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

T1 SALISBURY-ROWAN CO. STREAM 155AL VANCE AVENUE BRANCH
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918
 T3 10 YEAR FLOOD WATER SURFACE PROFILE

J1 ICHECK INQ NINV IDIR STRT METRIC HVINS Q WSEL FO
 -1. 2. 0. 0. 0.039000 0.0 0.0 0. 707.100 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

J5 LPRNT NUMSEC *****REQUESTED SECTION NUMBERS*****

-10.000 0.0 0.0 0.0 0.0 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
 QT 5.000 194.000 77.000 478.000 736.000 478.000 0.0 0.0 0.0 0.0
 ET 5.000 0.0 0.0 0.0 0.0 -10.400 0.0 0.0 0.0 0.0

X1 200.000 18.000 1335.000 1357.000 200.000 200.000 200.000 0.0 0.0 0.0
 GR 718.800 1000.000 715.200 1100.000 712.400 1200.000 709.700 1300.000 708.700 1335.000
 GR 703.800 1352.000 702.100 1353.000 702.300 1354.000 702.300 1355.000 703.900 1357.000
 GR 711.900 1396.000 712.000 1400.000 712.300 1500.000 712.500 1600.000 713.900 1700.000
 GR 713.800 1800.000 713.800 1900.000 720.600 1950.000 0.0 0.0 0.0 0.0
 QT 5.000 182.000 355.000 452.000 698.000 452.000 0.0 0.0 0.0 0.0

X1 450.000 14.000 1327.000 1337.000 250.000 250.000 250.000 0.0 -4.100 0.0
 GR 722.700 1000.000 719.700 1100.000 715.200 1200.000 712.000 1300.000 710.800 1327.000
 GR 707.000 1331.000 706.500 1332.000 706.700 1335.000 710.400 1337.000 711.800 1344.000
 GR 713.100 1400.000 717.400 1500.000 722.500 1600.000 725.700 1696.000 0.0 0.0

X1 500.000 0.0 0.0 0.0 50.000 50.000 50.000 0.0 0.0 0.0
 NC 0.025 0.025 0.025 0.100 0.300 0.0 0.0 0.0 0.0 0.0

X1 550.000 21.000 1324.000 1328.000 50.000 50.000 50.000 0.0 0.0 0.0
 GR 719.300 1000.000 715.800 1100.000 713.200 1200.000 713.000 1243.000 711.500 1294.000
 GR 710.300 1321.000 708.000 1324.000 706.300 1325.000 706.000 1326.000 706.300 1327.000
 GR 708.000 1328.000 709.900 1331.000 711.300 1330.000 712.600 1394.000 714.300 1437.000
 GR 715.700 1500.000 718.500 1600.000 722.000 1700.000 725.600 1800.000 727.300 1900.000
 GR 729.400 2000.000 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

MADE IN U.S.A.

SB 0.900 1.500 2.500 0.0 4.000 0.010 12.400 0.0 0.0 0.0

X1	614.000	0.0	0.0	0.0	64.000	64.000	64.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	710.000	712.700	0.0	0.0	0.0	0.0	0.0
BT	16.000	1000.000	719.300	0.0	1100.000	715.800	0.0	1200.000	713.200	0.0
BT	1300.000	712.700	0.0	1324.000	712.800	708.000	1325.000	712.800	709.700	1326.000
BT	712.800	710.000	1327.000	712.800	709.700	1328.000	712.800	708.000	1400.000	713.600
BT	0.0	1500.000	715.700	0.0	1600.000	718.500	0.0	1700.000	722.000	0.0
BT	1800.000	725.600	0.0	1900.000	727.300	0.0	2000.000	729.400	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	664.000	14.000	1327.000	1337.000	50.000	50.000	50.000	0.0	-0.100	0.0
GR	722.700	1000.000	719.700	1100.000	715.200	1200.000	712.000	1300.000	710.800	1327.000
GR	707.000	1331.000	706.500	1332.000	700.700	1335.000	710.400	1337.000	711.800	1344.000
GR	713.100	1400.000	717.400	1500.000	722.500	1600.000	725.700	1686.000	0.0	0.0

X1	739.000	0.0	0.0	0.0	75.000	75.000	75.000	0.0	0.100	0.0
BT	5.000	164.000	319.000	407.000	630.000	407.000	0.0	0.0	0.0	0.0

X1	1220.000	11.000	1295.000	1315.000	481.000	461.000	481.000	0.0	-5.100	0.0
GR	740.500	1000.000	735.200	1100.000	728.900	1200.000	724.300	1295.000	720.600	1300.000
GR	720.600	1303.000	720.600	1306.000	726.200	1315.000	732.000	1400.000	737.500	1500.000
GR	741.700	1557.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

X1	1270.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.200	0.0
NC	0.025	0.025	0.025	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	1320.000	16.000	1498.500	1501.500	50.000	50.000	50.000	0.0	0.0	0.0
GR	746.200	1000.000	744.000	1100.000	735.600	1197.000	730.300	1297.000	724.000	1397.000
GR	719.400	1492.000	717.000	1498.500	715.700	1498.500	715.700	1501.500	717.000	1501.500
GR	721.300	1512.000	727.100	1597.000	732.600	1697.000	736.800	1754.000	739.700	1800.000
GR	745.500	1897.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SB	0.900	2.500	2.500	0.0	3.000	0.010	9.000	0.0	0.0	0.0

X1	1520.000	17.000	1498.500	1501.500	200.000	200.000	200.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	722.000	736.800	0.0	0.0	0.0	0.0	0.0
BT	12.000	1000.000	746.200	0.0	1100.000	744.000	0.0	1200.000	742.600	0.0
BT	1300.000	740.700	0.0	1400.000	736.500	0.0	1498.500	736.800	722.000	1501.500
BT	736.800	722.000	1501.600	736.800	0.0	1600.000	736.900	0.0	1700.000	737.900
BT	0.0	1800.000	739.700	0.0	1897.000	745.500	0.0	0.0	0.0	0.0
GR	746.200	1000.000	744.000	1100.000	743.300	1152.000	740.900	1197.000	735.600	1297.000
GR	729.300	1397.000	724.700	1492.000	722.000	1498.500	721.000	1498.500	721.000	1501.500
GR	722.000	1501.500	726.600	1512.000	732.400	1597.000	737.900	1697.000	737.900	1700.000
GR	739.700	1800.000	745.500	1897.000	0.0	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

X1	1570.000	11.000	1295.000	1315.000	50.000	50.000	50.000	0.0	0.400	0.0
GR	740.500	1000.000	735.200	1100.000	728.900	1200.000	724.300	1295.000	720.600	1300.000
GR	720.600	1303.000	720.600	1306.000	726.200	1315.000	732.000	1400.000	737.500	1500.000
GR	741.700	1557.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

X1	1620.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.0	0.0
BT	5.000	138.000	269.000	344.000	537.000	344.000	0.0	0.0	0.0	0.0

X1	2020.000	10.000	1300.000	1313.000	400.000	400.000	400.000	0.0	0.0	0.0
GR	745.200	1000.000	737.400	1100.000	733.300	1200.000	726.100	1300.000	721.500	1305.000

MADE IN U.S.A.

GR 721,500 1307,000 721,500 1309,000 727,500 1313,000 732,300 1400,000 738,500 1500,000
EJ 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

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

T1 SALISBURY-ROWAN CO. STREAM 15SAL
T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918
T3 100 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-10.	4.	0.	0.	0.039000	0.0	0.0	0.	710.100	0.0
J2	NPROF	IPLT	PRFVS	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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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	ENDST	AREA	DIFWSP
* A 200.000	200.00	0.0	0.0	194.00	702.10	705.78	705.78	7.51	1345.13	1366.17	30.68	0.0
* 200.000	200.00	0.0	0.0	478.00	702.10	707.07	707.07	9.07	1340.64	1372.47	64.86	1.29
B 450.000	250.00	0.0	0.0	182.00	702.40	707.71	0.0	4.30	1304.34	1344.32	55.19	0.0
450.000	250.00	0.0	0.0	452.00	702.40	709.16	0.0	4.79	1260.65	1403.70	189.04	1.45
500.000	50.00	0.0	0.0	182.00	702.40	707.87	0.0	3.99	1300.54	1351.59	62.87	0.0
500.000	50.00	0.0	0.0	452.00	702.40	709.30	0.0	4.36	1255.90	1407.24	211.44	1.43
* C 550.000	50.00	0.0	0.0	182.00	706.00	710.68	710.68	7.91	1312.45	1334.90	29.05	0.0
* 550.000	50.00	0.0	0.0	452.00	706.00	711.93	711.93	8.38	1279.22	1365.36	87.65	1.26
D 614.000	64.00	712.70	710.00	182.00	706.00	713.17	0.0	1.23	1204.42	1400.66	254.45	0.0
614.000	64.00	712.70	710.00	452.00	706.00	713.74	0.0	2.01	1170.06	1422.95	382.02	0.57
664.000	50.00	0.0	0.0	182.00	706.40	713.16	0.0	1.93	1260.69	1403.68	188.90	0.0
664.000	50.00	0.0	0.0	452.00	706.40	713.71	0.0	3.45	1243.40	1416.55	276.33	0.55
E 739.000	75.00	0.0	0.0	182.00	706.50	713.18	0.0	2.04	1263.35	1401.70	176.89	0.0
739.000	75.00	0.0	0.0	452.00	706.50	713.73	0.0	3.51	1244.34	1415.84	271.12	0.60
* F 1220.000	481.00	0.0	0.0	164.00	715.50	717.83	717.83	7.47	1296.86	1309.74	21.96	0.0
* 1220.000	481.00	0.0	0.0	407.00	715.50	719.32	719.32	9.16	1292.60	1312.13	44.57	1.49
1270.000	50.00	0.0	0.0	164.00	715.70	718.82	0.0	4.95	1295.78	1311.01	33.12	0.0
1270.000	50.00	0.0	0.0	407.00	715.70	720.52	0.0	6.24	1271.79	1313.75	75.55	1.71
* G 1320.000	50.00	0.0	0.0	164.00	715.70	719.28	719.28	8.29	1442.32	1507.07	24.15	0.0
1320.000	50.00	0.0	0.0	407.00	715.70	720.73	0.0	8.14	1464.54	1510.61	66.78	1.45
H 1520.000	200.00	736.80	722.00	164.00	721.00	732.17	0.0	0.22	1361.42	1593.65	957.76	0.0
1520.000	200.00	736.80	722.00	407.00	721.00	737.58	0.0	0.17	1259.65	1691.18	2767.36	5.41
1570.000	50.00	0.0	0.0	164.00	721.00	732.17	0.0	0.33	1154.44	1396.63	972.95	0.0
1570.000	56.00	0.0	0.0	407.00	721.00	737.58	0.0	0.29	1062.66	1494.16	2782.61	9.41
I 1620.000	50.00	0.0	0.0	164.00	721.00	732.17	0.0	0.33	1154.43	1396.64	973.00	0.0
1620.000	50.00	0.0	0.0	407.00	721.00	737.58	0.0	0.29	1062.66	1494.16	2782.61	5.41

MADE IN U.S.A.

SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRWS	VCH	SSTA	ENDST	AREA	DIFWSP
J 2020.000	400.00	0.0	0.0	130.00	721.50	732.17	0.0	0.50	1215.67	1397.68	569.07	0.0
2020.000	400.00	0.0	0.0	344.00	721.50	737.58	0.0	0.32	1097.70	1485.15	2089.60	5.41

SUMMARY OF ERRORS:

CAUTION SECNO= 200.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 200.000 PROFILE= 2 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 550.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 550.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 550.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 550.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 550.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 550.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 1220.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 1220.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 1220.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 1220.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 1220.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 1220.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 1320.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 1320.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 1320.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL

MADE IN U.S.A.

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		
		10E	2E	0.2E
200.000	0.	705.8	707.1	0.0
450.000	250.	700.2	701.7	*****
500.000	300.	257.9	259.3	*****
550.000	350.	3.0	4.2	*****
614.000	414.	713.2	713.7	0.0
664.000	464.	531.2	531.7	520.4
739.000	539.	*****	*****	*****
1220.000	1020.	717.8	719.3	0.0
1270.000	1070.	710.9	712.6	*****
1320.000	1120.	105.3	106.7	*****
1520.000	1320.	19.0	24.4	*****
1570.000	1370.	732.2	737.6	0.0
1620.000	1420.	550.2	555.6	524.4
2020.000	1820.	*****	*****	*****

WEIGHTED AVG FOR REACH *****

FHF FOR THE REACH = 005 WITH 0.0E OF THE REACH WITHIN 0.5 FEET
 ZONE FOR THE REACH = 4 1

CONTINUOUS FLOOD HAZARD FACTORS BY EVEN INCREMENTS

INC. NO.	TOTAL LENGTH	AVG. ELEVATION DATA			WTD. AVG.	FHF	PERCENT WITHIN
		10E	2E	DIFF.			
1	10.	706.2	1.5	704.7	704.7	005	100.
	50.	706.9	4.5	702.4	703.5	005	0.
3	300.	707.6	228.0	479.6	628.9	005	0.
	350.					SEC.	500.000
4	400.	711.7	431.3	270.4	541.0	005	0.
	414.					SEC.	614.000
5	500.	713.2	462.7	250.5	463.5	005	0.
	539.					SEC.	739.000
6	600.	713.5	261.4	-248.3	361.5	005	0.
7	700.	714.3	1039.7	-325.4	263.4	005	0.
8	800.	715.2	758.7	-43.5	225.0	005	0.
9	900.	716.2	477.7	238.5	226.5	005	0.
10	1000.	717.1	196.7	520.5	255.9	005	0.
	1020.					SEC.	1220.000
	1070.					SEC.	1270.000

11	1100.	719.0	189.7	529.2	280.8	005	9.
	1120.					SEC.	1320.000
12	1200.	721.8	512.4	209.2	274.8	005	0.
13	1300.	727.7	678.5	49.2	257.4	005	0.
	1320.					SEC.	1520.000
	1370.					SEC.	1570.000
14	1400.	732.2	54.6	677.6	287.5	005	0.
	1420.					SEC.	1620.000
15	1500.	732.2	267.8	464.4	299.3	005	0.
16	1600.	732.2	579.0	153.1	290.1	005	0.
17	1700.	732.2	864.5	-152.3	264.1	005	0.
18	1800.	732.2	1189.5	-457.7	224.0	005	0.
	1820.					SEC.	2020.000

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 202 1 18
 A NEGATIVE INC NO. WILL SUPPRESS INTERMEDIATE INC OUTPUT.

MADE IN U.S.A.

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