

IVEY  
BRANCH

# IVEY BRANCH

FIA

SNUMB = 2661T, ACTIVITY # = 01, REPORT CODE = 52, RECORD COUNT = 000476

T1 LUMBERTON NC IVEY BRANCH  
 T2 FLOOD INSURANCE STUDY  
 T3 10-YEAR Q IVEY BRANCH

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FR
	0.	2.	0.	0.	0.	0.	0.	0.	121,690	0.
J2	NPROF	IPLT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	1,000	0.	-1,000	5,000	500,000	0.	0.	0.	0.	0.
J3	VARIABLE CODES FOR SUMMARY PRINTOUT									
	38,000	1,000	50,000	42,000	33,000	58,000	39,000	0.	38,000	1,000
	50,000	51,000	40,000	41,000	25,000	0.	38,000	1,000	43,000	13,000
	55,000	14,000	26,000	15,000	56,000	8,000	0.	38,000	1,000	50,000
	7,000	16,000	17,000	18,000	4,000	53,000	54,000	34,000	0.	0.
NC	0.120	0.120	0.060	0.100	0.300	0.	0.	0.	0.	0.
WT	5,000	1620,000	2180,000	2430,000	3630,000	2430,000	0.	0.	0.	0.
X1	650,000	19,000	1190,000	1210,000	0.	0.	0.	0.	0.	0.
GR	130,000	0.	129,000	230,000	128,000	555,000	126,000	585,000	124,000	1165,000
GR	128,000	1170,000	129,200	1175,000	121,700	1180,000	121,400	1190,000	120,300	1192,000
GR	116,900	1200,000	120,400	1208,000	121,800	1210,000	121,800	1250,000	122,400	1600,000
GR	124,000	1700,000	125,000	1775,000	126,000	1920,000	128,000	2040,000	0.	0.
X1	1640,000	21,000	1034,000	1066,000	990,000	990,000	990,000	0.	0.	0.
GR	130,200	0.	132,000	125,000	133,400	450,000	132,000	665,000	130,000	750,000
GR	126,000	825,000	128,100	900,000	126,700	950,000	125,200	980,000	132,700	1000,000
GR	124,100	1020,000	123,600	1034,000	120,300	1039,000	117,800	1050,000	120,400	1061,000
GR	123,700	1066,000	123,900	1100,000	123,800	1150,000	126,000	1335,000	130,000	1440,000
GR	134,000	1900,000	0.	0.	0.	0.	0.	0.	0.	0.
X1	1710,000	0.	0.	0.	70,000	70,000	70,000	0.	0.	0.
SR	1,250	1,500	3,000	650,000	11,000	1,000	80,000	0.	0.	0.
X1	1770,000	19,000	1034,000	1069,000	60,000	60,000	60,000	0.	0.	0.
A2	0.	0.	1,000	125,500	129,000	0.	0.	0.	0.	0.
GR	130,000	0.	132,000	100,000	134,000	310,000	134,000	605,000	132,000	695,000
GR	130,000	800,000	129,100	900,000	127,500	950,000	125,100	1000,000	124,200	1034,000
GR	116,300	1050,000	124,900	1069,000	122,300	1100,000	123,100	1150,000	125,200	1200,000
GR	126,000	1370,000	128,000	1405,000	130,000	1420,000	130,500	1950,000	0.	0.
X1	1840,000	0.	0.	0.	70,000	70,000	70,000	0.	0.	0.
X1	2300,000	19,000	838,000	862,000	460,000	460,000	460,000	0.	0.	0.
GR	130,000	0.	132,000	140,000	132,000	280,000	130,000	450,000	128,000	470,000



0.000291 10.48 170. 70. 1.64 170. 0.61 170. 0.120 170. 0.060 170. 0.120 170. 0.060 170. 118.30 846.58  
 0.000131 10.48 170. 70. 1.64 170. 0.61 170. 0.120 170. 0.060 170. 0.120 170. 0.060 170. 570.28 1416.86

\*SECNO 2300,000  
 3280 CROSS SECTION 2300,00 EXTENDED 1.68 FEET

2300,00	10,48	129,68	0,	0,	129,68	0,00	0,09	0,00	124,90
1620,	579,	225,	816,	1516,	205,	2643,	62,	23,	124,00
0,46	0,38	1,10	0,31	0,120	0,060	0,120	0,060	119,20	453,20
0,000131	460,	460,	460,	2	0	0	0,	1366,80	1820,00

\*SECNO 2920,000

3265 DIVIDED FLOW

2920,00	9,03	129,83	0,	0,	129,89	0,06	0,19	0,02	127,30
1620,	882,	602,	136,	900,	194,	166,	102,	36,	126,70
0,56	0,98	3,11	0,82	0,120	0,060	0,120	0,060	120,80	271,33
0,001402	620,	620,	620,	1	0	0	0,	584,16	1154,40

T1 LUMBERTON NC IVEY BRANCH  
 T2 FLOOD INSURANCE STUDY  
 T3 50-YEAR Q IVEY BRANCH

J1 ICHECK ING NJNV IDIR STRT METRIC HVINS Q WSEL FO  
 0, 3, 0, 0, 0, 0, 0, 0, 0, 124,580 0,

J2 NPROF IPLOT PRFVS XSECV XSECH FN ALLDC IBW CHNIM ITRACE  
 2,000 0, -1,000 5,000 500,000 0, 0, 0, 0, 0,

2180.	264.	612.	1304.	441.	293.	1660.	17.	16.	124.90
0.14	0.60	2.09	0.79	0.120	0.060	0.120	0.060	118.30	820.23
0.000453	70.	70.	70.	2	0	0	0.	598.41	1418.63

\*SECNO 2300,000  
 3280 CROSS SECTION 2300.00 EXTENDED 1.97 FEET

2300.00	10.77	129.97	0.	0.	129.97	0.01	0.13	0.00	124.90
2180.	768.	284.	1128.	1627.	212.	2918.	75.	26.	124.00
0.38	0.47	1.34	0.39	0.120	0.060	0.120	0.060	119.20	450.34
0.000186	460.	460.	460.	2	0	0	0.	1369.66	1820.00

\*SECNO 2920,000  
 3265 DIVIDED FLOW  
 3260 CROSS SECTION 2920.00 EXTENDED 0.17 FEET

2920.00	9.38	130.16	0.	0.	130.26	0.09	0.27	0.02	127.30
2180.	1210.	750.	220.	1017.	203.	292.	119.	42.	126.70
0.46	1.19	3.69	0.75	0.120	0.060	0.120	0.060	120.80	208.60
0.001845	620.	620.	620.	1	0	0	0.	821.81	1220.00

T1 LUMBERTON NC IVEY BRANCH  
 T2 FLOOD INSURANCE STUDY  
 T3 100-YEAR Q IVEY BRANCH

J1 ICHECK INQ NINV IDIR STRT METRIC HVINS N WSEL FD  
 0. 4. 0. 0. 0. 0. 0. 0. 0. 124.850 0.

J2 NPROF IPLOT PRFVS XSECV XSECH FN ALLOC IBW CHNIM ITRACE  
 3.000 0. -1.000 5.000 500.000 0. 0. 0. 0. 0.

2430.	300.	675.	1455.	464.	297.	1696.	41.	17.	124.90
0.14	0.65	2.27	0.86	0.120	0.060	0.120	0.060	118.30	808.86
0.000528	70.	70.	70.	2	0	0	0.	610.54	1419.40

\*SECNO 2300.000

3265 DIVIDED FLOW  
 3280 CROSS SECTION 2300.00 EXTENDED 2.09 FEET

2300.00	10.89	130.09	0.	0.	130.10	0.01	0.14	0.00	124.90
2430.	851.	308.	1270.	1675.	215.	3037.	80.	27.	124.00
0.36	0.51	1.44	0.42	0.120	0.060	0.120	0.060	119.20	0.
0.000209	460.	460.	460.	2	0	0	0.	1384.02	1820.00

\*SECNO 2920.000

3265 DIVIDED FLOW  
 3280 CROSS SECTION 2920.00 EXTENDED 0.32 FEET

2920.00	9.53	130.33	0.	0.	130.42	0.09	0.30	0.03	127.30
2430.	1353.	805.	272.	1076.	208.	356.	126.	44.	126.70
0.44	1.26	3.88	0.76	0.120	0.060	0.120	0.060	120.80	159.38
0.001988	620.	620.	620.	0	0	0	0.	888.51	1220.00

T1 LUMBERION INC IVEY BRANCH  
 T2 FLOOD INSURANCE STUDY  
 T3 500-YEAR C IVEY BRANCH

J1	ICHECK	INQ	NINQ	IDIR	STRT	METRIC	HVINS	W	WSEL	FG
	0.	5.	0.	0.	0.	0.	0.	0.	126.820	0.
J2	MPPOF	IPLOT	PRFVS	XSECV	XSECH	FM	ALLDC	IRW	CHN14	ITRACE
	15.000	0.	-1.000	5.000	500.000	0.	0.	0.	0.	0.

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HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977

ERROR CORR = 01

MODIFICATION = 50,51,52

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

10-YEAR D IVEY BRA  
SUMMARY PRINTOUT

SECTNO	CWSEL	DIFWSP	ELMIN	K*CHSL	KRATIO	XLCH
* 650,000	123.23	0.	116.90	0.	0.	0.
650,000	124.58	0.	116.90	0.	0.	0.
650,000	124.85	0.	116.90	0.	0.	0.
650,000	126.82	1.97	116.90	0.	0.	0.
1640,000	127.32	0.	117.80	0.91	3.61	990.00
1640,000	127.53	0.	117.80	0.91	1.36	990.00
1640,000	127.73	0.	117.80	0.91	1.24	990.00
1640,000	128.29	0.56	117.80	0.91	0.52	990.00
1710,000	127.43	0.	117.80	0.	1.05	70.00
1710,000	127.70	0.	117.80	0.	1.07	70.00
1710,000	127.91	0.	117.80	0.	1.07	70.00
1710,000	128.56	0.65	117.80	0.	1.10	70.00
* 1770,000	129.56	0.	118.30	8.33	2.16	60.00
* 1770,000	129.79	0.	118.30	8.33	2.07	60.00
* 1770,000	129.86	0.	118.30	8.33	1.97	60.00
1770,000	130.26	0.38	118.30	8.33	1.73	60.00
1840,000	129.58	0.	118.30	0.	1.00	70.00
1840,000	129.62	0.	118.30	0.	1.01	70.00
1840,000	129.92	0.	118.30	0.	1.01	70.00
1840,000	130.33	0.41	118.30	0.	1.02	70.00
2300,000	129.68	0.	119.20	1.96	1.49	460.00
2300,000	129.97	0.	119.20	1.96	1.56	460.00
2300,000	130.09	0.	119.20	1.96	1.59	460.00
2300,000	130.60	0.51	119.20	1.96	1.70	460.00
2920,000	129.63	0.	120.80	2.58	0.31	620.00
2920,000	130.18	0.	120.80	2.58	0.32	620.00
2920,000	130.33	0.	120.80	2.58	0.32	620.00
2920,000	130.96	0.63	120.80	2.58	0.36	620.00

10-YEAR Q IVEY / RA  
SUMMARY PRINTOUT

SECNO	CWSEL	DIFWSP	DIFWSX	ELTRD	ELLC	AREA
* 650,000	123.23	0.	0.	0.	0.	573.60
650,000	124.58	0.	0.	0.	0.	1321.57
650,000	124.85	0.	0.	0.	0.	1533.22
650,000	126.82	1.97	0.	0.	0.	3881.92
1640,000	127.32	0.	4.09	0.	0.	1113.32
1640,000	127.53	0.	2.95	0.	0.	1206.78
1640,000	127.73	0.	2.88	0.	0.	1290.53
1640,000	128.29	0.56	1.47	0.	0.	1570.67
1710,000	127.43	0.	0.11	0.	0.	1161.49
1710,000	127.70	0.	0.17	0.	0.	1276.60
1710,000	127.91	0.	0.18	0.	0.	1369.11
1710,000	129.56	0.65	0.26	0.	0.	1717.98
* 1770,000	129.56	0.	2.13	129.00	125.50	2248.81
* 1770,000	129.79	0.	2.08	129.00	125.50	2375.11
* 1770,000	129.88	0.	1.97	129.00	125.50	2433.20
1770,000	130.26	0.38	1.70	129.00	125.50	2705.41
1840,000	129.58	0.	0.02	0.	0.	2255.92
1840,000	129.82	0.	0.03	0.	0.	2394.50
1840,000	129.92	0.	0.04	0.	0.	2456.34
1840,000	130.33	0.41	0.07	0.	0.	2770.66
2300,000	129.68	0.	0.10	0.	0.	4364.08
2300,000	129.97	0.	0.15	0.	0.	4755.93
2300,000	130.09	0.	0.17	0.	0.	4926.64
2300,000	130.60	0.51	0.28	0.	0.	5658.26
2920,000	129.83	0.	0.15	0.	0.	1258.73
2920,000	130.16	0.	0.21	0.	0.	1512.40
2920,000	130.33	0.	0.24	0.	0.	1639.53
2920,000	130.96	0.63	0.35	0.	0.	2295.30



10-YEAR Q IVEY BRA  
SUMMARY PRINTOUT

SECNO	CWSCL	Q	QLOB	VLOB	QCH	VCH	QROB	VROR	DEPTH
* 650,000	123.23	1620.00	41.85	2.38	689.87	8.35	888.28	1.88	6.33

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 MEC2 RELEASE DATED NOV 76 UPDATED FEB 1977  
 ERROR CORR = 01  
 MODIFICATION = 50,51,52  
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NOTE - ASTERISK (\*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

10-YEAR Q IVEY BRA  
SUMMARY PRINTOUT

SECNO	CWSCL	DIPWSP	ELMIN	K*CHSL	KRATIO	XLCH
* 650,000	123.23	0.	116.90	0.	0.	0.
650,000	124.58	0.	116.90	0.	0.	0.
650,000	124.85	0.	116.90	0.	0.	0.
650,000	126.82	1.97	116.90	0.	0.	0.
1640,000	127.32	0.	117.80	0.91	3.61	990.00
1640,000	127.53	0.	117.80	0.91	1.36	990.00
1640,000	127.73	0.	117.80	0.91	1.24	990.00
1640,000	128.22	0.56	117.80	0.91	0.52	990.00
1710,000	127.43	0.	117.80	0.	1.05	70.00
1710,000	127.70	0.	117.80	0.	1.07	70.00
1710,000	127.91	0.	117.80	0.	1.07	70.00
1710,000	128.56	0.65	117.80	0.	1.10	70.00
* 1770,000	129.56	0.	118.30	8.33	2.16	60.00
* 1770,000	129.79	0.	118.30	8.33	2.07	60.00
* 1770,000	129.88	0.	118.30	8.33	1.97	60.00
1770,000	130.26	0.38	118.30	8.33	1.73	60.00
1840,000	129.58	0.	118.30	0.	1.00	70.00
1840,000	129.82	0.	118.30	0.	1.01	70.00
1840,000	129.92	0.	118.30	0.	1.01	70.00
1840,000	130.33	0.41	118.30	0.	1.02	70.00
2300,000	129.65	0.	119.20	1.96	1.49	460.00
2300,000	129.97	0.	119.20	1.96	1.56	460.00
2300,000	130.09	0.	119.20	1.96	1.59	460.00
2300,000	130.60	0.51	119.20	1.96	1.70	460.00
2920,000	129.83	0.	120.80	2.58	0.31	620.00
2920,000	130.18	0.	120.80	2.58	0.32	620.00
2920,000	130.33	0.	120.80	2.58	0.32	620.00
2920,000	130.96	0.63	120.80	2.58	0.36	620.00

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10-YEAR Q IVEY BRA  
SUMMARY PRINTOUT

SECNO	CWSEL	DIFWSP	DIFWSX	ELTRD	ELLC	AREA
* 650,000	123.23	0.	0.	0.	0.	573.60
650,000	124.58	0.	0.	0.	0.	1321.57
650,000	124.85	0.	0.	0.	0.	1533.22
650,000	126.82	1.97	0.	0.	0.	3881.92
1640,000	127.32	0.	4.09	0.	0.	1113.32
1640,000	127.53	0.	2.95	0.	0.	1206.78
1640,000	127.73	0.	2.88	0.	0.	1290.53
1640,000	128.29	0.56	1.47	0.	0.	1570.67
1710,000	127.43	0.	0.11	0.	0.	1161.49
1710,000	127.70	0.	0.17	0.	0.	1276.60
1710,000	127.91	0.	0.18	0.	0.	1369.11
1710,000	128.56	0.65	0.26	0.	0.	1717.98
* 1770,000	129.56	0.	2.13	129.00	125.50	2248.81
* 1770,000	129.79	0.	2.08	129.00	125.50	2375.11
* 1770,000	129.88	0.	1.97	129.00	125.50	2433.20
1770,000	130.26	0.38	1.70	129.00	125.50	2705.41
1840,000	129.58	0.	0.02	0.	0.	2255.92
1840,000	129.82	0.	0.03	0.	0.	2394.50
1840,000	129.92	0.	0.04	0.	0.	2456.34
1840,000	130.33	0.41	0.07	0.	0.	2770.66
2300,000	129.68	0.	0.10	0.	0.	4364.08
2300,000	129.97	0.	0.15	0.	0.	4755.93
2300,000	130.09	0.	0.17	0.	0.	4926.64
2300,000	130.60	0.51	0.28	0.	0.	5658.26
2920,000	129.83	0.	0.15	0.	0.	1258.73
2920,000	130.18	0.	0.21	0.	0.	1512.44
2920,000	130.33	0.	0.24	0.	0.	1639.53
2920,000	130.96	0.63	0.35	0.	0.	2295.30

10-YEAR Q IVEY BRA  
SUMMARY PRINTOUT

SECNO	CWSEL	Q	QLOB	VLOB	QCH	VCH	QROB	VROB	DEPTH
* 650,000	123.23	1620.00	41.85	2.38	689.87	8.35	888.28	1.88	6.33
650,000	124.58	2180.00	70.15	0.85	512.55	4.67	1597.30	1.41	7.68
650,000	124.85	2430.00	102.39	0.72	521.58	4.53	1806.03	1.41	7.95
650,000	126.82	3630.00	668.30	0.59	430.28	2.79	2531.41	0.97	9.92
1640,000	127.32	1620.00	89.85	0.78	808.96	3.45	721.19	0.94	9.52
1640,000	127.53	2180.00	130.93	0.98	1042.11	4.31	1006.96	1.21	9.73
1640,000	127.73	2430.00	155.86	1.03	1120.09	4.52	1154.05	1.29	9.93
1640,000	128.29	3630.00	284.79	1.23	1511.03	5.68	1834.18	1.71	10.49
1710,000	127.43	1620.00	93.70	0.76	790.63	3.32	735.67	0.92	9.63
1710,000	127.79	2180.00	138.35	0.94	1010.79	4.10	1030.86	1.17	9.90
1710,000	127.91	2430.00	165.07	0.98	1084.70	4.28	1180.23	1.25	10.11
1710,000	128.56	3630.00	318.28	1.12	1442.60	5.26	1869.12	1.61	10.76
* 1770,000	129.56	1620.00	185.74	0.48	468.52	1.65	964.73	0.61	11.26
* 1770,000	129.79	2180.00	262.28	0.60	614.70	2.10	1303.02	0.79	11.49
* 1770,000	129.88	2430.00	298.02	0.65	677.64	2.29	1454.34	0.86	11.58
1770,000	130.26	3630.00	481.30	0.88	968.88	3.14	2179.82	1.18	11.96
1840,000	129.58	1620.00	187.20	0.48	467.83	1.64	964.97	0.61	11.28
1840,000	129.82	2180.00	263.97	0.60	612.41	2.09	1303.62	0.79	11.52
1840,000	129.92	2430.00	300.28	0.65	674.72	2.27	1455.00	0.86	11.62
1840,000	130.33	3630.00	487.93	0.87	960.79	3.09	2181.28	1.15	12.03
2300,000	129.68	1620.00	578.59	0.38	225.19	1.10	816.22	0.31	10.48
2300,000	129.97	2180.00	768.05	0.47	283.92	1.34	1128.04	0.39	10.77
2300,000	130.09	2430.00	851.47	0.51	308.15	1.44	1270.38	0.42	10.89
2300,000	130.60	3630.00	1248.15	0.66	415.81	1.83	1966.04	0.56	11.40
2920,000	129.83	1620.00	882.02	0.98	602.06	3.11	135.92	0.82	9.03
2920,000	130.18	2180.00	1209.65	1.19	750.03	3.69	220.32	0.75	9.38
2920,000	130.33	2430.00	1353.03	1.26	805.38	3.88	271.59	0.76	9.53
2920,000	130.96	3630.00	2027.54	1.44	1014.45	4.50	588.01	0.89	10.16

10-YEAR Q IVEY BRA  
SUMMARY PRINTOUT

SECNO	CWSEL	DIFWSP	VOL	K*XL	K*XNCH	K*XNR	TOPWID	SSTA	ENDST	.01K
* 650,000	123.23	0.	0.	120.00	60.00	120.00	472.77	1178.98	1651.75	115.68
650,000	124.58	0.	0.	120.00	60.00	120.00	734.30	996.80	1743.50	335.79
650,000	124.85	0.	0.	120.00	60.00	120.00	833.41	918.50	1763.75	398.48
650,000	126.82	1.97	0.	120.00	60.00	120.00	1388.44	572.70	1969.20	1170.60
1640,000	127.32	0.	19.17	120.00	60.00	120.00	415.00	927.82	1369.67	417.19
1640,000	127.53	0.	28.73	120.00	60.00	120.00	429.81	919.92	1375.48	457.94
1640,000	127.73	0.	32.09	120.00	60.00	120.00	442.67	913.07	1380.52	495.21
1640,000	128.29	0.56	61.96	120.00	60.00	120.00	559.56	813.80	1395.34	616.57
1710,000	127.43	0.	21.00	120.00	60.00	120.00	422.70	923.72	1372.69	438.08
1710,000	127.70	0.	30.73	120.00	60.00	120.00	440.55	914.19	1379.69	488.96
1710,000	127.91	0.	34.23	120.00	60.00	120.00	454.40	906.81	1385.12	530.79
1710,000	128.56	0.65	64.60	120.00	60.00	120.00	577.38	804.08	1402.15	679.73
* 1770,000	129.56	0.	23.35	120.00	60.00	120.00	568.80	847.96	1416.76	946.29
* 1770,000	129.79	0.	33.24	120.00	60.00	120.00	594.55	823.84	1418.39	1014.18
* 1770,000	129.88	0.	36.84	120.00	60.00	120.00	606.03	813.09	1419.12	1045.38
1770,000	130.26	0.38	67.65	120.00	60.00	120.00	921.64	0.	1695.04	1174.75
1840,000	129.58	0.	26.97	120.00	60.00	120.00	570.28	846.58	1416.86	950.12
1840,000	129.82	0.	37.07	120.00	60.00	120.00	598.41	820.23	1418.63	1024.59
1840,000	129.92	0.	40.77	120.00	60.00	120.00	610.54	808.86	1419.40	1057.81
1840,000	130.33	0.41	72.05	120.00	60.00	120.00	1000.57	0.	1767.01	1199.89
2300,000	129.68	0.	61.92	120.00	60.00	120.00	1366.80	453.20	1820.00	1417.61
2300,000	129.97	0.	74.83	120.00	60.00	120.00	1369.66	450.34	1820.00	1598.70
2300,000	130.09	0.	79.76	120.00	60.00	120.00	1384.02	0.	1820.00	1680.62
2300,000	130.60	0.51	116.56	120.00	60.00	120.00	1463.66	0.	1820.00	2042.13
2920,000	129.83	0.	101.94	120.00	60.00	120.00	584.16	271.53	1154.40	432.63
2920,000	130.18	0.	119.44	120.00	60.00	120.00	821.81	208.60	1220.00	507.57
2920,000	130.33	0.	126.48	120.00	60.00	120.00	888.51	159.38	1220.00	544.98
2920,000	130.96	0.63	173.16	120.00	60.00	120.00	1123.05	0.	1220.00	741.92

SUMMARY OF ERRORS

CAUTION SECNO= 650,000 PROFILE= 1 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 1770,000 PROFILE= 1 HYDRAULIC JUMP D.S.

CAUTION SECNO= 1770,000 PROFILE= 2 HYDRAULIC JUMP D.S.

CAUTION SECNO= 1770,000 PROFILE= 3 HYDRAULIC JUMP D.S.

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 HEC2 RELEASE DATED NOV 76 UPDATED AUG 1977  
 ERROR CORR = 01,02  
 MODIFICATION = 50,51,52,53  
 \*\*\*\*\*

T1 LUMBERTON NC IVEY BRANCH  
 T2 FLOOD INSURANCE STUDY  
 T3 10-YEAR Q IVEY BRANCH

J1 ICHECK INQ NINV IDIR STRT METRIC HVINS Q WSEL FO

0. 2. 0. 0. 0. 0. 0. 0. 0. 122,000 0.

J2 NPROF I PLOT PREVS XSECV XSECH EN ALLOC TBV CHNIX ITRACE

1,000 0. -1,000 5,000 500,000 0. 0. 0. 0. 0.

J3 VARIABLE CODES FOR SUMMARY PRINTOUT

38,000 1,000 50,000 51,000 42,000 39,000 0. 38,000 21,000 22,000

53,000 54,000 4,000 0. 38,000 1,000 58,000 33,000 50,000 40,000

41,000 25,000 0. 38,000 1,000 43,000 13,000 55,000 14,000 26,000

15,000 56,000 8,000 35,000 60,000 59,000 0. 38,000 1,000 7,000

16,000 17,000 18,000 34,000 21,000 22,000 53,000 54,000 4,000 0.

NC 0,120 0,120 0,060 0,100 0,300 0. 0. 0. 0. 0.  
 WT 5,000 1620,000 2180,000 2430,000 3630,000 2430,000 0. 0. 0. 0.

X1 650,000 19,000 1190,000 1210,000 0. 0. 0. 0. 0.  
 GR 130,000 0. 129,000 230,000 128,000 555,000 126,000 585,000 124,000 1165,000  
 GR 129,000 1170,000 129,200 1175,000 121,700 1180,000 121,400 1190,000 120,300 1192,000  
 GR 116,900 1200,000 120,400 1208,000 121,800 1210,000 121,800 1250,000 122,400 1600,000  
 GR 124,000 1700,000 125,000 1775,000 126,000 1920,000 126,000 2040,000 0. 0.

X1 1640,000 21,000 1034,000 1066,000 990,000 990,000 990,000 0. 0. 0.  
 GR 130,200 0. 132,000 125,000 133,900 450,000 132,000 665,000 130,000 750,000  
 GR 128,000 825,000 128,100 900,000 126,700 950,000 125,200 980,000 132,700 1000,000  
 GR 124,100 1020,000 123,600 1034,000 120,300 1039,000 117,300 1050,000 120,400 1061,000  
 GR 123,700 1066,000 123,900 1100,000 123,800 1150,000 126,000 1335,000 130,000 1440,000  
 GR 134,000 1900,000 0. 0. 0. 0. 0. 0. 0. 0.

X1 1710,000 0. 0. 0. 70,000 70,000 70,000 0. 0. 0.  
 BB 1,250 1,500 3,000 650,000 11,000 1,000 80,000 0. 0. 0.

X1 1770,000 19,000 1034,000 1069,000 60,000 60,000 60,000 0. 0. 0.  
 X2 0. 0. 1,000 125,500 129,000 0. 0. 0. 0. 0.  
 GR 130,000 0. 132,000 100,000 134,000 410,000 134,000 605,000 132,000 695,000



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HEC2 RELEASE DATED NOV 76, UPDATED AUG 1977  
ERROR CORR = 01,02  
MODIFICATION = 50,51,52,53  
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T1 LUMBERTON NC IVEY BRANCH  
T2 FLOOD INSURANCE STUDY  
T3 50-YEAR Q IVEY BRANCH

J1 ICHECK INQ NINV IDIR STRT METRIC HVINS Q WSEL FQ

0. 3. 0. 0. 0. 0. 0. 0. 0. 0. 23,500 0.

J2 NPROF IPL07 PREVS YSECV YSEIN FN ALOC TBN CHNM ITRACE

2,000 0. -1,000 5,000 500,000 0. 0. 0. 0. 0.

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HECZ RELEASE DATED NOV 76 UPDATED AUG 1977  
ERROR CORR = 01,02  
MODIFICATION = 50,51,52,53  
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T1 LUMBERTON NC IVEY BRANCH  
T2 FLOOD INSURANCE STUDY  
T3 100-YEAR Q IVEY BRANCH

| J1 | ICHECK | INQ   | NINV   | IDIR  | STRT    | METRIC | HVINS | Q   | WSEL    | FG     |
|----|--------|-------|--------|-------|---------|--------|-------|-----|---------|--------|
|    | 0.     | 4.    | 0.     | 0.    | 0.      | 0.     | 0.    | 0.  | 125,300 | 0.     |
| J2 | NPROF  | IPL01 | PREVS  | XSECV | XSECH   | FN     | ADLOC | IBW | CHNIN   | ITRACE |
|    | 3,000  | 0.    | -1,000 | 5,000 | 500,000 | 0.     | 0.    | 0.  | 0.      | 0.     |

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HEC2 RELEASE DATED NOV 76 UPDATED AUG 1977  
ERROR CORR = 01,02  
MODIFICATION = 50,51,52,53  
\*\*\*\*\*

T1 LUMBERTON NC IVEY BRANCH  
T2 FLOOD INSURANCE STUDY  
T3 500-YEAR Q IVEY BRANCH

J1 ICHECK INQ NINV IDIR STRT METRIC HVINS Q WSEL FQ  
0. 5. 0. 0. 0. 0. 0. 0. 0. 127.600 0.

J2 NPROF IRLPT PRFVS XSECV XSECH FN ALLOC IBW CHNIM ITRACE  
15,000 0. -1,000 5,000 500,000 0. 0. 0. 0. 0.

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 HEC2 RELEASE DATED NOV 76 UPDATED AUG 1977  
 ERROR CORR = 01.02  
 MODIFICATION = 50,51,52,53  
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NOTE - ASTERISK (\*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

10-YEAR D IVEY BRN  
 SUMMARY PRINTOUT

| LINE | SECNO      | CWSEL  | DIFWSP | DIFWSX | ELMIN  | X1CH   |
|------|------------|--------|--------|--------|--------|--------|
| 14   | * 650,000  | 123.23 | 0.     | 0.     | 116.90 | 0.     |
| 15   | 650,000    | 123.50 | 0.27   | 0.     | 116.90 | 0.     |
| 16   | 650,000    | 125.30 | 1.80   | 0.     | 116.90 | 0.     |
| 17   | 650,000    | 127.60 | 2.30   | 0.     | 116.90 | 0.     |
| 19   | 1640,000   | 127.32 | 0.     | 4.09   | 117.80 | 990.00 |
| 20   | 1640,000   | 127.94 | 0.62   | 4.44   | 117.80 | 990.00 |
| 21   | 1640,000   | 127.60 | -0.34  | 2.30   | 117.80 | 990.00 |
| 22   | 1640,000   | 128.44 | 0.84   | 0.84   | 117.80 | 990.00 |
| 24   | 1710,000   | 127.43 | 0.     | 0.11   | 117.80 | 70.00  |
| 25   | 1710,000   | 128.06 | 0.63   | 0.12   | 117.80 | 70.00  |
| 26   | 1710,000   | 127.80 | -0.26  | 0.20   | 117.80 | 70.00  |
| 27   | 1710,000   | 128.67 | 0.87   | 0.23   | 117.80 | 70.00  |
| 29   | * 1770,000 | 129.56 | 0.     | 2.13   | 118.30 | 60.00  |
| 30   | * 1770,000 | 129.81 | 0.25   | 1.75   | 118.30 | 60.00  |
| 31   | * 1770,000 | 129.88 | 0.07   | 2.08   | 118.30 | 60.00  |
| 32   | 1770,000   | 130.27 | 0.39   | 1.59   | 118.30 | 60.00  |
| 34   | 1840,000   | 129.58 | 0.     | 0.02   | 118.30 | 70.00  |
| 35   | 1840,000   | 129.84 | 0.26   | 0.03   | 118.30 | 70.00  |
| 36   | 1840,000   | 129.91 | 0.07   | 0.04   | 118.30 | 70.00  |
| 37   | 1840,000   | 130.33 | 0.42   | 0.07   | 118.30 | 70.00  |
| 39   | 2300,000   | 129.68 | 0.     | 0.10   | 119.20 | 460.00 |
| 40   | 2300,000   | 129.99 | 0.31   | 0.15   | 119.20 | 460.00 |
| 41   | 2300,000   | 130.08 | 0.10   | 0.17   | 119.20 | 460.00 |
| 42   | 2300,000   | 130.61 | 0.53   | 0.28   | 119.20 | 460.00 |
| 44   | 2920,000   | 129.83 | 0.     | 0.15   | 120.80 | 620.00 |
| 45   | 2920,000   | 130.19 | 0.37   | 0.21   | 120.80 | 620.00 |
| 46   | 2920,000   | 130.32 | 0.13   | 0.24   | 120.80 | 620.00 |
| 47   | 2920,000   | 130.96 | 0.64   | 0.35   | 120.80 | 620.00 |

10-YEAR 0 IVEY BRA  
SUMMARY PRINTOUT

| LINE NO | SECNO | STCHL    | STCHR   | SSTA    | ENDST   | TOPWID  | LINE NO |
|---------|-------|----------|---------|---------|---------|---------|---------|
| 1       |       |          |         |         |         |         | 1       |
| 2       |       |          |         |         |         |         | 2       |
| 3       |       |          |         |         |         |         | 3       |
| 4       | *     | 650,000  | 1190,00 | 1210,00 | 1178,98 | 1651,94 | 4       |
| 5       |       | 650,000  | 1190,00 | 1210,00 | 1178,80 | 1668,75 | 5       |
| 6       |       | 650,000  | 1190,00 | 1210,00 | 788,00  | 1818,50 | 6       |
| 7       |       | 650,000  | 1190,00 | 1210,00 | 561,00  | 2016,00 | 7       |
| 8       |       |          |         |         |         |         | 8       |
| 9       |       | 1640,000 | 1034,00 | 1066,00 | 927,88  | 1369,63 | 9       |
| 10      |       | 1640,000 | 1034,00 | 1066,00 | 905,77  | 1385,88 | 10      |
| 11      |       | 1640,000 | 1034,00 | 1066,00 | 917,95  | 1376,93 | 11      |
| 12      |       | 1640,000 | 1034,00 | 1066,00 | 808,41  | 1399,11 | 12      |
| 13      |       |          |         |         |         |         | 13      |
| 14      |       | 1710,000 | 1034,00 | 1066,00 | 923,77  | 1372,65 | 14      |
| 15      |       | 1710,000 | 1034,00 | 1066,00 | 822,59  | 1389,18 | 15      |
| 16      |       | 1710,000 | 1034,00 | 1066,00 | 910,74  | 1382,23 | 16      |
| 17      |       | 1710,000 | 1034,00 | 1066,00 | 799,71  | 1405,20 | 17      |
| 18      |       |          |         |         |         |         | 18      |
| 19      | *     | 1770,000 | 1034,00 | 1069,00 | 847,98  | 1416,76 | 19      |
| 20      | *     | 1770,000 | 1034,00 | 1069,00 | 821,18  | 1418,57 | 20      |
| 21      | *     | 1770,000 | 1034,00 | 1069,00 | 813,85  | 1419,07 | 21      |
| 22      |       | 1770,000 | 1034,00 | 1069,00 | 0.      | 1702,23 | 22      |
| 23      |       |          |         |         |         |         | 23      |
| 24      |       | 1840,000 | 1034,00 | 1069,00 | 846,59  | 1416,86 | 24      |
| 25      |       | 1840,000 | 1034,00 | 1069,00 | 817,62  | 1418,81 | 25      |
| 26      |       | 1840,000 | 1034,00 | 1069,00 | 809,60  | 1419,35 | 26      |
| 27      |       | 1840,000 | 1034,00 | 1069,00 | 0.      | 1773,90 | 27      |
| 28      |       |          |         |         |         |         | 28      |
| 29      |       | 2300,000 | 838,00  | 862,00  | 453,20  | 1820,00 | 29      |
| 30      |       | 2300,000 | 838,00  | 862,00  | 450,13  | 1820,00 | 30      |
| 31      |       | 2300,000 | 838,00  | 862,00  | 0.      | 1820,00 | 31      |
| 32      |       | 2300,000 | 838,00  | 862,00  | 0.      | 1820,00 | 32      |
| 33      |       |          |         |         |         |         | 33      |
| 34      |       | 2920,000 | 586,00  | 614,00  | 271,34  | 1154,37 | 34      |
| 35      |       | 2920,000 | 586,00  | 614,00  | 202,69  | 1220,00 | 35      |
| 36      |       | 2920,000 | 586,00  | 614,00  | 161,02  | 1220,00 | 36      |
| 37      |       | 2920,000 | 586,00  | 614,00  | 0.      | 1220,00 | 37      |
| 38      |       |          |         |         |         |         | 38      |
| 39      |       |          |         |         |         |         | 39      |
| 40      |       |          |         |         |         |         | 40      |
| 41      |       |          |         |         |         |         | 41      |
| 42      |       |          |         |         |         |         | 42      |
| 43      |       |          |         |         |         |         | 43      |
| 44      |       |          |         |         |         |         | 44      |
| 45      |       |          |         |         |         |         | 45      |
| 46      |       |          |         |         |         |         | 46      |
| 47      |       |          |         |         |         |         | 47      |
| 48      |       |          |         |         |         |         | 48      |
| 49      |       |          |         |         |         |         | 49      |
| 50      |       |          |         |         |         |         | 50      |
| 51      |       |          |         |         |         |         | 51      |
| 52      |       |          |         |         |         |         | 52      |
| 53      |       |          |         |         |         |         | 53      |
| 54      |       |          |         |         |         |         | 54      |
| 55      |       |          |         |         |         |         | 55      |
| 56      |       |          |         |         |         |         | 56      |
| 57      |       |          |         |         |         |         | 57      |

10-YEAR Q IVEY BRA  
SUMMARY PRINTOUT

| 1     | 2          | 3      | 4     | 5      | 6     | 7      | 8       | 9       | 10 | 11 | 12 |
|-------|------------|--------|-------|--------|-------|--------|---------|---------|----|----|----|
| SECNO | CHSEL      | KRATIO | KCHSL | DIFWSP | ELTRD | ELLCD  | AREA    |         |    |    |    |
| 4     | * 650,000  | 123.23 | 0.    | 0.     | 0.    | 0.     | 575.03  |         |    |    |    |
| 5     | 650,000    | 123.50 | 0.    | 0.     | 0.27  | 0.     | 704.49  |         |    |    |    |
| 6     | 650,000    | 125.30 | 0.    | 0.     | 1.80  | 0.     | 1908.55 |         |    |    |    |
| 7     | 650,000    | 127.60 | 0.    | 0.     | 2.30  | 0.     | 4988.30 |         |    |    |    |
| 9     | 1640,000   | 127.32 | 3.59  | 0.91   | 0.    | 0.     | 1112.67 |         |    |    |    |
| 10    | 1640,000   | 127.94 | 3.59  | 0.91   | 0.62  | 0.     | 1382.33 |         |    |    |    |
| 11    | 1640,000   | 127.60 | 0.90  | 0.91   | -0.34 | 0.     | 1230.61 |         |    |    |    |
| 12    | 1640,000   | 128.44 | 0.39  | 0.91   | 0.84  | 0.     | 1651.86 |         |    |    |    |
| 14    | 1710,000   | 127.43 | 1.05  | 0.     | 0.    | 0.     | 1160.85 |         |    |    |    |
| 15    | 1710,000   | 128.06 | 1.05  | 0.     | 0.63  | 0.     | 1441.84 |         |    |    |    |
| 16    | 1710,000   | 127.80 | 1.08  | 0.     | -0.26 | 0.     | 1319.51 |         |    |    |    |
| 17    | 1710,000   | 128.67 | 1.09  | 0.     | 0.87  | 0.     | 1785.73 |         |    |    |    |
| 19    | * 1770,000 | 129.56 | 2.16  | 8.33   | 0.    | 129.00 | 125.50  | 2248.75 |    |    |    |
| 20    | * 1770,000 | 129.81 | 1.81  | 8.33   | 0.25  | 129.00 | 125.50  | 2389.36 |    |    |    |
| 21    | * 1770,000 | 129.88 | 2.05  | 8.33   | 0.07  | 129.00 | 125.50  | 2429.05 |    |    |    |
| 22    | 1770,000   | 130.27 | 1.66  | 8.33   | 0.39  | 129.00 | 125.50  | 2711.68 |    |    |    |
| 24    | 1840,000   | 129.58 | 1.00  | 0.     | 0.    | 0.     | 2255.86 |         |    |    |    |
| 25    | 1840,000   | 129.84 | 1.01  | 0.     | 0.26  | 0.     | 2408.55 |         |    |    |    |
| 26    | 1840,000   | 129.91 | 1.01  | 0.     | 0.07  | 0.     | 2452.26 |         |    |    |    |
| 27    | 1840,000   | 130.33 | 1.02  | 0.     | 0.42  | 0.     | 2777.18 |         |    |    |    |
| 29    | 2300,000   | 129.68 | 1.49  | 1.96   | 0.    | 0.     | 4363.94 |         |    |    |    |
| 30    | 2300,000   | 129.99 | 1.56  | 1.96   | 0.31  | 0.     | 4784.89 |         |    |    |    |
| 31    | 2300,000   | 130.08 | 1.59  | 1.96   | 0.10  | 0.     | 4918.42 |         |    |    |    |
| 32    | 2300,000   | 130.61 | 1.70  | 1.96   | 0.53  | 0.     | 5666.15 |         |    |    |    |
| 34    | 2920,000   | 129.83 | 0.31  | 2.58   | 0.    | 0.     | 1258.67 |         |    |    |    |
| 35    | 2920,000   | 130.19 | 0.32  | 2.58   | 0.37  | 0.     | 1527.18 |         |    |    |    |
| 36    | 2920,000   | 130.32 | 0.32  | 2.58   | 0.13  | 0.     | 1635.13 |         |    |    |    |
| 37    | 2920,000   | 130.96 | 0.36  | 2.58   | 0.64  | 0.     | 2299.83 |         |    |    |    |

10-YEAR Q IVEY BRA  
SUMMARY PRINTOUT

| 1  | 2          | 3      | 4       | 5       | 6    | 7       | 8    | 9       | 10   | 11    | 12    | 13    | 14    | 15 | 16 | 17 | 18 |
|----|------------|--------|---------|---------|------|---------|------|---------|------|-------|-------|-------|-------|----|----|----|----|
| 1  | SECNO      | CWSEL  | Q       | QLOB    | VLOB | QCH     | VCH  | GROR    | VROB | DEPTH | QLOB% | QCH%  | GROR% |    |    |    |    |
| 4  | * 650,000  | 123.23 | 1620.00 | 41.85   | 2.38 | 688.62  | 8.32 | 889.53  | 1.87 | 6.33  | 2.58  | 42.51 | 54.91 |    |    |    |    |
| 5  | 650,000    | 123.50 | 2180.00 | 56.09   | 2.73 | 797.69  | 9.05 | 1326.22 | 2.23 | 6.60  | 2.57  | 36.59 | 60.84 |    |    |    |    |
| 6  | 650,000    | 125.30 | 2430.00 | 161.04  | 0.56 | 451.40  | 3.64 | 1817.56 | 1.18 | 8.40  | 6.63  | 18.58 | 74.80 |    |    |    |    |
| 7  | 650,000    | 127.60 | 3630.00 | 837.94  | 0.52 | 358.55  | 2.11 | 2433.51 | 0.76 | 10.70 | 23.08 | 9.88  | 67.04 |    |    |    |    |
| 8  |            |        |         |         |      |         |      |         |      |       |       |       |       |    |    |    |    |
| 9  | 1640,000   | 127.32 | 1620.00 | 89.86   | 0.78 | 809.21  | 3.45 | 720.98  | 0.94 | 9.52  | 5.54  | 49.95 | 44.51 |    |    |    |    |
| 10 | 1640,000   | 127.94 | 2180.00 | 149.47  | 0.87 | 968.04  | 3.81 | 1062.46 | 1.11 | 10.14 | 6.86  | 44.41 | 48.74 |    |    |    |    |
| 11 | 1640,000   | 127.60 | 2430.00 | 148.78  | 1.08 | 1149.36 | 4.72 | 1131.86 | 1.33 | 9.80  | 6.12  | 47.30 | 46.58 |    |    |    |    |
| 12 | 1640,000   | 128.44 | 3630.00 | 303.00  | 1.16 | 1472.48 | 5.44 | 1854.51 | 1.65 | 10.64 | 8.35  | 40.58 | 51.09 |    |    |    |    |
| 13 |            |        |         |         |      |         |      |         |      |       |       |       |       |    |    |    |    |
| 14 | 1710,000   | 127.43 | 1620.00 | 93.65   | 0.76 | 790.87  | 3.32 | 735.49  | 0.92 | 9.63  | 5.78  | 48.82 | 45.40 |    |    |    |    |
| 15 | 1710,000   | 128.06 | 2180.00 | 155.56  | 0.83 | 946.67  | 3.66 | 1077.78 | 1.08 | 10.26 | 7.14  | 43.43 | 49.44 |    |    |    |    |
| 16 | 1710,000   | 127.80 | 2430.00 | 159.27  | 1.01 | 1106.66 | 4.43 | 1164.07 | 1.28 | 10.00 | 6.55  | 45.54 | 47.90 |    |    |    |    |
| 17 | 1710,000   | 128.67 | 3630.00 | 334.12  | 1.08 | 1413.37 | 5.09 | 1882.51 | 1.57 | 10.87 | 9.20  | 38.94 | 51.86 |    |    |    |    |
| 18 |            |        |         |         |      |         |      |         |      |       |       |       |       |    |    |    |    |
| 19 | * 1770,000 | 129.56 | 1620.00 | 186.74  | 0.48 | 468.53  | 1.65 | 964.73  | 0.61 | 11.26 | 11.53 | 28.92 | 59.55 |    |    |    |    |
| 20 | * 1770,000 | 129.81 | 2180.00 | 263.52  | 0.60 | 613.01  | 2.09 | 1303.46 | 0.79 | 11.51 | 12.09 | 28.12 | 59.79 |    |    |    |    |
| 21 | * 1770,000 | 129.88 | 2430.00 | 297.61  | 0.66 | 678.17  | 2.30 | 1454.21 | 0.87 | 11.58 | 12.25 | 27.91 | 59.84 |    |    |    |    |
| 22 | 1770,000   | 130.27 | 3630.00 | 481.96  | 0.88 | 968.08  | 3.13 | 2179.95 | 1.18 | 11.97 | 13.28 | 26.67 | 60.05 |    |    |    |    |
| 23 |            |        |         |         |      |         |      |         |      |       |       |       |       |    |    |    |    |
| 24 | 1840,000   | 129.58 | 1620.00 | 187.20  | 0.48 | 467.84  | 1.64 | 964.97  | 0.61 | 11.28 | 11.56 | 28.88 | 59.57 |    |    |    |    |
| 25 | 1840,000   | 129.84 | 2180.00 | 265.20  | 0.59 | 610.77  | 2.08 | 1304.03 | 0.78 | 11.54 | 12.17 | 28.02 | 59.82 |    |    |    |    |
| 26 | 1840,000   | 129.91 | 2430.00 | 299.68  | 0.65 | 675.23  | 2.28 | 1454.89 | 0.86 | 11.61 | 12.34 | 27.79 | 59.87 |    |    |    |    |
| 27 | 1840,000   | 130.33 | 3630.00 | 488.56  | 0.86 | 960.01  | 3.08 | 2181.43 | 1.15 | 12.03 | 13.46 | 26.45 | 60.09 |    |    |    |    |
| 28 |            |        |         |         |      |         |      |         |      |       |       |       |       |    |    |    |    |
| 29 | 2300,000   | 129.68 | 1620.00 | 578.59  | 0.38 | 225.20  | 1.10 | 816.21  | 0.31 | 10.48 | 35.72 | 13.90 | 50.38 |    |    |    |    |
| 30 | 2300,000   | 129.99 | 2180.00 | 767.31  | 0.47 | 282.61  | 1.33 | 1130.08 | 0.38 | 10.79 | 35.20 | 12.96 | 51.84 |    |    |    |    |
| 31 | 2300,000   | 130.08 | 2430.00 | 851.69  | 0.51 | 308.53  | 1.44 | 1269.78 | 0.42 | 10.88 | 35.05 | 12.70 | 52.25 |    |    |    |    |
| 32 | 2300,000   | 130.61 | 3630.00 | 1247.95 | 0.66 | 415.39  | 1.63 | 1966.66 | 0.56 | 11.41 | 34.38 | 11.44 | 54.18 |    |    |    |    |
| 33 |            |        |         |         |      |         |      |         |      |       |       |       |       |    |    |    |    |
| 34 | 2920,000   | 129.83 | 1620.00 | 882.02  | 0.98 | 602.07  | 3.11 | 135.91  | 0.82 | 9.03  | 54.45 | 37.16 | 8.39  |    |    |    |    |
| 35 | 2920,000   | 130.19 | 2180.00 | 210.29  | 1.18 | 746.72  | 3.66 | 222.99  | 0.74 | 9.39  | 55.52 | 34.25 | 10.23 |    |    |    |    |
| 36 | 2920,000   | 130.32 | 2430.00 | 1352.91 | 1.26 | 806.40  | 3.89 | 270.69  | 0.77 | 9.52  | 55.68 | 33.19 | 11.14 |    |    |    |    |
| 37 | 2920,000   | 130.96 | 3630.00 | 2027.56 | 1.43 | 1013.31 | 4.49 | 589.13  | 0.89 | 10.16 | 55.86 | 27.91 | 16.23 |    |    |    |    |
| 38 |            |        |         |         |      |         |      |         |      |       |       |       |       |    |    |    |    |
| 39 |            |        |         |         |      |         |      |         |      |       |       |       |       |    |    |    |    |
| 40 |            |        |         |         |      |         |      |         |      |       |       |       |       |    |    |    |    |
| 41 |            |        |         |         |      |         |      |         |      |       |       |       |       |    |    |    |    |
| 42 |            |        |         |         |      |         |      |         |      |       |       |       |       |    |    |    |    |
| 43 |            |        |         |         |      |         |      |         |      |       |       |       |       |    |    |    |    |
| 44 |            |        |         |         |      |         |      |         |      |       |       |       |       |    |    |    |    |
| 45 |            |        |         |         |      |         |      |         |      |       |       |       |       |    |    |    |    |
| 46 |            |        |         |         |      |         |      |         |      |       |       |       |       |    |    |    |    |
| 47 |            |        |         |         |      |         |      |         |      |       |       |       |       |    |    |    |    |
| 48 |            |        |         |         |      |         |      |         |      |       |       |       |       |    |    |    |    |
| 49 |            |        |         |         |      |         |      |         |      |       |       |       |       |    |    |    |    |
| 50 |            |        |         |         |      |         |      |         |      |       |       |       |       |    |    |    |    |
| 51 |            |        |         |         |      |         |      |         |      |       |       |       |       |    |    |    |    |
| 52 |            |        |         |         |      |         |      |         |      |       |       |       |       |    |    |    |    |
| 53 |            |        |         |         |      |         |      |         |      |       |       |       |       |    |    |    |    |
| 54 |            |        |         |         |      |         |      |         |      |       |       |       |       |    |    |    |    |
| 55 |            |        |         |         |      |         |      |         |      |       |       |       |       |    |    |    |    |
| 56 |            |        |         |         |      |         |      |         |      |       |       |       |       |    |    |    |    |
| 57 |            |        |         |         |      |         |      |         |      |       |       |       |       |    |    |    |    |

10-YEAR O IVEY BRA  
SUMMARY PRINTOUT

| 1  | SECNO | CWSEL    | VOL    | K*XL   | K*LNCH | K*XR  | .01K   | STCHL   | STCHR   | SSTA    | ENDST   | TOPWID  | 1       |    |
|----|-------|----------|--------|--------|--------|-------|--------|---------|---------|---------|---------|---------|---------|----|
| 2  |       |          |        |        |        |       |        |         |         |         |         |         | 2       |    |
| 3  |       |          |        |        |        |       |        |         |         |         |         |         | 3       |    |
| 4  | *     | 650,000  | 123.23 | 0.     | 120,00 | 60,00 | 120,00 | 116.03  | 1190,00 | 1210,00 | 1178,98 | 1651,94 | 472,96  | 4  |
| 5  |       | 650,000  | 123.50 | 0.     | 120,00 | 60,00 | 120,00 | 149.71  | 1190,00 | 1210,00 | 1178,80 | 1668,75 | 489,95  | 5  |
| 6  |       | 650,000  | 125.30 | 0.     | 120,00 | 60,00 | 120,00 | 521.99  | 1190,00 | 1210,00 | 788,00  | 1818,50 | 1019,53 | 6  |
| 7  |       | 650,000  | 127.60 | 0.     | 120,00 | 60,00 | 120,00 | 1660,35 | 1190,00 | 1210,00 | 561,00  | 2016,00 | 1448,43 | 7  |
| 8  |       | 1640,000 | 127.32 | 19.18  | 120,00 | 60,00 | 120,00 | 416.91  | 1034,00 | 1066,00 | 927,88  | 1369,63 | 414,89  | 8  |
| 9  |       | 1640,000 | 127.94 | 23.71  | 120,00 | 60,00 | 120,00 | 536.83  | 1034,00 | 1066,00 | 905,77  | 1385,88 | 456,34  | 9  |
| 10 |       | 1640,000 | 127.60 | 36.13  | 120,00 | 60,00 | 120,00 | 468.47  | 1034,00 | 1066,00 | 917,95  | 1376,93 | 433,51  | 10 |
| 11 |       | 1640,000 | 128.44 | 75.46  | 120,00 | 60,00 | 120,00 | 651.07  | 1034,00 | 1066,00 | 808,41  | 1399,11 | 569,45  | 11 |
| 12 |       | 1710,000 | 127.43 | 21.01  | 120,00 | 60,00 | 120,00 | 437.80  | 1034,00 | 1066,00 | 923,77  | 1372,65 | 422,60  | 12 |
| 13 |       | 1710,000 | 128.06 | 25.98  | 120,00 | 60,00 | 120,00 | 563.50  | 1034,00 | 1066,00 | 822,59  | 1389,18 | 515,27  | 13 |
| 14 |       | 1710,000 | 127.80 | 38.18  | 120,00 | 60,00 | 120,00 | 508.26  | 1034,00 | 1066,00 | 910,74  | 1382,23 | 447,03  | 14 |
| 15 |       | 1710,000 | 128.67 | 78.22  | 120,00 | 60,00 | 120,00 | 709.59  | 1034,00 | 1066,00 | 799,71  | 1405,20 | 585,39  | 15 |
| 16 | *     | 1770,000 | 129.56 | 23.35  | 120,00 | 60,00 | 120,00 | 946.26  | 1034,00 | 1069,00 | 847,98  | 1416,76 | 568,78  | 16 |
| 17 | *     | 1770,000 | 129.81 | 28.62  | 120,00 | 60,00 | 120,00 | 1021.80 | 1034,00 | 1069,00 | 821,18  | 1418,57 | 597,39  | 17 |
| 18 | *     | 1770,000 | 129.88 | 40.76  | 120,00 | 60,00 | 120,00 | 1043.15 | 1034,00 | 1069,00 | 813,85  | 1419,07 | 605,22  | 18 |
| 19 |       | 1770,000 | 130.27 | 81.32  | 120,00 | 60,00 | 120,00 | 1177.23 | 1034,00 | 1069,00 | 0.      | 1702,23 | 929,52  | 19 |
| 20 |       | 1840,000 | 129.58 | 26.97  | 120,00 | 60,00 | 120,00 | 950.08  | 1034,00 | 1069,00 | 844.59  | 1416,86 | 570,27  | 20 |
| 21 |       | 1840,000 | 129.84 | 32.48  | 120,00 | 60,00 | 120,00 | 1032.14 | 1034,00 | 1069,00 | 817.62  | 1418,81 | 601,19  | 21 |
| 22 |       | 1840,000 | 129.91 | 44.68  | 120,00 | 60,00 | 120,00 | 1055.62 | 1034,00 | 1069,00 | 809.60  | 1419,35 | 609,75  | 22 |
| 23 |       | 1840,000 | 130.33 | 85.73  | 120,00 | 60,00 | 120,00 | 1202.33 | 1034,00 | 1069,00 | 0.      | 1773,90 | 1008,12 | 23 |
| 24 |       | 2300,000 | 129.68 | 61.93  | 120,00 | 60,00 | 120,00 | 1417.55 | 838,00  | 862,00  | 453,20  | 1820,00 | 1366,80 | 24 |
| 25 |       | 2300,000 | 129.99 | 70.46  | 120,00 | 60,00 | 120,00 | 1612.49 | 838,00  | 862,00  | 450.13  | 1820,00 | 1369,87 | 25 |
| 26 |       | 2300,000 | 130.08 | 83.60  | 120,00 | 60,00 | 120,00 | 1676.65 | 838,00  | 862,00  | 0.      | 1820,00 | 1303,10 | 26 |
| 27 |       | 2300,000 | 130.61 | 130.31 | 120,00 | 60,00 | 120,00 | 2046.11 | 838,00  | 862,00  | 0.      | 1820,00 | 1464,50 | 27 |
| 28 |       | 2920,000 | 129.83 | 101.94 | 120,00 | 60,00 | 120,00 | 432.62  | 586,00  | 614,00  | 271,34  | 1154,37 | 584,08  | 28 |
| 29 |       | 2920,000 | 130.19 | 115.38 | 120,00 | 60,00 | 120,00 | 511.91  | 586,00  | 614,00  | 202.89  | 1220,00 | 629,82  | 29 |
| 30 |       | 2920,000 | 130.32 | 130.24 | 120,00 | 60,00 | 120,00 | 543.69  | 586,00  | 614,00  | 161.02  | 1220,00 | 886,28  | 30 |
| 31 |       | 2920,000 | 130.96 | 187.00 | 120,00 | 60,00 | 120,00 | 743.37  | 586,00  | 614,00  | 0.      | 1220,00 | 1123,52 | 31 |

SUMMARY OF ERRORS

- CAUTION SECNO= 650,000 PROFILE= 1 CRITICAL DEPTH ASSUMED
- CAUTION SECNO= 1770,000 PROFILE= 1 HYDRAULIC JUMP D.S.
- CAUTION SECNO= 1770,000 PROFILE= 2 HYDRAULIC JUMP D.S.
- CAUTION SECNO= 1770,000 PROFILE= 3 HYDRAULIC JUMP D.S.

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 HEC2 RELEASE DATED NOV 76 UPDATED AUG 1977  
 ERROR CORR = 01,02  
 MODIFICATION = 50,51,52,53  
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T1 LUMBERTON NC IVEY BRANCH  
 T2 FLOOD INSURANCE STUDY  
 T3 100-YEAR Q IVEY BRANCH

J1 ICHECK INQ NINV IDIR STRT METRIC HVINS Q WSEL FQ  
 0. 4. 0. 0. 0. 0. 0. 0. 125,300 0.

J2 NPROF IPLOT PREVS XSECV XSECH FN ALLOC IBW CHNIM ITRACE  
 1,000 0. -1,000 5,000 500,000 0. 0. 0. 0. 0.

J3 VARIABLE CODES FOR SUMMARY PRINTOUT  
 38,000 1,000 50,000 51,000 42,000 39,000 0. 38,000 21,000 22,000

53,000 54,000 0,000 0. 38,000 1,000 58,000 33,000 50,000 40,000

41,000 25,000 0. 38,000 1,000 43,000 13,000 55,000 14,000 26,000

15,000 56,000 8,000 35,000 60,000 59,000 0. 38,000 1,000 7,000

16,000 17,000 18,000 34,000 21,000 22,000 53,000 54,000 4,000 0.

NC 0,120 0,120 0,060 0,100 0,300 0. 0. 0. 0. 0.  
 WT 5,000 1620,000 2180,000 2430,000 3630,000 2430,000 0. 0. 0. 0.  
 ET 0. 0. 0. 0. 0. 8,400 0. 0. 0. 0.

X1 650,000 19,000 1190,000 1210,000 0. 0. 0. 0. 0.  
 GR 130,000 0. 129,000 230,000 128,000 555,000 126,000 585,000 124,000 1165,000  
 GR 128,000 1170,000 129,200 1175,000 121,700 1180,000 121,400 1190,000 120,300 1192,000  
 GR 116,900 1200,000 120,400 1208,000 121,800 1210,000 121,800 1250,000 122,400 1600,000  
 GR 124,000 1100,000 125,000 1775,000 126,000 1920,000 128,000 2040,000 0. 0.

X1 1640,000 21,000 1034,000 1066,000 990,000 990,000 990,000 0. 0. 0.  
 GR 130,200 0. 132,000 125,000 133,900 450,000 132,000 665,000 130,000 750,000  
 GR 128,000 825,000 128,100 900,000 126,700 950,000 125,200 980,000 132,700 1000,000  
 GR 124,100 1020,000 123,600 1034,000 120,300 1039,000 117,800 1050,000 120,400 1061,000  
 GR 123,700 1066,000 123,900 1100,000 123,800 1150,000 126,000 1335,000 130,000 1440,000  
 GR 134,000 1900,000 0. 0. 0. 0. 0. 0. 0. 0.

X1 1710,000 0. 0. 0. 70,000 70,000 70,000 0. 0. 0.  
 SB 1,250 1,500 3,000 650,000 11,000 1,000 80,000 0. 0. 0.

X1 1770,000 19,000 1034,000 1069,000 60,000 60,000 60,000 0. 0. 0.  
 X2 0. 0. 1,000 125,500 129,000 0. 0. 0. 0. 0.





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HEC2 RELEASE DATED NOV 16 UPDATED AUG 1977  
ERROR CORR = 01,02  
MODIFICATION = 50,51,52,53  
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T1 LUMBERTON NC IVEY BRANCH  
T2 FLOOD INSURANCE STUDY  
T3 FLOODWAY IVEY BRANCH

J1 ICHECK INQ NINV IDIR STRT METRIC HVINS Q WSEL FO  
0. 6. 0. 0. 0. 0. 0. 0. 126,300 0.

J2 NPROP IPLOT PREVB XSECV XSECH FN ALLOC TBW CHNIM ITRACE  
15,000 0. -1,000 5,000 500,000 0. 0. 0. 0. 0.

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 HEC2 RELEASE DATED NOV 76 UPDATED AUG 1977  
 ERROR CORR - 01,02  
 MODIFICATION - 50,51,52,53  
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NOTE - ASTERISK (\*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

100-YEAR Q IVEY BRA  
 SUMMARY PRINTOUT

| LINE | SECNO      | CWSEL   | DIFWSP | DIFWSX | ELMIN  | XLCH   |
|------|------------|---------|--------|--------|--------|--------|
| 13   |            |         |        |        |        |        |
| 14   | 650,000    | -125,30 | 0.     | 0.     | 116,90 | 0.     |
| 15   | 650,000    | 126,30  | 1,00   | 0.     | 116,90 | 0.     |
| 16   |            |         |        |        |        |        |
| 17   | 1640,000   | -127,60 | 0.     | 2,30   | 117,80 | 990,00 |
| 18   | 1640,000   | 128,51  | 0,92   | 2,21   | 117,80 | 990,00 |
| 19   |            |         |        |        |        |        |
| 20   | 1710,000   | 127,80  | 0.     | 0,20   | 117,80 | 70,00  |
| 21   | 1710,000   | 126,73  | 0,93   | 0,22   | 117,80 | 70,00  |
| 22   |            |         |        |        |        |        |
| 23   | * 1770,000 | 129,88  | 0.     | 2,08   | 118,30 | 60,00  |
| 24   | * 1770,000 | 130,81  | 0,93   | 2,08   | 118,30 | 60,00  |
| 25   |            |         |        |        |        |        |
| 26   | 1840,000   | 129,91  | 0.     | 0,04   | 118,30 | 70,00  |
| 27   | 1840,000   | 130,84  | 0,93   | 0,04   | 118,30 | 70,00  |
| 28   |            |         |        |        |        |        |
| 29   | 2300,000   | 130,08  | 0.     | 0,17   | 119,20 | 460,00 |
| 30   | 2300,000   | 131,01  | 0,93   | 0,17   | 119,20 | 460,00 |
| 31   |            |         |        |        |        |        |
| 32   | 2920,000   | 130,32  | 0.     | 0,24   | 120,80 | 620,00 |
| 33   | 2920,000   | 131,21  | 0,88   | 0,20   | 120,80 | 620,00 |
| 34   |            |         |        |        |        |        |
| 35   |            |         |        |        |        |        |
| 36   |            |         |        |        |        |        |
| 37   |            |         |        |        |        |        |
| 38   |            |         |        |        |        |        |
| 39   |            |         |        |        |        |        |
| 40   |            |         |        |        |        |        |
| 41   |            |         |        |        |        |        |
| 42   |            |         |        |        |        |        |
| 43   |            |         |        |        |        |        |
| 44   |            |         |        |        |        |        |
| 45   |            |         |        |        |        |        |
| 46   |            |         |        |        |        |        |
| 47   |            |         |        |        |        |        |
| 48   |            |         |        |        |        |        |
| 49   |            |         |        |        |        |        |
| 50   |            |         |        |        |        |        |
| 51   |            |         |        |        |        |        |
| 52   |            |         |        |        |        |        |
| 53   |            |         |        |        |        |        |
| 54   |            |         |        |        |        |        |
| 55   |            |         |        |        |        |        |
| 56   |            |         |        |        |        |        |
| 57   |            |         |        |        |        |        |

100-YEAR 0 IVEY BRA  
SUMMARY PRINTOUT

| 3  | SECNO      | STCHL   | STCHR   | SSTA    | ENDST   | TOPWID  | 1  |
|----|------------|---------|---------|---------|---------|---------|----|
| 4  | 650,000    | 1190,00 | 1210,00 | 788,00  | 1818,50 | 1019,53 | 2  |
| 5  | 650,000    | 1190,00 | 1210,00 | 1190,00 | 1523,39 | 333,39  | 3  |
| 6  |            |         |         |         |         |         | 4  |
| 7  | 1640,000   | 1034,00 | 1066,00 | 917,95  | 1376,93 | 433,51  | 5  |
| 8  | 1640,000   | 1034,00 | 1066,00 | 1034,00 | 1206,64 | 172,64  | 6  |
| 9  |            |         |         |         |         |         | 7  |
| 10 | 1710,000   | 1034,00 | 1066,00 | 910,74  | 1382,23 | 447,03  | 8  |
| 11 | 1710,000   | 1034,00 | 1066,00 | 1034,00 | 1217,38 | 183,38  | 9  |
| 12 |            |         |         |         |         |         | 10 |
| 13 | * 1770,000 | 1034,00 | 1069,00 | 813,85  | 1419,07 | 605,22  | 11 |
| 14 | * 1770,000 | 1034,00 | 1069,00 | 1014,27 | 1319,69 | 305,42  | 12 |
| 15 |            |         |         |         |         |         | 13 |
| 16 | 1840,000   | 1034,00 | 1069,00 | 809,60  | 1419,35 | 609,75  | 14 |
| 17 | 1840,000   | 1034,00 | 1069,00 | 1013,84 | 1320,93 | 307,09  | 15 |
| 18 |            |         |         |         |         |         | 16 |
| 19 | 2300,000   | 830,00  | 862,00  | 0,      | 1820,00 | 1385,10 | 17 |
| 20 | 2300,000   | 838,00  | 862,00  | 669,48  | 1422,85 | 753,37  | 18 |
| 21 |            |         |         |         |         |         | 19 |
| 22 | 2920,000   | 586,00  | 614,00  | 161,02  | 1220,00 | 886,28  | 20 |
| 23 | 2920,000   | 586,00  | 614,00  | 401,94  | 622,51  | 220,57  | 21 |
| 24 |            |         |         |         |         |         | 22 |
| 25 |            |         |         |         |         |         | 23 |
| 26 |            |         |         |         |         |         | 24 |
| 27 |            |         |         |         |         |         | 25 |
| 28 |            |         |         |         |         |         | 26 |
| 29 |            |         |         |         |         |         | 27 |
| 30 |            |         |         |         |         |         | 28 |
| 31 |            |         |         |         |         |         | 29 |
| 32 |            |         |         |         |         |         | 30 |
| 33 |            |         |         |         |         |         | 31 |
| 34 |            |         |         |         |         |         | 32 |
| 35 |            |         |         |         |         |         | 33 |
| 36 |            |         |         |         |         |         | 34 |
| 37 |            |         |         |         |         |         | 35 |
| 38 |            |         |         |         |         |         | 36 |
| 39 |            |         |         |         |         |         | 37 |
| 40 |            |         |         |         |         |         | 38 |
| 41 |            |         |         |         |         |         | 39 |
| 42 |            |         |         |         |         |         | 40 |
| 43 |            |         |         |         |         |         | 41 |
| 44 |            |         |         |         |         |         | 42 |
| 45 |            |         |         |         |         |         | 43 |
| 46 |            |         |         |         |         |         | 44 |
| 47 |            |         |         |         |         |         | 45 |
| 48 |            |         |         |         |         |         | 46 |
| 49 |            |         |         |         |         |         | 47 |
| 50 |            |         |         |         |         |         | 48 |
| 51 |            |         |         |         |         |         | 49 |
| 52 |            |         |         |         |         |         | 50 |
| 53 |            |         |         |         |         |         | 51 |
| 54 |            |         |         |         |         |         | 52 |
| 55 |            |         |         |         |         |         | 53 |
| 56 |            |         |         |         |         |         | 54 |
| 57 |            |         |         |         |         |         | 55 |





100-YEAR Q IVEY BRA  
SUMMARY PRINTOUT

| 1  | 2          | 3      | 4      | 5      | 6      | 7      | 8       | 9       | 10      | 11      | 12      | 13      | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 |  |  |  |  |  |
|----|------------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|--|--|--|
|    | SECNO      | CWSEL  | VOL    | K*XNL  | K*XNCH | K*XNR  | .QIK    | BTCHL   | BTCHR   | SSTA    | ENDST   | TOPWID  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |
| 4  | 650,000    | 125.30 | 0.     | 120.00 | 60.00  | 120.00 | 521.99  | 1190.00 | 1210.00 | 788.00  | 1818.50 | 1019.53 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |
| 5  | 650,000    | 126.30 | 0.     | 120.00 | 60.00  | 120.00 | 545.53  | 1190.00 | 1210.00 | 1190.00 | 1523.39 | 333.39  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |
| 7  | 1640,000   | 127.60 | 36.13  | 120.00 | 60.00  | 120.00 | 468.47  | 1034.00 | 1066.00 | 917.95  | 1376.93 | 433.51  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |
| 8  | 1640,000   | 128.51 | 27.32  | 120.00 | 60.00  | 120.00 | 459.11  | 1034.00 | 1066.00 | 1034.00 | 1206.64 | 172.64  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |
| 10 | 1710,000   | 127.80 | 38.18  | 120.00 | 60.00  | 120.00 | 508.26  | 1034.00 | 1066.00 | 910.74  | 1382.23 | 447.03  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |
| 11 | 1710,000   | 128.73 | 28.85  | 120.00 | 60.00  | 120.00 | 500.77  | 1034.00 | 1066.00 | 1034.00 | 1217.38 | 183.38  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |
| 13 | * 1770,000 | 129.88 | 40.76  | 120.00 | 60.00  | 120.00 | 1045.15 | 1034.00 | 1069.00 | 843.85  | 1419.07 | 605.22  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |
| 14 | * 1770,000 | 130.81 | 30.95  | 120.00 | 60.00  | 120.00 | 1076.48 | 1034.00 | 1069.00 | 1014.27 | 1319.69 | 305.42  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |
| 16 | 1840,000   | 129.91 | 44.68  | 120.00 | 60.00  | 120.00 | 1055.62 | 1034.00 | 1069.00 | 809.60  | 1419.35 | 609.75  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |
| 17 | 1840,000   | 130.84 | 34.26  | 120.00 | 60.00  | 120.00 | 1087.00 | 1034.00 | 1069.00 | 1013.84 | 1320.93 | 307.09  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |
| 19 | 2300,000   | 130.08 | 83.60  | 120.00 | 60.00  | 120.00 | 1676.65 | 838.00  | 862.00  | 0.      | 1820.00 | 1383.10 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |
| 20 | 2300,000   | 131.01 | 66.78  | 120.00 | 60.00  | 120.00 | 1738.21 | 838.00  | 862.00  | 669.48  | 1422.85 | 753.37  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |
| 22 | 2920,000   | 130.32 | 130.24 | 120.00 | 60.00  | 120.00 | 543.69  | 586.00  | 614.00  | 161.02  | 1220.00 | 886.28  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |
| 23 | 2920,000   | 131.21 | 104.28 | 120.00 | 60.00  | 120.00 | 553.71  | 586.00  | 614.00  | 401.94  | 622.51  | 220.57  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |

SUMMARY OF ERRORS

CAUTION SECNO= 1770,000 PROFILE= 1 HYDRAULIC JUMP D.S.  
CAUTION SECNO= 1770,000 PROFILE= 2 HYDRAULIC JUMP D.S.

IVEY BRANCH

FLOODWAY



SNUMB = 3480T, ACTIVITY # = 01, REPORT CODE = 52, RECORD COUNT = 000090

TARGET = 0.8'

T1 LUMBERTON NC IVEY BRANCH  
 T2 FLOOD INSURANCE STUDY  
 T3 100-YEAR @ IVEY BRANCH

J1 ICHECK INQ NINV IDIR STRT METRIC HVINS Q WSEL FQ  
 0. 4. 0. 0. 0. 0. 0. 0. 124.850 0.

J2 NPROF IPLOT PRFVS XSECV XSECH FN ALLDC IBW CHNIM ITRACE  
 1.000 0// -1.000 5.000 500.000 0. 0. 0. 0. 0.

J3 VARIABLE CODES FOR SUMMARY PRINTOUT

38.000 1.000 50.000 42.000 33.000 58.000 39.000 0. 38.000 1.000  
 50.000 51.000 40.000 41.000 25.000 0. 38.000 1.000 43.000 13.000  
 55.000 14.000 26.000 15.000 56.000 8.000 0. 38.000 1.000 50.000  
 7.000 16.000 17.000 18.000 4.000 53.000 54.000 34.000 0. 0.

J5 LPRNT NUMSEC

\*\*\*\*\*REQUESTED SECTION NUMBERS\*\*\*\*\*

-10.000 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.  
 NC 0.120 0.120 0.060 0.100 0.300 0. 0. 0. 0. 0.  
 DT 5.000 1620.000 2180.000 2430.000 3630.000 2430.000 0. 0. 0. 0.  
 ET 0. 0. 0. 0. 0. 8.400 0. 0. 0. 0.

X1 650.000 19.000 1190.000 1210.000 0. 0. 0. 0. 0. 0.  
 GR 130.000 0. 129.000 230.000 128.000 555.000 126.000 585.000 124.000 1165.000  
 GR 128.000 1170.000 129.200 1175.000 121.700 1180.000 121.400 1190.000 120.300 1192.000  
 GR 116.900 1200.000 120.400 1208.000 121.800 1210.000 121.800 1250.000 122.400 1600.000  
 GR 124.000 1700.000 125.000 1775.000 126.000 1920.000 128.000 2040.000 0. 0.

X1 1640.000 21.000 1034.000 1066.000 990.000 990.000 990.000 0. 0. 0.  
 GR 130.200 0. 132.000 175.000 133.900 450.000 132.000 665.000 130.000 750.000  
 GR 128.000 225.000 128.100 900.000 126.700 950.000 125.200 980.000 132.700 1000.000  
 GR 124.100 1020.000 123.600 1034.000 120.300 1039.000 117.800 1050.000 120.400 1061.000  
 GR 123.700 1066.000 123.900 1100.000 123.800 1150.000 126.000 1335.000 130.000 1440.000  
 CP 134.000 1900.000 0. 0. 0. 0. 0. 0. 0. 0.

X1 1710.000 0. 0. 0. 70.000 70.000 70.000 0. 0. 0.  
 SB 1.250 1.500 3.000 650.000 11.000 1.000 80.000 0. 0. 0.

X1 1770.000 19.000 1034.000 1069.000 60.000 60.000 60.000 0. 0. 0.  
 X2 0. 0. 1.000 125.500 129.000 0. 0. 0. 0. 0.  
 GR 130.000 0. 132.000 100.000 134.000 310.000 134.000 605.000 132.000 695.000  
 GR 130.000 400.000 129.100 900.000 127.800 950.000 125.100 1000.000 124.200 1034.000  
 GR 118.300 1050.000 124.900 1069.000 122.300 1100.000 123.100 1150.000 125.200 1200.000  
 GR 126.000 1370.000 128.000 1405.000 130.000 1420.000 130.500 1950.000 0. 0.

X1 1840.000 0. 0. 0. 70.000 70.000 70.000 0. 0. 0.



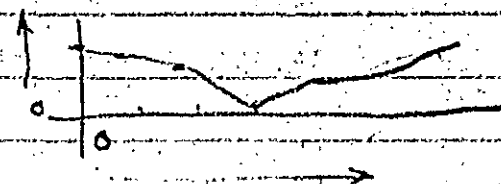
|    |          |         |         |          |         |          |         |          |         |         |
|----|----------|---------|---------|----------|---------|----------|---------|----------|---------|---------|
| X1 | 2300,000 | 19,000  | 838,000 | 862,000  | 460,000 | 460,000  | 460,000 | 0.       | 0.      | 0.      |
| GR | 130,000  | 0.      | 132,000 | 140,000  | 132,000 | 280,000  | 130,000 | 450,000  | 128,000 | 470,000 |
| GR | 126,000  | 630,000 | 124,000 | 730,000  | 122,000 | 770,000  | 125,800 | 800,000  | 124,900 | 838,000 |
| GR | 121,300  | 842,000 | 119,200 | 850,000  | 121,400 | 858,000  | 124,000 | 862,000  | 124,000 | 900,000 |
| GR | 123,500  | 950,000 | 126,000 | 1012,000 | 128,000 | 1480,000 | 128,000 | 1820,000 | 0.      | 0.      |

|    |          |          |         |          |         |         |         |         |         |         |
|----|----------|----------|---------|----------|---------|---------|---------|---------|---------|---------|
| X1 | 2920,000 | 17,000   | 586,000 | 614,000  | 620,000 | 620,000 | 620,000 | 0.      | 0.      | 0.      |
| GR | 130,800  | 0.       | 130,000 | 265,000  | 126,000 | 405,000 | 125,900 | 500,000 | 127,300 | 586,000 |
| GR | 123,000  | 591,000  | 120,800 | 600,000  | 122,600 | 609,000 | 126,700 | 614,000 | 126,600 | 650,000 |
| GR | 132,100  | 683,000  | 131,700 | 700,000  | 130,000 | 726,000 | 131,600 | 810,000 | 130,000 | 880,000 |
| GR | 129,600  | 1075,000 | 130,000 | 1220,000 | 0.      | 0.      | 0.      | 0.      | 0.      | 0.      |
| EJ | 0.       | 0.       | 0.      | 0.       | 0.      | 0.      | 0.      | 0.      | 0.      | 0.      |

T1 LUMBERTON NC IVEY BRANCH  
T2 FLOOD INSURANCE STUDY  
T3 FLOODWAY IVEY BRANCH

|    |        |     |      |      |      |        |       |    |         |    |
|----|--------|-----|------|------|------|--------|-------|----|---------|----|
| J1 | ICHECK | ING | NINV | IDIR | STRT | METRIC | HVINS | G  | WSEL    | FG |
|    | 0.     | 6.  | 0.   | 0.   | 0.   | 0.     | 0.    | 0. | 125.850 | 0. |

|    |        |      |        |       |         |    |       |     |       |        |
|----|--------|------|--------|-------|---------|----|-------|-----|-------|--------|
| J2 | NPROF  | IPLT | PRFVS  | XSECV | XSECH   | FN | ALLOC | IBW | CHNIM | ITRACE |
|    | 15.000 | 0.   | -1.000 | 5.000 | 500.000 | 0. | 0.    | 0.  | 0.    | 0.     |



\*\*\*\*\*  
 PEC2 RELEASE DATED NOV 76 UPDATED FEB 1977  
 ERROR CORR = 01  
 MODIFICATION = 50,51,52  
 \*\*\*\*\*

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

100-YEAR Q IVEY BRA  
 SUMMARY PRINTOUT

| SECNO      | CWSEL  | DIFWSP | ELMIN  | K*CHSL | KRATIO | XLCH   |
|------------|--------|--------|--------|--------|--------|--------|
| 650.000    | 124.85 | 0.     | 116.90 | 0.     | 0.     | 0.     |
| 650.000    | 125.85 | 1.00   | 116.90 | 0.     | 0.     | 0.     |
| 1640.000   | 127.73 | 0.     | 117.80 | 0.91   | 1.24   | 990.00 |
| 1640.000   | 128.65 | 0.92   | 117.80 | 0.91   | 1.16   | 990.00 |
| 1710.000   | 127.91 | 0.     | 117.80 | 0.     | 1.07   | 70.00  |
| 1710.000   | 128.84 | 0.93   | 117.80 | 0.     | 1.08   | 70.00  |
| * 1770.000 | 129.88 | 0.     | 118.30 | 8.33   | 1.97   | 60.00  |
| * 1770.000 | 130.82 | 0.93   | 118.30 | 8.33   | 2.06   | 60.00  |
| 1840.000   | 129.92 | 0.     | 118.30 | 0.     | 1.01   | 70.00  |
| 1840.000   | 130.85 | 0.93   | 118.30 | 0.     | 1.01   | 70.00  |
| 2300.000   | 130.09 | 0.     | 119.20 | 1.96   | 1.59   | 460.00 |
| 2300.000   | 131.02 | 0.93   | 119.20 | 1.96   | 1.60   | 460.00 |
| 2920.000   | 130.33 | 0.     | 120.80 | 2.58   | 0.32   | 620.00 |
| 2920.000   | 131.21 | 0.89   | 120.80 | 2.58   | 0.32   | 620.00 |

100-YEAR O IVEY BRA  
SUMMARY PRINTOUT

| SECNO      | CWSEL  | DIFWSP | DIFWBX | ELTRD    | ELLC   | AREA    |
|------------|--------|--------|--------|----------|--------|---------|
| 650.000    | 124.85 | 0.     | 0.     | 0.       | 0.     | 1533.22 |
| 650.000    | 125.85 | 1.00   | 0.     | 0.       | 0.     | 1188.19 |
| 1640.000   | 127.73 | 0.     | 2.88   | 0.       | 0.     | 1290.53 |
| 1640.000   | 128.65 | 0.92   | 2.80   | 0.       | 0.     | 969.44  |
| 1710.000   | 127.91 | 0.     | 0.18   | 0.       | 0.     | 1369.11 |
| 1710.000   | 128.84 | 0.93   | 0.19   | 0.       | 0.     | 1041.45 |
| * 1770.000 | 129.88 | 0.     | 1.97   | 129.00   | 129.50 | 2433.20 |
| * 1770.000 | 130.82 | 0.93   | 1.97   | 99999.00 | 0.     | 2056.20 |
| 1840.000   | 129.92 | 0.     | 0.04   | 0.       | 0.     | 2456.34 |
| 1840.000   | 130.85 | 0.93   | 0.04   | 0.       | 0.     | 2073.88 |
| 2300.000   | 130.09 | 0.     | 0.17   | 0.       | 0.     | 4926.64 |
| 2300.000   | 131.02 | 0.93   | 0.17   | 0.       | 0.     | 4098.05 |
| 2920.000   | 130.33 | 0.     | 0.24   | 0.       | 0.     | 1639.53 |
| 2920.000   | 131.21 | 0.89   | 0.20   | 0.       | 0.     | 1185.43 |

100-YEAR O IVEY BRA  
SUMMARY PRINTOUT

| SECNO      | CWSEL  | R       | QLOB    | VLDB | DCH     | VCH  | QROB    | VRDB | DEPTH |
|------------|--------|---------|---------|------|---------|------|---------|------|-------|
| 650.000    | 124.85 | 2430.00 | 102.30  | 0.72 | 521.58  | 4.53 | 1806.03 | 1.41 | 7.95  |
| 650.000    | 125.85 | 2430.00 | 0.      | 0.   | 573.44  | 4.24 | 1856.56 | 1.76 | 8.95  |
| 1640.000   | 127.73 | 2430.00 | 155.86  | 1.03 | 1120.69 | 4.52 | 1154.05 | 1.29 | 9.93  |
| 1640.000   | 128.65 | 2430.00 | 0.      | 0.   | 1252.29 | 4.52 | 1177.71 | 1.70 | 10.85 |
| 1710.000   | 127.91 | 2430.00 | 165.07  | 0.98 | 1084.70 | 4.28 | 1180.23 | 1.25 | 10.11 |
| 1710.000   | 128.84 | 2430.00 | 0.      | 0.   | 1203.58 | 4.25 | 1226.42 | 1.62 | 11.04 |
| * 1770.000 | 129.88 | 2430.00 | 298.02  | 0.65 | 677.64  | 2.29 | 1454.34 | 0.86 | 11.58 |
| * 1770.000 | 130.82 | 2430.00 | 100.66  | 0.80 | 781.69  | 2.38 | 1547.65 | 0.97 | 12.52 |
| 1840.000   | 129.92 | 2430.00 | 300.28  | 0.65 | 674.72  | 2.27 | 1455.00 | 0.86 | 11.62 |
| 1840.000   | 130.85 | 2430.00 | 102.71  | 0.80 | 778.14  | 2.36 | 1549.14 | 0.96 | 12.55 |
| 2300.000   | 130.09 | 2430.00 | 851.47  | 0.51 | 308.15  | 1.44 | 1270.38 | 0.42 | 10.89 |
| 2300.000   | 131.02 | 2430.00 | 693.65  | 0.61 | 350.21  | 1.48 | 1386.15 | 0.51 | 11.82 |
| 2920.000   | 130.33 | 2430.00 | 1353.03 | 1.26 | 805.38  | 3.88 | 271.59  | 0.76 | 9.53  |
| 2920.000   | 131.21 | 2430.00 | 1429.79 | 1.57 | 955.73  | 4.11 | 44.48   | 1.12 | 10.41 |

100-YEAR O IVEY BRA  
SUMMARY PRINTOUT

| SECNO      | CWSEL  | DIFWSP | VOL    | K*XL   | K*XNH | K*XNR  | TOPWID  | SSTA    | ENDST   | .01K    |
|------------|--------|--------|--------|--------|-------|--------|---------|---------|---------|---------|
| 650.000    | 124.85 | 0.     | 0.     | 120.00 | 60.00 | 120.00 | 833.41  | 918.50  | 1763.75 | 398.48  |
| 650.000    | 125.85 | 1.00   | 0.     | 120.00 | 60.00 | 120.00 | 291.35  | 1190.00 | 1481.35 | 417.93  |
| 1640.000   | 127.73 | 0.     | 32.09  | 120.00 | 60.00 | 120.00 | 442.67  | 913.07  | 1380.52 | 495.21  |
| 1640.000   | 128.65 | 0.92   | 24.52  | 120.00 | 60.00 | 120.00 | 180.36  | 1034.00 | 1214.36 | 486.37  |
| 1710.000   | 127.91 | 0.     | 34.23  | 120.00 | 60.00 | 120.00 | 454.40  | 906.81  | 1385.12 | 530.79  |
| 1710.000   | 128.84 | 0.93   | 26.13  | 120.00 | 60.00 | 120.00 | 189.16  | 1034.00 | 1223.16 | 523.31  |
| * 1770.000 | 129.88 | 0.     | 36.84  | 120.00 | 60.00 | 120.00 | 606.03  | 813.09  | 1419.12 | 1045.38 |
| * 1770.000 | 130.82 | 0.93   | 28.27  | 120.00 | 60.00 | 120.00 | 305.72  | 1014.19 | 1319.91 | 1079.26 |
| 1840.000   | 129.92 | 0.     | 40.77  | 120.00 | 60.00 | 120.00 | 610.54  | 808.86  | 1419.40 | 1057.81 |
| 1840.000   | 130.85 | 0.93   | 31.59  | 120.00 | 60.00 | 120.00 | 307.38  | 1013.77 | 1321.15 | 1089.75 |
| 2300.000   | 130.04 | 0.     | 79.76  | 120.00 | 60.00 | 120.00 | 1384.02 | 0.      | 1820.00 | 1680.62 |
| 2300.000   | 131.02 | 0.93   | 64.17  | 120.00 | 60.00 | 120.00 | 754.40  | 669.28  | 1423.68 | 1743.22 |
| 2920.000   | 130.33 | 0.     | 126.48 | 120.00 | 60.00 | 120.00 | 888.51  | 159.38  | 1220.00 | 544.98  |
| 2920.000   | 131.21 | 0.89   | 101.77 | 120.00 | 60.00 | 120.00 | 220.95  | 401.61  | 622.76  | 555.29  |

SUMMARY OF ERRORS

CAUTION SECNO= 1770.000 PROFILE= 1 HYDRAULIC JUMP O.S.  
CAUTION SECNO= 1770.000 PROFILE= 2 HYDRAULIC JUMP O.S.