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

J1	ICHECK	IRQ	WINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-1.	2.	0.	0.	0.021000	0.0	0.0	0.	857,500	0.0
J2	NPROF	IPLUT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	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
VC	0.055	0.055	0.035	0.100	0.300	0.0	0.0	0.0	0.0	0.0
JT	5.000	64.000	148.000	201.000	347.000	201.000	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	210.000	9.000	1160.000	1164.000	210.000	210.000	210.000	0.0	0.0	0.0
GR	853.300	1000.000	853.300	1100.000	853.600	1160.000	852.500	1162.000	852.500	1164.000
GR	853.300	1164.000	853.100	1200.000	856.800	1300.000	857.900	1400.000	0.0	0.0
JT	5.000	28.000	66.000	92.000	168.000	92.000	0.0	0.0	0.0	0.0
X1	1098.000	9.000	1151.000	1161.000	880.000	880.000	880.000	0.0	11.000	0.0
GR	382.100	1000.000	872.900	1100.000	872.000	1151.000	868.600	1154.000	868.600	1157.000
GR	872.200	1161.000	873.400	1200.000	878.400	1300.000	882.100	1359.000	0.0	0.0
X1	1140.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	1.600	0.0
NC	0.025	0.025	0.025	0.100	0.300	0.0	0.0	0.0	0.0	0.0
X1	1190.000	12.000	1366.500	1369.500	50.000	50.000	50.000	0.0	0.0	0.0
GR	902.700	1000.000	898.500	1100.000	895.100	1200.000	892.600	1253.000	887.000	1312.000
GR	886.100	1363.000	884.200	1366.500	883.100	1767.000	882.700	1368.000	883.100	1369.000
GR	884.200	1369.500	886.500	1373.000	887.500	1412.000	892.500	1512.000	896.200	1571.000
GR	897.800	1600.000	892.500	1700.000	902.700	1703.000	0.0	0.0	0.0	0.0
SR	0.900	1.500	2.500	0.0	3.000	0.010	7.100	0.0	0.0	0.0
X1	1280.000	0.0	0.0	0.0	90.000	90.000	90.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	885.700	0.0	0.0	0.0	0.0	0.0	0.0
JT	14.000	1000.000	902.700	0.0	1100.000	902.700	0.0	1200.000	895.100	0.0
BT	1300.000	890.500	0.0	1366.500	889.000	884.200	1367.000	889.000	885.300	1368.000
JT	889.000	885.700	1369.000	889.000	885.300	1369.500	889.000	884.200	1400.000	888.900
BT	0.0	1500.000	892.500	0.0	1600.000	897.800	0.0	1700.000	902.500	0.0
BT	1703.000	902.700	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VC	0.055	0.055	0.035	0.100	0.300	0.0	0.0	0.0	0.0	0.0
X1	1330.000	9.000	1151.000	1161.000	50.000	50.000	50.000	0.0	15.600	0.0
GR	382.100	1000.000	872.900	1100.000	872.000	1151.000	868.600	1154.000	868.600	1157.000
GR	872.200	1161.000	873.400	1200.000	878.400	1300.000	882.100	1359.000	0.0	0.0
X1	1380.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	1.600	0.0

EU 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

3265 DIVIDED FLOW

3280 CROSS SECTION 210.00 EXTENDED 0.20 FEET

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
210.00	1.00	853.50	0.0	857.50	853.58	0.08	0.0	0.0	853.60
64.	30.	13.	22.	24.	3.	13.	0.	0.	853.30
0.0	1.25	4.35	1.68	0.055	0.035	0.055	0.0	852.50	1000.00
0.020960	210.	210.	210.	0	0	9	0.0	190.30	1210.77

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
1090.00	1.21	880.81	880.81	0.0	881.28	0.47	18.99	0.0	883.00
28.	0.	28.	0.	0.	5.	0.	0.	2.	883.20
0.04	0.0	5.52	0.0	0.055	0.035	0.055	0.035	879.60	1152.94
0.023117	880.	880.	880.	4	11	1	0.0	5.41	1158.34

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	ITRI/L	IDC	ICONT	CORAR	TOPWID	ENDST
1140.00	1.21	882.41	882.41	0.0	882.88	0.47	1.15	0.0	884.60
28.	0.	28.	0.	0.	5.	0.	0.	2.	884.80
0.05	0.0	5.51	0.0	0.055	0.035	0.055	0.035	881.20	1152.93
0.023017	50.	50.	50.	3	5	1	0.0	5.41	1158.34

CCHV= 0.100 CEHV= 0.300

3685 20 TRIALS USED WSEL CWSEL

7185 MIN SPECIFIC ENERGY

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 MODIFICATIONS 52,53,54,55,56,57,58  
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T1 THOMASVILLE-DAVIDSON CO. STRM 8T  
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918  
 T3 50 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INO	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-10.	3.	0.	0.	0.021000	0.0	0.0	0.	858.500	0.0
J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLOC	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  
 3280 CROSS SECTION 210.00 EXTENDED 0.36 FEET

SECNO	DEPTH	WSEL	CRIWS	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
210.00	1.16	853.56	0.0	858.50	853.75	0.09	0.0	0.0	853.60
148.	36.	17.	45.	48.	4.	21.	0.	0.	853.30
0.0	1.80	4.78	2.17	0.055	0.035	0.055	0.0	852.50	1000.00
0.020644	210.	210.	210.	0	0	8	0.0	215.05	1215.05

7185 MIN SPECIFIC ENERGY

3720 ASSUMED CRITICAL DEPTH

SECNO	DEPTH	WSEL	CRIWS	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
1090.00	1.96	881.56	881.56	0.0	882.28	0.71	18.39	0.0	883.00
66.	0.	66.	0.	0.	10.	0.	1.	2.	883.20
0.04	0.0	6.76	0.0	0.055	0.035	0.055	0.035	879.60	1152.27
0.021467	680.	880.	880.	0	14	1	0.0	6.91	1159.18

7185 MIN SPECIFIC ENERGY

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 HEC2 VERSION UPDATED JAN 1975  
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 MODIFICATIONS 52,53,54,55,56,57,58  
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T1 THOMASVILLE-DAVIDSON CO. STRM BT  
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO, 6918  
 T3 100 YEAR FLOOD WATER SURFACE PROFILE

J1 ICHECK INO NINV IDIR STRY METRIC HVINS Q WSEL EQ  
 -10. 4. 0. 0. 0.021000 0.0 0.0 0. 860.500 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= 0.500  
 3260 CROSS SECTION 210.00 EXTENDED 0.43 FEET

SECNO	DEPTH	CWSEL	CRINS	WSELK	EG	HV	HL	GLOSS	BANK ELEV
0	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
210.00	1.23	853.73	0.0	860.50	553.83	0.10	0.0	0.0	853.60
201.	123.	19.	58.	60.	4.	24.	0.	0.	853.30
0.0	2.06	5.07	2.39	0.055	0.035	0.055	0.0	852.50	1000.00
0.020906	210.	210.	210.	0	0	9	0.0	217.01	1217.01

7185 MIN SPECIFIC ENERGY

3720 ASSUMED CRITICAL DEPTH

SECNO	DEPTH	CWSEL	CRINS	WSELK	EG	HV	HL	GLOSS	BANK ELEV
0	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
1090.00	2.36	851.96	881.96	0.0	882.78	0.02	18.31	0.0	883.00
92.	0.	92.	0.	0.	13.	0.	1.	2.	883.20
0.03	0.0	7.28	0.0	0.055	0.035	0.055	0.035	879.60	1151.92
0.020595	880.	880.	880.	3	14	1	0.0	7.71	1159.62

3685 20 TRIALS USED WSEL.CWSEL

7185 MIN SPECIFIC ENERGY

860.500 1000.000 888.500 1100.000 852.400 1200.000 851.000 1300.000 851.600 1346.000

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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 THOMASVILLE-DAVIDSON CO. STRM AT  
 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 EQ  
 -10. 5. 0. 0. 0.021000 0.0 0.0 0. 861.500 0.0

J2 NPROF IPLOT PRFVS XSECV XSECH FN ALLDC IDW 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  
 3280 CROSS SECTION 210.00 EXTENDED 0.60 FEET

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
210.30	1.40	853.90	0.0	861.50	854.04	0.14	0.0	0.0	853.60
347.	226.	25.	95.	87.	4.	34.	0.	0.	853.30
0.0	2.62	5.66	2.83	0.055	0.035	0.055	0.0	852.50	1000.00
0.020963	210.	210.	210.	0	0	9	0.0	221.54	1221.54

3665 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
1090.00	3.21	882.81	882.81	0.0	883.92	1.11	18.27	0.0	883.00
168.	0.	168.	0.	0.	20.	0.	1.	2.	883.20
0.03	0.0	6.45	0.0	0.055	0.035	0.055	0.035	879.60	1151.17
0.020345	880.	880.	880.	30	17	1	0.0	9.40	1160.57

3685 20 TRIALS USED WSEL,CWSEL

7185 MIN SPECIFIC ENERGY

880,000 1000,000 888,000 1100,000 892,400 1200,000 891,000 1300,000 891,600 1346,000

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	TQ	EG	TOPWID	STENCL	STENCR	VCH
210.00	210.00	0.0	0.0	852.50	64.00	853.50	4.42	853.58	190.30	0.0	0.0	4.35
210.00	210.00	0.0	0.0	852.50	148.00	853.66	10.30	853.75	215.05	0.0	0.0	4.78
210.00	210.00	0.0	0.0	852.50	201.00	853.73	13.90	853.83	217.01	0.0	0.0	5.07
210.00	210.00	0.0	0.0	852.50	347.00	853.90	23.97	854.04	221.54	0.0	0.0	5.66
1090.00	880.00	0.0	0.0	879.60	28.00	880.81	1.84	881.28	5.41	0.0	0.0	5.52
1090.00	880.00	0.0	0.0	879.60	66.00	881.56	4.50	882.28	6.91	0.0	0.0	6.78
1090.00	880.00	0.0	0.0	879.60	92.00	881.96	6.41	882.78	7.71	0.0	0.0	7.28
1090.00	880.00	0.0	0.0	879.60	168.00	882.81	11.78	883.92	9.40	0.0	0.0	8.45
1140.00	50.00	0.0	0.0	881.20	28.00	882.41	1.85	882.88	5.41	0.0	0.0	5.51
1140.00	50.00	0.0	0.0	881.20	66.00	883.16	4.51	883.88	6.92	0.0	0.0	6.78
1140.00	50.00	0.0	0.0	881.20	92.00	883.55	6.37	884.38	7.69	0.0	0.0	7.31
1140.00	50.00	0.0	0.0	881.20	168.00	884.43	11.98	885.51	9.45	0.0	0.0	8.34
1190.00	50.00	0.0	0.0	882.70	28.00	884.61	2.60	885.20	4.45	0.0	0.0	6.24
1190.00	50.00	0.0	0.0	882.70	66.00	885.60	7.44	886.29	7.90	0.0	0.0	7.23
1190.00	50.00	0.0	0.0	882.70	92.00	885.93	9.99	886.78	9.07	0.0	0.0	8.18
1190.00	50.00	0.0	0.0	882.70	168.00	886.92	29.45	887.23	76.27	0.0	0.0	6.20
1280.00	90.00	888.90	885.70	882.70	28.00	884.62	2.64	885.20	4.49	0.0	0.0	6.18
1280.00	90.00	888.90	885.70	882.70	66.00	887.60	79.66	887.61	108.60	0.0	0.0	1.01
1280.00	90.00	888.90	885.70	882.70	92.00	889.15	332.62	889.15	155.73	0.0	0.0	0.41
1280.00	90.00	888.90	885.70	882.70	168.00	889.71	474.61	889.72	172.97	0.0	0.0	0.56
1330.00	50.00	0.0	0.0	884.20	28.00	885.53	2.19	885.90	5.65	0.0	0.0	4.88
1330.00	50.00	0.0	0.0	884.20	66.00	887.51	12.54	887.66	9.60	0.0	0.0	3.17
1330.00	50.00	0.0	0.0	884.20	92.00	889.14	54.39	889.16	109.75	0.0	0.0	1.45
1330.00	50.00	0.0	0.0	884.20	168.00	889.70	90.50	889.72	127.07	0.0	0.0	1.75
1380.00	50.00	0.0	0.0	885.80	28.00	887.01	1.84	887.48	5.41	0.0	0.0	5.52
1380.00	50.00	0.0	0.0	885.80	66.00	887.76	4.50	888.48	6.91	0.0	0.0	6.78
1380.00	50.00	0.0	0.0	885.80	92.00	888.95	11.34	889.30	9.28	0.0	0.0	4.76
1380.00	50.00	0.0	0.0	885.80	168.00	889.00	11.72	890.12	9.38	0.0	0.0	8.48

SECTION NUMBER	DISCHARGE CFS	CWSEL	CWSEL DIFF EACH G	CWSEL DIFF EACH SECTION	CWSEL-WSELK	TOPWID	T.W. DIFF	LENGTH
210.000	64.000	853.497	0.0	0.0	0.0	190.302	0.0	210.000
210.000	148.000	853.656	0.159	0.0	0.0	215.047	-24.745	210.000
210.000	201.000	853.729	0.073	0.0	0.0	217.012	-26.710	210.000
210.000	347.000	853.896	0.168	0.0	0.0	221.541	-31.238	210.000
1090.000	28.000	880.806	0.0	27.309	0.0	5.406	0.0	880.000
1090.000	66.000	881.563	0.757	27.907	0.0	6.914	-1.509	880.000
1090.000	92.000	881.960	0.397	28.231	0.0	7.706	-2.301	880.000
1090.000	168.000	882.808	0.848	28.912	0.0	9.397	-3.991	880.000
1140.000	28.000	882.407	0.0	1.601	0.0	5.408	0.0	50.000
1140.000	66.000	883.164	0.756	1.601	0.0	6.916	-1.507	50.000
1140.000	92.000	883.553	0.389	1.593	0.0	7.692	-2.284	50.000
1140.000	168.000	884.434	0.881	1.626	0.0	9.449	-4.041	50.000

850,000 1000,000 858,000 1100,000 852,400 1200,000 851,000 1300,000 851,500 1346,000

1190,000	28,000	884,612	0,0	2,205	0,0	4,450	0,0	50,000
1190,000	66,000	885,596	0,984	2,433	0,0	7,902	-3,452	50,000
1190,000	92,000	885,930	0,334	2,378	0,0	9,074	-4,624	50,000
1190,000	168,000	886,916	0,985	2,481	0,0	76,271	-71,821	50,000
1280,000	28,000	884,624	0,0	0,012	0,0	4,491	0,0	90,000
1280,000	66,000	887,602	2,978	2,006	0,0	108,601	-104,109	90,000
1280,000	92,000	889,150	1,549	3,220	0,0	155,732	-151,241	90,000
1280,000	168,000	889,714	0,563	2,798	0,0	172,969	-168,477	90,000
1330,000	28,000	885,531	0,0	0,907	0,0	5,646	0,0	50,000
1330,000	66,000	887,508	1,977	-0,094	0,0	9,597	-3,951	50,000
1330,000	92,000	889,139	1,631	-0,012	0,0	109,750	-104,104	50,000
1330,000	168,000	889,700	0,562	-0,013	0,0	127,070	-121,424	50,000
1380,000	28,000	887,006	0,0	1,475	0,0	5,406	0,0	50,000
1380,000	66,000	887,762	0,756	0,254	0,0	6,914	-1,508	50,000
1380,000	92,000	888,946	1,184	-0,193	0,0	9,278	-3,872	50,000
1380,000	168,000	889,000	0,054	-0,701	0,0	9,381	-3,975	50,000

DATA FOR LAST CROSS SECTION

PROFILE	TYPE_ENC	TARGET	TOP WIDTH AREA-ACRES	TOP WIDTH AREA-DIFF
1	0,0	0,0	2,010	0,0
2	0,0	0,0	2,456	0,446
3	0,0	0,0	2,679	0,669
4	0,0	0,0	2,901	0,891



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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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MADE IN U.S.A.

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