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JULIAN TRIB.
FLOODWAY

PROGRAMMER=DHS

ACCOUNT=RTI.A25.P03078

JOB TURN-AROUND			JOB PARAMETERS		TIME USED INCLUDES		MISC. JOB VALUES		
	DATE	TIME	SPECIFIED	USED	NO.	EQUIVALENT			
ENTERED	12/08/77	9:58:49.6	2:00.0	0:18.6	CPU	0:04.2	LINES IN	109	
EXECUTED	12/08/77	9:59:00.3	200	23	UR EXCPS	1314	0:05.3	LINES OUT	1121
RETURNED	12/12/77	15:17:17.8	0	0	DISK EXCPS	457	0:09.1	MEMORY TIME	9305 K-SEC
JOB ENTERED ON	THURSDAY		0	0	TAPE READ-WRITE		0:00.0	PRIORITY	01
					TAPE FILE SEARCH		0:00.0	APPROX. COST	\$5.55

X1	4475.000	26.000	1393.000	1407.000	50.000	50.000	50.000	0.0	0.0	0.0
GR	744.900	1000.000	741.100	1100.000	739.300	1140.000	736.200	1195.000	730.200	1295.000
GR	727.300	1384.000	723.400	1390.000	722.800	1393.000	721.500	1394.000	720.900	1396.000
GR	720.600	1398.000	720.400	1400.000	720.600	1402.000	720.900	1404.000	721.500	1406.000
GR	722.800	1407.000	725.200	1411.000	727.300	1495.000	729.900	1577.000	731.300	1580.000
GR	731.700	1600.000	734.200	1700.000	736.400	1800.000	739.200	1900.000	743.800	2000.000
GR	746.200	2036.000	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	14.000	0.010	93.000	0.0	0.0	0.0

LIST OF DETAILED STUDY

R0ND JULIAN ROAD MXLCEL 728.9 RDELV 730.3

X1	4523.000	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	728.900	729.900	0.0	0.0	0.0	0.0	0.0
BT	20.000	1000.000	744.900	0.0	1100.000	741.100	0.0	1200.000	736.500	0.0
BT	1300.000	732.100	0.0	1393.000	730.300	722.800	1394.000	730.300	725.400	1396.000
BT	730.300	727.700	1398.000	730.300	728.600	1400.000	730.300	728.900	1402.000	730.300
BT	724.600	1404.000	730.300	727.700	1406.000	730.300	725.400	1407.000	730.300	722.800
BT	1500.000	729.000	0.0	1600.000	731.700	0.0	1700.000	734.200	0.0	1800.000
BT	736.400	0.0	1400.000	739.200	0.0	2000.000	743.800	0.0	2036.000	746.200
BT	0.0	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

X1	4573.000	15.000	1299.000	1311.000	50.000	50.000	50.000	0.0	0.100	0.0
GR	742.100	1000.000	736.500	1100.000	730.500	1200.000	727.600	1289.000	723.700	1295.000
GR	723.600	1299.000	720.700	1300.000	720.700	1305.000	720.700	1309.000	722.500	1311.000
GR	725.500	1316.000	727.300	1400.000	730.200	1482.000	737.100	1500.000	740.800	1600.000

X1	4598.000	0.0	0.0	0.0	25.000	25.000	25.000	0.0	0.100	0.0
BT	5.000	267.000	528.000	670.000	1027.000	670.000	670.000	0.0	0.0	0.0

X1	7270.000	21.000	2156.000	2171.000	2547.000	2547.000	2547.000	0.0	0.0	0.0
GR	763.500	1000.000	761.500	1100.000	759.100	1200.000	758.400	1300.000	759.300	1400.000
GR	760.800	1500.000	756.700	1600.000	753.800	1700.000	751.600	1800.000	750.600	1900.000
GR	748.400	2000.000	748.600	2100.000	746.700	2156.000	741.100	2164.000	741.500	2165.000
GR	742.300	2166.000	742.700	2171.000	742.800	2191.000	750.400	2203.000	752.300	2222.000
GR	756.600	2234.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

X1	7320.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.400	0.0
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X1	7370.000	21.000	1466.000	1477.000	50.000	50.000	50.000	0.0	0.0	0.0
GR	760.400	830.000	757.100	907.000	754.200	1007.000	752.000	1107.000	751.000	1207.000
GR	748.800	1307.000	749.000	1407.000	747.500	1463.000	745.000	1466.000	741.900	1466.000
GR	741.900	1477.000	743.100	1477.000	743.200	1498.000	750.800	1510.000	752.700	1529.000
GR	754.300	1534.000	753.900	1600.000	753.200	1700.000	752.500	1800.000	752.000	1900.000
GR	751.600	2000.000	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	11.000	0.010	77.000	0.0	0.0	0.0

R0ND I-25 MXLCEL 748.9 RDELV 754.7

X1	7630.000	0.0	0.0	0.0	260.000	260.000	260.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	748.900	751.600	0.0	0.0	0.0	0.0	0.0
BT	14.000	830.000	760.400	0.0	1000.000	758.600	0.0	1100.000	757.500	0.0
BT	200.000	756.600	0.0	1300.000	755.800	0.0	1400.000	755.100	0.0	1466.000
BT	754.700	748.900	1477.000	754.700	748.900	1500.000	754.500	0.0	1600.000	753.900
BT	0.0	1700.000	753.200	0.0	1800.000	752.500	0.0	1900.000	752.000	0.0
BT	2000.000	751.600	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

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

T1 ROWAN COUNTY BASIN F STREAM 4
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918
 T3 100 YEAR FLOODWAY

J1	ICHECK	IMR	MINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FG
	-10.	6.	0.	0.	0.0	0.0	0.0	0.	716.220	0.0
J2	NPROF	IPLT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	2.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

*PROF 2

CCHV= 0.100 CEHV= 0.300

*SECNO 1300.000

2800 NAT Q1= 273.72 WSEL= 715.22 ENC Q1= 273.72 WSEL= 716.22 RATIO= 0.0

NAT Q1= 548. RATIOS LOB,CH,ROB= 0.7054 0.2215 0.0731 WSEL= 716.22

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	GLOR	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3470 ENCROACHMENT STATIONS= 1526.0 1635.4 TYPE= 4 TARGET= 0.500

STA. NO. HAVE BEEN CHANGED TO AGREE WITH PROFILE

1300.00	8.12	716.22	0.0	715.22	716.76	0.54	0.0	0.0	713.10
1750.	887.	777.	86.	252.	98.	29.	0.	0.	713.20
0.0	3.51	7.96	2.96	0.055	0.035	0.055	0.0	708.10	1526.01
0.004196	1300.	1300.	1300.	0	0	0	0.0	109.39	1635.41

*SECNO 3600.000

2800 NAT Q1= 284.82 WSEL= 722.60 ENC Q1= 284.82 WSEL= 723.60 RATIO= 0.0

NAT Q1= 449. RATIOS LOB,CH,ROB= 0.4386 0.5614 0.0 WSEL= 723.60

3470 ENCROACHMENT STATIONS= 1375.4 1426.0 TYPE= 4 TARGET= 0.366

3500.00	7.34	723.64	0.0	722.60	724.20	0.56	7.43	0.01	719.40
1420.	140.	1272.	0.	52.	203.	0.	17.	4.	724.00
0.11	2.88	6.28	0.0	0.055	0.035	0.055	0.035	716.30	1375.43
0.002491	2300.	2300.	2300.	4	0	0	0.0	49.74	1425.16

*SECNO 4400.000

2800 NAT Q1= 144.75 WSEL= 726.81 ENC Q1= 144.75 WSEL= 727.80 RATIO= 0.0

NAT Q1= 239. RATIOS LOB,CH,ROB= 0.0794 0.5250 0.3756 WSEL= 727.80

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

T1 ROWAN COUNTY BASIN F STREAM 4
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918
 T3 100 YEAR FLOODWAY

J1	ICHECK	IND	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FG
	-10.	7.	0.	0.	0.0	0.0	0.0	0.	716,220	0.0
J2	NPROF	IPLT	PREVS	XSECV	XSECH	FN	ALLOC	IBW	CHNIM	ITRACE
	15.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

*PROF 3

CCHV= 0.100 CFHV= 0.300

*SECNO 1300,000

2800 NAT Q1= 273.72 WSEL= 715.22 ENC Q1= 273.72 WSEL= 715.92 RATIO= 0.0

NAT Q1=	453.	RATIOS	LOB	CH	POB=	0.6867	0.2475	0.0658	WSEL=	715.92
SECNO	DEPTH	CHSEL	CRWS	WSELK	EG	HV	HL	OLOSS	BANK	ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT	RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA	
SLOPE	XLOB	XLCH	XLOB	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	

3470 ENCROACHMENT STATIONS= 1508.1 1637.7 TYPE= 4 TARGET= 0.396

STA. NO. HAVE BEEN CHANGED TO AGREE WITH PROFILE

1300.00	8.12	716.22	0.0	715.22	716.60	0.38	0.0	0.0	713.10
1750.	979.	679.	92.	313.	86.	35.	0.	0.	713.20
0.0	3.13	6.96	2.63	0.055	0.0	0.055	0.0	708.10	1508.09
0.003136	1300.	1300.	1300.	0	0	0	0.0	129.66	1637.75

*SECNO 3600,000

2800 NAT Q1= 284.82 WSEL= 722.60 ENC Q1= 284.82 WSEL= 723.30 RATIO= 0.0

NAT Q1= 394. RATIOS,LOB,CH,POB= 0.4102 0.5898 0.0 WSEL= 723.30

3470 ENCROACHMENT STATIONS=	1364.1	1426.0	TYPE=	4	TARGET=	0.278
3600.00	6.77	723.06	0.0	722.60	723.63	0.56
1420.	246.	1174.	0.	81.	182.	0.
0.11	3.03	6.47	0.0	0.055	0.035	0.055
0.002908	2300.	2300.	2300.	4	0	0
						0.035
						0.0
						59.75
						1423.83

*SECNO 4400,000

2800 NAT Q1= 144.75 WSEL= 726.81 ENC Q1= 144.75 WSEL= 727.51 RATIO= 0.0

NAT Q1= 207. RATIOS,LOB,CH,POB= 0.0963 0.5678 0.3359 WSEL= 727.51

 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

100 YEAR FLOOD WATER SUR

SUMMARY PRINTOUT

	SECNO	XLCH	ELTRD	ELLC	Ø	ELMIN	CWSEL	CRWS	VCH	SSTA	ENDST	AREA	DIFWSP
A	1300.000	1300.00	0.0	0.0	1750.00	708.10	715.22	0.0	7.11	1292.48	1670.67	564.48	0.0
	1300.000	1300.00	0.0	0.0	1750.00	708.10	716.22	0.0	7.96	1526.01	1635.41	379.04	1.00
	1300.000	1300.00	0.0	0.0	1750.00	708.10	716.22	0.0	6.96	1508.09	1637.75	445.57	0.0
B	3600.000	2300.00	0.0	0.0	1420.00	716.30	722.60	0.0	5.73	1245.37	1422.75	391.79	0.0
	3600.000	2300.00	0.0	0.0	1420.00	716.30	723.64	0.0	6.28	1375.43	1425.16	254.04	1.04
	3600.000	2300.00	0.0	0.0	1420.00	716.30	723.06	0.0	6.47	1364.08	1423.83	262.74	-0.57
*C	4400.000	925.00	0.0	0.0	1070.00	720.10	726.81	726.81	9.46	1289.30	1402.99	204.45	0.0
	4400.000	925.00	0.0	0.0	1070.00	720.10	726.35	726.35	13.37	1296.68	1316.42	94.89	-0.45
	4400.000	925.00	0.0	0.0	1070.00	720.10	726.40	726.40	12.65	1295.66	1323.10	108.66	0.05
	4425.000	25.00	0.0	0.0	1070.00	720.20	727.22	726.91	8.33	1285.53	1411.68	240.99	0.0
	4425.000	25.00	0.0	0.0	1070.00	720.20	728.01	0.0	9.55	1295.71	1322.81	149.11	0.78
	4425.000	25.00	0.0	0.0	1070.00	720.20	727.95	0.0	8.62	1294.88	1330.27	171.75	-0.06
	4475.000	50.00	0.0	0.0	1070.00	720.40	727.71	0.0	5.99	1371.47	1515.01	281.32	0.0
	4475.000	50.00	0.0	0.0	1070.00	720.40	728.86	0.0	6.27	1309.25	1427.43	207.77	1.15
	4475.000	50.00	0.0	0.0	1070.00	720.40	728.52	0.0	6.16	1388.77	1435.28	219.69	-0.34
	4523.000	48.00	729.90	728.90	1070.00	720.40	727.71	0.0	5.98	1371.43	1515.06	281.53	0.0
	4523.000	48.00	729.90	728.90	1070.00	720.40	728.71	0.0	3.86	1340.75	1543.33	454.60	1.00
	4523.000	48.00	729.90	728.90	1070.00	720.40	728.41	0.0	4.38	1349.95	1534.85	396.51	-0.30
	4573.000	50.00	0.0	0.0	1070.00	720.60	727.44	0.0	8.92	1289.08	1406.98	220.80	0.0
	4573.000	50.00	0.0	0.0	1070.00	720.60	728.42	0.0	9.93	1296.19	1319.50	137.38	0.97
	4573.000	50.00	0.0	0.0	1070.00	720.60	728.15	0.0	9.58	1295.28	1326.61	154.00	-0.26
D	4598.000	25.00	0.0	0.0	1070.00	720.70	727.65	0.0	8.57	1287.63	1409.75	232.50	0.0
	4598.000	25.00	0.0	0.0	1070.00	720.70	728.71	0.0	9.41	1295.90	1321.46	149.42	1.06
	4598.000	25.00	0.0	0.0	1070.00	720.70	728.42	0.0	9.09	1295.04	1328.78	165.98	-0.29
LIMIT OF DETAILED STUDY													
E*	7270.000	2547.00	0.0	0.0	670.00	741.10	745.15	745.15	10.19	2158.22	2194.70	84.28	0.0
*	7270.000	2547.00	0.0	0.0	670.00	741.10	746.37	746.37	11.36	2156.48	2176.40	68.38	1.22
*	7270.000	2547.00	0.0	0.0	670.00	741.10	745.92	745.92	11.19	2157.12	2180.33	72.15	-0.45
	7320.000	50.00	0.0	0.0	670.00	741.50	746.33	0.0	7.37	2157.10	2195.95	113.90	0.0
	7320.000	50.00	0.0	0.0	670.00	741.50	747.94	0.0	7.45	2155.17	2179.90	109.71	1.61
	7320.000	50.00	0.0	0.0	670.00	741.50	747.43	0.0	7.26	2156.00	2183.67	112.93	-0.51

SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRWS	VCH	SSTA	ENDST	AREA	DIFWSP
7370.000	50.00	0.0	0.0	670.00	741.90	746.81	0.0	6.18	1463.82	1503.71	143.34	0.0
7370.000	50.00	0.0	0.0	670.00	741.90	748.38	0.0	6.33	1464.90	1488.94	137.21	1.56
7370.000	50.00	0.0	0.0	670.00	741.90	747.84	0.0	6.31	1464.90	1492.10	139.01	-0.54
* 7630.000	260.00	751.60	748.90	670.00	741.90	746.96	0.0	5.94	1463.65	1503.93	149.09	0.0
7630.000	260.00	751.60	748.90	670.00	741.90	747.96	0.0	4.66	1445.89	1505.51	194.55	1.00
7630.000	260.00	751.60	748.90	670.00	741.90	747.66	0.0	4.99	1457.08	1505.04	178.42	-0.30
7680.000	50.00	0.0	0.0	670.00	741.50	747.16	0.0	5.61	2154.08	2197.26	147.36	0.0
7680.000	50.00	0.0	0.0	670.00	741.50	748.58	0.0	6.06	2151.37	2181.83	141.64	1.42
7680.000	50.00	0.0	0.0	670.00	741.50	748.05	0.0	6.03	2151.12	2185.26	142.16	-0.53
F 7730.000	50.00	0.0	0.0	670.00	741.10	747.42	0.0	4.75	2134.81	2198.29	182.23	0.0
7730.000	50.00	0.0	0.0	670.00	741.10	748.85	0.0	5.02	2147.50	2183.39	178.90	1.44
7730.000	50.00	0.0	0.0	670.00	741.10	748.32	0.0	5.02	2146.21	2186.55	179.07	-0.53
* G 9600.000	1870.00	0.0	0.0	579.00	755.50	761.46	761.46	8.04	1242.30	1333.89	128.89	0.0
9600.000	1870.00	0.0	0.0	579.00	755.50	761.30	761.30	11.86	1282.04	1295.37	52.29	-0.15
* 9600.000	1870.00	0.0	0.0	579.00	755.50	761.24	761.24	11.19	1279.33	1298.30	61.14	-0.06

SUMMARY OF ERRORS

CAUTION SECNO= 4400.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 4400.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 4400.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 4400.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 4400.000 PROFILE= 2 MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 4400.000 PROFILE= 3 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 4400.000 PROFILE= 3 MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 7270.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 7270.000 PROFILE= 1 MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 7270.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 7270.000 PROFILE= 2 MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 7270.000 PROFILE= 3 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 7270.000 PROFILE= 3 MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 7630.000 PROFILE= 1 HYDRAULIC JUMP D.S.

CAUTION SECNO= 9600.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 9600.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 9600.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL
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= 9600.000 PROFILE= 3 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 9600.000 PROFILE= 3 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 9600.000 PROFILE= 3 20 TRIALS ATTEMPTED TO BALANCE WSEL

FLOODWAY DATA, 100 YEAR FLOOD WATER SUR
 PROFILE NO. 2

STATION	FLOODWAY		MEAN VELOCITY	WATER SURFACE ELEVATION		
	WIDTH (FT)	SECTION AREA		WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE
A-1300.000	109.	379.	4.6	716.2	715.2	1.0
B-3600.000	50.	254.	5.6	723.6	722.6	1.0
C-4400.000	20.	95.	11.3	726.4	726.8	-0.4
4425.000	27.	149.	7.2	728.0	727.2	0.8
4475.000	35.	208.	5.1	728.9	727.7	1.2
4525.000	203.	455.	2.4	728.7	727.7	1.0
4573.000	23.	137.	7.8	728.4	727.4	1.0
4598.000	26.	149.	7.2	728.7	727.6	1.1
7270.000	20.	68.	9.8	746.3	745.1	1.2
7320.000	25.	110.	6.1	747.9	746.3	1.6
7370.000	24.	137.	4.9	748.4	746.8	1.6
7630.000	60.	195.	3.4	748.0	747.0	1.0
7680.000	30.	142.	4.7	748.6	747.2	1.4
7730.000	36.	179.	3.7	748.8	747.4	1.4
9600.000	13.	52.	11.1	761.4	761.5	-0.1

*Figured Data
Tables
from profile 3*

FLOODWAY DATA, 100 YEAR FLOOD WATER SUR
PROFILE NO. 3

STATION	FLOODWAY		MEAN VELOCITY	WATER SURFACE ELEVATION		DIFFERENCE
	WIDTH (FT)	SECTION AREA		WITH FLOODWAY	WITHOUT FLOODWAY	
A 1300.000	130.	446.	3.9	716.2	715.2	1.0
B 3600.000	60.	263.	5.4	723.1	722.6	0.5
C 4400.000	27.	109.	9.8	726.5	726.8	0.3
4425.000	35.	172.	6.2	727.9	727.2	0.7
4475.000	47.	220.	4.9	728.5	727.7	0.8
4523.000	105.	397.	2.7	728.4	727.7	0.7
4573.000	31.	154.	6.9	728.1	727.4	0.7
D 4598.000	34.	166.	6.4	728.4	727.6	0.8
7270.000	23.	72.	9.3	745.9	745.1	0.8
7320.000	28.	113.	5.9	747.4	746.3	1.1
7370.000	27.	139.	4.8	747.8	746.8	1.0
7630.000	40.	178.	3.8	747.7	747.0	0.7
7680.000	34.	142.	4.7	748.1	747.2	0.9
7730.000	40.	179.	3.7	748.3	747.4	0.9
9600.000	19.	61.	9.5	761.4	761.5	-0.1

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

EJ

 HEC2 VERSION UPDATED JAN 1975
 ERROR CORRECTIONS 01,02,03,04,05,06,07,08
 MODIFICATIONS 52,53,54,55,56,57,58

C
 I ROWAN COUNTY BASIN F STREAM 5
 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	FG
	-1.	2.	0.	0.	0.013000	0.0	0.0	0.	721.200	0.0
J2	NPROF	IPLT	PREVS	XSECV	XSECH	FN	ALLUC	IBW	CHNIM	ITRACE
	0.0	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
J3	1.000	34.000	3.000	4.000	27.000	28.000	26.000	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	283.000	561.000	712.000	1092.000	712.000	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	300.000	13.000	1162.000	1181.000	300.000	300.000	300.000	0.0	0.0	0.0
GR	736.400	1000.000	730.800	1039.000	721.200	1058.000	720.600	1100.000	720.000	1162.000
GR	716.200	1163.000	716.600	1167.000	716.900	1172.000	721.000	1181.000	720.500	1200.000
GR	722.200	1300.000	727.300	1400.000	735.700	1500.000	0.0	0.0	0.0	0.0
QT	5.000	239.000	480.000	613.000	952.000	613.000	0.0	0.0	0.0	0.0
X1	1030.000	14.000	1123.000	1136.000	730.000	730.000	730.000	0.0	-2.600	0.0
GR	744.900	1000.000	739.700	1034.000	731.700	1059.000	731.000	1100.000	728.600	1123.000
GR	727.300	1124.000	727.200	1126.000	727.300	1128.000	731.300	1136.000	734.600	1200.000
GR	736.900	1300.000	741.600	1400.000	745.500	1500.000	747.100	1545.000	0.0	0.0
X1	1130.000	0.0	0.0	0.0	100.000	100.000	100.000	0.0	0.900	0.0
NC	0.025	0.025	0.025	0.100	0.300	0.0	0.0	0.0	0.0	0.0
X1	1180.000	19.000	1500.000	1507.000	50.000	50.000	50.000	0.0	0.0	0.0
GR	765.600	1000.000	766.100	1100.000	766.600	1200.000	767.100	1300.000	743.600	1378.000
GR	738.400	1412.000	730.400	1437.000	729.700	1478.000	727.300	1500.000	725.900	1500.000
GR	725.900	1507.000	727.300	1507.000	730.000	1514.000	733.300	1578.000	735.600	1678.000
GR	740.300	1778.000	744.200	1878.000	745.800	1923.000	768.600	2000.000	0.0	0.0
SB	0.900	1.500	2.500	0.0	7.000	0.010	49.000	0.0	0.0	0.0
X1	1424.000	0.0	0.0	0.0	244.000	244.000	244.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	732.900	765.600	0.0	0.0	0.0	0.0	0.0
BT	12.000	1000.000	765.600	0.0	1100.000	766.100	0.0	1200.000	766.600	0.0
BT	1300.000	767.100	0.0	1400.000	767.600	0.0	1500.000	767.800	732.900	1507.000
BT	767.800	732.900	1600.000	768.100	0.0	1700.000	768.400	0.0	1800.000	768.600
BT	0.0	1900.000	768.600	0.0	2000.000	768.600	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	1474.000	14.000	1123.000	1136.000	50.000	50.000	50.000	0.0	-0.900	0.0
GR	744.900	1000.000	739.700	1034.000	731.700	1059.000	731.000	1100.000	728.600	1123.000
GR	727.300	1124.000	727.200	1126.000	727.300	1128.000	731.300	1136.000	734.600	1200.000
GR	736.900	1300.000	741.600	1400.000	745.500	1500.000	747.100	1545.000	0.0	0.0

SUMMARY PRINTOUT FOR MULTIPLE PROFILES

500 YEAR FLOOD WATER SUR

SECTION NUMBER	CHANNEL LENGTH	MIN EL OF ROADWAY	MAX EL OF LOW CHORD	MIN EL OF GROUND	DISCHARGE (CFS)	CWSEL	TQ	EG	TOPWID	STENCL	STENCR	VCH
300.00	300.00	300.00	0.0	716.20	283.00	719.66	24.81	720.54	15.96	0.0	0.0	7.55
300.00	300.00	300.00	0.0	716.20	561.00	721.23	76.25	721.69	185.01	0.0	0.0	6.30
300.00	300.00	300.00	0.0	716.20	712.00	721.43	92.62	721.93	197.06	0.0	0.0	6.83
300.00	300.00	300.00	0.0	716.20	1092.00	721.80	130.40	722.39	219.69	0.0	0.0	7.94
1030.00	730.00	730.00	0.0	724.60	239.00	728.06	24.89	728.63	31.50	0.0	0.0	6.69
1030.00	730.00	730.00	0.0	724.60	480.00	728.90	46.40	729.67	68.86	0.0	0.0	8.33
1030.00	730.00	730.00	0.0	724.60	613.00	729.27	62.45	730.03	88.62	0.0	0.0	8.56
1030.00	730.00	730.00	0.0	724.60	952.00	729.92	100.56	730.71	103.18	0.0	0.0	9.30
1130.00	100.00	100.00	0.0	725.50	239.00	728.99	25.45	729.53	31.84	0.0	0.0	6.58
1130.00	100.00	100.00	0.0	725.50	480.00	730.00	54.73	730.59	84.91	0.0	0.0	7.40
1130.00	100.00	100.00	0.0	725.50	613.00	730.27	67.36	730.93	90.79	0.0	0.0	8.09
1130.00	100.00	100.00	0.0	725.50	952.00	730.81	100.30	731.61	103.09	0.0	0.0	9.32
1180.00	50.00	50.00	0.0	725.90	239.00	729.32	40.04	729.80	30.77	0.0	0.0	6.44
1180.00	50.00	50.00	0.0	725.90	480.00	730.38	91.76	730.82	83.07	0.0	0.0	6.75
1180.00	50.00	50.00	0.0	725.90	613.00	730.76	126.27	731.14	92.83	0.0	0.0	6.61
1180.00	50.00	50.00	0.0	725.90	952.00	731.44	212.50	731.84	108.46	0.0	0.0	6.67
1424.00	244.00	765.60	732.90	725.90	239.00	729.32	39.99	729.80	30.75	0.0	0.0	6.44
1424.00	244.00	765.60	732.90	725.90	480.00	730.36	91.64	730.82	82.94	0.0	0.0	6.76
1424.00	244.00	765.60	732.90	725.90	613.00	730.76	126.31	731.16	92.84	0.0	0.0	6.61
1424.00	244.00	765.60	732.90	725.90	952.00	731.44	211.28	731.84	108.27	0.0	0.0	6.70
1474.00	50.00	0.0	0.0	726.30	239.00	729.53	20.77	730.29	28.78	0.0	0.0	7.70
1474.00	50.00	0.0	0.0	726.30	480.00	730.60	46.58	731.37	69.24	0.0	0.0	8.31
1474.00	50.00	0.0	0.0	726.30	613.00	730.97	62.35	731.73	88.58	0.0	0.0	8.57
1474.00	50.00	0.0	0.0	726.30	952.00	731.61	100.13	732.41	103.03	0.0	0.0	9.34
1574.00	100.00	0.0	0.0	727.20	239.00	730.82	28.03	731.28	33.36	0.0	0.0	6.10
1574.00	100.00	0.0	0.0	727.20	480.00	731.70	54.53	732.29	84.81	0.0	0.0	7.42
1574.00	100.00	0.0	0.0	727.20	613.00	731.97	67.41	732.63	90.82	0.0	0.0	8.09
1574.00	100.00	0.0	0.0	727.20	952.00	732.52	100.40	733.31	103.13	0.0	0.0	9.32
3000.00	1426.00	0.0	0.0	741.90	156.00	745.31	17.46	745.79	55.50	0.0	0.0	6.24
3000.00	1426.00	0.0	0.0	741.90	327.00	746.01	36.92	746.46	85.69	0.0	0.0	7.08
3000.00	1426.00	0.0	0.0	741.90	425.00	746.14	42.43	746.71	89.11	0.0	0.0	8.20
3000.00	1426.00	0.0	0.0	741.90	679.00	746.59	64.81	747.23	100.75	0.0	0.0	9.27
5800.00	2800.00	0.0	0.0	772.10	63.00	773.76	4.44	774.52	9.23	0.0	0.0	5.99
5800.00	2800.00	0.0	0.0	772.10	140.00	774.62	10.97	775.40	17.00	0.0	0.0	7.12
5800.00	2800.00	0.0	0.0	772.10	108.00	775.16	17.69	775.87	26.89	0.0	0.0	6.94
5800.00	2800.00	0.0	0.0	772.10	322.00	775.92	32.82	776.70	46.84	0.0	0.0	7.75
SECTION NUMBER	DISCHARGE CFS	CWSEL	CWSEL DIFF EACH Q	CWSEL DIFF EACH SECTION	CWSEL-WSELK	TOPWID	T.W. DIFF	LENGTH				
300.000	283.000	719.656	0.0	0.0	0.0	15.962	0.0	300.000				
300.000	561.000	721.229	1.573	0.0	0.0	185.007	-169.045	300.000				
300.000	712.000	721.420	0.199	0.0	0.0	197.063	-181.101	300.000				
300.000	1092.000	721.800	0.372	0.0	0.0	219.690	-203.723	300.000				

716.2
716.2

1030,000	239,000	728,063	0,0	8,407	0,0	31,495	0,0	730,000
1030,000	480,000	728,896	0,833	7,666	0,0	68,862	-37,366	730,000
1030,000	613,000	729,271	0,375	7,843	0,0	88,620	-57,124	730,000
1030,000	952,000	729,917	0,646	8,117	0,0	103,177	-71,682	730,000
1130,000	239,000	728,987	0,0	0,924	0,0	31,838	0,0	100,000
1130,000	480,000	730,005	1,018	1,109	0,0	84,910	-53,072	100,000
1130,000	613,000	730,266	0,261	0,996	0,0	90,794	-58,956	100,000
1130,000	952,000	730,813	0,547	0,896	0,0	103,093	-71,255	100,000
1180,000	239,000	729,317	0,0	0,330	0,0	30,773	0,0	50,000
1180,000	480,000	730,375	1,058	0,370	0,0	83,066	-52,293	50,000
1180,000	613,000	730,757	0,383	0,491	0,0	92,831	-62,058	50,000
1180,000	952,000	731,442	0,685	0,629	0,0	108,463	-77,690	50,000
1424,000	239,000	729,319	0,0	0,002	0,0	30,755	0,0	244,000
1424,000	480,000	730,376	1,057	0,001	0,0	82,944	-52,189	244,000
1424,000	613,000	730,759	0,383	0,001	0,0	92,840	-62,085	244,000
1424,000	952,000	731,444	0,685	0,001	0,0	108,274	-77,519	244,000
1474,000	239,000	729,527	0,0	0,208	0,0	28,779	0,0	50,000
1474,000	480,000	730,600	1,073	0,224	0,0	69,242	-40,464	50,000
1474,000	613,000	730,969	0,369	0,210	0,0	88,576	-59,797	50,000
1474,000	952,000	731,611	0,642	0,167	0,0	103,035	-74,256	50,000
1574,000	239,000	730,823	0,0	1,296	0,0	33,362	0,0	100,000
1574,000	480,000	731,701	0,878	1,101	0,0	84,812	-51,458	100,000
1574,000	613,000	731,968	0,267	0,999	0,0	90,816	-57,454	100,000
1574,000	952,000	732,516	0,548	0,906	0,0	103,125	-69,764	100,000
3000,000	158,000	745,314	0,0	14,491	0,0	55,503	0,0	1426,000
3000,000	327,000	746,007	0,693	14,306	0,0	85,694	-30,190	1426,000
3000,000	425,000	746,139	0,133	14,171	0,0	89,114	-33,611	1426,000
3000,000	679,000	746,588	0,449	14,072	0,0	100,748	-45,245	1426,000
5800,000	63,000	773,757	0,0	29,444	0,0	9,233	0,0	2800,000
5800,000	140,000	774,619	0,861	28,612	0,0	17,000	-7,767	2800,000
5800,000	188,000	775,164	0,545	29,024	0,0	26,891	-17,658	2800,000
5800,000	322,000	775,922	0,759	29,354	0,0	46,842	-37,609	2800,000

DATA FOR LAST CROSS SECTION
PROFILE TYPE ENC

PROFILE	TYPE ENC	TARGET	TOP WIDTH AREA-ACRES	TOP WIDTH AREA-DIFF
1	0,0	0,0	4,319	0,0
2	0,0	0,0	9,221	4,901
3	0,0	0,0	10,209	5,889
4	0,0	0,0	12,109	7,790