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

J1 FAITH-RWAN COUNTY BASIN 6 STREAM 7-1F UNNAMED STREAM
 J2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918
 J3 10 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INO	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FG
	-10.	2.	0.	0.	0.016000	0.0	0.0	0.	773.100	0.0

J2	NPROF	IPLT	PRFS	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 COOLES FOR SUMMARY PRINTOUT									
	30.000	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
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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

MADE IN U. S. A.

 HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977
 ERGOR CORR - 01
 MODIFICATION - 50.51.52

T1 FAITH-ROWAN COUNTY BASIN G. STREAM 7-1F UNNAMED STREAM
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES N-G JOB NO. 6218
 T3 100 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INQ	NINV	IDIB	STRT	METRIC	HVINS	Q	WSEL	FR
	-10.	4.	0.	0.	0.016000	0.0	0.0	0.	776.100	0.0

J2	NPROF	IPLOT	PREVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIN	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	XLGN	ELTRD	ELLC	Q	ELMIN	CWSEL	CRWS	VCH	SSTA	ENDST	AREA	DIFWSP
— STA. 3+00 FAITH CORP LIMITS												
* A 800.000	800.00	0.0	0.0	198.00	768.10	771.37	771.08	8.06	1098.86	1147.86	25.20	0.0
* A 600.000	800.00	0.0	0.0	488.00	768.10	772.83	772.83	8.28	1088.82	1154.47	97.05	1.47
* B 2275.000	1475.00	0.0	0.0	159.00	803.90	807.94	807.94	6.62	1084.79	1123.83	37.50	0.0
* B 2275.000	1475.00	0.0	0.0	406.00	803.90	808.70	808.70	8.86	1080.82	1128.85	70.63	0.76
* 2475.000	200.00	0.0	0.0	159.00	821.90	825.40	825.40	5.23	1346.51	1422.62	41.73	0.0
* 2475.000	200.00	0.0	0.0	406.00	821.90	825.78	825.78	6.46	1335.34	1435.01	75.49	0.38
2500.000	25.00	824.70	823.90	159.00	821.90	825.68	0.0	2.99	1338.24	1431.79	65.86	0.0
2500.000	25.00	824.70	823.90	406.00	821.90	826.30	0.0	3.20	1320.29	1451.70	135.29	0.62
* C 2575.000	75.00	0.0	0.0	159.00	824.00	826.61	826.61	8.28	1350.20	1396.41	39.80	0.0
* C 2575.000	75.00	0.0	0.0	406.00	824.00	827.33	827.33	9.78	1344.00	1417.19	82.30	0.72
2650.000	75.00	0.0	0.0	154.00	826.10	827.16	0.0	1.00	1119.57	1373.08	132.46	0.0
2650.000	75.00	0.0	0.0	393.00	826.10	827.91	0.0	1.05	1108.41	1396.94	324.43	0.75
2675.000	28.00	828.70	827.40	154.00	826.10	827.16	0.0	1.01	1119.65	1372.92	131.31	0.0
2675.000	28.00	828.70	827.40	393.00	826.10	829.82	0.0	0.36	1080.06	1446.96	954.42	2.66
* D 2690.000	20.00	0.0	0.0	154.00	827.50	828.63	828.63	0.0	1000.00	1062.88	35.58	0.0
* D 2690.000	20.00	0.0	0.0	393.00	827.50	829.80	0.0	1.43	1000.00	1546.00	259.89	1.17
* E 3540.000	650.00	0.0	0.0	141.00	837.30	839.70	0.0	4.26	1397.39	1490.41	51.19	0.0
* E 3540.000	650.00	0.0	0.0	358.00	837.30	840.15	840.15	6.37	1385.02	1513.62	102.89	0.46
3590.000	50.00	0.0	0.0	141.00	837.40	840.03	0.0	3.31	1315.18	1428.86	67.23	0.0
3590.000	50.00	0.0	0.0	358.00	837.40	840.66	0.0	3.25	1298.11	1453.15	152.08	0.63
3630.000	35.00	841.60	838.90	141.00	837.40	842.34	0.0	0.34	1252.47	1518.08	507.24	0.0
3630.000	35.00	841.60	838.90	358.00	837.40	842.60	0.0	0.67	1240.15	1529.34	634.23	0.45
* F 3700.000	75.00	0.0	0.0	141.00	841.30	843.92	843.92	6.58	1308.31	1348.21	34.69	0.0
* F 3700.000	75.00	0.0	0.0	358.00	841.30	844.91	844.91	7.33	1236.47	1372.53	102.11	0.99
3700.000	75.00	0.0	0.0	141.00	841.30	844.58	0.0	2.56	1503.21	1722.59	87.78	0.0
3700.000	75.00	0.0	0.0	358.00	841.30	845.44	0.0	1.78	1414.26	1763.63	330.81	0.86

SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CRSEL	CRWS	VCH	SSTA	ENDST	AREA	DIFWSP
3841.000	58.00	844.10	842.80	141.00	841.30	844.99	0.0	1.32	1450.57	1742.64	187.52	0.0
3841.000	58.00	844.10	842.80	358.00	841.30	845.59	0.0	1.46	1406.78	1771.47	389.57	0.61
* G 3891.000	50.00	0.0	0.0	141.00	842.00	844.75	0.0	5.89	1306.10	1349.48	39.98	0.0
3891.000	50.00	0.0	0.0	358.00	842.00	845.60	845.60	7.36	1237.11	1371.80	101.41	0.86
H 4800.000	909.00	0.0	0.0	89.00	852.90	854.74	854.62	5.27	1071.63	1102.91	24.85	0.0
4800.000	909.00	0.0	0.0	240.00	852.90	855.42	855.25	7.25	1067.38	1109.12	49.12	0.68
* 4850.000	50.00	0.0	0.0	89.00	855.60	857.36	857.36	5.13	1264.27	1285.93	17.26	0.0
* 4850.000	50.00	0.0	0.0	240.00	855.60	858.17	858.17	5.73	1260.68	1290.91	38.00	0.81
4899.000	49.00	860.10	857.10	89.00	855.60	860.85	0.0	0.59	1000.00	1220.07	134.53	0.0
4899.000	49.00	860.10	857.10	240.00	855.60	861.29	0.0	1.26	1000.00	1222.26	181.56	0.44
I 4946.000	50.00	0.0	0.0	89.00	858.30	860.82	0.0	2.67	1067.32	1109.21	49.50	0.0
4946.000	50.00	0.0	0.0	240.00	858.30	861.16	0.0	5.60	1065.11	1112.69	65.05	0.34
* J 5400.000	454.00	0.0	0.0	84.00	863.70	866.73	866.73	6.28	1106.07	1143.73	24.78	0.0
* 5400.000	454.00	0.0	0.0	223.00	863.70	867.40	867.40	7.61	1095.58	1151.46	56.72	0.67

SUMMARY OF ERRORS

CAUTION SECNO= 800.000 PROFILE= 2 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 2275.000 PROFILE= 1 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 2275.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 2275.000 PROFILE= 2 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 2275.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 2275.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 2475.000 PROFILE= 1 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 2475.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 2475.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 2475.000 PROFILE= 2 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 2475.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 2475.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 2575.000 PROFILE= 1 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 2575.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 2575.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 2575.000 PROFILE= 2 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 2575.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 2575.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 2698.000 PROFILE= 1 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 2698.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 2698.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 3548.000 PROFILE= 2 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 3548.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 3548.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 3708.000 PROFILE= 1 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 3708.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 3708.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 3708.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 3708.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 3708.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 3891.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 3891.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 3891.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 4850.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 4850.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 4850.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 4850.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 4850.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 4850.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 5400.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 5400.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 5400.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 5400.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 5400.000 PROFILE= 2 MINIMUM SPECIFIC ENERGY

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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		
		10C	2C	0.2C
800.000	0.	771.4	772.8	0.0
2275.000	1475.	799.9	800.6	*****
2475.000	1675.	*****	*****	*****
2500.000	1700.	17.7	18.4	0.0
2575.000	1775.	826.6	827.3	*****
2650.000	1850.	668.2	668.9	662.9
2678.000	1678.	*****	*****	*****
2698.000	1898.	3.9	5.1	-0.8
3548.000	2748.	836.7	837.2	*****
3598.000	2798.	*****	*****	*****
3633.000	2833.	15.7	16.2	0.0
3708.000	2908.	843.9	844.9	1.0
3783.000	2983.	690.6	691.4	672.1
3841.000	3041.	*****	*****	*****
3891.000	3091.	16.0	16.9	-1.3
4800.000	4000.	853.7	854.4	*****
4850.000	4050.	*****	*****	*****
4899.000	4099.	32.2	32.7	0.0
4946.000	4149.	860.8	861.2	11.0
5400.000	4603.	725.7	726.4	696.3

WEIGHTED AVG FOR REACH. **** ** ** *

FHF FOR THE REACH = 005 WITH 0.0C 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.	PERCENT WITHIN
		10C	1C	DIFF.		
	0.					
1	100.	772.6	0.3	772.3	772.3	100.
2	200.	775.1	0.8	774.3	773.3	0.
3	300.	777.6	1.4	776.2	774.3	33.
4	400.	780.0	1.9	778.1	778.2	0.
5	500.	782.5	2.5	780.1	776.2	20.
6	600.	785.0	3.0	782.0	777.2	0.
7	700.	787.5	3.6	783.9	778.1	14.
8	800.	790.0	4.1	785.9	779.1	0.
9	900.	792.4	4.6	787.8	780.1	11.
10	1000.	794.9	5.2	789.7	781.0	0.
11	1100.	797.4	5.7	791.7	782.0	9.
12	1200.	799.9	6.3	793.6	783.0	0.

13	1300.	802.4	6.8	795.5	783.9	005	8.
14	1400.	804.8	7.4	797.5	784.9	005	0.
	1475.					SEC.	2275.000
15	1500.	808.1	149.5	658.6	776.5	005	7.
16	1600.	814.5	858.2	-43.7	725.2	005	0.
	1675.					SEC.	2475.000
17	1700.	822.3	1116.4	-294.2	665.3	005	0.
	1700.					SEC.	2500.000
	1775.					SEC.	2575.000
18	1800.	826.7	26.5	800.2	672.7	005	0.
	1850.					SEC.	2650.000
	1878.					SEC.	2678.000
	1898.					SEC.	2698.000
19	1900.	828.6	823.7	4.9	637.6	005	0.
20	2000.	829.3	774.4	54.9	608.5	005	0.
21	2100.	830.6	677.8	152.9	586.8	005	0.
22	2200.	831.9	581.1	250.8	571.5	005	0.
23	2300.	833.2	484.4	348.8	561.8	005	0.
24	2400.	834.5	387.7	446.8	557.0	005	0.
25	2500.	835.8	291.1	544.7	556.5	005	0.
26	2600.	837.1	194.4	642.7	559.8	005	0.
27	2700.	838.4	97.7	740.7	566.5	005	0.
	2748.					SEC.	3548.000
	2798.					SEC.	3598.000
28	2800.	840.1	2525.0	***	486.1	005	0.
	2833.					SEC.	3633.000
29	2900.	842.0	1281.6	-439.7	454.2	005	0.
	2908.					SEC.	3708.000
	2983.					SEC.	3783.000
30	3000.	844.6	332.7	512.0	456.1	005	0.
	3041.					SEC.	3841.000
	3091.					SEC.	3891.000
31	3100.	844.8	824.6	20.2	442.1	005	0.
32	3200.	845.4	775.0	70.4	430.5	005	0.
33	3300.	846.5	683.9	162.6	422.3	005	0.
34	3400.	847.6	592.9	254.7	417.4	005	0.
35	3500.	848.7	501.8	346.9	415.4	005	0.
36	3600.	849.8	410.8	439.0	416.1	005	0.
37	3700.	850.9	319.7	531.2	419.2	005	0.
38	3800.	852.0	228.6	623.3	424.5	005	0.
39	3900.	853.1	137.6	715.5	432.0	005	0.
	4000.					SEC.	4800.000
40	4000.	854.2	46.5	807.7	441.4	005	0.
	4050.					SEC.	4850.000
	4099.					SEC.	4899.000
41	4100.	860.8	820.3	40.5	431.6	005	0.
	4148.					SEC.	4948.000
42	4200.	861.2	413.9	447.2	432.0	005	0.
43	4300.	862.1	31.4	530.8	441.3	005	0.
44	4400.	863.4	62.4	601.0	449.4	005	0.
45	4500.	864.7	93.5	771.3	456.6	005	0.
46	4600.	866.0	124.8	741.5	462.8	005	0.
	4603.					SEC.	5400.000

THIS REACH CAN BE SUBDIVIDED BY INC NO. TO MEET FIA REQUIREMENTS
 INPUT 201 WHERE N IS THE NUMBER OF REACHES AND THEN INPUT THE END
 OF EACH REACH BY INC NO. FOR EXAMPLE 202 1 46
 A NEGATIVE INC NO. WILL SUPPRESS INTERMEDIATE INC OUTPUT.

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

EJ

MADE IN U.S.A.

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