
 HEC2 VERSION UPDATED JAN 1978
 ERROR CORRECTIONS 01,02,03,04,05,06,07,08
 MODIFICATIONS 52,53,54,55,56,57,58

T1 KANNAPOLIS-ROWAN CO. STRM 5K
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-6 JOB NO. 6918
 T3 50 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FO
	-10.	3.	0.	0.	0.012000	0.0	0.0	0.	748.100	0.0
J2	NPROF	IPLT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIN	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

3720 ASSUMED CRITICAL DEPTH

SECNO	DEPTH	CWSEL	CRINS	WSELK	EG	HV	HL	ULOSS	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	LNOST
550.00	4.96	747.06	747.06	748.10	747.97	0.91	0.0	0.0	744.10
328.	78.	236.	14.	24.	27.	5.	0.	0.	744.90
0.0	3.31	6.77	2.69	0.055	0.035	0.055	0.0	742.10	1030.11
0.010203	550.	550.	550.	0	12	1	0.0	30.57	1060.67

7185 MIN SPECIFIC ENERGY

5720 ASSUMED CRITICAL DEPTH

SECNO	DEPTH	CWSEL	CRINS	WSELK	EG	HV	HL	ULOSS	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	LNOST
2450.00	2.99	776.99	776.99	0.0	777.00	0.81	20.53	0.0	770.30
212.	16.	159.	57.	6.	19.	12.	2.	1.	774.90
0.08	2.59	8.17	3.00	0.055	0.035	0.055	0.055	774.00	1031.47
0.011845	1900.	1900.	1900.	8	14	1	0.0	26.30	1057.77

 HEC2 VERSION UPDATED JAN 1975
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T1 KANNAPOLIS-ROWAN CO. STRM 5K
 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	WSLL	FW
	-10.	4.	0.	0.	0.012000	0.0	0.0	0.	750.100	0.0

J2	NPROF	IPLT	PRFVS	XSECV	XSECH	FN	ALLOC	IBW	CHNIM	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

3720 ASSUMED CRITICAL DEPTH

SECNO	DEPTH	CWSEL	CRHS	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
550.00	5.31	747.41	747.41	750.10	748.44	1.03	0.0	0.0	744.10
421.	120.	280.	21.	31.	29.	7.	0.	0.	744.90
0.0	3.93	9.63	3.11	0.055	0.035	0.055	0.0	742.10	1034.25
0.011154	550.	550.	550.	0	23	1	0.0	52.17	1066.42

7185 MIN SPECIFIC ENERGY

3720 ASSUMED CRITICAL DEPTH

SECNO	DEPTH	CWSEL	CRHS	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
2450.00	3.37	777.37	777.37	0.0	778.25	0.88	21.51	0.0	775.30
270.	28.	194.	57.	9.	22.	17.	3.	1.	774.90
0.07	2.92	8.79	3.31	0.055	0.035	0.055	0.035	774.00	1029.81
0.011575	1900.	1900.	1900.	0	14	1	0.0	30.07	1059.88

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T1 KANNAPOLIS-ROWAN CO. STRM 5K
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES. M-G JOB NO. 6918
 T3 500 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INQ	MINV	IDIR	STRT	METRIC	HVINS	D	WSEL	FG
	-10.	5.	0.	0.	0.012000	0.0	0.0	0.	751.100	0.0

J2	NPROF	IPLT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHN1M	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

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	XLORL	XLCH	XLGBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
550.00	6.18	748.28	748.28	751.10	749.42	1.15	0.0	0.0	744.10
660.	247.	367.	47.	50.	34.	12.	0.	0.	744.90
0.0	4.98	10.70	3.78	0.055	0.035	0.055	0.0	742.10	1032.09
0.011048	550.	550.	550.	0	18	1	0.0	36.22	1068.30

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	XLORL	XLCH	XLGBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
2450.00	4.12	778.12	778.12	0.0	779.15	1.03	21.15	0.0	775.30
449.	63.	273.	114.	18.	27.	29.	4.	2.	774.90
0.07	3.54	10.00	5.90	0.055	0.035	0.055	0.035	774.00	1026.47
0.011251	1900.	1900.	1900.	10	14	1	0.0	37.64	1064.11

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
550.00	550.00	0.0	0.0	742.10	164.00	745.84	14.95	746.70	12.87	0.0	0.0	7.71
550.00	550.00	0.0	0.0	742.10	328.00	747.06	32.47	747.97	30.57	0.0	0.0	8.77
550.00	550.00	0.0	0.0	742.10	421.00	747.41	39.86	748.44	32.17	0.0	0.0	9.63
550.00	550.00	0.0	0.0	742.10	660.00	748.28	62.79	749.42	36.22	0.0	0.0	10.70
2450.00	1900.00	0.0	0.0	774.00	103.00	776.13	8.85	776.77	17.59	0.0	0.0	6.81
2450.00	1900.00	0.0	0.0	774.00	212.00	776.99	19.48	777.60	26.30	0.0	0.0	8.17
2450.00	1900.00	0.0	0.0	774.00	278.00	777.37	25.84	778.25	30.07	0.0	0.0	8.79
2450.00	1900.00	0.0	0.0	774.00	449.00	778.12	42.33	779.15	37.64	0.0	0.0	10.00

SECTION NUMBER	DISCHARGE CFS	CWSEL	CWSEL DIFF EACH 0	CWSEL DIFF EACH SECTION	CWSEL-WSELK	TOPWID	T.W. DIFF	LENGTH
550.000	164.000	745.841	0.0	0.0	0.0	12.872	0.0	550.000
550.000	328.000	747.061	1.221	0.0	0.0	30.565	-17.693	550.000
550.000	421.000	747.407	0.346	0.0	0.0	32.175	-19.302	550.000
550.000	660.000	748.277	0.870	0.0	0.0	36.216	-23.343	550.000
2450.000	103.000	776.127	0.0	30.267	0.0	17.590	0.0	1900.000
2450.000	212.000	776.992	0.865	29.931	0.0	26.300	-8.710	1900.000
2450.000	278.000	777.367	0.374	29.959	0.0	30.068	-12.478	1900.000
2450.000	449.000	778.119	0.753	29.842	0.0	37.642	-20.052	1900.000

DATA FOR LAST CROSS SECTION

PROFILE	TYPE	ENC	TARGET	TOP WIDTH AREA-ACRES	TOP WIDTH AREA-DIFF
1	0.0	0.0	0.0	0.664	0.0
2	0.0	0.0	0.0	1.240	0.576
3	0.0	0.0	0.0	1.357	0.693
4	0.0	0.0	0.0	1.611	0.946