
 HEC2 RELEASE DATED NOV 76 (UPDATED FEB 1977)
 ERROR CORR - 01
 MODIFICATION - 50,51,52

C
 T1 LEXINGTON-DAVIDSON CO. STREAM 7L
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918
 T3 10 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	ING	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FG
	-1.	2.	0.	0.	0.009000	0.0	0.0	0.	710.000	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	VARIABLE CODES FOR SUMMARY PRINTOUT									
	38.000	39.000	40.000	41.000	43.000	42.000	1.000	2.000	26.000	53.000
	54.000	25.000	50.000	0.0	201.000	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
QT	5.000	200.000	387.000	491.000	754.000	491.000	0.0	0.0	0.0	0.0
FT	5.000	0.0	0.0	0.0	0.0	-10.400	0.0	0.0	0.0	0.0
X1	373.000	9.000	1208.000	1231.000	373.000	373.000	373.000	0.0	0.0	0.0
GR	727.200	1000.000	714.700	1100.000	712.600	1200.000	712.400	1208.000	705.800	1216.000
GR	705.400	1219.000	705.900	1224.000	713.900	1231.000	727.200	1286.000	0.0	0.0
X1	448.000	0.0	0.0	0.0	75.000	75.000	75.000	0.0	2.200	0.0
NC	0.025	0.025	0.025	0.100	0.300	0.0	0.0	0.0	0.0	0.0
X1	498.000	19.000	1497.500	1502.500	50.000	50.000	50.000	0.0	0.0	0.0
GR	724.900	1000.000	726.000	1100.000	728.200	1200.000	729.100	1300.000	719.000	1381.000
GR	716.900	1481.000	716.700	1489.000	712.200	1497.500	710.400	1498.200	709.700	1500.000
GR	710.400	1501.800	712.200	1502.500	718.200	1512.000	731.500	1567.000	734.600	1600.000
GR	737.700	1700.000	740.400	1800.000	743.100	1900.000	744.200	2000.000	0.0	0.0
SB	0.900	3.200	2.500	0.0	5.000	0.010	19.630	0.0	0.0	0.0
X1	1078.000	17.000	1497.500	1502.500	580.000	580.000	580.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	719.400	0.0	0.0	0.0	0.0	0.0	0.0
BT	17.000	1000.000	741.400	0.0	1100.000	742.600	0.0	1200.000	744.900	0.0
BT	1272.000	738.500	0.0	1372.000	728.100	0.0	1449.000	722.400	0.0	1472.000
BT	722.100	0.0	1489.000	721.600	0.0	1497.500	755.200	716.900	1498.200	755.200
BT	718.700	1500.000	755.300	719.400	1501.800	755.400	718.700	1502.500	755.400	716.900
BT	1600.000	759.900	0.0	1700.000	763.900	0.0	1800.000	768.200	0.0	1846.000
BT	770.200	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GR	741.400	1000.000	742.600	1100.000	744.900	1200.000	738.500	1272.000	728.100	1372.000

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T1 LEXINGTON-DAVIDSON CO. STREAM 7L
 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.	0.009000	0.0	0.0	0.	711.000	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

*PROF 2

CCHV= 0.100 CEHV= 0.300

*SECNO 373.000

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
373.00	4.49	709.89	0.0	711.00	710.78	0.89	0.0	0.0	712.40
387.	0.	387.	0.	0.	51.	0.	0.	0.	713.90
0.0	0.0	7.55	0.0	0.055	0.035	0.055	0.0	705.40	1211.04
0.008901	373.	373.	373.	0	0	4	0.0	16.46	1227.49

*SECNO 448.000

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

3685 20 TRIALS ATTEMPTED WSEL, CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

448.00	3.85	711.45	711.45	0.0	712.83	1.38	0.88	0.15	714.60
387.	0.	387.	0.	0.	41.	0.	0.	0.	716.10
0.00	0.0	9.45	0.0	0.055	0.035	0.055	0.035	707.60	1211.82
0.016319	75.	75.	75.	20	15	0	0.0	15.11	1226.93

CCHV= 0.100 CEHV= 0.300

*SECNO 498.000

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

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T1 LEXINGTON-DAVIDSON CO. STREAM 7L
 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	FQ
	-10.	4.	0.	0.	3.009000	0.0	0.0	0.	713.000	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

*PROF 3

CCHV= 0.100 CEHV= 0.300
 *SECNO 373.000

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
373.00	5.06	710.46	0.0	713.00	711.47	1.01	0.0	0.0	712.40
491.	0.	491.	0.	0.	61.	0.	0.	0.	713.90
0.0	0.0	8.06	0.0	0.055	0.035	0.055	0.0	705.40	1210.35
0.008946	373.	373.	373.	0	0	4	0.0	17.64	1227.99

*SECNO 448.000

3301 HV CHANGED MORE THAN HVINS

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

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

448.00	4.38	711.98	711.98	0.0	713.51	1.53	0.87	0.16	714.60
491.	0.	491.	0.	0.	49.	0.	0.	0.	716.10
0.00	0.0	9.94	0.0	0.055	0.035	0.055	0.035	707.60	1211.17
0.015814	75.	75.	75.	20	11	0	0.0	16.22	1227.40

CCHV= 0.100 CEHV= 0.300
 *SECNO 498.000

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT

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T1 LEXINGTON-DAVIDSON CO. STREAM 7L
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 5918
 T3 500 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INO	MINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-10.	5.	0.	0.	0.009000	0.0	0.0	0.	714.000	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

*PROF 4

CCHV= 0.100 CEHV= 0.300

*SECNO 373.000

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
373.00	6.26	711.66	0.0	714.00	712.93	1.26	0.0	0.0	712.40
754.	0.	754.	0.	0.	84.	0.	0.	0.	713.90
0.0	0.0	9.02	0.0	0.055	0.035	0.055	0.0	705.40	1208.89
0.008977	373.	373.	373.	0	0	4	0.0	20.15	1229.04

*SECNO 448.000

3301 HV CHANGED MORE THAN HVINS

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

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

448.00	5.49	713.09	713.09	0.0	714.96	1.87	0.86	0.18	714.60
754.	0.	754.	0.	0.	69.	0.	0.	0.	716.10
0.00	0.0	10.97	0.0	0.055	0.035	0.055	0.035	707.60	1209.83
0.015241	75.	75.	75.	20	11	0	0.0	18.54	1228.37

CCHV= 0.100 CEHV= 0.300

*SECNO 498.000

3301 HV CHANGED MORE THAN HVINS

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NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

10 YEAR FLOOD WATER SURF

SUMMARY PRINTOUT

SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRIWS	VCH	SSTA	ENDST	AREA	DIFWSP
0.00												
373.000	373.00	0.0	0.0	200.00	705.40	708.60	0.0	6.30	1212.60	1226.36	31.73	0.0
373.000	373.00	0.0	0.0	387.00	705.40	709.89	0.0	7.55	1211.04	1227.49	51.24	1.29
373.000	373.00	0.0	0.0	491.00	705.40	710.46	0.0	8.06	1210.35	1227.99	60.94	0.57
373.000	373.00	0.0	0.0	754.00	705.40	711.66	0.0	9.02	1208.89	1229.04	83.62	1.20
* 448.000	75.00	0.0	0.0	200.00	707.60	710.29	710.29	8.02	1213.22	1225.92	24.94	0.0
* 448.000	75.00	0.0	0.0	387.00	707.60	711.45	711.45	9.43	1211.02	1226.93	41.06	1.16
* 448.000	75.00	0.0	0.0	491.00	707.60	711.98	711.98	9.94	1211.17	1227.40	49.42	0.53
* 448.000	75.00	0.0	0.0	754.00	707.60	713.09	713.09	10.97	1209.83	1228.37	68.72	1.11
* 498.000	50.00	0.0	0.0	200.00	709.70	714.15	714.15	9.08	1493.81	1505.59	25.37	0.0
* 498.000	50.00	0.0	0.0	387.00	709.70	715.52	715.52	10.57	1491.22	1507.76	44.80	1.37
* 498.000	50.00	0.0	0.0	491.00	709.70	716.06	716.06	11.24	1490.20	1508.62	54.25	0.54
* 498.000	50.00	0.0	0.0	754.00	709.70	717.67	717.67	9.98	1444.38	1511.16	108.42	1.60
* 1078.000	580.00	721.60	719.40	200.00	714.40	718.91	718.83	8.59	1493.86	1507.06	27.32	0.0
* 1078.000	580.00	721.60	719.40	387.00	714.40	723.18	0.0	3.45	1438.45	1516.74	166.71	4.27
1078.000	580.00	721.60	719.40	491.00	714.40	723.66	0.0	3.57	1431.97	1517.83	206.09	0.48
1078.000	580.00	721.60	719.40	754.00	714.40	724.58	0.0	3.84	1419.57	1519.91	291.56	0.92
1128.000	50.00	0.0	0.0	200.00	715.30	719.86	0.0	4.70	1220.15	1235.38	42.68	0.0
1128.000	50.00	0.0	0.0	387.00	715.30	723.16	0.0	3.63	1188.05	1252.77	135.56	3.29
1128.000	50.00	0.0	0.0	491.00	715.30	723.61	0.0	4.03	1172.73	1255.21	170.88	0.46
1128.000	50.00	0.0	0.0	754.00	715.30	724.51	0.0	4.74	1160.67	1259.92	251.97	0.89
1203.000	251.00	0.0	0.0	200.00	716.90	720.94	0.0	5.64	1220.77	1233.80	35.47	0.0
1203.000	251.00	0.0	0.0	387.00	716.90	723.40	0.0	5.14	1217.83	1245.63	84.44	2.46
1203.000	251.00	0.0	0.0	491.00	716.90	723.87	0.0	5.76	1217.27	1248.10	98.17	0.47
1203.000	251.00	0.0	0.0	754.00	716.90	724.72	0.0	7.14	1191.07	1252.57	133.07	0.85
1454.000	615.00	0.0	0.0	167.00	720.10	724.23	0.0	4.48	1117.96	1181.95	63.67	0.0
1454.000	615.00	0.0	0.0	330.00	720.10	725.22	0.0	4.29	1111.73	1197.27	138.14	0.99
1454.000	615.00	0.0	0.0	422.00	720.10	725.74	0.0	4.13	1108.57	1202.35	183.68	0.51
1454.000	615.00	0.0	0.0	659.00	720.10	726.75	0.0	4.07	1102.22	1209.65	285.96	1.01
1504.000	50.00	0.0	0.0	167.00	720.40	724.39	0.0	5.03	1118.78	1179.78	55.41	0.0
1504.000	50.00	0.0	0.0	330.00	720.40	725.32	0.0	4.87	1112.98	1194.20	121.47	0.93
1504.000	50.00	0.0	0.0	422.00	720.40	725.81	0.0	4.64	1109.91	1200.82	163.88	0.49
1504.000	50.00	0.0	0.0	659.00	720.40	726.80	0.0	4.48	1103.72	1207.93	260.64	0.99

SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRWS	VCH	SSTA	ENOST	AREA	DIFWSP
* 1554.000	50.00	0.0	0.0	167.00	722.00	725.84	725.84	6.67	1392.77	1446.27	42.02	0.0
* 1554.000	50.00	0.0	0.0	330.00	722.00	726.23	726.23	8.16	1310.98	1456.53	66.61	0.39
* 1554.000	50.00	0.0	0.0	422.00	722.00	726.51	726.51	7.49	1304.53	1460.78	94.06	0.28
* 1554.000	50.00	0.0	0.0	659.00	722.00	726.80	726.80	8.36	1296.36	1465.28	134.51	0.29
1578.000	24.00	726.70	724.50	167.00	722.00	727.39	0.0	1.11	1274.20	1473.69	244.39	0.0
1578.000	24.00	726.70	724.50	330.00	722.00	727.78	0.0	1.57	1259.82	1476.48	325.19	0.39
1578.000	24.00	726.70	724.50	422.00	722.00	727.95	0.0	1.76	1253.61	1477.68	362.11	0.18
1578.000	24.00	726.70	724.50	659.00	722.00	728.33	0.0	2.12	1239.60	1480.40	450.06	0.38
1628.000	50.00	0.0	0.0	167.00	723.20	727.29	0.0	4.62	1118.18	1181.41	61.44	0.0
* 1628.000	50.00	0.0	0.0	330.00	723.20	727.56	727.56	7.26	1116.47	1185.61	79.49	0.28
* 1628.000	50.00	0.0	0.0	422.00	723.20	727.73	727.73	8.16	1115.42	1188.20	91.44	0.17
* 1628.000	50.00	0.0	0.0	659.00	723.20	728.28	728.28	8.80	1112.00	1196.61	134.45	0.55
* 1678.000	50.00	0.0	0.0	167.00	724.40	728.06	728.06	6.52	1120.12	1165.49	37.60	0.0
* 1678.000	50.00	0.0	0.0	330.00	724.40	728.75	728.75	7.34	1116.56	1185.40	78.54	0.69
* 1678.000	50.00	0.0	0.0	422.00	724.40	728.99	728.99	7.81	1115.05	1189.12	95.81	0.24
* 1678.000	50.00	0.0	0.0	659.00	724.40	729.37	729.37	9.41	1112.67	1194.96	125.51	0.38
2534.000	856.00	0.0	0.0	108.00	730.80	734.41	0.0	4.37	1120.16	1163.48	35.51	0.0
2534.000	856.00	0.0	0.0	220.00	730.80	735.05	0.0	5.29	1117.15	1183.93	72.10	0.64
2534.000	856.00	0.0	0.0	286.00	730.80	735.33	0.0	5.55	1115.45	1188.13	91.12	0.27
2534.000	856.00	0.0	0.0	459.00	730.80	736.00	0.0	5.70	1111.25	1198.46	144.80	0.67

SUMMARY OF ERRORS

CAUTION SECNO= 448.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 448.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 448.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 448.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 448.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 448.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 448.000 PROFILE= 3 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 448.000 PROFILE= 3 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 448.000 PROFILE= 3 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 448.000 PROFILE= 4 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 448.000 PROFILE= 4 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 448.000 PROFILE= 4 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 498.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 498.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 498.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 498.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 498.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 498.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 498.000 PROFILE= 3 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 498.000 PROFILE= 3 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 498.000 PROFILE= 3 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 498.000 PROFILE= 4 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 498.000 PROFILE= 4 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 498.000 PROFILE= 4 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 1078.000 PROFILE= 1 WSEL ASSUMED BASED ON MIN DIFF
CAUTION SECNO= 1078.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION	SECNO= 1078.000	PROFILE= 2	HYDRAULIC JUMP D.S.
CAUTION	SECNO= 1554.000	PROFILE= 1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 1554.000	PROFILE= 1	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 1554.000	PROFILE= 1	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO= 1554.000	PROFILE= 2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 1554.000	PROFILE= 2	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 1554.000	PROFILE= 2	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO= 1554.000	PROFILE= 3	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 1554.000	PROFILE= 3	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 1554.000	PROFILE= 3	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO= 1554.000	PROFILE= 4	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 1554.000	PROFILE= 4	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 1554.000	PROFILE= 4	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO= 1628.000	PROFILE= 2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 1628.000	PROFILE= 2	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 1628.000	PROFILE= 2	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO= 1628.000	PROFILE= 3	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 1628.000	PROFILE= 3	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 1628.000	PROFILE= 3	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO= 1628.000	PROFILE= 4	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 1628.000	PROFILE= 4	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 1628.000	PROFILE= 4	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO= 1678.000	PROFILE= 1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 1678.000	PROFILE= 1	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 1678.000	PROFILE= 1	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO= 1678.000	PROFILE= 2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 1678.000	PROFILE= 2	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 1678.000	PROFILE= 2	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO= 1678.000	PROFILE= 3	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 1678.000	PROFILE= 3	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 1678.000	PROFILE= 3	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO= 1678.000	PROFILE= 4	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 1678.000	PROFILE= 4	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 1678.000	PROFILE= 4	20 TRIALS ATTEMPTED TO BALANCE WSEL

FLOOD INSURANCE ZONE DATA FOR 10 YEAR FLOOD WATER SURF

FLOOD HAZARD FACTOR FOR ENTIRE REACH USING SECTIONS

SECTION NUMBER	CUMULATIVE DISTANCE	ELEVATION DIFFERENCE BETWEEN BASE FLOOD AND		
		10c	2c	0.2c
373,000	0.	-1.9	-0.6	1.2
448,000	75.	-1.7	-0.5	1.1
498,000	125.	-1.9	-0.5	1.6
1078,000	705.	-4.7	-0.5	0.9
1128,000	755.	-3.8	-0.5	0.9
1203,000	1006.	-2.9	-0.5	0.9
1454,000	1621.	-1.5	-0.5	1.0
1504,000	1671.	-1.4	-0.5	1.0
1554,000	1721.	-0.7	-0.3	0.3
1578,000	1745.	-0.6	-0.2	0.4
1628,000	1795.	-0.4	-0.2	0.5
1678,000	1845.	-0.9	-0.2	0.4
2534,000	2701.	-0.9	-0.3	0.7

WEIGHTED AVG FOR REACH		-2.1	-0.4	0.9

FHF FOR THE REACH = 020 WITH 29.2c OF THE REACH WITHIN 1.0 FEET ZONE FOR THE REACH = A 4

CONTINUOUS FLOOD HAZARD FACTORS BY EVEN INCREMENTS

INC NO.	TOTAL LENGTH	AVG ELEVATION DATA			WTD. AVG.	FHF	PERCENT WITHIN
		10c	1c	DIFF.			
	0.					SEC.	373,000
1	100.	709.7	711.5	-1.7	-1.7	015	100.
	75.					SEC.	448,000
	125.					SEC.	498,000
2	200.	714.5	716.6	-2.1	-1.9	020	100.
3	300.	715.2	717.7	-2.5	-2.1	020	100.
4	400.	716.0	719.0	-3.0	-2.3	025	100.
5	500.	716.8	720.3	-3.5	-2.6	025	100.
6	600.	717.6	721.6	-4.0	-2.8	030	67.
7	700.	718.5	722.9	-4.5	-3.0	030	71.
	705.					SEC.	1078,000
	755.					SEC.	1128,000
8	800.	720.0	723.6	-3.7	-3.1	030	63.
9	900.	720.3	723.7	-3.4	-3.2	030	67.
10	1000.	720.7	723.8	-3.1	-3.2	030	70.
	1006.					SEC.	1203,000
11	1100.	721.2	724.0	-2.8	-3.1	030	73.
12	1200.	721.7	724.3	-2.6	-3.1	030	83.
13	1300.	722.2	724.6	-2.4	-3.0	030	85.
14	1400.	722.8	724.9	-2.1	-3.0	030	79.

15	1500.	723.3	725.2	-1.9	-2.9	030	80.
16	1600.	723.8	725.5	-1.7	-2.8	030	75.
	1621.					SEC.	1454.000
	1671.					SEC.	1504.000
17	1700.	724.8	726.0	-1.2	-2.7	025	76.
	1721.					SEC.	1554.000
	1745.					SEC.	1578.000
	1795.					SEC.	1628.000
18	1800.	727.3	727.8	-0.5	-2.6	025	72.
	1845.					SEC.	1678.000
19	1900.	727.9	728.6	-0.7	-2.5	025	63.
20	2000.	728.8	729.8	-0.9	-2.4	025	55.
21	2100.	729.6	730.5	-0.9	-2.3	025	52.
22	2200.	730.3	731.2	-0.9	-2.3	025	50.
23	2300.	731.1	732.0	-0.9	-2.2	020	48.
24	2400.	731.8	732.7	-0.9	-2.2	020	50.
25	2500.	732.5	733.5	-0.9	-2.1	020	48.
26	2600.	733.3	734.2	-0.9	-2.1	020	42.
27	2700.	734.0	734.9	-0.9	-2.0	020	41.
	2701.					SEC.	2534.000

THIS REACH CAN BE SUBDIVIDED BY INC NO, TO MEET FIA REQUIREMENTS
INPUT 20N WHERE N IS THE NUMBER OF REACHES AND THEN INPUT THE END
OF EACH REACH BY INC NO, FOR EXAMPLE 202 15 27
A NEGATIVE INC NO. WILL SUPPRESS INTERMEDIATE INC OUTPUT.

HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977
ERROR CORR - 01
MODIFICATION - 50,51,52

EU