
 HLC2 RELEASE DATED NOV 76 UPDATED FEB 1977
 ERROR CORR - 01
 MODIFICATION - 50,51,52

T1 SALISBURY-ROWAN CO. STREAM 2SAL HENDERSON BRANCH TRIBUTARY
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918
 T3 10 YEAR FLOOD WATER SURFACE PROFILE

J1 ICHECK INQ MINV IDIR STRT METRIC HVINS Q WSEL FB
 -1. 2. 0. 0. 0.018000 0.0 0.0 0. 694.600 0.0

J2 NPROF IPILOT PRFVS XSECV XSECH FN ALLDC IBW CHNIM ITRACE
 0.0 0.0 -1.000 0.0 0.0 0.0 0.0 0.0 0.0 0.0

J3 VARIABLE CODES FOR SUMMARY PRINTOUT
 38.000 39.000 40.000 41.000 43.000 42.000 1.000 2.000 26.000 53.000

54.000 25.000 50.000 0.0 201.000 0.0 0.0 0.0 0.0 0.0

J4 LPRINT MURSEC *****REQUESTED SECTION NUMBERS*****
 -10.330 0.0 0.0 0.0 0.0 6.0 0.0 0.0 0.0 0.0 0.0

NC 0.055 0.055 0.035 0.100 0.300 0.0 0.0 0.0 0.0 0.0 0.0
 JT 5.000 139.000 279.000 359.000 568.000 359.000 0.0 0.0 0.0 0.0 0.0
 ET 5.000 0.0 0.0 0.0 0.0 0.0 -10.400 0.0 0.0 0.0 0.0

X1 305.000 11.000 1308.000 1326.000 305.000 305.000 305.000 0.0 -5.200 0.0
 GR 715.200 1000.000 708.100 1100.000 701.400 1200.000 697.700 1300.000 697.800 1308.000
 GR 699.000 1310.000 694.800 1315.000 695.100 1320.000 698.300 1326.000 698.500 1334.000
 GR 715.200 1368.000 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

X1 355.000 0.0 0.0 0.0 50.000 50.000 50.000 0.0 1.100 0.0
 NC 0.025 0.025 0.025 0.100 0.300 0.0 0.0 0.0 0.0 0.0

X1 405.000 16.000 1323.000 1329.000 50.000 50.000 50.000 0.0 0.0 0.0
 GR 715.500 1000.000 706.600 1100.000 704.600 1140.000 699.900 1211.000 696.200 1311.000
 GR 696.300 1310.000 695.000 1323.000 692.500 1323.000 692.500 1329.000 695.000 1329.000
 GR 696.800 1337.000 697.000 1345.000 700.000 1350.000 706.900 1450.000 714.000 1550.000
 GR 715.500 1579.000 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
 SB 0.900 1.500 2.500 0.0 6.000 0.010 28.500 0.0 0.0 0.0

X1 445.000 0.0 0.0 0.0 40.000 40.000 40.000 0.0 0.0 0.0
 X2 0.0 0.0 1.000 697.500 699.600 0.0 0.0 0.0 0.0 0.0
 BT 16.000 1000.000 715.500 0.0 1100.000 706.800 0.0 1200.000 701.400 0.0
 BT 1300.000 699.700 0.0 1323.000 699.500 697.000 1324.000 699.600 697.200 1325.000
 BT 699.600 697.400 1326.000 699.600 697.500 1327.000 699.600 697.400 1328.000 699.600
 BT 697.200 1329.000 699.600 697.000 1329.100 699.600 0.0 1350.000 700.000 0.0

BT	1450.600	706.900	0.0	1550.000	714.000	0.0	1579.000	715.000	0.0	0.0
NC	0.055	0.055	0.035	0.100	0.300	0.0	0.0	0.0	0.0	0.0
X1	425.000	11.000	1300.000	1326.000	50.000	50.000	50.000	0.0	-1.200	0.0
GR	715.200	1000.000	708.100	1100.000	701.400	1200.000	697.700	1300.000	697.800	1308.000
GR	695.000	1310.000	694.000	1315.000	695.100	1320.000	698.300	1326.000	698.500	1334.000
GR	715.200	1368.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X1	545.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	1.200	0.0
BT	5.000	136.000	272.000	351.000	554.000	351.000	0.0	0.0	0.0	0.0
X1	373.000	11.000	1302.000	1308.000	328.000	328.000	328.000	0.0	0.0	0.0
GR	723.100	1000.000	715.300	1100.000	707.700	1200.000	703.600	1302.000	700.600	1304.000
GR	700.500	1305.000	700.500	1306.000	704.100	1308.000	704.500	1316.000	721.800	1400.000
GR	723.100	1408.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X1	923.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	1.100	0.0
NC	0.025	0.025	0.025	0.100	0.300	0.0	0.0	0.0	0.0	0.0
X1	373.000	20.000	1480.700	1485.300	50.000	50.000	50.000	0.0	0.0	0.0
GR	728.500	1000.000	724.700	1100.000	723.900	1135.000	718.700	1200.000	711.400	1300.000
GR	710.300	1400.000	707.700	1411.000	707.700	1480.000	706.900	1480.700	705.800	1481.000
GR	704.800	1482.000	704.600	1483.000	704.800	1484.000	705.800	1485.000	706.900	1485.300
GR	708.200	1486.000	708.600	1494.000	721.300	1555.000	726.400	1600.000	728.500	1618.000
SR	0.900	1.500	2.500	0.0	4.600	0.010	16.600	0.0	0.0	0.0
X1	1027.000	0.0	0.0	0.0	54.000	54.000	54.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	709.100	710.300	0.0	0.0	0.0	0.0	0.0
BT	15.000	1000.000	728.500	0.0	1100.000	724.700	0.0	1200.000	718.700	0.0
BT	1300.000	711.400	0.0	1480.000	710.300	0.0	1480.700	713.700	706.900	1481.000
BT	713.700	707.900	1482.000	713.700	708.900	1483.000	713.700	709.100	1484.000	713.700
BT	708.900	1485.000	713.700	707.900	1485.300	713.700	706.900	1500.000	715.000	0.0
BT	1600.000	726.400	0.0	1618.000	728.500	0.0	0.0	0.0	0.0	0.0
NC	0.055	0.055	0.035	0.100	0.300	0.0	0.0	0.0	0.0	0.0
X1	1077.000	11.000	1302.000	1308.000	50.000	50.000	50.000	0.0	5.200	0.0
GR	723.100	1000.000	715.300	1100.000	707.700	1200.000	703.600	1302.000	700.600	1304.000
GR	700.500	1305.000	700.500	1306.000	704.100	1308.000	704.500	1316.000	721.800	1400.000
GR	723.100	1408.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X1	1127.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	1.100	0.0
BT	5.000	124.000	247.000	319.000	506.000	319.000	0.0	0.0	0.0	0.0
X1	1359.000	13.000	1219.000	1232.000	263.000	263.000	263.000	0.0	0.0	0.0
GR	732.700	1000.000	721.700	1100.000	718.200	1166.000	712.800	1202.000	712.300	1219.000
GR	709.300	1222.000	709.100	1225.000	709.400	1228.000	714.900	1232.000	715.300	1239.000
GR	723.200	1300.000	731.100	1400.000	732.700	1428.000	0.0	0.0	0.0	0.0
X1	1440.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.100	0.0
NC	0.025	0.025	0.025	0.100	0.300	0.0	0.0	0.0	0.0	0.0
X1	1490.000	19.000	1869.700	1872.200	50.000	50.000	50.000	0.0	0.0	0.0
GR	743.200	1363.000	748.400	1400.000	748.700	1509.000	732.900	1646.000	721.900	1746.000
GR	718.400	1812.000	713.000	1848.000	712.500	1865.000	711.000	1869.700	709.300	1869.700
GR	707.300	1872.200	711.000	1872.200	715.100	1878.000	715.500	1885.000	723.400	1945.000

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GR	731.300	2046.000	732.300	2074.000	749.500	2337.000	749.500	2400.000	0.0	0.0
SR	0.900	2.500	2.500	0.0	2.500	0.010	8.800	0.0	0.0	0.0
X1	1867.000	19.000	1869.700	1872.200	377.000	377.000	377.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	717.000	748.200	0.0	0.0	0.0	0.0	0.0
BT	10.000	1363.000	748.200	0.0	1400.000	748.400	0.0	1600.000	748.900	0.0
BT	1800.000	749.000	0.0	1869.700	749.000	717.000	1872.200	749.000	717.000	1872.300
BT	749.000	0.0	2000.000	749.000	0.0	2200.000	749.400	0.0	2400.000	749.500
BT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GR	748.200	1363.000	748.400	1400.000	748.900	1560.000	738.900	1646.000	727.900	1746.000
GR	724.400	1812.000	719.000	1848.000	716.500	1885.000	717.000	1869.700	715.300	1869.700
GR	715.300	1872.200	717.000	1872.200	721.100	1878.000	721.500	1885.000	729.400	1946.000
GR	737.300	2046.000	738.900	2074.000	749.400	2238.000	749.500	2400.000	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	1917.000	13.000	1219.000	1232.000	50.000	50.000	50.000	0.0	6.300	0.0
GR	732.700	1000.000	721.700	1100.000	718.200	1166.000	712.800	1202.000	712.300	1219.000
GR	709.300	1222.000	709.100	1225.000	709.400	1228.000	714.900	1232.000	715.300	1239.000
GR	723.200	1300.000	731.100	1400.000	732.700	1428.000	0.0	0.0	0.0	0.0

X1	1967.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.100	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.

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

T1 SALISBURY-ROWAN CO. STREAM 2SAL
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6910
 T3 100 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	IWD	NINV	TDIR	STRY	METRIC	HVINS	Q	WSEL	FQ
	-10.	4.	0.	0.	0.010000	0.0	0.0	0.	697.600	0.0

J2	NPROF	IPLT	PRFS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	15.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

MADE IN U.S.A.

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 HEC2 RELEASE DATED NOV 75 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

	SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRWS	VCH	SSTA	ENDSI	AREA	DIFWSP
* A	305.000	305.00	0.0	0.0	139.00	689.60	691.44	691.44	6.84	1304.83	1322.86	20.31	0.0
*	305.000	305.00	0.0	0.0	359.00	689.60	692.96	692.96	7.84	1287.47	1325.74	50.93	1.53
*	355.000	50.00	0.0	0.0	139.00	690.70	692.53	692.53	6.86	1306.83	1322.88	20.27	0.0
*	355.000	50.00	0.0	0.0	359.00	690.70	694.07	694.07	7.83	1287.40	1325.75	51.02	1.53
*	405.000	50.00	0.0	0.0	139.00	692.50	694.99	694.99	9.31	1323.00	1329.00	14.93	0.0
*	405.000	50.00	0.0	0.0	359.00	692.50	697.21	697.21	7.39	1293.56	1345.36	69.28	2.23
*	445.000	40.00	699.60	697.50	139.00	692.50	695.20	0.0	8.57	1322.38	1329.90	16.37	0.0
*	445.000	40.00	699.60	697.50	359.00	692.50	700.11	0.0	1.27	1207.71	1351.70	369.32	4.91
*	495.000	50.00	0.0	0.0	139.00	693.60	696.50	0.0	3.79	1306.07	1324.87	36.66	0.0
*	495.000	50.00	0.0	0.0	359.00	693.60	700.10	0.0	1.95	1202.64	1339.70	336.18	3.60
* B	545.000	50.00	0.0	0.0	139.00	694.80	696.63	696.63	6.86	1308.83	1322.88	20.25	0.0
*	545.000	50.00	0.0	0.0	359.00	694.80	700.07	0.0	3.13	1235.93	1337.20	189.41	3.44
* C	873.000	328.00	0.0	0.0	136.00	700.50	704.59	704.59	6.35	1277.33	1316.44	32.26	0.0
*	873.000	328.00	0.0	0.0	351.00	700.50	705.55	705.55	7.84	1253.37	1321.12	53.75	0.96
*	923.000	50.00	0.0	0.0	136.00	701.50	705.68	705.68	6.40	1277.55	1316.40	31.94	0.0
*	923.000	50.00	0.0	0.0	351.00	701.50	706.38	706.50	8.27	1255.26	1320.76	78.85	0.90
* D	973.000	50.00	0.0	0.0	136.00	704.60	708.15	708.15	5.24	1409.10	1485.97	46.13	0.0
*	973.000	50.00	0.0	0.0	351.00	704.60	708.55	708.55	7.27	1407.41	1492.98	78.40	0.40
* E	1027.000	54.00	710.30	709.10	136.00	704.60	708.15	0.0	5.23	1409.09	1485.97	46.21	0.0
*	1027.000	54.00	710.30	709.10	351.00	704.60	708.55	0.0	7.25	1407.40	1493.02	78.59	0.40
*	1077.000	50.00	0.0	0.0	136.00	705.70	709.79	709.79	6.35	1277.32	1316.45	32.30	0.0
*	1077.000	50.00	0.0	0.0	351.00	705.70	710.69	710.69	8.19	1254.86	1320.83	79.75	0.90
* F	1127.000	50.00	0.0	0.0	136.00	706.80	710.88	710.88	6.40	1277.57	1316.40	31.91	0.0
*	1127.000	50.00	0.0	0.0	351.00	706.80	711.82	711.82	8.05	1258.29	1320.94	81.27	0.94
* G	1390.000	263.00	0.0	0.0	124.00	709.10	712.67	0.0	4.07	1206.45	1230.38	32.47	0.0
*	1390.000	263.00	0.0	0.0	319.00	709.10	713.87	0.0	5.92	1194.84	1231.25	70.73	1.20

SEENO	XLCH	ELTPD	ELLC	Q	ELMIN	CWSEL	CRWS	VCH	SSTA	ENDST	AREA	DIFWSP
1440.000	50.00	0.0	0.0	124.00	709.20	712.85	0.0	5.93	1203.65	1230.44	34.56	0.0
1440.000	50.00	0.0	0.0	319.00	709.20	714.19	0.0	5.39	1193.41	1231.41	78.74	1.34
H 1490.000	50.00	0.0	0.0	124.00	709.30	713.07	713.07	6.65	1847.51	1875.13	24.23	0.0
H 1490.000	50.00	0.0	0.0	319.00	709.30	714.37	0.0	5.50	1838.86	1876.97	66.88	1.30
I 1867.000	377.00	748.20	717.00	124.00	715.30	720.75	0.0	1.69	1836.36	1877.50	81.70	0.0
I 1867.000	377.00	748.20	717.00	319.00	715.30	748.77	0.0	0.03	1863.00	2228.11	9598.24	28.02
1917.000	50.00	0.0	0.0	124.00	715.40	720.76	0.0	1.80	1190.94	1231.68	93.30	0.0
1917.000	50.00	0.0	0.0	319.00	715.40	748.77	0.0	0.07	1000.00	1428.00	8343.26	28.01
J 1967.000	50.00	0.0	0.0	124.00	715.50	720.78	0.0	1.86	1191.50	1231.62	89.95	0.0
J 1967.000	50.00	0.0	0.0	319.00	715.50	748.77	0.0	0.07	1000.00	1428.00	8300.54	27.99

SUMMARY OF ERRORS

CAUTION	SECNO=	305.000	PROFILE=	1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	305.000	PROFILE=	2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	355.000	PROFILE=	1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	355.000	PROFILE=	1	MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	355.000	PROFILE=	2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	355.000	PROFILE=	2	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	355.000	PROFILE=	2	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=	405.000	PROFILE=	1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	405.000	PROFILE=	1	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	405.000	PROFILE=	1	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=	405.000	PROFILE=	2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	405.000	PROFILE=	2	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	405.000	PROFILE=	2	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=	445.000	PROFILE=	1	HYDRAULIC JUMP D.S.
CAUTION	SECNO=	445.000	PROFILE=	2	HYDRAULIC JUMP D.S.
CAUTION	SECNO=	545.000	PROFILE=	1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	545.000	PROFILE=	1	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	545.000	PROFILE=	1	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=	873.000	PROFILE=	1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	873.000	PROFILE=	1	MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	873.000	PROFILE=	2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	873.000	PROFILE=	2	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	873.000	PROFILE=	2	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=	923.000	PROFILE=	1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	923.000	PROFILE=	1	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	923.000	PROFILE=	1	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=	923.000	PROFILE=	2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	923.000	PROFILE=	2	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	923.000	PROFILE=	2	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=	973.000	PROFILE=	1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	973.000	PROFILE=	1	PROBABLE MINIMUM SPECIFIC ENERGY

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		
		100	20	0.20
305.000	0.	691.4	693.0	0.0
355.000	50.	685.7	687.2	****
405.000	100.	340.0	342.2	****
445.000	140.	2.7	7.6	0.0
495.000	190.	696.5	700.1	****
545.000	240.	557.6	561.1	553.5
873.000	568.	****	****	****
923.000	618.	6.1	7.0	-2.1
973.000	668.	699.6	700.0	****
1027.000	722.	213.2	213.6	****
1077.000	772.	13.3	14.2	****
1127.000	822.	710.9	711.8	0.0
1390.000	1085.	573.7	574.9	555.8
1440.000	1135.	****	****	****
1490.000	1185.	713.1	714.4	0.0
1867.000	1562.	714.4	742.4	****
1917.000	1612.	****	****	****
1967.000	1662.	15.1	43.1	0.0
WEIGHTED AVG FOR REACH		****	****	****

FHF FOR THE REACH = 00% WITH 0.00 OF THE REACH WITHIN 0.5 FEET ZONE FOR THE REACH = A 1

CONTINUOUS FLOOD HAZARD FACTORS BY EVEN INCREMENTS

INC NO.	TOTAL LENGTH	AVG ELEVATION DATA			WTD. AVG.	FHF	PERCENT WITHIN
		100	10	DIFF.			
1	0.					SEC.	305.000
	100.	692.5	6.8	685.7	685.7	005	100.
	50.					SEC.	355.000
	100.					SEC.	405.000
	140.					SEC.	445.000
	190.					SEC.	495.000
2	200.	696.5	13.9	682.6	684.2	005	0.
	240.					SEC.	545.000
3	300.	697.3	192.2	505.1	624.5	005	0.
4	400.	699.3	538.1	161.2	508.6	005	0.
5	500.	701.7	900.9	-199.2	367.1	005	0.
	568.					SEC.	873.000
6	600.	704.1	1004.2	-300.1	255.9	005	0.
	618.					SEC.	923.000
	668.					SEC.	973.000

7	700.	708.1	152.7	555.5	298.7	005	0.
	722.					SEC.	1027.000
	772.					SEC.	1077.000
8	800.	710.1	501.5	208.6	287.4	005	0.
	822.					SEC.	1127.000
9	900.	710.9	173.8	537.1	315.2	005	0.
10	1000.	711.8	67.7	644.1	348.1	005	0.
	1085.					SEC.	1390.000
11	1100.	712.4	294.1	418.3	354.4	005	0.
	1135.					SEC.	1440.000
	1185.					SEC.	1490.000
12	1200.	713.2	0.1	713.1	384.3	005	0.
13	1300.	714.4	1.1	713.3	409.6	005	0.
14	1400.	716.4	2.8	713.7	431.3	005	0.
15	1500.	718.5	4.5	714.0	450.2	005	0.
	1562.					SEC.	1867.000
16	1600.	720.1	354.2	366.0	444.9	005	0.
	1612.					SEC.	1917.000
	1662.					SEC.	1967.000

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 EXAMPLE C 202 1 16
 A NEGATIVE INC NO. WILL SUPPRESS INTERMEDIATE INC OUTPUT.

MADE IN U.S.A.

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