

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

T1 ROWAN CO. BASIN E STREAM 13  
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918  
 T3 10 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	ING	NINV	IDIR	STRT	METRIC	HVINS	G	WSEL	FO
	-1.	2.	0.	0.	0.012000	0.0	0.0	0.	774.500	0.0
J2	NPROF	IPLT	PRFVS	XSECV	XSECH	FN	ALLOC	IBW	CHN1M	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	287.000	559.000	706.000	1073.000	706.000	0.0	0.0	0.0	0.0
ET	3.000	0.0	0.0	0.0	0.0	-10.400	0.0	0.0	0.0	0.0
X1	750.000	12.000	1262.000	1274.000	750.000	750.000	750.000	0.0	0.0	0.0
GR	788.300	1000.000	776.800	1100.000	773.400	1119.000	770.800	1200.000	772.100	1262.000
GR	769.300	1265.000	769.500	1269.000	770.000	1272.000	772.200	1274.000	771.700	1300.000
GR	771.600	1376.000	778.600	1400.000	0.0	0.0	0.0	0.0	0.0	0.0
QT	5.000	192.000	385.000	494.000	774.000	494.000	0.0	0.0	0.0	0.0
X1	2650.000	11.000	1109.000	1123.000	1900.000	1900.000	1900.000	0.0	0.0	0.0
GR	812.900	1000.000	797.200	1065.000	796.800	1100.000	796.400	1109.000	793.700	1113.000
GR	793.500	1117.000	793.800	1121.000	797.100	1123.000	799.000	1200.000	804.500	1240.000
GR	812.800	1260.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
QT	5.000	83.000	179.000	238.000	397.000	238.000	0.0	0.0	0.0	0.0
X1	4250.000	9.000	1069.000	1092.000	1600.000	1600.000	1600.000	0.0	0.0	0.0
GR	835.100	1000.000	824.000	1050.000	820.900	1069.000	817.800	1084.000	817.500	1087.000
GR	817.700	1090.000	820.700	1092.000	822.500	1100.000	835.900	1189.000	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

MADE IN U.S.A.

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

T1 ROWAN CO. BASIN E STREAM 13  
 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	FD
	-10.	3.	0.	0.	0.012000	0.0	0.0	0.	775.300	0.0
J2	NPROF	IPL0T	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
750.00	3.02	772.32	0.0	775.30	772.65	0.33	0.0	0.0	772.10
555.	235.	190.	134.	90.	27.	63.	0.	0.	772.20
0.0	2.61	7.11	2.14	0.055	0.035	0.055	0.0	769.30	1152.53
0.011963	750.	750.	750.	0	0	6	0.0	227.82	1380.34

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
2650.00	4.09	797.59	797.59	0.0	798.26	0.67	18.17	0.0	796.40
385.	54.	327.	4.	30.	46.	5.	6.	7.	797.10
0.08	1.80	7.09	0.90	0.055	0.035	0.055	0.035	793.50	1063.39
0.007183	1900.	1900.	1900.	4	11	1	0.0	79.44	1142.82

3685 20 TRIALS USED WSEL,CWSEL

7185 MIN SPECIFIC ENERGY

3720 ASSUMED CRITICAL DEPTH

\*\*\*\*\*  
 HCC2 VERSION UPDATED JAN 1975  
 ERROR CORRECTIONS 01,02,03,04,05,06,07,08  
 MODIFICATIONS 52,53,54,55,56,57,58  
 \*\*\*\*\*

T1 ROWAN CO. BASIN E STREAM 13  
 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 WSEL FQ  
 -10. 4. 0. 0. 0.012000 0.0 0.0 0. 777.300 0.0

J2 NPROF IPLOF 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	LOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VRQB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
750.00	3.17	772.47	0.0	777.50	772.80	0.33	0.0	0.0	772.10
706.	303.	211.	191.	107.	28.	78.	0.	0.	772.20
0.0	2.84	7.41	2.45	0.055	0.035	0.055	0.0	769.30	1147.95
0.011957	750.	750.	750.	0	0	7	0.0	233.28	1381.22

7185 MIN SPECIFIC ENERGY

3720 ASSUMED CRITICAL DEPTH

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	LOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VRQB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
2650.00	4.43	797.93	797.93	0.0	798.58	0.65	17.65	0.0	796.40
494.	102.	374.	17.	46.	51.	14.	7.	7.	797.10
0.09	2.25	7.36	1.24	0.055	0.035	0.055	0.035	793.50	1061.98
0.006791	1900.	1900.	1900.	4	15	1	0.0	94.61	1156.59

3685 20 TRIALS USED WSEL,CWSEL

7185 MIN SPECIFIC ENERGY

3720 ASSUMED CRITICAL DEPTH

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

T1 ROWAN CO. BASIN E STREAM 13  
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-6 JOB NO. 6918  
 T3 500 YEAR FLOOD WATER SURFACE PROFILE

ICHECK	INO	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	F0	
-10.	5.	0.	0.	0.012000	0.0	0.0	0.	778.500	0.0	
J2	NPROF	IPL0T	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	CWSEL	CRIWS	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	3.48	772.78	0.0	778.30	773.14	0.36	0.0	0.0	772.10
1073.	474.	259.	340.	143.	32.	112.	0.	0.	772.20
0.0	3.30	8.05	3.05	0.055	0.035	0.055	0.0	769.30	1138.33
0.011967	750.	750.	750.	0	0	7	0.0	244.75	1383.08

7185 MIN SPECIFIC ENERGY

3720 ASSUMED CRITICAL DEPTH

SECNO	DEPTH	CWSEL	CRIWS	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
2650.00	5.00	798.50	798.50	0.0	799.20	0.70	17.85	0.0	796.40
774.	220.	484.	70.	73.	59.	39.	10.	8.	797.10
0.09	3.01	8.23	1.78	0.055	0.035	0.055	0.035	793.50	1059.64
0.007005	1900.	1900.	1900.	6	13	1	0.0	119.92	1179.55

3685 20 TRIALS USED WSEL,CWSEL

7185 MIN SPECIFIC ENERGY

3720 ASSUMED CRITICAL DEPTH

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
750.00	750.00	0.0	0.0	769.30	287.00	772.03	30.28	772.29	205.22	0.0	0.0	5.70
750.00	750.00	0.0	0.0	769.30	559.00	772.32	51.11	772.65	227.82	0.0	0.0	7.11
750.00	750.00	0.0	0.0	769.30	706.00	772.47	64.57	772.80	233.28	0.0	0.0	7.41
750.00	750.00	0.0	0.0	769.30	1073.00	772.78	98.09	773.14	244.75	0.0	0.0	8.05
2650.00	1900.00	0.0	0.0	793.50	192.00	795.99	14.41	796.96	12.72	0.0	0.0	7.91
2650.00	1900.00	0.0	0.0	793.50	385.00	797.59	45.43	798.26	79.44	0.0	0.0	7.09
2650.00	1900.00	0.0	0.0	793.50	494.00	797.93	59.95	798.58	94.61	0.0	0.0	7.36
2650.00	1900.00	0.0	0.0	793.50	774.00	798.49	92.47	799.20	119.92	0.0	0.0	8.23
4250.00	1600.00	0.0	0.0	817.50	83.00	819.46	8.66	819.77	15.19	0.0	0.0	4.45
4250.00	1600.00	0.0	0.0	817.50	179.00	819.90	13.58	820.64	17.65	0.0	0.0	6.88
4250.00	1600.00	0.0	0.0	817.50	238.00	820.24	18.16	821.08	19.51	0.0	0.0	7.38
4250.00	1600.00	0.0	0.0	817.50	397.00	820.97	31.53	822.03	24.67	0.0	0.0	8.27

SECTION NUMBER	DISCHARGE CFS	CWSEL	CWSEL DIFF EACH Q	CWSEL DIFF EACH SECTION	CWSEL-WSELK	TOPWID	T.W. DIFF	LENGTH
750.000	287.000	772.034	0.0	0.0	0.0	205.223	0.0	750.000
750.000	559.000	772.323	0.289	0.0	0.0	227.817	-22.595	750.000
750.000	706.000	772.470	0.147	0.0	0.0	233.277	-28.054	750.000
750.000	1073.000	772.779	0.309	0.0	0.0	244.752	-39.529	750.000
2650.000	192.000	795.990	0.0	23.956	0.0	12.721	0.0	1900.000
2650.000	385.000	797.589	1.599	25.266	0.0	79.435	-66.714	1900.000
2650.000	494.000	797.928	0.339	25.458	0.0	94.612	-81.890	1900.000
2650.000	774.000	798.495	0.567	25.716	0.0	119.917	-107.196	1900.000
4250.000	83.000	819.460	0.0	23.471	0.0	15.185	0.0	1600.000
4250.000	179.000	819.904	0.443	22.315	0.0	17.652	-2.467	1600.000
4250.000	238.000	820.240	0.337	22.313	0.0	19.507	-4.322	1600.000
4250.000	397.000	820.973	0.733	22.478	0.0	24.665	-9.480	1600.000

DATA FOR LAST CROSS SECTION

PROFILE	TYPE ENC	TARGET	TOP WIDTH AREA-ACRES	TOP WIDTH AREA-DIFF
1	0.0	0.0	5.266	0.0
2	0.0	0.0	8.484	3.218
3	0.0	0.0	9.247	3.981
4	0.0	0.0	10.608	5.343