
 RECD VERSION UPDATED JAN 1975
 ERROR CORRECTIONS 01,02,03,04,05,06,07,08
 MODIFICATIONS 52,53,54,55,56,57,58

1 LEXINGTON-DAVIDSON CO. STRM 120
 12 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918
 13 10 YEAR FLOOD WATER SURFACE PROFILE

01	ICHECK	ING	MINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	EQ
	-1.	2.	0.	0.	0.046000	0.0	0.0	0.	688.700	0.0
02	UPROT	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IDW	CHNIM	ITRACE
	0.0	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	1.000	34.000	3.000	4.000	27.000	28.000	26.000	0.0	0.0	0.0
16	0.025	0.025	0.025	0.100	0.300	0.0	0.0	0.0	0.0	0.0
17	5.000	102.000	212.000	279.000	454.000	279.000	0.0	0.0	0.0	0.0
18	5.000	0.0	0.0	0.0	0.0	-10.400	0.0	0.0	0.0	0.0
19	200.000	6.000	1088.000	1093.000	200.000	200.000	200.000	0.0	0.0	0.0
20	701.200	1080.000	685.300	1088.000	683.700	1090.000	685.500	1093.000	686.200	1100.000
21	701.200	1187.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	5.000	79.000	107.000	221.000	366.000	221.000	0.0	0.0	0.0	0.0
23	1420.000	10.000	1158.000	1164.000	1200.000	1200.000	1200.000	0.0	-2.000	0.0
24	757.700	1000.000	749.200	1100.000	743.400	1158.000	741.600	1160.000	741.800	1161.000
25	741.800	1163.000	742.000	1164.000	742.000	1200.000	751.000	1300.000	757.700	1382.000
26	1420.000	0.0	1.0	0.0	50.000	50.000	50.000	0.0	2.000	0.0
27	0.025	0.025	0.025	0.100	0.300	0.0	0.0	0.0	0.0	0.0
28	1500.000	12.000	1160.400	1161.700	50.000	50.000	50.000	0.0	0.0	0.0
29	743.700	1000.000	741.200	1100.000	745.400	1158.000	744.400	1160.400	744.000	1160.600
30	745.000	1161.000	744.000	1161.500	744.400	1161.700	744.800	1164.000	744.000	1200.000
31	755.000	1300.000	759.700	1382.000	0.0	0.0	0.0	0.0	0.0	0.0
32	0.000	1.500	2.500	0.0	1.300	0.010	1.200	0.0	0.0	0.0
33	1567.000	18.000	1483.400	1484.700	67.000	67.000	67.000	0.0	0.0	0.0
34	0.0	0.0	1.000	747.300	0.0	0.0	0.0	0.0	0.0	0.0
35	15.800	1000.000	770.600	0.0	1100.000	768.500	0.0	1200.000	764.500	0.0
36	1300.000	760.100	0.0	1400.000	756.600	0.0	1483.400	755.600	745.600	1483.600
37	745.000	747.300	1484.000	755.600	747.300	1484.500	755.600	747.000	1484.700	755.600
38	759.600	1500.000	755.700	0.0	1600.000	757.700	0.0	1700.000	761.200	0.0
39	1300.000	763.400	0.0	1900.000	763.600	0.0	0.0	0.0	0.0	0.0
40	770.600	1000.000	768.500	1100.000	764.500	1200.000	760.100	1300.000	757.400	1577.000
41	745.400	1423.000	747.600	1481.000	746.600	1483.400	746.300	1483.600	746.000	1484.000
42	745.500	1400.500	746.600	1484.700	747.000	1487.000	746.200	1523.000	745.200	1523.000
43	763.200	1700.000	763.400	1600.000	763.600	1900.000	0.0	0.0	0.0	0.0
44	0.025	0.025	0.025	0.100	0.300	0.0	0.0	0.0	0.0	0.0
45	1567.000	18.000	1483.400	1484.700	67.000	67.000	67.000	0.0	0.0	0.0

GR 743,800 1123,000 742,800 1124,000 742,000 1200,000 752,000 1300,000 757,700 1302,000

XJ 1457,000 0.0 0.0 0.0 50,000 50,000 50,000 0.0 2,000 0.0
 EJ 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

CEHV= 0.100 CEHV= 0.300

3720 ASSUMED CRITICAL DEPTH

SEENO	DEPTH	CWSFL	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
200.00	2.39	686.69	686.69	608.70	687.24	0.55	0.0	0.0	685.30
102.	12.	73.	16.	5.	11.	7.	0.	0.	685.56
0.0	2.33	6.86	2.50	0.055	0.035	0.055	0.0	683.70	1080.31
0.012329	200.	200.	200.	0	14	1	0.0	22.53	1102.84

3685 20 TRIALS USED WSEL,CWSFL

7185 MIN SPECIFIC ENERGY

3720 ASSUMED CRITICAL DEPTH

SEENO	DEPTH	CWSFL	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
1000.00	1.00	740.88	740.88	0.0	741.09	0.21	19.16	0.0	741.40
79.	0.	24.	55.	0.	9.	22.	1.	1.	740.80
0.10	0.0	5.35	2.52	0.055	0.035	0.055	0.035	739.80	1158.65
0.023684	1200.	1200.	1200.	30	17	1	0.0	51.15	1209.79

7185 MIN SPECIFIC ENERGY

3720 ASSUMED CRITICAL DEPTH

SEENO	DEPTH	CWSFL	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
1000.00	1.00	742.86	742.86	0.0	743.09	0.22	1.24	0.0	743.40
79.	0.	25.	54.	0.	4.	21.	1.	1.	742.80
0.10	0.0	5.56	2.59	0.055	0.035	0.055	0.035	741.80	1158.67
0.023106	50.	50.	50.	14	5	1	0.0	50.94	1209.61

CEHV= 0.100 CEHV= 0.300

7185 MIN SPECIFIC ENERGY

 HEC2 VERSION UPDATED JAN 1975
 ERROR CORRECTIONS 01,02,03,04,05,06,07,08
 MODIFICATIONS 52,53,54,55,56,57,58

01 LEXINGTON-DAVIDSON CO. STRM 12L
 02 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTYS H-6 JOB NO. 6918
 03 50 YEAR FLOOD WATER SURFACE PROFILE

01	ICHECK	INO	NINV	IDIR	STRT	METRIC	HVIUS	Q	WSLL	FO	"
	-10.	1.	0.	0.	0.046000	0.0	0.0	0.	689.700	0.0	
02	WPROF	IPLOT	PREVS	XSECV	XSECH	FN	ALLOC	IBW	CHNIN	ITRACE	
	2.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

COHV= 0.100 CCHV= 0.300

4720 ASSUMED CRITICAL DEPTH

SECTION	DEPTH	CWSLL	CRWS	WSELK	EG	HV	HL	GLOSS	BANK ELEV
TIME	VLOB	VCH	VROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
SLOPE	XLOB	XCH	XROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
	XLOBR	XLOBR	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPMID	ENDST
200.00	3.71	697.41	687.41	689.70	688.11	0.70	0.0	0.0	689.50
212.	3.8	420.	53.	12.	14.	15.	0.	0.	689.50
0.0	3.11	8.44	3.53	0.055	0.035	0.055	0.0	683.70	1076.33
0.012648	200.	200.	200.	0	19	1	0.0	30.68	1107.01

4725 20 TRIAL WSEL, WSEL, CWSLL

4726 20 SPECIFIC ENERGY

4720 ASSUMED CRITICAL DEPTH

SECTION	DEPTH	CWSLL	CRWS	WSELK	EG	HV	HL	GLOSS	BANK ELEV
TIME	VLOB	VCH	VROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
SLOPE	XLOB	XCH	XROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
	XLOBR	XLOBR	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPMID	ENDST
1000.00	1.30	741.14	741.14	0.0	741.49	0.34	21.16	0.0	741.40
167.	0.	41.	126.	0.	6.	34.	1.	1.	749.80
0.07	0.0	6.90	3.69	0.055	0.035	0.055	0.035	739.80	1159.32
0.023711	1000.	1200.	1200.	30	22	1	0.0	54.39	1212.71

4726 20 SPECIFIC ENERGY

 HEL2 VERSION UPDATED JAN 1975
 ERROR CORRECTIONS: 01,02,03,04,05,06,07,08
 MODIFICATIONS: 52,53,54,55,56,57,58

11- LEXINGTON-DAVIDSON CO. SRM 12L
 12- FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-6 JOB NO. 6918
 13- 100 YEAR FLOOD WATER SURFACE PROFILE

J1 ICHECK INQ MINV IDIR STRT METRIC HVINS Q WSLL FQ
 -10. 4. 0. 0. 0.746000 0.0 0.0 0. 691.700 0.0

J2 NPROF IPLOT PREVS XSECV XSECH FM ALLDC IBW CHN1M ITRACE
 3.000 0.0 -1.000 0.0 0.0 0.0 0.0 0.0 0.0 0.0

CEHV= 0.100 CEHV= 0.300

5720 ASSUMED CRITICAL DEPTH

SECD	DEPTH	CWSEL	CRINS	WSELK	EG	HV	HL	LOSS	BANK ELEV
Q	SLOR	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLORL	XLCH	XLORR	IRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
0000.00	1.95	687.75	687.75	691.70	688.50	0.76	0.0	0.0	685.30
273.	0.	144.	79.	17.	16.	20.	0.	0.	685.50
0.0	3.61	0.03	3.89	0.035	0.035	0.035	0.0	683.70	1074.46
0.012461	200.	200.	200.	0	0	1	0.0	34.51	1138.97

ASSUMED CRITICAL DEPTH USED WSEL,CWSEL

1100 M/S SPECIFIC ENERGY

5720 ASSUMED CRITICAL DEPTH

SECD	DEPTH	CWSEL	CRINS	WSELK	EG	HV	HL	LOSS	BANK ELEV
Q	SLOR	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLORL	XLCH	XLORR	IRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
1100.00	1.89	741.29	741.29	0.0	741.69	0.40	21.01	0.0	741.40
231.	0.	50.	171.	0.	7.	41.	1.	1.	740.50
0.0	5.0	7.37	4.13	0.035	0.035	0.035	0.035	739.20	1158.14
0.012461	1200.	1200.	1200.	36	22	1	0.0	56.20	1214.33

1100 M/S SPECIFIC ENERGY

 RECD VERSION UPDATED JAN. 1975
 SPRING CONSULTATIONS 01,02,03,04,05,06,07,08
 NOTIFICATIONS 50,53,54,55,56,57,59

01 LEXINGTON-DAVIDSON CO. STKM 12L
 02 FLOODPLAIN STUDY AS ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918
 03 500 YEAR FLOOD WATER SURFACE PROFILE

01	LCHECK	INO	MINV	IDIR	STRT	METRIC	HVINS	Q	WS&L	FQ
	10.	5.	0.	0.	0.046000	0.0	0.0	0.	692.700	0.0
02	MARGE	IDPLOT	PREVS	XSECV	XSECH	EM	ALLDC	TBW	CHNIM	ITRACE
	15.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

040V= 0.100 040V= 0.300

5720 ASSUMED CRITICAL DEPTH

SECNO	DEPTH	WS&L	CRIPS	WSELK	EG	HV	HL	LOSS	BANK ELEV
TIME	VLOS	WCH	VRDB	XNL	XNCH	XNR	WIN	ELMIN	SSTA
SLOPE	XLOPL	YLOH	XLOOR	ITRIAL	IOC	ICONT	CORAR	TOPWID	LNDSI
200.00	4.07	689.37	689.37	692.70	689.30	0.93	0.0	0.0	689.30
434.	107.	701.	106.	20.	19.	31.	0.	0.	685.50
0.0	4.12	10.54	4.68	0.055	0.035	0.055	0.0	683.70	1071.02
0.13300	200.	709.	200.	0.	11.	1.	0.0	41.55	1112.57

040V= 0.100 040V= 0.300

5720 ASSUMED CRITICAL DEPTH

SECNO	DEPTH	WS&L	CRIPS	WSELK	EG	HV	HL	LOSS	BANK ELEV
TIME	VLOS	WCH	VRDB	XNL	XNCH	XNR	WIN	ELMIN	SSTA
SLOPE	XLOPL	YLOH	XLOOR	ITRIAL	IOC	ICONT	CORAR	TOPWID	LNDSI
3000.00	1.01	741.01	741.61	0.0	742.16	0.55	22.24	0.0	741.40
750.	0.	75.	730.	0.	9.	50.	2.	1.	740.80
0.0	1.00	0.00	5.02	0.055	0.035	0.055	0.035	738.80	1155.92
0.00000	1200.	1200.	1200.	0.	13	1	0.0	61.05	1217.87

5720 ASSUMED CRITICAL DEPTH

SUMMARY PRINTOUT FOR MULTIPLE PROFILES

500 YEAR FLOOD WATER SUR

SECTION CHANNEL MIN EL OF MAY EL OF MIN EL DISCHARGE CWSEL TO EG TOP/ID STENCL STENCR VCH
 NUMBER LENGTH ROADWAY LOW CHORD GROUND (CFS)

200.00	200.00	0.0	0.0	683.70	102.00	686.69	9.19	687.24	22.53	0.0	0.0	6.86
200.00	200.00	0.0	0.0	683.70	212.00	687.41	18.85	688.11	30.68	0.0	0.0	8.44
200.00	200.00	0.0	0.0	683.70	279.00	687.75	24.99	688.50	34.51	0.0	0.0	9.03
200.00	200.00	0.0	0.0	683.70	454.00	688.37	39.22	689.30	41.55	0.0	0.0	10.54
1400.00	1200.00	0.0	0.0	739.80	79.00	740.80	5.14	741.05	51.15	0.0	0.0	5.35
1400.00	1200.00	0.0	0.0	739.80	167.00	741.14	9.69	741.58	54.39	0.0	0.0	6.20
1400.00	1200.00	0.0	0.0	739.80	221.00	741.29	12.79	741.69	56.20	0.0	0.0	7.37
1400.00	1200.00	0.0	0.0	739.80	366.00	741.61	21.01	742.15	61.95	0.0	0.0	8.60
1450.00	50.00	0.0	0.0	741.80	79.00	742.86	4.89	743.04	50.94	0.0	0.0	5.56
1450.00	50.00	0.0	0.0	741.80	167.00	743.15	9.31	743.48	54.46	0.0	0.0	6.83
1450.00	50.00	0.0	0.0	741.80	221.00	743.29	12.84	743.69	56.22	0.0	0.0	7.35
1450.00	50.00	0.0	0.0	741.80	366.00	743.61	21.06	744.15	61.99	0.0	0.0	8.59
1500.00	50.00	0.0	0.0	743.80	79.00	744.85	7.58	745.05	50.05	0.0	0.0	4.56
1500.00	50.00	0.0	0.0	743.80	167.00	745.12	16.50	745.45	53.75	0.0	0.0	5.07
1500.00	50.00	0.0	0.0	743.80	221.00	745.26	22.39	745.66	55.68	0.0	0.0	5.38
1500.00	50.00	0.0	0.0	743.80	366.00	745.58	38.83	746.12	61.45	0.0	0.0	5.97
1567.00	67.00	755.60	747.30	746.00	79.00	747.90	6.32	747.25	49.45	0.0	0.0	4.97
1567.00	67.00	755.60	747.30	746.00	167.00	756.58	3026.27	756.58	254.40	0.0	0.0	0.13
1567.00	67.00	755.60	747.30	746.00	221.00	756.72	3129.04	756.72	257.69	0.0	0.0	0.16
1567.00	67.00	755.60	747.30	746.00	366.00	757.02	3362.56	757.02	264.94	0.0	0.0	0.25
1617.00	50.00	0.0	0.0	748.00	79.00	749.07	4.94	749.29	50.98	0.0	0.0	5.52
1617.00	50.00	0.0	0.0	748.00	167.00	756.58	825.68	756.58	207.08	0.0	0.0	0.32
1617.00	50.00	0.0	0.0	748.00	221.00	756.72	858.09	756.72	210.17	0.0	0.0	0.41
1617.00	50.00	0.0	0.0	748.00	366.00	757.02	931.93	757.02	216.96	0.0	0.0	0.64
1667.00	50.00	0.0	0.0	750.00	79.00	751.07	5.00	751.29	51.03	0.0	0.0	5.97
1667.00	50.00	0.0	0.0	750.00	167.00	756.58	434.24	756.58	162.77	0.0	0.0	0.50
1667.00	50.00	0.0	0.0	750.00	221.00	756.72	455.42	756.72	165.63	0.0	0.0	0.64
1667.00	50.00	0.0	0.0	750.00	366.00	757.01	504.10	757.02	171.69	0.0	0.0	0.99

SECTION NUMBER	DISCHARGE CFS	CWSEL	CWSEL DIFF EACH	CWSEL DIFF EACH SECTION	CWSEL-WSELK	TOP/ID	TOP DIFF	LENGTH
200.000	102.000	686.689	0.0	0.0	0.0	22.533	0.0	200.000
200.000	212.000	687.407	0.718	0.0	0.0	30.677	-8.144	200.000
200.000	279.000	687.746	0.339	0.0	0.0	34.512	-11.979	200.000
200.000	454.000	688.367	0.621	0.0	0.0	41.549	-19.016	200.000
1400.000	79.000	740.861	0.0	54.132	0.0	51.145	0.0	1200.000
1400.000	167.000	741.143	0.282	53.736	0.0	54.391	-3.241	1200.000
1400.000	221.000	741.296	0.147	53.544	0.0	56.197	-5.052	1200.000
1400.000	366.000	741.601	0.313	53.291	0.0	61.944	-10.003	1200.000
1450.000	79.000	742.864	0.0	1.983	0.0	50.937	0.0	50.000
1450.000	167.000	743.152	0.288	2.005	0.0	54.465	-3.528	50.000
1450.000	221.000	743.292	0.143	2.002	0.0	56.221	-5.204	50.000
1450.000	366.000	743.609	0.319	2.002	0.0	61.945	-11.050	50.000

1500.000	79.000	746.067	0.000	1.905	0.0	50.087	0.0	50.000
1500.000	167.000	756.118	0.271	1.969	0.0	53.750	-3.663	50.000
1500.000	221.000	756.719	0.135	1.969	0.0	53.678	-5.001	50.000
1500.000	366.000	757.016	0.298	1.975	0.0	61.453	-11.366	50.000
1567.000	79.000	747.000	0.0	2.153	0.0	59.453	0.0	67.000
1567.000	167.000	756.584	9.589	11.466	0.0	254.402	-204.949	67.000
1567.000	221.000	756.719	0.134	11.458	0.0	257.688	-208.234	67.000
1567.000	366.000	757.016	0.298	11.432	0.0	264.936	-215.482	67.000
1617.000	79.000	749.067	0.0	2.068	0.0	50.902	0.0	50.000
1617.000	167.000	756.584	7.516	-0.001	0.0	207.283	-156.102	50.000
1617.000	221.000	756.719	0.135	0.0	0.0	210.172	-159.190	50.000
1617.000	366.000	757.016	0.297	-0.001	0.0	216.958	-165.976	50.000
1667.000	79.000	751.071	0.0	2.004	0.0	51.027	0.0	50.000
1667.000	167.000	756.083	5.512	-0.001	0.0	162.774	-111.747	50.000
1667.000	221.000	756.718	0.135	-0.001	0.0	165.626	-114.599	50.000
1667.000	366.000	757.014	0.296	-0.001	0.0	171.893	-120.866	50.000

DATA FOR LAST CROSS SECTION

PROFILL	TYPE ENC	TARGET	TOP WIDTH AREA-ACRES	TOP WIDTH AREA-DIFF
1	0.0	0.0	1.324	0.0
2	0.0	0.0	2.010	0.686
3	0.0	0.0	2.103	0.779
4	0.0	0.0	2.318	0.994

