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 HEC2 VERSION UPDATED JAN 1975  
 ERROR CORRECTIONS 01,02,03,04,05,06,07,08  
 MODIFICATIONS 52,53,54,55,56,57,58  
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T1 ROWAN COUNTY BASIN A STREAM 4  
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6916  
 T3 50 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INO	NINV	TDIR	STRT	METRIC	HVIMS	0	WSEL	EQ
	-10.	3.	0.	0.	0.018000	0.0	0.0	0.	718.300	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

CCHV= 0.100 DEHV= 0.300

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOP	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
400.00	2.16	714.46	0.0	718.30	714.91	0.46	0.0	0.0	715.30
332.	0.	141.	191.	0.	19.	57.	0.	0.	713.50
0.0	0.0	7.36	3.35	0.055	0.035	0.055	0.0	712.30	1115.74
0.017756	400.	400.	400.	0	0	6	0.0	76.23	1191.98

7185 MIN SPECIFIC ENERGY

5720 ASSUMED CRITICAL DEPTH

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOP	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
2000.00	2.76	751.46	751.46	0.0	752.31	0.85	25.37	0.0	750.90
214.	3.	211.	0.	3.	28.	0.	2.	2.	751.20
0.05	1.34	7.46	0.80	0.055	0.035	0.055	0.035	748.70	1129.10
0.013461	1600.	1600.	1600.	4	11	1	0.0	24.06	1153.15

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T1 ROWAN COUNTY BASIN A STREAM 4  
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918  
 T3 100 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INO	MINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-10.	4.	0.	0.	0.018000	0.0	0.0	0.	720.000	0.0
J2	HPROF	IPLT	PRFVS	XSECV	XSECH	FN	ALLOC	IBW	CHN1M	ITRACE
	3.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CEHV=	0.100	CEHV=	0.300							
SECNO	DEPTH	CHSEL	CRINS	WSELK	EG	HV	HL	DLOSS	BANK ELEV	
Q	QLOB	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	
	400.00	2.33	714.63	0.0	720.30	715.13	0.50	0.0	715.30	
	424.	0.	166.	258.	0.	21.	68.	0.	713.50	
	0.0	0.0	7.78	3.78	0.055	0.035	0.055	0.0	712.30	1115.38
	0.017905	400.	400.	400.	0	0	7	0.0	77.00	1192.38

7185 MIN SPECIFIC ENERGY

3720 ASSUMED CRITICAL DEPTH

SECNO	DEPTH	CHSEL	CRINS	WSELK	EG	HV	HL	DLOSS	BANK ELEV	
Q	QLOB	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	
	2000.00	3.18	751.80	751.80	0.0	752.75	0.97	23.39	0.0	750.90
	277.	14.	262.	1.	8.	34.	1.	2.	2.	751.20
	0.05	1.77	7.69	1.37	0.055	0.035	0.055	0.035	748.70	1122.45
	0.011103	1600.	1600.	1600.	4	11	1	0.0	32.56	1155.00

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T1 ROWAN COUNTY BASIN A STREAM 4  
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918  
 T3 500 YEAR FLOOD WATER SURFACE PROFILE

J1 ICHECK TNG MINV YDIR STRT METRIC HVINS Q WSLF FQ  
 -19. 5. 0. 0. 0.018000 0.0 0.0 0. 721.300 0.0  
 J2 NPROF IPLOT PREVS 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

CCHV= 0.100 CEIV= 0.300

SECNO	DEPTH	CWSFL	CRWS	WSELK	EG	HV	HL	GLOSS	BANK ELEV
Q	ALOB	ACH	AROB	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
400.00	2.72	715.02	0.0	721.30	715.64	0.61	0.0	0.0	715.30
662.	0.	227.	435.	0.	26.	94.	0.	0.	713.50
0.0	0.0	8.69	4.64	0.055	0.035	0.055	0.0	712.30	1114.57
0.017934	400.	400.	400.	0	0	7	0.0	70.72	1195.29

7185 AID SPECIFIC ENERGY

3720 ASSUMED CRITICAL DEPTH

SECNO	DEPTH	CWSFL	CRWS	WSELK	EG	HV	HL	GLOSS	BANK ELEV
Q	ALOB	ACH	AROB	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
2009.00	3.96	752.66	752.66	0.0	753.59	0.93	21.23	0.0	750.90
443.	58.	376.	10.	24.	45.	5.	4.	2.	751.20
0.00	2.36	8.36	2.05	0.055	0.035	0.055	0.035	748.70	1110.16
0.005976	1600.	1600.	1600.	8	11	1	0.0	48.26	1158.42

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. GROUND	DISCHARGE (CFS)	CWSEL	TO	REG	TOPWID	STENCL	STENCR	VCH
400.00	400.00	0.0	0.0	712.30	168.00	714.14	14.66	714.44	74.86	0.0	0.0	5.68
400.00	400.00	0.0	0.0	712.30	332.00	714.46	24.92	714.91	76.23	0.0	0.0	7.36
400.00	400.00	0.0	0.0	712.30	424.00	714.63	31.69	715.13	77.00	0.0	0.0	7.78
400.00	400.00	0.0	0.0	712.30	662.00	715.02	49.43	715.64	78.72	0.0	0.0	8.60
2000.00	1600.00	0.0	0.0	748.70	106.00	750.57	7.91	751.24	12.31	0.0	0.0	6.53
2000.00	1600.00	0.0	0.0	748.70	214.00	751.46	18.44	752.31	24.06	0.0	0.0	7.46
2000.00	1600.00	0.0	0.0	748.70	277.00	751.88	26.29	752.75	32.56	0.0	0.0	7.69
2000.00	1600.00	0.0	0.0	748.70	443.00	752.66	46.50	753.59	48.26	0.0	0.0	8.36

SECTION NUMBER	DISCHARGE CFS	CWSEL	CWSEL DIFF EACH Q	CWSEL DIFF EACH SECTION	CWSEL-WSELK	TOPWID	T.W. DIFF	LENGTH
400.000	168.000	714.142	0.0	0.0	0.0	74.857	0.0	400.000
400.000	332.000	714.456	0.314	0.0	0.0	76.234	-1.377	400.000
400.000	424.000	714.631	0.175	0.0	0.0	77.000	-2.143	400.000
400.000	662.000	715.024	0.393	0.0	0.0	78.718	-3.861	400.000
2000.000	106.000	750.575	0.0	36.433	0.0	12.311	0.0	1600.000
2000.000	214.000	751.462	0.887	37.006	0.0	24.057	-11.746	1600.000
2000.000	277.000	751.881	0.419	37.250	0.0	32.556	-20.245	1600.000
2000.000	443.000	752.657	0.776	37.634	0.0	48.258	-35.947	1600.000

DATA FOR LAST CROSS SECTION

PROFILE	TYPE ENC	TARGET	TOP WIDTH AREA-ACRES	TOP WIDTH AREA-DIFF
1	0.0	0.0	1.601	0.0
2	0.0	0.0	1.842	0.241
3	0.0	0.0	2.012	0.411
4	0.0	0.0	2.332	0.731

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