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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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C
1       THOMASVILLE-DAVIDSON CO.    STRM 30T
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	FQ
	-1.	2.	0.	0.	0.032000	0.0	0.0	0.	820.900	0.0

J2	NPROF	IPLOT	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
NC	0.055	0.055	0.035	0.100	0.300	0.0	0.0	0.0	0.0	0.0
QT	5.000	142.000	271.000	345.000	532.000	345.000	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	~~200.000~~ 26	11.000	1251.000	1261.000	200.000	200.000	200.000	0.0	-3.500	0.0
GR	836.900	1000.000	831.700	1100.000	823.200	1200.000	822.200	1251.000	817.800	1254.000
GR	817.400	1257.000	817.900	1259.000	822.000	1261.000	826.300	1300.000	828.000	1400.000
GR	836.900	1550.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X1	~~250.000~~ 126	0.0	0.0	0.0	50.000	50.000	50.000	0.0	3.500	0.0
NC	0.025	0.025	0.025	0.100	0.300	0.0	0.0	0.0	0.0	0.0
X1	~~300.000~~ 276	14.000	1255.800	1258.300	50.000	50.000	50.000	0.0	0.0	0.0
GR	836.100	1000.000	830.500	1100.000	826.400	1200.000	826.500	1215.000	825.700	1251.000
GR	822.100	1255.800	821.400	1256.000	820.900	1257.000	821.400	1258.300	825.500	1261.000
GR	826.600	1270.000	826.500	1300.000	830.600	1400.000	836.900	1550.000	0.0	0.0
SB	0.900	1.500	2.500	0.0	2.500	0.010	4.900	0.0	0.0	0.0
X1	~~348.000~~ 224	0.0	0.0	0.0	48.000	48.000	48.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	823.400	826.400	0.0	0.0	0.0	0.0	0.0
BT	13.000	1000.000	836.100	0.0	1100.000	830.500	0.0	1200.000	826.400	0.0
BT	1215.000	826.500	0.0	1255.800	826.400	822.100	1256.000	826.400	822.900	1257.000
BT	826.400	823.400	1258.000	826.400	822.900	1258.300	826.400	822.100	1270.000	826.600
BT	0.0	1300.000	826.500	0.0	1400.000	830.600	0.0	1550.000	836.900	0.0
NC	0.055	0.055	0.035	0.100	0.300	0.0	0.0	0.0	0.0	0.0
X1	~~398.000~~ 224	11.000	1251.000	1261.000	50.000	50.000	50.000	0.0	3.500	0.0
GR	836.900	1000.000	831.700	1100.000	823.200	1200.000	822.200	1251.000	817.800	1254.000
GR	817.400	1257.000	817.900	1259.000	822.000	1261.000	826.300	1300.000	828.000	1400.000
GR	836.900	1550.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X1	~~448.000~~ 224	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.0	0.0
QT	5.000	82.000	163.000	211.000	337.000	211.000	0.0	0.0	0.0	0.0
⇒ Set limit @ 224										
X1	1100.000	11.000	1201.000	1209.000	652.000	652.000	652.000	0.0	0.0	0.0
GR	842.300	1000.000	835.400	1100.000	826.900	1200.000	826.100	1201.000	821.800	1202.000
GR	820.800	1205.000	822.400	1207.000	825.900	1209.000	828.400	1300.000	835.400	1400.000

GR	841.800	1462.000	0.0	0.0	0.0	0.0	0.0	0.0	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

CCHV= 0.100 CEHV= 0.300

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
200.00	2.90	815.80	816.80	820.90	817.89	1.09	0.0	0.0	818.70
142.	0.	142.	0.	0.	17.	0.	0.	0.	818.50
0.0	0.0	8.38	0.0	0.055	0.035	0.055	0.0	813.90	1252.29
0.021341	200.	200.	200.	0	18	1	0.0	7.88	1260.17

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
250.00	2.90	820.30	820.30	0.0	821.39	1.09	1.06	0.0	822.20
142.	0.	142.	0.	0.	17.	0.	0.	0.	822.00
0.00	0.0	8.37	0.0	0.055	0.035	0.055	0.034	817.40	1252.29
0.021255	50.	50.	50.	30	5	1	0.0	7.88	1260.17

CCHV= 0.100 CEHV= 0.300

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
300.00	4.07	824.97	824.97	0.0	826.09	1.12	0.54	0.0	822.10
142.	29.	93.	20.	6.	9.	4.	0.	0.	821.40
0.00	5.29	9.84	4.77	0.025	0.025	0.025	0.029	820.90	1252.97
0.006582	50.	50.	50.	30	11	1	0.0	8.68	1260.65

SPECIAL BRIDGE

5070.VARIABLE ELCHU OR ELCHD ON CARD SB NOT SPECIFIED

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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 30T
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	FQ
	-10.	3.	0.	0.	0.032000	0.0	0.0	0.	821.900	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
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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
200.00	4.14	818.04	818.04	821.90	819.54	1.50	0.0	0.0	818.70
271.	0.	271.	0.	0.	28.	0.	0.	0.	818.50
0.0	0.0	9.83	0.0	0.055	0.035	0.055	0.0	813.90	1251.45
0.021022	200.	200.	200.	0	11	1	0.0	9.32	1260.77

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3685 20 TRIALS USED WSEL=CWSEL

7185 MIN SPECIFIC ENERGY

3720 ASSUMED CRITICAL DEPTH
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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
250.00	4.14	821.54	821.54	0.0	823.04	1.49	1.05	0.0	822.20
271.	0.	271.	0.	0.	28.	0.	0.	0.	822.00
0.00	0.0	9.81	0.0	0.055	0.035	0.055	0.034	817.40	1251.45
0.020903	50.	50.	50.	30	5	1	0.0	9.33	1260.78

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



T1      THOMASVILLE-DAVIDSON CO.    STRM 30T
T2      FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-3 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.  0.032000     0.0      0.0      0.    823.900    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

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

   200.00      4.71    818.61    818.61    823.90    820.30      1.69      0.0      0.0     818.70
      345.       0.      345.       0.        0.       33.        0.        0.       0.     818.50
      0.0        0.0     10.42     0.04      0.055     0.035     0.055     0.0    813.90    1251.06
 0.020723      200.     200.      200.         0        16         1       0.0     10.93    1261.99

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

   250.00      4.65    822.05    822.05      0.0     823.80      1.75      1.07     0.0     822.20
      345.       0.      345.       0.        0.       32.        0.        0.       0.     822.00
      0.00       0.0     10.63     0.04      0.055     0.035     0.055     0.034  817.40    1251.10
 0.021951       50.      50.       50.         30         8         1       0.0     10.31    1261.41


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


T1      THOMASVILLE-DAVIDSON CO.    STRM 30T
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      FQ
      -10.      5.       0.       0.  0.032000     0.0       0.0       0.   824.900     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     CWS L     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

  200.00      6.35    820.25    820.25    824.90    820.93      0.68      0.0       0.0     818.70
     532.     123.      381.      28.       55.       49.       14.       0.        0.      818.50
     0.0      2.23      7.71      2.01    0.055     0.035     0.055     0.0     815.90    1195.58
0.006698      200.      200.      200.        0        16         1     0.0      83.25    1276.83

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

  250.00      6.25    823.65    823.65      0.0     824.43      0.78      0.36      0.0     822.20
     532.     112.      394.      26.       50.       49.       12.       0.        0.      822.00
     0.00     2.25      8.12      2.07    0.055     0.035     0.055     0.934   817.40    1194.67
0.007634       50.       50.       50.       30         5         1     0.0      81.32    1275.99

CCHV=   0.100 CEHV=   0.300
3685 20 TRIALS USED WSEL,CWSEL
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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
200.00	200.00	0.0	0.0	813.90	142.00	816.80	9.72	817.89	7.88	0.0	0.0	6.38
200.00	200.00	0.0	0.0	813.90	271.00	818.04	18.69	819.54	9.32	0.0	0.0	9.83
200.00	200.00	0.0	0.0	813.90	345.00	818.61	23.97	820.30	10.93	0.0	0.0	10.42
200.00	200.00	0.0	0.0	813.90	532.00	820.24	65.00	820.93	83.25	0.0	0.0	7.71
250.00	50.00	0.0	0.0	817.40	142.00	820.30	9.74	821.39	7.88	0.0	0.0	8.37
250.00	50.00	0.0	0.0	817.40	271.00	821.54	18.74	823.04	9.33	0.0	0.0	9.81
250.00	50.00	0.0	0.0	817.40	345.00	822.05	23.29	823.80	10.31	0.0	0.0	10.63
250.00	50.00	0.0	0.0	817.40	532.00	823.65	60.89	824.43	81.32	0.0	0.0	8.12
300.00	50.00	0.0	0.0	820.90	142.00	824.97	17.50	826.09	8.68	0.0	0.0	9.84
300.00	50.00	0.0	0.0	820.90	271.00	826.73	58.79	827.10	113.87	0.0	0.0	7.22
300.00	50.00	0.0	0.0	820.90	345.00	826.89	71.36	827.23	121.61	0.0	0.0	7.71
300.00	50.00	0.0	0.0	820.90	532.00	827.13	94.35	827.62	132.96	0.0	0.0	9.24
348.00	48.00	826.40	823.40	820.90	142.00	826.92	73.80	826.98	122.96	0.0	0.0	3.08
348.00	48.00	826.40	823.40	820.90	271.00	827.30	114.72	827.38	141.32	0.0	0.0	3.94
348.00	48.00	826.40	823.40	820.90	345.00	827.44	134.06	827.54	148.33	0.0	0.0	4.36
348.00	48.00	826.40	823.40	820.90	532.00	827.75	182.92	827.88	163.45	0.0	0.0	5.09
398.00	50.00	0.0	0.0	820.90	142.00	826.93	52.09	827.01	76.78	0.0	0.0	2.46
398.00	50.00	0.0	0.0	820.90	271.00	827.28	66.69	827.45	84.02	0.0	0.0	3.85
398.00	50.00	0.0	0.0	820.90	345.00	827.40	72.59	827.63	86.58	0.0	0.0	4.57
398.00	50.00	0.0	0.0	820.90	532.00	827.64	85.39	828.03	91.65	0.0	0.0	6.18
448.00	50.00	0.0	0.0	820.90	142.00	826.97	53.35	827.05	77.48	0.0	0.0	2.41
448.00	50.00	0.0	0.0	820.90	271.00	827.38	71.51	827.53	86.12	0.0	0.0	3.63
448.00	50.00	0.0	0.0	820.90	345.00	827.55	80.17	827.74	89.65	0.0	0.0	4.22
448.00	50.00	0.0	0.0	820.90	532.00	827.93	102.84	828.21	97.76	0.0	0.0	5.32
Limit of Study @ C (Sta. 3+24)												
1100.00	652.00	0.0	0.0	820.80	82.00	827.37	42.48	827.41	68.27	0.0	0.0	1.63
1100.00	652.00	0.0	0.0	820.80	163.00	828.11	69.77	828.15	103.52	0.0	0.0	2.16
1100.00	652.00	0.0	0.0	820.80	211.00	828.43	86.43	828.48	118.21	0.0	0.0	2.34
1100.00	652.00	0.0	0.0	820.80	337.00	829.05	135.17	829.10	134.59	0.0	0.0	2.55

SECTION NUMBER	DISCHARGE CFS	CWSEL	CWSEL DIFF EACH Q	CWSEL DIFF EACH SECTION	CWSEL-WSELK	TOPWID	T.W. DIFF	LENGTH
200.000	142.000	816.800	0.0	0.0	0.0	7.876	0.0	200.000
200.000	271.000	818.035	1.236	0.0	0.0	9.321	-1.445	200.000
200.000	345.000	818.609	0.574	0.0	0.0	10.933	-3.057	200.000
200.000	532.000	820.245	1.636	0.0	0.0	83.251	-75.375	200.000
250.000	142.000	820.303	0.0	3.503	0.0	7.880	0.0	50.000
250.000	271.000	821.542	1.239	3.506	0.0	9.328	-1.448	50.000
250.000	345.000	822.045	0.504	3.436	0.0	10.309	-2.429	50.000
250.000	532.000	823.652	1.607	3.408	0.0	81.318	-73.438	50.000
300.000	142.000	824.972	0.0	4.669	0.0	8.683	0.0	50.000
300.000	271.000	826.734	1.761	5.192	0.0	113.868	-105.185	50.000
300.000	345.000	826.892	0.159	4.847	0.0	121.609	-112.926	50.000
300.000	532.000	827.125	0.233	3.473	0.0	132.959	-124.276	50.000

348.000	142.000	826.919	0.0	1.947	0.0	122.955	0.0	48.000
348.000	271.000	827.295	0.376	0.562	0.0	141.322	-18.366	48.000
348.000	345.000	827.439	0.144	0.547	0.0	148.331	-25.375	48.000
348.000	532.000	827.748	0.309	0.623	0.0	163.452	-40.497	48.000
398.000	142.000	826.934	0.0	0.014	0.0	76.783	0.0	50.000
398.000	271.000	827.281	0.348	-0.014	0.0	84.016	-7.232	50.000
398.000	345.000	827.404	0.123	-0.036	0.0	86.577	-9.794	50.000
398.000	532.000	827.642	0.238	-0.106	0.0	91.648	-14.865	50.000
448.000	142.000	826.974	0.0	0.040	0.0	77.476	0.0	50.000
448.000	271.000	827.362	0.409	0.101	0.0	86.121	-8.645	50.000
448.000	345.000	827.551	0.169	0.140	0.0	89.651	-12.175	50.000
448.000	532.000	827.935	0.384	0.293	0.0	97.758	-20.282	50.000
1100.000	82.000	827.374	0.0	0.400	0.0	68.273	0.0	652.000
1100.000	163.000	828.107	0.733	0.724	0.0	103.516	-35.243	652.000
1100.000	211.000	828.429	0.323	0.878	0.0	118.208	-49.934	652.000
1100.000	337.000	829.047	0.618	1.113	0.0	134.594	-66.320	652.000

DATA FOR LAST CROSS SECTION

PROFILE	TYPE ENC	TARGET AREA-ACRES	TOP WIDTH AREA-DIFF
1	0.0	0.0	1.385	0.0
2	0.0	0.0	1.868	0.483
3	0.0	0.0	2.028	0.643
4	0.0	0.0	2.375	0.991