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

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	F0	
	-1.	2.	0.	0.	0.001000	0.0	0.0	0.	805.300	0.0	
J2	NPROF	IPL0T	PRFVS	XSECV	XSECH	FN	ALLOC	IBV	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	
NC	0.055	0.055	0.035	0.100	0.300	0.0	0.0	0.0	0.0	0.0	
QT	5.000	281.000	310.000	632.000	920.000	632.000	0.0	0.0	0.0	0.0	
ST	5.000	0.0	0.0	0.0	0.0	-10.400	0.0	0.0	0.0	0.0	
X1	475.000	14.000	1252.000	1263.000	475.000	475.000	475.000	0.0	0.0	0.0	
GR	816.100	1000.000	807.000	1100.000	803.200	1200.000	804.300	1236.000	800.900	1247.000	
GR	801.600	1252.000	800.700	1254.000	800.300	1257.000	800.700	1261.000	801.400	1263.000	
GR	800.700	1300.000	801.100	1335.000	811.400	1400.000	816.100	1488.000	0.0	0.0	
QT	5.000	263.000	476.000	589.000	867.000	589.000	0.0	0.0	0.0	0.0	
X1	1525.000	11.000	1309.000	1313.000	1050.000	1050.000	1050.000	0.0	-0.100	0.0	
GR	833.100	1000.000	826.200	1100.000	819.800	1200.000	816.500	1300.000	810.300	1309.000	
GR	810.100	1311.000	810.300	1313.000	316.500	1324.000	824.700	1400.000	832.600	1500.000	
GR	833.100	1516.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
X1	1575.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.100	0.0	
NC	0.025	0.025	0.025	0.100	0.300	0.0	0.0	0.0	0.0	0.0	
X1	1625.000	17.000	1342.700	1347.300	50.000	50.000	50.000	0.0	0.0	0.0	
GR	833.100	1000.000	826.700	1100.000	821.500	1200.000	821.000	1220.000	820.000	1234.000	
GR	816.700	1334.000	812.600	1342.700	811.500	1343.000	810.500	1344.000	810.300	1345.000	
GR	810.500	1346.000	811.500	1347.000	812.600	1347.300	816.700	1358.000	822.700	1415.000	
GR	829.900	1500.000	833.100	1556.000	0.0	0.0	0.0	0.0	0.0	0.0	
SB	0.900	1.500	2.500	0.0	4.500	0.010	15.900	0.0	0.0	0.0	
X1	1663.000	0.0	0.0	0.0	38.000	38.000	38.000	0.0	0.0	0.0	
X2	0.0	0.0	1.000	814.800	0.0	0.0	0.0	0.0	0.0	0.0	
BT	14.000	1000.000	833.100	0.0	1100.000	826.700	0.0	1200.000	821.600	0.0	
BT	1300.000	818.300	0.0	1342.700	818.700	812.600	1343.000	818.700	813.600	1344.000	
BT	818.700	814.600	1345.000	818.700	814.800	1346.000	818.700	814.600	1347.000	810.700	
BT	813.600	1347.300	818.700	812.600	1400.000	821.600	0.0	1500.000	829.900	0.0	
BT	1556.000	833.100	0.0	0.0	0.0	0.0	0.0	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	
X1	1713.000	11.000	1309.000	1313.000	50.000	50.000	50.000	0.0	0.300	0.0	
GR	833.100	1000.000	826.200	1100.000	819.800	1200.000	816.500	1300.000	810.300	1309.000	
GR	810.100	1311.000	810.300	1313.000	816.500	1324.000	824.700	1400.000	832.600	1500.000	

GR	833.100	1516.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X1	1763.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.100	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

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	ENDST	

475.00	2.70	803.00	0.0	805.30	803.04	0.04	0.0	0.0	801.60	
281.	17.	57.	207.	16.	25.	157.	0.	0.	801.40	
0.0	1.06	2.27	1.32	0.055	0.035	0.055	0.0	800.30	1240.21	
0.000989	475.	475.	475.	0	0	4	0.0	106.78	1346.99	

3685 20 TRIALS USED WSEL,CWSEL

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	ENDST	

1525.00	4.01	814.01	814.01	0.0	815.32	1.31	2.37	0.0	810.20	
263.	40.	172.	51.	11.	16.	13.	3.	1.	810.20	
0.03	3.82	10.99	3.96	0.055	0.035	0.055	0.035	810.00	1303.47	
0.010966	1050.	1050.	1050.	30	14	1	0.0	16.28	1319.75	

3301 HV CHANGED MORE THAN HVINS

1575.00	4.94	815.04	0.0	0.0	815.71	0.67	0.34	0.06	810.30	
263.	46.	158.	59.	16.	19.	20.	3.	2.	810.30	
0.04	2.84	8.16	2.95	0.055	0.035	0.055	0.035	810.10	1302.12	
0.004541	50.	50.	50.	3	0	1	0.0	19.28	1321.41	

CCHV= 0.100 CEHV= 0.300

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	ENDST	

1625.00	4.86	815.16	815.16	0.0	816.20	1.05	0.26	0.0	812.60	
263.	36.	182.	45.	7.	20.	9.	3.	2.	812.60	
0.04	5.16	9.24	5.29	0.025	0.025	0.025	0.034	810.30	1337.28	
0.006264	50.	50.	50.	5	8	1	0.0	16.69	1353.97	

 HEC2 VERSION UPDATED JAN 1975
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 MODIFICATIONS 52,53,54,55,56,57,58

T1 THOMASVILLE-DAVIDSON CO. STRM 101
 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	PG
	-10.	3.	0.	0.	0.001000	0.0	0.0	0.	806.500	0.0
J2	NPROF	IPL0T	PRFVS	XSECV	XSECH	FN	ALLOO	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

3255 DIVIDED FLOW

SECNO	DEPTH	WSEL	CRWS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
Q	WLOB	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
475.00	3.52	803.82	0.0	806.30	803.87	0.05	0.0	0.0	801.60
510.	40.	95.	375.	38.	34.	228.	0.	0.	801.40
0.0	1.04	2.79	1.65	0.055	0.035	0.055	0.0	800.30	1183.70
0.000999	475.	475.	475.	0	0	5	0.0	151.18	1352.16

3605 20 TRIALS USED WSEL, WSEL

7185 MIN SPECIFIC ENERGY

3720 ASSUMED CRITICAL DEPTH

SECNO	DEPTH	WSEL	CRWS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
Q	WLOB	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
1525.00	5.38	815.38	815.30	0.0	817.04	1.66	2.35	0.0	810.20
476.	39.	275.	112.	19.	21.	24.	4.	2.	810.20
0.03	4.54	13.02	4.72	0.055	0.035	0.055	0.035	810.00	1301.48
0.010285	1050.	1050.	1050.	30	14	1	0.0	20.72	1322.19

3301 HV CHANGED MORE THAN HVINS

 HEC2 VERSION UPDATED JAN 1975
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T1 THOMASVILLE-DAVIDSON CO. STRM 101
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918
 T3 100 YEAR FLOOD WATER SURFACE PROFILE

J1 ICHECK INQ NINV IDIR STRY METRIC HVINS Q WSEL FQ
 -10. 4. 0. 0. 0.001000 0.0 0.0 0. 808.300 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

3265 DIVIDED FLOW

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	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
475.00	3.87	804.17	0.0	808.30	804.23	0.06	0.0	0.0	801.60
632.	60.	114.	459.	60.	38.	260.	0.	0.	801.40
0.0	1.00	3.00	1.77	0.055	0.035	0.055	0.0	800.30	1174.51
0.000997	475.	475.	475.	0	0	6	0.0	175.13	1354.37

3685 20 TRIALS USED WSEL,CWSEL

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	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
1525.00	5.87	815.87	815.87	0.0	817.78	1.90	2.37	0.0	810.20
589.	116.	327.	147.	23.	23.	29.	5.	2.	810.20
0.03	4.94	14.15	5.13	0.055	0.035	0.055	0.035	810.00	1300.76
0.010794	1050.	1050.	1050.	30	15	1	0.0	22.30	1323.07

3301 HV CHANGED MORE THAN HVINS

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

T1 THOMASVILLE-DAVIDSON CO, STRM 101
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 3918
 T3 500 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INC	MINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FG
	-10.	5.	0.	0.	0.001000	0.0	0.0	0.	809.300	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	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

475.00	4.54	804.84	0.0	809.30	804.92	0.07	0.0	0.0	801.60
928.	133.	153.	642.	117.	45.	322.	0.	0.	801.40
0.0	1.13	3.38	1.52	0.055	0.035	0.055	0.0	800.30	1156.80
0.000999	475.	475.	475.	0	0	6	0.0	201.81	1358.61

3685 20 TRIALS USED WSEL,CWSEL

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

1525.00	7.65	517.65	817.65	0.0	819.90	1.25	2.06	0.0	810.20
867.	229.	383.	255.	63.	30.	55.	8.	3.	810.20
0.04	3.64	12.67	4.64	0.055	0.035	0.055	0.035	810.00	1262.12
0.006049	1050.	1050.	1050.	30	14	1	0.0	73.46	1335.58

5301 H% CHANGED MORE THAN HVINS

1575.00	8.43	818.53	0.0	0.0	819.18	0.65	0.21	0.06	810.30
867.	279.	326.	262.	108.	33.	75.	8.	3.	810.30
0.04	2.57	9.79	3.47	0.055	0.035	0.055	0.035	810.10	1238.59

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
475.00	475.00	0.0	0.0	800.30	281.00	803.00	89.33	803.04	106.78	0.0	0.0	2.27
475.00	475.00	0.0	0.0	800.30	510.00	803.82	161.34	803.87	151.18	0.0	0.0	2.79
475.00	475.00	0.0	0.0	800.30	632.00	804.17	200.13	804.23	175.13	0.0	0.0	3.00
475.00	475.00	0.0	0.0	800.30	928.00	804.84	293.66	804.92	201.81	0.0	0.0	3.38
1525.00	1050.00	0.0	0.0	810.00	263.00	814.01	25.11	815.31	16.28	0.0	0.0	10.99
1525.00	1050.00	0.0	0.0	810.00	476.00	815.38	46.93	817.04	20.72	0.0	0.0	13.02
1525.00	1050.00	0.0	0.0	810.00	589.00	815.87	56.69	817.78	22.30	0.0	0.0	14.15
1525.00	1050.00	0.0	0.0	810.00	867.00	817.65	111.47	818.90	73.46	0.0	0.0	12.67
1575.00	50.00	0.0	0.0	810.10	263.00	815.04	39.03	815.71	19.28	0.0	0.0	8.16
1575.00	50.00	0.0	0.0	810.10	476.00	816.55	69.75	817.45	26.08	0.0	0.0	9.91
1575.00	50.00	0.0	0.0	810.10	589.00	817.44	98.02	818.18	60.81	0.0	0.0	9.51
1575.00	50.00	0.0	0.0	810.10	867.00	818.52	153.90	819.17	104.19	0.0	0.0	9.79
1625.00	50.00	0.0	0.0	810.30	263.00	815.15	33.23	816.20	16.69	0.0	0.0	9.24
1625.00	50.00	0.0	0.0	810.30	476.00	816.85	80.78	817.66	30.00	0.0	0.0	8.60
1625.00	50.00	0.0	0.0	810.30	589.00	817.91	143.81	818.33	72.45	0.0	0.0	6.67
1625.00	50.00	0.0	0.0	810.30	867.00	819.02	265.49	819.30	116.51	0.0	0.0	5.86
STA 16+10 WELLSKE DRIVE												
1663.00	38.00	818.30	814.80	810.30	263.00	819.01	264.08	819.04	116.12	0.0	0.0	1.79
1663.00	38.00	818.30	814.80	810.30	476.00	819.84	405.97	819.88	148.97	0.0	0.0	2.24
1663.00	38.00	818.30	814.80	810.30	589.00	820.15	479.23	820.20	159.09	0.0	0.0	2.41
1663.00	38.00	818.30	814.80	810.30	867.00	820.68	625.14	820.74	171.39	0.0	0.0	2.82
1713.00	50.00	0.0	0.0	810.40	263.00	819.00	165.82	819.05	111.20	0.0	0.0	2.80
1713.00	50.00	0.0	0.0	810.40	476.00	819.82	233.13	819.90	143.47	0.0	0.0	3.83
1713.00	50.00	0.0	0.0	810.40	589.00	820.13	265.62	820.23	155.44	0.0	0.0	4.25
1713.00	50.00	0.0	0.0	810.40	867.00	820.65	332.56	820.78	168.27	0.0	0.0	5.17
1763.00	50.00	0.0	0.0	810.50	263.00	819.01	159.58	819.07	107.60	0.0	0.0	2.88
1763.00	50.00	0.0	0.0	810.50	476.00	819.84	225.00	819.92	140.07	0.0	0.0	3.94
1763.00	50.00	0.0	0.0	810.50	589.00	820.15	256.32	820.26	152.63	0.0	0.0	4.38
1763.00	50.00	0.0	0.0	810.50	867.00	820.68	321.76	820.82	166.32	0.0	0.0	5.32

SECTION NUMBER	DISCHARGE CFS	CWSEL	CWSEL DIFF EACH Q	CWSEL DIFF EACH SECTION	CWSEL-WSELK	TOPWID	T.W. DIFF	LENGTH
475.000	281.000	802.999	0.0	0.0	0.0	106.781	0.0	475.000
475.000	510.000	803.819	0.820	0.0	0.0	151.184	-44.403	475.000
475.000	632.000	804.168	0.349	0.0	0.0	175.134	-68.353	475.000
475.000	928.000	804.841	0.673	0.0	0.0	201.815	-95.033	475.000
1525.000	263.000	814.007	0.0	11.008	0.0	16.282	0.0	1050.000
1525.000	476.000	815.381	1.374	11.563	0.0	20.716	-4.435	1050.000
1525.000	589.000	815.874	0.493	11.706	0.0	22.304	-6.023	1050.000
1525.000	867.000	817.649	1.776	12.808	0.0	73.460	-57.178	1050.000
1575.000	263.000	815.042	0.0	1.035	0.0	19.285	0.0	50.000
1575.000	476.000	816.554	1.513	1.173	0.0	26.076	-6.791	50.000
1575.000	589.000	817.438	0.884	1.564	0.0	60.808	-41.523	50.000
1575.000	867.000	818.525	1.087	0.876	0.0	104.190	-84.905	50.000

1	1625.000	263.000	815.155	0.0	0.113	0.0	16.694	0.0	50.000	
2	1625.000	476.000	816.850	1.695	0.296	0.0	30.004	-13.311	50.000	1
3	1625.000	589.000	817.913	1.063	0.475	0.0	72.448	-55.754	50.000	2
4	1625.000	867.000	819.024	1.111	0.499	0.0	116.507	-99.814	50.000	3
5	1663.000	263.000	819.014	0.0	3.859	0.0	116.116	0.0	38.000	4
6	1663.000	476.000	819.839	0.825	2.989	0.0	148.968	-32.852	38.000	5
7	1663.000	589.000	820.158	0.319	2.245	0.0	159.086	-42.971	38.000	6
8	1663.000	867.000	820.682	0.524	1.658	0.0	171.392	-55.276	38.000	7
9	1713.000	263.000	819.003	0.0	-0.011	0.0	111.205	0.0	50.000	8
10	1713.000	476.000	819.818	0.815	-0.021	0.0	143.471	-32.266	50.000	9
11	1713.000	589.000	820.133	0.315	-0.025	0.0	155.439	-44.235	50.000	10
12	1713.000	867.000	820.649	0.516	-0.034	0.0	168.266	-57.062	50.000	11
13	1763.000	263.000	819.013	0.0	0.010	0.0	107.600	0.0	50.000	12
14	1763.000	476.000	819.835	0.823	0.018	0.0	140.068	-32.468	50.000	13
15	1763.000	589.000	820.153	0.318	0.020	0.0	152.629	-45.029	50.000	14
16	1763.000	867.000	820.677	0.524	0.029	0.0	166.323	-58.723	50.000	15

DATA FOR LAST CROSS SECTION

PROFILE	TYPE ENC	TARGET	TCP WIDTH AREA-ACRES	TCP WIDTH AREA-DIFF	
1	0.0	0.0	1.838	0.0	16
2	0.0	0.0	2.539	0.701	17
3	0.0	0.0	2.962	1.124	18
4	0.0	0.0	4.059	2.221	19
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