

LEONARD CREEK

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M 17.53.41 JOB 791 -- RMKI14 -- JCL INTERPRETED, TUCC CPU #2
M 17.55.08 JOB 791 -- RMKI14 -- BEGINNING EXEC - IMIT 6 - CLASS
L*17.55.08 JOB 791 +++++S=068,T=02,J=RMKI14 17:55:08 KEZIAH
M 17.57.21 JOB 791 END EXECUTION.

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

C
 T1 DAVIDSON COUNTY BASIN I STRM 14 LEONARD CREEK
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918
 T3 10 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FO
	-1.	2.	0.	0.	0.016000	0.0	0.0	0.	633.500	0.0

J2	NPROF	IPLT	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
BT	5.000	2250.000	3670.000	4750.000	6900.000	4750.000	0.0	0.0	0.0	0.0
ET	5.000	0.0	0.0	0.0	0.0	-10.400	0.0	0.0	0.0	0.0

X1	110.000	12.000	1070.000	1104.000	110.000	110.000	110.000	0.0	-1.000	0.0
GR	653.300	1000.000	638.400	1029.000	635.800	1047.000	636.900	1070.000	630.600	1074.000
GR	629.500	1067.000	630.300	1101.000	633.500	1104.000	636.500	1116.000	647.500	1135.000
GR	649.200	1157.000	662.100	1185.000	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.060	0.060	0.040	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	135.000	26.000	1717.000	1747.000	25.000	25.000	25.000	0.0	0.0	0.0
GR	652.600	1000.000	644.100	1100.000	643.500	1200.000	643.900	1300.000	645.700	1400.000
GR	647.500	1500.000	640.300	1600.000	638.400	1700.000	638.300	1717.000	630.800	1717.000
GR	630.300	1718.000	629.100	1720.000	629.500	1732.000	628.700	1741.000	630.300	1747.000
GR	638.300	1747.000	639.300	1800.000	644.300	1900.000	644.600	2000.000	643.700	2100.000
GR	644.000	2200.000	646.500	2300.000	648.800	2400.000	650.000	2500.000	652.700	2600.000
GR	653.800	2629.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SB	0.900	1.500	2.500	0.0	30.000	0.010	209.000	0.0	0.0	0.0

142 RDNQ NCSR 2726 MXLCEL 636.3 RDELV 638.3

X1	148.000	0.0	0.0	0.0	13.000	13.000	13.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	636.300	638.300	0.0	0.0	0.0	0.0	0.0
BT	20.000	1000.000	652.600	0.0	1100.000	644.100	0.0	1200.000	643.500	0.0
BT	1300.000	643.900	0.0	1400.000	645.700	0.0	1500.000	647.500	0.0	1600.000
BT	640.500	0.0	1700.000	638.400	0.0	1717.000	638.300	1747.000	638.300	0.0
BT	636.300	1800.000	639.300	0.0	1900.000	644.300	0.0	2000.000	645.600	0.0
BT	2000.000	643.700	0.0	2200.000	644.000	0.0	2300.000	646.900	0.0	2400.000

BT	648.800	0.0	2500.000	650.000	0.0	2600.000	652.700	0.0	2629.000	653.800
BT	0.0	0.0	0.0	0.0	0.0	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

X1	165.000	12.000	1070.000	1104.000	17.000	17.000	17.000	0.0	0.0	0.0
GR	653.300	1000.000	638.400	1029.000	635.800	1047.000	636.900	1070.000	630.600	1074.000
GR	629.500	1087.000	630.300	1101.000	633.500	1104.000	636.500	1116.000	647.500	1135.000
GR	649.200	1157.000	662.100	1185.000	0.0	0.0	0.0	0.0	0.0	0.0
QT	5.000	2230.000	3650.000	4730.000	6870.000	4730.000	0.0	0.0	0.0	0.0

X1	225.000	12.000	1070.000	1104.000	60.000	60.000	60.000	0.0	0.0	0.0
GR	653.300	1000.000	638.400	1029.000	635.800	1047.000	636.900	1070.000	630.600	1074.000
GR	629.500	1087.000	630.300	1101.000	633.500	1104.000	636.500	1116.000	647.500	1135.000
GR	649.200	1157.000	662.100	1185.000	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.060	0.060	0.040	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	275.000	23.000	1600.000	1714.000	50.000	50.000	50.000	0.0	0.0	0.0
GR	673.600	1000.000	673.600	1100.000	674.200	1200.000	674.600	1300.000	674.900	1400.000
GR	675.500	1500.000	676.200	1600.000	637.500	1600.000	636.500	1629.000	633.900	1650.000
GR	632.600	1664.000	632.100	1671.000	631.200	1686.000	632.000	1700.000	637.300	1701.000
GR	640.000	1714.000	677.200	1714.000	678.000	1800.000	679.000	1900.000	680.100	2000.000
GR	681.200	2100.000	682.300	2200.000	683.300	2300.000	0.0	0.0	0.0	0.0
SB	0.900	1.500	2.500	0.0	100.000	0.010	2359.000	0.0	0.0	0.0

290 ROND SOUTHERN RR. MXLCEL 665.5 RDELV 678.2

X1	305.000	0.0	0.0	0.0	30.000	30.000	30.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	665.500	673.600	0.0	0.0	0.0	0.0	0.0
BT	26.000	1000.000	673.600	0.0	1100.000	673.800	0.0	1200.000	674.200	0.0
BT	1300.000	674.600	0.0	1400.000	674.900	0.0	1500.000	675.500	0.0	1599.900
BT	676.200	0.0	1600.000	677.500	637.500	1615.000	677.600	659.700	1629.000	677.700
BT	664.800	1643.000	677.800	660.100	1649.000	677.900	644.000	1650.000	677.900	633.900
BT	1664.000	678.000	632.600	1665.000	678.000	644.000	1671.000	678.100	660.500	1686.000
BT	679.200	665.500	1701.000	678.300	660.500	1714.000	678.500	640.000	1714.100	677.200
BT	0.0	1800.000	678.000	0.0	1900.000	679.000	0.0	2000.000	680.100	0.0
BT	2100.000	681.200	0.0	2200.000	682.300	0.0	2300.000	683.300	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

X1	357.000	12.000	1070.000	1104.000	50.000	50.000	50.000	0.0	2.500	0.0
GR	653.300	1000.000	638.400	1029.000	635.800	1047.000	636.900	1070.000	630.600	1074.000
GR	629.500	1087.000	630.300	1101.000	633.500	1104.000	636.500	1116.000	647.500	1135.000
GR	649.200	1157.000	662.100	1135.000	0.0	0.0	0.0	0.0	0.0	0.0
QT	5.000	2210.000	3630.000	4710.000	6850.000	4710.000	0.0	0.0	0.0	0.0

X1	2300.000	24.000	1347.000	1374.000	1945.000	1945.000	1945.000	0.0	0.0	0.0
GR	655.600	1000.000	640.300	1025.000	640.200	1100.000	640.100	1200.000	640.600	1300.000
GR	633.900	1310.000	638.800	1314.000	640.800	1319.000	641.100	1327.000	637.100	1333.000
GR	637.500	1347.000	634.800	1351.000	633.400	1364.000	635.300	1370.000	641.000	1374.000
GR	639.900	1400.000	642.900	1500.000	643.800	1600.000	644.500	1700.000	645.100	1800.000
GR	645.700	1900.000	647.600	2000.000	652.600	2100.000	653.400	2125.000	0.0	0.0
QT	5.000	2200.000	3620.000	4700.000	6840.000	4700.000	0.0	0.0	0.0	0.0

X1	4732	23.000	1630.000	1871.000	1733	1733	1733	0.0	0.0	0.0
GR	661.300	1000.000	653.800	1100.000	651.300	1200.000	649.600	1300.000	648.200	1400.000
GR	647.900	1500.000	645.700	1600.000	644.800	1700.000	646.400	1800.000	644.600	1812.000
GR	644.100	1817.000	643.600	1830.000	639.300	1839.000	638.100	1846.000	639.400	1853.000
GR	646.300	1871.000	647.100	1900.000	647.900	2000.000	647.300	2100.000	647.600	2200.000
GR	648.100	2300.000	648.900	2400.000	640.700	2475.000	0.0	0.0	0.0	0.0
NC	0.060	0.060	0.040	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	4333	25.000	2402.000	2132.000	100.000	100.000	100.000	0.0	0.0	0.0
GR	678.200	1000.000	666.400	1800.000	660.200	1600.000	658.900	1700.000	658.000	1800.000
GR	658.300	1900.000	658.800	2000.000	659.700	2100.000	659.900	2200.000	663.000	2300.000
GR	663.100	2400.000	663.200	2402.000	659.300	2402.000	657.900	2407.000	642.800	2430.000
GR	638.800	2447.000	638.700	2467.000	639.800	2478.000	649.100	2496.000	650.400	2515.000
GR	660.000	2532.000	665.400	2532.000	666.400	2600.000	670.400	2800.000	676.100	3100.000
SB	1.250	1.500	2.500	0.0	130.000	5.000	1772.000	0.0	0.0	0.0

RDND I-88 29-70 NS MXLCEL N-661.7 S-661.9 RDELV N-665.4 S-665.6

X1	4367	0.0	0.0	0.0	34.000	34.000	34.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	661.700	0.0	0.0	0.0	0.0	0.0	0.0
BT	16.000	1000.000	678.200	0.0	1300.000	666.400	0.0	1600.000	660.200	0.0
BT	1700.000	658.900	0.0	1800.000	658.000	0.0	1900.000	658.300	0.0	2000.000
BT	658.800	0.0	2100.000	659.700	0.0	2200.000	659.900	0.0	2300.000	663.000
BT	0.0	2400.000	663.100	0.0	2402.000	663.200	659.500	2532.000	665.400	661.700
BT	2600.000	666.400	0.0	2800.000	670.400	0.0	3100.000	676.100	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

X1	4392	0.0	0.0	0.0	15.000	15.000	15.000	0.0	0.100	0.0
NC	0.060	0.060	0.040	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	4437	0.0	0.0	0.0	15.000	15.000	15.000	0.0	0.100	0.0
SB	1.250	1.500	2.500	0.0	130.000	5.000	1772.000	0.0	0.0	0.0

X1	4451	0.0	0.0	0.0	34.000	34.000	34.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	661.900	0.0	0.0	0.0	0.0	0.0	0.0
BT	16.000	1000.000	678.400	0.0	1300.000	666.600	0.0	1600.000	660.400	0.0
BT	1700.000	659.100	0.0	1800.000	658.200	0.0	1900.000	658.500	0.0	2000.000
BT	659.000	0.0	2100.000	659.900	0.0	2200.000	660.100	0.0	2300.000	663.200
BT	0.0	2400.000	663.300	0.0	2402.000	663.400	659.700	2532.000	665.600	661.900
BT	2600.000	666.600	0.0	2800.000	670.600	0.0	3100.000	676.300	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

X1	4531	23.000	1830.000	1871.000	100.000	100.000	100.000	0.0	1.000	0.0
GR	661.300	1000.000	653.800	1100.000	651.300	1200.000	649.600	1300.000	648.200	1400.000
GR	647.900	1500.000	645.700	1600.000	644.800	1700.000	646.400	1800.000	644.600	1812.000
GR	644.100	1817.000	643.600	1830.000	639.300	1839.000	638.100	1846.000	639.400	1853.000
GR	646.300	1871.000	647.100	1900.000	647.900	2000.000	647.300	2100.000	647.600	2200.000
GR	648.100	2300.000	648.900	2400.000	660.700	2475.000	0.0	0.0	0.0	0.0
QT	5.000	2200.000	3620.000	4700.000	6840.000	4700.000	0.0	0.0	0.0	0.0

X1	4634	16.000	1158.000	1181.000	468.000	468.000	468.000	0.0	0.0	0.0
GR	663.700	1000.000	662.200	1025.000	656.900	1050.000	655.500	1100.000	648.100	1128.000
GR	647.700	1158.000	643.400	1161.000	640.700	1168.000	647.200	1175.000	648.700	1181.000
GR	648.000	1200.000	647.400	1300.000	649.000	1400.000	657.400	1500.000	660.600	1600.000
GR	664.000	1640.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.060	0.060	0.040	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	5039	25.000	1557.000	1717.000	100.000	100.000	100.000	0.0	0.0	0.0
GR	679.400	1000.000	674.400	1100.000	669.300	1200.000	666.100	1300.000	662.200	1400.000
GR	662.000	1500.000	664.200	1557.000	659.000	1557.000	648.800	1589.000	642.000	1590.000
GR	641.500	1602.000	641.600	1613.000	643.200	1617.000	646.300	1631.000	645.900	1662.000
GR	649.500	1687.000	659.000	1717.000	664.200	1717.000	663.300	1800.000	663.800	1900.000
GR	664.500	2000.000	666.700	2100.000	670.600	2200.000	675.500	2300.000	679.400	2370.000
SB	0.900	1.500	2.500	0.0	160.000	6.000	1584.000	0.0	0.0	0.0

RDNQ NCSR 1844 MXLCEL 659.0 RDELV 664.2

X1	4351.000	0.0	0.0	0.0	22.000	22.000	22.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	659.000	662.000	0.0	0.0	0.0	0.0	0.0
BT	15.000	1900.000	679.400	0.0	1100.000	674.400	0.0	1200.000	669.300	0.0
BT	1300.000	666.100	0.0	1400.000	662.200	0.0	1500.000	662.000	0.0	1557.000
BT	664.200	659.000	1717.000	664.200	659.000	1800.000	663.300	0.0	1900.000	663.800
BT	0.0	2000.000	664.500	0.0	2100.000	666.700	0.0	2200.000	670.500	0.0
BT	2300.000	675.500	0.0	2370.000	679.400	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

G

X1	4351.000	16.000	1158.000	1181.000	100.000	100.000	109.000	0.0	1.600	0.0
GR	663.700	1000.700	662.300	1025.000	656.900	1050.000	655.500	1100.000	648.100	1128.000
GR	647.700	1158.000	643.400	1161.000	640.700	1168.000	643.200	1175.000	648.700	1181.000
GR	648.000	1200.000	647.400	1300.000	649.000	1400.000	653.400	1500.000	660.600	1600.000
GR	664.000	1640.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
QT	5.000	2000.000	3280.000	4020.000	6020.000	4820.000	0.0	0.0	0.0	0.0

H

X1	6805.000	12.000	1275.000	1301.000	1639.000	1639.000	1639.000	0.0	0.0	0.0
GR	665.700	1000.000	655.100	1100.000	648.900	1200.000	650.400	1275.000	646.500	1286.000
GR	644.600	1294.000	646.700	1300.000	645.800	1301.000	648.300	1375.000	650.900	1400.000
GR	663.400	1500.000	665.600	1518.000	0.0	0.0	0.0	0.0	0.0	0.0
BT	5.000	1990.000	3250.000	4000.000	6000.000	4000.000	0.0	0.0	0.0	0.0

I

X1	9150.000	15.000	1321.000	1341.000	2350.000	2350.000	2350.000	0.0	0.0	0.0
GR	663.900	1000.000	657.700	1100.000	653.300	1150.000	653.000	1200.000	653.900	1300.000
GR	654.400	1321.000	650.000	1322.000	648.600	1331.000	650.200	1340.000	654.200	1341.000
GR	653.900	1400.000	653.600	1500.000	653.900	1590.000	656.300	1600.000	669.000	1655.000
BT	5.000	1290.000	2220.000	2790.000	4090.000	2790.000	0.0	0.0	0.0	0.0

J

X1	10587.000	18.000	1280.000	1311.000	1637.000	1637.000	1637.000	0.0	-4.000	0.0
GR	673.100	1000.000	667.800	1086.000	662.200	1100.000	658.000	1174.000	657.700	1200.000
GR	658.700	1286.000	655.100	1296.000	654.800	1302.000	654.900	1309.000	658.400	1311.000
GR	657.500	1400.000	658.100	1500.000	658.900	1600.000	661.100	1700.000	662.500	1800.000
GR	665.300	1900.000	669.600	2000.000	672.700	2100.000	0.0	0.0	0.0	0.0

X1	10697.000	23.000	1604.000	1635.000	111.000	89.000	100.000	0.710	0.0	0.0
GR	640.100	1000.000	675.800	1100.000	671.800	1200.000	668.600	1300.000	666.000	1400.000
GR	664.500	1500.000	664.100	1600.000	664.500	1604.000	655.400	1604.000	655.800	1609.000
GR	651.000	1619.000	655.700	1629.000	656.200	1635.000	664.500	1635.000	654.400	1700.000
GR	665.300	1800.000	665.900	1900.000	665.600	2000.000	666.700	2100.000	663.100	2200.000
GR	671.400	2300.000	677.600	2400.000	680.100	2439.000	0.0	0.0	0.0	0.0
SR	0.900	1.500	2.500	0.0	31.000	0.010	256.000	0.0	0.0	0.0

RDNQ NCSR 1843 MXLCEL 662.5 RDELV 664.5

X1	10713.000	0.0	0.0	0.0	26.000	26.000	26.000	0.710	0.0	0.0
X2	0.0	0.0	1.000	662.500	664.700	0.0	0.0	0.0	0.0	0.0
BT	18.000	1000.000	680.100	0.0	1100.000	675.800	0.0	1200.000	671.800	0.0
BT	1300.000	668.600	0.0	1400.000	666.000	0.0	1500.000	664.500	0.0	1600.000
BT	664.100	0.0	1404.000	664.500	662.500	1635.000	664.500	662.500	1700.000	664.400
BT	0.0	1800.000	665.300	0.0	1900.000	665.900	0.0	2000.000	665.600	0.0
BT	2100.000	666.700	0.0	2200.000	669.100	0.0	2300.000	671.400	0.0	2400.000
BT	677.600	0.0	2439.000	680.100	0.0	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

K

X1	10813.000	18.000	1286.000	1311.000	89.000	111.000	100.000	0.0	-1.800	0.0
GR	673.100	1000.000	667.800	1086.000	662.200	1100.000	658.000	1174.000	657.700	1200.000

GR	558.700	1286.000	655.100	1296.000	654.800	1302.000	654.900	1309.000	658.400	1311.000
GR	657.500	1400.000	658.100	1500.000	658.900	1600.000	661.100	1700.000	662.500	1800.000
GR	665.300	1900.000	669.600	2000.000	672.700	2100.000	0.0	0.0	0.0	0.0
QT	5.000	1270.000	2200.000	2770.000	4070.000	2770.000	0.0	0.0	0.0	0.0

K4

X1	12140.000 12240.000	16.000	1185.000	1202.000	1227.000 1276.000	1227.000 1276.000	1227.000 1276.000	0.0	0.0	0.0
GR	676.600	1000.000	667.100	1035.000	668.600	1074.000	665.400	1100.000	660.000	1133.000
GR	661.400	1185.000	656.600	1187.000	655.100	1195.000	656.400	1200.000	659.800	1202.000
GR	659.900	1300.000	660.400	1321.000	662.200	1400.000	667.300	1500.000	675.800	1600.000
GR	676.600	1605.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

X1	12240.000 12240.000	24.000	1389.000	1423.000	100.000	100.000	100.000	0.0	0.0	0.0
GR	681.000	1000.000	674.000	1100.000	669.100	1200.000	665.800	1300.000	665.500	1389.000
GR	656.900	1389.000	656.700	1392.000	655.900	1402.000	656.300	1406.000	657.100	1412.000
GR	656.800	1418.000	658.800	1423.000	665.500	1423.000	665.400	1500.000	665.500	1600.000
GR	665.500	1700.000	665.600	1800.000	666.400	1900.000	667.500	2000.000	668.800	2100.000
GR	670.700	2200.000	673.600	2300.000	677.800	2400.000	681.000	2479.000	0.0	0.0
SS	0.900	1.500	2.500	0.0	34.000	1.000	229.000	0.0	0.0	0.0

12400
12551 RONA NCSR 1841 MXLCEL 663.8 RDELV 665.5

X1	12240.000 12240.000	0.0	0.0	0.0	21.000	21.000	21.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	663.800	665.400	0.0	0.0	0.0	0.0	0.0
BT	17.000	1000.000	681.000	0.0	1100.000	674.000	0.0	1200.000	669.100	0.0
BT	1300.000	665.800	0.0	1389.000	665.500	663.800	1423.000	665.500	663.800	1500.000
BT	665.400	0.0	1600.000	665.500	0.0	1700.000	665.500	0.0	1800.000	665.600
BT	0.0	1900.000	666.400	0.0	2000.000	667.500	0.0	2100.000	668.800	0.0
BT	2200.000	670.700	0.0	2300.000	673.600	0.0	2400.000	677.800	0.0	2479.000
BT	661.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

X1	12551.000 12551.000	16.000	1185.000	1202.000	100.000	100.000	100.000	0.0	0.800	0.0
GR	676.600	1000.000	667.100	1035.000	668.600	1074.000	665.400	1100.000	660.000	1133.000
GR	661.400	1185.000	656.600	1187.000	655.100	1195.000	656.400	1200.000	659.800	1202.000
GR	659.900	1300.000	660.400	1321.000	662.200	1400.000	667.300	1500.000	675.800	1600.000
GR	676.600	1605.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
QT	5.000	1270.000	2200.000	2770.000	4070.000	2770.000	0.0	0.0	0.0	0.0

M

X1	12760.000 12760.000	15.000	1175.000	1198.000	364.000 490.000	364.000 490.000	364.000 490.000	0.0	0.0	0.0
GR	677.400	1000.000	668.800	1035.000	661.700	1100.000	662.600	1175.000	657.400	1181.000
GR	656.000	1186.000	667.400	1195.000	662.600	1198.000	662.600	1200.000	663.700	1300.000
GR	666.700	1400.000	666.100	1500.000	668.600	1600.000	673.000	1700.000	677.300	1750.000
QT	5.000	1250.000	2160.000	2760.000	4060.000	2760.000	0.0	0.0	0.0	0.0

N

X1	13100.000 13100.000	13.000	1100.000	1192.000	365.000 400.000	365.000 400.000	365.000 400.000	0.0	0.0	0.0
GR	678.600	1000.000	672.300	1042.000	660.300	1100.000	659.600	1102.000	657.400	1133.000
GR	660.100	1164.000	663.700	1192.000	664.000	1200.000	666.200	1300.000	669.300	1400.000
GR	672.000	1500.000	675.100	1600.000	678.600	1650.000	0.0	0.0	0.0	0.0

X1	13200.000 13200.000	16.000	1245.000	1400.000	200.000	200.000	200.000	0.0	-0.800	0.0
GR	703.500	1000.000	689.000	1090.000	679.400	1095.000	675.100	1100.000	671.000	1200.000
GR	664.800	1245.000	661.800	1255.000	661.800	1347.000	664.800	1400.000	668.700	1500.000
GR	672.300	1600.000	677.600	1700.000	682.200	1800.000	686.100	1900.000	689.000	1919.000
GR	700.000	2000.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

X1	13300.000 13300.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.800	0.0
SS	0.900	1.500	2.500	0.0	0.100	0.010	0.100	0.0	0.0	0.0

RDND CITY LAKE DAM MXLCEL 0 RDELV 684.5

13750
 X1 13449.000 0.0 0.0 0.0 100.000 100.000 100.000 0.0 0.0 0.0
 X2 0.0 0.0 1.000 0.0 0.0 0.0 0.0 0.0 0.0 0.0
 BT 9.000 1000.000 703.500 0.0 1090.000 689.000 0.0 1255.000 688.900 0.0
 BT 1267.000 688.900 0.0 1268.000 684.500 0.0 1346.000 684.500 0.0 1347.000
 BT 689.000 0.0 1919.000 689.000 0.0 2000.000 700.000 0.0 0.0 0.0

13800
 X1 13449.000 0.0 0.0 0.0 50.000 50.000 50.000 0.0 0.800 0.0
 BT 5.000 1200.000 2100.000 2600.000 3800.000 2600.000 0.0 0.0 0.0 0.0

19200
 X1 13449.000 17.000 1465.000 1476.000 5000.000 4950.000 4950.000 0.0 0.0 0.0
 GR 701.200 1000.000 696.400 1027.000 687.830 1100.000 686.300 1106.000 685.500 1200.000
 GR 686.100 1300.000 685.700 1400.000 686.900 1465.000 685.900 1466.000 685.300 1470.000
 GR 686.100 1475.000 687.100 1476.000 686.700 1500.000 686.300 1577.000 689.200 1600.000
 GR 699.300 1700.000 703.100 1744.000 0.0 0.0 0.0 0.0 0.0 0.0
 BT 5.000 1130.000 1990.000 2450.000 3700.000 2450.000 0.0 0.0 0.0 0.0

21100
 X1 20790.000 12.000 1168.000 1193.000 2350.000 2350.000 2350.000 0.0 0.0 0.0
 GR 708.800 1000.000 692.500 1100.000 693.400 1168.000 690.900 1169.000 689.600 1175.000
 GR 690.800 1189.000 693.800 1193.000 693.600 1200.000 691.800 1300.000 692.100 1361.000
 GR 701.300 1400.000 706.000 1428.000 0.0 0.0 0.0 0.0 0.0 0.0
 BT 5.000 1100.000 1920.000 2370.000 3590.000 2370.000 0.0 0.0 0.0 0.0

23700
 X1 23460.000 12.000 1200.000 1230.000 2670.000 2670.000 2670.000 0.0 0.0 0.0
 GR 721.800 1000.000 712.100 1070.000 710.000 1100.000 706.300 1200.000 702.400 1203.000
 GR 701.100 1215.000 702.600 1227.000 706.500 1230.000 706.500 1300.000 706.700 1334.000
 GR 713.900 1400.000 721.800 1467.000 0.0 0.0 0.0 0.0 0.0 0.0
 BT 5.000 1090.000 1910.000 2360.000 3580.000 2360.000 0.0 0.0 0.0 0.0

25139
 X1 24872.000 12.000 1395.000 1409.000 1419.000 1419.000 1419.000 0.0 0.0 0.0
 GR 726.300 1000.000 719.500 1100.000 712.900 1200.000 711.700 1300.000 712.400 1395.000
 GR 707.400 1399.000 706.200 1403.000 707.100 1406.000 712.000 1409.000 714.700 1500.000
 GR 716.700 1600.000 726.400 1678.000 0.0 0.0 0.0 0.0 0.0 0.0
 NC 0.050 0.060 0.040 0.100 0.300 0.0 0.0 0.0 0.0 0.0

25189
 X1 24929.000 18.000 1418.000 1441.000 50.000 50.000 50.000 0.0 0.0 0.0
 GR 732.900 1000.000 726.700 1100.000 721.600 1200.000 718.700 1300.000 717.600 1400.000
 GR 717.400 1418.000 711.500 1418.000 709.300 1423.000 707.000 1424.000 706.500 1429.000
 GR 706.700 1439.000 708.100 1440.000 708.100 1441.000 717.400 1441.000 718.700 1500.000
 GR 724.100 1600.000 731.700 1700.000 732.900 1712.000 0.0 0.0 0.0 0.0
 SB 0.900 1.500 2.500 0.0 23.000 0.010 181.000 0.0 0.0 0.0

RDND MCSR 1832 MXLCEL 715.5 RDELV 717.4

25211
 X1 24951.000 0.0 0.0 0.0 22.000 22.000 22.000 0.0 0.0 0.0
 X2 0.0 0.0 1.000 715.500 717.400 0.0 0.0 0.0 0.0 0.0
 BT 11.000 1000.000 732.900 0.0 1100.000 726.700 0.0 1200.000 721.600 0.0
 BT 1300.000 718.700 0.0 1400.000 717.600 0.0 1418.000 717.400 715.500 1441.000
 BT 717.400 715.500 1500.000 718.700 0.0 1600.000 724.100 0.0 1700.000 731.700
 BT 0.0 1712.000 732.900 0.0 0.0 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

25261
 X1 25001.000 12.000 1395.000 1409.000 50.000 50.000 50.000 0.0 0.600 0.0
 GR 726.300 1000.000 719.500 1100.000 712.900 1200.000 711.700 1300.000 712.400 1395.000
 GR 707.400 1399.000 706.200 1403.000 707.100 1406.000 712.000 1409.000 714.700 1500.000
 GR 716.700 1600.000 726.400 1678.000 0.0 0.0 0.0 0.0 0.0 0.0
 BT 5.000 1050.000 1850.000 2220.000 3400.000 2220.000 0.0 0.0 0.0 0.0

26000
 X1 25915.000 15.000 1346.000 1377.000 931 938 931 0.0 0.0 0.0
 GR 728.900 1000.000 722.500 1100.000 717.600 1200.000 715.100 1264.000 716.900 1300.000
 GR 714.200 1346.000 711.400 1348.000 710.800 1355.000 711.500 1368.000 715.600 1377.000
 GR 714.900 1400.000 715.300 1500.000 717.700 1574.000 722.100 1600.000 728.900 1681.000
 QT 5.000 1000.000 1760.000 2200.000 3300.000 2200.000 0.0 0.0 0.0 0.0

27337
 X1 27027.000 11.000 1300.000 1334.000 1137 1137 1137 0.0 0.0 0.0
 GR 738.000 1000.000 729.700 1100.000 725.900 1200.000 724.800 1270.000 723.900 1300.000
 GR 719.400 1306.000 718.900 1318.000 719.600 1332.000 723.700 1334.000 728.600 1400.000
 GR 738.200 1456.000 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
 NC 0.060 0.060 0.040 0.100 0.300 0.0 0.0 0.0 0.0 0.0

27387
 X1 27077.000 16.000 1392.000 1416.000 50.000 50.000 50.000 0.0 0.0 0.0
 GR 743.500 1000.000 738.300 1100.000 733.800 1200.000 730.000 1300.000 728.800 1392.000
 GR 722.200 1392.000 722.200 1393.000 720.700 1394.000 719.300 1404.000 720.200 1410.000
 GR 722.900 1415.000 722.900 1416.000 728.800 1416.000 730.800 1500.000 739.400 1600.000
 GR 743.500 1655.000 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
 SB 0.900 1.500 2.500 0.0 24.000 0.010 148.000 0.0 0.0 0.0

27400 RDNQ NCSR 1837 MXLCEL 726.7 RDELV 728.8
 X1 27403.000 0.0 0.0 0.0 26.000 26.000 26.000 0.0 0.0 0.0
 X2 0.0 0.0 1.000 726.700 728.800 0.0 0.0 0.0 0.0 0.0
 BT 9.000 1000.000 743.500 0.0 1100.000 738.300 0.0 1200.000 733.800 0.0
 BT 1300.000 730.000 0.0 1392.000 728.800 726.700 1416.000 728.800 726.700 1500.000
 BT 730.800 0.0 1600.000 739.400 0.0 1655.000 743.500 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

27462
 X1 27463.000 11.000 1300.000 1334.000 50.000 50.000 50.000 0.0 0.600 0.0
 GR 738.000 1000.000 729.700 1100.000 725.900 1200.000 724.800 1270.000 723.900 1300.000
 GR 719.400 1306.000 718.900 1318.000 719.600 1332.000 723.700 1334.000 728.600 1400.000
 GR 738.200 1456.000 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
 QT 5.000 970.000 1720.000 2150.000 3200.000 2150.000 0.0 0.0 0.0 0.0

29810
 X1 29348.000 12.000 1262.000 1281.000 2337 2337 2337 0.0 0.0 0.0
 GR 748.400 1000.000 739.500 1100.000 733.700 1200.000 733.000 1262.000 729.900 1265.000
 GR 729.400 1272.000 730.100 1278.000 732.100 1281.000 733.500 1300.000 732.800 1400.000
 GR 732.200 1500.000 748.500 1569.000 0.0 0.0 0.0 0.0 0.0 0.0

30250
 X1 30730.000 0.0 0.0 0.0 1450.000 1450.000 1450.000 0.0 3.700 0.0
 QT 5.000 950.000 1680.000 2100.000 3075.000 2100.000 0.0 0.0 0.0 0.0

32600
 X1 32140.000 14.000 1230.000 1265.000 1350.000 1350.000 1350.000 0.0 0.0 0.0
 GR 753.300 1000.000 754.400 1050.000 747.800 1076.000 745.600 1100.000 741.600 1200.000
 GR 743.500 1230.000 738.100 1233.000 736.700 1247.000 738.300 1254.000 743.100 1265.000
 GR 743.400 1300.000 742.000 1400.000 742.300 1418.000 758.700 1464.000 0.0 0.0

34200
 X1 33740.000 0.0 0.0 0.0 1600.000 1600.000 1600.000 0.0 4.850 0.0
 QT 5.000 380.000 1500.000 1940.000 2840.000 1940.000 0.0 0.0 0.0 0.0

35000
 X1 35340.000 12.000 1250.000 1283.000 1400 1400 1400 0.0 0.0 0.0
 GR 767.400 1000.000 758.800 1100.000 754.700 1200.000 752.700 1250.000 747.700 1258.000
 GR 746.400 1266.000 747.400 1290.000 751.800 1283.000 752.100 1300.000 755.500 1400.000
 GR 761.200 1500.000 767.900 1521.000 0.0 0.0 0.0 0.0 0.0 0.0
 QT 5.000 050.000 1600.000 1850.000 2800.000 1850.000 0.0 0.0 0.0 0.0

35170
X1 37630.000 16.000 1406.000 1428.000 2590.000 2590.000 2590.000 0.0 0.0 0.0
GR 773.900 1000.000 764.200 1100.000 762.600 1200.000 760.900 1300.000 760.300 1385.000
GR 758.900 1400.000 758.700 1406.000 755.100 1409.000 754.300 1418.000 754.900 1424.000
GR 759.400 1428.000 758.900 1432.000 762.200 1500.000 767.400 1600.000 770.300 1700.000
GR 773.800 1795.000 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
NC 0.060 0.060 0.040 0.100 0.300 0.0 0.0 0.0 0.0 0.0

35240
X1 37640.000 21.000 1404.000 1434.000 50.000 50.000 50.000 0.0 0.0 0.0
GR 773.400 1000.000 772.500 1100.000 767.500 1200.000 764.800 1300.000 764.200 1400.000
GR 764.100 1404.000 756.300 1404.000 756.000 1407.000 754.900 1409.000 754.400 1419.000
GR 754.800 1424.000 759.800 1427.000 760.600 1434.000 764.100 1434.000 764.800 1500.000
GR 767.200 1600.000 770.200 1700.000 772.700 1800.000 774.400 1900.000 776.900 2000.000
GR 779.400 2075.000 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
SB 0.950 1.500 2.500 0.0 30.000 1.000 175.000 0.0 0.0 0.0

35250
RDND NCSR 1821 MXLCEL 762.5 RDELV 764.1

35260
X1 37700.000 0.0 0.0 0.0 20.000 20.000 20.000 0.0 0.0 0.0
X2 0.0 0.0 1.000 762.500 764.100 0.0 0.0 0.0 0.0 0.0
BT 14.000 1000.000 779.400 0.0 1100.000 772.500 0.0 1200.000 767.500 0.0
BT 1300.000 764.800 0.0 1400.000 764.200 0.0 1404.000 764.100 762.500 1434.000
BT 764.100 762.500 1500.000 764.800 0.0 1600.000 767.200 0.0 1700.000 770.200
BT 0.0 1800.000 772.700 0.0 1900.000 774.400 0.0 2000.000 776.900 0.0
BT 2075.000 779.400 0.0 0.0 0.0 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

35310
X1 37750.000 16.000 1406.000 1428.000 50.000 50.000 50.000 0.0 0.200 0.0
GR 773.900 1000.000 764.200 1100.000 762.600 1200.000 760.900 1300.000 760.300 1385.000
GR 758.900 1400.000 758.700 1406.000 755.100 1409.000 754.300 1418.000 754.900 1424.000
GR 759.400 1428.000 758.900 1432.000 762.200 1500.000 767.400 1600.000 770.300 1700.000
GR 773.800 1795.000 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
BT 5.000 620.000 1125.000 1450.000 2150.000 1450.000 0.0 0.0 0.0 0.0

35320
X1 37760.000 16.000 1450.000 1464.000 1500.000 1500.000 1500.000 0.0 0.0 0.0
GR 770.400 1000.000 769.800 1085.000 769.000 1100.000 767.600 1200.000 764.300 1300.000
GR 764.000 1400.000 764.900 1450.000 760.400 1454.000 760.000 1457.000 760.600 1459.000
GR 765.400 1464.000 764.700 1500.000 764.600 1533.000 771.800 1600.000 774.000 1700.000
GR 774.300 1800.000 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
BT 5.000 590.000 1100.000 1350.000 2025.000 1350.000 0.0 0.0 0.0 0.0

40723
X1 40723.000 13.000 1268.000 1325.000 928.000 928.000 928.000 0.0 0.0 0.0
GR 784.400 1000.000 775.800 1100.000 769.100 1200.000 769.400 1288.000 766.000 1291.000
GR 762.800 1312.000 766.200 1322.000 771.100 1325.000 769.500 1400.000 770.400 1470.000
GR 771.300 1500.000 762.100 1600.000 766.100 1655.000 0.0 0.0 0.0 0.0
NC 0.060 0.060 0.040 0.100 0.300 0.0 0.0 0.0 0.0 0.0

40753
X1 40223.000 12.000 1468.000 1486.000 50.000 50.000 50.000 0.0 0.0 0.0
GR 790.200 1000.000 784.900 1100.000 780.400 1200.000 776.700 1300.000 774.300 1400.000
GR 778.800 1468.000 766.500 1468.000 766.200 1469.000 765.900 1470.000 765.500 1477.000
GR 766.100 1479.000 768.000 1482.000 769.000 1486.000 774.800 1486.000 774.700 1500.000
GR 774.900 1600.000 779.000 1700.000 785.600 1800.000 790.300 1867.000 0.0 0.0
SB 0.900 1.500 2.500 0.0 18.000 0.010 117.000 0.0 0.0 0.0

40800
RDND NCSR 1815 MXLCEL 773.1 RDELV 774.8

40817
X1 40252.000 0.0 0.0 0.0 24.000 24.000 24.000 0.0 0.0 0.0
X2 0.0 0.0 1.000 773.100 774.300 0.0 0.0 0.0 0.0 0.0

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

T1 DAVIDSON COUNTY BASIN I STRM 14 LEONARD CREEK
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6916
 T3 50 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FG
	-10.	3.	0.	0.	0.016000	0.0	0.0	0.	634.500	0.0

J2	NPROF	IPLT	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 110.000

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
	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

3720 CRITICAL DEPTH ASSUMED

110.00	8.60	637.10	637.10	634.50	639.46	2.36	0.0	0.0	635.90
3670.	183.	3301.	186.	58.	255.	39.	0.	0.	632.50
0.0	3.14	12.93	4.72	0.055	0.035	0.055	0.0	628.50	1031.10
0.007549	110.	110.	110.	0	11	0	0.0	87.66	1118.76

CCHV= 0.100 CEHV= 0.300

*SECNO 135.000

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

135.00	8.38	637.08	637.08	0.0	640.97	5.89	0.29	0.46	638.30
3670.	0.	3670.	0.	0.	232.	0.	0.	0.	638.30
0.00	0.0	15.82	0.0	0.060	0.040	0.060	0.058	628.70	1717.00
0.019624	25.	25.	25.	20	8	0	0.0	30.00	1747.00

SPECIAL BRIDGE

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

T1 DAVIDSON COUNTY BASIN I STRM 14 LEONARD CREEK
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918
 T3 100 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INO	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-10.	4.	0.	0.	0.016000	0.0	0.0	0.	636.500	0.0

J2	NPROF	IPILOT	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 110.000

SECNO	DEPTH	WSEL	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
3720	CRITICAL DEPTH ASSUMED								
110.00	9.62	638.12	638.12	636.50	640.70	2.59	0.0	0.0	635.90
4750.	424.	4024.	303.	100.	290.	55.	0.	0.	632.50
0.0	4.22	13.88	5.47	0.055	0.035	0.055	0.0	628.50	1027.61
0.007340	110.	110.	110.	0	11	0	0.0	92.91	1120.52

CCHV= 0.100 CEHV= 0.300

*SECNO 135.000

3301 HV CHANGED MORE THAN HVINS

SECNO	DEPTH	WSEL	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

3665 20 TRIALS ATTEMPTED WSEL, WSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

135.00	12.10	640.80	640.80	0.0	642.42	1.62	0.17	0.10	638.30
4750.	516.	3666.	358.	188.	344.	129.	0.	0.	638.30
0.00	2.74	11.25	2.86	0.060	0.040	0.060	0.038	628.70	1593.05
0.006319	25.	25.	25.	20	15	0	0.0	236.97	1830.01

SPECIAL BRIDGE

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

T1 DAVIDSON COUNTY BASIN I STRM 14 LEONARD CREEK
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918
 T3 500 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	ING	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-10.	5.	0.	0.	0.016000	0.0	0.0	0.	637.500	0.0

J2	MPROF	IPLOT	PREVS	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 110.000

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	QLOSS	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
3720	CRITICAL DEPTH ASSUMED								
110.00	11.18	639.68	639.68	637.50	642.77	3.09	0.0	0.0	635.90
6900.	978.	5374.	548.	169.	343.	83.	0.	0.	632.50
0.0	5.79	15.66	6.59	0.055	0.035	0.055	0.0	628.50	1024.57
0.007475	110.	110.	110.	0	11	0	0.0	98.64	1123.21

CCHV= 0.100 CEHV= 0.300
 *SECNO 135.000

3301 HV CHANGED MORE THAN HVINS

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	QLOSS	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

135.00	13.09	341.79	641.79	0.0	643.64	1.86	0.19	0.12	638.30
6900.	1250.	4798.	852.	318.	373.	220.	0.	0.	638.30
0.00	3.94	12.86	3.87	0.060	0.040	0.060	0.038	628.70	1579.34
0.007390	25.	25.	25.	20	6	0	0.0	270.42	1849.76

 HEC2 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

10 YEAR FLOOD WATER SURF

SUMMARY PRINTOUT

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628.5 ✓
 628.5 ✓
 628.5 ✓
 628.5 ✓

	SECCNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRIWS	VCH	SSTA	ENDST	AREA	DIFWSP
*	110.000	110.00	0.0	0.0	2250.00	628.50	634.71	634.71	12.72	1070.76	1112.82	184.25	0.0
A*	110.000	110.00	0.0	0.0	3670.00	628.50	637.10	637.10	12.93	1031.10	1118.76	353.11	2.39
*	110.000	110.00	0.0	0.0	4750.00	628.50	638.12	638.12	13.88	1027.61	1120.52	445.65	1.02
*	110.000	110.00	0.0	0.0	6900.00	628.50	639.68	639.68	15.66	1024.57	1123.21	595.14	1.56
*	135.000	25.00	0.0	0.0	2250.00	628.70	634.92	634.92	13.45	1717.00	1747.00	167.25	0.0
*	135.000	25.00	0.0	0.0	3670.00	628.70	637.08	637.08	15.82	1717.00	1747.00	231.94	2.16
*	135.000	25.00	0.0	0.0	4750.00	628.70	640.80	640.80	11.25	1593.05	1830.01	660.60	3.72
*	135.000	25.00	0.0	0.0	6900.00	628.70	641.79	641.79	12.86	1579.34	1849.76	911.01	0.99
	148.000	13.00	638.30	636.30	2250.00	628.70	634.93	0.0	13.43	1717.00	1747.00	167.49	0.0
	148.000	13.00	638.30	636.30	3670.00	628.70	637.30	0.0	15.37	1717.00	1747.00	238.82	2.37
	148.000	13.00	638.30	636.30	4750.00	628.70	640.94	0.0	10.86	1591.03	1832.92	675.43	3.64
	148.000	13.00	638.30	636.30	6900.00	628.70	642.21	0.0	11.61	1573.36	1858.36	1030.55	1.27
*	165.000	17.00	0.0	0.0	2250.00	629.50	635.73	635.73	12.66	1070.74	1112.92	185.26	0.0
	165.000	17.00	0.0	0.0	3670.00	629.50	640.35	638.09	8.74	1025.19	1122.66	563.73	4.62
	165.000	17.00	0.0	0.0	4750.00	629.50	641.33	0.0	9.81	1023.29	1124.35	660.86	0.98
	165.000	17.00	0.0	0.0	6900.00	629.50	641.76	0.0	13.45	1022.46	1125.09	704.44	0.43
*	225.000	60.00	0.0	0.0	2230.00	630.40	636.58	636.58	12.67	1070.77	1112.73	183.27	0.0
	225.000	60.00	0.0	0.0	3650.00	630.40	640.23	0.0	10.27	1027.18	1120.89	465.92	3.65
	225.000	60.00	0.0	0.0	4730.00	630.40	641.21	0.0	11.35	1025.28	1122.58	559.51	0.97
*	225.000	60.00	0.0	0.0	6870.00	630.40	641.56	641.56	15.63	1024.60	1123.19	593.72	0.36
	275.000	50.00	0.0	0.0	2230.00	631.20	639.16	0.0	4.40	1600.00	1709.90	506.35	0.0
	275.000	50.00	0.0	0.0	3650.00	631.20	641.50	0.0	4.72	1600.00	1714.00	772.99	2.35
	275.000	50.00	0.0	0.0	4730.00	631.20	642.66	0.0	5.23	1600.00	1714.00	905.10	1.16
	275.000	50.00	0.0	0.0	6870.00	631.20	644.45	0.0	6.20	1600.00	1714.00	1107.89	1.78
	305.000	30.00	673.60	665.50	2230.00	631.20	639.16	0.0	4.40	1600.00	1709.94	507.28	0.0
	305.000	30.00	673.60	665.50	3650.00	631.20	641.50	0.0	4.72	1600.00	1714.00	773.01	2.35
	305.000	30.00	673.60	665.50	4730.00	631.20	642.66	0.0	5.23	1600.00	1714.00	905.19	1.16
	305.000	30.00	673.60	665.50	6870.00	631.20	644.45	0.0	6.20	1600.00	1714.00	1108.39	1.78
B*	355.000	50.00	0.0	0.0	2230.00	632.00	638.20	638.20	12.64	1070.76	1112.78	183.83	0.0
*	355.000	50.00	0.0	0.0	3650.00	632.00	640.56	640.56	12.95	1031.35	1118.70	349.99	2.36
*	355.000	50.00	0.0	0.0	4730.00	632.00	641.60	641.60	13.86	1027.64	1120.49	444.07	1.04
*	355.000	50.00	0.0	0.0	6870.00	632.00	643.15	643.15	15.65	1024.61	1123.18	593.00	1.56

	SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRWS	VCH	SSTA	ENDST	AREA	DIFWSP
C	2300.000	1945.00	0.0	0.0	2210.00	633.40	643.22	0.0	3.29	1020.22	1536.46	1495.98	0.0
	2300.000	1945.00	0.0	0.0	3630.00	633.40	644.85	0.0	3.18	1017.56	1758.39	2500.83	1.63
	2300.000	1945.00	0.0	0.0	4710.00	633.40	645.88	0.0	3.11	1015.90	1908.86	3340.52	1.03
	2300.000	1945.00	0.0	0.0	6850.00	633.40	647.66	0.0	2.95	1012.98	2001.15	5024.80	1.78
	4233												
*	3983.000	1683.00	0.0	0.0	2200.00	638.10	646.19	646.19	8.60	1577.52	1870.73	416.50	0.0
D	3983.000	1683.00	0.0	0.0	3620.00	638.10	647.09	647.09	9.62	1536.83	1899.63	707.21	0.90
*	3983.000	1683.00	0.0	0.0	4700.00	638.10	647.60	647.60	10.11	1513.47	2200.73	938.76	0.51
*	3983.000	1683.00	0.0	0.0	6840.00	638.10	648.36	648.36	10.43	1388.79	2332.13	1537.77	0.75
	4083												
	4083.000	100.00	0.0	0.0	2200.00	638.70	647.06	0.0	5.20	2423.51	2492.05	423.37	0.0
	4083.000	100.00	0.0	0.0	3620.00	638.70	647.54	0.0	7.92	2422.78	2492.98	456.80	0.48
	4083.000	100.00	0.0	0.0	4700.00	638.70	647.77	0.0	9.94	2422.43	2493.43	473.06	0.23
*	4083.000	100.00	0.0	0.0	6840.00	638.70	647.70	647.70	14.62	2422.54	2493.29	467.87	-0.07
	4367												
	4117.000	34.00	658.00	661.70	2200.00	638.70	647.10	0.0	5.16	2423.44	2492.14	426.47	0.0
	4117.000	34.00	658.00	661.70	3620.00	638.70	647.71	0.0	7.73	2422.53	2493.30	468.39	0.60
	4117.000	34.00	658.00	661.70	4700.00	638.70	648.11	0.0	9.45	2421.91	2494.09	497.50	0.41
	4117.000	34.00	658.00	661.70	6840.00	638.70	649.08	0.0	12.02	2420.43	2495.97	569.20	0.97
	4382												
	4132.000	15.00	0.0	0.0	2200.00	638.80	647.12	0.0	5.22	2423.56	2491.99	421.14	0.0
	4132.000	15.00	0.0	0.0	3620.00	638.80	647.74	0.0	7.80	2422.62	2493.18	463.96	0.62
	4132.000	15.00	0.0	0.0	4700.00	638.80	648.17	0.0	9.51	2421.97	2494.01	494.42	0.43
	4132.000	15.00	0.0	0.0	6840.00	638.80	649.18	0.0	12.02	2420.43	2495.97	569.04	1.01
	4397												
	4147.000	15.00	0.0	0.0	2200.00	638.90	647.14	0.0	5.29	2423.68	2491.83	415.58	0.0
	4147.000	15.00	0.0	0.0	3620.00	638.90	647.78	0.0	7.86	2422.70	2493.08	460.45	0.65
	4147.000	15.00	0.0	0.0	4700.00	638.90	648.23	0.0	9.55	2422.01	2493.95	492.36	0.45
	4147.000	15.00	0.0	0.0	6840.00	638.90	649.29	0.0	12.02	2420.43	2495.97	569.27	1.05
	4431												
	4181.000	34.00	658.20	661.90	2200.00	638.90	647.19	0.0	5.26	2423.62	2491.91	418.45	0.0
	4181.000	34.00	658.20	661.90	3620.00	638.90	647.94	0.0	7.69	2422.47	2493.38	471.04	0.76
	4181.000	34.00	658.20	661.90	4700.00	638.90	648.53	0.0	9.16	2421.58	2494.51	513.14	0.59
	4181.000	34.00	658.20	661.90	6840.00	638.90	649.89	0.0	11.07	2419.50	2504.65	617.92	1.36
	4531												
*	4281.000	100.00	0.0	0.0	2200.00	639.10	647.19	647.19	8.63	1577.84	1870.71	414.53	0.0
E	4281.000	100.00	0.0	0.0	3620.00	639.10	648.68	0.0	7.55	1510.09	2215.61	984.96	1.50
	4281.000	100.00	0.0	0.0	4700.00	639.10	649.95	0.0	5.43	1346.55	2100.31	2129.66	1.26
	4281.000	100.00	0.0	0.0	6840.00	639.10	652.01	0.0	3.66	1217.10	2413.41	4454.14	2.06
	4731												
F	4739.000	458.00	0.0	0.0	2200.00	640.70	649.70	0.0	7.87	1121.95	1415.89	582.60	0.0
	4739.000	458.00	0.0	0.0	3620.00	640.70	650.28	0.0	9.86	1119.74	1429.18	758.94	0.58
	4739.000	458.00	0.0	0.0	4700.00	640.70	650.43	0.0	12.04	1119.19	1432.49	804.30	0.15
	4739.000	458.00	0.0	0.0	6840.00	640.70	652.00	0.0	10.13	1113.20	1468.44	1333.04	1.58
	5039												
	4839.000	100.00	0.0	0.0	2200.00	641.50	650.23	0.0	4.29	1584.52	1682.30	513.24	0.0
	4839.000	100.00	0.0	0.0	3620.00	641.50	650.86	0.0	6.23	1582.53	1691.30	581.19	0.64
	4839.000	100.00	0.0	0.0	4700.00	641.50	651.25	0.0	7.53	1581.31	1692.53	623.88	0.38
	4839.000	100.00	0.0	0.0	6840.00	641.50	651.98	0.0	9.68	1579.02	1694.84	706.82	0.73
	5061												
	4861.000	22.00	662.00	659.00	2200.00	641.50	650.24	0.0	4.28	1584.48	1689.33	514.48	0.0
	4861.000	22.00	662.00	659.00	3620.00	641.50	650.90	0.0	6.19	1582.41	1691.42	585.23	0.66
	4861.000	22.00	662.00	659.00	4700.00	641.50	651.32	0.0	7.45	1581.10	1692.74	631.26	0.42
	4861.000	22.00	662.00	659.00	6840.00	641.50	652.15	0.0	9.42	1578.50	1695.35	725.85	0.83

	SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRIWS	VCH	SSTA	ENDST	AREA	DIFWSP
G*	5161												
*	4961.000	100.00	0.0	0.0	2200.00	642.30	651.01	651.01	9.18	1123.05	1409.25	497.87	0.0
*	4961.000	100.00	0.0	0.0	3620.00	642.30	651.66	651.66	10.91	1120.60	1423.99	689.02	0.65
*	4961.000	100.00	0.0	0.0	4700.00	642.30	652.06	652.06	11.91	1119.09	1433.08	812.47	0.40
*	4961.000	100.00	0.0	0.0	6840.00	642.30	653.37	0.0	10.91	1114.13	1462.84	1246.35	1.31
H	6500												
	6500.000	1639.00	0.0	0.0	2000.00	644.60	653.79	0.0	3.09	1121.17	1423.10	1170.52	0.0
	6500.000	1639.00	0.0	0.0	3280.00	644.60	655.02	0.0	3.77	1101.46	1432.87	1557.47	1.22
	6500.000	1639.00	0.0	0.0	4020.00	644.60	655.68	0.0	4.00	1094.51	1438.25	1784.64	0.67
	6500.000	1639.00	0.0	0.0	6020.00	644.60	656.76	0.0	4.87	1084.26	1446.95	2168.39	1.08
I	8950												
	8950.000	2350.00	0.0	0.0	1990.00	648.60	655.63	0.0	4.58	1123.58	1597.19	977.90	0.0
	8950.000	2350.00	0.0	0.0	3250.00	648.60	656.81	0.0	4.26	1110.06	1602.23	1552.54	1.19
	8950.000	2350.00	0.0	0.0	4000.00	648.60	657.41	0.0	4.23	1103.26	1604.82	1849.72	0.60
	8950.000	2350.00	0.0	0.0	6000.00	648.60	658.67	0.0	4.42	1091.36	1610.26	2490.63	1.25
J	10587												
	10587.000	1637.00	0.0	0.0	1290.00	650.80	656.83	0.0	1.94	1124.18	1687.63	1374.71	0.0
	10587.000	1637.00	0.0	0.0	2220.00	650.80	657.83	0.0	2.24	1106.63	1751.71	1974.16	1.00
	10587.000	1637.00	0.0	0.0	2790.00	650.80	658.36	0.0	2.35	1099.60	1789.95	2332.17	0.53
	10587.000	1637.00	0.0	0.0	4090.00	650.80	659.53	0.0	2.46	1096.68	1836.77	3171.70	1.17
*	10687												
*	10687.000	100.00	0.0	0.0	1290.00	651.00	658.96	658.96	12.39	1428.84	1450.85	104.09	0.0
*	10687.000	100.00	0.0	0.0	2220.00	651.00	660.99	660.99	14.93	1428.84	1450.85	148.69	2.03
*	10687.000	100.00	0.0	0.0	2790.00	651.00	662.10	662.10	16.11	1428.84	1450.85	173.22	1.11
*	10687.000	100.00	0.0	0.0	4090.00	651.00	666.52	666.52	9.66	1269.93	1769.08	837.34	4.41
*	10713												
*	10713.000	26.00	664.10	662.50	1290.00	651.00	658.97	0.0	17.44	1304.47	1320.10	73.97	0.0
*	10713.000	26.00	664.10	662.50	2220.00	651.00	666.19	0.0	8.14	1198.00	1531.05	517.47	7.22
*	10713.000	26.00	664.10	662.50	2790.00	651.00	666.90	0.0	7.41	1184.28	1558.61	768.86	0.71
*	10713.000	26.00	664.10	662.50	4090.00	651.00	667.09	0.0	9.97	1180.56	1562.64	841.53	0.19
	10813												
	10813.000	100.00	0.0	0.0	1290.00	653.00	664.16	0.0	0.47	1090.60	1915.34	5079.92	0.0
	10813.000	100.00	0.0	0.0	2220.00	653.00	666.99	0.0	0.53	1069.94	1981.15	7523.82	2.83
	10813.000	100.00	0.0	0.0	2790.00	653.00	667.43	0.0	0.63	1062.74	1991.47	7932.15	0.44
	10813.000	100.00	0.0	0.0	4090.00	653.00	668.01	0.0	0.86	1053.33	2006.88	8477.73	0.58
K	12289												
	12140.000	1327.00	0.0	0.0	1270.00	655.10	664.17	0.0	2.15	1107.47	1438.76	1139.56	0.0
	12140.000	1327.00	0.0	0.0	2200.00	655.10	667.00	0.0	1.82	1087.00	1494.12	2179.81	2.83
	12140.000	1327.00	0.0	0.0	2770.00	655.10	667.44	0.0	2.10	1033.72	1501.72	2365.96	0.45
	12140.000	1327.00	0.0	0.0	4070.00	655.10	668.03	0.0	2.75	1031.54	1508.70	2628.97	0.59
	12387												
	12240.000	100.00	0.0	0.0	1270.00	655.90	663.95	0.0	5.17	1389.00	1423.00	245.52	0.0
	12240.000	100.00	0.0	0.0	2200.00	655.90	666.89	0.0	4.40	1267.04	1944.32	1100.07	2.94
	12240.000	100.00	0.0	0.0	2770.00	655.90	667.36	0.0	4.49	1252.80	1987.03	1431.71	0.47
	12240.000	100.00	0.0	0.0	4070.00	655.90	667.96	0.0	5.10	1234.60	2035.22	1893.00	0.60
	12410												
	12261.000	21.00	665.40	663.80	1270.00	655.90	664.28	0.0	4.94	1389.00	1423.00	257.00	0.0
	12261.000	21.00	665.40	663.80	2200.00	655.90	666.89	0.0	4.40	1267.02	1944.36	1100.36	2.60
	12261.000	21.00	665.40	663.80	2770.00	655.90	667.36	0.0	4.48	1252.75	1987.17	1432.88	0.47
	12261.000	21.00	665.40	663.80	4070.00	655.90	667.96	0.0	5.09	1234.53	2035.39	1894.76	0.60
	12510												
	12361.000	100.00	0.0	0.0	1270.00	655.90	664.72	0.0	2.35	1109.03	1433.76	1055.85	0.0
	12361.000	100.00	0.0	0.0	2200.00	655.90	667.12	0.0	2.10	1092.50	1480.84	1910.55	2.40
	12361.000	100.00	0.0	0.0	2770.00	655.90	667.57	0.0	2.41	1088.91	1489.52	2085.16	0.44
	12361.000	100.00	0.0	0.0	4070.00	655.90	668.18	0.0	3.13	1033.98	1500.90	2336.36	0.61

	SECMO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRWS	VCH	SSTA	ENJST	AREA	DIFWSP
	13000												
	12725.000	364.00	0.0	0.0	1270.00	656.00	664.82	0.0	4.24	1071.46	1341.37	595.74	0.0
	12725.000	364.00	0.0	0.0	2200.00	656.00	667.18	0.0	3.18	1049.80	1543.33	1469.12	2.37
	12725.000	364.00	0.0	0.0	2770.00	656.00	667.64	0.0	3.48	1045.60	1561.70	1700.95	0.46
	12725.000	364.00	0.0	0.0	4070.00	656.00	668.30	0.0	4.23	1039.58	1587.97	2050.49	0.66
	13400												
	13090.000	365.00	0.0	0.0	1250.00	657.40	665.19	0.0	2.37	1076.81	1249.85	593.98	0.0
	13090.000	365.00	0.0	0.0	2180.00	657.40	667.28	0.0	2.66	1066.24	1334.97	1084.97	2.18
	13090.000	365.00	0.0	0.0	2760.00	657.40	667.74	0.0	3.09	1063.99	1350.00	1214.21	0.46
	13090.000	365.00	0.0	0.0	4060.00	657.40	668.42	0.0	4.03	1060.74	1371.73	1415.24	0.68
	13600												
	13290.000	200.00	0.0	0.0	1250.00	661.00	665.18	0.0	2.24	1236.40	1430.38	577.24	0.0
	13290.000	200.00	0.0	0.0	2180.00	661.00	667.35	0.0	2.32	1220.75	1485.68	1072.17	2.17
	13290.000	200.00	0.0	0.0	2760.00	661.00	667.83	0.0	2.67	1217.23	1498.09	1204.22	0.48
	13290.000	200.00	0.0	0.0	4060.00	661.00	668.57	0.0	3.41	1211.84	1518.56	1422.38	0.73
	13650												
	13340.000	50.00	0.0	0.0	1250.00	661.80	665.18	0.0	2.90	1242.21	1409.87	432.61	0.0
	13340.000	50.00	0.0	0.0	2180.00	661.80	667.34	0.0	2.74	1226.40	1465.51	873.95	2.16
	13340.000	50.00	0.0	0.0	2760.00	661.80	667.83	0.0	3.13	1223.04	1477.59	990.74	0.48
	13340.000	50.00	0.0	0.0	4060.00	661.80	668.55	0.0	3.98	1217.76	1496.24	1183.19	0.73
	13750												
	13440.000	100.00	684.50	0.0	1250.00	661.80	687.93	0.0	0.16	1090.56	1911.99	12768.55	0.0
	13440.000	100.00	684.50	0.0	2180.00	661.80	689.20	0.0	0.25	1088.74	1920.49	13820.04	1.27
	13440.000	100.00	684.50	0.0	2760.00	661.80	689.45	0.0	0.31	1087.21	1922.31	14026.16	0.25
	13440.000	100.00	684.50	0.0	4060.00	661.80	689.89	0.0	0.45	1084.47	1925.56	14395.49	0.44
	13800												
	13490.000	50.00	0.0	0.0	1250.00	662.60	687.93	0.0	0.16	1090.97	1906.75	12113.62	0.0
	13490.000	50.00	0.0	0.0	2180.00	662.60	689.20	0.0	0.26	1090.31	1915.13	13162.52	1.27
	13490.000	50.00	0.0	0.0	2760.00	662.60	689.45	0.0	0.33	1090.18	1916.75	13367.13	0.25
	13490.000	50.00	0.0	0.0	4060.00	662.60	689.89	0.0	0.47	1089.39	1919.73	13733.51	0.44
	18800												
	18440.000	4950.00	0.0	0.0	1200.00	685.30	687.91	0.0	2.17	1098.97	1589.86	882.61	0.0
	18440.000	4950.00	0.0	0.0	2100.00	685.30	689.19	0.0	2.16	1088.14	1599.98	1522.30	1.28
	18440.000	4950.00	0.0	0.0	2600.00	685.30	689.43	0.0	2.47	1086.04	1602.41	1649.06	0.24
	18440.000	4950.00	0.0	0.0	3800.00	685.30	689.87	0.0	3.17	1082.42	1606.64	1871.10	0.44
	21100												
	20790.000	2350.00	0.0	0.0	1130.00	689.60	693.47	693.47	7.77	1094.02	1366.83	284.86	0.0
	20790.000	2350.00	0.0	0.0	1990.00	689.60	693.98	693.98	9.19	1090.92	1368.97	422.05	0.51
	20790.000	2350.00	0.0	0.0	2450.00	689.60	694.17	694.17	9.95	1089.74	1369.79	475.73	0.19
	20790.000	2350.00	0.0	0.0	3700.00	689.60	694.72	694.63	11.06	1086.43	1372.08	628.45	0.55
	23700												
	23460.000	2670.00	0.0	0.0	1100.00	701.10	707.32	0.0	6.53	1172.45	1339.68	247.29	0.0
	23460.000	2670.00	0.0	0.0	1920.00	701.10	708.43	0.0	7.35	1142.51	1349.83	454.79	1.11
	23460.000	2670.00	0.0	0.0	2370.00	701.10	708.90	0.0	7.64	1129.49	1354.25	558.82	0.47
	23460.000	2670.00	0.0	0.0	3590.00	701.10	709.89	0.0	8.48	1103.34	1363.12	793.27	0.99
	25139												
	24879.000	1419.00	0.0	0.0	1090.00	706.20	713.35	0.0	7.45	1193.17	1454.51	432.39	0.0
	24879.000	1419.00	0.0	0.0	1910.00	706.20	714.13	0.0	7.67	1181.31	1480.90	551.93	0.79
	24879.000	1419.00	0.0	0.0	2360.00	706.20	714.47	0.0	7.84	1176.21	1492.26	655.67	0.31
	24879.000	1419.00	0.0	0.0	3580.00	706.20	715.29	0.0	7.96	1163.69	1529.82	936.28	0.82
	25181												
	24929.000	50.00	0.0	0.0	1090.00	706.50	713.22	0.0	8.47	1418.00	1441.00	128.71	0.0
	24929.000	50.00	0.0	0.0	1910.00	706.50	713.58	713.58	13.94	1418.00	1441.00	137.01	0.36
	24929.000	50.00	0.0	0.0	2360.00	706.50	714.51	714.51	14.91	1418.00	1441.00	158.25	0.92
	24929.000	50.00	0.0	0.0	3580.00	706.50	716.66	716.66	17.23	1418.00	1441.00	207.73	2.15

SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRWS	VCH	SSTA	ENDST	AREA	DIFWSP
25211												
24951.000	22.00	717.40	715.50	1090.00	706.50	713.22	0.0	8.47	1418.00	1441.00	128.67	0.0
24951.000	22.00	717.40	715.50	1910.00	706.50	713.59	0.0	13.92	1418.00	1441.00	137.25	0.37
24951.000	22.00	717.40	715.50	2360.00	706.50	715.49	0.0	13.05	1418.00	1441.00	180.88	1.90
24951.000	22.00	717.40	715.50	3580.00	706.50	710.68	0.0	7.55	1231.96	1536.54	867.42	5.19
25001												
25001.000	50.00	0.0	0.0	1090.00	706.80	714.44	713.88	5.27	1185.86	1470.79	464.27	0.0
25001.000	50.00	0.0	0.0	1910.00	706.80	716.92	0.0	2.85	1148.19	1580.99	1345.12	2.48
25001.000	50.00	0.0	0.0	2360.00	706.80	718.40	0.0	2.24	1125.80	1608.83	2030.60	1.48
25001.000	50.00	0.0	0.0	3580.00	706.80	721.32	0.0	1.80	1081.90	1632.42	3547.02	2.92
25915												
25915.000	914.00	0.0	0.0	1050.00	710.80	716.45	0.0	5.12	1229.31	1532.12	393.64	0.0
25915.000	914.00	0.0	0.0	1850.00	710.80	717.48	0.0	5.28	1203.01	1566.68	732.33	1.03
25915.000	914.00	0.0	0.0	2290.00	710.80	718.67	0.0	3.95	1178.17	1579.73	1189.89	1.19
25915.000	914.00	0.0	0.0	3400.00	710.80	721.43	0.0	2.74	1121.81	1596.05	2399.21	2.76
27027												
27027.000	1112.00	0.0	0.0	1000.00	718.90	722.66	722.66	10.07	1301.65	1333.49	99.26	0.0
27027.000	1112.00	0.0	0.0	1760.00	718.90	724.26	724.26	11.53	1288.08	1341.51	156.49	1.60
27027.000	1112.00	0.0	0.0	2200.00	718.90	725.52	725.52	10.47	1223.86	1358.58	269.76	1.27
27027.000	1112.00	0.0	0.0	3300.00	718.90	726.86	726.86	10.62	1174.80	1376.53	500.62	1.33
27077												
27077.000	50.00	0.0	0.0	1000.00	719.30	724.30	724.30	11.07	1392.00	1416.00	90.35	0.0
27077.000	50.00	0.0	0.0	1760.00	719.30	726.01	726.01	13.39	1392.00	1416.00	131.47	1.71
27077.000	50.00	0.0	0.0	2200.00	719.30	726.92	726.92	14.36	1392.00	1416.00	153.23	0.91
27077.000	50.00	0.0	0.0	3300.00	719.30	730.97	730.97	10.64	1274.41	1502.01	506.36	4.05
27103												
27103.000	26.00	728.80	726.70	1000.00	719.30	724.30	0.0	11.05	1392.00	1416.00	90.48	0.0
27103.000	26.00	728.80	726.70	1760.00	719.30	727.39	0.0	10.70	1392.00	1416.00	164.48	3.08
27103.000	26.00	728.80	726.70	2200.00	719.30	727.91	0.0	12.45	1392.00	1416.00	176.74	0.52
27103.000	26.00	728.80	726.70	3300.00	719.30	731.33	0.0	9.53	1264.75	1506.27	592.40	3.43
27153												
27153.000	50.00	0.0	0.0	1000.00	719.50	726.22	0.0	4.63	1217.41	1359.95	283.81	0.0
27153.000	50.00	0.0	0.0	1760.00	719.50	729.27	0.0	3.46	1127.11	1400.41	931.53	3.05
27153.000	50.00	0.0	0.0	2200.00	719.50	730.50	0.0	3.20	1097.59	1407.58	1291.79	1.23
27153.000	50.00	0.0	0.0	3300.00	719.50	732.47	0.0	3.19	1073.86	1419.07	1936.99	1.97
29340												
29340.000	2187.00	0.0	0.0	970.00	729.40	733.71	733.71	7.57	1199.76	1506.41	289.49	0.0
29340.000	2187.00	0.0	0.0	1720.00	729.40	734.22	734.22	8.70	1191.04	1508.55	447.29	0.51
29340.000	2187.00	0.0	0.0	2150.00	729.40	734.36	734.36	9.83	1188.69	1509.13	490.82	0.14
29340.000	2187.00	0.0	0.0	3200.00	729.40	734.83	734.83	10.82	1180.59	1511.12	643.71	0.47
30790												
30790.000	1450.00	0.0	0.0	970.00	733.10	738.18	0.0	4.07	1186.55	1509.65	530.62	0.0
30790.000	1450.00	0.0	0.0	1720.00	733.10	738.95	0.0	4.64	1173.30	1512.91	785.37	0.77
30790.000	1450.00	0.0	0.0	2150.00	733.10	739.36	0.0	4.79	1166.19	1514.65	927.18	0.42
30790.000	1450.00	0.0	0.0	3200.00	733.10	740.11	0.0	5.36	1153.34	1517.81	1192.86	0.74
32140												
32140.000	1350.00	0.0	0.0	950.00	736.70	741.58	0.0	9.24	1231.07	1261.52	102.82	0.0
32140.000	1350.00	0.0	0.0	1680.00	736.70	743.50	743.50	8.06	1152.58	1421.36	354.08	1.92
32140.000	1350.00	0.0	0.0	2100.00	736.70	743.66	743.66	8.38	1143.41	1422.39	454.51	0.37
32140.000	1350.00	0.0	0.0	3075.00	736.70	744.35	744.35	9.81	1131.36	1423.74	592.26	0.48
33740												
33740.000	1600.00	0.0	0.0	950.00	741.55	748.33	0.0	4.58	1152.89	1421.32	350.80	0.0
33740.000	1600.00	0.0	0.0	1680.00	741.55	749.09	0.0	5.60	1133.86	1423.46	563.20	0.76
33740.000	1600.00	0.0	0.0	2100.00	741.55	749.48	0.0	5.94	1124.39	1424.52	674.80	0.39
33740.000	1600.00	0.0	0.0	3075.00	741.55	750.33	0.0	6.29	1102.92	1426.93	942.84	0.85

	SEC ID	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRWS	VCH	SSTA	ENDST	AREA	DIFWSP
WJ	35600												
	35040.000	1300.00	0.0	0.0	880.00	746.40	751.58	0.0	7.36	1251.81	1262.84	119.50	0.0
	35040.000	1300.00	0.0	0.0	1580.00	746.40	752.86	752.29	9.53	1245.81	1322.57	185.84	1.28
	35040.000	1300.00	0.0	0.0	1940.00	746.40	753.28	753.21	10.51	1235.55	1334.65	221.94	0.42
*	35040.000	2300.00	0.0	0.0	2840.00	746.40	754.62	754.62	10.68	1201.99	1374.12	403.99	1.34
	35190												
	37630.000	2590.00	0.0	0.0	850.00	754.30	760.97	0.0	5.70	1295.90	1474.65	238.67	0.0
X	37630.000	2590.00	0.0	0.0	1500.00	754.30	762.26	0.0	5.77	1219.93	1501.17	535.76	1.29
	37630.000	2590.00	0.0	0.0	1850.00	754.30	762.74	0.0	5.78	1190.97	1510.47	680.85	0.48
	37630.000	2590.00	0.0	0.0	2800.00	754.30	763.51	0.0	6.42	1143.29	1525.14	948.39	0.77
	38240												
	37630.000	50.00	0.0	0.0	850.00	754.40	761.01	0.0	6.15	1404.00	1434.00	138.25	0.0
	37630.000	50.00	0.0	0.0	1500.00	754.40	761.68	0.0	9.47	1404.00	1434.00	158.43	0.67
	37630.000	50.00	0.0	0.0	1850.00	754.40	761.58	0.0	11.90	1404.00	1434.00	155.40	-0.10
*	37630.000	50.00	0.0	0.0	2800.00	754.40	762.87	762.87	14.43	1404.00	1434.00	194.04	1.29
	38260												
	37700.000	20.00	764.10	762.50	850.00	754.40	761.06	0.0	6.09	1404.00	1434.00	139.61	0.0
	37700.000	20.00	764.10	762.50	1500.00	754.40	762.27	0.0	8.52	1404.00	1434.00	175.99	1.21
	37700.000	20.00	764.10	762.50	1850.00	754.40	762.61	0.0	9.94	1404.00	1434.00	186.14	0.34
	37700.000	20.00	764.10	762.50	2800.00	754.40	762.97	0.0	14.20	1404.00	1434.00	197.13	0.36
	38310												
	37750.000	50.00	0.0	0.0	850.00	754.50	761.50	0.0	4.96	1276.45	1481.46	302.12	0.0
	37750.000	50.00	0.0	0.0	1500.00	754.50	763.46	0.0	3.78	1150.66	1520.41	856.96	1.97
	37750.000	50.00	0.0	0.0	1850.00	754.50	764.27	0.0	3.46	1108.17	1535.95	1175.86	0.81
	37750.000	50.00	0.0	0.0	2800.00	754.50	766.41	0.0	2.76	1079.30	1577.07	2172.37	2.14
	37810												
	39250.000	1500.00	0.0	0.0	620.00	760.00	765.20	0.0	6.05	1272.55	1538.64	231.16	0.0
Y	39250.000	1500.00	0.0	0.0	1125.00	760.00	765.48	765.48	8.29	1264.35	1541.16	303.68	0.27
*	39250.000	1500.00	0.0	0.0	1450.00	760.00	765.67	765.67	8.94	1250.43	1542.97	358.50	0.20
	39250.000	1500.00	0.0	0.0	2150.00	760.00	767.01	0.0	5.57	1217.85	1555.43	775.02	1.34
	40738												
	40178.000	928.00	0.0	0.0	590.00	762.80	768.41	0.0	4.63	1286.87	1323.36	127.54	0.0
Z	40178.000	928.00	0.0	0.0	1100.00	762.80	769.81	0.0	5.92	1189.43	1423.97	235.78	1.39
	40178.000	928.00	0.0	0.0	1350.00	762.80	770.23	0.0	6.22	1183.14	1456.74	321.10	0.42
*	40178.000	928.00	0.0	0.0	2025.00	762.80	770.43	770.43	8.62	1180.16	1470.98	370.32	0.20
	40743												
*	40228.000	50.00	0.0	0.0	590.00	765.50	769.81	769.81	10.25	1468.00	1486.00	57.59	0.0
*	40228.000	50.00	0.0	0.0	1100.00	765.50	771.46	771.46	12.60	1468.00	1486.00	87.27	1.65
*	40228.000	50.00	0.0	0.0	1350.00	765.50	772.17	772.17	13.49	1468.00	1486.00	100.09	0.71
	40228.000	50.00	0.0	0.0	2025.00	765.50	773.79	773.79	15.68	1468.00	1486.00	129.16	1.61
	40812												
	40252.000	24.00	774.30	773.10	590.00	765.50	769.82	0.0	10.22	1468.00	1486.00	57.71	0.0
	40252.000	24.00	774.30	773.10	1100.00	765.50	771.47	0.0	12.58	1468.00	1486.00	87.46	1.65
	40252.000	24.00	774.30	773.10	1350.00	765.50	772.33	0.0	13.11	1468.00	1486.00	102.98	0.86
	40252.000	24.00	774.30	773.10	2025.00	765.50	777.47	0.0	4.20	1279.09	1662.76	985.98	5.14
	40862												
	40302.000	50.00	0.0	0.0	590.00	768.20	772.06	772.06	8.51	1290.42	1322.28	69.35	0.0
	40302.000	50.00	0.0	0.0	1100.00	768.20	773.31	773.21	9.97	1289.11	1323.05	110.33	1.25
	40302.000	50.00	0.0	0.0	1350.00	768.20	774.50	0.0	8.92	1288.27	1323.77	151.43	1.19
	40302.000	50.00	0.0	0.0	2025.00	768.20	777.49	0.0	4.36	1155.38	1507.31	901.40	3.00
	41825												
	41265.000	963.00	0.0	0.0	590.00	772.60	778.04	0.0	4.86	1289.03	1323.25	121.34	0.0
AA	41265.000	963.00	0.0	0.0	1100.00	772.60	779.53	0.0	6.08	1190.59	1417.89	222.66	1.49
	41265.000	963.00	0.0	0.0	1350.00	772.60	779.79	778.11	6.81	1186.68	1438.28	270.01	0.26
	41265.000	963.00	0.0	0.0	2025.00	772.60	780.25	780.25	8.56	1179.90	1471.55	374.76	0.45

SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRWS	VCH	SSTA	ENDST	AREA	DIFWSP
42115												
42215.000	950.00	0.0	0.0	580.00	777.40	780.07	0.0	2.43	1178.14	1409.21	403.24	0.0
42215.000	950.00	0.0	0.0	1080.00	777.40	781.33	0.0	2.54	1166.76	1414.80	704.20	1.26
42215.000	950.00	0.0	0.0	1325.00	777.40	781.75	0.0	2.69	1162.88	1416.71	811.77	0.42
42215.000	950.00	0.0	0.0	2000.00	777.40	782.67	0.0	3.14	1154.54	1420.81	1051.43	0.93
43310												
43250.000	1035.00	0.0	0.0	580.00	780.30	782.32	0.0	3.96	1183.98	1406.33	256.93	0.0
43250.000	1035.00	0.0	0.0	1080.00	780.30	782.85	0.0	4.88	1179.20	1408.58	376.17	0.53
43250.000	1035.00	0.0	0.0	1325.00	780.30	783.17	0.0	4.99	1176.43	1410.05	447.14	0.31
43250.000	1035.00	0.0	0.0	2000.00	780.30	783.97	0.0	5.16	1169.03	1413.69	642.57	0.81
44810												
44250.000	1000.00	0.0	0.0	520.00	783.20	787.38	787.19	6.05	1147.14	1295.92	173.37	0.0
44250.000	1000.00	0.0	0.0	960.00	783.20	788.03	787.65	6.90	1139.10	1299.17	273.97	0.65
44250.000	1000.00	0.0	0.0	1210.00	783.20	788.24	787.90	7.68	1136.55	1310.23	307.52	0.21
44250.000	1000.00	0.0	0.0	1820.00	783.20	788.58	788.40	9.54	1132.39	1351.29	377.17	0.34
45840												
45840.000	1590.00	0.0	0.0	520.00	789.90	794.28	0.0	5.14	1144.68	1296.91	203.39	0.0
45840.000	1590.00	0.0	0.0	960.00	789.90	795.01	0.0	5.86	1135.70	1327.57	320.19	0.73
45840.000	1590.00	0.0	0.0	1210.00	789.90	795.39	0.0	5.95	1130.92	1352.15	403.24	0.38
45840.000	1590.00	0.0	0.0	1820.00	789.90	796.18	0.0	6.13	1121.21	1357.85	583.28	0.79
47700												
47240.000	1400.00	0.0	0.0	409.00	796.30	799.49	0.0	4.22	1145.74	1378.71	206.21	0.0
47240.000	1400.00	0.0	0.0	735.00	796.30	800.07	0.0	4.67	1139.54	1381.28	341.50	0.57
47240.000	1400.00	0.0	0.0	979.00	796.30	800.27	0.0	4.98	1138.03	1382.20	390.75	0.20
47240.000	1400.00	0.0	0.0	1459.00	796.30	800.71	0.0	5.58	1134.76	1384.20	499.85	0.44

SUMMARY OF ERRORS

CAUTION	SECNO=	110.000	PROFILE= 1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	110.000	PROFILE= 2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	110.000	PROFILE= 3	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	110.000	PROFILE= 4	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	135.000	PROFILE= 1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	135.000	PROFILE= 1	MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	135.000	PROFILE= 2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	135.000	PROFILE= 2	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	135.000	PROFILE= 2	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=	135.000	PROFILE= 3	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	135.000	PROFILE= 3	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	135.000	PROFILE= 3	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=	135.000	PROFILE= 4	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	135.000	PROFILE= 4	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	135.000	PROFILE= 4	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=	165.000	PROFILE= 1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	165.000	PROFILE= 1	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	165.000	PROFILE= 1	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=	225.000	PROFILE= 1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	225.000	PROFILE= 1	MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	225.000	PROFILE= 4	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	225.000	PROFILE= 4	MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	355.000	PROFILE= 1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	355.000	PROFILE= 1	PROBABLE MINIMUM SPECIFIC ENERGY

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		
		10F	2C	0.2C
110.000	0.	-3.4	-1.0	1.6
135.000	25.	-5.9	-3.7	1.0
148.000	38.	-6.0	-3.6	1.3
165.000	55.	-5.6	-1.0	0.4
225.000	115.	-4.6	-1.0	0.4
275.000	165.	-3.5	-1.2	1.8
305.000	195.	-3.5	-1.2	1.8
355.000	245.	-3.4	-1.0	1.6
2300.000	2190.	-2.7	-1.0	1.8
3983.000	3873.	-1.4	-0.5	0.8
4083.000	3973.	-0.7	-0.2	-0.1
4117.000	4007.	-1.0	-0.4	1.0
4132.000	4022.	-1.0	-0.4	1.0
4147.000	4037.	-1.1	-0.5	1.1
4181.000	4071.	-1.3	-0.6	1.4
4281.000	4171.	-2.8	-1.3	2.1
4739.000	4629.	-0.7	-0.1	1.6
4839.000	4729.	-1.0	-0.4	0.7
4861.000	4751.	-1.1	-0.4	0.8
4961.000	4851.	-1.0	-0.4	1.3
6600.000	6490.	-1.9	-0.7	1.1
8950.000	8840.	-1.8	-0.6	1.3
10587.000	10477.	-1.5	-0.5	1.2
10687.000	10577.	-3.1	-1.1	4.4
10713.000	10603.	-7.9	-0.7	0.2
10813.000	10703.	-3.3	-0.4	0.6
12140.000	12030.	-3.3	-0.4	0.6
12240.000	12130.	-3.4	-0.5	0.6
12261.000	12151.	-3.1	-0.5	0.6
12361.000	12251.	-2.8	-0.4	0.6
12725.000	12615.	-2.8	-0.5	0.7
13090.000	12980.	-2.6	-0.5	0.7
13290.000	13180.	-2.6	-0.5	0.7
13340.000	13230.	-2.6	-0.5	0.7
13440.000	13330.	-1.5	-0.2	0.4
13490.000	13380.	-1.5	-0.2	0.4
18440.000	18330.	-1.5	-0.2	0.4
20720.000	20680.	-0.7	-0.2	0.5
23460.000	23350.	-1.6	-0.5	1.0
24879.000	24769.	-1.1	-0.3	0.8
24929.000	24819.	-1.3	-0.9	2.2
24951.000	24841.	-2.3	-1.9	5.2
25001.000	24891.	-4.0	-1.5	2.9
25915.000	25805.	-2.0	-1.2	2.8
27027.000	26917.	-2.4	-1.3	1.3
27077.000	26967.	-2.6	-0.9	4.1
27103.000	26993.	-3.6	-0.5	3.4
27153.000	27043.	-4.3	-1.2	2.0
29340.000	29230.	-0.6	-0.1	0.5
30798.000	30680.	-1.2	-0.4	0.7

32140.000	32030.	-2.3	-0.4	0.5
33740.000	33630.	-1.2	-0.4	0.8
35040.000	34930.	-1.7	-0.4	1.3
37630.000	37520.	-1.8	-0.5	0.8
37680.000	37570.	-0.6	0.1	1.3
37700.000	37590.	-1.6	-0.3	0.4
37750.000	37640.	-2.8	-0.0	2.1
39250.000	39140.	-0.5	-0.2	1.3
40178.000	40068.	-1.2	-0.4	0.2
40228.000	40118.	-2.4	-0.7	1.6
40252.000	40142.	-2.5	-0.9	5.1
40302.000	40192.	-2.4	-1.2	3.0
41265.000	41155.	-1.2	-0.3	0.5
42215.000	42105.	-1.7	-0.4	0.9
43250.000	43140.	-0.8	-0.3	0.8
44250.000	44140.	-0.9	-0.2	0.3
45840.000	45730.	-1.1	-0.4	0.8
47240.000	47130.	-0.8	-0.2	0.4

WEIGHTED AVG FOR REACH -1.7 -0.5 1.0

FHF FOR THE REACH = 015 WITH 54.7% OF THE REACH WITHIN 0.5 FEET
ZONE FOR THE REACH = A 3

CONTINUOUS FLOOD HAZARD FACTORS BY EVEN INCREMENTS

INC NO.	TOTAL LENGTH	AVG ELEVATION DATA	WTD. AVG.	FHF	PERCENT WITHIN
		100 10 DIFF.			
	0.			SEC.	110.000
1	138.	635.3 645.5 -10.2	-10.2	100	100.
	25.			SEC.	135.000
	38.			SEC.	148.000
	55.			SEC.	163.000
	115.			SEC.	225.000
	165.			SEC.	275.000
	195.			SEC.	305.000
	245.			SEC.	355.000
2	276.	638.2 641.6 -3.4	-6.8	070	0.
3	414.	638.5 641.8 -3.4	-5.7	055	0.
4	552.	638.8 642.1 -3.3	-5.1	050	0.
5	690.	639.2 642.4 -3.3	-4.7	045	0.
6	828.	639.5 642.7 -3.2	-4.5	045	0.
7	966.	639.9 643.0 -3.2	-4.3	045	43.
8	1104.	640.2 643.3 -3.1	-4.1	040	75.
9	1242.	640.6 643.6 -3.0	-4.0	040	89.
10	1380.	641.0 643.9 -3.0	-3.9	040	90.
11	1518.	641.3 644.2 -2.9	-3.8	040	91.
12	1656.	641.7 644.5 -2.9	-3.7	035	92.
13	1794.	642.0 644.9 -2.8	-3.7	035	92.
14	1932.	642.4 645.2 -2.8	-3.6	035	93.
15	2070.	642.7 645.5 -2.7	-3.5	035	93.
	2190.			SEC.	2300.000
16	2208.	643.1 645.8 -2.7	-3.5	035	94.
17	2346.	643.4 646.0 -2.6	-3.4	035	94.
18	2484.	643.6 646.1 -2.5	-3.4	035	94.
19	2622.	643.9 646.2 -2.4	-3.3	035	95.
20	2760.	644.1 646.4 -2.3	-3.3	035	95.
21	2898.	644.4 646.5 -2.2	-3.2	030	90.
22	3036.	644.6 646.7 -2.1	-3.2	030	91.

23	3174.	644.8	646.8	-2.0	-1.1	030	87.
24	3312.	645.1	647.0	-1.9	-3.1	030	88.
25	3450.	645.3	647.1	-1.8	-3.0	030	84.
26	3588.	645.6	647.2	-1.7	-3.7	030	85.
27	3726.	645.8	647.4	-1.6	-2.9	030	81.
28	3864.	646.1	647.5	-1.5	-2.9	030	82.
	3873.					SEC. 3983.000	
	3973.					SEC. 4083.000	
29	4002.	647.1	647.9	-0.8	-2.8	030	79.
	4007.					SEC. 4117.000	
	4022.					SEC. 4132.000	
	4037.					SEC. 4147.000	
	4071.					SEC. 4181.000	
30	4140.	647.2	649.0	-1.8	-2.8	030	83.
	4171.					SEC. 4281.000	
31	4278.	647.5	649.8	-2.3	-2.7	025	84.
32	4416.	648.2	650.1	-2.0	-2.7	025	84.
33	4554.	648.9	650.3	-1.4	-2.7	025	82.
	4629.					SEC. 4739.000	
34	4692.	649.7	650.6	-1.0	-2.6	025	82.
	4729.					SEC. 4839.000	
	4751.					SEC. 4861.000	
35	4830.	650.5	651.6	-1.1	-2.6	025	80.
	4851.					SEC. 4961.000	
36	4968.	651.0	652.1	-1.1	-2.5	025	81.
37	5106.	651.3	652.5	-1.1	-2.5	025	78.
38	5244.	651.6	652.8	-1.2	-2.5	025	76.
39	5382.	651.8	653.1	-1.3	-2.4	025	77.
40	5520.	652.0	653.4	-1.4	-2.4	025	75.
41	5658.	652.3	653.7	-1.4	-2.4	025	73.
42	5796.	652.5	654.0	-1.5	-2.4	025	74.
43	5934.	652.7	654.3	-1.6	-2.4	025	77.
44	6072.	653.0	654.6	-1.6	-2.3	025	77.
45	6210.	653.2	654.9	-1.7	-2.3	025	76.
46	6348.	653.4	655.2	-1.8	-2.3	025	76.
47	6486.	653.7	655.5	-1.8	-2.3	025	77.
	6490.					SEC. 6600.000	
48	6524.	653.8	655.7	-1.9	-2.3	025	77.
49	6762.	654.0	655.8	-1.9	-2.3	025	80.
50	6900.	654.1	655.9	-1.9	-2.3	025	80.
51	7038.	654.2	656.0	-1.9	-2.3	025	80.
52	7176.	654.3	656.1	-1.9	-2.3	025	81.
53	7314.	654.4	656.2	-1.9	-2.3	025	79.
54	7452.	654.5	656.3	-1.8	-2.2	020	80.
55	7590.	654.6	656.4	-1.8	-2.2	020	80.
56	7728.	654.7	656.5	-1.8	-2.2	020	80.
57	7866.	654.8	656.6	-1.8	-2.2	020	81.
58	8004.	654.9	656.7	-1.8	-2.2	020	81.
59	8142.	655.0	656.8	-1.8	-2.2	020	83.
60	8280.	655.1	656.9	-1.8	-2.2	020	82.
61	8418.	655.2	657.1	-1.8	-2.2	020	82.
62	8556.	655.4	657.2	-1.8	-2.2	020	82.
63	8694.	655.5	657.3	-1.8	-2.2	020	83.
64	8832.	655.6	657.4	-1.8	-2.2	020	83.
	8840.					SEC. 8950.000	
65	8970.	655.7	657.4	-1.8	-2.2	020	83.
66	9108.	655.8	657.5	-1.8	-2.2	020	83.
67	9246.	655.9	657.6	-1.7	-2.2	020	84.
68	9384.	656.0	657.7	-1.7	-2.2	020	84.
69	9522.	656.1	657.8	-1.7	-2.1	020	83.
70	9660.	656.2	657.8	-1.7	-2.1	020	84.
71	9798.	656.3	657.9	-1.7	-2.1	020	85.
72	9936.	656.4	658.0	-1.6	-2.1	020	85.
73	10074.	656.5	658.1	-1.6	-2.1	020	85.
74	10212.	656.6	658.2	-1.6	-2.1	020	85.
75	10350.	656.7	658.2	-1.6	-2.1	020	85.

	10477.				SEC. 10587.000	
76	10488.	656.9	658.5	-1.6	-2.1	020 84.
	10577.				SEC. 10687.000	
	10603.				SEC. 10713.000	
77	10626.	659.6	667.0	-7.4	-2.2	020 84.
	10703.				SEC. 10813.000	
78	10764.	662.2	667.2	-5.1	-2.2	020 83.
79	10902.	664.2	667.4	-3.3	-2.2	020 82.
80	11040.	664.2	667.4	-3.3	-2.2	020 81.
81	11178.	664.2	667.4	-3.3	-2.2	020 80.
82	11316.	664.2	667.4	-3.3	-2.3	025 79.
83	11454.	664.2	667.4	-3.3	-2.3	025 80.
84	11592.	664.2	667.4	-3.3	-2.3	025 86.
85	11730.	664.2	667.4	-3.3	-2.3	025 85.
86	11868.	664.2	667.4	-3.3	-2.3	025 85.
87	12006.	664.2	667.4	-3.3	-2.3	025 86.
	12030.				SEC. 12140.000	
	12130.				SEC. 12240.000	
88	12144.	664.1	667.4	-3.3	-2.3	025 86.
	12151.				SEC. 12261.000	
	12251.				SEC. 12361.000	
89	12282.	664.7	667.6	-2.8	-2.3	025 87.
90	12420.	664.7	667.6	-2.8	-2.3	025 87.
91	12558.	664.8	667.6	-2.8	-2.3	025 87.
	12615.				SEC. 12725.000	
92	12696.	664.8	667.6	-2.8	-2.3	025 87.
93	12834.	664.9	667.7	-2.8	-2.4	025 87.
94	12972.	665.0	667.7	-2.7	-2.4	025 87.
	12980.				SEC. 13090.000	
95	13110.	665.1	667.8	-2.6	-2.4	025 86.
	13180.				SEC. 13290.000	
	13230.				SEC. 13340.000	
96	13248.	667.2	669.8	-2.5	-2.4	025 86.
	13330.				SEC. 13440.000	
	13380.				SEC. 13490.000	
97	13386.	687.9	689.4	-1.5	-2.4	025 88.
98	13524.	687.9	689.4	-1.5	-2.3	025 88.
99	13662.	687.9	689.4	-1.5	-2.3	025 88.
100	13800.	687.9	689.4	-1.5	-2.3	025 88.
101	13938.	687.9	689.4	-1.5	-2.3	025 88.
102	14076.	687.9	689.4	-1.5	-2.3	025 87.
103	14214.	687.9	689.4	-1.5	-2.3	025 87.
104	14352.	687.9	689.4	-1.5	-2.3	025 87.
105	14490.	687.9	689.4	-1.5	-2.3	025 87.
106	14628.	687.9	689.4	-1.5	-2.3	025 88.
107	14766.	687.9	689.4	-1.5	-2.3	025 82.
108	14904.	687.9	689.4	-1.5	-2.3	025 80.
109	15042.	687.9	689.4	-1.5	-2.3	025 80.
110	15180.	687.9	689.4	-1.5	-2.3	025 79.
111	15318.	687.9	689.4	-1.5	-2.2	020 79.
112	15456.	687.9	689.4	-1.5	-2.2	020 79.
113	15594.	687.9	689.4	-1.5	-2.2	020 80.
114	15732.	687.9	689.4	-1.5	-2.2	020 80.
115	15870.	687.9	689.4	-1.5	-2.2	020 80.
116	16008.	687.9	689.4	-1.5	-2.2	020 80.
117	16146.	687.9	689.4	-1.5	-2.2	020 81.
118	16284.	687.9	689.4	-1.5	-2.2	020 81.
119	16422.	687.9	689.4	-1.5	-2.2	020 81.
120	16560.	687.9	689.4	-1.5	-2.2	020 81.
121	16698.	687.9	689.4	-1.5	-2.2	020 81.
122	16836.	687.9	689.4	-1.5	-2.2	020 81.
123	16974.	687.9	689.4	-1.5	-2.2	020 81.
124	17112.	687.9	689.4	-1.5	-2.2	020 81.
125	17250.	687.9	689.4	-1.5	-2.2	020 82.
126	17388.	687.9	689.4	-1.5	-2.2	020 82.
127	17526.	687.9	689.4	-1.5	-2.2	020 82.

128	17664.	687.9	689.4	-1.5	-2.1	020	81.
129	17802.	687.9	689.4	-1.5	-2.1	020	81.
130	17940.	687.9	689.4	-1.5	-2.1	020	82.
131	18078.	687.9	689.4	-1.5	-2.1	020	82.
132	18216.	687.9	689.4	-1.5	-2.1	020	83.
	18330.					SEC. 18440.000	
133	18354.	687.9	689.5	-1.5	-2.1	020	83.
134	18492.	688.1	689.6	-1.5	-2.1	020	83.
135	18630.	688.5	689.9	-1.4	-2.1	020	83.
136	18768.	688.8	690.2	-1.4	-2.1	020	83.
137	18906.	689.1	690.5	-1.3	-2.1	020	83.
138	19044.	689.4	690.7	-1.3	-2.1	020	83.
139	19182.	689.8	691.0	-1.2	-2.1	020	83.
140	19320.	690.1	691.3	-1.2	-2.1	020	83.
141	19458.	690.4	691.6	-1.2	-2.1	020	84.
142	19596.	690.7	691.8	-1.1	-2.1	020	84.
143	19734.	691.1	692.1	-1.1	-2.1	020	84.
144	19872.	691.4	692.4	-1.0	-2.1	020	83.
145	20010.	691.7	692.7	-1.0	-2.1	020	83.
146	20148.	692.1	693.0	-0.9	-2.0	020	82.
147	20286.	692.4	693.2	-0.9	-2.0	020	82.
148	20424.	692.7	693.5	-0.8	-2.0	020	81.
149	20562.	693.0	693.8	-0.8	-2.0	020	81.
	20680.					SEC. 20790.000	
150	20700.	693.4	694.1	-0.7	-2.0	020	80.
151	20838.	693.9	694.7	-0.7	-2.0	020	80.
152	20976.	694.7	695.4	-0.8	-2.0	020	56.
153	21114.	695.4	696.2	-0.8	-2.0	020	56.
154	21252.	696.1	696.9	-0.9	-2.0	020	55.
155	21390.	696.8	697.7	-0.9	-2.0	020	55.
156	21528.	697.5	698.5	-1.0	-2.0	020	55.
157	21666.	698.2	699.2	-1.0	-2.0	020	55.
158	21804.	698.9	700.0	-1.0	-2.0	020	54.
159	21942.	699.7	700.8	-1.1	-1.9	020	54.
160	22080.	700.4	701.5	-1.1	-1.9	020	54.
161	22218.	701.1	702.3	-1.2	-1.9	020	54.
162	22356.	701.8	703.0	-1.2	-1.9	020	54.
163	22494.	702.5	703.8	-1.3	-1.9	020	53.
164	22632.	703.2	704.6	-1.3	-1.9	020	53.
165	22770.	704.0	705.3	-1.4	-1.9	020	53.
166	22908.	704.7	706.1	-1.4	-1.9	020	53.
167	23046.	705.4	706.8	-1.5	-1.9	020	53.
168	23184.	706.1	707.6	-1.5	-1.9	020	54.
169	23322.	706.8	708.4	-1.5	-1.9	020	54.
	23350.					SEC. 23460.000	
170	23460.	707.5	709.0	-1.6	-1.9	020	55.
171	23598.	708.1	709.6	-1.5	-1.9	020	55.
172	23736.	708.7	710.1	-1.5	-1.9	020	55.
173	23874.	709.3	710.7	-1.4	-1.9	020	55.
174	24012.	709.8	711.2	-1.4	-1.9	020	55.
175	24150.	710.4	711.8	-1.3	-1.9	020	55.
176	24288.	711.0	712.3	-1.3	-1.9	020	55.
177	24426.	711.6	712.9	-1.3	-1.9	020	55.
178	24564.	712.2	713.4	-1.2	-1.9	020	55.
179	24702.	712.8	713.9	-1.2	-1.9	020	54.
	24769.					SEC. 24879.000	
	24819.					SEC. 24929.000	
180	24840.	713.2	715.0	-1.8	-1.9	020	54.
	24841.					SEC. 24951.000	
	24891.					SEC. 25001.000	
181	24978.	714.5	718.4	-3.9	-1.9	020	54.
182	25116.	714.8	718.4	-3.7	-1.9	020	53.
183	25254.	715.1	718.5	-3.4	-1.9	020	53.
184	25392.	715.4	718.5	-3.1	-1.9	020	52.
185	25530.	715.7	718.6	-2.9	-1.9	020	52.
186	25668.	716.0	718.6	-2.6	-1.9	020	52.

	25805.				SEC. 25915.000	
187	25806.	716.3	718.7	-2.3	-1.9	020 51.
188	25944.	716.8	719.1	-2.3	-1.9	020 52.
189	26082.	717.6	720.0	-2.3	-1.9	020 52.
190	26220.	718.4	720.8	-2.4	-1.9	020 52.
191	26356.	719.2	721.7	-2.5	-1.9	020 51.
192	26496.	719.9	722.5	-2.6	-1.9	020 51.
193	26634.	720.7	723.4	-2.7	-1.9	020 50.
194	26772.	721.5	724.2	-2.7	-1.9	020 50.
195	26910.	722.2	725.1	-2.8	-2.0	020 50.
	26917.				SEC. 27027.000	
	26967.				SEC. 27077.000	
	26993.				SEC. 27103.000	
	27043.				SEC. 27153.000	
196	27048.	726.2	730.5	-4.3	-2.0	020 49.
197	27186.	726.5	730.6	-4.2	-2.0	020 48.
198	27324.	726.9	730.9	-3.9	-2.0	020 47.
199	27462.	727.4	731.1	-3.7	-2.0	020 47.
200	27600.	727.9	731.4	-3.5	-2.0	020 78.
201	27738.	728.4	731.6	-3.2	-2.0	020 77.
202	27876.	728.8	731.8	-3.0	-2.0	020 77.
203	28014.	729.3	732.1	-2.8	-2.0	020 77.
204	28152.	729.8	732.3	-2.6	-2.0	020 77.
205	28290.	730.3	732.6	-2.3	-2.0	020 77.
206	28428.	730.7	732.8	-2.1	-2.0	020 77.
207	28566.	731.2	733.1	-1.9	-2.0	020 77.
208	28704.	731.7	733.3	-1.6	-2.0	020 77.
209	28842.	732.1	733.6	-1.4	-2.0	020 78.
210	28980.	732.6	733.8	-1.2	-2.0	020 78.
211	29118.	733.1	734.0	-0.9	-2.0	020 77.
	29230.				SEC. 29340.000	
212	29256.	733.6	734.3	-0.7	-2.0	020 77.
213	29394.	734.0	734.7	-0.7	-2.0	020 46.
214	29532.	734.4	735.2	-0.7	-2.0	020 46.
215	29670.	734.9	735.6	-0.8	-2.0	020 46.
216	29808.	735.3	736.1	-0.8	-2.0	020 46.
217	29946.	735.7	736.6	-0.9	-2.0	020 46.
218	30084.	736.1	737.1	-0.9	-2.0	020 45.
219	30222.	736.6	737.5	-1.0	-2.0	020 46.
220	30360.	737.0	738.0	-1.0	-2.0	020 45.
221	30498.	737.4	738.5	-1.1	-2.0	020 46.
222	30636.	737.8	739.0	-1.1	-2.0	020 45.
	30680.				SEC. 30790.000	
223	30774.	738.2	739.4	-1.2	-1.9	020 45.
224	30912.	738.6	739.9	-1.3	-1.9	020 45.
225	31050.	738.9	740.4	-1.4	-1.9	020 45.
226	31188.	739.3	740.8	-1.5	-1.9	020 46.
227	31326.	739.6	741.3	-1.7	-1.9	020 46.
228	31464.	740.0	741.7	-1.8	-1.9	020 46.
229	31602.	740.3	742.2	-1.9	-1.9	020 46.
230	31740.	740.7	742.7	-2.0	-1.9	020 47.
231	31878.	741.0	743.1	-2.1	-1.9	020 47.
232	32016.	741.4	743.6	-2.2	-1.9	020 47.
	32030.				SEC. 32140.000	
233	32154.	741.8	744.1	-2.2	-1.9	020 47.
234	32292.	742.4	744.5	-2.1	-1.9	020 47.
235	32430.	743.0	745.0	-2.0	-1.9	020 47.
236	32568.	743.6	745.5	-2.0	-1.9	020 47.
237	32706.	744.1	746.0	-1.9	-1.9	020 48.
238	32844.	744.7	746.5	-1.8	-1.9	020 48.
239	32982.	745.3	747.0	-1.7	-1.9	020 49.
240	33120.	745.9	747.4	-1.6	-1.9	020 49.
241	33258.	746.5	747.9	-1.5	-1.9	020 49.
242	33396.	747.1	748.4	-1.4	-1.9	020 49.
243	33534.	747.6	748.9	-1.3	-1.9	020 49.
	33630.				SEC. 33740.000	

244	33672.	748.2	749.4	-1.2	-1.9	020	49.
245	33810.	748.6	749.8	-1.2	-1.9	020	49.
246	33948.	749.0	750.2	-1.3	-1.9	020	49.
247	34086.	749.3	750.6	-1.3	-1.9	020	49.
248	34224.	749.6	751.0	-1.4	-1.9	020	49.
249	34362.	750.0	751.4	-1.4	-1.9	020	49.
250	34500.	750.3	751.8	-1.5	-1.9	020	49.
251	34638.	750.7	752.2	-1.5	-1.9	020	49.
252	34776.	751.0	752.6	-1.6	-1.9	020	49.
253	34914.	751.4	753.0	-1.7	-1.9	020	49.
	34930.					SEC. 35040.000	
254	35052.	751.8	753.5	-1.7	-1.9	020	50.
255	35190.	752.3	754.0	-1.7	-1.9	020	50.
256	35328.	752.8	754.5	-1.7	-1.9	020	50.
257	35466.	753.3	755.0	-1.7	-1.9	020	51.
258	35604.	753.8	755.5	-1.7	-1.9	020	51.
259	35742.	754.3	756.0	-1.7	-1.9	020	51.
260	35880.	754.8	756.5	-1.7	-1.9	020	51.
261	36018.	755.3	757.0	-1.7	-1.9	020	51.
262	36156.	755.8	757.5	-1.7	-1.9	020	52.
263	36294.	756.3	758.0	-1.7	-1.9	020	52.
264	36432.	756.8	758.5	-1.7	-1.9	020	52.
265	36570.	757.3	759.0	-1.7	-1.9	020	52.
266	36708.	757.8	759.5	-1.7	-1.9	020	53.
267	36846.	758.3	760.0	-1.7	-1.9	020	53.
268	36984.	758.8	760.5	-1.8	-1.9	020	53.
269	37122.	759.3	761.0	-1.8	-1.9	020	53.
270	37260.	759.8	761.5	-1.8	-1.9	020	53.
271	37398.	760.3	762.0	-1.8	-1.9	020	54.
	37520.					SEC. 37630.000	
272	37536.	760.8	762.3	-1.6	-1.9	020	54.
	37570.					SEC. 37680.000	
	37590.					SEC. 37700.000	
	37640.					SEC. 37750.000	
273	37674.	761.5	764.3	-2.7	-1.9	020	53.
274	37812.	761.8	764.4	-2.6	-1.9	020	53.
275	37950.	762.1	764.5	-2.4	-1.9	020	53.
276	38088.	762.4	764.6	-2.2	-1.9	020	53.
277	38226.	762.8	764.8	-2.0	-1.9	020	53.
278	38364.	763.1	764.9	-1.8	-1.9	020	54.
279	38502.	763.5	765.0	-1.6	-1.9	020	54.
280	38640.	763.8	765.1	-1.3	-1.9	020	54.
281	38778.	764.1	765.3	-1.1	-1.9	020	53.
282	38916.	764.5	765.4	-0.9	-1.9	020	53.
283	39054.	764.8	765.5	-0.7	-1.9	020	53.
	39140.					SEC. 39250.000	
284	39192.	765.2	765.8	-0.6	-1.9	020	54.
285	39330.	765.6	766.3	-0.6	-1.9	020	53.
286	39468.	766.1	766.9	-0.8	-1.9	020	53.
287	39606.	766.6	767.6	-1.0	-1.9	020	53.
288	39744.	767.1	768.3	-1.2	-1.9	020	52.
289	39882.	767.5	769.0	-1.4	-1.9	020	53.
290	40020.	768.0	769.7	-1.6	-1.9	020	53.
	40068.					SEC. 40178.000	
	40118.					SEC. 40228.000	
	40142.					SEC. 40252.000	
291	40158.	770.2	772.7	-2.5	-1.9	020	53.
	40192.					SEC. 40302.000	
292	40296.	771.6	774.0	-2.4	-1.9	020	52.
293	40434.	773.1	775.4	-2.3	-1.9	020	53.
294	40572.	774.0	776.2	-2.2	-1.9	020	53.
295	40710.	774.8	777.0	-2.1	-1.9	020	53.
296	40848.	775.7	777.7	-2.0	-1.9	020	53.
297	40986.	776.6	778.5	-1.9	-1.9	020	53.
298	41124.	777.4	779.2	-1.8	-1.9	020	53.
	41155.					SEC. 41265.000	

299	41262.	778.1	779.8	-1.8	-1.9	020	54.
300	41400.	778.4	780.2	-1.7	-1.9	020	54.
301	41538.	778.7	780.4	-1.7	-1.9	020	54.
302	41676.	779.0	780.7	-1.7	-1.9	020	54.
303	41814.	779.3	781.0	-1.7	-1.9	020	54.
304	41952.	779.6	781.3	-1.7	-1.9	020	54.
305	42090.	779.9	781.6	-1.7	-1.9	020	54.
	42105.					SEC. 42215.000	
306	42228.	780.2	781.8	-1.6	-1.9	020	55.
307	42366.	780.5	782.0	-1.5	-1.9	020	55.
308	42504.	780.8	782.2	-1.4	-1.9	020	55.
309	42642.	781.1	782.4	-1.3	-1.9	020	55.
310	42780.	781.4	782.6	-1.2	-1.9	020	55.
311	42918.	781.7	782.8	-1.1	-1.9	020	55.
312	43056.	782.0	783.0	-1.0	-1.9	020	55.
	43140.					SEC. 43250.000	
313	43194.	782.4	783.2	-0.9	-1.9	020	55.
314	43332.	782.9	783.8	-0.8	-1.9	020	55.
315	43470.	783.6	784.5	-0.8	-1.9	020	55.
316	43608.	784.3	785.2	-0.9	-1.9	020	55.
317	43746.	785.0	785.9	-0.9	-1.8	020	55.
318	43884.	785.7	786.6	-0.9	-1.8	020	54.
319	44022.	786.4	787.3	-0.9	-1.8	020	55.
	44140.					SEC. 44250.000	
320	44160.	787.1	788.0	-0.9	-1.8	020	55.
321	44298.	787.8	788.6	-0.9	-1.8	020	55.
322	44436.	788.4	789.3	-0.9	-1.8	020	54.
323	44574.	789.0	789.9	-0.9	-1.8	020	54.
324	44712.	789.6	790.5	-0.9	-1.8	020	54.
325	44850.	790.2	791.1	-1.0	-1.8	020	54.
326	44988.	790.8	791.7	-1.0	-1.8	020	54.
327	45126.	791.4	792.4	-1.0	-1.8	020	53.
328	45264.	792.0	793.0	-1.0	-1.8	020	53.
329	45402.	792.6	793.6	-1.0	-1.8	020	53.
330	45540.	793.2	794.2	-1.1	-1.8	020	54.
331	45678.	793.8	794.8	-1.1	-1.8	020	53.
	45730.					SEC. 45840.000	
332	45816.	794.3	795.4	-1.1	-1.8	020	53.
333	45954.	794.9	795.9	-1.1	-1.8	020	53.
334	46092.	795.4	796.4	-1.0	-1.8	020	53.
335	46230.	795.9	796.9	-1.0	-1.8	020	52.
336	46368.	796.4	797.4	-1.0	-1.8	020	53.
337	46506.	796.9	797.9	-0.9	-1.8	020	53.
338	46644.	797.4	798.3	-0.9	-1.8	020	53.
339	46782.	797.9	798.8	-0.9	-1.8	020	53.
340	46920.	798.5	799.3	-0.8	-1.8	020	52.
341	47058.	799.0	799.8	-0.8	-1.8	020	52.
	47130.					SEC. 47240.000	

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 202 151 341
 A NEGATIVE INC NO. WILL SUPPRESS INTERMEDIATE INC OUTPUT.

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

C
 T1 DAVIDSON COUNTY BASIN 1 STRM 14 LEONARD CREEK
 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	Q	WSEL	F0
	-1.	4.	0.	0.	0.0	0.0	0.0	0.	638.120	0.0

J2	NPROF	IPL0T	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	200.000	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	2250.000	3670.000	4750.000	6900.000	4750.000	0.0	0.0	0.0	0.0
ET	5.000	0.0	0.0	0.0	0.0	-10.400	0.0	0.0	0.0	0.0

A

X1	110.000	12.000	1070.000	1104.000	110.000	110.000	110.000	0.0	-1.000	0.0
GR	653.300	1000.000	638.400	1029.000	635.800	1047.000	636.900	1070.000	630.600	1074.000
GR	629.500	1087.000	630.300	1101.000	633.500	1104.000	636.500	1116.000	647.500	1135.000
GR	649.200	1157.000	662.100	1185.000	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.060	0.060	0.040	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	135.000	26.000	1717.000	1747.000	25.000	25.000	25.000	0.0	0.0	0.0
GR	652.600	1000.000	644.100	1100.000	643.500	1200.000	643.900	1300.000	645.700	1400.000
GR	647.500	1500.000	640.300	1600.000	638.400	1700.000	638.300	1717.000	630.800	1717.000
GR	630.300	1718.000	629.100	1720.000	629.500	1732.000	628.700	1741.000	630.300	1747.000
GR	638.300	1747.000	639.300	1800.000	644.300	1900.000	645.600	2000.000	643.700	2100.000
GR	644.000	2200.000	646.900	2300.000	648.800	2400.000	650.000	2500.000	652.700	2600.000
GR	653.800	2629.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SB	0.900	1.500	2.500	0.0	30.000	0.010	209.000	0.0	0.0	0.0

RDN0 NCSR 2726 MXLCEL 636.3 RDELV 638.3

X1	148.000	0.0	0.0	0.0	13.000	13.000	13.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	636.300	638.300	0.0	0.0	0.0	0.0	0.0
BT	20.000	1000.000	652.600	0.0	1100.000	644.100	0.0	1200.000	643.500	0.0
BT	1300.000	643.900	0.0	1400.000	645.700	0.0	1500.000	647.500	0.0	1600.000
BT	640.300	0.0	1700.000	638.400	0.0	1717.000	638.300	636.300	1747.000	638.300
BT	636.300	1800.000	639.300	0.0	1900.000	644.300	0.0	2000.000	645.600	0.0
BT	2100.000	643.700	0.0	2200.000	644.000	0.0	2300.000	646.900	0.0	2400.000

BT	648,800	0.0	2500,000	450,000	0.0	2600,000	652,700	0.0	2629,000	653,800
BT	0.0	0.0	0.0	0.0	0.0	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

X1	163,000	12,000	1070,000	1104,000	17,000	17,000	17,000	0.0	0.0	0.0
GR	653,300	1000,000	638,400	1029,000	635,800	1047,000	636,900	1070,000	630,600	1074,000
GR	629,500	1087,000	630,300	1101,000	633,500	1104,000	636,500	1116,000	647,500	1135,000
GR	649,200	1157,000	662,100	1185,000	0.0	0.0	0.0	0.0	0.0	0.0
QT	5,000	2230,000	3650,000	4730,000	6870,000	4730,000	0.0	0.0	0.0	0.0

X1	225,000	12,000	1070,000	1104,000	60,000	60,000	60,000	0.0	0.900	0.0
GR	653,300	1000,000	638,400	1029,000	635,800	1047,000	636,900	1070,000	630,600	1074,000
GR	629,500	1087,000	630,300	1101,000	633,500	1104,000	636,500	1116,000	647,500	1135,000
GR	649,200	1157,000	662,100	1185,000	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.060	0.060	0.040	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	275,000	23,000	1600,000	1714,000	50,000	50,000	50,000	0.0	0.0	0.0
GR	673,600	1000,000	673,800	1100,000	674,200	1200,000	674,600	1300,000	674,900	1400,000
GR	675,500	1500,000	676,200	1600,000	637,500	1600,000	636,500	1629,000	633,900	1650,000
GR	632,600	1664,000	632,100	1671,000	631,200	1686,000	632,000	1700,000	637,300	1701,000
GR	640,000	1714,000	677,200	1714,000	678,000	1800,000	679,000	1900,000	680,100	2000,000
GR	681,200	2100,000	682,300	2200,000	683,300	2300,000	0.0	0.0	0.0	0.0
SB	0.900	1.500	2.500	0.0	100,000	0.010	2359,000	0.0	0.0	0.0

RONO SOUTHERN RR. MXLCEL 665.5 RDELV 678.2

X1	305,000	0.0	0.0	0.0	30,000	30,000	30,000	0.0	0.0	0.0
X2	0.0	0.0	1,000	665,500	673,600	0.0	0.0	0.0	0.0	0.0
BT	26,000	1000,000	673,600	0.0	1100,000	673,800	0.0	1200,000	674,200	0.0
BT	1300,000	674,600	0.0	1400,000	674,900	0.0	1500,000	675,500	0.0	1599,900
BT	676,200	0.0	1600,000	677,500	637,500	1615,000	677,600	659,700	1629,000	677,700
BT	664,800	1643,000	677,800	660,100	1649,000	677,900	644,000	1650,000	677,900	633,900
BT	1664,000	678,000	632,600	1665,000	678,000	644,000	1671,000	678,100	660,500	1686,000
BT	678,200	665,500	1701,000	678,300	660,500	1714,000	678,500	640,000	1714,100	677,200
BT	0.0	1800,000	678,000	0.0	1900,000	679,000	0.0	2000,000	680,100	0.0
BT	2100,000	681,200	0.0	2200,000	682,300	0.0	2300,000	683,300	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
ET	0.0	0.0	0.0	0.0	0.0	7.100	1028,000	1120,000	0.0	0.0

X1	355,000	12,000	1070,000	1104,000	50,000	50,000	50,000	0.0	2.500	0.0
GR	653,300	1000,000	638,400	1029,000	635,800	1047,000	636,900	1070,000	630,600	1074,000
GR	629,500	1087,000	630,300	1101,000	633,500	1104,000	636,500	1116,000	647,500	1135,000
GR	649,200	1157,000	662,100	1185,000	0.0	0.0	0.0	0.0	0.0	0.0
QT	5,000	2230,000	3630,000	4710,000	6850,000	4710,000	0.0	0.0	0.0	0.0
ET	0.0	0.0	0.0	0.0	0.0	7.100	1200,000	1500,000	0.0	0.0

X1	2300,000	24,000	1347,000	1374,000	1945,000	1945,000	1945,000	0.0	0.0	0.0
GR	655,600	1000,000	640,300	1025,000	640,200	1100,000	640,100	1200,000	640,600	1300,000
GR	639,900	1310,000	638,800	1314,000	640,800	1319,000	641,100	1327,000	637,100	1333,000
GR	637,500	1347,000	634,800	1351,000	633,400	1364,000	635,300	1370,000	641,000	1374,000
GR	639,900	1400,000	642,900	1500,000	643,800	1600,000	644,500	1700,000	645,100	1800,000
GR	645,700	1900,000	647,600	2000,000	652,600	2100,000	653,400	2125,000	0.0	0.0
QT	5,000	2200,000	3620,000	4700,000	6840,000	4700,000	0.0	0.0	0.0	0.0
ET	0.0	0.0	0.0	0.0	0.0	-10,400	0.0	0.0	0.0	0.0

X1	3983,000	23,000	1830,000	1871,000	1933,000	1933,000	1933,000	0.0	0.0	0.0
GR	661,300	1000,000	653,800	1100,000	651,300	1200,000	649,600	1300,000	648,200	1400,000
GR	647,900	1500,000	645,700	1600,000	644,800	1700,000	646,400	1800,000	644,600	1812,000
GR	644,100	1817,000	643,600	1830,000	639,300	1839,000	638,100	1846,000	639,400	1853,000

GR	646.300	1871.000	647.100	1900.000	647.900	2000.000	647.300	2100.000	647.600	2200.000
GR	646.100	2300.000	648.900	2400.000	660.700	2475.000	0.0	0.0	0.0	0.0
NC	0.060	0.060	0.040	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	4083.000	25.000	2402.000	2532.000	100.000	100.000	100.000	0.0	0.0	0.0
GR	678.200	1000.000	666.400	1300.000	660.200	1600.000	658.900	1700.000	658.000	1800.000
GR	658.300	1900.000	658.800	2000.000	659.700	2100.000	659.900	2200.000	663.000	2300.000
GR	663.100	2400.000	663.200	2402.000	659.300	2402.000	657.900	2407.000	642.800	2430.000
GR	638.800	2447.000	638.700	2467.000	639.800	2478.000	649.100	2496.000	650.400	2515.000
GR	660.000	2532.000	665.400	2532.000	666.400	2600.000	670.400	2800.000	676.100	3100.000
SB	1.250	1.500	2.500	0.0	130.000	5.000	1772.000	0.0	0.0	0.0

RDN0 I-05 29-70 NS MXLCEL N-661.7 S-661.9 RDELV N-665.4 S-665.6

X1	4117.000	0.0	0.0	0.0	34.000	34.000	34.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	661.700	0.0	0.0	0.0	0.0	0.0	0.0
BT	16.000	1000.000	678.200	0.0	1300.000	666.400	0.0	1600.000	660.200	0.0
BT	1700.000	658.900	0.0	1800.000	658.000	0.0	1900.000	658.300	0.0	2000.000
BT	658.800	0.0	2100.000	659.700	0.0	2200.000	659.900	0.0	2300.000	663.000
BT	0.0	2400.000	663.100	0.0	2402.000	663.200	659.500	2532.000	665.400	661.700
BT	2600.000	666.400	0.0	2800.000	670.400	0.0	3100.000	676.100	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

X1	4132.000	0.0	0.0	0.0	15.000	15.000	15.000	0.0	0.100	0.0
NC	0.060	0.060	0.040	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	4147.000	0.0	0.0	0.0	15.000	15.000	15.000	0.0	0.100	0.0
SB	1.250	1.500	2.500	0.0	130.000	5.000	1772.000	0.0	0.0	0.0

X1	4181.000	0.0	0.0	0.0	34.000	34.000	34.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	661.900	0.0	0.0	0.0	0.0	0.0	0.0
BT	16.000	1000.000	678.400	0.0	1300.000	666.600	0.0	1600.000	660.400	0.0
BT	1700.000	659.100	0.0	1800.000	658.200	0.0	1900.000	658.500	0.0	2000.000
BT	659.000	0.0	2100.000	659.900	0.0	2200.000	660.100	0.0	2300.000	663.200
BT	0.0	2400.000	663.300	0.0	2402.000	663.400	659.700	2532.000	665.600	661.900
BT	2600.000	666.600	0.0	2800.000	670.600	0.0	3100.000	676.300	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

X1	4281.000	23.000	1830.000	1871.000	100.000	100.000	100.000	0.0	1.000	0.0
GR	661.300	1000.000	653.800	1100.000	651.300	1200.000	649.600	1300.000	648.200	1400.000
GR	647.900	1500.000	645.700	1600.000	644.800	1700.000	646.400	1800.000	644.600	1812.000
GR	644.100	1817.000	643.600	1830.000	639.300	1839.000	638.100	1846.000	639.400	1853.000
GR	646.300	1871.000	647.100	1900.000	647.900	2000.000	647.300	2100.000	647.600	2200.000
GR	648.100	2300.000	648.900	2400.000	660.700	2475.000	0.0	0.0	0.0	0.0
QT	5.000	2200.000	3620.000	4700.000	6840.000	4700.000	0.0	0.0	0.0	0.0

X1	4739.000	16.000	1158.000	1131.000	468.000	458.000	458.000	0.0	0.0	0.0
GR	663.700	1000.000	662.300	1028.000	656.900	1050.000	655.500	1100.000	648.100	1128.000
GR	647.700	1158.000	643.400	1161.000	640.700	1168.000	643.200	1175.000	648.700	1181.000
GR	648.000	1200.000	647.400	1300.000	649.000	1450.000	653.400	1500.000	660.600	1600.000
GR	664.000	1640.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.060	0.060	0.040	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	4839.000	25.000	1557.000	1717.000	100.000	100.000	100.000	0.0	0.0	0.0
GR	679.400	1000.000	674.400	1100.000	669.300	1200.000	666.100	1300.000	662.200	1400.000
GR	662.000	1500.000	664.200	1557.000	659.000	1557.000	648.800	1589.000	642.000	1590.000
GR	641.500	1602.000	641.600	1613.000	643.200	1617.000	646.300	1637.000	645.500	1662.000
GR	649.500	1687.000	659.000	1717.000	664.200	1717.000	663.300	1800.000	663.800	1900.000

GR	664.500	2000.000	666.700	2100.000	670.600	2200.000	675.500	2300.000	679.400	2370.000
SB	0.900	1.500	2.500	0.0	160.000	6.000	1584.000	0.0	0.0	0.0

RDNQ NCSR 1844 MXLCEL 659.0 RDELV 664.2

X1	5061 4861.000	0.0	0.0	0.0	22.000	22.000	22.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	659.000	662.000	0.0	0.0	0.0	0.0	0.0
BT	15.000	1000.000	679.400	0.0	1100.000	674.400	0.0	1200.000	669.300	0.0
BT	1300.000	666.100	0.0	1400.000	662.200	0.0	1500.000	662.000	0.0	1557.000
BT	664.200	659.000	1717.000	664.200	659.000	1800.000	663.300	0.0	1900.000	663.800
BT	0.0	2000.000	664.500	0.0	2100.000	666.700	0.0	2200.000	670.600	0.0
BT	2300.000	675.500	0.0	2370.000	679.400	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

X1	5161 4961.000	16.000	1158.000	1181.000	100.000	100.000	100.000	0.0	1.600	0.0
GR	663.700	1000.000	662.300	1025.000	656.900	1050.000	655.500	1100.000	648.100	1128.000
GR	647.700	1158.000	643.400	1161.000	640.700	1168.000	643.200	1175.000	648.700	1181.000
GR	648.000	1200.000	647.400	1300.000	649.000	1400.000	653.400	1500.000	660.600	1500.000
GR	664.000	1640.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
QT	5.000	2000.000	3280.000	4020.000	6020.000	4020.000	0.0	0.0	0.0	0.0
ET	0.0	0.0	0.0	0.0	0.0	-3.400	0.0	0.0	0.0	0.0

X1	6800 6600.000	12.000	1275.000	1301.000	1639.000	1639.000	1639.000	0.0	0.0	0.0
GR	665.700	1000.000	655.100	1100.000	648.900	1200.000	650.400	1275.000	646.500	1286.000
GR	644.600	1294.000	646.700	1300.000	649.800	1301.000	648.300	1375.000	650.900	1400.000
GR	663.400	1500.000	665.600	1513.000	0.0	0.0	0.0	0.0	0.0	0.0
QT	5.000	1990.000	3250.000	4000.000	6000.000	4000.000	0.0	0.0	0.0	0.0
ET	0.0	0.0	0.0	0.0	0.0	-5.400	0.0	0.0	0.0	0.0

X1	9150 8950.000	15.000	1321.000	1341.000	2350.000	2350.000	2350.000	0.0	0.0	0.0
GR	668.900	1000.000	657.700	1100.000	653.300	1150.000	653.000	1200.000	653.900	1300.000
GR	654.400	1321.000	650.000	1322.000	648.600	1331.000	650.200	1340.000	654.200	1341.000
GR	653.900	1400.000	653.600	1500.000	653.900	1590.000	656.300	1600.000	669.000	1635.000
QT	5.000	1290.000	2220.000	2790.000	4090.000	2790.000	0.0	0.0	0.0	0.0
ET	0.0	0.0	0.0	0.0	0.0	-7.400	0.0	0.0	0.0	0.0

X1	10787 10587.000	18.000	1286.000	1311.000	1637.000	1637.000	1637.000	0.0	-4.000	0.0
GR	673.100	1000.000	667.800	1086.000	662.200	1100.000	658.000	1174.000	657.700	1200.000
GR	658.700	1286.000	655.100	1296.000	654.800	1302.000	654.900	1309.000	658.400	1311.000
GR	657.500	1400.000	658.100	1500.000	658.900	1600.000	661.100	1700.000	662.500	1800.000
GR	665.300	1900.000	669.600	2000.000	672.700	2100.000	0.0	0.0	0.0	0.0

X1	10857 10687.000	23.000	1604.000	1635.000	111.000	89.000	100.000	0.710	0.0	0.0
GR	680.100	1000.000	675.800	1100.000	671.800	1200.000	668.600	1300.000	666.000	1400.000
GR	664.500	1500.000	664.100	1600.000	664.500	1604.000	655.400	1604.000	655.800	1609.000
GR	651.000	1619.000	655.700	1629.000	656.200	1635.000	664.500	1635.000	664.400	1700.000
GR	665.300	1800.000	665.900	1900.000	665.600	2000.000	666.700	2100.000	669.100	2200.000
GR	671.400	2300.000	677.600	2400.000	680.100	2439.000	0.0	0.0	0.0	0.0
SB	0.900	1.500	2.500	0.0	31.000	0.010	256.000	0.0	0.0	0.0

RDNQ NCSR 1843 MXLCEL 662.5 RDELV 664.5

X1	10913 10713.000	0.0	0.0	0.0	26.000	26.000	26.000	0.710	0.0	0.0
X2	0.0	0.0	1.000	662.500	664.100	0.0	0.0	0.0	0.0	0.0
BT	18.000	1000.000	680.100	0.0	1100.000	675.800	0.0	1200.000	671.800	0.0
BT	1300.000	668.600	0.0	1400.000	666.000	0.0	1500.000	664.500	0.0	1600.000
BT	664.100	0.0	1604.000	664.500	662.500	1635.000	664.500	662.500	1700.000	664.400
BT	0.0	1800.000	665.300	0.0	1900.000	665.900	0.0	2000.000	665.600	0.0
BT	2100.000	666.700	0.0	2200.000	669.100	0.0	2300.000	671.400	0.0	2400.000

BT	577.600	0.0	2439.000	680.100	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.055	0.055	0.055	0.100	0.300	0.0	0.0	0.0	0.0	0.0
ET	0.0	0.0	0.0	0.0	0.0	-10.400	0.0	0.0	0.0	0.0

11013

X1	10813.000	18.000	1286.000	1311.000	89.000	111.000	100.000	0.0	-1.800	0.0
GR	673.100	1000.000	667.800	1086.000	662.200	1100.000	658.000	1174.000	657.700	1200.000
GR	658.700	1286.000	655.100	1296.000	654.800	<u>1302.000</u>	654.900	1309.000	658.400	1311.000
GR	657.500	1400.000	658.100	1500.000	658.900	1600.000	661.100	1700.000	662.500	1800.000
GR	665.300	1900.000	669.600	2000.000	672.700	2100.000	0.0	0.0	0.0	0.0
QT	5.000	1270.000	2200.000	2770.000	4070.000	2770.000	0.0	0.0	0.0	0.0

12284

X1	12140.000	16.000	1185.000	1202.000	1327.000	1327.000	1327.000	0.0	0.0	0.0
GR	676.600	1000.000	667.100	1035.000	668.600	1074.000	665.400	1100.000	660.000	1133.000
GR	661.400	1185.000	656.600	1187.000	655.100	<u>1195.000</u>	656.400	1200.000	659.800	1202.000
GR	659.900	1300.000	660.400	1321.000	662.200	1400.000	667.300	1500.000	675.800	1600.000
GR	676.600	1605.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

12389

X1	12240.000	24.000	1389.000	1423.000	100.000	100.000	100.000	0.0	0.0	0.0
GR	681.000	1000.000	674.000	1100.000	669.100	1200.000	665.800	1300.000	665.500	1389.000
GR	656.900	1389.000	656.700	1392.000	655.900	1402.000	656.300	1406.000	657.100	1412.000
GR	656.800	1418.000	658.800	1423.000	665.500	1423.000	665.400	1500.000	665.500	1600.000
GR	665.500	1700.000	665.600	1800.000	666.400	1900.000	667.500	2000.000	668.800	2100.000
GR	670.700	2200.000	673.600	2300.000	677.800	2400.000	681.000	2479.000	0.0	0.0
SB	0.900	1.500	2.500	0.0	34.000	1.000	229.000	0.0	0.0	0.0

RCNO NCSR 1841 MXLCEL 663.8 RDELV 665.5

12410

X1	12261.000	0.0	0.0	0.0	21.000	21.000	21.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	663.800	665.400	0.0	0.0	0.0	0.0	0.0
BT	17.000	1000.000	681.000	0.0	1100.000	674.000	0.0	1200.000	669.100	0.0
BT	1300.000	665.800	0.0	1389.000	665.500	663.800	1423.000	665.500	663.600	1500.000
BT	665.400	0.0	1600.000	665.500	0.0	1700.000	665.500	0.0	1800.000	665.600
BT	0.0	1900.000	666.400	0.0	2000.000	667.500	0.0	2100.000	668.800	0.0
BT	2200.000	670.700	0.0	2300.000	673.600	0.0	2400.000	677.800	0.0	2479.000
BT	681.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

12510

X1	12361.000	16.000	1185.000	1202.000	100.000	100.000	100.000	0.0	0.800	0.0
GR	676.600	1000.000	667.100	1035.000	668.600	1074.000	665.400	1100.000	660.000	1133.000
GR	661.400	1185.000	656.600	1187.000	655.100	1195.000	656.400	1200.000	659.800	1202.000
GR	659.900	1300.000	660.400	1321.000	662.200	1400.000	667.300	1500.000	675.800	1600.000
GR	676.600	1605.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
QT	5.000	1270.000	2200.000	2770.000	4070.000	2770.000	0.0	0.0	0.0	0.0

13000

X1	12725.000	15.000	1175.000	1198.000	364.000	364.000	364.000	0.0	0.0	0.0
GR	677.400	1000.000	668.800	1035.000	661.700	1100.000	662.600	1175.000	657.400	1181.000
GR	656.000	<u>1186.000</u>	657.400	1195.000	662.600	1198.000	662.600	1200.000	663.700	1300.000
GR	666.400	1400.000	666.100	1500.000	668.600	1600.000	673.000	1700.000	677.300	1750.000
QT	5.000	1250.000	2180.000	2760.000	4060.000	2760.000	0.0	0.0	0.0	0.0

13400

X1	13090.000	13.000	1100.000	1192.000	365.000	365.000	365.000	0.0	0.0	0.0
GR	678.600	1000.000	672.300	1042.000	660.300	1100.000	659.600	1102.000	657.400	<u>1133.000</u>
GR	660.100	1164.000	663.700	1192.000	664.000	1200.000	666.200	1300.000	669.300	1400.000
GR	672.000	1500.000	675.100	1600.000	678.600	1650.000	0.0	0.0	0.0	0.0

13600

X1	13290.000	16.000	1245.000	1400.000	200.000	200.000	200.000	0.0	-0.800	0.0
GR	703.500	1000.000	689.000	1090.000	679.400	1095.000	675.100	1100.000	671.000	1200.000
GR	664.800	1245.000	661.800	1255.000	661.800	1347.000	664.800	1400.000	668.700	1500.000
GR	672.300	1600.000	677.600	1700.000	682.200	1800.000	686.100	1900.000	689.000	1919.000

GR	700.000	2000.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X1	¹³⁶⁵⁰ 13340.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.800	0.0
SB	0.900	1.500	2.500	0.0	0.100	0.010	0.100	0.0	0.0	0.0

RDN0 CITY LAKE DAM MXLCEL 0

RDELV 684.5

X1	¹³⁷⁵⁰ 13440.000	0.0	0.0	0.0	100.000	100.000	100.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BT	9.000	1000.000	703.500	0.0	1090.000	689.000	0.0	1255.000	688.900	0.0
BT	1267.000	688.900	0.0	1268.000	684.500	0.0	1346.000	684.500	0.0	1347.000
BT	689.000	0.0	1919.000	689.000	0.0	2000.000	700.000	0.0	0.0	0.0

X1	¹³⁸⁴⁰ 13490.000	0.0	0.0	¹³⁰¹ 0.0	50.000	50.000	50.000	0.0	0.800	0.0
QT	5.000	1200.000	2100.000	2600.000	3800.000	2600.000	0.0	0.0	0.0	0.0

X1	¹⁸⁸⁰⁰ 18440.000	17.000	1465.000	1476.000	⁵⁰⁰⁰ 4950.000	⁵⁰⁰⁰ 4950.000	⁵⁰⁰⁰ 4950.000	0.0	0.0	0.0
GR	701.200	1000.000	696.400	1027.000	687.800	1100.000	686.300	1106.000	685.500	1200.000
GR	686.100	1300.000	685.700	1400.000	686.900	1465.000	685.900	1466.000	685.300	<u>1470.000</u>
GR	686.100	1475.000	687.100	1476.000	686.700	1500.000	686.300	1577.000	689.200	1600.000
GR	699.300	1700.000	703.100	1744.000	0.0	0.0	0.0	0.0	0.0	0.0
QT	5.000	1130.000	1990.000	2450.000	3700.000	2450.000	0.0	0.0	0.0	0.0
ET	0.0	0.0	0.0	0.0	0.0	-7.400	0.0	0.0	0.0	0.0

X1	²¹¹⁰⁰ 20790.000	12.000	1168.000	1193.000	2350.000	2350.000	2350.000	0.0	0.0	0.0
GR	708.800	1000.000	692.500	1100.000	693.400	1168.000	690.900	1169.000	689.600	<u>1175.000</u>
GR	690.800	1189.000	693.800	1193.000	693.600	1200.000	691.800	1300.000	692.100	1361.000
GR	701.300	1400.000	706.000	1428.000	0.0	0.0	0.0	0.0	0.0	0.0
QT	5.000	1100.000	1920.000	2370.000	3590.000	2370.000	0.0	0.0	0.0	0.0
ET	0.0	0.0	0.0	0.0	0.0	-10.400	0.0	0.0	0.0	0.0

X1	²³⁷⁰⁰ 23460.000	12.000	1200.000	1230.000	²⁶⁰⁰ 2670.000	²⁶⁰⁰ 2670.000	²⁶⁰⁰ 2670.000	0.0	0.0	0.0
GR	721.800	1000.000	712.100	1070.000	710.000	1100.000	706.300	1200.000	702.400	1203.000
GR	701.100	<u>1215.000</u>	702.600	1227.000	706.500	1230.000	706.500	1300.000	706.700	1334.000
GR	713.900	1400.000	721.800	1467.000	0.0	0.0	0.0	0.0	0.0	0.0
QT	5.000	1090.000	1910.000	2360.000	3580.000	2360.000	0.0	0.0	0.0	0.0
ET	0.0	0.0	0.0	0.0	0.0	-7.400	0.0	0.0	0.0	0.0

X1	²⁵¹³⁹ 24879.000	12.000	1395.000	1409.000	¹⁴³⁹ 1419.000	¹⁴³⁹ 1419.000	¹⁴³⁹ 1419.000	0.0	0.0	0.0
GR	726.300	1000.000	719.500	1100.000	712.900	1200.000	711.700	1300.000	712.400	1395.000
GR	707.400	1399.000	706.200	<u>1403.000</u>	707.100	1406.000	712.000	1409.000	714.700	1500.000
GR	716.700	1600.000	726.400	1678.000	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.060	0.060	0.040	0.100	0.300	0.0	0.0	0.0	0.0	0.0
ET	0.0	0.0	0.0	0.0	0.0	-10.400	0.0	0.0	0.0	0.0

X1	²⁵¹⁸⁹ 24929.000	18.000	1418.000	1441.000	50.000	50.000	50.000	0.0	0.0	0.0
GR	732.900	1000.000	726.700	1100.000	721.600	1200.000	718.700	1300.000	717.600	1400.000
GR	717.400	1418.000	711.500	1418.000	709.300	1423.000	707.000	1424.000	706.500	1429.000
GR	706.700	1439.000	708.100	1440.000	708.100	1441.000	717.400	1441.000	718.700	1500.000
GR	724.100	1600.000	731.700	1700.000	732.900	1712.000	0.0	0.0	0.0	0.0
SB	0.900	1.500	2.500	0.0	23.000	0.010	181.000	0.0	0.0	0.0

RDN0 NCSR 1838 MXLCEL 715.5

RDELV 717.4

X1	²⁵²¹¹ 24951.000	0.0	0.0	0.0	22.000	22.000	22.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	715.500	717.400	0.0	0.0	0.0	0.0	0.0
BT	11.000	1000.000	732.800	0.0	1100.000	726.700	0.0	1200.000	721.600	0.0

BT	1300.000	718.700	0.0	1400.000	717.600	0.0	1418.000	717.400	715.500	1441.000
BT	717.400	715.500	1500.000	718.700	0.0	1600.000	724.100	0.0	1700.000	731.700
BT	0.0	1712.000	732.900	0.0	0.0	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
ET	0.0	0.0	0.0	0.0	0.0	7.100	1340.000	1440.000	0.0	0.0

X1	25001.000	12.000	1395.000	1409.000	50.000	50.000	50.000	0.0	0.600	0.0
GR	726.300	1000.000	719.500	1100.000	712.900	1200.000	711.700	1300.000	712.400	1395.000
GR	707.400	1399.000	706.200	1403.000	707.100	1406.000	712.000	1409.000	714.700	1500.000
GR	716.700	1600.000	726.400	1678.000	0.0	0.0	0.0	0.0	0.0	0.0
QT	5.000	1050.000	1850.000	2290.000	3400.000	2290.000	0.0	0.0	0.0	0.0
ET	0.0	0.0	0.0	0.0	0.0	-10.400	0.0	0.0	0.0	0.0

X1	25915.000	15.000	1346.000	1377.000	914.000	914.000	914.000	0.0	0.0	0.0
GR	728.900	1000.000	722.500	1100.000	717.600	1200.000	715.100	1264.000	716.900	1300.000
GR	714.200	1346.000	711.400	1348.000	710.800	1355.000	711.500	1368.000	715.600	1377.000
GR	714.900	1400.000	715.500	1500.000	717.700	1574.000	722.100	1600.000	728.900	1631.000
QT	5.000	1000.000	1760.000	2200.000	3300.000	2200.000	0.0	0.0	0.0	0.0

X1	27027.000	11.000	1300.000	1334.000	1112.000	1112.000	1112.000	0.0	0.0	0.0
GR	730.000	1000.000	725.700	1100.000	725.900	1200.000	724.800	1270.000	723.900	1300.000
GR	719.400	1306.000	718.900	1318.000	719.600	1332.000	723.700	1334.000	728.600	1400.000
GR	738.200	1456.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.060	0.060	0.040	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	27077.000	16.000	1392.000	1416.000	50.000	50.000	50.000	0.0	0.0	0.0
GR	743.500	1000.000	738.300	1100.000	733.800	1200.000	730.000	1300.000	728.800	1392.000
GR	722.200	1392.000	722.200	1393.000	720.700	1394.000	719.300	1404.000	720.200	1410.000
GR	722.900	1415.000	722.900	1416.000	728.800	1416.000	730.800	1500.000	739.400	1600.000
GR	743.500	1655.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SB	0.900	1.500	2.500	0.0	24.000	0.010	148.000	0.0	0.0	0.0

RDNO NCSR 1837 MXLCEL 726.7 RDELV 728.8

X1	27103.000	0.0	0.0	0.0	26.000	26.000	26.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	726.700	728.800	0.0	0.0	0.0	0.0	0.0
BT	9.000	1000.000	743.500	0.0	1100.000	738.300	0.0	1200.000	733.800	0.0
BT	1300.000	730.000	0.0	1392.000	728.800	726.700	1416.000	728.800	726.700	1500.000
BT	730.800	0.0	1600.000	739.400	0.0	1655.000	743.500	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
ET	0.0	0.0	0.0	0.0	0.0	7.100	1250.000	1350.000	0.0	0.0

X1	27153.000	11.000	1300.000	1334.000	50.000	50.000	50.000	0.0	0.600	0.0
GR	738.000	1000.000	729.700	1100.000	725.900	1200.000	724.800	1270.000	723.900	1300.000
GR	719.400	1306.000	718.900	1318.000	719.600	1332.000	723.700	1334.000	728.600	1400.000
GR	738.200	1456.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
QT	5.000	970.000	1720.000	2150.000	3200.000	2150.000	0.0	0.0	0.0	0.0
ET	0.0	0.0	0.0	0.0	0.0	-10.400	0.0	0.0	0.0	0.0

X1	29340.000	12.000	1262.000	1281.000	2187.000	2187.000	2187.000	0.0	0.0	0.0
GR	748.400	1000.000	739.500	1100.000	733.700	1200.000	733.000	1262.000	729.900	1265.000
GR	729.400	1272.000	730.100	1278.000	732.100	1281.000	733.500	1300.000	732.800	1400.000
GR	732.200	1500.000	748.500	1569.000	0.0	0.0	0.0	0.0	0.0	0.0
ET	0.0	0.0	0.0	0.0	0.0	5.400	0.0	0.0	0.0	0.0

X1	30790.000	0.0	0.0	0.0	1450.000	1450.000	1450.000	0.0	3.700	0.0
QT	5.000	950.000	1680.000	2100.000	3075.000	2100.000	0.0	0.0	0.0	0.0
ET	0.0	0.0	0.0	0.0	0.0	-10.400	0.0	0.0	0.0	0.0

W X1 32600 32140.000 14.000 1230.000 1265.000 1350.000 1350.000 1350.000 0.0 0.0 0.0
GR 758.300 1000.000 754.400 1050.000 747.600 1076.000 745.600 1100.000 741.600 1200.000
*GR 743.500 1230.000 738.100 1233.000 736.700 1247.000 738.300 1251.000 743.100 1265.000
GR 743.400 1300.000 742.000 1400.000 742.300 1418.000 758.700 1464.000 0.0 0.0
ET 0.0 0.0 0.0 0.0 0.0 -4.400 0.0 0.0 0.0 0.0

X1 34200 33740.000 0.0 0.0 0.0 1600.000 1600.000 1600.000 0.0 4.850 0.0
*QT 5.000 880.000 1580.000 1940.000 2840.000 1940.000 0.0 0.0 0.0 0.0
ET 0.0 0.0 0.0 0.0 0.0 -10.400 1247 0.0 0.0 0.0 0.0

X1 35600 35040.000 12.000 1250.000 1283.000 1400 1400 1400 0.0 0.0 0.0
GR 767.400 1000.000 758.800 1100.000 754.700 1200.000 752.700 1250.000 747.700 1258.000
GR 746.400 1266.000 747.400 1280.000 751.800 1283.000 752.100 1300.000 755.500 1400.000
GR 761.200 1500.000 767.900 1521.000 0.0 0.0 0.0 0.0 0.0 0.0
QT 5.000 850.000 1500.000 1850.000 2800.000 1850.000 0.0 0.0 0.0 0.0
ET 0.0 0.0 0.0 0.0 0.0 -8.400 0.0 0.0 0.0 0.0

Y X1 35190 3763.000 16.000 1406.000 1428.000 2590.000 2590.000 2590.000 0.0 0.0 0.0
GR 773.900 1000.000 764.200 1100.000 762.600 1200.000 760.900 1300.000 760.300 1385.000
GR 758.900 1400.000 758.700 1406.000 755.100 1409.000 754.300 1418.000 754.900 1424.000
GR 759.400 1428.000 758.700 1432.000 762.200 1500.000 767.400 1600.000 770.300 1700.000
GR 773.800 1795.000 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EJ 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

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

T1 DAVIDSON COUNTY BASIN I STRM 14 LEONARD CREEK
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918
 T3 100 YEAR FLOODWAY

J1	ICHECK	INO	NTNV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-10.	6.	0.	0.	0.0	0.0	0.0	0.	639.120	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 2

CCHV= 0.100 CEHV= 0.300

*SECNO 110.000

2800 NAT Q1= 557.15 WSEL= 638.13 ENC Q1= 566.90 WSEL= 639.13 RATIO= -0.0175
 NAT Q1= 708. RATIOS LOB,CH,ROB= 0.1249 0.8006 0.0745 WSEL= 639.13

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

3470 ENCROACHMENT STATIONS= 1070.0 1104.0 TYPE= 4 TARGET= 0.199

110.00	10.62	639.12	0.0	638.13	642.45	3.33	0.0	0.0	635.90
4750.	0.	4750.	0.	0.	324.	0.	0.	0.	632.50
0.0	0.0	14.65	0.0	0.055	0.035	0.055	0.0	628.50	1070.00
0.009582	110.	110.	110.	0	0	0	0.0	34.00	1104.00

CCHV= 0.100 CEHV= 0.300

*SECNO 135.000

2800 NAT Q1= 516.56 WSEL= 640.68 ENC Q1= 576.56 WSEL= 641.68 RATIO= 0.0
 NAT Q1= 778. RATIOS LOB,CH,ROB= 0.1740 0.7072 0.1187 WSEL= 641.68

3301 HV CHANGED MORE THAN HVINS

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

7165 MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 1706.7 1753.4 TYPE= 4 TARGET= 0.259

135.00	10.30	639.00	639.00	640.68	643.11	4.11	0.31	0.23	638.30
4750.	16.	4724.	9.	7.	290.	4.	0.	0.	638.30

1850.	517.	1099.	233.	213.	181.	93.	1527.	192.	759.40
3.24	2.43	6.07	2.52	0.055	0.035	0.055	0.035	754.30	1346.85
0.001517	2590.	2590.	2590.	5	0	0	0.0	102.34	1449.18

 HEC2 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 FLOOD WATER SUR

SUMMARY PRINTOUT

SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRIWS	VCH	SSTA	ENDST	AREA	DIFWSP
* A 110.000	110.00	0.0	0.0	4750.00	628.50	638.13	638.13	13.83	1027.57	1120.55	447.45	0.0
110.000	110.00	0.0	0.0	4750.00	628.50	639.12	0.0	14.65	1070.00	1104.00	324.14	0.99
* 135.000	25.00	0.0	0.0	4750.00	628.70	640.68	640.68	11.58	1594.69	1827.64	632.72	0.0
* 135.000	25.00	0.0	0.0	4750.00	628.70	639.00	639.00	16.31	1706.74	1753.43	300.77	-1.68
148.000	13.00	638.30	636.30	4750.00	628.70	640.99	0.0	10.73	1590.37	1833.87	706.91	0.0
148.000	13.00	999999.00	0.0	4750.00	628.70	639.49	639.48	15.27	1698.33	1759.96	339.25	-1.50
165.000	17.00	0.0	0.0	4750.00	629.50	641.33	0.0	9.81	1023.29	1124.35	660.74	0.0
165.000	17.00	0.0	0.0	4750.00	629.50	641.57	0.0	11.20	1051.37	1111.31	518.85	0.24
225.000	60.00	0.0	0.0	4730.00	630.40	641.21	0.0	11.34	1025.27	1122.59	559.74	0.0
225.000	60.00	0.0	0.0	4730.00	630.40	641.16	0.0	13.55	1058.37	1108.10	397.07	-0.04
275.000	50.00	0.0	0.0	4730.00	631.20	642.66	0.0	5.23	1600.00	1714.00	905.13	0.0
275.000	50.00	0.0	0.0	4730.00	631.20	643.88	0.0	4.53	1600.00	1714.00	1043.72	1.22
305.000	30.00	673.60	665.50	4730.00	631.20	642.66	0.0	5.23	1600.00	1714.00	905.19	0.0
305.000	30.00	673.60	665.50	4730.00	631.20	643.66	0.0	4.64	1600.00	1714.00	1019.16	1.00
* B 355.000	50.00	0.0	0.0	4730.00	632.00	641.60	641.60	13.86	1027.64	1120.49	444.07	0.0
355.000	50.00	0.0	0.0	4730.00	632.00	643.15	0.0	10.81	1028.00	1120.00	584.44	1.55
C 2300.000	1945.00	0.0	0.0	4710.00	633.40	645.88	0.0	3.11	1015.90	1908.86	3340.52	0.0
2300.000	1945.00	0.0	0.0	4710.00	633.40	646.60	0.0	4.41	1200.00	1500.00	1988.35	0.81
* D 3983.000	1683.00	0.0	0.0	4700.00	638.10	647.60	647.60	10.11	1513.47	2200.73	938.76	0.0
3983.000	1683.00	0.0	0.0	4700.00	638.10	648.42	648.42	11.64	1751.67	1929.36	614.73	0.81
4083.000	100.00	0.0	0.0	4700.00	638.70	647.77	0.0	9.94	2422.43	2493.43	473.06	0.0
4083.000	100.00	0.0	0.0	4700.00	638.70	649.62	0.0	7.69	2419.62	2503.52	611.41	1.85
4117.000	34.00	658.00	661.70	4700.00	638.70	648.11	0.0	9.45	2421.91	2494.09	497.50	0.0
4117.000	34.00	658.00	661.70	4700.00	638.70	649.11	0.0	8.23	2420.38	2496.20	571.40	1.00
4132.000	15.00	0.0	0.0	4700.00	638.80	648.17	0.0	9.51	2421.97	2494.01	494.42	0.0
4132.000	15.00	0.0	0.0	4700.00	638.80	649.66	0.0	7.75	2419.71	2502.62	606.29	1.49

SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	QWSEL	CRWS	VCH	SSTA	ENDST	AREA	DIFWSP
4397												
4147.000	15.00	0.0	0.0	4700.00	638.90	648.23	0.0	9.55	2422.01	2493.95	492.36	0.0
4147.000	15.00	0.0	0.0	4700.00	638.90	649.62	0.0	7.81	2419.80	2501.84	601.87	1.46
4431												
4181.000	34.00	658.20	661.90	4700.00	638.90	648.53	0.0	9.16	2421.58	2494.51	513.14	0.0
4181.000	34.00	658.20	661.90	4700.00	638.90	649.53	0.0	7.99	2420.05	2499.35	588.11	1.00
4531												
4281.000	100.00	0.0	0.0	4700.00	639.10	649.95	0.0	5.43	1346.55	2400.31	2129.66	0.0
4281.000	100.00	0.0	0.0	4700.00	639.10	650.54	0.0	6.61	1684.62	2077.09	1388.00	0.60
4431												
4739.000	453.00	0.0	0.0	4700.00	640.70	650.43	0.0	12.04	1119.19	1432.49	804.30	0.0
* F 4739.000	458.00	0.0	0.0	4700.00	640.70	651.33	651.33	13.47	1141.21	1282.65	591.99	0.90
5031												
4839.000	100.00	0.0	0.0	4700.00	641.50	651.25	0.0	7.53	1581.31	1692.53	623.88	0.0
4839.000	100.00	0.0	0.0	4700.00	641.50	653.00	0.0	5.68	1575.84	1698.04	827.37	1.75
5041												
4361.000	22.00	662.00	659.00	4700.00	641.50	651.32	0.0	7.45	1581.10	1692.74	631.26	0.0
4361.000	22.00	662.00	659.00	4700.00	641.50	652.32	0.0	6.30	1577.96	1695.90	746.02	1.00
5161												
* G 4961.000	100.00	0.0	0.0	4700.00	642.30	652.06	652.06	11.91	1119.09	1433.08	812.47	0.0
4961.000	100.00	0.0	0.0	4700.00	642.30	652.94	652.94	13.38	1141.05	1283.38	596.88	0.89
5800												
H 6600.000	1639.00	0.0	0.0	4020.00	644.60	655.68	0.0	4.00	1094.51	1438.25	1784.64	0.0
6600.000	1639.00	0.0	0.0	4020.00	644.60	656.70	0.0	3.66	1158.01	1399.42	1793.61	1.01
9150												
I 8950.000	2350.00	0.0	0.0	4000.00	648.60	657.41	0.0	4.23	1103.26	1604.82	1849.72	0.0
8950.000	2350.00	0.0	0.0	4000.00	648.60	658.06	0.0	4.24	1167.27	1544.61	1736.60	0.65
10587												
J 10587.000	1637.00	0.0	0.0	2790.00	650.80	658.36	0.0	2.35	1099.60	1789.95	2332.17	0.0
10587.000	1637.00	0.0	0.0	2790.00	650.80	658.99	0.0	2.56	1178.68	1552.43	1912.56	0.62
10687												
* 10687.000	100.00	0.0	0.0	2790.00	651.00	662.10	662.10	16.11	1428.84	1450.85	173.22	0.0
* 10687.000	100.00	0.0	0.0	2790.00	651.00	662.15	662.15	16.01	1428.84	1450.85	174.24	0.05
10713												
* 10713.000	26.00	664.10	662.50	2790.00	651.00	666.90	0.0	7.41	1184.28	1558.61	768.86	0.0
10713.000	26.00	999999.00	0.0	2790.00	651.00	666.94	0.0	9.08	1259.84	1396.85	494.00	0.05
10813												
10813.000	100.00	0.0	0.0	2790.00	653.00	667.43	0.0	0.63	1062.74	1991.47	7932.15	0.0
10813.000	100.00	0.0	0.0	2790.00	653.00	667.92	0.0	0.69	1132.17	1739.57	6750.31	0.49
12140												
12140.000	1327.00	0.0	0.0	2770.00	655.10	667.44	0.0	2.10	1033.72	1501.72	2365.96	0.0
12140.000	1327.00	0.0	0.0	2770.00	655.10	667.93	0.0	2.40	1128.27	1366.48	1879.86	0.48
12240												
12240.000	100.00	0.0	0.0	2770.00	655.90	667.36	0.0	4.49	1252.80	1987.03	1431.71	0.0
12240.000	100.00	0.0	0.0	2770.00	655.90	667.74	0.0	5.49	1351.02	1587.35	834.27	0.38
12261												
12261.000	21.00	665.40	663.80	2770.00	655.90	667.36	0.0	4.48	1252.75	1987.17	1432.88	0.0
12261.000	21.00	999999.00	0.0	2770.00	655.90	667.74	0.0	5.49	1350.93	1587.73	835.05	0.38
12361												
12361.000	100.00	0.0	0.0	2770.00	655.90	667.57	0.0	2.41	1088.91	1489.52	2085.16	0.0
12361.000	100.00	0.0	0.0	2770.00	655.90	668.12	0.0	2.75	1132.07	1355.23	1642.16	0.56
12725												
12725.000	364.00	0.0	0.0	2770.00	656.00	667.64	0.0	3.48	1045.60	1561.70	1700.95	0.0
12725.000	364.00	0.0	0.0	2770.00	656.00	668.20	0.0	4.03	1109.45	1317.44	1219.51	0.56
13090												
13090.000	365.00	0.0	0.0	2760.00	657.40	667.74	0.0	3.09	1063.99	1350.00	1204.21	0.0
13090.000	365.00	0.0	0.0	2760.00	657.40	660.33	0.0	3.45	1100.00	13192.00	729.03	0.59

SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRIWS	VCH	SSTA	ENDST	AREA	DIFWSP
13600												
13290.000	200.00	0.0	0.0	2760.00	661.00	667.83	0.0	2.67	1217.23	1498.09	1204.22	0.0
13290.000	200.00	0.0	0.0	2760.00	661.00	668.50	0.0	2.59	1245.00	1400.00	1067.63	0.66
13650												
13340.000	50.00	0.0	0.0	2760.00	661.80	667.83	0.0	3.13	1223.04	1477.59	990.24	0.0
13340.000	50.00	0.0	0.0	2760.00	661.80	668.50	0.0	2.92	1245.00	1400.00	944.74	0.67
13750												
13440.000	100.00	684.50	0.0	2760.00	661.80	689.45	0.0	0.31	1087.21	1922.31	14026.16	0.0
13440.000	100.00	999999.00	0.0	2760.00	661.80	690.12	0.0	0.33	1113.83	1707.78	12702.11	0.67
13800												
13490.000	50.00	0.0	0.0	2760.00	662.60	689.45	0.0	0.33	1090.18	1916.75	13367.13	0.0
13490.000	50.00	0.0	0.0	2760.00	662.60	690.12	0.0	0.34	1115.86	1696.35	12064.00	0.67
13800												
18440.000	4950.00	0.0	0.0	2600.00	685.30	689.43	0.0	2.47	1086.04	1602.41	1649.06	0.0
18440.000	4950.00	0.0	0.0	2600.00	685.30	690.09	0.0	3.15	1225.97	1553.21	1288.31	0.65
21100												
* 20790.000	2350.00	0.0	0.0	2450.00	689.60	694.17	694.17	9.95	1089.74	1369.79	475.73	0.0
* 20790.000	2350.00	0.0	0.0	2450.00	689.60	694.96	694.96	10.78	1128.02	1294.18	398.61	0.79
22700												
23460.000	2670.00	0.0	0.0	2370.00	701.10	708.90	0.0	7.64	1129.49	151354.25	558.82	0.0
23460.000	2670.00	0.0	0.0	2370.00	701.10	709.77	0.0	8.61	1189.71	1262.96	365.05	0.88
25129												
24879.000	1419.00	0.0	0.0	2360.00	706.20	714.47	0.0	7.84	1176.21	1492.26	655.67	0.0
24879.000	1419.00	0.0	0.0	2360.00	706.20	715.41	0.0	7.85	1290.65	1435.76	534.26	0.94
25181												
* 24929.000	50.00	0.0	0.0	2360.00	706.50	714.51	714.51	14.91	1418.00	1441.00	158.25	0.0
* 24929.000	50.00	0.0	0.0	2360.00	706.50	714.50	714.50	14.93	1418.00	1441.00	158.05	-0.01
25211												
24951.000	22.00	717.40	715.50	2360.00	706.50	715.49	0.0	13.05	1418.00	1441.00	180.88	0.0
* 24951.000	22.00	999999.00	0.0	2360.00	706.50	715.48	0.0	13.06	1418.00	1441.00	180.64	-0.01
25261												
25001.000	50.00	0.0	0.0	2360.00	706.80	718.40	0.0	2.24	1125.80	1608.83	2030.60	0.0
25001.000	50.00	0.0	0.0	2360.00	706.80	718.22	0.0	6.52	1340.00	1440.00	588.52	-0.18
26200												
25915.000	914.00	0.0	0.0	2290.00	710.80	718.67	0.0	3.95	1178.17	1579.73	1189.89	0.0
25915.000	914.00	0.0	0.0	2290.00	710.80	719.50	0.0	4.49	1273.16	151461.71	874.09	0.83
27327												
* 27027.000	1112.00	0.0	0.0	2200.00	718.90	725.52	725.52	10.47	1223.86	1358.58	269.76	0.0
* 27027.000	1112.00	0.0	0.0	2200.00	718.90	724.82	724.82	12.82	1300.00	1334.00	171.55	-0.70
27387												
* 27077.000	50.00	0.0	0.0	2200.00	719.30	726.92	726.92	14.36	1392.00	1416.00	153.23	0.0
* 27077.000	50.00	0.0	0.0	2200.00	719.30	726.89	726.89	14.41	1392.00	1416.00	152.63	-0.02
27412												
27103.000	26.00	728.80	726.70	2200.00	719.30	727.91	0.0	12.45	1392.00	1416.00	176.74	0.0
27103.000	26.00	999999.00	0.0	2200.00	719.30	727.88	0.0	12.47	1392.00	1416.00	176.38	-0.02
27412												
27153.000	50.00	0.0	0.0	2200.00	719.50	730.50	0.0	3.20	1097.59	1407.58	1291.79	0.0
27153.000	50.00	0.0	0.0	2200.00	719.50	730.36	0.0	4.57	1250.00	1350.00	684.71	-0.14
29800												
* 29340.000	2187.00	0.0	0.0	2150.00	729.40	734.36	734.36	9.83	1188.69	1509.13	490.82	0.0
* 29340.000	2187.00	0.0	0.0	2150.00	729.40	735.38	735.38	11.26	1243.41	1371.63	342.58	1.02
31450												
30790.000	1450.00	0.0	0.0	2150.00	733.10	739.36	0.0	4.79	1166.19	1514.65	927.18	0.0
30790.000	1450.00	0.0	0.0	2150.00	733.10	740.15	0.0	4.61	1209.98	1455.68	895.95	0.79
32600												
* 32140.000	1350.00	0.0	0.0	2100.00	736.70	743.86	743.86	8.38	1143.41	14271422.39	454.51	0.0
* 32140.000	1350.00	0.0	0.0	2100.00	736.70	743.77	743.77	11.83	1222.29	1276.31	186.81	-0.09

	SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CMSEL	CRWS	VCH	SSTA	ENDST	AREA	DIFWSP
	34200												
	33740.000	1600.00	0.0	0.0	2100.00	741.55	742.48	0.0	5.94	1124.39	1424.52	674.80	0.0
	33740.000	1600.00	0.0	0.0	2100.00	741.55	750.49	0.0	5.19	1188.54	1378.27	680.11	1.01
	35600												
	35040.000	1300.00	0.0	0.0	1940.00	746.40	753.28	753.21	10.51	1235.55	1334.65	221.94	0.0
W X	35040.000	1300.00	0.0	0.0	1940.00	746.40	752.85	0.0	12.06	1250.00	1283.00	160.88	-0.42
	38100												
	37630.000	2590.00	0.0	0.0	1850.00	754.30	762.74	0.0	5.78	1190.97	1510.47	680.85	0.0
X Y	37630.000	2590.00	0.0	0.0	1850.00	754.30	763.65	0.0	6.07	1346.85	1449.18	486.44	0.91
										71	31		

SUMMARY OF ERRORS

CAUTION	SECNO= 110.000	PROFILE= 1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 135.000	PROFILE= 1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 135.000	PROFILE= 1	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 135.000	PROFILE= 1	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO= 135.000	PROFILE= 2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 135.000	PROFILE= 2	MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 355.000	PROFILE= 1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 355.000	PROFILE= 1	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 355.000	PROFILE= 1	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO= 3983.000	PROFILE= 1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 3983.000	PROFILE= 1	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 3983.000	PROFILE= 1	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO= 3983.000	PROFILE= 2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 3983.000	PROFILE= 2	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 3983.000	PROFILE= 2	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO= 4739.000	PROFILE= 2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 4739.000	PROFILE= 2	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 4739.000	PROFILE= 2	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO= 4961.000	PROFILE= 1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 4961.000	PROFILE= 1	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 4961.000	PROFILE= 1	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO= 4961.000	PROFILE= 2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 4961.000	PROFILE= 2	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 4961.000	PROFILE= 2	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=10687.000	PROFILE= 1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=10687.000	PROFILE= 1	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=10687.000	PROFILE= 1	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=10687.000	PROFILE= 2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=10687.000	PROFILE= 2	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=10687.000	PROFILE= 2	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=10713.000	PROFILE= 1	WSEL ASSUMED BASED ON MIN DIFF
CAUTION	SECNO=10713.000	PROFILE= 1	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=20790.000	PROFILE= 1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=20790.000	PROFILE= 1	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=20790.000	PROFILE= 1	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=20790.000	PROFILE= 2	CRITICAL DEPTH ASSUMED

CAUTION	SECNO=20790.000	PROFILE= 2	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=20790.000	PROFILE= 2	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=24929.000	PROFILE= 1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=24929.000	PROFILE= 1	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=24929.000	PROFILE= 1	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=24929.000	PROFILE= 2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=24929.000	PROFILE= 2	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=24929.000	PROFILE= 2	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=24951.000	PROFILE= 2	20 TRIALS OF EG NOT ENOUGH
CAUTION	SECNO=27027.000	PROFILE= 1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=27027.000	PROFILE= 1	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=27027.000	PROFILE= 1	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=27027.000	PROFILE= 2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=27027.000	PROFILE= 2	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=27027.000	PROFILE= 2	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=27077.000	PROFILE= 1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=27077.000	PROFILE= 1	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=27077.000	PROFILE= 1	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=27077.000	PROFILE= 2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=27077.000	PROFILE= 2	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=27077.000	PROFILE= 2	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=29340.000	PROFILE= 1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=29340.000	PROFILE= 1	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=29340.000	PROFILE= 1	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=29340.000	PROFILE= 2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=29340.000	PROFILE= 2	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=29340.000	PROFILE= 2	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=32140.000	PROFILE= 1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=32140.000	PROFILE= 1	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=32140.000	PROFILE= 1	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=32140.000	PROFILE= 2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=32140.000	PROFILE= 2	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=32140.000	PROFILE= 2	20 TRIALS ATTEMPTED TO BALANCE WSEL

NOTE:

X-SECT



SECT. INCLUDES LEONARD & TINKER CRK,
THE FLOODWAY AREA IS BASED ON AREAS FROM
BOTH CREEKS. WIDTHS ARE BASED ON BOTH STREAMS

FLOODWAY DATA, 100 YEAR FLOOD WATER SUR
PROFILE NO. 2

STATION	FLOODWAY		WATER SURFACE ELEVATION			
	WIDTH (FT)	SECTION AREA	MEAN VELOCITY	WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE
A110.000	93	44.7	10.6	638.1	638.1	1.0 "O" ENC.
135.000	34.	324.	14.7 10.6	639.1	640.7	-1.6
148.000	47.	301.	15.8	639.1	640.7	-1.6
165.000	62.	339.	14.0	639.6	641.0	-1.4
225.000	60.	519.	9.2	641.5	641.3	0.2
275.000	50.	397.	11.9	641.2	641.2	0.0
305.000	114.	1044.	4.5	643.9	642.7	1.2
B355.000	114.	1019.	4.6	643.7	642.7	1.0
C2300.000	92. 73	586.444	8.1 10.6 HV	643.1641.6	641.6	1.5 "O" ENC
D3983.000	300.	1988.	2.4	646.7	645.9	0.8
4083.000	178.687	615.939	7.6 5.0	648.4647.6	647.6	0.8 "O" ENC
4117.000	84.	611.	7.7	649.6	647.8	1.8
4132.000	76.	571.	8.2	649.1	648.1	1.0
4147.000	83.	606.	7.8	649.7	648.2	1.5
4181.000	82.	602.	7.8	649.7	648.2	1.5
E4281.000	79.	585.	8.0	649.5	648.5	1.0
F4739.000	392.	1388.	3.4	650.5	649.9	0.6
4839.000	141.313	592.804	7.9 5.8	651.3650.4	650.4	0.9 "O" ENC
4861.000	122.	827.	5.7	652.9	651.2	1.7
G4961.000	118.	746.	6.3	652.3	651.3	1.0
H6600.000	142.314	597.012	7.9 5.8	653.0652.1	652.1	0.9 "O" ENC
I8950.000	241.	1796.	2.2	656.7	655.7	1.0
J10587.000	377.	1737.	2.3	658.0	657.4	0.6
10687.000	374.	1913.	1.5	659.0	658.4	0.6
10713.000	22.	174.	16.0	662.1	662.1	0.0
K10813.000	137.	494.	5.5	666.9	666.9	0.0
L12140.000	107.	6750.	0.4	667.9	667.4	0.5
12240.000	238.	1880.	1.5	667.9	667.4	0.5
12261.000	236.	834.	3.3	667.8	667.4	0.4
12361.000	237.	835.	3.3	667.8	667.4	0.4
M12725.000	223.	1642.	1.7	668.2	667.6	0.6
N13090.000	208.	1220.	2.3	668.2	667.6	0.6
13290.000	92.	799.	3.5	668.3	667.7	0.6
13340.000	155.	1068.	2.6	668.5	667.8	0.7
13440.000	155.	945.	2.9	668.5	667.8	0.7
O13490.000	594.	12702.	0.2	690.1	689.4	0.7
P18400.000	580.	12064.	0.2	690.1	689.4	0.7
Q20798.000	327.	1288.	2.0	690.1	689.4	0.7
R23460.000	166.280	399.476	6.1 5.1	695.0694.2	694.2	0.8 "O" ENC
S24879.000	73.225	365.559	6.5 4.2	709.8708.9	708.9	0.9 "O" ENC
24929.000	145.	534.	4.4	715.4	714.5	0.9
24951.000	23.	158.	14.9	714.5	714.5	0.0
25001.000	23.	181.	13.1	715.5	715.5	0.0
T25215.000	100.	589.	4.0	718.3	718.4	-0.1
U27027.000	189.	874.	2.6	719.5	719.7	0.8
27077.000	34.135	172.270	12.8 8.2	724.9725.5	725.5	0.6 "O" ENC
27103.000	24.	153.	14.4	726.9	726.9	0.0
27153.000	24.	176.	12.5	727.9	727.9	0.0
V29340.000	100.	685.	3.2	730.5	730.5	0.0
30790.000	128.320	343.491	6.3 4.4	735.4734.4	734.4	1.0 "O" ENC
	246.	896.	2.4	740.2	739.4	0.8

SEE SUMMARY
FOR MORE DATA

FLOODWAY DATA, 100 YEAR FLOOD WATER SUR
 PROFILE NO. 2

STATION	FLOODWAY		MEAN VELOCITY	WATER SURFACE ELEVATION		
	WIDTH (FT)	SECTION AREA		WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE
32600 W 32140.000	347.71	187.955	11.2 HV 4.6	743.9	743.9	0.0 "O" ENC
33740.000	190.	680.	3.1	750.5	749.5	1.0
X 35040.000	33.99	161.222	12.1 HV 8.7	753.0	753.3	-0.3 "O" ENC
37630.000	102.	486.	3.8	763.6	762.7	0.9

I-14 LEONARD CRK
FLOODWAY
~~2 AA AS~~ Z - A H

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N 8.15.59 JOB 799 -- RMKI14 -- JCL INTERPRETED, TUCS CPU #1
N 8.16.01 JOB 799 -- RMKI14 -- BEGINNING EXEC - INIT 2 - CLASS
L* 8.16.01 JOB 799 ++++S=255,T=02,J=RMKI14 8:16:01 KEZIAH
N 8.16.11 JOB 799 END EXECUTION.

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	38310	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	32780.000	16.000	1406.000	1428.000	50.000	50.000	50.000	0.0	0.200	0.0
GR	773.900	1000.000	764.200	1100.000	762.600	1200.000	760.900	1300.000	760.300	1385.000
GR	758.900	1400.000	758.700	1406.000	755.100	1409.000	754.300	1418.000	754.900	1424.000
GR	759.400	1428.000	758.900	1432.000	762.200	1500.000	767.400	1600.000	770.300	1700.000
GR	773.800	1795.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
QT	5.000	620.000	1125.000	1450.000	2150.000	1450.000	0.0	0.0	0.0	0.0

	39810	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	39250.000	16.000	1450.000	1464.000	1500.000	1500.000	1500.000	0.0	0.0	0.0
GR	780.400	1000.000	769.000	1085.000	769.000	1100.000	767.600	1200.000	764.300	1300.000
GR	764.000	1400.000	764.800	1450.000	760.400	1454.000	760.000	1457.000	760.600	1459.000
GR	765.400	1464.000	764.700	1500.000	764.600	1533.000	771.800	1600.000	774.000	1700.000
GR	774.300	1800.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
QT	5.000	590.000	1100.000	1350.000	2025.000	1350.000	0.0	0.0	0.0	0.0

	40738	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	40178.000	13.000	1288.000	1325.000	928.000	928.000	928.000	0.0	0.0	0.0
GR	784.400	1000.000	775.800	1100.000	769.100	1200.000	769.400	1288.000	766.000	1291.000
GR	762.800	1312.000	766.200	1322.000	771.100	1325.000	769.500	1400.000	770.400	1470.000
GR	771.300	1500.000	782.100	1600.000	786.100	1655.000	0.0	0.0	0.0	0.0
NC	0.060	0.060	0.040	0.100	0.300	0.0	0.0	0.0	0.0	0.0

	40788	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	40228.000	19.000	1468.000	1486.000	50.000	50.000	50.000	0.0	0.0	0.0
GR	790.200	1000.000	784.900	1100.000	780.400	1200.000	776.700	1400.000	774.300	1400.000
GR	774.800	1468.000	766.500	1468.000	766.200	1469.000	765.900	1470.000	765.500	1477.000
GR	766.100	1479.000	768.000	1482.000	769.000	1486.000	774.800	1486.000	774.700	1500.000
GR	774.900	1600.000	779.000	1700.000	785.600	1800.000	790.300	1867.000	0.0	0.0
SB	0.900	1.500	2.500	0.0	18.000	0.010	117.000	0.0	0.0	0.0

RDN0 NCSR 1815 MXLCEL 773.1 RDELV 774.8

	40812	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	40252.000	0.0	0.0	0.0	24.000	24.000	24.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	773.100	774.300	0.0	0.0	0.0	0.0	0.0
BT	12.000	1000.000	790.200	0.0	1100.000	784.900	0.0	1200.000	780.400	0.0
BT	1300.000	776.700	0.0	1400.000	774.300	0.0	1469.000	774.800	773.100	1486.000
BT	774.800	773.100	1500.000	774.700	0.0	1600.000	774.900	0.0	1700.000	779.000
BT	0.0	1800.000	785.600	0.0	1867.000	790.300	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

	40862	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	40302.000	13.000	1288.000	1325.000	50.000	50.000	50.000	0.0	5.400	0.0
GR	784.400	1000.000	775.800	1100.000	769.100	1200.000	769.400	1288.000	766.000	1291.000
GR	762.800	1312.000	766.200	1322.000	771.100	1325.000	769.500	1400.000	770.400	1470.000
GR	771.300	1500.000	782.100	1600.000	786.100	1655.000	0.0	0.0	0.0	0.0

	41825	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	41265.000	13.12	0.0	0.0	963.000	963.000	963.000	0.0	4.400	0.0
QT	5.000	580.000	1080.000	1325.000	2000.000	1325.000	0.0	0.0	0.0	0.0

	42775	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	42215.000	12.000	1235.000	1243.000	950.000	950.000	950.000	0.0	0.0	0.0
GR	793.400	1000.000	788.700	1100.000	779.200	1186.000	778.300	1200.000	778.100	1235.000
GR	777.900	1236.000	777.400	1238.000	778.300	1242.000	778.700	1243.000	778.200	1300.000
ER	778.000	1400.000	792.600	1465.000	0.0	0.0	0.0	0.0	0.0	0.0

	43810	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	43250.000	0.0	1238	0.0	1035.000	1035.000	1035.000	0.0	2.900	0.0
QT	5.000	520.000	960.000	1210.000	1820.000	1210.000	0.0	0.0	0.0	0.0

	44810	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	44250.000	13.000	1278.000	1292.000	1000.000	1000.000	1000.000	0.0	0.0	0.0

[illegible]

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

T1 DAVIDSON COUNTY BASIN I STRM 14 LEONARD CREEK
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918
 T3 100 YEAR FLOODWAY

J1	ICHECK	INQ	NIN	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-10.	6.	0.	0.	0.0	0.0	0.0	0.	763.510	0.0

J2	NPROF	IPLT	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 2

CCHV= 0.100 CEHV= 0.300

*SECNO 37630.000

2800 NAT Q1= 460.66 WSEL= 762.74 ENC Q1= 460.66 WSEL= 763.74 RATIO= 0.0

NAT Q1= 747. RATIOS LOB,CH,ROB= 0.4201 0.3848 0.1952 WSEL= 763.74

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

3470 ENCROACHMENT STATIONS=									
37630.00	9.21	763.51	0.0	762.74	763.99	0.48	0.0	0.0	758.70
1850.	459.	1185.	206.	172.	178.	76.	0.	0.	759.40
0.0	2.67	6.65	2.71	0.055	0.035	0.055	0.0	754.30	1357.75
0.001867	2590.	2590.	2590.	0	0	0	0.0	87.94	1445.69

CCHV= 0.100 CEHV= 0.300

*SECNO 37680.000

IHC209I IBCOM - PROGRAM INTERRUPT (P) - DIVIDE CHECK OLD FSW IS FFC5000F4211AC92 . REGISTER CONTAINED 0000000000000000

TRACEBACK ROUTINE CALLED FROM ISN REG. 14 REG. 15 REG. 0 REG. 1

H2MAIN 0005 5210FF3A 0010FF78 FD000008 00000000

MAIN 000159B2 0110FE10 FD000008 0018BFF8

ENTRY POINT= 0110FE10

STANDARD FIXUP TAKEN , EXECUTION CONTINUING

2800 NAT Q1= 144.23 WSEL= 761.59 ENC Q1= 187.18 WSEL= 762.59 RATIO= -0.2978

NAT Q1= 187. RATIOS LOB,CH,ROB= 0.0 1.0000 0.0 WSEL= 762.59

3301 HV CHANGED MORE THAN HVINS

 HEC2 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 FLOOD WATER SUR

SUMMARY PRINTOUT

	SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRWS	VCH	SSTA	ENDST	AREA	DIFWSP
	38190												
	37630.000	2590.00	0.0	0.0	1850.00	754.30	762.74	0.0	5.79	1191.23	1510.39	679.53	0.0
	37630.000	2590.00	0.0	0.0	1850.00	754.30	763.51	0.0	6.65	1357.75/48	1445.69	425.80	0.77
	38240												
	37680.000	50.00	0.0	0.0	1850.00	754.40	761.59	0.0	11.69	1404.00	1434.00	155.61	0.0
	37680.000	50.00	0.0	0.0	1850.00	754.40	763.05	0.0	9.23	1404.00	1434.00	200.54	1.50
	38260												
	37700.000	20.00	764.10	762.50	1850.00	754.40	762.62	0.0	9.93	1404.00	1434.00	186.36	0.0
	37700.000	20.00	999999.00	0.0	1850.00	754.40	764.11	0.0	8.00	1404.00	1434.00	231.30	1.50
	38310												
	37750.000	50.00	0.0	0.0	1850.00	754.50	764.27	0.0	3.45	1107.97	1536.01	1177.22	0.0
	37750.000	50.00	0.0	0.0	1850.00	754.50	765.13	0.0	3.81	1308.51	1462.66	846.16	0.86
	38100												
Y *	39250.000	1500.00	0.0	0.0	1450.00	760.00	765.67	765.67	8.94	1233.43/45	1542.97	358.50	0.0
* -	39250.000	1500.00	0.0	0.0	1450.00	760.00	766.65	766.65	10.67	1396.69	1493.05	231.96	0.98
	40730												
Z	40170.000	928.00	0.0	0.0	1350.00	762.80	770.23	0.0	6.22	1183.14	1456.74	321.16	0.0
	40170.000	928.00	0.0	0.0	1350.00	762.80	771.19	0.0	5.93	1288.00/312	1325.00	227.52	0.96
	40780												
*	40220.000	50.00	0.0	0.0	1350.00	765.50	772.17	772.17	13.49	1468.00	1486.00	100.09	0.0
*	40220.000	50.00	0.0	0.0	1350.00	765.50	772.17	772.17	13.49	1468.00	1486.00	100.04	-0.00
	40810												
	40252.000	24.00	774.30	773.10	1350.00	765.50	772.33	0.0	13.11	1468.00	1486.00	102.98	0.0
	40252.000	24.00	999999.00	0.0	1350.00	765.50	772.33	0.0	13.13	1468.00	1486.00	102.85	-0.00
	40860												
AR	40302.000	50.00	0.0	0.0	1350.00	768.20	774.50	0.0	8.92	1288.27/312	1323.77	151.43	0.0
	40302.000	50.00	0.0	0.0	1350.00	768.20	774.50	0.0	8.90	1288.26	1323.78	151.62	0.01
	41805												
AA	41265.000	963.00	0.0	0.0	1350.00	772.60	779.79	778.11	6.81	1186.68/312	1438.28	270.01	0.0
	41265.000	963.00	0.0	0.0	1350.00	772.60	779.93	0.0	7.17	1288.00	1324.40	188.40	0.14
	42775												
AB	42215.000	950.00	0.0	0.0	1325.00	777.40	781.75	0.0	2.69	1162.88	1416.71	811.77	0.0
	42215.000	950.00	0.0	0.0	1325.00	777.40	782.33	0.0	3.43	1199.11/238	1352.19	622.06	0.58
	43810												
AC	43250.000	1035.00	0.0	0.0	1325.00	780.30	783.17	0.0	4.99	1176.43	1410.05	447.14	0.0
	43250.000	1035.00	0.0	0.0	1325.00	780.30	784.08	0.0	6.53	1210.82/238	1326.41	334.64	0.91
	44810												
AD	44250.000	1000.00	0.0	0.0	1210.00	783.20	788.24	787.90	7.68	1136.55	1310.23	307.52	0.0
	44250.000	1000.00	0.0	0.0	1210.00	783.20	789.26	0.0	8.84	1233.58/28	1300.86	216.22	1.02

	SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRIWS	VCH	SSTA	ENDST	AREA	DIFWSP
AE	41600 45840.000	1590.00	0.0	0.0	1210.00	789.90	795.39	0.0	5.95	1130.92	1352.15	403.24	0.0
	45840.000	1590.00	0.0	0.0	1210.00	789.90	796.42	0.0	6.71	1221.82	12851310.41	299.85	1.03
AF	47700 47240.000	1400.00	0.0	0.0	979.00	796.30	800.27	0.0	4.98	1138.03	1382.20	390.75	0.0
	47240.000	1400.00	0.0	0.0	979.00	796.30	801.27	0.0	6.00	1209.87	12551311.30	281.08	1.00

45 56

SUMMARY OF ERRORS

CAUTION	SECNO=39250.000	PROFILE= 1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=39250.000	PROFILE= 1	MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=39250.000	PROFILE= 2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=39250.000	PROFILE= 2	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=39250.000	PROFILE= 2	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=40228.000	PROFILE= 1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=40228.000	PROFILE= 1	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=40228.000	PROFILE= 1	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=40228.000	PROFILE= 2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=40228.000	PROFILE= 2	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=40228.000	PROFILE= 2	20 TRIALS ATTEMPTED TO BALANCE WSEL

FLOODWAY DATA, 100 YEAR FLOOD WATER SUR
PROFILE NO. 2

STATION	FLOODWAY		MEAN VELOCITY	WATER SURFACE ELEVATION		DIFFERENCE
	WIDTH (FT)	SECTION AREA		WITH FLOODWAY	WITHOUT FLOODWAY	
35190 Y 37630.000	88.	426.	4.3	763.5	762.7	0.8
37680.000	30.	201.	9.2	763.1	761.6	1.5
37700.000	30.	231.	8.0	764.1	762.6	1.5
37750.000	154.	846.	2.2	765.2	764.3	0.9
Z 39250.000	96.286	232.359	6.340	765.776	765.7	1.0 0.0
AA 40178.000	37.	228.	5.9	771.2	770.2	1.0
40228.000	13.	100.	13.5	772.2	772.2	0.0
40252.000	18.	103.	13.1	772.3	772.3	0.0
40302.000	36.	152.151	8.9 HV	774.5	774.5	0.0 O'ENC
AB 41265.000	36.252	188.270	7.2 HV 5.0	779.98	779.8	0.1 O'ENC
AC 42715.000	153.	622.	2.1	782.3	781.7	0.6
AD 43250.000	116.	335.	4.0	784.1	783.2	0.9
AE 44250.000	67.	216.	5.6	789.2	788.2	1.0
AE 45840.000	89.	300.	4.0	796.4	795.4	1.0
AF 47240.000	101.	281.	3.5	801.3	800.3	1.0