

//RMAK2X JOB RTI.A25.P03078.KEZIAH.M=1.T=2.P=100.PRTY=0.D=RTIMG

***PROCLIB=RTI.MG.PROCLIB

// EXEC HEC2

XXG EXEC PGM=HEC2,R=500K	00000010
XXSTEPLIB DD DSN=RTI.A25.P03078.JCW.LIB,LOAD,DISP=SHR	00000020
XXFT03F001 DD SYSOUT=A	00000030
XXFT01F001 DD DDNAME=SYSIN	00000040
XXFT91F001 DD DSN=8I91,UNIT=DISK,DISP=(,DELETE),SPACE=(TRK,(20,20)),	00000050
XX DCB=(BUFNO=1,RECFM=FB,LRECL=133,BLKSIZE=6384)	00000060
XXFT92F001 DD DSN=8I92,UNIT=DISK,DISP=(,DELETE),SPACE=(TRK,(20,20)),	00000070
XX DCB=(BUFNO=1,RECFM=FB,LRECL=133,BLKSIZE=6384)	00000080
XXFT93F001 DD DSN=8I93,UNIT=DISK,DISP=(,DELETE),SPACE=(TRK,(20,20)),	00000090
XX DCB=(BUFNO=1,RECFM=FB,LRECL=133,BLKSIZE=6384)	00000100
XXFT94F001 DD DSN=8I94,UNIT=DISK,DISP=(,DELETE),SPACE=(TRK,(20,20)),	00000110
XX DCB=(BUFNO=1,RECFM=FB,LRECL=133,BLKSIZE=6384)	00000120
XXFT95F001 DD DSN=8I95,UNIT=DISK,DISP=(,DELETE),SPACE=(TRK,(20,20)),	00000130
XX DCB=(BUFNO=1,RECFM=VBS,LRECL=1000,BLKSIZE=6400)	00000140
XXFT96F001 DD DSN=8I96,UNIT=DISK,DISP=(,DELETE),SPACE=(TRK,(20,20)),	00000150
XX DCB=(BUFNO=1,RECFM=FB,LRECL=133,BLKSIZE=6384)	00000160

//SYSIN DD *

//

IEF236I ALLOC. FOR RMAK2X G

IEF237I 15B ALLOCATED TO STEPLIB
 IEF237I 562 ALLOCATED TO FT03F001
 IEF237I 503 ALLOCATED TO FT01F001
 IEF237I 15A ALLOCATED TO FT91F001
 IEF237I 15A ALLOCATED TO FT92F001
 IEF237I 15A ALLOCATED TO FT93F001
 IEF237I 15A ALLOCATED TO FT94F001
 IEF237I 15A ALLOCATED TO FT95F001
 IEF237I 15A ALLOCATED TO FT96F001

IEF142I - STEP WAS EXECUTED - COND CODE 0000

IEF285I RTI.A25.P03078.JCW.LIB,LOAD	KEPT
IEF285I VOL SER NOS= RTI444.	
IEF285I SYS77147.T181942.RV001.RMAK2X.I91	DELETED
IEF285I VOL SER NOS= SPARE7.	
IEF285I SYS77147.T181942.RV001.RMAK2X.I92	DELETED
IEF285I VOL SER NOS= SPARE7.	
IEF285I SYS77147.T181942.RV001.RMAK2X.I93	DELETED
IEF285I VOL SER NOS= SPARE7.	
IEF285I SYS77147.T181942.RV001.RMAK2X.I94	DELETED
IEF285I VOL SER NOS= SPARE7.	
IEF285I SYS77147.T181942.RV001.RMAK2X.I95	DELETED
IEF285I VOL SER NOS= SPARE7.	
IEF285I SYS77147.T181942.RV001.RMAK2X.I96	DELETED
IEF285I VOL SER NOS= SPARE7.	

G	CORE=500K	TIME---0:11.4	UR---440	RD/WR---0:00.0	RC-----0
G	USED=242K	CPU---0:02.4	DISK---420	REWNO---0:00.0	
G		I/O---0:09.0	TAPE-----0	FL SR---0:00.0	

RMAK2X TIME---0:11.4

MADE IN U.S.A.

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

C
 T1 ROCKWELL-ROWAN COUNTY BASIN H STREAM 2R UNNAMED STREAM
 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	FR
	-10.	2.	0.	0.	0.008000	0.0	0.0	0.	710.200	0.0

J2	NPROF	IPLT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNAM	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

MADE IN U. S. A.

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

T1 ROCKWELL-ROWAN COUNTY B/SIN H STREAM 2R UNNAMED STREAM
 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.	0.008000	0.0	0.0	0.	713.200	0.0
J2	NPROF	IPLOT	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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 HEC2 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

SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CHSEL	CRWS	VCH	SSTA	ENDST	AREA	DIFWSP
6400.000	6400.00	0.0	0.0	404.00	705.20	710.57	0.0	4.37	1391.69	1550.53	144.97	0.0
6400.000	6400.00	0.0	0.0	897.00	705.20	711.47	0.0	5.20	1364.67	1581.11	315.89	0.89
A 9575.000	3175.00	0.0	0.0	335.00	733.10	738.22	0.0	4.72	1194.04	1224.78	71.62	0.0
9575.000	3175.00	0.0	0.0	748.00	733.10	739.62	0.0	6.27	1155.03	1254.98	162.26	1.40
9600.000	25.00	0.0	0.0	335.00	733.60	738.06	0.0	8.28	1320.80	1342.91	53.25	0.0
* 9600.000	25.00	0.0	0.0	748.00	733.60	739.61	739.61	9.86	1289.11	1363.47	115.87	1.56
9650.000	50.00	741.90	737.10	335.00	733.60	742.63	0.0	1.08	1215.16	1426.42	566.55	0.0
9650.000	50.00	741.90	737.10	748.00	733.60	743.45	0.0	1.72	1207.64	1436.40	748.50	0.82
B 9675.000	25.00	0.0	0.0	335.00	734.10	742.62	0.0	1.32	1099.81	1300.23	463.04	0.0
9675.000	25.00	0.0	0.0	748.00	734.10	743.44	0.0	2.15	1091.63	1310.59	634.64	0.82
* C 10190.000	515.00	0.0	0.0	301.00	738.70	742.40	742.40	8.42	1172.31	1295.15	37.97	0.0
10190.000	515.00	0.0	0.0	675.00	738.70	744.09	744.09	8.73	1136.42	1198.56	110.47	1.69
* 10240.000	50.00	0.0	0.0	301.00	739.30	744.07	744.07	7.82	1392.60	1438.38	56.16	0.0
* 10240.000	50.00	0.0	0.0	675.00	739.30	744.95	744.95	9.55	1373.76	1440.89	106.13	0.89
10302.000	62.00	749.40	744.80	301.00	739.30	744.07	0.0	7.80	1392.53	1438.39	56.32	0.0
10302.000	62.00	749.40	744.80	675.00	739.30	750.61	0.0	0.72	1310.62	1578.61	1161.88	6.54
D 10352.000	50.00	0.0	0.0	301.00	739.90	744.74	0.0	5.04	1148.24	1197.76	79.46	0.0
10352.000	50.00	0.0	0.0	675.00	739.90	750.61	0.0	1.16	1072.21	1328.20	1025.07	5.88
10781.000	429.00	0.0	0.0	282.00	743.00	748.19	0.0	3.99	1140.54	1198.28	98.85	0.0
10781.000	429.00	0.0	0.0	637.00	743.00	750.72	0.0	3.09	1095.25	1265.86	356.26	2.53
11211.000	430.00	0.0	0.0	282.00	746.20	750.62	0.0	3.68	1252.30	1358.16	157.19	0.0
11211.000	430.00	0.0	0.0	637.00	746.20	751.89	0.0	4.14	1230.09	1382.45	320.61	1.27
E 11640.000	429.00	0.0	0.0	282.00	749.30	753.36	0.0	4.70	1258.54	1351.34	121.86	0.0
11640.000	429.00	0.0	0.0	637.00	749.30	754.37	0.0	5.68	1241.05	1370.47	232.62	1.00

SUMMARY OF ERRORS

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CAUTION SECNO= 9600.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 9600.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 9600.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=10190.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO=10190.000 PROFILE= 1 MINIMUM SPECIFIC ENERGY
CAUTION SECNO=10190.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO=10190.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=10190.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=10240.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO=10240.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=10240.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=10240.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO=10240.000 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		
		10'	2'	0.2'
6400.000	0.	710.6	711.5	0.0
9575.000	3175.	733.9	735.3	*****
9600.000	3200.	*****	*****	*****
9650.000	3250.	4.4	5.2	*****
9675.000	3275.	742.6	743.4	0.0
10190.000	3790.	407.4	409.1	398.6
10240.000	3840.	*****	*****	*****
10302.000	3902.	2.2	8.7	-4.8
10352.000	3952.	743.7	749.5	*****
10781.000	4381.	*****	*****	*****
11211.000	4811.	8.0	9.3	*****
11640.000	5240.	753.4	754.4	0.0

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

FHE FOR THE REACH = 200 WITH 0.00 OF THE REACH WITHIN 3.0 FEET
 ZONE FOR THE REACH = A30

CONTINUOUS FLOOD HAZARD FACTORS BY EVEN INCREMENTS

INC NO.	TOTAL LENGTH	AVG ELEVATION DATA			WTD. AVG.	FHE	PERCENT WITHIN
		10'	1'	DIFF.			
SEC. 6400.000							
1	100.	711.0	0.1	710.9	710.9	005	100.
2	200.	711.9	0.2	711.7	711.3	005	100.
3	300.	712.8	0.3	712.4	711.7	005	33.
4	400.	713.6	0.5	713.1	712.0	005	50.
5	500.	714.5	0.6	713.9	712.4	005	20.
6	600.	715.4	0.8	714.6	712.8	005	33.
7	700.	716.2	0.9	715.3	713.1	005	14.
8	800.	717.1	1.0	716.1	713.5	005	25.
9	900.	718.0	1.2	716.8	713.9	005	11.
10	1000.	718.8	1.3	717.5	714.2	005	20.
11	1100.	719.7	1.4	718.3	714.6	005	9.
12	1200.	720.6	1.6	719.0	715.0	005	17.
13	1300.	721.5	1.7	719.7	715.3	005	8.
14	1400.	722.3	1.9	720.5	715.7	005	14.
15	1500.	723.2	2.0	721.2	716.1	005	7.
16	1600.	724.1	2.1	721.9	716.4	005	13.
17	1700.	724.9	2.3	722.7	716.8	005	6.
18	1800.	725.8	2.4	723.4	717.2	005	11.
19	1900.	726.7	2.5	724.1	717.5	005	5.
20	2000.	727.6	2.7	724.9	717.9	005	10.

21	2100.	728.4	2.8	725.6	718.3	005	5.
22	2200.	729.3	3.0	726.3	718.6	005	9.
23	2300.	730.2	3.1	727.1	719.0	005	4.
24	2400.	731.0	3.2	727.8	719.4	005	8.
25	2500.	731.9	3.4	728.5	719.7	005	4.
26	2600.	732.8	3.5	729.3	720.1	005	8.
27	2700.	733.7	3.6	730.0	720.5	005	4.
28	2800.	734.5	3.8	730.7	720.8	005	7.
29	2900.	735.4	3.9	731.5	721.2	005	3.
30	3000.	736.3	4.1	732.2	721.6	005	7.
31	3100.	737.1	4.2	732.9	721.9	005	3.
	3175.				SEC.	9575.000	
32	3200.	737.8	4789.6	*****	572.8	005	0.
	3200.				SEC.	9600.000	
	3250.				SEC.	9650.000	
	3275.				SEC.	9675.000	
33	3300.	742.6	8.1	734.5	577.7	005	0.
34	3400.	742.6	48.0	693.9	561.1	005	0.
35	3500.	742.5	113.8	628.7	582.4	005	0.
36	3600.	742.5	178.9	563.6	581.9	005	0.
37	3700.	742.5	243.9	498.5	579.7	005	0.
	3790.				SEC.	10190.000	
38	3800.	742.6	406.5	336.1	573.2	005	0.
	3840.				SEC.	10240.000	
39	3900.	743.4	648.9	94.5	561.0	005	0.
	3902.				SEC.	10302.000	
	3952.				SEC.	10352.000	
40	4000.	744.9	542.3	202.7	552.0	005	0.
41	4100.	745.5	2211.0	*****	502.8	005	0.
42	4200.	746.3	4466.0	*****	402.3	005	0.
43	4300.	747.1	6720.9	*****	254.0	005	0.
	4381.				SEC.	10781.000	
44	4400.	747.9	8564.4	*****	70.6	005	0.
45	4500.	748.6	8241.7	*****	-97.5	200	0.
46	4600.	749.1	6164.4	*****	*****	200	0.
47	4700.	749.7	4087.1	*****	*****	200	0.
48	4800.	750.3	2009.8	*****	*****	200	0.
	4811.				SEC.	11211.000	
49	4900.	750.9	779.8	-29.0	*****	200	0.
50	5000.	751.5	502.0	249.5	*****	200	0.
51	5100.	752.1	528.9	423.2	*****	200	0.
52	5200.	752.8	155.8	597.0	*****	200	0.
	5240.				SEC.	11640.000	

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 2 52
A NEGATIVE INC NO. WILL SUPPRESS INTERMEDIATE INC OUTPUT.