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

C
 1 KANNAPOLIS-ROWAN CO. STRM 4K
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918
 T3 10 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INQ	NINQ	IDIR	STRT	METRIC	HVINS	Q	WSEL	FR
	-1.	2.	0.	0.	0.017000	0.0	0.0	0.	732.400	0.0
J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLOC	IBW	CHNAM	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	236.000	453.000	571.000	867.000	571.000	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	450.000	13.000	1256.000	1268.000	450.000	450.000	450.000	0.0	-2.000	0.0
GR	749.600	1000.000	745.700	1100.000	741.300	1200.000	734.200	1222.000	730.400	1256.000
GR	727.600	1260.000	727.400	1262.000	727.500	1264.000	729.600	1268.000	729.600	1300.000
GR	732.600	1400.000	744.500	1500.000	749.800	1600.000	0.0	0.0	0.0	0.0
X1	500.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.600	0.0
NC	0.025	0.025	0.025	0.100	0.300	0.0	0.0	0.0	0.0	0.0
X1	550.000	20.000	1252.500	1257.500	50.000	50.000	50.000	0.0	0.0	0.0
GR	749.600	1600.000	745.700	1100.000	745.300	1133.000	740.100	1159.000	737.300	1200.000
GR	737.000	1205.000	733.600	1215.000	729.800	1249.000	729.300	1252.500	727.800	1253.000
GR	727.000	1254.000	726.800	1255.000	727.000	1256.000	727.600	1257.000	729.300	1257.500
GR	732.000	1393.000	741.400	1472.000	743.600	1500.000	748.800	1600.000	753.100	1681.000
SB	0.900	1.500	2.500	0.0	5.000	0.010	19.600	0.0	0.0	0.0
X1	578.000	0.0	0.0	0.0	28.000	28.000	28.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	731.800	0.0	0.0	0.0	0.0	0.0	0.0
BT	16.000	1000.000	749.600	0.0	1100.000	745.700	0.0	1133.000	745.300	0.0
BT	1200.000	737.300	0.0	1252.500	734.800	729.300	1253.000	734.800	730.800	1254.000
BT	734.800	731.600	1255.000	734.800	731.800	1256.000	734.800	731.600	1257.000	734.800
BT	730.600	1257.500	734.600	729.300	1300.000	733.800	0.0	1400.000	735.900	0.0
BT	1500.000	743.600	0.0	1600.000	748.800	0.0	1681.000	753.100	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	600.000	13.000	1256.000	1268.000	30.000	30.000	30.000	0.0	0.0	0.0
GR	749.600	1000.000	745.700	1100.000	741.300	1200.000	734.200	1222.000	730.400	1256.000
GR	727.600	1260.000	727.400	1262.000	727.500	1264.000	729.600	1268.000	729.600	1300.000
GR	732.600	1400.000	744.500	1500.000	749.800	1600.000	0.0	0.0	0.0	0.0
X1	678.000	0.0	0.0	0.0	70.000	70.000	70.000	0.0	0.600	0.0
QT	5.000	74.000	159.000	212.000	354.000	212.000	0.0	0.0	0.0	0.0
X1	3650.000	12.000	1125.000	1135.000	2972.000	2972.000	2972.000	0.0	0.0	0.0

GR	864.300	1000.000	797.200	1078.000	790.600	1100.000	789.400	1114.000	787.100	1118.000
GR	786.600	1125.000	783.900	1131.000	785.100	1135.000	787.300	1139.000	792.800	1200.000
GR	797.500	1219.000	803.400	1268.000	0.0	0.0	0.0	0.0	0.0	0.0
EJ	0.0	0.0	0.0	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	GLOSS	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
450.00	3.00	728.40	728.40	732.40	728.86	0.46	0.0	0.0	728.40
236.	0.	160.	76.	0.	25.	36.	0.	0.	727.60
0.0	0.0	6.49	2.11	0.055	0.035	0.055	0.0	725.40	1256.00
0.010352	450.	450.	450.	0	12	1	0.0	70.57	1326.57

7185 MIN SPECIFIC ENERGY

3720 ASSUMED CRITICAL DEPTH

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	GLOSS	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
500.00	3.02	729.02	729.02	0.0	729.46	0.44	0.50	0.0	729.00
236.	0.	158.	78.	0.	25.	37.	0.	0.	728.20
0.00	0.03	6.36	2.00	0.055	0.035	0.055	0.034	726.00	1255.84
0.009817	50.	50.	50.	2	5	1	0.0	71.41	1327.25

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	GLOSS	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	3.71	730.51	730.51	0.0	730.91	0.40	0.35	0.0	729.30
236.	19.	104.	113.	6.	15.	37.	0.	0.	729.30
0.01	3.33	6.75	3.06	0.025	0.025	0.025	0.029	726.80	1242.62
0.005171	50.	50.	50.	30	11	1	0.0	75.75	1318.57

SPECIAL BRIDGE

5070 VARIABLE ELCHU OR ELCHD ON CARD SB NOT SPECIFIED

SB XK XKOR COFO RDLN BWC BWR BARE SS ELCHU ELCHD

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 MODIFICATIONS 52,53,54,55,56,57,58

T1 KANNAPOLIS-ROWAN CO, STRM 4K
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918
 T3 50 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	ING	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FR
	-10.	3.	0.	0.	0.017000	0.0	0.0	0.	733.400	0.0
J2	NPROF	IPL0T	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNAM	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	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	LNUST
450.00	3.57	728.97	728.97	733.40	729.49	0.52	0.0	0.0	728.40
453.	2.	238.	213.	1.	32.	75.	0.	0.	727.60
0.0	1.17	7.53	2.83	0.055	0.035	0.055	0.0	725.40	1250.86
0.010034	450.	450.	450.	0	13	1	0.0	94.95	1345.81

7185 MIN SPECIFIC ENERGY

3720 ASSUMED CRITICAL DEPTH

SECNO	DEPTH	CWSEL	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	LNUST
500.00	3.51	729.51	729.51	0.0	730.10	0.59	0.54	0.0	729.00
453.	1.	244.	207.	1.	31.	70.	0.	0.	728.20
0.00	1.16	7.94	2.95	0.055	0.035	0.055	0.034	726.00	1251.47
0.011552	50.	50.	50.	2	5	1	0.0	92.09	1343.55

CCHV= 0.100 CEHV= 0.300

3685 20 TRIALS USED WSEL,CWSEL

7185 MIN SPECIFIC ENERGY

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T1 KANNAPOLIS-ROWAN CO. STRM 4K
 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 @ WSEL FQ
 -10. 4. 0. 0. 0.017000 0.0 0.0 0. 735.400 0.0

J2 NPROF IPLOT PRFVS XSECV XSECH FN ALLDC 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	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XML	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
450.00	3.80	729.20	729.20	735.40	729.76	0.56	0.0	0.0	728.40
571.	4.	275.	291.	3.	34.	94.	0.	0.	727.60
0.0	1.48	8.03	3.11	0.055	0.035	0.055	0.0	725.40	1248.86
0.010243	450.	450.	450.	0	17	1	0.0	104.42	1355.28

7185 MIN SPECIFIC ENERGY

3720 ASSUMED CRITICAL DEPTH

SECNO	DEPTH	CWSEL	CRHS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XML	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
500.00	3.71	729.71	729.71	0.0	730.36	0.65	0.55	0.0	729.00
571.	3.	284.	284.	2.	33.	87.	3.	0.	728.20
0.00	1.49	8.54	3.27	0.055	0.035	0.055	0.034	726.00	1249.61
0.012039	50.	50.	50.	2	5	1	0.0	100.87	1350.48

CCHV= 0.100 CEHV= 0.300

3685 20 TRIALS USED WSEL,CWSEL

7185 MIN SPECIFIC ENERGY

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

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

J1	ICHECK	INC	NINV	IDIR	STAT	METRIC	HVINS	Q	WSEL	FQ
	-10.	5.	0.	0.	0.017000	0.0	0.0	0.	736.400	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

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	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
450.00	4.25	729.65	729.65	736.40	730.29	0.64	0.0	0.0	728.40
867.	14.	359.	494.	7.	40.	136.	0.	0.	727.60
0.0	2.03	9.03	3.64	0.055	0.035	0.055	0.0	725.40	1244.80
0.010642	450.	450.	450.	0	17	1	0.0	123.57	1368.58

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
500.00	4.22	730.22	730.22	0.0	730.89	0.67	0.55	0.0	729.00
867.	14.	363.	491.	7.	39.	132.	0.	0.	728.20
0.00	2.05	9.22	3.71	0.055	0.035	0.055	0.034	726.00	1245.11
0.011257	50.	50.	50.	2	6	1	0.0	122.13	1367.24

CCHV= 0.100 CEHV= 0.300

3685 20 TRIALS USED WSEL, CWSEL

7185 MIN SPECIFIC ENERGY

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	TO	EG	TOPWID	STENCL	STENCR	VCH
450.00	450.00	0.0	0.0	725.40	236.00	728.40	23.20	728.86	70.97	0.0	0.0	6.49
450.00	450.00	0.0	0.0	725.40	453.00	728.97	45.22	729.49	94.95	0.0	0.0	7.53
450.00	450.00	0.0	0.0	725.40	571.00	729.20	56.42	729.76	104.42	0.0	0.0	8.03
450.00	450.00	0.0	0.0	725.40	867.00	729.65	84.04	730.29	123.57	0.0	0.0	9.03
500.00	50.00	0.0	0.0	726.00	236.00	729.02	23.82	729.46	71.41	0.0	0.0	6.36
500.00	50.00	0.0	0.0	726.00	453.00	729.51	42.15	730.10	92.09	0.0	0.0	7.94
500.00	50.00	0.0	0.0	726.00	571.00	729.71	52.04	730.36	100.87	0.0	0.0	8.54
500.00	50.00	0.0	0.0	726.00	867.00	730.22	81.71	730.89	122.13	0.0	0.0	9.22
550.00	50.00	0.0	0.0	726.80	236.00	730.51	32.82	730.91	75.75	0.0	0.0	6.75
550.00	50.00	0.0	0.0	726.80	453.00	730.91	56.89	731.41	99.28	0.0	0.0	8.11
550.00	50.00	0.0	0.0	726.80	571.00	731.07	69.77	731.62	108.89	0.0	0.0	8.59
550.00	50.00	0.0	0.0	726.80	867.00	731.47	109.83	732.03	132.48	0.0	0.0	8.88
578.00	28.00	733.80	731.60	726.80	236.00	730.51	32.90	730.91	75.85	0.0	0.0	6.74
578.00	28.00	733.80	731.30	726.80	453.00	730.91	57.09	731.41	99.44	0.0	0.0	8.08
578.00	28.00	733.80	731.80	726.80	571.00	731.08	70.02	731.62	109.07	0.0	0.0	8.56
578.00	28.00	733.80	731.80	726.80	867.00	735.99	1741.27	736.00	218.68	0.0	0.0	0.92
608.00	30.00	0.0	0.0	727.40	236.00	730.89	41.19	731.05	91.17	0.0	0.0	4.21
608.00	30.00	0.0	0.0	727.40	453.00	731.31	62.30	731.60	109.92	0.0	0.0	5.91
608.00	30.00	0.0	0.0	727.40	571.00	731.46	71.21	731.83	115.26	0.0	0.0	6.74
608.00	30.00	0.0	0.0	727.40	867.00	735.99	812.20	736.01	212.06	0.0	0.0	1.63
678.00	70.00	0.0	0.0	728.00	236.00	731.08	25.99	731.46	74.31	0.0	0.0	5.95
678.00	70.00	0.0	0.0	728.00	453.00	731.66	49.60	732.11	98.81	0.0	0.0	7.02
678.00	70.00	0.0	0.0	728.00	571.00	731.90	62.74	732.37	109.25	0.0	0.0	7.41
678.00	70.00	0.0	0.0	728.00	867.00	736.00	663.10	736.02	205.22	0.0	0.0	1.90
3650.00	2972.00	0.0	0.0	783.90	74.00	786.05	5.59	786.67	10.52	0.0	0.0	6.37
3650.00	2972.00	0.0	0.0	783.90	159.00	786.91	13.19	787.77	17.67	0.0	0.0	7.64
3650.00	2972.00	0.0	0.0	783.90	212.00	787.41	20.17	788.25	22.73	0.0	0.0	7.74
3650.00	2972.00	0.0	0.0	783.90	354.00	788.19	35.66	789.18	32.72	0.0	0.0	8.79
SECTION NUMBER	DISCHARGE CFS	CWSEL	CWSEL DIFF EACH 0	CWSEL DIFF EACH SECTION	CWSEL-WSELK	TOPWID	T.W. DIFF	LENGTH				
450.000	236.000	728.396	0.0	0.0	0.0	70.566	0.0	450.000				
450.000	453.000	728.574	0.578	0.0	0.0	94.947	-24.380	450.000				
450.000	571.000	729.197	0.224	0.0	0.0	104.423	-33.856	450.000				
450.000	867.000	729.650	0.453	0.0	0.0	123.571	-53.004	450.000				
500.000	236.000	729.017	0.0	0.621	0.0	71.412	0.0	50.000				
500.000	453.000	729.506	0.489	0.532	0.0	92.087	-20.676	50.000				
500.000	571.000	729.714	0.208	0.516	0.0	100.872	-29.460	50.000				
500.000	867.000	730.216	0.503	0.566	0.0	122.126	-50.714	50.000				
550.000	236.000	730.512	0.0	1.496	0.0	75.752	0.0	50.000				
550.000	453.000	730.910	0.398	1.405	0.0	99.281	-23.529	50.000				
550.000	571.000	731.073	0.163	1.359	0.0	108.894	-33.142	50.000				
550.000	867.000	731.472	0.399	1.256	0.0	132.480	-56.728	50.000				

