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

J1	ICHECK	ING	NINV	IDIR	STR1	METRIC	HVINS	Q	WSEL	FG
	-1.	2.	0.	0.	0.008000	0.0	0.0	0.	863.000	0.0
J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLOC	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
NC	0.055	0.055	0.035	0.100	0.300	0.0	0.0	0.0	0.0	0.0
QT	5.000	150.000	302.000	389.000	615.000	389.000	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	350.000	12.000	1326.000	1340.000	350.000	350.000	350.000	0.0	-5.800	0.0
GR	981.500	1000.000	875.300	1100.000	871.100	1200.000	866.700	1300.000	866.500	1326.000
GR	864.100	1328.000	863.800	1335.000	864.100	1338.000	866.500	1340.000	866.600	1400.000
GR	873.100	1500.000	881.500	1551.000	0.0	0.0	0.0	0.0	0.0	0.0
X1	400.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	1.400	0.0
NC	0.025	0.025	0.025	0.100	0.300	0.0	0.0	0.0	0.0	0.0
X1	450.000	24.000	1495.500	1504.500	50.000	50.000	50.000	0.0	0.0	0.0
GR	864.600	1000.000	881.900	1100.000	880.900	1131.000	878.800	1265.000	872.600	1265.000
GR	868.400	1365.000	864.000	1465.000	863.800	1491.000	862.600	1495.500	861.500	1496.000
GR	861.100	1497.000	861.500	1498.000	862.600	1498.500	862.600	1501.500	861.500	1502.000
GR	861.100	1503.000	861.500	1504.000	862.600	1504.500	863.800	1505.000	863.900	1565.000
GR	870.400	1665.000	871.900	1472.000	871.900	1700.000	871.600	1800.000	0.0	0.0
SB	0.900	1.500	2.500	0.0	0.000	0.010	14.100	0.0	0.0	0.0
X1	520.000	0.0	0.0	0.0	70.000	70.000	70.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	864.100	0.0	0.0	0.0	0.0	0.0	0.0
BT	18.000	1000.000	884.600	0.0	1100.000	881.900	0.0	1200.000	878.700	0.0
BT	1300.000	875.900	0.0	1400.000	873.800	0.0	1495.500	872.200	862.600	1496.000
BT	872.200	863.700	1497.000	872.200	864.100	1498.000	872.200	863.700	1498.500	872.200
BT	862.600	1501.500	872.200	862.600	1502.000	872.200	863.700	1503.000	872.200	864.100
BT	1504.000	872.200	863.700	1504.500	872.200	862.600	1600.000	871.900	0.0	1700.000
BT	871.900	0.0	1800.000	871.600	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	570.000	12.000	1326.000	1340.000	50.000	50.000	50.000	0.0	0.0	0.0
GR	881.500	1000.000	875.300	1100.000	871.100	1200.000	866.700	1300.000	866.500	1326.000
GR	864.100	1328.000	863.800	1335.000	864.100	1338.000	866.500	1340.000	866.600	1400.000
GR	873.100	1500.000	881.500	1551.000	0.0	0.0	0.0	0.0	0.0	0.0
X1	620.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	1.300	0.0
QT	5.000	121.000	236.000	303.000	475.000	303.000	0.0	0.0	0.0	0.0



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T1 THOMASVILLE-DAVIDSON CO. STRM 18T  
 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 EQ  
 -10. 3. 0. 0. 0.008000 0.0 0.0 0. 864.000 0.0

J2 NPROF IPLOT 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	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
350.00	3.31	861.31	861.31	864.00	861.74	0.43	0.0	0.0	860.70
302.	20.	232.	50.	15.	39.	36.	0.	0.	860.70
0.0	1.28	5.97	1.41	0.055	0.035	0.055	0.0	858.00	1290.64
0.006188	350.	350.	350.	0	11	1	0.0	117.24	1407.88

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
400.00	3.31	862.71	862.71	0.0	863.14	0.43	0.31	0.0	862.10
302.	20.	232.	51.	15.	39.	36.	0.	0.	862.10
0.00	1.28	5.96	1.41	0.055	0.035	0.055	0.034	859.40	1290.61
0.006167	50.	50.	50.	30	5	1	0.0	117.29	1407.90

CCHV= 0.100 CEHV= 0.300  
 3685 20 TRIALS USED WSEL,CWSEL

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T1 THOMASVILLE-DAVIDSON CO. STRM 18T  
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918  
 T3 100 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	ING	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FW
	-10.	4.	0.	0.	0.008000	0.0	0.0	0.	866.000	0.0
J2	NPROF	IPLT	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	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
350.00	3.51	861.51	861.51	866.00	861.96	0.45	0.0	0.0	860.70
389.	36.	267.	86.	23.	42.	49.	0.	0.	860.70
0.0	1.59	6.42	1.76	0.055	0.035	0.055	0.0	858.00	1286.24
0.006540	350.	350.	350.	0	12	1	0.0	124.62	1410.85

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
400.00	3.49	862.89	862.89	0.0	863.36	0.47	0.33	0.0	862.10
389.	35.	269.	85.	22.	41.	48.	0.	0.	862.10
0.00	1.60	6.49	1.76	0.055	0.035	0.055	0.034	859.40	1286.52
0.006727	50.	50.	50.	30	5	1	0.0	124.14	1410.66

CCHV= 0.100 CEHV= 0.300  
 3685 20 TRIALS USED WSEL,CWSEL

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 HEC2 VERSION UPDATED JAN 1975  
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T1 THOMASVILLE-DAVIDSON CO. STRM 13T  
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918  
 T3 500 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INA	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-10.	5.	0.	0.	0.008000	0.0	0.0	0.	867.000	0.0
J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLOC	IBW	CHNIM	ITRACE
	15.000	0.0	-1.450	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	CRISW	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	
350.00	3.87	861.87	861.87	867.00	862.39	0.52	0.0	0.0	860.70	
615.	34.	348.	184.	38.	47.	76.	0.	0.	860.70	
0.0	2.12	7.45	2.42	0.055	0.035	0.055	0.0	858.00	1277.78	
0.007559	350.	350.	350.	0	12	1	0.0	138.47	1416.45	

3685 20 TRIALS USED WSEL,CWSEL

7185 MIN SPECIFIC ENERGY

3720 ASSUMED CRITICAL DEPTH

SECNO	DEPTH	CWSEL	CRISW	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	
400.00	3.85	863.25	863.25	0.0	863.79	0.55	0.39	0.0	862.10	
615.	82.	352.	181.	37.	46.	74.	0.	0.	062.10	
0.00	2.20	7.59	2.44	0.055	0.035	0.055	0.034	859.40	1270.51	
0.007920	50.	50.	50.	30	5	1	0.0	137.58	1416.09	

CCHV= 0.100 CEHV= 0.300  
 3685 20 TRIALS USED WSEL,CWSEL

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	T0	E0	TOPWID	STENCL	STENCR	VCH		
A	295	350.00	350.00	0.0	0.0	858.00	150.00	860.48	16.79	860.95	13.64	0.0	0.0	5.49
		350.00	350.00	0.0	0.0	858.00	302.00	861.31	38.39	861.74	117.24	0.0	0.0	5.97
		350.00	350.00	0.0	0.0	858.00	389.00	861.50	48.10	861.96	124.62	0.0	0.0	6.42
		350.00	350.00	0.0	0.0	858.00	615.00	861.87	70.74	862.39	138.47	0.0	0.0	7.45
345	400.00	50.00	0.0	0.0	859.40	150.00	861.38	11.16	862.20	12.80	0.0	0.0	7.26	
	400.00	50.00	0.0	0.0	859.40	302.00	862.71	38.46	863.14	117.29	0.0	0.0	5.96	
	400.00	50.00	0.0	0.0	859.40	389.00	862.89	47.43	863.36	124.14	0.0	0.0	6.49	
	400.00	50.00	0.0	0.0	859.40	615.00	863.24	69.10	863.79	137.58	0.0	0.0	7.59	
395	450.00	50.00	0.0	0.0	861.10	150.00	864.13	25.12	864.41	106.70	0.0	0.0	4.97	
	450.00	50.00	0.0	0.0	861.10	302.00	864.45	46.96	864.75	118.71	0.0	0.0	5.85	
	450.00	50.00	0.0	0.0	861.10	389.00	864.57	57.36	864.91	123.12	0.0	0.0	6.35	
	450.00	50.00	0.0	0.0	861.10	615.00	864.76	77.48	865.26	130.48	0.0	0.0	7.79	
405	STA 4+30 TRINITY STREET 520.00	70.00	871.60	864.10	861.10	150.00	866.77	499.44	866.77	207.17	0.0	0.0	0.42	
	520.00	70.00	871.60	864.10	861.10	302.00	872.03	4108.16	872.03	521.40	0.0	0.0	0.17	
	520.00	70.00	871.60	864.10	861.10	389.00	872.21	4323.66	872.21	525.72	0.0	0.0	0.21	
	520.00	70.00	871.60	864.10	861.10	615.00	872.50	4688.92	872.50	532.65	0.0	0.0	0.31	
515	570.00	50.00	0.0	0.0	863.80	150.00	866.50	19.47	866.89	14.00	0.0	0.0	4.95	
	570.00	50.00	0.0	0.0	863.80	302.00	872.03	855.89	872.03	305.56	0.0	0.0	0.53	
	570.00	50.00	0.0	0.0	863.80	389.00	872.21	913.84	872.21	312.65	0.0	0.0	0.65	
	570.00	50.00	0.0	0.0	863.80	615.00	872.50	1011.25	872.50	324.02	0.0	0.0	0.95	
B	620.00	50.00	0.0	0.0	865.10	150.00	867.98	11.20	867.90	12.81	0.0	0.0	7.24	
	620.00	50.00	0.0	0.0	865.10	302.00	872.03	505.32	872.03	255.03	0.0	0.0	0.79	
	620.00	50.00	0.0	0.0	865.10	389.00	872.21	546.20	872.21	261.94	0.0	0.0	0.96	
	620.00	50.00	0.0	0.0	865.10	615.00	872.50	617.20	872.51	273.12	0.0	0.0	1.38	
C	1845	1280.00	1280.00	0.0	0.0	877.60	121.00	880.64	15.75	880.90	51.31	0.0	0.0	5.14
	1900.00	1280.00	0.0	0.0	877.60	236.00	881.01	24.33	881.44	63.10	0.0	0.0	7.16	
	1900.00	1280.00	0.0	0.0	877.60	303.00	881.16	28.72	881.68	67.35	0.0	0.0	8.08	
	1900.00	1280.00	0.0	0.0	877.60	475.00	881.54	42.15	882.18	78.20	0.0	0.0	9.40	
SECTION NUMBER	DISCHARGE CFS	CWSEL	CWSEL DIFF EACH Q	CWSEL DIFF EACH SECTION	CWSEL-WSELK	TOPWID	T.W. DIFF	LENGTH						
350.000	150.000	860.484	0.0	0.0	0.0	13.642	0.0	350.000						
350.000	302.000	861.311	0.827	0.0	0.0	117.237	-103.595	350.000						
350.000	389.000	861.505	0.194	0.0	0.0	124.616	-110.974	350.000						
350.000	615.000	861.868	0.363	0.0	0.0	138.471	-124.829	350.000						
400.000	150.000	861.379	0.0	0.895	0.0	12.800	0.0	50.000						
400.000	302.000	862.712	1.333	1.401	0.0	117.293	-104.493	50.000						
400.000	389.000	862.892	0.180	1.380	0.0	124.141	-111.341	50.000						
400.000	615.000	863.245	0.353	1.377	0.0	137.577	-124.777	50.000						
450.000	150.000	864.133	0.0	2.755	0.0	106.699	0.0	50.000						
450.000	302.000	864.430	0.315	1.738	0.0	118.712	-12.013	50.000						
450.000	389.000	864.535	0.116	1.673	0.0	123.122	-16.424	50.000						
450.000	615.000	864.759	0.193	1.514	0.0	130.483	-23.784	50.000						

	520,000	150,000	866.769	0.0	2.634	0.0	207.166	0.0	70,000
	520,000	302,000	872.027	5.258	7.578	0.0	521,398	-314,232	70,000
	520,000	389,000	872.209	0.181	7.643	0.0	525,717	-318,551	70,000
	520,000	615,000	872.500	0.291	7.741	0.0	532,663	-325,498	70,000
	570,000	150,000	866.505	0.0	-0.264	0.0	13,998	0.0	50,000
1	570,000	302,000	872.026	5.521	-0.001	0.0	303,564	-291,566	50,000
2	570,000	329,000	872.207	0.181	-0.001	0.0	312,655	-298,656	50,000
3	570,000	615,000	872.497	0.290	-0.003	0.0	324,022	-310,024	50,000
4									
5	620,000	150,000	867.084	0.0	0.579	0.0	12,807	0.0	50,000
6	620,000	302,000	872.025	4.942	-0.001	0.0	255,035	-242,227	50,000
7	620,000	389,000	872.206	0.181	-0.001	0.0	261,935	-249,128	50,000
8	620,000	615,000	872.496	0.290	-0.001	0.0	273,115	-260,300	50,000
9									
10	1900,000	121,000	880.639	0.0	3.556	0.0	51,310	0.0	1280,000
11	1900,000	236,000	881.009	0.370	8.984	0.0	63,104	-11,794	1280,000
12	1900,000	303,000	881.159	0.150	11.953	0.0	67,349	-16,038	1280,000
13	1900,000	475,000	881.543	0.384	9.047	0.0	78,203	-26,893	1280,000

DATA FOR LAST CROSS SECTION

	PROFILE	TYPE	ENC	TARGET	TOP WIDTH AREA-ACRES	TOP WIDTH AREA-DIFF
19	1	0.0		0.0	1.420	0.0
20	2	0.0		0.0	6.255	4.835
21	3	0.0		0.0	6.455	5.035
22	4	0.0		0.0	6.841	5.421
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