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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 4T  
 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	G	WSEL	FO
	-1.	2.	0.	0.	0.029000	0.0	0.0	0.	829.300	0.0
J2	NPROF	IPLT	PREVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	YTRACE
	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	355.000	624.000	762.000	1094.000	762.000	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	275.000	11.000	1230.000	1238.000	275.000	275.000	275.000	0.0	0.0	0.0
GR	842.600	1000.000	836.200	1100.000	829.900	1200.000	826.800	1230.000	824.300	1233.000
GR	824.300	1236.000	827.200	1238.000	826.900	1300.000	833.500	1400.000	836.800	1500.000
GR	842.600	1595.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
QT	5.000	226.000	419.000	524.000	785.000	524.000	0.0	0.0	0.0	0.0
X1	1015.000	12.000	1111.000	1123.000	740.000	740.000	740.000	0.0	-1.700	0.0
GR	859.300	1000.000	850.700	1023.000	846.000	1100.000	844.600	1111.000	837.600	1113.000
GR	836.400	1115.000	837.600	1120.000	844.600	1123.000	845.000	1200.000	848.000	1300.000
GR	853.700	1400.000	859.300	1495.000	0.0	0.0	0.0	0.0	0.0	0.0
X1	1065.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	1.700	0.0
NC	0.025	0.025	0.025	0.100	0.300	0.0	0.0	0.0	0.0	0.0
X1	1115.000	18.000	1144.000	1145.000	50.000	50.000	50.000	0.0	0.0	0.0
GR	862.400	1000.000	861.700	1011.000	852.900	1033.000	848.000	1100.000	845.200	1141.000
GR	839.300	1143.000	839.100	1144.000	838.300	1144.500	838.100	1145.000	838.300	1145.500
GR	839.100	1146.000	839.300	1153.000	844.900	1153.000	845.000	1200.000	846.700	1300.000
GR	850.700	1400.000	857.400	1500.000	862.400	1557.000	0.0	0.0	0.0	0.0
SB	0.900	1.500	2.500	0.0	2.000	0.010	3.140	0.0	0.0	0.0
X1	1175.000	0.0	0.0	0.0	60.000	60.000	60.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	840.200	845.900	0.0	0.0	0.0	0.0	0.0
BT	14.000	1000.000	862.400	0.0	1011.000	861.700	0.0	1033.000	852.900	0.0
BT	1100.000	848.000	0.0	1144.000	845.900	839.100	1144.500	845.900	839.900	1145.000
BT	845.900	940.100	1145.500	845.900	839.900	1146.000	845.900	839.100	1200.000	845.000
BT	0.0	1300.000	846.700	0.0	1400.000	850.700	0.0	1500.000	857.400	0.0
BT	1557.000	862.400	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	1225.000	12.000	1111.000	1123.000	50.000	50.000	50.000	0.0	3.400	0.0
GR	859.300	1000.000	850.700	1023.000	846.000	1100.000	844.600	1111.000	837.600	1113.000
GR	836.400	1115.000	837.600	1120.000	844.600	1123.000	845.000	1200.000	848.000	1300.000

GR 853.700 1400.000 859.300 1495.000 0.0 0.0 0.0 0.0 0.0 0.0

X1 1275.000 0.0 0.0 0.0 50.000 50.000 50.000 0.0 1.700 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	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	
275.00	3.67	827.97	827.97	829.30	828.45	0.48	0.0	0.0		826.80
355.	13.	171.	170.	7.	23.	66.	0.	0.		827.20
0.0	1.99	7.56	2.60	0.055	0.035	0.055	0.0	824.30		1218.69
0.011224	275.	275.	275.	0	16	1	0.0	97.50		1316.19

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	
1015.00	3.71	838.41	836.41	0.0	839.78	1.37	10.39	0.0		842.90
226.	0.	226.	0.	0.	24.	0.	1.	1.		842.90
0.02	0.0	9.40	0.0	0.055	0.035	0.055	0.035	834.70		1112.28
0.021209	740.	740.	740.	4	5	1	0.0	8.79		1121.08

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	
1065.00	3.70	840.10	840.10	0.0	841.48	1.58	1.07	0.0		844.60
226.	0.	226.	0.	0.	24.	0.	1.	1.		844.60
0.02	0.0	9.44	0.0	0.055	0.035	0.055	0.035	836.40		1112.29
0.021422	50.	50.	50.	30	5	1	0.0	8.79		1121.07

CCHV= 0.100 CEHV= 0.300

3685 20 TRIALS USED WSEL,CWSEL

7185 MIN SPECIFIC ENERGY

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

J1	ICHECK	INC	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FG
	-10.	3.	3.	0.	0.029000	0.0	0.0	0.	850.500	0.0

J2	NPROF	IPLT	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

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
275.00	4.14	828.44	828.44	830.30	828.98	0.53	0.0	0.0	825.80
624.	34.	228.	362.	13.	27.	105.	0.	0.	827.20
0.0	2.57	8.61	3.46	0.055	0.035	0.055	0.0	824.30	1214.09
0.011855	275.	275.	275.	0	18	1	0.0	109.31	1323.40

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
1015.00	5.16	839.86	839.86	0.0	841.90	1.94	11.01	0.0	842.90
419.	0.	419.	0.	0.	37.	0.	2.	1.	842.90
0.02	0.0	11.18	0.0	0.055	0.035	0.055	0.035	834.70	1111.87
0.022074	740.	740.	740.	7	11	1	0.0	9.83	1121.70

3685 20 TRIALS USED WSEL,CWSEL

7185 MIN SPECIFIC ENERGY

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T1 THOMASVILLE-DAVIDSON CO. STRM 4T  
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918  
 T3 100 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INO	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-10.	4.	0.	0.	0.029000	0.0	0.0	0.	832.300	0.0
J2	NPROF	IPLOT	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 CCHV= 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	ENDST
275.00	4.26	828.56	828.56	832.30	829.21	0.65	0.0	0.0	826.80
762.	44.	283.	455.	15.	27.	115.	0.	0.	827.20
0.0	2.93	9.58	3.96	0.055	0.035	0.055	0.0	824.30	1212.93
0.014007	275.	275.	275.	0	11	1	0.0	112.27	1325.20

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
1015.00	5.84	840.54	840.54	0.0	842.71	2.17	12.34	0.0	842.90
524.	0.	524.	0.	0.	44.	0.	2.	1.	842.90
0.02	0.0	11.81	0.0	0.055	0.035	0.055	0.035	834.70	1111.67
0.022142	740.	740.	740.	3	11	1	0.0	10.31	1121.99

3685 20 TRIALS USED WSEL,CWSEL

7185 MIN SPECIFIC ENERGY

-2.552 50,000 50,000

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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 47  
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918  
 T3 500 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	ING	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-10.	5.	0.	0.	0.029000	0.0	0.0	0.	833.500	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	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
275.00	4.61	828.91	828.91	833.30	829.68	0.77	0.0	0.0	826.80
1094.	75.	326.	693.	22.	30.	146.	0.	0.	827.20
0.0	3.49	10.80	4.75	0.055	0.035	0.055	0.0	824.30	1209.59
0.015652	275.	275.	275.	0	11	1	0.0	120.85	1330.44

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
1015.00	7.26	841.96	841.96	0.0	844.64	2.68	13.44	0.0	842.90
785.	0.	785.	0.	0.	60.	0.	2.	1.	842.90
0.02	0.0	13.14	0.0	0.055	0.035	0.055	0.035	834.70	1111.27
0.022818	740.	740.	740.	3	14	1	0.0	11.33	1122.60

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	TQ	EG	TOPWID	STENCL	STENCH	VCH	
<del>275.00</del>	275.00	0.0	0.0	824.30	355.00	827.97	33.51	828.45	97.50	0.0	0.0	7.56	
<del>275.00</del>	275.00	0.0	0.0	824.30	624.00	828.44	57.31	828.98	109.31	0.0	0.0	8.61	
<del>275.00</del>	275.00	0.0	0.0	824.30	762.00	828.56	64.38	829.21	112.27	0.0	0.0	9.58	
<del>275.00</del>	275.00	0.0	0.0	824.30	1094.00	828.91	87.44	829.68	120.85	0.0	0.0	10.80	
945	1015.00	740.00	0.0	834.70	226.00	838.41	15.52	839.78	8.79	0.0	0.0	9.40	
<del>1015.00</del>	740.00	0.0	0.0	834.70	419.00	839.86	28.20	841.80	9.83	0.0	0.0	11.18	
<del>1015.00</del>	740.00	0.0	0.0	834.70	524.00	840.54	35.21	842.70	10.31	0.0	0.0	11.81	
<del>1015.00</del>	740.00	0.0	0.0	834.70	785.00	841.96	51.97	844.64	11.33	0.0	0.0	13.14	
945	1065.00	50.00	0.0	836.40	226.00	840.10	15.44	841.48	8.79	0.0	0.0	9.44	
<del>1065.00</del>	50.00	0.0	0.0	836.40	419.00	841.56	28.28	843.49	9.83	0.0	0.0	11.15	
<del>1065.00</del>	50.00	0.0	0.0	836.40	524.00	842.23	35.12	844.40	10.31	0.0	0.0	11.84	
<del>1065.00</del>	50.00	0.0	0.0	836.40	785.00	843.67	52.14	846.34	11.34	0.0	0.0	13.11	
1045	1115.00	50.00	0.0	838.10	226.00	842.02	25.60	843.35	9.30	0.0	0.0	9.43	
<del>1115.00</del>	50.00	0.0	0.0	838.10	419.00	843.43	49.96	845.29	10.61	0.0	0.0	11.18	
<del>1115.00</del>	50.00	0.0	0.0	838.10	524.00	844.07	63.52	846.16	11.17	0.0	0.0	11.92	
<del>1115.00</del>	50.00	0.0	0.0	838.10	785.00	846.52	227.57	846.74	167.01	0.0	0.0	6.34	
STA 10+75 RANDOLPH STREET													
1105	1175.00	60.00	845.90	840.10	838.10	226.00	846.21	182.82	846.24	144.87	0.0	0.0	2.22
<del>1175.00</del>	60.00	845.90	840.10	838.10	419.00	846.61	245.60	846.67	174.79	0.0	0.0	3.16	
<del>1175.00</del>	60.00	845.90	840.10	838.10	524.00	846.78	277.24	846.84	184.10	0.0	0.0	3.55	
<del>1175.00</del>	60.00	845.90	840.10	838.10	785.00	847.16	367.81	847.25	199.36	0.0	0.0	4.13	
1155	1225.00	50.00	0.0	839.80	226.00	846.01	39.36	846.35	10.58	0.0	0.0	4.68	
<del>1225.00</del>	50.00	0.0	0.0	839.80	419.00	845.80	37.00	847.08	10.43	0.0	0.0	9.10	
<del>1225.00</del>	50.00	0.0	0.0	839.80	524.00	845.63	35.11	847.80	10.31	0.0	0.0	11.84	
<del>1225.00</del>	50.00	0.0	0.0	839.80	785.00	849.00	99.48	849.84	216.69	0.0	0.0	8.02	
1205	1275.00	50.00	0.0	841.50	226.00	843.93	21.49	846.78	9.31	0.0	0.0	7.39	
<del>1275.00</del>	50.00	0.0	0.0	841.50	419.00	846.66	28.24	848.60	9.83	0.0	0.0	11.17	
<del>1275.00</del>	50.00	0.0	0.0	841.50	524.00	847.33	35.13	849.50	10.31	0.0	0.0	11.84	
<del>1275.00</del>	50.00	0.0	0.0	841.50	785.00	850.65	97.04	851.54	114.84	0.0	0.0	8.17	
SUMMARY													
SECTION NUMBER	DISCHARGE CFS	CWSEL	CWSEL DIFF EACH Q	CWSEL DIFF EACH SECTION	CWSEL-WSELK	TOPWID	T.W. DIFF	LENGTH					
275.000	355.000	827.968	0.0	0.0	0.0	97.500	0.0	275.000					
275.000	624.000	828.444	0.476	0.0	0.0	109.314	-11.814	275.000					
275.000	762.000	828.563	0.119	0.0	0.0	112.272	-14.772	275.000					
275.000	1094.000	828.908	0.345	0.0	0.0	120.849	-23.349	275.000					
1015.000	226.000	838.411	0.0	10.443	0.0	8.794	0.0	740.000					
1015.000	419.000	839.855	1.444	11.412	0.0	9.826	-1.032	740.000					
1015.000	524.000	840.537	0.682	11.974	0.0	10.313	-1.519	740.000					
1015.000	785.000	841.959	1.422	13.051	0.0	11.329	-2.535	740.000					
1065.000	226.000	840.101	0.0	1.690	0.0	8.787	0.0	50.000					
1065.000	419.000	841.564	1.463	1.708	0.0	9.832	-1.045	50.000					
1065.000	524.000	842.229	0.665	1.691	0.0	10.307	-1.520	50.000					
1065.000	785.000	843.673	1.444	1.714	0.0	11.339	-2.552	50.000					

	1115.000	226.000	842.019	0.0	1.918	0.0	7.379	0.0	50.000
	1115.000	419.000	843.426	1.407	1.862	0.0	10.509	-1.230	50.000
	1115.000	524.000	844.069	0.643	1.840	0.0	11.171	-1.793	50.000
	1115.000	785.000	846.519	2.451	2.846	0.0	167.012	-157.634	50.000
	1175.000	226.000	846.208	0.0	4.189	0.0	144.868	0.0	60.000
1	1175.000	419.000	846.615	0.407	3.189	0.0	174.791	-29.923	60.000
2	1175.000	524.000	846.778	0.163	2.709	0.0	184.096	-39.229	60.000
3	1175.000	785.000	847.163	0.385	0.644	0.0	199.356	-54.488	60.000
4									
5	1225.000	226.000	846.010	0.0	-0.198	0.0	10.581	0.0	50.000
6	1225.000	419.000	845.797	-0.214	-0.818	0.0	10.430	0.151	50.000
7	1225.000	524.000	845.628	-0.169	-1.150	0.0	10.307	0.275	50.000
8	1225.000	785.000	848.996	3.368	1.833	0.0	116.691	-106.110	50.000
9									
10	1275.000	226.000	845.931	0.0	-0.079	0.0	9.310	0.0	50.000
11	1275.000	419.000	846.659	0.728	0.863	0.0	9.829	-0.519	50.000
12	1275.000	524.000	847.329	0.670	1.701	0.0	10.307	-0.997	50.000
13	1275.000	785.000	850.650	3.321	1.655	0.0	114.841	-103.531	50.000

DATA FOR LAST CROSS SECTION

	PROFILE	TYPE	ENC	TARGET	TOP WIDTH AREA-ACRES	TOP WIDTH AREA-DIFF
19	1	0.0		0.0	1.130	0.0
20	2	0.0		0.0	1.281	0.150
21	3	0.0		0.0	1.323	0.193
22	4	0.0		0.0	1.805	0.674

