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 HFCP 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 LEXINGTON-DAVIDSON CO. 1 STREAM 9L  
 2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918  
 3 10 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INO	MINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FR
	-1.	2.	0.	0.	0.024000	0.0	0.0	0.	728.000	0.0
J2	UPRO	IPLT	PREVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIN	ITRACE
	0.0	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
33	1.000	34.000	3.000	4.000	27.000	28.000	26.000	0.0	9.0	0.0
34	0.055	0.055	0.036	0.100	0.300	0.0	0.0	0.0	0.0	0.0
35	5.000	139.000	280.000	322.000	575.000	562.000	0.0	0.0	0.0	0.0
36	0.000	0.0	0.0	0.0	0.0	0.0	-10.400	0.0	0.0	0.0
37	250.000	9.900	1212.000	1228.000	250.000	250.000	250.000	0.0	0.0	0.0
38	742.400	1000.000	737.700	1100.000	727.500	1200.000	727.400	1212.000	723.400	1216.000
39	722.000	1219.000	723.500	1222.000	727.600	1228.000	742.400	1297.000	0.0	0.0
40	5.000	125.000	250.000	322.000	509.000	322.000	0.0	0.0	0.0	0.0
41	300.000	12.000	1123.000	1132.000	650.000	650.000	650.000	0.0	-6.100	0.0
42	755.200	1500.000	744.900	1100.000	741.100	1123.000	738.000	1126.000	737.800	1126.000
43	737.900	1130.000	740.200	1132.000	746.000	1200.000	747.000	1239.000	746.300	1255.000
44	740.900	1500.000	755.700	1311.000	0.0	0.0	0.0	0.0	0.0	0.0
45	0.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.700	0.0
46	0.000	0.0	0.000	0.100	0.300	0.0	0.0	0.0	0.0	0.0
47	1000.000	14.000	1000.000	1501.500	50.000	50.000	50.000	0.0	0.0	0.0
48	742.500	1472.000	740.200	1472.000	736.400	1495.000	734.600	1426.500	733.500	1499.000
49	735.500	1504.000	735.500	1501.500	734.600	1501.500	735.500	1504.000	741.300	1572.000
50	742.500	1633.000	740.200	1527.000	740.200	1672.000	751.500	1633.000	0.0	0.0
51	0.000	0.0	0.0	0.0	3.000	0.010	7.000	0.0	0.0	0.0
52	1122.000	0.000	1078.500	1501.500	172.000	172.000	172.000	0.0	0.0	0.0
53	0.0	0.0	1.000	751.100	746.300	0.0	0.0	0.0	0.0	0.0
54	17.000	1000.000	745.500	0.0	1100.000	751.100	0.0	1200.000	753.800	0.0
55	1500.000	735.100	0.0	1400.000	731.600	0.0	1498.500	746.300	739.600	1499.000
56	700.500	600.700	1500.000	745.300	741.100	1501.000	746.300	740.700	1501.500	746.300
57	739.500	1600.000	746.900	0.0	1630.000	747.700	0.0	1648.000	747.100	0.0
58	1700.000	757.000	0.0	1724.000	760.000	0.0	0.0	0.0	0.0	0.0
59	740.500	1000.000	751.100	1100.000	753.800	1200.000	755.100	1500.000	751.600	1400.000
60	750.200	1427.000	745.200	1472.000	741.400	1495.000	739.600	1498.500	758.500	1499.000
61	735.100	1500.000	732.000	1501.000	739.600	1501.500	740.500	1504.000	746.300	1572.000
62	740.900	1600.000	747.700	1630.000	747.100	1648.000	757.000	1700.000	740.000	1724.000
63	0.055	0.055	0.036	0.100	0.300	0.0	0.0	0.0	0.0	0.0
64	1228.000	12.000	1123.000	1132.000	650.000	650.000	650.000	0.0	0.0	0.0



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 HEC2 VERSION UPDATED JAN 1975  
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T1 LEXINGTON-DAVIDSON CO. STREAM 9L  
 T2 FLOODPLAIN STUDY AT HOWAN & DAVIDSON COUNTIES M-G JOB NO. 6918  
 T3 50 YEAR FLOOD WATER SURFACE PROFILE

J1 ICHECK INQ MINV IOIR STRT METRIC HVINS Q WSEL FQ  
 -10. 3. 0. 0. 0.024000 0.0 0.0 0. 729.000 0.0  
 J2 NPROF IPLOT PREVS XSECV XSECH FNE ALLDC IBW CHNIM ITRACE  
 2.000 0.0 -1.000 0.0 0.0 0.0 0.0 0.0 0.0 0.0

CHV= 0.100 CEHV= 0.300

3720 ASSUMED CRITICAL DEPTH

SECTD	DEPTH	WSEL	CRWS	WSELK	EG	HV	HL	LOSS	BANK ELEV
0	0.00	0CH	0ROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VELO	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
257.00	3.57	726.57	726.57	729.00	727.76	1.19	0.0	0.0	727.40
236.	0.	280.	0.	0.	32.	0.	0.	0.	727.60
0.6	0.0	0.77	0.0	0.055	0.035	0.035	0.0	723.00	1212.83
0.016328	250.	250.	250.	0	14	1	0.0	13.65	1229.49
800.00	3.95	735.64	735.61	0.0	736.06	0.94	0.69	0.04	735.00
250.	2.	216.	35.	1.	27.	14.	1.	0.	734.10
0.05	1.30	7.05	2.33	0.055	0.035	0.035	0.035	731.70	1119.09
0.013554	650.	650.	650.	8	0	1	0.0	31.03	1150.12

7185 470 SPECIFIC ENERGY

3720 ASSUMED CRITICAL DEPTH

SECTD	DEPTH	WSEL	CRWS	WSELK	EG	HV	HL	LOSS	BANK ELEV
0	0.00	0CH	0ROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VELO	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
150.00	3.51	737.31	737.31	0.0	737.18	0.07	0.59	0.0	732.70
250.	1.	217.	32.	1.	27.	13.	1.	0.	734.30
0.05	1.20	7.08	2.33	0.055	0.035	0.035	0.035	732.00	1119.29
0.013554	650.	650.	650.	8	0	1	0.0	31.03	1150.12

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T1 LEXINGTON-DAVIDSON CO. STREAM 9L  
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918  
 T3 100 YEAR FLOOD WATER SURFACE PROFILE

J1 ICHECK INQ NINV IOIR STRT METRIC HVINS O WSEL EQ

-10. 4. 0. 0. 0.024000 0.0 0.0 0. 731.000 0.0

J2 MPROF IPLOT PREVS XSECV XSECH EN ALLDC IBW CHN18 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

3720 ASSUMED CRITICAL DEPTH

SECHD	DEPTH	WSEL	CRWS	WSELK	EG	HV	HL	DLOSS	BANK ELEV
0	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	ICONF	CORAR	TOPWID	ENDST

250.00	6.98	727.08	727.08	731.00	728.40	1.32	0.0	0.0	727.40
352.	0.	352.	0.	0.	39.	0.	0.	0.	727.60
0.0	0.0	9.21	0.0	0.055	0.055	0.055	0.0	723.00	1212.52
0.016157	250.	250.	250.	0	0	1	0.0	14.92	1227.24

7105 111 SPECIFIC ENERGY

3720 ASSUMED CRITICAL DEPTH

SECHD	DEPTH	WSEL	CRWS	WSELK	EG	HV	HL	DLOSS	BANK ELEV
0	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	ICONF	CORAR	TOPWID	ENDST

300.00	4.35	736.03	736.03	0.0	736.92	0.90	0.38	0.0	735.00
342.	6.	259.	58.	5.	31.	22.	1.	0.	734.10
0.02	1.74	6.37	2.66	0.055	0.035	0.055	0.035	731.70	1116.79
0.010270	650.7	650.	650.	4	83.	1	0.0	37.78	1154.57

7105 111 SPECIFIC ENERGY

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T1 LEXINGTON-DAVIDSON CO. STREAM 9L  
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918  
 T3 500 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INQ	MINV	IDIR	STRT	METRIC	HVINS	0	WSLL	FO
	-10.	5.	0.	0.	0.024000	0.0	0.0	0.	732.000	0.0
J2	NEROF	IPLOT	PREVS	XSECV	XSECH	FN	ALLOC	IDW	CHNIM	ITRACE
	15.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CHVE= 0.100 CHV= 9.300

5720 ASSUMED CRITICAL DEPTH

SECNO	DEPTH	WSLL	CRINS	WSLLK	EG	HV	HL	QLOSS	BANK ELEV
0	DEPT	WCH	OROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XHL	XVCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	COBAR	TOPWID	LNDSI
250.00	9.30	720.36	720.36	732.00	729.63	1.27	0.0	0.0	727.40
0.75	23.	550.	2.	11.	00.	1.	0.	0.	727.60
10.0	2.12	9.24	1.42	0.055	0.035	0.055	0.0	723.00	1194.31
0.010511	250.	250.	250.	0.	14	1	0.0	37.25	1231.56

7180 100 SPECIFIC ENERGY

7220 ASSUMED CRITICAL DEPTH

SECNO	DEPTH	WSLL	CRINS	WSLLK	EG	HV	HL	QLOSS	BANK ELEV
0	DEPT	WCH	OROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XHL	XVCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	COBAR	TOPWID	LNDSI
900.00	5.07	230.77	734.77	0.0	737.75	0.92	6.55	0.0	735.00
509.	23.	381.	135.	9.	36.	42.	1.	1.	734.10
0.02	2.44	9.33	3.24	0.055	0.035	0.055	0.035	731.70	1112.29
0.009811	650.	650.	650.	9.	11	1	0.0	51.01	1165.30

8680 20 FTILES USED NGEL,CWSIL

7100 100 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	STENCR	STENCR	VCH
250.00	250.00	0.0	0.0	723.00	139.00	725.49	10.30	726.35	10.99	0.0	0.0	7.46
250.00	250.00	0.0	0.0	723.00	280.00	726.57	21.52	727.76	13.63	0.0	0.0	8.77
250.00	250.00	0.0	0.0	723.00	362.00	727.08	28.48	728.40	14.92	0.0	0.0	9.21
250.00	250.00	0.0	0.0	723.00	575.00	728.36	56.63	729.63	37.25	0.0	0.0	9.24
400.00	650.00	0.0	0.0	731.70	125.00	734.73	10.18	735.34	16.14	0.0	0.0	6.33
900.00	650.00	0.0	0.0	731.70	250.00	735.64	24.32	736.48	31.03	0.0	0.0	7.85
900.00	650.00	0.0	0.0	731.70	322.00	736.02	31.77	736.92	37.78	0.0	0.0	8.37
900.00	650.00	0.0	0.0	731.70	509.00	736.77	51.39	737.75	51.01	0.0	0.0	9.33
950.00	50.00	0.0	0.0	732.40	125.00	735.24	10.47	736.00	13.64	0.0	0.0	7.04
950.00	50.00	0.0	0.0	732.40	250.00	736.31	23.76	737.18	30.46	0.0	0.0	7.98
950.00	50.00	0.0	0.0	732.40	322.00	736.73	31.92	737.62	37.90	0.0	0.0	8.35
950.00	50.00	0.0	0.0	732.40	509.00	737.49	51.98	738.45	51.35	0.0	0.0	9.25
1000.00	50.00	0.0	0.0	733.10	125.00	736.20	16.62	737.12	23.03	0.0	0.0	7.10
1000.00	50.00	0.0	0.0	733.10	250.00	737.24	32.42	737.88	34.57	0.0	0.0	8.27
1000.00	50.00	0.0	0.0	733.10	322.00	737.51	41.36	738.19	39.23	0.0	0.0	8.74
1000.00	50.00	0.0	0.0	733.10	509.00	738.12	69.10	738.83	50.12	0.0	0.0	9.11
1172.00	172.00	746.30	741.10	738.10	125.00	746.62	505.53	746.63	128.09	0.0	0.0	0.45
1172.00	172.00	746.30	741.10	738.10	250.00	747.20	655.85	747.20	161.06	0.0	0.0	0.72
1172.00	172.00	746.30	741.10	738.10	322.00	747.38	710.56	747.39	176.19	0.0	0.0	0.87
1172.00	172.00	746.30	741.10	738.10	509.00	747.74	828.61	747.76	232.38	0.0	0.0	1.21
1222.00	50.00	0.0	0.0	738.20	125.00	746.62	261.92	746.63	120.45	0.0	0.0	0.67
1222.00	50.00	0.0	0.0	738.20	250.00	747.20	332.16	747.20	162.19	0.0	0.0	1.10
1222.00	50.00	0.0	0.0	738.20	322.00	747.38	357.37	747.39	176.18	0.0	0.0	1.34
1222.00	50.00	0.0	0.0	738.20	509.00	747.74	412.74	747.76	182.76	0.0	0.0	1.89
1272.00	50.00	0.0	0.0	738.30	125.00	746.62	250.90	746.63	115.71	0.0	0.0	0.69
1272.00	50.00	0.0	0.0	738.30	250.00	747.20	319.23	747.21	154.68	0.0	0.0	1.14
1272.00	50.00	0.0	0.0	738.30	322.00	747.38	343.74	747.40	168.73	0.0	0.0	1.38
1272.00	50.00	0.0	0.0	738.30	509.00	747.75	397.55	747.77	181.36	0.0	0.0	1.94

SECTION NUMBER	DISCHARGE (CFS)	CWSEL	CWSEL DIFF EACH	CWSEL DIFF EACH SECTION	CWSEL-WSELK	TOPWID	T.W. DIFF	LENGTH
250.000	139.000	725.456	0.0	0.0	0.0	10.992	0.0	250.000
250.000	280.000	726.566	1.081	0.0	0.0	13.655	-2.662	250.000
250.000	362.000	727.081	0.514	0.0	0.0	14.922	-3.930	250.000
250.000	575.000	728.362	1.282	0.0	0.0	37.251	-26.256	250.000
400.000	125.000	734.734	0.0	9.249	0.0	16.143	0.0	650.000
900.000	250.000	735.644	0.910	9.078	0.0	31.031	-14.888	650.000
900.000	322.000	736.025	0.381	8.944	0.0	37.782	-21.559	650.000
900.000	509.000	736.769	0.744	8.407	0.0	51.014	-34.871	650.000
950.000	125.000	735.236	0.0	0.501	0.0	13.630	0.0	50.000
950.000	250.000	736.312	1.077	0.668	0.0	30.456	-16.819	50.000
950.000	322.000	736.732	0.419	0.707	0.0	37.903	-24.266	50.000
950.000	509.000	737.488	0.756	0.719	0.0	51.348	-37.711	50.000

1000.000	125.000	736.595	0.0	1.360	0.0	23.034	0.0	50.000
1000.000	250.000	737.244	0.649	0.932	0.0	24.566	-11.532	50.000
1000.000	322.000	737.506	0.262	0.774	0.0	39.227	-16.193	50.000
1000.000	509.000	738.119	0.613	0.631	0.0	50.121	-27.087	50.000
1172.000	125.000	746.624	0.0	10.029	0.0	128.094	0.0	172.000
1172.000	250.000	747.198	0.574	9.954	0.0	161.059	-32.965	172.000
1172.000	322.000	747.381	0.183	9.874	0.0	176.187	-48.093	172.000
1172.000	509.000	747.744	0.363	9.624	0.0	202.377	-74.283	172.000
1222.000	125.000	746.624	0.0	-0.001	0.0	120.450	0.0	50.000
1222.000	250.000	747.197	0.573	-0.001	0.0	162.191	-41.741	50.000
1222.000	322.000	747.379	0.183	-0.001	0.0	176.181	-55.732	50.000
1222.000	509.000	747.740	0.361	-0.004	0.0	182.764	-62.315	50.000
1272.000	125.000	746.624	0.0	0.001	0.0	115.707	0.0	50.000
1272.000	250.000	747.199	0.574	0.002	0.0	154.677	-38.970	50.000
1272.000	322.000	747.382	0.184	0.003	0.0	168.726	-53.020	50.000
1272.000	509.000	747.747	0.364	0.007	0.0	181.360	-65.653	50.000

DATA FOR LAST CROSS SECTION

PROFILE	TYPE ENC	TARGET	TOP WIDTH AREA-ACRES	TOP WIDTH AREA-DIFF
1	0.0	0.0	0.817	0.0
2	0.0	0.0	1.160	0.342
3	0.0	0.0	1.308	0.489
4	0.0	0.0	1.704	0.887