	1062.25	1212.97	210.91	0.35
	550.000	550.00	0.0	0.0	1495.00	631.40	638.46	0.0	6.90	1052.41	1225.44	304.47	0.57
	1940.000	1390.00	0.0	0.0	503.00	642.80	648.84	0.0	5.77	1104.44	1317.50	135.55	0.0
	1940.000	1390.00	0.0	0.0	865.00	642.80	649.51	0.0	5.68	1158.26	1317.89	229.77	0.67
B	1940.000	1390.00	0.0	0.0	1045.00	642.80	649.75	0.0	5.75	1152.28	1319.07	267.39	0.25
	1940.000	1390.00	0.0	0.0	1466.00	642.80	650.23	0.0	6.01	1150.76	1328.56	346.75	0.47
	1990.000	50.00	0.0	0.0	503.00	643.20	649.41	0.0	4.94	1180.22	1317.60	159.04	0.0
	1990.000	50.00	0.0	0.0	865.00	643.20	649.96	0.0	5.46	1167.01	1317.92	237.47	0.55
	1990.000	50.00	0.0	0.0	1045.00	643.20	650.19	0.0	5.65	1161.65	1319.59	271.49	0.23
	1990.000	50.00	0.0	0.0	1466.00	643.20	650.65	0.0	5.97	1150.48	1328.78	348.75	0.46
*	2040.000	50.00	0.0	0.0	503.00	643.40	649.79	649.79	6.78	1701.59	1963.40	164.71	0.0
	2040.000	50.00	0.0	0.0	865.00	643.40	650.11	0.0	7.61	1684.43	1974.96	252.67	0.32
	2040.000	50.00	0.0	0.0	1045.00	643.40	650.43	0.0	6.30	1668.24	1986.73	351.27	0.32
	2040.000	50.00	0.0	0.0	1466.00	643.40	650.95	0.0	5.41	1642.53	2002.58	526.25	0.52
	2080.000	40.00	648.90	646.40	503.00	643.40	649.94	0.0	5.49	1692.69	1968.95	205.83	0.0
	2080.000	40.00	648.90	646.40	865.00	643.40	650.29	0.0	6.14	1675.54	1981.42	305.69	0.34
	2080.000	40.00	648.90	646.40	1045.00	643.40	650.58	0.0	5.40	1660.85	1992.11	399.28	0.29
	2080.000	40.00	648.90	646.40	1466.00	643.40	651.10	0.0	4.75	1634.69	2005.26	583.50	0.53
*	2130.000	50.00	0.0	0.0	503.00	644.60	650.56	650.56	6.22	2186.44	1317.45	124.68	0.0
	2130.000	50.00	0.0	0.0	865.00	644.60	650.98	650.98	7.30	1176.27	1317.70	141.72	0.42
	2130.000	50.00	0.0	0.0	1045.00	644.60	651.14	651.14	7.81	1172.36	1317.79	204.86	0.16
*	2130.000	50.00	0.0	0.0	1466.00	644.60	651.44	651.44	8.71	1164.99	1317.97	250.14	0.30
	2180.000	50.00	0.0	0.0	503.00	645.00	651.25	0.0	4.78	1179.31	1317.62	164.21	0.0
	2180.000	50.00	0.0	0.0	865.00	645.00	651.82	0.0	5.23	1165.57	1317.95	246.45	0.57
C	2180.000	50.00	0.0	0.0	1045.00	645.00	652.03	0.0	5.45	1160.34	1320.67	280.07	0.22
	2180.000	50.00	0.0	0.0	1466.00	645.00	652.47	0.0	5.90	1149.94	1329.23	352.77	0.43
	3105.000	925.00	0.0	0.0	231.00	657.80	659.95	0.0	5.71	1135.20	1161.82	40.43	0.0
	3105.000	925.00	0.0	0.0	433.00	657.80	660.77	0.0	6.81	1129.27	1163.14	65.13	0.82
D	3105.000	925.00	0.0	0.0	542.00	657.80	661.13	0.0	7.22	1126.56	1163.73	78.08	0.37
	3105.000	925.00	0.0	0.0	815.00	657.80	661.84	0.0	8.20	1121.52	1166.80	106.98	0.70

MADE IN U.S.A.

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SECNO	XLCH	ELTRD	ELLC	D	ELMIN	CJSEL	CRWS	VCH	SSTA	ENDST	AREA	DIFWSP
3155.000	50.00	0.0	0.0	231.00	659.00	661.23	0.0	5.44	1134.81	1161.94	42.43	0.0
3155.000	50.00	0.0	0.0	433.00	659.00	661.92	0.0	6.95	1129.61	1163.07	63.61	0.68
3155.000	50.00	0.0	0.0	542.00	659.00	662.23	0.0	7.56	1127.33	1163.56	74.26	0.31
3155.000	50.00	0.0	0.0	815.00	659.00	662.85	662.76	8.70	1122.67	1165.85	98.95	0.63
* 3205.000	50.00	0.0	0.0	231.00	660.20	663.61	663.61	7.34	1363.17	1400.31	41.48	0.0
* 3205.000	50.00	0.0	0.0	433.00	660.20	664.18	664.18	8.40	1359.06	1403.74	64.65	0.57
* 3205.000	50.00	0.0	0.0	542.00	660.20	664.47	664.47	8.50	1356.91	1405.44	78.45	0.30
* 3205.000	50.00	0.0	0.0	815.00	660.20	664.93	664.98	9.36	1353.24	1408.33	104.62	0.51
3255.000	50.00	666.20	664.20	231.00	660.20	663.62	0.0	7.30	1363.14	1400.35	41.65	0.0
3255.000	50.00	666.20	664.20	433.00	660.20	667.68	0.0	1.45	1240.55	1423.83	390.09	4.06
3255.000	50.00	666.20	664.20	542.00	660.20	667.88	0.0	1.67	1232.68	1424.96	427.07	0.21
3255.000	50.00	666.20	664.20	815.00	660.20	668.30	0.0	2.11	1216.10	1427.33	510.69	0.41
* 3305.000	50.00	0.0	0.0	231.00	663.20	665.14	665.14	6.65	1136.05	1161.48	54.75	0.0
3305.000	50.00	0.0	0.0	433.00	663.20	667.55	0.0	3.90	1118.99	1168.43	121.56	2.41
3305.000	50.00	0.0	0.0	542.00	663.20	667.70	0.0	4.63	1117.95	1169.23	129.43	0.15
3305.000	50.00	0.0	0.0	815.00	663.20	667.93	0.0	6.45	1116.13	1170.44	141.63	0.23
3355.000	50.00	0.0	0.0	231.00	664.40	666.76	0.0	5.03	1133.81	1162.16	46.02	0.0
3355.000	50.00	0.0	0.0	433.00	664.40	667.68	0.0	5.92	1126.96	1163.64	75.93	0.92
3355.000	50.00	0.0	0.0	542.00	664.40	667.88	0.0	6.80	1125.48	1163.97	83.43	0.20
3355.000	50.00	0.0	0.0	815.00	664.40	668.29	668.16	8.67	1122.38	1166.05	100.48	0.41
* 3492.000	137.00	0.0	0.0	202.00	673.20	676.70	676.70	6.88	1114.02	1147.97	36.89	0.0
* 3492.000	137.00	0.0	0.0	368.00	673.20	677.42	677.42	7.69	1106.80	1160.60	68.57	0.72
* 3492.000	137.00	0.0	0.0	483.00	673.20	677.74	677.74	8.21	1103.63	1166.14	86.99	0.32
* 3492.000	137.00	0.0	0.0	733.00	673.20	678.27	678.27	8.91	1099.31	1175.45	124.05	0.53
3542.000	50.00	0.0	0.0	202.00	673.60	677.72	0.0	4.50	1107.75	1158.92	63.54	0.0
3542.000	50.00	0.0	0.0	368.00	673.60	678.43	0.0	5.21	1100.72	1171.23	106.33	0.71
3542.000	50.00	0.0	0.0	483.00	673.60	678.78	0.0	5.49	1098.86	1177.38	132.56	0.34
3542.000	50.00	0.0	0.0	733.00	673.60	679.33	0.0	6.02	1096.63	1184.33	178.42	0.55
3592.000	50.00	0.0	0.0	202.00	674.00	677.87	0.0	6.74	1320.23	1364.60	44.02	0.0
3592.000	50.00	0.0	0.5	368.00	674.00	678.61	0.0	6.48	1312.84	1377.53	84.34	0.74
3592.000	50.00	0.0	0.0	483.00	674.00	678.95	0.0	6.62	1309.79	1383.39	107.53	0.34
3592.000	50.00	0.0	0.0	733.00	674.00	679.49	0.0	6.93	1307.61	1392.75	149.98	0.54
3658.000	66.00	688.80	678.00	202.00	674.00	683.86	0.0	0.36	1289.75	1420.82	623.19	0.0
3658.000	66.00	688.80	678.00	368.00	674.00	689.53	0.0	0.25	1261.95	1457.02	1536.93	5.67
3658.000	66.00	688.80	678.00	483.00	674.00	689.83	0.0	0.32	1259.05	1458.93	1596.15	0.30
3658.000	66.00	688.80	678.00	733.00	674.00	690.26	0.0	0.46	1254.93	1477.23	1684.77	0.42
3708.000	50.00	0.0	0.0	202.00	675.10	683.86	0.0	0.52	1084.25	1202.22	490.25	0.0
3708.000	50.00	0.0	0.0	368.00	675.10	689.53	0.0	0.33	1061.10	1235.69	1320.17	5.67
3708.000	50.00	0.0	0.0	483.00	675.10	689.83	0.0	0.42	1059.68	1237.45	1372.92	0.30
3708.000	50.00	0.0	0.0	733.00	675.10	690.25	0.0	0.61	1055.37	1239.96	1449.76	0.42
3758.000	50.00	0.0	0.0	202.00	675.50	683.86	0.0	0.58	1085.83	1199.86	443.93	0.0
3758.000	50.00	0.0	0.0	368.00	675.50	689.53	0.0	0.35	1062.73	1233.33	1251.14	5.67
3758.000	50.00	0.0	0.0	483.00	675.50	689.83	0.0	0.45	1061.50	1235.10	1302.74	0.30
3758.000	50.00	0.0	0.0	733.00	675.50	690.26	0.0	0.64	1059.43	1237.61	1377.31	0.42

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SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRWS	VCH	SSTA	ENDST	AREA	DIFWSP
4036.000	278.00	0.0	0.0	143.00	679.30	683.77	0.0	3.38	1110.47	1137.54	44.92	0.0
4036.000	278.00	0.0	0.0	280.00	679.30	689.53	0.0	0.59	1074.62	1232.66	633.71	5.77
4036.000	278.00	0.0	0.0	358.00	679.30	689.83	0.0	0.70	1072.62	1235.70	682.00	0.30
4036.000	278.00	0.0	0.0	559.00	679.30	690.26	0.0	0.98	1069.79	1240.01	753.20	0.43
4086.000	50.00	0.0	0.0	143.00	680.00	684.00	0.0	4.02	1112.98	1126.09	35.60	0.30
4086.000	50.00	0.0	0.0	280.00	680.00	689.53	0.0	0.72	1079.24	1225.60	527.36	5.53
4086.000	50.00	0.0	0.0	358.00	680.00	689.84	0.0	0.85	1077.25	1228.64	572.21	0.30
4086.000	50.00	0.0	0.0	559.00	680.00	690.26	0.0	1.17	1074.41	1232.98	638.73	0.43
4136.000	50.00	0.0	0.0	143.00	680.60	684.60	684.60	7.79	1198.00	1211.00	22.38	0.0
4136.000	50.00	0.0	0.0	280.00	680.60	689.53	0.0	0.87	1167.62	1304.64	434.87	4.94
4136.000	50.00	0.0	0.0	358.00	680.60	689.84	0.0	1.00	1165.33	1307.70	477.01	0.30
4136.000	50.00	0.0	0.0	559.00	680.60	690.27	0.0	1.35	1157.84	1312.07	540.98	0.43
4184.000	48.00	687.90	684.60	143.00	680.60	687.59	0.0	1.12	1179.55	1284.97	199.96	0.0
4184.000	48.00	687.90	684.60	280.00	680.60	687.95	0.0	0.75	1163.24	1308.92	494.34	2.36
4184.000	48.00	687.90	684.60	358.00	680.60	690.25	0.0	0.86	1157.97	1312.00	559.78	0.30
4184.000	48.00	687.90	684.60	559.00	680.60	690.79	0.0	1.14	1148.75	1317.38	625.49	0.53
4234.000	50.00	0.0	0.0	143.00	682.20	687.55	0.0	2.28	1105.66	1159.42	80.79	0.0
4234.000	50.00	0.0	0.0	280.00	682.20	689.95	0.0	1.38	1091.03	1207.62	293.36	2.39
4234.000	50.00	0.0	0.0	358.00	682.20	690.25	0.0	1.55	1089.03	1210.67	329.28	0.30
4234.000	50.00	0.0	0.0	559.00	682.20	690.77	0.0	1.98	1085.55	1215.98	395.54	0.53
4284.000	50.00	0.0	0.0	143.00	682.80	687.61	0.0	2.93	1108.59	1146.10	56.13	0.0
4284.000	50.00	0.0	0.0	280.00	682.80	689.96	0.0	1.84	1095.00	1201.56	226.41	2.34
4284.000	50.00	0.0	0.0	358.00	682.80	690.26	0.0	2.03	1093.01	1204.61	259.30	0.30
4284.000	50.00	0.0	0.0	559.00	682.80	690.79	0.0	2.50	1089.48	1209.98	321.03	0.53

SUMMARY OF ERRORS

CAUTION SECNO= 2040.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 2040.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 2040.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 2130.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 2130.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 2130.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 2130.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 2130.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 2130.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 2130.000 PROFILE= 3 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 2130.000 PROFILE= 3 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 2130.000 PROFILE= 3 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 2130.000 PROFILE= 4 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 2130.000 PROFILE= 4 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 2130.000 PROFILE= 4 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 3205.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 3205.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 3205.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 3205.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 3205.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 3205.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 3205.000 PROFILE= 3 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 3205.000 PROFILE= 3 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 3205.000 PROFILE= 3 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 3205.000 PROFILE= 4 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 3205.000 PROFILE= 4 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 3205.000 PROFILE= 4 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 3305.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 3305.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 3305.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 3492.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 3492.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 3492.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 3492.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 3492.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 3492.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 3492.000 PROFILE= 3 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 3492.000 PROFILE= 3 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 3492.000 PROFILE= 3 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 3492.000 PROFILE= 4 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 3492.000 PROFILE= 4 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 3492.000 PROFILE= 4 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 4136.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 4136.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 4136.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL

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FLOOD INSURANCE ZONE DATA FOR 10 YEAR FLOOD WATER SURF

FLOOD HAZARD FACTOR FOR ENTIRE REACH USING SECTIONS

SECTION NUMBER	CUMULATIVE DISTANCE	ELEVATION DIFFERENCE BETWEEN BASE FLOOD AND		
		10f	20	0.20
550.000	0.	-1.8	-0.3	0.5
1940.000	1390.	-0.9	-0.2	0.5
1990.000	1440.	-0.7	-0.2	0.5
2040.000	1490.	-0.6	-0.3	0.5
2080.000	1530.	-0.6	-0.3	0.5
2130.000	1580.	-0.6	-0.2	0.3
2180.000	1630.	-0.6	-0.2	0.4
3105.000	2555.	-1.2	-0.4	0.7
3155.000	2605.	-1.0	-0.3	0.6
3205.000	2655.	-0.9	-0.3	0.5
3255.000	2705.	-4.3	-0.2	0.4
3305.000	2755.	-2.6	-0.2	0.2
3355.000	2805.	-1.1	-0.2	0.4
3492.000	2942.	-1.0	-0.3	0.5
3542.000	2992.	-1.1	-0.3	0.5
3592.000	3042.	-1.1	-0.3	0.5
3658.000	3108.	-6.0	-0.3	0.4
3708.000	3158.	-6.0	-0.3	0.4
3758.000	3208.	-6.0	-0.3	0.4
4036.000	3486.	-6.1	-0.3	0.4
4086.000	3536.	-5.8	-0.3	0.4
4136.000	3586.	-5.2	-0.3	0.4
4184.000	3634.	-2.7	-0.3	0.5
4234.000	3684.	-2.7	-0.3	0.5
4234.000	3734.	-2.0	-0.3	0.5
WEIGHTED AVG FOR REACH		-1.9	-0.3	0.5

FHF FOR THE REACH = 0.20 WITH 1.30 OF THE REACH WITHIN 0.5 FEET ZONE FOR THE REACH = A 4

CONTINUOUS FLOOD HAZARD FACTORS BY EVEN INCREMENTS

INC NO.	TOTAL LENGTH	AVG ELEVATION DATA			WTD. AVG.	FHF	PERCENT WITHIN
		100	10	DIFF.			
	0.						
					SEC.	550,000	
1	100.	636.5	638.3	-1.8	-1.8	0.20	100.
2	200.	637.4	639.2	-1.7	-1.8	0.20	100.
3	300.	638.4	640.0	-1.7	-1.7	0.15	100.
4	400.	639.3	640.9	-1.6	-1.7	0.15	100.
5	500.	640.2	641.7	-1.5	-1.7	0.15	100.
6	600.	641.1	642.6	-1.5	-1.6	0.15	100.
7	700.	642.0	643.4	-1.4	-1.6	0.15	100.

9	900.	643.9	645.1	-1.3	-1.5	015	100.
10	1000.	644.8	646.0	-1.2	-1.5	015	100.
11	1100.	645.7	646.9	-1.1	-1.5	015	100.
12	1200.	646.6	647.7	-1.1	-1.4	015	100.
13	1300.	647.6	648.6	-1.0	-1.4	015	100.
	1390.					SEC.	1940.000
14	1400.	648.5	649.4	-0.9	-1.4	015	100.
	1440.					SEC.	1990.000
	1490.					SEC.	2040.000
15	1500.	649.8	650.4	-0.6	-1.3	015	93.
	1530.					SEC.	2080.000
	1580.					SEC.	2130.000
16	1600.	650.7	651.3	-0.6	-1.3	015	81.
	1630.					SEC.	2180.000
17	1700.	651.4	652.1	-0.7	-1.2	010	76.
18	1800.	652.4	653.2	-0.8	-1.2	010	78.
19	1900.	653.3	654.2	-0.9	-1.2	010	79.
20	2000.	654.3	655.2	-0.9	-1.2	010	80.
21	2100.	655.2	656.2	-1.0	-1.2	010	81.
22	2200.	656.1	657.1	-1.0	-1.2	010	82.
23	2300.	657.1	658.1	-1.1	-1.2	010	83.
24	2400.	658.0	659.1	-1.1	-1.2	010	79.
25	2500.	659.0	660.1	-1.1	-1.2	010	80.
	2555.					SEC.	3105.000
26	2600.	660.3	661.4	-1.1	-1.2	010	81.
	2605.					SEC.	3153.000
	2655.					SEC.	3205.000
27	2700.	663.6	666.0	-2.4	-1.2	010	81.
	2705.					SEC.	3255.000
	2755.					SEC.	3305.000
28	2800.	665.9	667.8	-1.9	-1.2	010	82.
	2805.					SEC.	3355.000
29	2900.	670.1	671.3	-1.2	-1.2	010	79.
	2942.					SEC.	3492.000
	2992.					SEC.	3542.000
30	3000.	677.7	678.8	-1.1	-1.2	010	80.
	3042.					SEC.	3592.000
31	3100.	680.4	683.7	-3.2	-1.3	015	77.
	3108.					SEC.	3658.000
	3158.					SEC.	3708.000
32	3200.	683.9	689.8	-6.0	-1.4	015	69.
	3208.					SEC.	3758.000
33	3300.	683.8	689.8	-6.0	-1.6	015	52.
34	3400.	683.8	689.8	-6.0	-1.7	015	32.
	3486.					SEC.	4036.000
35	3500.	683.8	689.8	-6.0	-1.8	020	26.
	3536.					SEC.	4086.000
	3586.					SEC.	4136.000
36	3600.	685.0	689.9	-4.9	-1.9	020	22.
	3634.					SEC.	4184.000
	3684.					SEC.	4234.000
37	3700.	687.6	690.2	-2.7	-1.9	020	22.
	3734.					SEC.	4284.000

THIS REACH CAN BE SUBDIVIDED BY INC NO. TO MEET FIA REQUIREMENTS
INPUT 20N WHERE N IS THE NUMBER OF REACHES AND THEN INPUT THE END
OF EACH REACH BY INC NO. FOR EXAMPLED 202 30 37
A NEGATIVE INC NO. WILL SUPPRESS INTERMEDIATE INC OUTPUT.

HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977

ERROR CORR - 01

MODIFICATION - 50,51,52

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