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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 KANNAPOLIS-ROWAN CO. STRM 2K  
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918  
 T3 50 YEAR FLOOD WATER SURFACE PROFILE

J1 ICHECK INQ NINV IDIR STRT METRIC HVINS Q WSEL FQ  
 -10. 3. 0. 0. 0.013000 0.0 0.0 0. 702.900 0.0  
 J2 NPROF IPLOT 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 CEHV= 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	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
200.00	3.59	700.49	0.0	702.90	701.41	0.91	0.0	0.0	707.70
401.	0.	401.	0.	0.	52.	0.	0.	0.	706.60
0.0	0.0	7.67	0.0	0.055	0.035	0.055	0.0	696.90	1034.67
0.012892	200.	200.	200.	0	0	4	0.0	23.58	1058.26

700.00	5.59	705.49	0.0	0.0	706.32	0.83	4.91	0.01	705.10
397.	0.	396.	1.	0.	54.	1.	1.	0.	705.00
0.02	0.78	7.34	0.92	0.055	0.035	0.055	0.035	699.90	1098.39
0.007792	500.	500.	500.	4	0	1	0.0	20.22	1118.61

750.00	5.07	705.76	0.0	0.0	706.89	1.12	0.48	0.99	705.90
397.	0.	397.	0.	0.	47.	0.	1.	0.	705.80
0.02	0.0	8.50	0.0	0.055	0.035	0.055	0.035	700.70	1100.05
0.012358	50.	50.	50.	2	0	1	0.0	13.93	1113.98

CCHV= 0.100 CEHV= 0.300  
 3685 20 TRIALS USED WSEL,CWSEL

7185 MIN SPECIFIC ENERGY

3720 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	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

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T1 KANHAPOLIS-ROWAN CO. STRM 2K  
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918  
 T3 100 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INQ	MINV	IOIR	STRT	METRIC	HVINS	Q	WSEL/	FO
	-10.	4.	0.	0.	0.013000	0.0	0.0	0.	704.700	0.0
J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIN	ITRACE
	3.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CCHV= 0.100 CEHV= 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	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IOC	ICONT	CORAR	TOPWID	ENDST

200.00	3.98	700.88	0.0	704.90	701.93	1.06	0.0	0.0	707.70
508.	0.	508.	0.	0.	62.	0.	0.	0.	706.60
0.0	0.0	8.25	0.0	0.055	0.035	0.055	0.0	696.90	1034.42
0.012840	200.	200.	200.	0	0	5	0.0	24.70	1059.13
700.00	6.06	705.96	0.0	0.0	706.97	1.01	5.03	0.01	705.10
500.	2.	491.	6.	2.	61.	4.	1.	0.	705.00
0.02	1.36	8.12	1.48	0.055	0.035	0.055	0.035	699.90	1096.41
0.008060	500.	500.	500.	4	0	1	0.0	26.71	1123.12
750.00	5.50	706.20	705.83	0.0	707.59	1.38	0.51	0.11	705.90
500.	0.	499.	1.	0.	53.	1.	1.	0.	705.80
0.02	0.87	9.45	1.07	0.055	0.035	0.055	0.035	700.70	1098.71
0.013107	50.	50.	50.	4	11	1	0.0	19.16	1117.07

CCHV= 0.100 CEHV= 0.300

3685 20 TRIALS USED WSEL,CWSEL

7185 MIN SPECIFIC ENERGY

3720 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	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IOC	ICONT	CORAR	TOPWID	ENDST

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T1 KANNAPOLIS-ROWAN CO. STRM 2K  
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918  
 T3 500 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FO
	-10.	5.	0.	0.	0.013000	0.0	0.0	0.	705.900	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

CCHV= 0.100 CEHV= 0.300

SECNO	DEPTH	CWSFL	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	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

200.00	4.79	701.69	0.0	705.90	703.05	1.37	0.0	0.0	707.70
774.	0.	774.	0.	0.	83.	0.	0.	0.	706.60
0.0	0.0	9.38	0.0	0.055	0.035	0.055	0.0	696.90	1055.90
0.012891	200.	200.	200.	0	0	5	0.0	27.05	1060.94

700.00	7.02	706.92	706.53	0.0	708.21	1.29	5.15	0.01	705.10
759.	16.	701.	42.	7.	74.	18.	1.	0.	705.00
0.02	2.28	9.47	2.40	0.055	0.035	0.055	0.035	699.90	1092.39
0.008400	500.	500.	500.	6	11	1	0.0	39.85	1132.24

7185 MIN SPECIFIC ENERGY

3720 ASSUMED CRITICAL DEPTH

SECNO	DEPTH	CWSFL	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	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

750.00	6.63	707.33	707.33	0.0	708.98	1.65	0.49	0.0	705.90
759.	10.	723.	27.	4.	68.	11.	1.	0.	705.80
0.02	2.28	10.55	2.42	0.055	0.035	0.055	0.035	700.70	1094.05
0.011570	50.	50.	50.	3	5	1	0.0	34.44	1128.49

CCHV= 0.100 CEHV= 0.300

1 SUMMARY PRINTOUT FOR MULTIPLE PROFILES

4 500 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
200.00	200.00	0.0	0.0	696.90	203.00	699.66	18.39	700.26	21.17	0.0	0.0	6.22
200.00	200.00	0.0	0.0	696.90	401.00	700.49	35.32	701.40	23.58	0.0	0.0	7.67
200.00	200.00	0.0	0.0	696.90	508.00	700.88	44.83	701.93	24.70	0.0	0.0	8.25
200.00	200.00	0.0	0.0	696.90	774.00	701.69	68.17	703.05	27.05	0.0	0.0	9.38
700.00	500.00	0.0	0.0	699.90	209.00	704.26	25.73	704.75	13.20	0.0	0.0	5.64
700.00	500.00	0.0	0.0	699.90	397.00	705.48	45.24	706.32	20.22	0.0	0.0	7.34
700.00	500.00	0.0	0.0	699.90	500.00	705.96	55.69	706.97	26.71	0.0	0.0	8.12
700.00	500.00	0.0	0.0	699.90	759.00	706.92	82.81	708.21	39.85	0.0	0.0	9.47
750.00	50.00	0.0	0.0	700.70	209.00	704.52	19.10	705.27	12.65	0.0	0.0	6.94
750.00	50.00	0.0	0.0	700.70	397.00	705.76	35.71	706.89	13.93	0.0	0.0	8.50
750.00	50.00	0.0	0.0	700.70	500.00	706.20	43.67	707.59	19.16	0.0	0.0	9.45
750.00	50.00	0.0	0.0	700.70	759.00	707.32	70.56	708.98	34.44	0.0	0.0	10.55
800.00	50.00	0.0	0.0	703.70	209.00	708.11	29.25	708.84	23.33	0.0	0.0	7.69
800.00	50.00	0.0	0.0	703.70	397.00	708.96	54.75	709.82	34.85	0.0	0.0	8.92
800.00	50.00	0.0	0.0	703.70	500.00	709.31	69.55	710.21	39.65	0.0	0.0	9.29
800.00	50.00	0.0	0.0	703.70	759.00	710.04	109.79	710.99	49.66	0.0	0.0	9.79
868.00	68.00	718.90	708.70	703.70	209.00	710.72	160.11	710.76	58.99	0.0	0.0	1.99
868.00	68.00	718.90	708.70	703.70	397.00	718.51	2189.61	718.51	166.47	0.0	0.0	0.47
868.00	68.00	718.90	708.70	703.70	500.00	719.43	2673.70	719.43	187.95	0.0	0.0	0.51
868.00	68.00	718.90	708.70	703.70	759.00	720.08	3065.90	720.08	203.16	0.0	0.0	0.69
943.00	75.00	0.0	0.0	703.60	209.00	710.71	85.65	710.80	41.01	0.0	0.0	2.55
943.00	75.00	0.0	0.0	703.60	397.00	718.51	897.72	718.51	140.64	0.0	0.0	0.84
943.00	75.00	0.0	0.0	703.60	500.00	719.43	1090.87	719.43	158.87	0.0	0.0	0.91
943.00	75.00	0.0	0.0	703.60	759.00	720.07	1241.76	720.09	171.69	0.0	0.0	1.25
968.00	25.00	0.0	0.0	704.00	209.00	710.70	73.06	710.82	35.60	0.0	0.0	2.84
968.00	25.00	0.0	0.0	704.00	397.00	718.51	822.60	718.51	135.84	0.0	0.0	0.90
968.00	25.00	0.0	0.0	704.00	500.00	719.43	1004.08	719.43	150.96	0.0	0.0	0.97
968.00	25.00	0.0	0.0	704.00	759.00	720.07	1147.15	720.09	163.78	0.0	0.0	1.33
1500.00	532.00	0.0	0.0	710.70	209.00	712.60	15.79	713.36	19.35	0.0	0.0	7.00
1500.00	532.00	0.0	0.0	710.70	397.00	718.49	220.40	718.56	32.90	0.0	0.0	2.10
1500.00	532.00	0.0	0.0	710.70	483.00	719.41	273.08	719.49	35.00	0.0	0.0	2.25
1500.00	532.00	0.0	0.0	710.70	729.00	720.04	312.72	720.18	36.44	0.0	0.0	3.08

SECTION NUMBER	DISCHARGE CFS	CWSEL	CWSEL DIFF EACH Q	CWSEL DIFF EACH SECTION	CWSEL-WSELK	TOPWID	T.W. DIFF	LENGTH
200.000	209.000	699.657	0.0	0.0	0.0	21.169	0.0	200.000
200.000	401.000	700.490	0.833	0.0	0.0	23.584	-2.415	200.000
200.000	508.000	700.877	0.387	0.0	0.0	24.704	-3.535	200.000
200.000	774.000	701.686	0.808	0.0	0.0	27.047	-5.878	200.000
700.000	209.000	704.260	0.0	4.603	0.0	13.199	0.0	500.000
700.000	397.000	705.485	1.224	4.994	0.0	20.222	-7.023	500.000
700.000	500.000	705.960	0.475	5.083	0.0	26.711	-13.511	500.000
700.000	759.000	706.920	0.961	5.235	0.0	39.851	-26.651	500.000

