

3 Oct 78

DLP

ALD

HEC2 RELEASE DATE: NOV 74. UPDATED: AUG 77

ERROR COR  
MODIFICAT

# RHODES CREEK

~~EK~~

VED

1979

D-MOORE

G  
T1 ORANGE C  
T2 RHODES C  
T3 10YR NJ

J1 ICHECK  
0.

J2 NPROF  
1.00

J3 VARIAB  
58.00

14.00  
22.00

NC 0.  
QT 5.  
ET 0.

X1 41330  
GR 410  
GR 574  
GR 380  
QT 5  
NC 0  
ET 0

X1 90  
GR 402  
GR 381  
GR 382  
ET 6.000

X1	150.000	0.000	0.000	0.000	60.000	60.000	60.000	0.000	1.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	996.300	1057.700	0.000	0.000

X1	200.000	0.000	0.000	0.000	50.000	50.000	50.000	0.000	0.800	0.000
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PRINTED IN U.S.A.

3 Oct 78

JLP

050

RHODES CREEK

HEC2 RELEASE DATED NOV 76 UPDATED AUG 77  
ERROR CORR - 01,02  
MODIFICATION - 50,51,52,53

RECEIVED

JAN 09 1979

DAMES AND MOORE

C  
T1 ORANGE COUNTY FIA STUDY  
T2 RHODES CREEK  
T3 10YR NATURAL PROFILE JUL 78 CWF

J1 ICHECK INQ MINV IDIR ST-T METRIC HVINS U WSEI FU  
0. 2. 0. 0. 0.000000 0.00 0.0 0. 381.600 0.000

J2 NPROF IPLDI HREVS XSECV XSLC: EN ALLDC LBW CHNIM LTRACC  
1.000 0.000 -1.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000

J3 VARIABLE CODES FOR SUMMARY PRINTOUT  
58.000 1.000 3.000 42.000 41.000 10.000 0.000 58.000 1.000 13.000

14.000 15.000 55.000 26.000 57.000 0.000 58.000 1.000 55.000 21.000

22.000 54.000 4.000 0.000 150.000 201.000 0.000 0.000 0.000 0.000

NC 0.100 0.100 0.050 0.100 0.300 0.000 0.000 0.000 0.000 0.000  
NT 5.000 4700.000 5200.000 5340.000 6050.000 5340.000 0.000 0.000 0.000 0.000  
ET 0.000 0.000 0.000 0.000 0.000 0.000 10.400 0.000 0.000 0.000

END RIVER VALLEY SECTION

X1 41330.000 14.000 1000.000 1088.000 0.000 0.000 0.000 0.000 0.000 0.000  
GR 410.000 770.000 400.000 840.000 390.000 925.000 581.000 970.000 380.500 1000.000  
BR 574.000 1005.000 572.500 1015.000 371.900 1044.000 572.500 1075.000 574.000 1085.000  
GR 380.500 1088.000 581.000 1140.000 390.000 1170.000 410.000 1190.000 0.000 0.000  
QT 5.000 920.000 1416.000 1536.000 2258.000 1536.000 0.000 0.000 0.000 0.000  
NC 0.110 0.110 0.055 0.000 0.000 0.000 0.000 0.000 0.000 0.000  
ET 0.000 0.000 0.000 0.000 0.000 0.000 7.100 996.800 1055.400 0.000

URH-1 VALLEY

X1 90.000 13.000 1000.000 1022.000 376.000 370.000 370.000 0.000 0.000 0.000  
GR 403.200 677.000 395.100 777.000 394.700 877.000 594.400 977.000 594.400 987.000  
GR 381.800 1000.000 579.200 1003.000 578.800 1011.000 380.000 1019.000 382.000 1022.000  
GR 383.700 1049.000 589.100 1077.000 401.400 1116.000 0.000 0.000 0.000 0.000  
ET 0.000 0.000 0.000 0.000 0.000 0.000 7.100 996.200 1058.300 0.000

X1 130.000 0.000 0.000 0.000 60.000 60.000 60.000 0.000 1.000 0.000  
ET 0.000 0.000 0.000 0.000 0.000 0.000 7.100 996.300 1057.700 0.000

X1 200.000 0.000 0.000 0.000 50.000 50.000 50.000 0.000 0.800 0.000  
NC 0.120 0.120 0.060 0.000 0.000 0.000 0.000 0.000 0.000 0.000

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0.000 0.000 0.000 0.000 0.000 0.000 7.100 995.300 1051.500 0.000 0.000

X1	250.000	10.000	1000.000	1024.000	50.000	50.000	50.000	0.000	0.000	0.000
GR	404.500	695.000	396.800	790.000	396.500	987.000	383.700	1000.000	381.700	1003.000
GR	381.400	1011.000	382.100	1021.000	384.000	1024.000	384.500	1040.000	403.000	1095.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	995.600	1050.400	0.000	0.000

X1	300.000	0.000	0.000	0.000	50.000	50.000	50.000	0.000	0.800	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	996.500	1036.900	0.000	0.000

ORH-2 VALLEY

X1	550.000	11.000	1000.000	1026.000	50.000	50.000	50.000	0.000	0.000	0.000
GR	406.000	700.000	398.000	800.000	397.800	980.000	397.800	990.000	384.600	1000.000
GR	383.300	1003.000	383.000	1013.000	383.400	1023.000	385.400	1025.000	404.500	1080.000
GR	406.300	1084.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	985.000	1110.000	0.000	0.000

ORH-3 VALLEY

X1	1640.000	13.000	1000.000	1022.000	1290.000	1290.000	1290.000	0.000	0.000	0.000
GR	416.600	875.000	412.800	936.000	397.500	978.000	396.900	1000.000	394.100	1002.000
GR	393.800	1011.000	393.900	1020.000	395.800	1022.000	397.700	1075.000	396.000	1175.000
GR	398.000	1235.000	406.400	1275.000	416.400	1313.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	905.000	1035.000	0.000	0.000

ORH-4 VALLEY

X1	2000.000	14.000	1000.000	1018.000	360.000	360.000	360.000	0.000	0.000	0.000
GR	421.300	698.000	405.200	785.000	404.300	798.000	398.600	898.000	398.800	935.000
GR	398.600	940.000	398.300	1000.000	396.900	1003.000	396.900	1009.000	397.000	1015.000
GR	399.200	1018.000	400.000	1062.000	407.500	1098.000	420.600	1155.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	910.000	1035.000	0.000	0.000

X1	2200.000	0.000	0.000	0.000	200.000	200.000	200.000	0.000	1.100	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	945.000	1035.000	0.000	0.000

X1	2400.000	8.000	1000.000	1017.000	200.000	200.000	200.000	0.000	0.000	0.000
GR	423.500	710.000	402.000	937.000	402.000	1000.000	399.200	1002.000	399.200	1012.000
GR	402.000	1017.000	403.500	1080.000	422.500	1180.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	955.000	1045.000	0.000	0.000

ORH-5 VALLEY

X1	4110.000	19.000	1000.000	1012.000	1710.000	1710.000	1710.000	0.000	0.000	0.000
GR	433.700	671.000	417.200	971.000	412.800	1000.000	403.800	1002.000	403.800	1003.000
GR	409.100	1014.000	412.000	1016.000	414.100	1071.000	428.100	1171.000	352.500	1204.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	985.000	1065.000	0.000	0.000

X1	4350.000	0.000	0.000	0.000	240.000	240.000	240.000	0.000	0.000	0.000
NC	0.000	0.000	0.000	0.400	0.600	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	999.000	1035.000	0.000	0.000

50

X1	4450.000	12.000	1000.000	1036.000	100.000	100.000	100.000	0.000	0.000	0.000
GR	441.000	724.000	436.300	824.000	423.800	924.000	420.500	999.000	421.500	1000.000

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GR	422,300	1,124,000	437,800	1,198,000	0,000	0,000	0,000	0,000	0,000	0,000
ET	0,000	0,000	0,000	0,000	0,000	7,100	999,000	1,035,000	0,000	0,000

DRH-6 DAM

X1	4470,000	0,000	0,000	0,000	20,000	20,000	20,000	0,000	0,000	0,000
ET	0,000	0,000	0,000	0,000	0,000	7,100	985,000	1,075,000	0,000	0,000

X1	4550,000	10,000	1,000,000	1,016,000	80,000	80,000	80,000	0,000	1,100	0,000
GR	433,700	871,000	417,200	971,000	412,400	1,000,000	408,800	1,002,000	408,800	1,008,000
GR	409,100	1,014,000	412,000	1,016,000	414,100	1,071,000	428,100	1,171,000	432,300	1,204,000
NC	0,000	0,000	0,000	0,100	0,300	0,000	0,000	0,000	0,000	0,000
ET	0,000	0,000	0,000	0,000	0,000	7,100	985,000	1,075,000	0,000	0,000

X1	4700,000	0,000	0,000	0,000	150,000	150,000	150,000	0,000	0,400	0,000
NC	0,000	0,000	0,000	0,500	0,700	0,000	0,000	0,000	0,000	0,000
ET	0,000	0,000	0,000	0,000	0,000	50,200	0,000	0,000	0,000	0,000

X1	4800,000	11,000	1,000,000	1,021,000	100,000	100,000	100,000	0,000	-4,300	0,000
X3	10,000	0,000	0,000	0,000	0,000	0,000	0,000	428,000	428,000	0,000
GR	444,300	800,000	440,100	840,000	426,800	940,000	417,400	1,000,000	415,100	1,000,100
GR	415,100	1,020,900	417,900	1,021,000	419,000	1,040,000	427,200	1,140,000	437,400	1,240,000
GR	438,900	1,281,000	444,300	1,400,000	0,000	0,000	0,000	0,000	0,000	0,000
SB	1,050	1,970	2,800	0,000	21,000	1,000	160,000	0,000	412,100	410,800

DRH-7 & DRH-8 US70W & 1-45 CULVERT

X1	5200,000	0,000	0,000	0,000	400,000	400,000	400,000	0,000	1,500	0,000
X2	0,000	0,000	1,000	410,100	436,500	0,000	0,000	0,000	0,000	0,000
X3	10,000	0,000	0,000	0,000	0,000	0,000	0,000	436,500	436,500	0,000
BI	9,000	758,000	440,100	0,000	438,000	438,400	0,000	438,000	436,800	0,000
BI	1,010,000	436,500	0,000	1,058,000	436,500	0,000	1,158,000	436,900	0,000	1,258,000
BI	438,100	0,000	1,358,000	439,200	0,000	1,458,000	440,000	0,000	0,000	0,000
ET	0,000	0,000	0,000	0,000	0,000	7,100	985,000	1,060,000	0,000	0,000

X1	5500,000	12,000	1,000,000	1,020,000	100,000	100,000	100,000	0,000	-1,900	0,000
GR	440,100	840,000	426,800	940,000	417,400	1,000,000	415,200	1,000,000	415,100	1,009,000
GR	415,300	1,012,000	417,900	1,020,000	419,000	1,040,000	427,200	1,140,000	437,400	1,240,000
GR	438,900	1,281,000	444,300	1,400,000	0,000	0,000	0,000	0,000	0,000	0,000
NC	0,000	0,000	0,000	0,100	0,300	0,000	0,000	0,000	0,300	0,000
ET	0,000	0,000	0,000	0,000	0,000	7,100	985,000	1,060,000	0,000	0,000

DRH-9 VALLEY

X1	5400,000	0,000	0,000	0,000	150,000	150,000	150,000	0,000	1,900	0,000
ET	0,000	0,000	0,000	0,000	0,000	7,100	985,000	1,060,000	0,000	0,000

X1	5580,000	0,000	0,000	0,000	100,000	100,000	100,000	0,000	0,200	0,000
NC	0,000	0,000	0,000	0,500	0,700	0,000	0,000	0,000	0,000	0,000
ET	0,000	0,000	0,000	0,000	0,000	50,200	0,000	0,000	0,000	0,000

X1	5696,000	19,000	1,000,000	1,021,000	116,000	116,000	116,000	0,000	0,000	0,000
X3	10,000	0,000	0,000	0,000	0,000	0,000	0,000	431,000	431,000	0,000
GR	440,300	822,000	434,900	822,000	430,900	722,000	427,600	822,000	420,900	871,000
GR	420,400	922,000	420,000	943,000	418,800	1,000,000	415,500	1,000,100	415,500	1,020,900
GR	419,400	1,021,000	420,200	1,062,000	421,900	1,109,000	425,400	1,122,000	436,400	1,222,000

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GR 440.300 1522.000 438.600 1022.000 440.300 1522.000 440.300 1522.000 440.300 1522.000 440.300  
 SB 1.050 1.340 2.800 0.000 21.000 161.000 0.000 415.700 415.300

ORH-10 US70E

X1	5784.000	0.000	0.000	0.000	88.000	88.000	88.000	0.000	0.400	0.000
X2	0.000	0.000	1.000	423.700	438.600	0.000	0.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	438.600	458.600	0.000
BT	9.000	507.000	441.000	0.000	623.000	439.600	0.000	726.000	439.000	0.000
BT	826.000	438.700	0.000	1010.000	438.600	0.000	1126.000	438.800	0.000	1226.000
BT	439.600	0.000	1326.000	440.100	0.000	1526.000	441.300	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	880.000	1085.000	0.000	0.000

X1	5820.000	19.000	1000.000	1022.000	36.000	36.000	36.000	0.000	0.000	0.000
X5	4.000	0.000	425.900	426.800	433.700	427.800	0.000	0.000	0.000	0.000
GR	440.300	522.000	434.900	622.000	430.900	722.000	427.600	822.000	420.900	871.000
GR	420.400	922.000	420.000	943.000	418.800	1000.000	416.100	1003.000	416.100	1007.000
GR	419.400	1022.000	420.200	1062.000	421.900	1109.000	425.400	1122.000	436.400	1222.000
GR	438.100	1322.000	438.600	1422.000	440.300	1522.000	441.100	1531.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	880.000	1085.000	0.000	0.000

X1	5860.000	22.000	1000.000	1020.000	40.000	40.000	40.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	424.200	424.200	0.000
GR	440.300	522.000	434.900	622.000	430.900	722.000	427.600	822.000	420.900	871.000
GR	420.400	922.000	420.000	943.000	418.800	1000.000	417.600	1000.100	416.300	1005.000
GR	416.100	1010.000	416.300	1015.000	417.100	1019.900	419.400	1020.000	420.200	1062.000
GR	421.900	1109.000	425.400	1122.000	436.400	1222.000	438.100	1322.000	438.600	1422.000
GR	440.300	1522.000	441.100	1531.000	0.000	0.000	0.000	0.000	0.000	0.000
SB	0.000	1.600	2.800	0.000	17.500	0.100	133.000	0.250	416.200	416.100
ET	0.000	0.000	0.000	0.000	0.000	7.100	880.000	1085.000	0.000	0.000

ORH-11 SR 1812

X1	5880.000	0.000	0.000	0.000	20.000	20.000	20.000	0.000	0.100	0.000
X2	0.000	0.000	1.000	423.500	425.000	0.000	0.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	425.000	425.000	0.000
BT	13.000	507.000	441.000	0.000	622.000	434.900	0.000	722.000	430.900	0.000
BT	822.000	427.600	0.000	900.000	425.200	0.000	1000.000	425.000	0.000	1020.000
BT	425.000	0.000	1100.000	427.100	0.000	1190.000	433.000	0.000	1222.000	436.400
BT	0.000	1322.000	438.100	0.000	1422.000	438.600	0.000	1522.000	440.300	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	880.000	1085.000	0.000	0.000

ORH-12 VALLEY

X1	5970.000	19.000	1000.000	1022.000	90.000	90.000	90.000	0.000	0.000	0.000
GR	441.000	507.000	434.900	622.000	430.900	722.000	427.600	822.000	420.900	871.000
GR	420.400	922.000	420.000	943.000	418.800	1000.000	416.100	1003.000	416.100	1007.000
GR	419.400	1022.000	420.200	1062.000	421.900	1109.000	425.400	1122.000	436.400	1222.000
GR	438.100	1322.000	438.600	1422.000	440.300	1522.000	441.100	1531.000	0.000	0.000
NC	0.000	0.000	0.000	0.100	0.300	0.000	0.000	0.000	0.000	0.000
QT	5.000	534.000	980.000	1098.000	1489.000	1098.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	825.000	1069.000	0.000	0.000

X1	5970.000	12.000	1000.000	1015.000	1000.000	1000.000	1000.000	0.000	0.000	0.000
GR	450.000	520.000	440.000	590.000	430.000	700.000	425.000	750.000	423.000	1000.000
GR	420.000	1003.000	420.000	1012.000	423.000	1015.000	425.000	1130.000	430.000	1220.000
GR	440.000	1400.000	450.000	1700.000	0.000	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	900.000	1039.000	0.000	0.000



GR 1,050 1,340 2,800 0.00 21,000 1,000 150,000 0.00 415,700 415,300  
 SB 1,050 1,340 2,800 0.00 21,000 1,000 150,000 0.00 415,700 415,300

ORH-10 US70E

X1	5784.000	0.000	0.000	0.000	88.000	88.000	88.000	0.000	0.400	0.000
X2	0.000	0.000	1.000	423.700	438.600	0.000	0.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	438.600	438.600	0.000
BT	9.000	507.000	441.000	0.000	626.000	439.600	0.000	726.000	439.000	0.000
BT	826.000	438.700	0.000	1010.000	438.600	0.000	1126.000	438.800	0.000	1226.000
BT	439.600	0.000	1326.000	440.100	0.000	1526.000	441.300	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	880.000	1085.000	0.000	0.000

X1	5820.000	19.000	1000.000	1022.000	36.000	36.000	36.000	0.000	0.000	0.000
X5	4.000	0.000	425.900	426.800	433.700	42.800	0.000	0.000	0.000	0.000
GR	440.300	522.000	434.900	622.000	430.900	722.000	427.600	822.000	420.900	871.000
GR	420.400	922.000	420.000	943.000	418.800	1000.000	416.100	1003.000	416.100	1007.000
GR	419.400	1022.000	420.200	1062.000	421.900	1109.000	425.400	1122.000	436.400	1222.000
GR	438.100	1322.000	438.600	1422.000	440.300	1522.000	441.100	1531.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	880.000	1085.000	0.000	0.000

X1	5860.000	22.000	1000.000	1020.000	40.000	40.000	40.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	424.200	424.200	0.000
GR	440.300	522.000	434.900	622.000	430.900	722.000	427.600	822.000	420.900	871.000
GR	420.400	922.000	420.000	943.000	418.800	1000.000	417.500	1000.100	416.300	1005.000
GR	416.100	1010.000	416.300	1015.000	417.100	1019.900	419.400	1020.000	420.200	1002.000
GR	421.900	1109.000	425.400	1122.000	436.400	1222.000	438.100	1322.000	438.600	1422.000
GR	440.300	1522.000	441.100	1531.000	0.000	0.000	0.000	0.000	0.000	0.000
SB	0.000	1.600	2.800	0.000	17.300	0.100	133.000	0.250	416.200	416.100
ET	0.000	0.000	0.000	0.000	0.000	7.100	880.000	1085.000	0.000	0.000

ORH-11 SR 1812

X1	5880.000	0.000	0.000	0.000	20.000	20.000	20.000	0.000	0.100	0.000
X2	0.000	0.000	1.000	423.500	425.000	0.000	0.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	425.000	425.000	0.000
BT	13.000	507.000	441.000	0.000	622.000	434.900	0.000	722.000	430.900	0.000
BT	822.000	427.600	0.000	900.000	425.200	0.000	1000.000	425.000	0.000	1020.000
BT	425.000	0.000	1100.000	427.100	0.000	1190.000	453.000	0.000	1222.000	436.400
BT	7.000	1322.000	438.100	0.000	1422.000	438.600	0.000	1522.000	440.300	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	880.000	1085.000	0.000	0.000

ORH-12 VALLEY

X1	5970.000	19.000	1000.000	1022.000	90.000	90.000	90.000	0.000	0.000	0.000
GR	441.000	507.000	434.900	622.000	430.900	722.000	427.600	822.000	420.900	871.000
GR	420.400	922.000	420.000	943.000	418.800	1000.000	416.100	1003.000	416.100	1007.000
GR	419.400	1022.000	420.200	1062.000	421.900	1109.000	425.400	1122.000	436.400	1222.000
GR	438.100	1322.000	438.600	1422.000	440.300	1522.000	441.100	1531.000	0.000	0.000
NC	0.000	0.000	0.000	0.100	0.300	0.000	0.000	0.000	0.000	0.000
QT	5.000	534.000	980.000	1098.000	1439.000	1098.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	7.100	7.100	825.000	1069.000	0.000	0.000

X1	6970.000	12.000	1000.000	1015.000	1000.000	1000.000	1000.000	0.000	0.000	0.000
GR	450.000	320.000	440.000	590.000	450.000	700.000	425.000	750.000	423.000	1000.000
GR	420.000	1003.000	420.000	1012.000	423.000	1015.000	425.000	1130.000	430.000	1220.000
GR	440.000	1400.000	450.000	1700.000	0.000	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	900.000	1039.000	0.000	0.000

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GR	420.000	720.000	420.000	820.000	425.000	870.000	425.000	1000.000	420.000	1003.000
GR	420.700	1012.000	423.700	1015.000	425.000	1070.000	430.000	1110.000	440.000	1190.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	950.000	1050.000	0.000	0.000

X1	7930.000	11.000	1000.000	1015.000	560.000	560.000	560.000	0.000	0.000	0.000
GR	450.000	470.000	440.000	830.000	430.000	960.000	426.600	1000.000	423.600	1003.000
GR	423.600	1012.000	426.600	1015.000	427.000	1080.000	430.000	1100.000	440.000	1200.000
GR	450.000	1360.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	950.000	1070.000	0.000	0.000

X1	8900.000	15.000	1000.000	1009.000	970.000	970.000	970.000	0.000	-0.500	0.000
GR	452.900	687.000	448.300	787.000	445.400	860.000	441.200	887.000	431.100	938.000
GR	430.400	987.000	431.100	1000.000	428.000	1002.000	427.800	1005.000	428.100	1007.000
GR	431.200	1009.000	431.600	1087.000	443.100	1187.000	450.900	1287.000	452.000	1296.000
NC	0.000	0.000	0.000	0.500	0.700	0.000	0.000	0.000	0.000	0.000

X1	9000.000	15.000	1000.000	1008.000	100.000	100.000	100.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	444.200	444.200	0.000
GR	454.800	650.000	445.400	860.000	441.200	887.000	431.100	938.000	430.400	987.000
GR	431.100	1000.000	427.800	1000.100	427.800	1002.000	427.800	1004.000	427.800	1006.000
GR	427.800	1007.900	431.200	1008.000	431.600	1087.000	443.100	1187.000	452.100	1300.000
SB	0.000	1.600	2.800	0.000	7.100	0.000	63.000	0.000	427.800	427.800

ORH-13 SOUTHERN RR

X1	9040.000	0.000	0.000	0.000	40.000	40.000	40.000	0.000	0.000	0.000
X2	0.000	0.000	1.000	436.700	451.500	0.000	0.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	451.700	451.500	0.000
BT	15.000	550.000	454.800	454.800	860.000	452.700	445.400	887.000	452.500	441.200
BT	938.000	452.100	431.100	987.000	451.800	430.400	1000.000	451.700	431.100	1000.100
BT	451.700	432.800	1002.000	451.700	435.600	1004.000	451.700	436.700	1006.000	451.700
BT	435.600	1007.900	451.700	432.800	1008.000	451.700	431.200	1087.000	451.500	431.600
BT	1187.000	451.500	443.100	1300.000	452.100	452.100	0.000	0.000	0.000	0.000
BT	5.000	551.000	1043.000	1328.000	2236.000	1328.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.600	0.000	7.100	935.000	1100.000	0.000	0.000

X1	9100.000	15.000	1000.000	1009.000	60.000	60.000	60.000	0.000	0.000	0.000
X5	5.000	436.400	439.100	440.800	447.600	441.800	0.000	0.000	0.000	0.000
GR	452.900	687.000	448.300	787.000	445.400	860.000	441.200	887.000	431.100	938.000
GR	430.400	987.000	431.100	1000.000	428.000	1002.000	427.800	1005.000	428.100	1007.000
GR	431.200	1009.000	431.600	1087.000	443.100	1187.000	450.900	1287.000	452.000	1296.000
NC	0.000	0.000	0.000	0.100	0.300	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	907.000	1127.000	0.000	0.000

ORH-14 VALLEY

X1	9220.000	0.000	0.000	0.000	120.000	120.000	120.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	860.000	1160.000	0.000	0.000

X1	9530.000	15.000	1000.000	1008.000	310.000	310.000	310.000	0.000	-0.900	0.000
GR	453.300	627.000	445.800	727.000	436.700	627.000	433.800	927.000	433.500	1000.000
GR	432.000	1002.000	430.900	1004.000	431.300	1006.000	433.800	1008.000	433.300	1027.000
GR	434.100	1127.000	437.900	1227.000	446.600	1327.000	451.300	1427.000	454.300	1493.000
NC	0.000	0.000	0.000	0.400	0.600	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	860.000	1160.000	0.000	0.000

X1	9620.000	15.000	1000.000	1010.000	90.000	90.000	90.000	0.000	0.000	0.000
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X1	12251.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X3	10.000	0.000	3.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
GR	453.300	627.000	445.800	727.000	436.700	827.000	433.800	927.000	433.500	1000.000
GR	430.900	1000.100	430.900	1009.900	433.800	1010.000	433.300	1027.000	434.100	1127.000
GR	437.900	1227.000	446.600	1327.000	451.300	1427.000	454.300	1493.000	450.300	0.000
SB	0.000	1.600	2.800	0.000	10.000	0.100	60.000	0.000	431.200	430.900
ET	0.000	0.000	0.000	0.000	0.000	7.100	863.000	1170.000	0.000	0.000

DRH-15 SR 1710

X1	9660.000	0.000	0.000	0.000	40.000	40.000	40.000	0.000	0.300	0.000
X2	0.000	0.000	1.000	436.900	439.200	0.000	0.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	439.200	439.300	0.000
BT	13.000	627.000	453.300	0.000	727.000	445.800	0.000	762.000	442.400	0.000
BT	829.000	440.300	0.000	929.000	439.200	0.000	1000.000	439.300	436.900	1010.000
BT	439.300	436.900	1029.000	439.500	0.000	1129.000	440.700	0.000	1229.000	443.200
BT	0.000	1329.000	446.800	0.000	1427.000	451.300	0.000	1493.000	454.300	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	863.000	1170.000	0.000	0.000

X1	9720.000	15.000	1000.000	1008.000	60.000	60.000	60.000	0.000	0.000	0.000
GR	453.300	627.000	445.800	727.000	436.700	827.000	433.800	927.000	433.500	1000.000
GR	432.000	1002.000	430.900	1004.000	431.300	1006.000	433.800	1008.000	433.300	1027.000
GR	434.100	1127.000	437.900	1227.000	446.600	1327.000	451.300	1427.000	454.300	1493.000
NC	0.000	0.000	0.000	0.100	0.300	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	863.000	1170.000	0.000	0.000

DRH-16 VALLEY

X1	9900.000	0.000	0.000	0.000	180.000	180.000	180.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	935.000	1080.000	0.000	0.000

X1	10300.000	11.000	1000.000	1009.000	400.000	400.000	400.000	0.000	0.000	0.000
GR	460.000	760.000	437.500	920.000	436.900	1000.000	433.900	1003.000	432.900	1005.000
GR	433.300	1007.000	436.900	1009.000	437.000	1050.000	439.300	1125.000	449.000	1220.000
GR	458.000	1360.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	960.000	1070.000	0.000	0.000

X1	10500.000	11.000	1000.000	1010.000	200.000	200.000	200.000	0.000	0.000	0.000
GR	460.000	770.000	450.000	870.000	440.000	960.000	437.000	1000.000	434.900	1002.000
GR	434.000	1005.000	434.300	1008.000	437.000	1010.000	440.000	1070.000	450.000	1160.000
GR	460.000	1290.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BT	5.000	422.000	804.000	1026.000	1738.000	1026.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	9.400	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	855.000	1030.000	0.000	0.000

X1	12040.000	10.000	1000.000	1012.000	1540.000	1540.000	1540.000	0.000	0.000	0.000
GR	470.000	290.000	460.000	580.000	450.000	700.200	444.000	770.000	442.000	1000.000
GR	438.900	1002.000	438.900	1010.000	442.000	1012.000	450.000	1080.000	460.000	1160.000
NC	0.000	0.000	0.000	0.200	0.400	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	790.000	1030.000	0.000	0.000

X1	12210.000	8.000	1000.000	1008.000	170.000	170.000	170.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	445.700	445.700	0.000
GR	460.000	58.000	444.000	770.000	442.000	1000.000	439.500	1000.100	439.500	1007.900
GR	442.000	1008.000	450.000	1080.000	460.000	1160.000	0.000	0.000	0.000	0.000
SB	0.000	1.250	2.800	0.000	7.600	0.100	36.000	0.000	439.900	439.500
ET	0.000	0.000	0.000	0.000	0.000	7.100	970.000	1033.000	0.000	0.000

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GR	451.300	627.000	453.000	727.000	436.700	827.000	433.000	927.000	433.500	1000.000
GR	430.900	1000.100	430.900	1009.900	433.800	1010.000	433.300	1027.000	434.100	1127.000
GR	437.900	1227.000	446.600	1327.000	451.300	1427.000	454.300	1493.000	450.000	1700.000
SB	0.000	1.600	2.800	0.000	10.000	0.100	60.000	0.000	431.200	430.900
ET	0.000	0.000	0.000	0.000	0.000	7.100	860.000	1170.000	0.000	0.000

DRH-15 SR 1710

X1	9660.000	0.000	0.000	0.000	40.000	40.000	40.000	0.000	0.300	0.000
X2	0.000	0.000	1.000	436.900	439.200	0.000	0.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	439.200	439.300	0.000
BT	13.000	627.000	453.300	0.000	727.000	445.800	0.000	762.000	442.400	0.000
BT	829.000	440.300	0.000	929.000	439.200	0.000	1000.000	439.300	436.900	1010.000
BT	439.300	436.900	1029.000	439.500	0.000	1129.000	440.700	0.000	1229.000	443.200
BT	0.000	1329.000	446.800	0.000	1427.000	451.300	0.000	1493.000	454.300	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	863.000	1170.000	0.000	0.000

X1	9720.000	15.000	1000.000	1008.000	60.000	60.000	60.000	0.000	0.000	0.000
GR	453.300	627.000	445.800	727.000	436.700	827.000	433.800	927.000	433.500	1000.000
GR	432.000	1002.000	430.900	1004.000	431.300	1006.000	433.800	1008.000	433.300	1027.000
GR	434.100	1127.000	437.900	1227.000	446.600	1327.000	451.300	1427.000	454.300	1493.000
NC	0.000	0.000	0.000	0.100	0.300	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	863.000	1170.000	0.000	0.000

DRH-16 VALLEY

X1	9900.000	0.000	0.000	0.000	180.000	180.000	180.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	935.000	1020.000	0.000	0.000

X1	10300.000	11.000	1000.000	1009.000	400.000	400.000	400.000	0.000	0.000	0.000
GR	460.000	700.000	437.500	920.000	436.900	1000.000	433.900	1003.000	432.900	1005.000
GR	433.300	1007.000	436.900	1009.000	437.000	1050.000	439.300	1125.000	449.000	1220.000
GR	458.000	1360.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	960.000	1070.000	0.000	0.000

X1	10500.000	11.000	1000.000	1010.000	200.000	200.000	200.000	0.000	0.000	0.000
GR	460.000	770.000	450.000	870.000	440.000	960.000	437.000	1000.000	434.900	1002.000
GR	434.000	1005.000	434.300	1008.000	437.000	1010.000	440.000	1070.000	450.000	1160.000
GR	460.000	1290.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
QT	5.000	422.000	804.000	1026.000	1738.000	1026.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	9.400	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	855.000	1030.000	0.000	0.000

X1	12040.000	10.000	1000.000	1012.000	1540.000	1540.000	1540.000	0.000	0.000	0.000
GR	470.000	290.000	460.000	580.000	450.000	700.000	444.000	770.000	442.000	1000.000
GR	438.900	1002.000	438.900	1010.000	442.000	1012.000	450.000	1080.000	460.000	1160.000
NC	0.000	0.000	0.000	0.200	0.400	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	790.000	1050.000	0.000	0.000

X1	12210.000	8.000	1000.000	1008.000	170.000	170.000	170.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	445.700	445.700	0.000
GR	460.000	58.000	444.000	770.000	442.000	1000.000	439.500	1000.100	439.500	1007.900
GR	442.000	1008.000	450.000	1080.000	460.000	1160.000	0.000	0.000	0.000	0.000
SB	0.000	1.250	2.800	0.000	7.600	0.100	36.000	0.000	439.900	439.500
ET	0.000	0.000	0.000	0.000	0.000	7.100	970.000	1033.000	0.000	0.000

DRH-17 SR 1713

X1	12251.000	0.000	0.000	0.000	41.000	41.000	41.000	0.000	0.000	0.000
X2	0.000	0.000	1.000	444.300	446.800	0.000	0.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	446.800	446.800	0.000
BT	10.000	580.000	460.000	0.000	670.000	452.600	0.000	778.000	449.300	0.000
BT	478.000	447.400	0.000	978.000	446.900	0.000	1000.000	446.800	444.300	1008.000
BT	446.800	444.300	1058.000	447.200	0.000	1080.000	450.000	0.000	1160.000	460.000
BT	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	917.000	1033.000	0.000	0.000

ORH-18 VALLEY

Y1	12400.000	15.000	1000.000	1012.000	149.000	149.000	149.000	0.000	0.000	0.000
GR	460.200	607.000	455.800	707.000	449.200	807.000	444.500	907.000	442.200	1000.000
GR	440.000	1002.000	439.800	1006.000	439.800	1010.000	442.900	1012.000	446.200	1107.000
GR	449.100	1207.000	452.100	1307.000	455.600	1407.000	454.600	1507.000	461.500	1540.000
NC	0.000	0.000	0.000	0.100	0.300	0.000	0.000	0.000	0.000	0.000
QT	5.000	401.000	766.000	978.000	1658.000	978.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	935.000	1055.000	0.000	0.000

ORH-19 VALLEY

X1	12990.000	15.000	1073.000	1011.000	590.000	590.000	590.000	0.000	0.000	0.000
GR	464.400	689.000	458.800	789.000	451.900	876.000	448.800	889.000	449.700	911.000
GR	443.900	989.000	443.900	1000.000	440.600	1002.000	440.200	1005.000	440.400	1005.000
GR	444.000	1011.000	446.100	1089.000	455.200	1189.000	461.200	1289.000	464.500	1380.000
EJ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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\*\*\*\*\*  
HEC2 RELEASE DATED NOV 76 UPDATED AUG 77

ERROR CORR - 01,02

MODIFICATION - 50,51,52,53  
\*\*\*\*\*

T1 DRANGE COUNTY FIA STUDY

T2 RHODES CREEK

T3 50-YEAR

J1	ICHECK	INQ	NINV	IDIR	ST/T	METRIC	HVINS	Q	WSEL	FQ	
	0.	3.	0.	0.	0.000000	0.00	0.0	0.	381.900	0.000	
J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IRW	CHNIM	ITRACE	
	2.000	0.000	-1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	

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HEC2/ RELEASE DATED NOV 76/ UPDATED AUG 77

ERROR CORR - 01, 02

MODIFICATION - 50, 51, 52, 53

T1

T2

T3

100 YR RHODES CK

J1

ICHECK

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J2

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HEC2 RELEASE DATED NOV 76 UPDATED AUG 77

ERROR CORR -- 01,02

MODIFICATION -- 50,51,52,53  
\*\*\*\*\*

T1  
T2  
T3 500 YEAR RHODES CK

J1	ICHECK	IND	NINV	IDIR	STAT	METRIC	HVINS	Q	WSEL	FQ
	0.	5.	0.	0.	0.000000	0.00	0.0	0.	392.700	0.000

J2	NPROF	IPLDT	PHFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	15.000	0.000	-1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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\*\*\*\*\*  
 HEC2 RELEASE DATED NOV 76 UPDATED AUG 77  
 ERROR CORR - 01,02  
 MODIFICATION - 50,51,52,53  
 \*\*\*\*\*

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

NATURAL PROFILE JUL 78

SUMMARY PRINTOUT

SECNO	CNSL	EG	ELMIN	ELLC	HV
91330.000	381.60	382.18	371.90	0.00	0.58
91330.000	381.90	382.55	371.90	0.00	0.65
91330.000	382.10	382.75	371.90	0.00	0.65
91330.000	382.70	383.41	371.90	0.00	0.71
* 90.000	383.65	385.11	378.80	0.00	1.46
* 90.000	384.72	386.45	378.80	0.00	1.73
* 90.000	384.93	386.73	378.80	0.00	1.79
* 90.000	386.06	388.21	378.80	0.00	2.15
150.000	385.21	386.21	379.80	0.00	1.00
150.000	386.26	387.53	379.80	0.00	1.27
150.000	386.49	387.81	379.80	0.00	1.33
150.000	387.68	389.31	379.80	0.00	1.62
200.000	385.88	386.97	380.60	0.00	1.09
200.000	386.95	388.30	380.60	0.00	1.35
200.000	387.17	388.58	380.60	0.00	1.41
200.000	388.38	390.07	380.60	0.00	1.70
250.000	386.99	387.59	381.40	0.00	0.60
250.000	388.12	388.96	381.40	0.00	0.84
250.000	388.35	389.25	381.40	0.00	0.90
250.000	389.54	390.78	381.40	0.00	1.23
300.000	387.40	388.15	382.20	0.00	0.74
300.000	388.57	389.55	382.20	0.00	0.98
300.000	388.81	389.85	382.20	0.00	1.04
300.000	390.06	391.42	382.20	0.00	1.36
350.000	387.93	388.82	383.00	0.00	0.89
350.000	389.01	390.32	383.00	0.00	1.31
350.000	389.23	390.64	383.00	0.00	1.41
350.000	390.35	392.38	383.00	0.00	2.03
1640.000	398.98	399.20	393.80	0.00	0.22
1640.000	399.85	400.04	393.80	0.00	0.19
1640.000	400.05	400.23	393.80	0.00	0.18
1640.000	401.12	401.29	393.80	0.00	0.17

SECHD	CWSEL	EG	ELMIN	ELC	HV
2000.000	401.09	401.23	396.90	0.00	0.14
2000.000	401.77	401.94	396.90	0.00	0.17
2000.000	401.92	402.09	396.90	0.00	0.17
2000.000	402.76	402.96	396.90	0.00	0.20
2200.000	402.19	402.30	398.00	0.00	0.11
2200.000	402.98	403.14	398.00	0.00	0.15
2200.000	403.14	403.30	398.00	0.00	0.16
2200.000	403.98	404.17	398.00	0.00	0.19
2400.000	403.55	404.15	399.20	0.00	0.60
2400.000	404.50	405.02	399.20	0.00	0.52
2400.000	404.65	405.17	399.20	0.00	0.52
2400.000	405.47	406.02	399.20	0.00	0.54
4110.000	416.08	416.30	408.80	0.00	0.22
4110.000	417.41	417.70	408.80	0.00	0.29
4110.000	417.63	417.94	408.80	0.00	0.30
4110.000	418.82	419.18	408.80	0.00	0.36
4350.000	416.91	417.10	409.40	0.00	0.19
4350.000	418.38	418.62	409.40	0.00	0.24
4350.000	418.62	418.87	409.40	0.00	0.25
4350.000	419.89	420.18	409.40	0.00	0.29
4450.000	417.25	417.94	411.80	0.00	0.69
4450.000	419.65	419.80	411.80	0.00	1.15
4450.000	418.88	420.13	411.80	0.00	1.25
4450.000	420.01	421.85	411.80	0.00	1.84
4470.000	417.62	418.20	411.80	0.00	0.58
4470.000	419.23	420.17	411.80	0.00	0.94
4470.000	419.51	420.51	411.80	0.00	1.00
4470.000	421.05	422.40	411.80	0.00	1.34
4550.000	418.53	418.63	409.90	0.00	0.10
4550.000	420.63	420.74	409.90	0.00	0.10
4550.000	421.00	421.11	409.90	0.00	0.10
4550.000	423.00	423.11	409.90	0.00	0.11
4700.000	418.75	418.85	410.30	0.00	0.11
4700.000	420.83	420.94	410.30	0.00	0.11
4700.000	421.19	421.31	410.30	0.00	0.11
4700.000	423.17	423.29	410.30	0.00	0.12
4800.000	418.91	419.27	410.80	0.00	0.36
4800.000	420.92	421.61	410.80	0.00	0.69
4800.000	421.26	422.02	410.80	0.00	0.76
4800.000	423.12	424.31	410.80	0.00	1.19
5200.000	419.25	419.71	412.10	410.10	0.46
5200.000	422.68	423.31	412.10	410.10	0.63
5200.000	423.43	424.08	412.10	410.10	0.65
5200.000	428.55	429.21	412.10	410.10	0.66

SECNO	CHSEI	EG	ELMIN	ELLC	HV
5300.000	420.07	420.28	413.20	0.00	0.25
5300.000	423.67	423.79	413.20	0.00	0.12
5300.000	424.44	424.55	413.20	0.00	0.10
5300.000	429.56	429.59	413.20	0.00	0.04
5480.000	420.86	421.37	415.10	0.00	0.53
5480.000	423.90	424.15	415.10	0.00	0.25
5480.000	424.62	424.84	415.10	0.00	0.21
5480.000	429.60	429.66	415.10	0.00	0.06
5580.000	421.74	422.07	415.30	0.00	0.33
5580.000	424.20	424.44	415.30	0.00	0.24
5580.000	424.86	425.07	415.30	0.00	0.21
5580.000	429.65	429.72	415.30	0.00	0.07
5696.000	422.36	422.84	415.30	0.00	0.48
5696.000	424.55	425.38	415.30	0.00	0.83
5696.000	425.12	425.98	415.30	0.00	0.86
5696.000	429.55	430.44	415.30	0.00	0.89
5784.000	422.41	422.94	415.70	423.70	0.53
5784.000	425.44	426.18	415.70	423.70	0.75
5784.000	426.29	427.03	415.70	423.70	0.74
5784.000	433.10	433.69	415.70	423.70	0.59
5820.000	423.22	423.26	416.10	0.00	0.04
* 5820.000	425.90	425.92	416.10	0.00	0.02
* 5820.000	426.80	426.82	416.10	0.00	0.02
* 5820.000	433.70	433.71	416.10	0.00	0.01
5860.000	423.13	423.73	416.10	0.00	0.60
5860.000	425.92	425.94	416.10	0.00	0.02
5860.000	426.81	426.83	416.10	0.00	0.02
5860.000	433.70	433.71	416.10	0.00	0.01
5880.000	423.53	424.07	416.20	423.50	0.54
5880.000	426.53	426.55	416.20	423.50	0.02
5880.000	427.09	427.11	416.20	423.50	0.02
5880.000	433.77	433.78	416.20	423.50	0.01
5970.000	424.40	424.42	416.10	0.00	0.02
5970.000	426.55	426.57	416.10	0.00	0.02
5970.000	427.12	427.13	416.10	0.00	0.02
5970.000	433.78	433.78	416.10	0.00	0.01
6970.000	425.00	425.11	420.00	0.00	0.11
6970.000	426.96	426.98	420.00	0.00	0.02
6970.000	427.47	427.48	420.00	0.00	0.02
6970.000	433.82	433.82	420.00	0.00	0.00
7370.000	426.21	426.28	420.70	0.00	0.07
7370.000	427.39	427.45	420.70	0.00	0.07
7370.000	427.81	427.86	420.70	0.00	0.06
7370.000	433.84	433.84	420.70	0.00	0.01

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SECNO	CHSEL	EG	ELMIN	ELLC	HV
7930.000	428.31	428.65	423.60	0.00	0.34
7930.000	429.29	429.69	423.60	0.00	0.41
7930.000	429.48	429.91	423.60	0.00	0.43
7930.000	433.93	433.98	423.60	0.00	0.05
8900.000	433.02	433.07	427.30	0.00	0.05
8900.000	434.17	434.22	427.30	0.00	0.06
8900.000	434.42	434.48	427.30	0.00	0.06
8900.000	435.20	435.27	427.30	0.00	0.07
9000.000	433.00	435.60	427.80	0.00	2.60
* 9000.000	435.58	439.47	427.80	0.00	3.89
* 9000.000	436.21	440.39	427.80	0.00	4.18
* 9000.000	438.05	443.21	427.80	0.00	5.16
9040.000	437.53	438.82	427.80	436.70	1.29
9040.000	440.03	441.59	427.80	436.70	1.57
9040.000	442.37	443.75	427.80	436.70	1.39
9040.000	451.67	451.67	427.80	436.70	0.00
* 9100.000	436.40	436.41	427.80	0.00	0.01
* 9100.000	439.10	439.11	427.80	0.00	0.01
* 9100.000	440.80	440.81	427.80	0.00	0.01
* 9100.000	447.60	447.60	427.80	0.00	0.00
9220.000	436.43	436.43	427.80	0.00	0.01
9220.000	439.12	439.13	427.80	0.00	0.01
9220.000	440.82	440.83	427.80	0.00	0.01
9220.000	447.61	447.61	427.80	0.00	0.00
9530.000	436.51	436.51	430.00	0.00	0.00
9530.000	439.18	439.18	430.00	0.00	0.00
9530.000	440.86	440.86	430.00	0.00	0.00
9530.000	447.62	447.62	430.00	0.00	0.00
9620.000	435.82	437.79	430.90	0.00	1.97
9620.000	439.19	439.20	430.90	0.00	0.01
9620.000	440.87	440.87	430.90	0.00	0.00
9620.000	447.62	447.62	430.90	0.00	0.00
* 9660.000	436.32	438.14	431.20	436.90	1.82
9660.000	440.47	440.47	431.20	436.90	0.00
9660.000	441.12	441.12	431.20	436.90	0.00
9660.000	447.69	447.69	431.20	436.90	0.00
9720.000	438.88	438.88	430.90	0.00	0.00
9720.000	440.48	440.48	430.90	0.00	0.00
9720.000	441.13	441.13	430.90	0.00	0.00
9720.000	447.69	447.69	430.90	0.00	0.00
9900.000	438.90	438.90	430.90	0.00	0.00
9900.000	440.50	440.50	430.90	0.00	0.00
9900.000	441.15	441.15	430.90	0.00	0.00
9900.000	447.69	447.69	430.90	0.00	0.00

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SECNO	CHSEL	EG	ELMIN	ELLC	HV
10300.000	438.93	439.04	432.90	0.00	0.10
10300.000	440.58	440.63	432.90	0.00	0.05
10300.000	441.24	441.29	432.90	0.00	0.05
10300.000	447.71	447.72	432.90	0.00	0.01
10500.000	440.16	440.45	434.00	0.00	0.29
10500.000	441.24	441.56	434.00	0.00	0.33
10500.000	441.82	442.15	434.00	0.00	0.33
10500.000	447.75	447.80	434.00	0.00	0.05
12040.000	444.77	444.80	438.90	0.00	0.03
12040.000	445.86	445.89	438.90	0.00	0.03
12040.000	446.36	446.40	438.90	0.00	0.03
12040.000	448.80	448.83	438.90	0.00	0.02
12210.000	444.27	446.19	439.50	0.00	1.92
12210.000	446.07	446.09	439.50	0.00	0.02
12210.000	446.57	446.59	439.50	0.00	0.02
12210.000	448.91	448.92	439.50	0.00	0.01
* 12251.000	446.87	446.88	439.90	444.30	0.00
* 12251.000	447.95	447.96	439.90	444.30	0.01
12251.000	448.23	448.24	439.90	444.30	0.01
12251.000	449.26	449.28	439.90	444.30	0.01
12400.000	446.91	446.92	439.80	0.00	0.01
12400.000	448.00	448.02	439.80	0.00	0.02
12400.000	448.29	448.32	439.80	0.00	0.02
12400.000	449.35	449.38	439.80	0.00	0.03
12990.000	447.22	447.25	440.20	0.00	0.03
12990.000	448.40	448.43	440.20	0.00	0.03
12990.000	448.79	448.83	440.20	0.00	0.04
12990.000	449.99	450.04	440.20	0.00	0.06

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NATURAL PROFILE JUL 78

SUMMARY PRINTOUT

SECNO	CWSEL	QLOB	QCH	QROB	VLOB	VCH	VROB
91330.000	381.60	17.93	4651.32	30.75	0.68	6.15	0.69
91330.000	381.90	31.23	5115.64	53.13	0.86	6.54	0.87
91330.000	382.10	40.57	5230.80	64.63	0.93	6.54	0.95
91330.000	382.70	77.35	5844.04	128.62	1.10	6.86	1.21
* 90.000	383.65	2.76	878.23	39.01	1.57	9.91	1.81
* 90.000	384.72	8.98	1252.17	154.84	2.04	11.17	2.91
* 90.000	384.93	10.83	1338.44	187.73	2.14	11.45	3.10
* 90.000	386.06	24.43	1832.05	401.52	2.60	12.93	3.96
150.000	385.21	4.35	843.26	72.40	1.44	8.34	1.93
150.000	386.26	11.51	1207.54	196.95	1.87	9.74	2.76
150.000	386.49	13.65	1290.99	231.36	1.95	10.01	2.91
150.000	387.68	29.05	1769.45	454.51	2.36	11.40	3.63
200.000	385.88	3.95	851.81	64.24	1.47	8.69	1.91
200.000	386.95	10.99	1216.32	186.68	1.90	10.01	2.80
200.000	387.17	13.09	1300.02	222.89	1.98	10.27	2.95
200.000	388.38	28.29	1779.28	450.43	2.40	11.63	3.69
250.000	386.99	7.16	800.32	112.51	1.30	6.63	2.11
250.000	388.12	16.45	1178.35	221.20	1.66	7.98	2.72
250.000	388.35	19.08	1267.65	240.27	1.74	8.27	2.84
250.000	389.54	37.27	1792.53	424.20	2.15	9.86	3.50
300.000	387.40	5.95	814.64	94.41	1.39	7.32	2.25
300.000	388.57	14.75	1193.79	207.47	1.76	8.57	2.88
300.000	388.81	17.27	1283.27	231.46	1.83	8.85	3.00
300.000	390.06	35.11	1808.11	414.78	2.24	10.33	3.64
350.000	387.93	6.01	899.50	114.49	1.44	7.66	1.61
350.000	389.01	13.52	1362.63	35.85	1.83	9.35	2.16
350.000	389.23	15.62	1473.06	47.32	1.92	9.72	2.28
350.000	390.35	29.98	2127.00	101.02	2.39	11.77	2.91
1640.000	398.98	54.23	517.96	442.81	1.28	4.85	1.19
1640.000	399.85	98.76	623.05	694.19	1.50	4.95	1.44
1640.000	400.05	109.69	646.26	780.05	1.54	4.97	1.48
1640.000	401.12	176.89	776.53	1400.57	1.69	5.05	1.69
2000.000	401.09	521.55	314.70	84.74	1.66	4.53	1.22
2000.000	401.77	825.22	425.89	164.89	1.98	5.21	1.60
2000.000	401.92	899.28	450.96	185.76	2.04	5.34	1.67
2000.000	402.76	1348.81	591.29	417.90	2.32	5.94	2.02
2200.000	402.19	463.61	280.10	74.29	1.48	4.04	1.09
2200.000	402.98	828.05	418.33	169.62	1.91	5.00	1.56
2200.000	403.14	902.25	442.99	190.76	1.96	5.12	1.63
2200.000	403.98	1351.79	583.45	322.75	2.25	5.74	1.97
2400.000	403.55	245.09	497.76	75.14	2.22	7.76	1.49
2400.000	404.50	512.58	650.69	252.73	2.69	8.10	2.23
2400.000	404.65	565.67	681.14	284.19	2.76	8.21	2.34
2400.000	405.47	888.60	853.59	515.81	3.15	8.81	2.84

SECNO	CWSEL	Q108	QCH	QV08	VI08	VCH	VR08
4110.000	416.08	45.10	503.96	268.94	1.11	4.65	1.49
4110.000	417.41	115.02	739.40	561.57	1.52	5.70	2.01
4110.000	417.63	133.53	781.13	621.34	1.61	5.86	2.09
4110.000	418.82	254.34	1015.97	987.70	2.04	6.67	2.49
4350.000	416.91	48.73	488.28	280.99	1.06	4.35	1.43
4350.000	418.38	127.59	709.49	570.32	1.47	5.24	1.88
4350.000	418.62	147.12	749.28	639.59	1.55	5.37	1.95
4350.000	419.89	274.37	973.04	1010.58	1.91	6.09	2.30
4450.000	417.25	0.00	818.00	0.00	0.00	6.65	0.00
4450.000	418.65	0.00	1416.00	0.00	0.00	8.61	0.00
4450.000	418.88	0.00	1536.00	0.00	0.00	8.97	0.00
4450.000	420.01	0.00	2258.00	0.00	0.00	10.89	0.00
4470.000	417.62	0.00	818.00	0.00	0.00	6.11	0.00
4470.000	419.23	0.00	1416.00	0.00	0.00	7.77	0.00
4470.000	419.51	0.00	1536.00	0.00	0.00	8.04	0.00
4470.000	421.05	5.35	2252.65	0.00	0.82	9.30	0.00
4550.000	418.53	66.91	426.04	325.05	0.88	3.28	1.18
4550.000	420.63	178.23	597.32	640.45	1.16	3.65	1.39
4550.000	421.00	202.99	628.22	704.79	1.19	3.70	1.42
4550.000	423.00	364.85	797.29	1095.86	1.34	3.95	1.56
4700.000	418.75	62.91	435.69	314.40	0.89	3.43	1.20
4700.000	420.83	173.06	608.10	630.84	1.19	3.79	1.43
4700.000	421.19	197.57	639.23	699.20	1.23	3.84	1.47
4700.000	423.17	358.03	809.55	1090.42	1.38	4.09	1.61
4800.000	418.91	0.00	818.00	0.00	0.00	4.81	0.00
4800.000	420.92	0.00	1416.00	0.00	0.00	6.67	0.00
4800.000	421.26	0.00	1536.00	0.00	0.00	7.00	0.00
4800.000	423.12	0.00	2258.00	0.00	0.00	8.74	0.00
5200.000	419.25	0.00	818.00	0.00	0.00	5.46	0.00
5200.000	422.68	0.00	1416.00	0.00	0.00	6.38	0.00
5200.000	423.43	0.00	1536.00	0.00	0.00	6.46	0.00
5200.000	428.55	0.00	2258.00	0.00	0.00	6.54	0.00
5300.000	420.02	84.92	561.02	172.07	1.30	4.80	1.41
5300.000	423.67	231.54	709.89	474.58	1.09	3.74	1.17
5300.000	424.44	265.18	728.29	542.52	1.04	3.55	1.11
5300.000	429.56	520.91	737.67	499.42	0.81	2.40	0.84
5480.000	420.84	64.51	627.69	125.80	1.70	6.59	1.83
5480.000	423.90	198.31	810.41	407.28	1.47	5.18	1.59
5480.000	424.62	231.75	828.44	475.81	1.39	4.85	1.50
5480.000	429.60	484.74	829.16	940.10	1.01	3.07	1.05
5580.000	421.74	78.06	583.15	156.79	1.43	5.34	1.55
5580.000	424.20	200.56	803.54	411.90	1.44	5.07	1.56
5580.000	424.86	232.42	826.41	477.17	1.38	4.82	1.50
5580.000	429.65	481.26	838.23	938.51	1.03	3.14	1.07

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SECNO	CNSL	QLOB	QCH	QROB	VLOB	VCH	VROB
5696.000	422.36	0.00	818.00	0.00	0.00	5.53	0.00
5696.000	424.55	0.00	1416.00	0.00	0.00	7.31	0.00
5696.000	425.12	0.00	1536.00	0.00	0.00	7.46	0.00
5696.000	429.55	0.00	2258.00	0.00	0.00	7.55	0.00
5784.000	422.41	0.00	818.00	0.00	0.00	5.82	0.00
5784.000	425.44	0.00	1416.00	0.00	0.00	6.93	0.00
5784.000	426.29	0.00	1536.00	0.00	0.00	6.91	0.00
5784.000	433.10	0.00	2258.00	0.00	0.00	6.19	0.00
5820.000	423.22	345.16	293.66	174.8	0.80	2.30	0.74
* 5820.000	425.90	662.81	373.55	170.6	0.78	2.00	0.76
* 5820.000	426.80	730.67	379.10	126.19	0.73	1.84	0.71
* 5820.000	433.70	1182.46	387.83	687.70	0.43	1.08	0.43
5860.000	423.13	0.00	818.00	0.00	0.00	6.19	0.00
5860.000	425.92	658.09	370.72	387.20	0.77	1.97	0.75
5860.000	426.81	720.04	372.24	435.72	0.73	1.81	0.71
5860.000	433.70	1189.90	361.91	705.19	0.43	1.05	0.44
5880.000	423.53	0.00	818.00	0.00	0.00	5.92	0.00
5880.000	426.53	666.11	353.94	595.96	0.71	1.79	0.69
5880.000	427.09	730.54	366.83	438.63	0.71	1.75	0.69
5880.000	433.77	1189.48	362.37	706.16	0.43	1.06	0.44
5970.000	424.40	366.93	249.14	201.93	0.60	1.62	0.57
5970.000	425.55	670.98	355.42	389.59	0.70	1.77	0.68
5970.000	427.12	734.06	371.29	430.64	0.69	1.74	0.68
5970.000	433.78	1183.67	386.52	587.81	0.42	1.07	0.43
6970.000	425.00	194.85	249.55	89.62	0.78	3.78	0.78
6970.000	426.96	527.03	201.90	251.07	0.69	2.12	0.67
6970.000	427.47	604.66	201.20	292.14	0.67	1.95	0.64
6970.000	433.82	851.57	136.80	500.63	0.30	0.69	0.27
7370.000	426.21	216.78	224.37	92.85	0.87	3.05	0.86
7370.000	427.39	472.11	301.59	205.30	1.11	3.30	1.07
7370.000	427.81	546.04	311.61	240.35	1.12	3.19	1.08
7370.000	433.84	844.87	230.36	413.77	0.52	1.23	0.50
7930.000	428.51	19.02	350.86	160.12	1.10	5.69	1.58
7930.000	429.29	65.26	515.46	323.28	1.54	6.75	2.23
7930.000	429.48	74.64	556.82	461.54	1.63	7.03	2.37
7930.000	433.93	304.94	421.76	762.29	0.94	2.89	1.17
8900.000	433.02	224.27	127.55	182.18	1.20	2.92	1.00
8900.000	434.17	410.13	181.81	388.06	1.49	3.37	1.31
8900.000	434.42	458.87	195.00	440.13	1.55	3.46	1.38
8900.000	435.20	619.57	236.46	632.97	1.72	3.74	1.55
9000.000	433.00	0.00	534.00	0.00	0.00	15.94	0.00
* 9000.000	435.58	0.00	980.00	0.00	0.02	15.72	0.00
* 9000.000	436.21	0.00	1098.00	0.00	0.00	16.41	0.00
* 9000.000	438.05	0.00	1489.00	0.00	0.00	18.23	0.00

SECNO	CASEL	QLOB	QCH	QROR	VLOR	VCH	VROB
9040.000	437.53	0.00	534.00	0.00	0.00	9.12	0.00
9040.000	440.03	0.00	980.00	0.00	0.00	10.05	0.00
9040.000	442.37	0.00	1098.00	0.00	0.00	9.45	0.00
9040.000	451.67	0.00	77.28	1411.72	0.00	0.41	0.40
* 9100.000	436.40	228.39	80.62	241.99	0.54	1.16	0.49
* 9100.000	439.10	426.96	122.06	493.98	0.63	1.30	0.58
* 9100.000	440.80	540.24	140.77	646.99	0.63	1.29	0.59
* 9100.000	447.60	900.13	173.11	1162.76	0.50	1.02	0.48
9220.000	436.43	228.37	80.41	242.22	0.54	1.15	0.49
9220.000	439.12	426.92	121.89	490.19	0.63	1.30	0.58
9220.000	440.82	540.21	140.63	647.16	0.63	1.29	0.59
9220.000	447.61	900.13	173.08	1162.79	0.50	1.02	0.48
9530.000	436.51	223.39	50.68	276.94	0.45	1.16	0.47
9530.000	439.18	445.31	65.02	532.67	0.44	1.00	0.44
9530.000	440.86	573.37	71.96	682.67	0.41	0.92	0.42
9530.000	447.62	991.55	87.49	1154.96	0.31	0.66	0.31
9620.000	435.82	0.00	551.00	0.00	0.00	11.26	0.00
9620.000	439.19	433.36	96.33	513.31	0.52	1.17	0.53
9620.000	440.87	563.49	100.04	660.47	0.48	1.01	0.48
9620.000	447.62	985.41	109.80	1140.78	0.34	0.66	0.34
* 9660.000	436.32	0.00	551.00	0.00	0.00	10.82	0.00
9660.000	440.47	439.36	84.70	514.94	0.42	0.92	0.43
9660.000	441.12	563.24	100.50	664.25	0.48	1.02	0.49
9660.000	447.69	984.61	111.01	1140.38	0.35	0.67	0.35
9720.000	438.88	232.32	39.47	270.21	0.30	0.71	0.31
9720.000	440.48	446.71	62.60	533.68	0.41	0.92	0.41
9720.000	441.13	571.27	75.46	681.26	0.46	1.03	0.47
9720.000	447.69	989.40	90.33	1156.26	0.34	0.72	0.34
9900.000	438.90	232.36	39.40	270.24	0.30	0.71	0.30
9900.000	440.50	446.77	62.50	533.73	0.40	0.92	0.41
9900.000	441.15	571.35	75.32	681.32	0.46	1.02	0.47
9900.000	447.69	989.42	90.32	1156.26	0.34	0.72	0.34
10300.000	438.93	199.03	172.24	170.73	1.34	4.20	1.27
10300.000	440.58	421.85	189.22	431.93	1.33	3.39	1.28
10300.000	441.24	544.24	209.65	574.11	1.39	3.39	1.35
10300.000	447.71	960.67	186.67	1080.66	0.71	1.56	0.72
10500.000	440.16	100.69	299.14	151.17	1.52	5.69	1.52
10500.000	441.24	248.31	424.71	369.97	2.12	6.69	2.15
10500.000	441.82	341.78	480.79	505.43	2.31	6.94	2.36
10500.000	447.75	773.81	412.66	1049.53	1.21	3.21	1.27
12040.000	444.77	260.00	144.45	17.55	0.63	2.25	0.54
12040.000	445.86	570.16	192.40	41.44	0.84	2.49	0.65
12040.000	446.36	750.89	217.71	57.41	0.93	2.61	0.71
12040.000	448.80	1353.57	252.71	131.72	0.92	2.24	0.67

SECNO	CHSEL	QLOB	QCH	QROB	VLOB	VCH	VROB
12210.000	444.27	0.00	422.00	0.00	0.00	11.11	0.00
12210.000	446.07	646.56	108.95	48.49	0.81	2.08	0.65
12210.000	446.57	839.42	121.43	65.15	0.87	2.16	0.69
12210.000	448.91	1472.59	132.51	132.90	0.78	1.77	0.62
* 12251.000	446.87	344.36	51.08	26.56	0.37	10.92	0.29
* 12251.000	447.95	671.55	76.69	55.76	0.50	11.19	0.40
12251.000	448.23	860.33	92.91	72.76	0.60	11.40	0.47
12251.000	449.26	1472.14	133.32	132.54	0.78	1.78	0.62
12400.000	446.91	199.17	117.84	104.99	0.51	1.48	0.43
12400.000	448.00	387.90	178.16	237.93	0.69	1.92	0.60
12400.000	448.29	496.30	215.58	310.13	0.81	2.24	0.71
12400.000	449.35	842.92	306.96	588.13	1.05	2.82	0.92
12990.000	447.22	159.02	134.94	107.04	0.68	2.04	0.61
12990.000	448.40	327.36	194.22	240.42	0.92	2.45	0.84
12990.000	448.79	423.71	230.51	323.78	1.06	2.76	0.98
12990.000	449.99	740.20	324.84	592.95	1.38	3.36	1.27

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NATURAL PROFILE JUL 78

SUMMARY PRINTOUT

SECNO	CWSEL	SSTA	STCHL	STCHR	ENDST	TOPWID
91330.000	381.60	967.00	1000.00	1088.00	1142.00	175.00
91330.000	381.90	965.50	1000.00	1088.00	1143.00	177.50
91330.000	382.10	964.50	1000.00	1088.00	1143.67	179.17
91330.000	382.70	961.50	1000.00	1088.00	1145.67	184.17
* 90.000	383.65	998.09	1000.00	1022.00	1048.19	50.10
* 90.000	384.72	996.99	1000.00	1022.00	1054.29	57.30
* 90.000	384.93	996.77	1000.00	1022.00	1055.40	58.63
* 90.000	386.06	995.60	1000.00	1022.00	1061.26	65.66
150.000	385.21	997.51	1000.00	1022.00	1051.68	54.17
150.000	386.26	996.43	1000.00	1022.00	1057.08	60.65
150.000	386.49	996.20	1000.00	1022.00	1058.26	62.06
150.000	387.68	994.96	1000.00	1022.00	1064.46	69.49
200.000	385.88	997.65	1000.00	1022.00	1050.96	53.31
200.000	386.95	996.55	1000.00	1022.00	1056.51	59.96
200.000	387.17	996.31	1000.00	1022.00	1057.69	61.38
200.000	388.38	995.07	1000.00	1022.00	1063.93	68.86
250.000	386.99	996.65	1000.00	1024.00	1047.43	50.77
250.000	388.12	995.51	1000.00	1024.00	1050.75	55.24
250.000	388.35	995.28	1000.00	1024.00	1051.45	56.17
250.000	389.54	994.07	1000.00	1024.00	1054.99	60.92
300.000	387.40	997.05	1000.00	1024.00	1046.26	49.21
300.000	388.57	995.87	1000.00	1024.00	1049.71	53.85
300.000	388.81	995.62	1000.00	1024.00	1050.43	54.81
300.000	390.06	994.35	1000.00	1024.00	1054.15	59.80
350.000	387.93	997.48	1000.00	1024.00	1033.14	35.66
350.000	389.01	996.66	1000.00	1024.00	1036.21	39.56
350.000	389.23	996.49	1000.00	1024.00	1036.84	40.35
350.000	390.35	995.64	1000.00	1024.00	1040.01	44.37
1640.000	398.98	973.92	1000.00	1022.00	1239.69	265.76
1640.000	399.85	971.55	1000.00	1022.00	1243.80	272.25
1640.000	400.05	971.02	1000.00	1022.00	1244.72	273.79
1640.000	401.12	968.05	1000.00	1022.00	1249.88	281.83
2000.000	401.09	854.27	1000.00	1018.00	1067.24	212.97
2000.000	401.77	842.36	1000.00	1018.00	1070.50	228.15
2000.000	401.92	839.71	1000.00	1018.00	1071.23	231.52
2000.000	402.76	824.92	1000.00	1018.00	1075.28	250.36
2200.000	402.19	854.35	1000.00	1018.00	1067.22	212.87
2200.000	402.98	840.41	1000.00	1018.00	1071.04	230.63
2200.000	403.14	837.66	1000.00	1018.00	1071.79	234.13
2200.000	403.98	822.91	1000.00	1018.00	1075.82	252.91
2400.000	403.55	920.65	1000.00	1017.00	1080.26	159.61
2400.000	404.50	910.56	1000.00	1017.00	1085.28	174.72
2400.000	404.65	908.95	1000.00	1017.00	1086.09	177.14
2400.000	405.47	900.32	1000.00	1017.00	1090.39	190.06



SECNO	CWSEL	SSTA	STCHI	SICHR	ENDSI	TOPWID
4110.000	416.08	977.81	1000.00	1016.00	1085.09	107.28
4110.000	417.41	969.74	1000.00	1016.00	1094.63	124.89
4110.000	417.63	968.36	1000.00	1016.00	1096.25	127.90
4110.000	418.82	961.20	1000.00	1016.00	1104.69	143.50
4350.000	416.91	976.39	1000.00	1016.00	1086.77	110.39
4350.000	418.38	967.56	1000.00	1016.00	1097.20	129.63
4350.000	418.62	966.07	1000.00	1016.00	1098.95	132.88
4350.000	419.89	958.34	1000.00	1016.00	1108.06	149.72
4450.000	417.25	1003.79	1000.00	1036.00	1031.87	28.08
4450.000	418.65	1002.56	1000.00	1036.00	1032.98	30.42
4450.000	418.88	1002.37	1000.00	1036.00	1033.16	30.79
4450.000	420.01	1001.38	1000.00	1036.00	1034.05	32.67
4470.000	417.62	1003.46	1000.00	1036.00	1032.17	28.71
4470.000	419.23	1002.06	1000.00	1036.00	1033.44	31.38
4470.000	419.51	1001.82	1000.00	1036.00	1033.65	31.84
4470.000	421.05	940.66	1000.00	1036.00	1034.86	65.78
4550.000	418.53	969.61	1000.00	1016.00	1094.79	125.18
4550.000	420.63	956.86	1000.00	1016.00	1109.81	152.95
4550.000	421.00	954.63	1000.00	1016.00	1112.44	157.82
4550.000	423.00	942.51	1000.00	1016.00	1126.72	184.22
4700.000	418.75	970.73	1000.00	1016.00	1093.46	122.72
4700.000	420.83	958.10	1000.00	1016.00	1108.34	150.24
4700.000	421.19	955.89	1000.00	1016.00	1110.95	155.05
4700.000	423.17	943.89	1000.00	1016.00	1125.10	181.21
4800.000	418.91	1000.00	1000.00	1021.00	1021.00	21.00
4800.000	420.92	1000.00	1000.00	1021.00	1021.00	21.00
4800.000	421.26	1000.00	1000.00	1021.00	1021.00	21.00
4800.000	423.12	1000.00	1000.00	1021.00	1021.00	21.00
5200.000	419.25	1000.00	1000.00	1021.00	1021.00	21.00
5200.000	422.68	1000.00	1000.00	1021.00	1021.00	21.00
5200.000	423.43	1000.00	1000.00	1021.00	1021.00	21.00
5200.000	428.55	1000.00	1000.00	1021.00	1021.00	21.00
5300.000	420.02	971.11	1000.00	1020.00	1075.68	104.57
5300.000	423.67	947.83	1000.00	1020.00	1120.16	172.33
5300.000	424.44	942.92	1000.00	1020.00	1129.55	186.63
5300.000	429.56	905.00	1000.00	1020.00	1181.72	276.72
5480.000	420.84	978.01	1000.00	1020.00	1062.49	84.48
5480.000	423.90	958.50	1000.00	1020.00	1099.77	141.27
5480.000	424.62	953.89	1000.00	1020.00	1108.59	154.70
5480.000	429.60	918.95	1000.00	1020.00	1163.52	244.57
5580.000	421.74	973.56	1000.00	1020.00	1071.01	97.45
5580.000	424.20	957.86	1000.00	1020.00	1101.90	143.15
5580.000	424.86	953.69	1000.00	1020.00	1108.96	155.27
5580.000	429.65	920.13	1000.00	1020.00	1161.99	241.86

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SECNO	CHSEC	SSTA	SICHL	SICHR	ENDST	TOPWID
5696.000	422.36	1000.00	1000.00	1021.00	1021.00	21.00
5696.000	424.55	1000.00	1000.00	1021.00	1021.00	21.00
5696.000	425.12	1000.00	1000.00	1021.00	1021.00	21.00
5696.000	429.55	1000.00	1000.00	1021.00	1021.00	21.00
5784.000	422.41	1000.00	1000.00	1021.00	1021.00	21.00
5784.000	425.44	1000.00	1000.00	1021.00	1021.00	21.00
5784.000	426.29	1000.00	1000.00	1021.00	1021.00	21.00
5784.000	433.10	1000.00	1000.00	1021.00	1021.00	21.00
5820.000	423.22	654.02	1000.00	1022.00	1113.91	259.89
* 5820.000	425.90	834.43	1000.00	1022.00	1126.55	292.11
* 5820.000	426.80	827.85	1000.00	1022.00	1134.73	306.88
* 5820.000	433.70	652.00	1000.00	1022.00	1197.45	545.45
5860.000	423.13	1000.00	1000.00	1020.00	1020.00	20.00
5860.000	425.92	834.31	1000.00	1020.00	1126.70	292.39
5860.000	426.81	827.76	1000.00	1020.00	1134.84	307.09
5860.000	433.70	651.94	1000.00	1020.00	1197.48	545.54
5880.000	423.53	1000.00	1000.00	1020.00	1020.00	20.00
5880.000	426.53	830.51	1000.00	1020.00	1131.42	300.91
5880.000	427.09	826.39	1000.00	1020.00	1136.55	310.16
5880.000	433.77	652.58	1000.00	1020.00	1197.25	544.67
5970.000	424.40	845.38	1000.00	1022.00	1118.30	272.92
5970.000	426.55	829.62	1000.00	1022.00	1132.53	302.92
5970.000	427.12	825.53	1000.00	1022.00	1137.61	312.08
5970.000	433.78	650.09	1000.00	1022.00	1198.15	548.06
6970.000	425.00	750.07	1000.00	1015.00	1129.97	379.89
6970.000	426.96	750.42	1000.00	1015.00	1165.25	434.83
6970.000	427.47	725.55	1000.00	1015.00	1174.37	449.03
6970.000	433.82	657.91	1000.00	1015.00	1288.87	630.96
7370.000	426.21	857.89	1000.00	1015.00	1079.69	221.80
7370.000	427.39	846.11	1000.00	1015.00	1089.11	243.00
7370.000	427.81	841.94	1000.00	1015.00	1092.45	250.51
7370.000	433.54	781.64	1000.00	1015.00	1140.69	359.05
7930.000	428.31	979.87	1000.00	1015.00	1088.74	108.88
7930.000	429.29	968.39	1000.00	1015.00	1095.25	126.86
7930.000	429.48	966.13	1000.00	1015.00	1096.53	130.39
7930.000	433.93	908.89	1000.00	1015.00	1139.32	230.43
8900.000	433.02	925.77	1000.00	1009.00	1103.72	177.95
8900.000	434.17	920.01	1000.00	1009.00	1113.64	193.63
8900.000	434.42	918.70	1000.00	1009.00	1115.89	197.18
8900.000	435.20	914.77	1000.00	1009.00	1122.65	207.88
9000.000	433.00	1000.00	1000.00	1008.00	1008.00	8.00
* 9000.000	435.58	1000.00	1000.00	1008.00	1008.00	8.00
* 9000.000	436.21	1000.00	1000.00	1008.00	1008.00	8.00
* 9000.000	438.05	1000.00	1000.00	1008.00	1008.00	8.00

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SECNO	CHSEL	SSTA	STCHI	SICHR	ENDST	TOPWID
9040.000	437.53	1000.00	1000.00	1008.00	1008.00	8.00
9040.000	440.03	1000.00	1000.00	1008.00	1008.00	8.00
9040.000	442.37	1000.00	1000.00	1008.00	1008.00	8.00
9040.000	451.67	1000.00	1000.00	1008.00	1294.62	294.62
* 9100.000	436.40	911.24	1000.00	1009.00	1128.74	217.50
* 9100.000	439.10	897.60	1000.00	1009.00	1152.22	254.61
* 9100.000	440.80	889.02	1000.00	1009.00	1167.00	277.98
* 9100.000	447.60	804.62	1000.00	1009.00	1244.69	440.69
9220.000	436.43	911.12	1000.00	1009.00	1128.95	217.83
9220.000	439.12	897.49	1000.00	1009.00	1152.41	254.92
9220.000	440.82	888.93	1000.00	1009.00	1167.16	278.23
9220.000	447.61	804.50	1000.00	1009.00	1244.75	440.25
9530.000	436.51	819.30	1000.00	1008.00	1213.86	394.57
9530.000	439.18	789.86	1000.00	1008.00	1252.05	462.19
9530.000	440.86	771.35	1000.00	1008.00	1271.41	500.06
9530.000	447.62	699.71	1000.00	1008.00	1367.89	677.19
9620.000	435.82	1000.00	1000.00	1010.00	1010.00	10.00
9620.000	439.19	799.64	1000.00	1010.00	1241.82	442.18
9620.000	440.87	781.19	1000.00	1010.00	1261.12	479.93
9620.000	447.62	702.70	1000.00	1010.00	1348.76	646.07
* 9660.000	436.32	1000.00	1000.00	1010.00	1010.00	10.00
9660.000	440.47	788.84	1000.00	1010.00	1253.12	464.27
9660.000	441.12	781.70	1000.00	1010.00	1260.59	478.89
9660.000	447.69	705.83	1000.00	1010.00	1343.76	637.93
9720.000	438.88	803.04	1000.00	1008.00	1238.27	435.23
9720.000	440.48	785.47	1000.00	1008.00	1256.65	471.18
9720.000	441.13	778.36	1000.00	1008.00	1264.08	485.72
9720.000	447.69	701.84	1000.00	1008.00	1350.13	648.30
9900.000	438.90	802.91	1000.00	1008.00	1238.41	435.50
9900.000	440.50	785.28	1000.00	1008.00	1256.85	471.57
9900.000	441.15	778.10	1000.00	1008.00	1264.36	486.26
9900.000	447.69	701.76	1000.00	1008.00	1350.25	648.49
10300.000	438.93	906.02	1000.00	1004.00	1112.94	206.92
10300.000	440.58	889.92	1000.00	1004.00	1137.51	247.59
10300.000	441.24	883.42	1000.00	1004.00	1144.01	260.59
10300.000	447.71	820.23	1000.00	1004.00	1207.31	387.08
10500.000	440.16	958.59	1000.00	1010.00	1071.41	112.83
10500.000	441.24	948.76	1000.00	1010.00	1081.24	132.48
10500.000	441.82	943.57	1000.00	1010.00	1086.43	142.85
10500.000	447.75	890.31	1000.00	1010.00	1139.69	249.37
12040.000	444.77	760.94	1000.00	1012.00	1035.60	274.65
12040.000	445.86	748.29	1000.00	1012.00	1044.82	296.53
12040.000	446.36	742.39	1000.00	1012.00	1049.12	306.73
12040.000	448.80	713.96	1000.00	1012.00	1069.83	355.87

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SECNO	CNSFI	STA	STCH	STCHR	ENDSI	TOPMID														
12210.000	444.27	1000.00	1000.00	1008.00	1008.00	8.00														
12210.000	446.07	678.08	1000.00	1008.00	1044.59	366.51														
12210.000	446.57	655.78	1000.00	1008.00	1049.10	393.33														
12210.000	448.91	551.44	1000.00	1008.00	1070.20	518.76														
12251.000	446.87	659.72	1000.00	1008.00	1048.30	388.59														
12251.000	447.95	611.69	1000.00	1008.00	1058.02	446.32														
12251.000	448.23	599.19	1000.00	1008.00	1060.55	461.36														
12251.000	449.26	553.31	1000.00	1008.00	1069.83	516.52														
12400.000	446.91	855.97	1000.00	1012.00	1131.09	275.13														
12400.000	448.00	832.57	1000.00	1012.00	1169.01	336.44														
12400.000	448.29	826.33	1000.00	1012.00	1179.12	352.78														
12400.000	449.35	804.86	1000.00	1012.00	1215.04	410.18														
12990.000	447.22	900.22	1000.00	1011.00	1101.30	201.08														
12990.000	448.40	891.86	1000.00	1011.00	1114.24	222.38														
12990.000	448.79	889.08	1000.00	1011.00	1118.55	229.47														
12990.000	449.99	884.02	1000.00	1011.00	1131.72	247.71														

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NATURAL PROFILE JUL 78

SUMMARY PRINTOUT TABLE 150

SECNO	XLCH	ELTRD	ELLC	ELMIN	FO	CWSEL	CRWS	EG	10K*8M	VCH	AREA	.01K
91330.000	0.00	0.00	0.00	371.90	4700.00	381.60	0.00	382.18	26.87	6.15	826.90	906.72
91330.000	0.00	0.00	0.00	371.90	5200.00	381.90	0.00	382.55	28.99	6.54	879.77	965.85
91330.000	0.00	0.00	0.00	371.90	5340.00	382.10	0.00	382.75	28.14	6.54	915.44	1006.68
91330.000	0.00	0.00	0.00	371.90	6050.00	382.70	0.00	383.41	28.38	6.86	1024.44	1135.63
90.000	370.00	0.00	0.00	378.80	920.00	383.65	383.65	385.11	231.80	9.91	111.94	60.43
* 90.000	370.00	0.00	0.00	378.80	1416.00	384.72	384.72	386.45	214.72	11.17	169.71	96.63
* 90.000	370.00	0.00	0.00	378.80	1536.00	384.93	384.93	386.73	213.85	11.45	182.14	105.04
* 90.000	370.00	0.00	0.00	378.80	2258.00	386.06	386.06	388.21	210.61	12.93	252.30	155.59
150.000	60.00	0.00	0.00	379.80	920.00	385.21	0.00	386.21	137.67	8.34	141.68	78.41
150.000	60.00	0.00	0.00	379.80	1416.00	386.26	0.00	387.53	142.84	9.74	201.50	118.48
150.000	60.00	0.00	0.00	379.80	1536.00	386.49	0.00	387.81	143.17	10.01	215.39	128.37
150.000	60.00	0.00	0.00	379.80	2258.00	387.68	0.00	389.31	144.88	11.40	294.03	187.60
200.000	50.00	0.00	0.00	380.60	920.00	385.88	0.00	386.97	155.54	8.69	134.26	73.77
200.000	50.00	0.00	0.00	380.60	1416.00	386.95	0.00	388.30	154.82	10.01	194.83	113.80
200.000	50.00	0.00	0.00	380.60	1536.00	387.17	0.00	388.58	154.61	10.27	208.63	123.53
200.000	50.00	0.00	0.00	380.60	2258.00	388.38	0.00	390.07	153.74	11.63	287.01	182.11
250.000	50.00	0.00	0.00	381.40	920.00	386.99	0.00	387.59	88.48	6.63	179.55	97.81
250.000	50.00	0.00	0.00	381.40	1416.00	388.12	0.00	388.96	98.20	7.98	238.89	142.89
250.000	50.00	0.00	0.00	381.40	1536.00	388.35	0.00	389.25	100.42	8.27	251.85	153.28
250.000	50.00	0.00	0.00	381.40	2258.00	389.54	0.00	390.78	113.49	9.86	321.64	211.96
300.000	50.00	0.00	0.00	382.20	920.00	387.40	0.00	388.15	120.24	7.32	159.88	83.90
300.000	50.00	0.00	0.00	382.20	1416.00	388.57	0.00	389.55	122.49	8.57	219.82	127.94
300.000	50.00	0.00	0.00	382.20	1536.00	388.81	0.00	389.85	123.54	8.85	232.95	138.19
300.000	50.00	0.00	0.00	382.20	2258.00	390.06	0.00	391.42	130.95	10.33	304.70	197.32
350.000	50.00	0.00	0.00	383.00	920.00	387.93	0.00	388.82	133.76	7.66	130.68	79.55
350.000	50.00	0.00	0.00	383.00	1416.00	389.01	0.00	390.32	149.50	9.35	171.61	115.81
350.000	50.00	0.00	0.00	383.00	1536.00	389.23	0.00	390.64	153.56	9.72	180.46	123.95
350.000	50.00	0.00	0.00	383.00	2258.00	390.35	0.00	392.38	178.06	11.77	227.98	169.21
1640.000	1290.00	0.00	0.00	393.80	920.00	398.98	0.00	399.20	53.05	4.85	442.31	126.32
1640.000	1290.00	0.00	0.00	393.80	1416.00	399.85	0.00	400.04	44.44	4.95	674.82	212.40
1640.000	1290.00	0.00	0.00	393.80	1536.00	400.05	0.00	400.23	42.82	4.97	727.41	234.74
1640.000	1290.00	0.00	0.00	393.80	2258.00	401.12	0.00	401.29	35.27	5.05	1028.31	380.19
2000.000	360.00	0.00	0.00	396.90	920.00	401.09	0.00	401.23	59.54	4.53	451.53	119.23
2000.000	360.00	0.00	0.00	396.90	1416.00	401.77	0.00	401.94	63.52	5.21	601.32	177.67
2000.000	360.00	0.00	0.00	396.90	1536.00	401.92	0.00	402.09	63.87	5.34	635.97	192.20
2000.000	360.00	0.00	0.00	396.90	2258.00	402.76	0.00	402.96	63.27	5.94	839.15	283.88
2200.000	200.00	0.00	0.00	398.00	818.00	402.19	0.00	402.30	47.35	4.04	450.54	118.87
2200.000	200.00	0.00	0.00	398.00	1416.00	402.98	0.00	403.14	56.54	5.00	626.81	188.32
2200.000	200.00	0.00	0.00	398.00	1536.00	403.14	0.00	403.30	56.76	5.12	663.22	203.87
2200.000	200.00	0.00	0.00	398.00	2258.00	403.98	0.00	404.17	57.55	5.74	867.88	297.66
2400.000	200.00	0.00	0.00	399.20	818.00	403.55	0.00	404.15	196.33	7.76	224.68	58.38
2400.000	200.00	0.00	0.00	399.20	1416.00	404.50	0.00	405.02	158.12	8.10	384.33	112.61
2400.000	200.00	0.00	0.00	399.20	1536.00	404.65	0.00	405.17	155.82	8.21	411.24	123.05
2400.000	200.00	0.00	0.00	399.20	2258.00	405.47	0.00	406.02	146.06	8.81	561.24	186.83

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	QWSEL	CRINS	EG	JOKS	VCH	AREA	JOIK
4110.000	1710.00	0.00	0.00	408.80	818.00	416.08	0.00	416.30	36.19	4.65	329.23	135.98
4110.000	1710.00	0.00	0.00	408.80	1416.00	417.41	0.00	417.70	42.75	5.70	484.29	216.57
4110.000	1710.00	0.00	0.00	408.80	1536.00	417.63	0.00	417.94	43.51	5.86	513.04	232.87
4110.000	1710.00	0.00	0.00	408.80	2258.00	418.82	0.00	419.18	47.31	6.67	673.38	328.28
4350.000	240.00	0.00	0.00	409.40	818.00	416.91	0.00	417.10	30.31	4.35	354.89	148.58
4350.000	240.00	0.00	0.00	409.40	1416.00	418.38	0.00	418.62	34.07	5.24	530.00	242.61
4350.000	240.00	0.00	0.00	409.40	1536.00	418.62	0.00	418.87	34.54	5.37	562.22	261.35
4350.000	240.00	0.00	0.00	409.40	2258.00	419.89	0.00	420.18	36.94	6.09	742.52	371.53
4450.000	100.00	0.00	0.00	411.80	818.00	417.25	0.00	417.94	123.14	6.65	123.07	173.72
4450.000	100.00	0.00	0.00	411.80	1416.00	418.65	0.00	419.80	162.03	8.61	164.37	211.24
4450.000	100.00	0.00	0.00	411.80	1536.00	418.88	0.00	420.13	169.90	8.97	171.24	217.84
4450.000	100.00	0.00	0.00	411.80	2258.00	420.01	0.00	421.85	215.18	10.89	207.27	253.93
4470.000	20.00	0.00	0.00	411.80	818.00	417.62	0.00	418.20	96.89	6.11	133.82	183.10
4470.000	20.00	0.00	0.00	411.80	1416.00	419.23	0.00	420.17	121.17	7.77	162.27	228.64
4470.000	20.00	0.00	0.00	411.80	1536.00	419.51	0.00	420.51	125.01	8.04	191.03	237.38
4470.000	20.00	0.00	0.00	411.80	2258.00	421.05	0.00	422.40	139.24	9.30	250.75	291.26
4550.000	80.00	0.00	0.00	409.90	818.00	418.53	0.00	418.63	14.07	3.28	1487.01	218.10
4550.000	80.00	0.00	0.00	409.90	1416.00	420.63	0.00	420.74	12.84	3.65	779.53	395.16
4550.000	80.00	0.00	0.00	409.90	1536.00	421.00	0.00	421.11	12.62	3.70	836.77	432.31
4550.000	80.00	0.00	0.00	409.90	2258.00	423.00	0.00	423.11	11.43	3.95	1178.74	667.87
4700.000	150.00	0.00	0.00	410.30	818.00	418.75	0.00	418.85	15.89	3.43	463.95	205.20
4700.000	150.00	0.00	0.00	410.30	1416.00	420.83	0.00	420.94	14.24	3.79	748.35	375.23
4700.000	150.00	0.00	0.00	410.30	1536.00	421.19	0.00	421.31	13.97	3.84	804.05	410.99
4700.000	150.00	0.00	0.00	410.30	2258.00	423.17	0.00	423.29	12.52	4.09	1137.09	638.04
4800.000	100.00	0.00	0.00	410.80	818.00	418.91	0.00	419.27	40.28	4.81	169.91	128.88
4800.000	100.00	0.00	0.00	410.80	1416.00	420.92	0.00	421.61	62.47	6.67	212.20	179.15
4800.000	100.00	0.00	0.00	410.80	1536.00	421.26	0.00	422.02	66.60	7.00	219.47	188.21
4800.000	100.00	0.00	0.00	410.80	2258.00	423.12	0.00	424.31	89.56	8.74	258.47	238.59
5200.000	400.00	436.30	410.10	412.10	818.00	419.25	0.00	419.71	58.73	5.46	149.90	106.74
5200.000	400.00	436.30	410.10	412.10	1416.00	422.68	0.00	423.31	54.72	6.38	222.02	191.41
5200.000	400.00	436.30	410.10	412.10	1536.00	423.43	0.00	424.08	52.70	6.46	237.84	211.59
5200.000	400.00	436.30	410.10	412.10	2258.00	428.55	0.00	429.21	39.47	6.54	345.18	359.39
5300.000	100.00	0.00	0.00	413.20	818.00	420.02	0.00	420.28	37.63	4.80	303.98	133.35
5300.000	100.00	0.00	0.00	413.20	1416.00	423.67	0.00	423.79	11.96	3.74	808.88	409.36
5300.000	100.00	0.00	0.00	413.20	1536.00	424.44	0.00	424.55	9.71	3.55	947.10	492.94
5300.000	100.00	0.00	0.00	413.20	2258.00	429.56	0.00	429.59	2.59	2.40	2134.70	1403.53
5480.000	180.00	0.00	0.00	415.10	818.00	420.84	0.00	421.37	93.20	6.59	201.73	84.73
5480.000	180.00	0.00	0.00	415.10	1416.00	423.90	0.00	424.15	29.75	5.18	546.75	259.61
5480.000	180.00	0.00	0.00	415.10	1536.00	424.62	0.00	424.84	23.15	4.85	653.74	319.24
5480.000	180.00	0.00	0.00	415.10	2258.00	429.60	0.00	429.66	5.02	3.07	1650.90	1007.64
5580.000	100.00	0.00	0.00	415.30	818.00	421.74	0.00	422.07	50.98	5.34	265.25	114.57
5580.000	100.00	0.00	0.00	415.30	1416.00	424.20	0.00	424.44	28.02	5.07	561.14	267.50
5580.000	100.00	0.00	0.00	415.30	1536.00	424.86	0.00	425.07	22.76	4.82	658.51	321.95
5580.000	100.00	0.00	0.00	415.30	2258.00	429.65	0.00	429.72	5.34	3.14	1612.85	977.59

SECNO	XLCH	ELTRD	ELLO	ELMIN	Q	CHSEL	CRINS	EG	10K+S	VCH	AREA	.01K
5696.000	116.00	0.00	0.00	415.30	818.00	422.36	0.00	422.84	64.68	5.53	147.89	101.71
5696.000	116.00	0.00	0.00	415.30	1416.00	424.55	0.00	425.38	86.01	7.31	193.77	152.68
5696.000	116.00	0.00	0.00	415.30	1536.00	425.12	0.00	425.98	84.54	7.46	205.89	167.05
5696.000	116.00	0.00	0.00	415.30	2258.00	429.55	0.00	430.44	61.89	7.55	298.89	287.02
5784.000	88.00	438.60	423.70	415.70	818.00	422.41	0.00	422.94	75.42	5.02	140.62	94.19
5784.000	88.00	438.60	423.70	415.70	1416.00	425.44	0.00	426.18	73.61	6.93	204.21	165.05
5784.000	88.00	438.60	423.70	415.70	1536.00	426.29	0.00	427.03	67.55	6.91	222.18	186.89
5784.000	88.00	438.60	423.70	415.70	2258.00	433.10	0.00	433.69	35.23	6.19	365.06	380.41
5820.000	36.00	0.00	0.00	416.10	818.00	423.22	0.00	423.26	8.93	2.30	802.21	273.77
* 5820.000	36.00	0.00	0.00	416.10	1416.00	425.90	0.00	425.92	4.08	2.00	1538.50	700.64
* 5820.000	36.00	0.00	0.00	416.10	1536.00	426.80	0.00	426.82	3.01	1.84	1808.05	885.71
* 5820.000	36.00	0.00	0.00	416.10	2258.00	433.70	0.00	433.71	0.50	1.08	4722.94	3188.01
5860.000	40.00	0.00	0.00	416.10	818.00	423.13	0.00	423.73	78.49	6.19	132.12	92.33
5860.000	40.00	0.00	0.00	416.10	1416.00	425.92	0.00	425.94	3.99	1.97	1558.39	709.28
5860.000	40.00	0.00	0.00	416.10	1536.00	426.81	0.00	426.83	2.97	1.81	1824.88	891.89
5860.000	40.00	0.00	0.00	416.10	2258.00	433.70	0.00	433.71	0.51	1.05	4737.15	3169.34
5880.000	20.00	425.00	423.50	416.20	818.00	423.53	0.00	424.07	68.67	5.92	138.12	98.71
5880.000	20.00	425.00	423.50	416.20	1416.00	426.53	0.00	426.55	3.04	1.79	1710.31	812.57
5880.000	20.00	425.00	423.50	416.20	1536.00	427.09	0.00	427.11	2.71	1.75	1882.74	932.70
5880.000	20.00	425.00	423.50	416.20	2258.00	433.77	0.00	433.78	0.51	1.06	4723.25	3157.53
5970.000	90.00	0.00	0.00	416.10	818.00	424.40	0.00	424.42	3.47	1.62	1116.97	439.25
5970.000	90.00	0.00	0.00	416.10	1416.00	426.55	0.00	426.57	2.88	1.77	1734.42	834.00
5970.000	90.00	0.00	0.00	416.10	1536.00	427.12	0.00	427.13	2.58	1.74	1906.25	955.74
5970.000	90.00	0.00	0.00	416.10	2258.00	433.78	0.00	433.78	0.49	1.07	4764.66	3223.86
6970.000	1000.00	0.00	0.00	420.00	534.00	425.00	0.00	425.11	39.67	3.78	430.78	84.78
6970.000	1000.00	0.00	0.00	420.00	980.00	426.96	0.00	426.98	7.61	2.12	1228.85	355.29
6970.000	1000.00	0.00	0.00	420.00	1098.00	427.47	0.00	427.48	5.85	1.95	1452.88	453.93
6970.000	1000.00	0.00	0.00	420.00	1489.00	433.82	0.00	433.82	0.30	0.69	4882.95	2700.69
7370.000	400.00	0.00	0.00	420.70	534.00	426.21	0.00	426.28	22.22	3.05	431.22	113.28
7370.000	400.00	0.00	0.00	420.70	980.00	427.39	0.00	427.45	19.61	3.30	704.91	221.30
7370.000	400.00	0.00	0.00	420.70	1098.00	427.81	0.00	427.86	16.79	3.19	807.84	267.99
7370.000	400.00	0.00	0.00	420.70	1489.00	433.34	0.00	433.84	1.03	1.23	2645.61	1466.75
7930.000	560.00	0.00	0.00	423.60	534.00	428.31	0.00	428.65	98.28	5.69	182.88	53.87
7930.000	560.00	0.00	0.00	423.60	980.00	429.29	0.00	429.69	104.30	6.75	297.90	95.96
7930.000	560.00	0.00	0.00	423.60	1098.00	429.48	0.00	429.91	107.60	7.03	322.53	105.85
7930.000	560.00	0.00	0.00	423.60	1489.00	433.93	0.00	433.98	8.03	2.89	1121.19	525.30
8900.000	970.00	0.00	0.00	427.30	534.00	433.02	0.00	433.07	25.91	2.92	412.03	104.90
8900.000	970.00	0.00	0.00	427.30	980.00	434.17	0.00	434.22	26.06	3.37	623.95	191.99
8900.000	970.00	0.00	0.00	427.30	1098.00	434.42	0.00	434.48	36.04	3.46	674.50	215.19
8900.000	970.00	0.00	0.00	427.30	1489.00	435.20	0.00	435.27	25.90	3.74	832.10	292.57
9000.000	100.00	0.00	0.00	427.80	534.00	433.00	432.99	435.60	797.74	12.94	41.27	18.91
* 9000.000	100.00	0.00	0.00	427.80	980.00	435.58	435.58	439.47	843.85	15.82	61.93	33.74
* 9000.000	100.00	0.00	0.00	427.80	1098.00	436.21	436.21	440.39	854.20	16.41	66.92	37.57
* 9000.000	100.00	0.00	0.00	427.80	1489.00	438.05	438.05	443.21	911.21	18.23	81.68	49.33

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SECNO	XLCH	FLTRD	FLLC	FIMTN	D	CWSEL	CRWS	EG	10K*8	VCH	AREA	01K
9040.000	40.00	451.50	436.70	427.80	534.00	437.53	0.00	438.82	527.58	9.12	58.54	23.25
9040.000	40.00	451.50	436.70	427.80	980.00	440.03	0.00	441.59	246.23	10.05	97.48	62.45
9040.000	40.00	451.50	436.70	427.80	1098.00	442.37	0.00	443.75	195.36	9.45	116.20	78.56
9040.000	40.00	451.50	436.70	427.80	1489.00	451.67	0.00	451.67	0.28	0.41	3685.57	2812.38
* 9100.000	60.00	0.00	0.00	427.80	551.00	436.40	0.00	436.41	2.19	1.16	980.99	371.97
* 9100.000	60.00	0.00	0.00	427.80	1043.00	439.10	0.00	439.11	1.85	1.30	1618.35	766.06
* 9100.000	60.00	0.00	0.00	427.80	1328.00	440.80	0.00	440.81	1.49	1.29	2071.05	1087.72
* 9100.000	60.00	0.00	0.00	427.80	2236.00	447.60	0.00	447.60	0.51	1.02	4394.47	3126.46
9220.000	120.00	0.00	0.00	427.80	551.00	436.43	0.00	436.43	2.16	1.15	986.20	374.85
9220.000	120.00	0.00	0.00	427.80	1043.00	439.12	0.00	439.13	1.84	1.30	1623.99	769.88
9220.000	120.00	0.00	0.00	427.80	1328.00	440.82	0.00	440.83	1.48	1.29	2076.04	1091.42
9220.000	120.00	0.00	0.00	427.80	2236.00	447.61	0.00	447.61	0.51	1.02	4396.57	3128.35
9530.000	310.00	0.00	0.00	430.00	551.00	436.51	0.00	436.51	3.12	1.16	1121.72	311.76
9530.000	310.00	0.00	0.00	430.00	1043.00	439.18	0.00	439.18	1.35	1.00	2277.20	896.57
9530.000	310.00	0.00	0.00	430.00	1328.00	440.86	0.00	440.86	0.88	0.92	3087.67	1412.37
9530.000	310.00	0.00	0.00	430.00	2236.00	447.62	0.00	447.62	0.23	0.66	7007.28	4687.85
9620.000	90.00	0.00	0.00	430.90	551.00	435.82	0.00	437.79	529.86	11.26	48.93	23.94
9620.000	90.00	0.00	0.00	430.90	1043.00	439.19	0.00	439.20	2.34	1.17	1888.45	681.92
9620.000	90.00	0.00	0.00	430.90	1328.00	440.87	0.00	440.87	1.36	1.01	2662.38	1137.85
9620.000	90.00	0.00	0.00	430.90	2236.00	447.62	0.00	447.62	0.29	0.66	6425.91	4142.05
* 9660.000	40.00	439.20	436.90	431.20	551.00	436.32	0.00	438.14	470.78	10.82	57.92	25.39
* 9660.000	40.00	439.20	436.90	431.20	1043.00	440.47	0.00	440.47	1.24	0.92	2334.75	935.29
* 9660.000	40.00	439.20	436.90	431.20	1328.00	441.12	0.00	441.12	1.40	1.02	2640.40	1123.92
* 9660.000	40.00	439.20	436.90	431.20	2236.00	447.69	0.00	447.69	0.31	0.67	6274.91	4001.30
9720.000	60.00	0.00	0.00	430.90	551.00	438.88	0.00	438.88	0.85	0.71	1739.30	597.86
9720.000	60.00	0.00	0.00	430.90	1043.00	440.48	0.00	440.48	1.07	0.92	2463.86	1008.89
9720.000	60.00	0.00	0.00	430.90	1328.00	441.13	0.00	441.13	1.22	1.03	2773.36	1203.93
9720.000	60.00	0.00	0.00	430.90	2236.00	447.69	0.00	447.69	0.29	0.72	6454.11	4165.12
9900.000	180.00	0.00	0.00	430.90	551.00	438.90	0.00	438.90	0.84	0.71	1744.47	600.54
9900.000	180.00	0.00	0.00	430.90	1043.00	440.50	0.00	440.50	1.06	0.92	2472.14	1013.98
9900.000	180.00	0.00	0.00	430.90	1328.00	441.15	0.00	441.15	1.20	1.02	2784.88	1211.40
9900.000	180.00	0.00	0.00	430.90	2236.00	447.69	0.00	447.69	0.29	0.72	6457.70	4168.47
10300.000	400.00	0.00	0.00	430.90	551.00	438.93	0.00	439.04	0.04	4.20	331.30	71.11
10300.000	400.00	0.00	0.00	430.90	1043.00	440.58	0.00	440.63	25.89	3.39	710.93	205.00
10300.000	400.00	0.00	0.00	430.90	1328.00	441.24	0.00	441.29	22.63	3.39	879.73	279.14
10300.000	400.00	0.00	0.00	430.90	2236.00	447.71	0.00	447.72	1.96	1.56	2972.67	1595.12
10500.000	200.00	0.00	0.00	430.00	551.00	440.16	0.00	440.45	76.98	5.69	218.51	62.80
10500.000	200.00	0.00	0.00	430.00	1043.00	441.24	0.00	441.56	82.73	6.69	352.40	114.67
10500.000	200.00	0.00	0.00	430.00	1328.00	441.82	0.00	442.15	79.36	6.94	431.76	149.08
10500.000	200.00	0.00	0.00	430.00	2236.00	447.75	0.00	447.80	7.46	5.21	1592.27	818.66
12040.000	1540.00	0.00	0.00	430.90	422.00	444.77	0.00	444.80	12.20	2.25	509.10	120.80
12040.000	1540.00	0.00	0.00	430.90	804.00	445.86	0.00	445.89	11.71	2.49	818.90	234.92
12040.000	1540.00	0.00	0.00	430.90	1026.00	446.36	0.00	446.40	11.66	2.61	971.47	300.50
12040.000	1540.00	0.00	0.00	430.90	1738.00	448.80	0.00	448.83	5.77	2.24	1778.67	723.67

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SECNO	XLCH	ELTRD	ELIC	ELMIN	Q	CWSL	CRWS	EG	10K'S	VCH	AREA	.01K
12210.000	170.00	0.00	0.00	439.50	422.00	444.27	0.00	446.19	587.32	11.11	37.98	17.41
12210.000	170.00	0.00	0.00	439.50	804.00	446.07	0.00	446.09	10.85	2.08	926.70	244.07
12210.000	170.00	0.00	0.00	439.50	1026.00	446.57	0.00	446.59	10.54	2.16	1117.10	316.08
12210.000	170.00	0.00	0.00	439.50	1738.00	448.91	0.00	448.92	4.81	1.77	2186.33	792.44
* 12251.000	41.00	446.80	444.30	439.90	422.00	446.87	0.00	446.88	1.94	0.92	1082.47	302.62
* 12251.000	41.00	446.80	444.30	439.90	804.00	447.95	0.00	447.96	2.71	1.19	1533.00	488.48
12251.000	41.00	446.80	444.30	439.90	1026.00	448.23	0.00	448.24	3.55	1.40	1660.56	544.92
12251.000	41.00	446.80	444.30	439.90	1738.00	449.26	0.00	449.28	4.94	1.78	2164.63	781.79
12400.000	149.00	0.00	0.00	439.80	422.00	446.91	0.00	446.92	3.69	1.48	716.40	219.54
12400.000	149.00	0.00	0.00	439.80	804.00	448.00	0.00	448.02	5.06	1.92	1052.66	357.47
12400.000	149.00	0.00	0.00	439.80	1026.00	448.29	0.00	448.32	6.54	2.24	1153.64	401.17
12400.000	149.00	0.00	0.00	439.80	1738.00	449.35	0.00	449.38	8.80	2.82	1554.61	586.02
12990.000	590.00	0.00	0.00	440.20	401.00	447.22	0.00	447.25	9.00	2.04	475.66	133.65
12990.000	590.00	0.00	0.00	440.20	766.00	448.40	0.00	448.43	10.28	2.45	724.99	238.91
12990.000	590.00	0.00	0.00	440.20	978.00	448.79	0.00	448.83	12.13	2.76	813.61	280.78
12990.000	590.00	0.00	0.00	440.20	1658.00	449.99	0.00	450.04	14.78	3.36	1099.69	431.32

NATURAL PROFILE JUL 7

SUMMARY PRINTOUT TABLE 150

SECNO	CSSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
91330.000	4700.00	381.60	0.00	0.00	175.00	200.00
91330.000	5200.00	381.90	0.30	0.00	177.50	200.00
91330.000	5340.00	382.10	0.20	0.00	179.17	200.00
91330.000	6050.00	382.70	0.60	0.00	184.17	200.00
* 90.000	920.00	383.65	0.00	2.05	50.10	370.00
* 90.000	1416.00	384.72	1.07	2.82	57.30	370.00
* 90.000	1536.00	384.93	0.21	2.83	58.63	370.00
* 90.000	2258.00	386.06	1.13	3.36	65.66	370.00
150.000	920.00	385.21	0.00	1.56	54.17	60.00
150.000	1416.00	386.26	1.05	1.54	60.65	60.00
150.000	1536.00	386.49	0.23	1.55	62.06	60.00
150.000	2258.00	387.68	1.20	1.62	69.49	60.00
200.000	920.00	385.88	0.00	0.67	53.31	50.00
200.000	1416.00	386.95	1.07	0.69	59.96	50.00
200.000	1536.00	387.17	0.23	0.69	61.38	50.00
200.000	2258.00	388.38	1.20	0.69	68.86	50.00
250.000	920.00	386.99	0.00	1.11	50.77	50.00
250.000	1416.00	388.12	1.13	1.17	55.24	50.00
250.000	1536.00	388.35	0.23	1.18	56.17	50.00
250.000	2258.00	389.54	1.19	1.17	60.92	50.00
300.000	920.00	387.40	0.00	0.41	49.21	50.00
300.000	1416.00	388.57	1.16	0.45	53.85	50.00
300.000	1536.00	388.81	0.24	0.46	54.81	50.00
300.000	2258.00	390.06	1.25	0.52	59.80	50.00
350.000	920.00	387.93	0.00	0.53	35.66	50.00
350.000	1416.00	389.01	1.08	0.45	39.56	50.00
350.000	1536.00	389.23	0.22	0.43	40.35	50.00
350.000	2258.00	390.35	1.12	0.29	44.37	50.00
1640.000	920.00	398.98	0.00	11.05	265.76	1290.00
1640.000	1416.00	399.85	0.87	10.84	272.25	1290.00
1640.000	1536.00	400.05	0.20	10.81	273.70	1290.00
1640.000	2258.00	401.12	1.07	10.77	281.83	1290.00
2000.000	920.00	401.09	0.00	2.11	212.97	360.00
2000.000	1416.00	401.77	0.68	1.92	228.15	360.00
2000.000	1536.00	401.92	0.15	1.87	231.52	360.00
2000.000	2258.00	402.76	0.14	1.64	250.36	360.00
2200.000	818.00	402.19	0.00	1.10	212.87	200.00
2200.000	1416.00	402.98	0.80	1.21	230.63	200.00
2200.000	1536.00	403.14	0.16	1.22	234.13	200.00
2200.000	2258.00	403.98	0.84	1.22	252.91	200.00
2400.000	818.00	403.55	0.00	1.36	159.61	200.00
2400.000	1416.00	404.50	0.95	1.51	174.72	200.00
2400.000	1536.00	404.65	0.15	1.51	177.14	200.00
2400.000	2258.00	405.47	0.82	1.49	190.06	200.00

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKMS	TOPWID	XLCH
4110.000	818.00	416.08	0.00	12.53	0.00	107.28	1710.00
4110.000	1416.00	417.41	1.33	12.91	0.00	124.89	1710.00
4110.000	1536.00	417.63	0.23	12.98	0.00	127.90	1710.00
4110.000	2258.00	418.82	1.18	13.35	0.00	143.50	1710.00
4350.000	818.00	416.91	0.00	0.83	0.00	110.39	240.00
4350.000	1416.00	418.38	1.47	0.97	0.00	129.63	240.00
4350.000	1536.00	418.62	0.24	0.99	0.00	132.88	240.00
4350.000	2258.00	419.89	1.27	1.08	0.00	149.72	240.00
4450.000	818.00	417.25	0.00	0.34	0.00	28.08	100.00
4450.000	1416.00	418.65	1.40	0.28	0.00	30.42	100.00
4450.000	1536.00	418.88	0.22	0.26	0.00	30.79	100.00
4450.000	2258.00	420.01	1.13	0.12	0.00	32.67	100.00
4470.000	818.00	417.62	0.00	0.37	0.00	28.71	20.00
4470.000	1416.00	419.23	1.62	0.58	0.00	31.38	20.00
4470.000	1536.00	419.51	0.28	0.63	0.00	31.84	20.00
4470.000	2258.00	421.05	1.54	1.04	0.00	65.78	20.00
4550.000	818.00	418.53	0.00	0.91	0.00	125.18	80.00
4550.000	1416.00	420.63	2.10	1.40	0.00	152.95	80.00
4550.000	1536.00	421.00	0.37	1.49	0.00	157.82	80.00
4550.000	2258.00	423.00	2.00	1.95	0.00	184.22	80.00
4700.000	818.00	418.75	0.00	0.22	0.00	122.72	150.00
4700.000	1416.00	420.83	2.08	0.20	0.00	150.24	150.00
4700.000	1536.00	421.19	0.36	0.19	0.00	155.05	150.00
4700.000	2258.00	423.17	1.98	0.17	0.00	181.21	150.00
4800.000	818.00	418.91	0.00	0.16	0.00	21.00	100.00
4800.000	1416.00	420.92	2.01	0.09	0.00	21.00	100.00
4800.000	1536.00	421.26	0.35	0.07	0.00	21.00	100.00
4800.000	2258.00	423.12	1.86	-0.06	0.00	21.00	100.00
5200.000	818.00	419.25	0.00	0.34	0.00	21.00	400.00
5200.000	1416.00	422.68	3.43	1.76	0.00	21.00	400.00
5200.000	1536.00	423.43	0.75	2.17	0.00	21.00	400.00
5200.000	2258.00	428.55	5.11	5.43	0.00	21.00	400.00
5300.000	818.00	420.02	0.00	0.78	0.00	104.57	100.00
5300.000	1416.00	423.67	3.65	0.99	0.00	172.33	100.00
5300.000	1536.00	424.44	0.77	1.01	0.00	186.63	100.00
5300.000	2258.00	429.56	5.11	1.01	0.00	276.72	100.00
5480.000	818.00	420.84	0.00	0.82	0.00	84.48	180.00
5480.000	1416.00	423.90	3.06	0.23	0.00	141.27	180.00
5480.000	1536.00	424.62	0.72	0.18	0.00	154.70	180.00
5480.000	2258.00	429.60	4.98	0.04	0.00	244.57	180.00
5580.000	818.00	421.74	0.00	0.90	0.00	97.45	100.00
5580.000	1416.00	424.20	2.46	0.30	0.00	143.15	100.00
5580.000	1536.00	424.86	0.65	0.23	0.00	155.27	100.00
5580.000	2258.00	429.65	4.79	0.05	0.00	241.86	100.00

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SFCNO	D	CHSEL	DIENSP	DIENSX	DIFKWS	TOPWID	XLCH
5696.000	818.00	422.36	0.00	0.62	0.00	21.00	116.00
5696.000	1416.00	424.55	2.19	0.35	0.00	21.00	116.00
5696.000	1536.00	425.12	0.56	0.26	0.00	21.00	116.00
5696.000	2258.00	429.55	4.43	-0.10	0.00	21.00	116.00
5784.000	818.00	422.41	0.00	0.05	0.00	21.00	88.00
5784.000	1416.00	425.44	3.02	0.88	0.00	21.00	88.00
5784.000	1536.00	426.29	0.86	1.18	0.00	21.00	88.00
5784.000	2258.00	433.10	6.81	3.55	0.00	21.00	88.00
5820.000	818.00	423.22	0.00	0.81	0.00	259.89	36.00
* 5820.000	1416.00	425.90	2.68	0.46	0.00	292.11	36.00
* 5820.000	1536.00	426.80	0.90	0.51	0.00	306.88	36.00
* 5820.000	2258.00	433.70	6.90	0.60	0.00	545.45	36.00
5860.000	818.00	423.13	0.00	-0.09	0.00	20.00	40.00
5860.000	1416.00	425.92	2.78	0.02	0.00	292.39	40.00
5860.000	1536.00	426.81	0.90	0.01	0.00	307.09	40.00
5860.000	2258.00	433.70	6.89	0.00	0.00	545.54	40.00
5880.000	818.00	423.53	0.00	0.40	0.00	20.00	20.00
5880.000	1416.00	426.53	3.00	0.61	0.00	300.91	20.00
5880.000	1536.00	427.09	0.56	0.28	0.00	310.16	20.00
5880.000	2258.00	433.77	6.68	0.07	0.00	544.67	20.00
5970.000	818.00	424.40	0.00	0.88	0.00	272.92	90.00
5970.000	1416.00	426.55	2.15	0.03	0.00	302.92	90.00
5970.000	1536.00	427.12	0.56	0.02	0.00	312.08	90.00
5970.000	2258.00	433.78	6.66	0.00	0.00	548.06	90.00
6970.000	534.00	425.00	0.00	0.60	0.00	379.89	1000.00
6970.000	980.00	426.96	1.95	0.40	0.00	434.83	1000.00
6970.000	1098.00	427.47	0.51	0.35	0.00	449.03	1000.00
6970.000	1489.00	433.82	6.35	0.04	0.00	630.96	1000.00
7370.000	534.00	426.21	0.00	1.21	0.00	221.80	400.00
7370.000	980.00	427.39	1.18	0.43	0.00	243.00	400.00
7370.000	1098.00	427.81	0.42	0.34	0.00	250.51	400.00
7370.000	1489.00	433.84	6.03	0.02	0.00	359.05	400.00
7930.000	534.00	428.31	0.00	2.09	0.00	108.88	560.00
7930.000	980.00	429.29	0.98	1.90	0.00	126.86	560.00
7930.000	1098.00	429.48	0.19	1.67	0.00	130.39	560.00
7930.000	1489.00	433.93	4.45	0.09	0.00	230.43	560.00
8900.000	534.00	433.02	0.00	4.72	0.00	177.95	970.00
8900.000	980.00	434.17	1.14	4.88	0.00	193.63	970.00
8900.000	1098.00	434.42	0.26	4.94	0.00	197.18	970.00
8900.000	1489.00	435.20	0.78	1.27	0.00	207.88	970.00
9000.000	534.00	433.00	0.00	-0.02	0.00	8.00	100.00
* 9000.000	980.00	435.58	2.58	1.42	0.00	8.00	100.00
* 9000.000	1098.00	436.21	0.62	1.76	0.00	8.00	100.00
* 9000.000	1489.00	438.05	1.85	2.85	0.00	8.00	100.00

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SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
9040.000	534.00	437.53	0.00	0.53	0.00	8.00	40.00
9040.000	980.00	440.03	2.50	4.44	0.00	8.00	40.00
9040.000	1098.00	442.37	2.34	6.16	0.00	8.00	40.00
9040.000	1489.00	451.67	9.30	13.62	0.00	294.62	40.00
* 9100.000	551.00	436.40	0.00	-1.13	0.00	217.50	60.00
* 9100.000	1043.00	439.10	2.70	-0.93	0.00	254.61	60.00
* 9100.000	1328.00	440.80	1.70	-1.57	0.00	277.98	60.00
* 9100.000	2236.00	447.60	6.80	-0.07	0.00	440.07	60.00
9220.000	551.00	436.43	0.00	0.03	0.00	217.83	120.00
9220.000	1043.00	439.12	2.70	0.02	0.00	254.92	120.00
9220.000	1328.00	440.82	1.70	0.02	0.00	278.23	120.00
9220.000	2236.00	447.61	6.79	0.01	0.00	440.25	120.00
9530.000	551.00	436.51	0.00	0.08	0.00	394.57	310.00
9530.000	1043.00	439.18	2.67	0.05	0.00	462.19	310.00
9530.000	1328.00	440.86	1.68	0.04	0.00	500.06	310.00
9530.000	2236.00	447.62	6.76	0.01	0.00	677.19	310.00
9620.000	551.00	435.82	0.00	-0.69	0.00	10.00	90.00
9620.000	1043.00	439.19	3.37	0.01	0.00	442.18	90.00
9620.000	1328.00	440.87	1.68	0.01	0.00	479.93	90.00
9620.000	2236.00	447.62	6.75	0.00	0.00	646.07	90.00
* 9660.000	551.00	436.32	0.00	0.50	0.00	10.00	40.00
9660.000	1043.00	440.47	4.15	1.28	0.00	464.27	40.00
9660.000	1328.00	441.12	0.65	0.25	0.00	478.89	40.00
9660.000	2236.00	447.69	6.57	0.06	0.00	637.93	40.00
9720.000	551.00	438.88	0.00	2.56	0.00	435.23	60.00
9720.000	1043.00	440.48	1.60	0.01	0.00	471.18	60.00
9720.000	1328.00	441.13	0.65	0.01	0.00	485.72	60.00
9720.000	2236.00	447.69	6.56	0.00	0.00	648.30	60.00
9900.000	551.00	438.90	0.00	0.02	0.00	435.50	180.00
9900.000	1043.00	440.50	1.60	0.02	0.00	471.57	180.00
9900.000	1328.00	441.15	0.65	0.02	0.00	486.26	180.00
9900.000	2236.00	447.69	6.54	0.01	0.00	648.49	180.00
10300.000	551.00	438.93	0.00	0.04	0.00	206.92	400.00
10300.000	1043.00	440.58	1.64	0.08	0.00	247.59	400.00
10300.000	1328.00	441.24	0.66	0.09	0.00	260.59	400.00
10300.000	2236.00	447.71	6.47	0.02	0.00	387.08	400.00
10500.000	551.00	440.16	0.00	1.22	0.00	112.83	200.00
10500.000	1043.00	441.24	1.08	0.66	0.00	132.48	200.00
10500.000	1328.00	441.82	0.58	0.58	0.00	142.85	200.00
10500.000	2236.00	447.75	5.93	0.04	0.00	249.37	200.00
12040.000	422.00	444.77	0.00	4.61	0.00	274.65	1540.00
12040.000	804.00	445.86	1.09	0.62	0.00	296.53	1540.00
12040.000	1026.00	446.36	0.50	0.54	0.00	306.73	1540.00
12040.000	1738.00	448.80	2.44	1.05	0.00	355.87	1540.00

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SECNO	D	WSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
12210.000	422.00	444.27	0.00	0.50	0.00	8.00	170.00
12210.000	804.00	446.07	1.80	0.21	0.00	366.51	170.00
12210.000	1026.00	446.57	0.50	0.21	0.00	393.33	170.00
12210.000	1738.00	448.91	2.34	0.10	0.00	518.76	170.00
* 12251.000	422.00	446.87	0.00	2.61	0.00	388.59	41.00
* 12251.000	804.00	447.95	1.08	1.88	0.00	446.32	41.00
12251.000	1026.00	448.23	0.28	1.66	0.00	461.56	41.00
12251.000	1738.00	449.26	1.03	0.36	0.00	516.52	41.00
12400.000	422.00	446.91	0.00	0.03	0.00	275.13	149.00
12400.000	804.00	448.00	1.09	0.05	0.00	336.44	149.00
12400.000	1026.00	448.29	0.29	0.06	0.00	352.78	149.00
12400.000	1738.00	449.35	1.05	0.08	0.00	410.18	149.00
12990.000	401.00	447.22	0.00	0.31	0.00	201.08	590.00
12990.000	766.00	448.40	1.18	0.40	0.00	222.38	590.00
12990.000	978.00	448.79	0.39	0.50	0.00	229.47	590.00
12990.000	1658.00	449.99	1.20	0.64	0.00	247.71	590.00

SUMMARY OF ERRORS

CAUTION	SECNO= 90.000	PROFILE= 1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 90.000	PROFILE= 1	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 90.000	PROFILE= 1	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO= 90.000	PROFILE= 2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 90.000	PROFILE= 2	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 90.000	PROFILE= 2	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO= 90.000	PROFILE= 3	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 90.000	PROFILE= 3	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 90.000	PROFILE= 3	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO= 90.000	PROFILE= 4	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 90.000	PROFILE= 4	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 90.000	PROFILE= 4	20 TRIALS ATTEMPTED TO BALANCE WSEL
NOTE	SECNO= 5820.000	PROFILE= 2	WSEL BASED ON X5 CARD
NOTE	SECNO= 5820.000	PROFILE= 3	WSEL BASED ON X5 CARD
NOTE	SECNO= 5820.000	PROFILE= 4	WSEL BASED ON X5 CARD
CAUTION	SECNO= 9000.000	PROFILE= 2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 9000.000	PROFILE= 2	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 9000.000	PROFILE= 2	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO= 9000.000	PROFILE= 3	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 9000.000	PROFILE= 3	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 9000.000	PROFILE= 3	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO= 9000.000	PROFILE= 4	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 9000.000	PROFILE= 4	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 9000.000	PROFILE= 4	20 TRIALS ATTEMPTED TO BALANCE WSEL
NOTE	SECNO= 9100.000	PROFILE= 1	WSEL BASED ON X5 CARD
NOTE	SECNO= 9100.000	PROFILE= 2	WSEL BASED ON X5 CARD
NOTE	SECNO= 9100.000	PROFILE= 3	WSEL BASED ON X5 CARD
NOTE	SECNO= 9100.000	PROFILE= 4	WSEL BASED ON X5 CARD
CAUTION	SECNO= 9660.000	PROFILE= 1	HYDRAULIC JUMP D.S.
CAUTION	SECNO= 12251.000	PROFILE= 1	HYDRAULIC JUMP D.S.
CAUTION	SECNO= 12251.000	PROFILE= 2	HYDRAULIC JUMP D.S.

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3 Oct 78  
*[Signature]*

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 HEC2 RELEASE DATED NOV 76 UPDATED AUG 77  
 ERROR CORR - 01,02  
 MODIFICATION - 50,51,52,53  
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C  
 T1 ORANGE COUNTY FIA STUDY  
 T2 RHODES CREEK  
 T3 100YR NATURAL PROFILE JUL 78 CWF

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	W	WSEI	EQ
	0.	4.	0.	0.	0.000000	0.00	0.0	0.	382.100	0.000
J2	NPROF	TPLT	PREVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	1.000	0.000	-1.000	0.000	0.000	0.000	0.000	0.000	0.000	15.000
J3	VARIABLE CODES FOR SUMMARY PRINTOUT									
	38.000	1.000	3.000	41.000	42.000	5.000	43.000	0.000	38.000	1.000
	53.000	21.000	22.000	54.000	4.000	0.000	200.000	0.000	0.000	0.000
NC	0.100	0.100	0.050	0.100	0.300	0.000	0.000	0.000	0.000	0.000
QT	5.000	4700.000	5200.000	5340.000	6050.000	5340.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	10.400	0.000	0.000	0.000	0.000

END RIVER VALLEY SECTION

X1	91330.000	14.000	1000.000	1088.000	0.000	0.000	0.000	0.000	0.000	0.000
GR	410.000	770.000	400.000	840.000	390.000	925.000	381.000	970.000	380.500	1000.000
GR	374.000	1005.000	372.500	1015.000	371.900	1044.000	372.500	1073.000	374.000	1083.000
GR	380.500	1088.000	381.000	1140.000	390.000	1170.000	410.000	1190.000	0.000	0.000
QT	5.000	420.000	1416.000	1536.000	2250.000	1536.000	0.000	0.000	0.000	0.000
NC	0.110	0.110	0.055	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	996.800	1055.400	0.000	0.000

ORH-1 VALLEY

X1	90.000	13.000	1000.000	1022.000	370.000	370.000	370.000	0.000	0.000	0.000
GR	403.200	677.000	395.100	777.000	394.700	877.000	394.400	977.000	394.400	987.000
GR	381.800	1000.000	379.200	1003.000	378.800	1011.000	380.000	1019.000	382.000	1022.000
GR	383.700	1049.000	389.100	1077.000	401.400	1116.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	996.200	1058.300	0.000	0.000

X1	150.000	0.000	0.000	0.000	60.000	60.000	60.000	0.000	1.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	996.300	1057.700	0.000	0.000

X1	200.000	0.000	0.000	0.000	50.000	50.000	50.000	0.000	0.800	0.000
NC	0.120	0.120	0.060	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	995.300	1051.500	0.000	0.000

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X1	250.000	10.000	1000.000	1024.000	50.000	50.000	50.000	0.000	0.000	0.000
GR	404.500	695.000	396.800	790.000	396.500	987.000	383.700	1000.000	381.700	1003.000
GR	381.400	1011.000	382.100	1021.000	384.000	1024.000	384.500	1040.000	403.000	1095.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	995.600	1050.400	0.000	0.000
X1	300.000	0.000	0.000	0.000	50.000	50.000	50.000	0.000	0.800	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	996.500	1036.900	0.000	0.000
ORH-2 VALLEY										
X1	350.000	11.000	1000.000	1026.000	50.000	50.000	50.000	0.000	0.000	0.000
GR	406.000	700.000	398.000	800.000	397.800	980.000	397.800	990.000	384.600	1000.000
GR	383.300	1003.000	383.000	1013.000	383.400	1023.000	385.400	1020.000	404.500	1080.000
GR	406.300	1084.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	985.000	1110.000	0.000	0.000
ORH-3 VALLEY										
X1	1640.000	13.000	1000.000	1022.000	1290.000	1290.000	1290.000	0.000	0.000	0.000
GR	416.600	875.000	412.800	936.000	397.500	978.000	396.900	1000.000	394.100	1002.000
GR	393.800	1011.000	393.900	1020.000	395.800	1022.000	397.700	1075.000	398.000	1175.000
GR	398.000	1235.000	406.400	1275.000	416.400	1313.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	905.000	1035.000	0.000	0.000
ORH-4 VALLEY										
X1	2000.000	14.000	1000.000	1018.000	360.000	360.000	360.000	0.000	0.000	0.000
GR	421.300	698.000	405.200	785.000	404.300	798.000	398.600	898.000	398.800	935.000
GR	398.600	940.000	398.300	1000.000	396.900	1003.000	396.900	1009.000	397.000	1015.000
GR	399.200	1018.000	400.000	1062.000	407.500	1098.000	420.600	1155.000	0.000	0.000
ET	5.000	818.000	1416.000	1536.000	2258.000	1536.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	910.000	1055.000	0.000	0.000
X1	2200.000	0.000	0.000	0.000	200.000	200.000	200.000	0.000	1.100	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	945.000	1055.000	0.000	0.000
X1	2400.000	8.000	1000.000	1017.000	200.000	200.000	200.000	0.000	0.000	0.000
GR	423.500	710.000	402.000	937.000	402.000	1000.000	399.200	1002.000	399.200	1012.000
GR	402.000	1017.000	403.500	1080.000	422.500	1180.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	985.000	1045.000	0.000	0.000
ORH-5 VALLEY										
X1	4110.000	10.000	1000.000	1016.000	1710.000	1710.000	1710.000	0.000	0.000	0.000
GR	433.700	871.000	417.200	971.000	412.400	1000.000	408.800	1002.000	408.800	1008.000
GR	409.100	1014.000	412.000	1016.000	414.100	1071.000	428.100	1171.000	432.500	1204.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	985.000	1065.000	0.000	0.000
X1	4350.000	0.000	0.000	0.000	240.000	240.000	240.000	0.000	0.600	0.000
NC	0.000	0.000	0.000	0.400	0.600	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	999.000	1033.000	0.000	0.000
X1	4450.000	12.000	1000.000	1036.000	100.000	100.000	100.000	0.000	0.000	0.000
GR	444.400	724.000	436.300	824.000	423.800	924.000	420.500	944.000	421.600	1000.000
GR	412.400	1008.000	411.800	1018.000	412.300	1028.000	422.500	1036.000	422.500	1104.000
GR	422.300	1124.000	437.800	1198.000	0.000	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	999.000	1035.000	0.000	0.000

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ORH-6 DAM

X1	4470.000	0.000	0.000	0.000	20.000	20.000	20.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	985.000	1075.000	0.000	0.000

X1	4550.000	10.000	1000.000	1016.000	80.000	80.000	80.000	0.000	1.100	0.000
GR	433.700	871.000	417.200	971.000	412.400	1000.000	408.800	1002.000	408.800	1008.000
GR	409.100	1014.000	412.000	1016.000	414.100	1071.000	428.100	1171.000	432.300	1204.000
NC	0.000	0.000	0.000	0.100	0.300	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	985.000	1075.000	0.000	0.000

X1	4700.000	0.000	0.000	0.000	150.000	150.000	150.000	0.000	0.400	0.000
NC	0.000	0.000	0.000	0.500	0.700	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	50.200	0.000	0.000	0.000	0.000

X1	4800.000	11.000	1000.000	1021.000	100.000	100.000	100.000	0.000	-4.300	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	428.000	428.000	0.000
GR	444.300	800.000	440.100	840.000	426.800	940.000	417.400	1000.000	415.100	1000.100
GR	415.100	1020.900	417.900	1021.000	419.000	1040.000	427.200	1140.000	437.400	1240.000
GR	438.900	1281.000	444.300	1400.000	0.000	0.000	0.000	0.000	0.000	0.000
SB	1.050	1.970	2.800	0.000	21.000	1.000	160.000	0.000	412.100	410.800

ORH-7 & ORH-8 US70W & I-85 CULVERT

X1	5200.000	0.000	0.000	0.000	400.000	400.000	400.000	0.000	1.300	0.000
X2	0.000	0.000	1.000	410.100	436.300	0.000	0.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	436.500	436.300	0.000
BT	9.000	758.000	440.100	0.000	858.000	438.400	0.000	958.000	436.800	0.000
BT	1010.000	436.500	0.000	1058.000	436.300	0.000	1158.000	436.900	0.000	1258.000
BT	438.100	0.000	1358.000	439.200	0.000	1458.000	440.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	985.000	1060.000	0.000	0.000

X1	5300.000	12.000	1000.000	1020.000	100.000	100.000	100.000	0.000	-1.900	0.000
GR	440.100	840.000	426.800	940.000	417.400	1000.000	415.200	1006.000	415.100	1009.000
GR	415.300	1012.000	417.900	1020.000	419.000	1040.000	427.200	1140.000	437.400	1240.000
GR	438.900	1281.000	444.300	1400.000	0.000	0.000	0.000	0.000	0.000	0.000
NC	0.000	0.000	0.000	0.100	0.300	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	985.000	1060.000	0.000	0.000

ORH-9 VALLEY

X1	5480.000	0.000	0.000	0.000	180.000	180.000	180.000	0.000	1.900	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	985.000	1060.000	0.000	0.000

X1	5580.000	0.000	0.000	0.000	100.000	100.000	100.000	0.000	0.200	0.000
NC	0.000	0.000	0.000	0.500	0.700	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	50.200	0.000	0.000	0.000	0.000

X1	5696.000	19.000	1000.000	1021.000	116.000	116.000	116.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	431.000	431.000	0.000
GR	440.300	522.000	434.900	622.000	430.900	722.000	427.600	822.000	420.900	871.000
GR	420.400	922.000	420.000	943.000	418.800	1000.000	415.300	1000.100	415.300	1020.900
GR	419.400	1021.000	420.200	1062.000	421.900	1109.000	425.400	1122.000	436.400	1222.000
GR	438.100	1322.000	438.600	1422.000	440.300	1522.000	441.100	1531.000	0.000	0.000
SB	1.050	1.340	2.800	0.000	21.000	1.000	160.000	0.000	415.700	415.300

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ORH-10 US70E

X1	5784.000	0.000	0.000	0.000	88.000	88.000	88.000	0.000	0.400	0.000
X2	0.000	70.000	441.000	423.700	438.600	0.000	0.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	438.600	438.600	0.000
BT	9.000	507.000	441.000	0.000	626.000	439.600	0.000	726.000	439.000	0.000
BT	826.000	438.700	0.000	1010.000	438.600	0.000	1126.000	438.800	0.000	1226.000
BT	439.600	0.000	1326.000	440.100	0.000	1526.000	441.300	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	880.000	1085.000	0.000	0.000

X1	5820.000	19.000	1000.000	1022.000	36.000	336.000	36.000	0.000	0.000	0.000
X5	4.000	0.000	425.900	426.800	433.700	427.800	0.000	0.000	0.000	0.000
GR	440.300	522.000	434.900	622.000	430.900	722.000	427.600	822.000	420.900	871.000
GR	420.400	922.000	420.000	943.000	418.800	1000.000	416.100	1003.000	416.100	1007.000
GR	419.400	1022.000	420.200	1062.000	421.900	1109.000	425.400	1122.000	436.400	1222.000
GR	438.100	1322.000	438.600	1422.000	440.300	1522.000	441.100	1531.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	880.000	1085.000	0.000	0.000

Y1	5860.000	22.000	1000.000	1020.000	40.000	40.000	40.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	424.200	424.200	0.000
GR	440.300	522.000	434.900	622.000	430.900	722.000	427.600	822.000	420.900	871.000
GR	420.400	922.000	420.000	943.000	418.800	1000.000	417.600	1000.100	416.300	1005.000
GR	416.100	1010.000	416.300	1015.000	417.100	1019.900	419.400	1020.000	420.200	1062.000
GR	421.900	1109.000	425.400	1122.000	436.400	1222.000	438.100	1322.000	438.600	1422.000
GR	440.300	1522.000	441.100	1531.000	0.000	0.000	0.000	0.000	0.000	0.000
SB	0.000	1.600	2.800	0.000	17.300	0.100	133.000	0.250	416.200	416.100
ET	0.000	0.000	0.000	0.000	0.000	7.100	880.000	1085.000	0.000	0.000

ORH-11 SR 1812

X1	5880.000	0.000	0.000	0.000	20.000	20.000	20.000	0.000	0.100	0.000
X2	0.000	0.000	1.000	423.500	425.000	0.000	0.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	425.000	425.000	0.000
BT	13.000	507.000	441.000	0.000	622.000	434.900	0.000	722.000	430.900	0.000
BT	822.000	427.600	0.000	900.000	425.200	0.000	1000.000	425.000	0.000	1020.000
BT	425.000	0.000	1100.000	427.100	0.000	1190.000	433.000	0.000	1222.000	436.400
BT	0.000	1322.000	438.100	0.000	1422.000	438.600	0.000	1522.000	440.300	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	880.000	1085.000	0.000	0.000

ORH-12 VALLEY

X1	5970.000	19.000	1000.000	1022.000	90.000	90.000	90.000	0.000	0.000	0.000
GR	441.000	507.000	434.900	622.000	430.900	722.000	427.600	822.000	420.900	871.000
GR	420.400	922.000	420.000	943.000	418.800	1000.000	416.100	1003.000	416.100	1007.000
GR	419.400	1022.000	420.200	1062.000	421.900	1109.000	425.400	1122.000	436.400	1222.000
GR	438.100	1322.000	438.600	1422.000	440.300	1522.000	441.100	1531.000	0.000	0.000
NC	0.000	0.000	0.000	0.100	0.300	0.000	0.000	0.000	0.000	0.000
QT	5.000	534.000	980.000	1098.000	1469.000	1098.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	825.000	1069.000	0.000	0.000

X1	6970.000	12.000	1000.000	1015.000	1000.000	1000.000	1000.000	0.000	0.000	0.000
GR	450.000	320.000	447.000	590.000	440.000	700.000	425.000	750.000	423.000	1000.000
GR	420.000	1003.000	420.000	1012.000	423.000	1015.000	425.000	1130.000	430.000	1220.000
GR	440.000	1400.000	450.000	1700.000	0.000	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	900.000	1039.000	0.000	0.000

X1	7370.000	10.000	1000.000	1015.000	400.000	400.000	400.000	0.000	0.000	0.000
GR	440.000	720.000	430.000	820.000	425.000	870.000	423.700	1000.000	420.700	1003.000
GR	420.700	1012.000	423.700	1015.000	425.000	1070.000	430.000	1110.000	440.000	1190.000

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X1	7930.000	11.000	1000.000	1015.000	560.000	560.000	560.000	0.000	0.000	0.000
GR	450.000	470.000	440.000	830.000	430.000	960.000	426.600	1000.000	423.600	1003.000
GR	423.600	1012.000	426.600	1115.000	427.000	1080.000	430.000	1100.000	440.000	1200.000
GR	450.000	1360.000	0.000	1.000	0.000	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	950.000	1070.000	0.000	0.000

X1	8900.000	15.000	1000.000	1009.000	970.000	970.000	970.000	0.000	-0.500	0.000
GR	452.900	687.000	448.300	787.000	445.400	860.000	441.200	887.000	431.100	938.000
GR	430.400	987.000	431.100	1000.000	428.000	1002.000	427.800	1005.000	428.100	1007.000
GR	431.200	1009.000	431.600	1087.000	443.100	1187.000	450.900	1287.000	452.000	1296.000
NC	0.000	0.000	0.000	0.500	0.700	0.000	0.000	0.000	0.000	0.000

X1	9000.000	15.000	1000.000	1008.000	100.000	100.000	100.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	444.200	444.200	0.000
GR	454.800	650.000	445.400	860.000	441.200	887.000	431.100	938.000	430.400	987.000
GR	431.100	1000.000	427.800	1000.100	427.800	1002.000	427.800	1004.000	427.800	1006.000
GR	427.800	1007.900	431.200	1008.000	431.600	1087.000	443.100	1187.000	452.100	1300.000
SB	0.000	1.600	2.800	0.000	7.100	0.000	63.000	0.000	427.800	427.800

DRH-13 SOUTHERN RR

X1	9040.000	0.000	0.000	0.000	40.000	40.000	40.000	0.000	0.000	0.000
X2	0.000	0.000	1.000	436.700	451.500	0.000	0.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	451.700	451.500	0.000
BT	15.000	650.000	454.800	454.800	860.000	452.700	445.400	887.000	452.500	441.200
BT	938.000	452.100	431.100	987.000	451.800	430.400	1000.000	451.700	431.100	1000.100
BT	451.700	432.800	1002.000	451.700	435.600	1004.000	451.700	436.700	1006.000	451.700
BT	435.600	1007.900	451.700	432.800	1008.000	451.700	431.200	1087.000	451.500	431.600
BT	1187.000	451.500	443.100	1300.000	452.100	452.100	0.000	0.000	0.000	0.000
QT	5.000	551.000	1043.000	1328.000	2236.000	1328.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	935.000	1100.000	0.000	0.000

X1	9100.000	15.000	1000.000	1009.000	60.000	60.000	60.000	0.000	0.000	0.000
X5	5.000	436.400	439.100	440.800	447.600	441.800	0.000	0.000	0.000	0.000
GR	452.900	687.000	448.300	787.000	445.400	860.000	441.200	887.000	431.100	938.000
GR	430.400	987.000	431.100	1000.000	428.000	1002.000	427.800	1005.000	428.100	1007.000
GR	431.200	1009.000	431.600	1087.000	443.100	1187.000	450.900	1287.000	452.000	1296.000
NC	0.000	0.000	0.000	0.100	0.300	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	907.000	1127.000	0.000	0.000

DRH-14 VALLEY

X1	9220.000	0.000	0.000	0.000	120.000	120.000	120.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	860.000	1160.000	0.000	0.000

X1	9530.000	15.000	1000.000	1008.000	310.000	310.000	310.000	0.000	-0.900	0.000
GR	453.300	627.000	445.800	727.000	436.700	827.000	433.800	927.000	433.500	1000.000
GR	432.000	1002.000	430.900	1004.000	431.300	1006.000	433.800	1008.000	433.300	1027.000
GR	434.100	1127.000	437.900	1227.000	446.600	1327.000	451.300	1427.000	454.300	1493.000
NC	0.000	0.000	0.000	0.400	0.600	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	860.000	1160.000	0.000	0.000

X1	9620.000	14.000	1000.000	1010.000	90.000	90.000	90.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	438.100	438.200	0.000
GR	453.300	627.000	445.800	727.000	436.700	827.000	433.800	927.000	433.500	1000.000
GR	430.900	1000.100	430.900	1009.900	433.800	1010.000	433.300	1027.000	434.100	1127.000

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ET 0.000 0.000 0.000 0.000 40.000 40.000 40.000 0.000 430.000 430.000

ORH-15 SR 1710

X1	9660.000	0.000	0.000	0.000	40.000	40.000	40.000	0.000	0.300	0.000
X2	0.000	0.000	1.000	436.900	439.200	0.000	0.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	439.200	439.300	0.000
BT	13.000	627.000	453.300	10.000	727.000	445.800	10.000	762.000	442.400	0.000
BT	829.000	440.300	0.000	929.000	439.200	0.000	1000.000	439.300	436.900	1010.000
BT	439.300	436.900	1029.000	439.500	0.000	1129.000	440.700	0.000	1229.000	443.200
BT	0.000	1329.000	446.800	0.000	1427.000	451.300	0.000	1493.000	454.300	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	863.000	1170.000	0.000	0.000

X1	9720.000	15.000	1000.000	1008.000	60.000	60.000	60.000	0.000	0.000	0.000
GR	453.300	627.000	445.800	727.000	436.700	827.000	433.800	927.000	433.500	1000.000
GR	432.000	1002.000	430.900	1004.000	431.300	1006.000	433.800	1008.000	433.300	1027.000
GR	434.100	1127.000	437.900	1227.000	446.600	1327.000	451.300	1427.000	454.300	1493.000
NC	0.000	0.000	0.000	0.100	0.300	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	863.000	1170.000	0.000	0.000

ORH-16 VALLEY

X1	9900.000	0.000	0.000	0.000	180.000	180.000	180.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	935.000	1080.000	0.000	0.000

X1	10300.000	11.000	1000.000	1009.000	400.000	400.000	400.000	0.000	0.000	0.000
GR	460.000	700.000	437.500	920.000	436.900	1000.000	433.900	1003.000	432.900	1005.000
GR	433.300	1007.000	436.900	1009.000	437.000	1050.000	439.300	1125.000	449.000	1220.000
GR	458.000	1360.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	960.000	1070.000	0.000	0.000

X1	10500.000	11.000	1000.000	1010.000	200.000	200.000	200.000	0.000	0.000	0.000
GR	460.000	770.000	450.000	870.000	440.000	960.000	437.000	1000.000	434.900	1002.000
GR	434.000	1005.000	434.300	1000.000	437.000	1010.000	440.000	1070.000	450.000	1160.000
GR	460.000	1290.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
QT	5.000	422.000	804.000	1026.000	1738.000	1026.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	9.400	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	855.000	1030.000	0.000	0.000

X1	12040.000	10.000	1000.000	1012.000	1540.000	1540.000	1540.000	0.000	0.000	0.000
GR	470.000	290.000	460.000	580.000	450.000	700.000	444.000	770.000	442.000	1000.000
GR	438.900	1002.000	438.900	1010.000	442.000	1012.000	450.000	1080.000	463.000	1160.000
NC	0.000	0.000	0.000	0.200	0.400	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	790.000	1030.000	0.000	0.000

X1	12210.000	8.000	1000.000	1008.000	170.000	170.000	170.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	445.700	445.700	0.000
GR	460.000	58.000	441.000	770.000	442.000	1000.000	439.500	1000.100	439.500	1007.900
GR	442.000	1008.000	450.000	1080.000	460.000	1160.000	0.000	0.000	0.000	0.000
SB	0.000	1.250	2.800	0.000	7.600	0.100	36.000	0.000	439.900	439.500
ET	0.000	0.000	0.000	0.000	0.000	7.100	970.000	1033.000	0.000	0.000

ORH-17 SR 1713

X1	12251.000	0.000	0.000	0.000	41.000	41.000	41.000	0.000	0.400	0.000
X2	0.000	0.000	1.000	444.300	446.800	0.000	0.000	0.000	0.000	0.000

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BT	16,000	580,000	460,000	0,000	670,000	452,600	0,000	778,000	449,300	0,000
BT	878,000	447,400	0,000	978,000	446,900	0,000	1000,000	446,800	444,300	1008,000
BT	446,800	444,300	1058,000	447,200	0,000	1080,000	450,000	0,000	1160,000	460,000
BT	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000
ET	0,000	0,000	0,000	0,000	0,000	7,100	917,000	1033,000	0,000	0,000

ORH-18 VALLEY

X1	12400,000	15,000	1000,000	1012,000	149,000	149,000	149,000	0,000	0,000	0,000
GR	460,200	607,000	455,800	707,000	449,200	807,000	444,500	907,000	442,200	1000,000
GR	440,000	1002,000	439,800	1006,000	439,800	1010,000	442,600	1012,000	446,200	1107,000
GR	449,100	1207,000	452,100	1307,000	455,600	1407,000	459,600	1507,000	461,500	1540,000
NC	0,000	0,000	0,000	0,100	0,300	0,000	0,000	0,000	0,000	0,000
UT	5,000	801,000	766,000	978,000	1658,000	978,000	0,000	0,000	0,000	0,000
ET	0,000	0,000	0,000	0,000	0,000	7,100	935,000	1055,000	0,000	0,000

ORH-19 VALLEY

X1	12990,000	15,000	1000,000	1011,000	590,000	590,000	590,000	0,000	0,000	0,000
GR	464,400	689,000	458,800	789,000	451,900	876,000	448,800	889,000	445,700	911,000
GR	443,900	989,000	443,900	1000,000	440,600	1002,000	440,200	1005,000	440,400	1008,000
GR	444,000	1011,000	446,100	1089,000	455,200	1189,000	461,200	1289,000	464,800	1380,000
EJ	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000

\*\*\*\*\*  
 HEC2 RELEASE DATED NOV 76 UPDATED AUG 77  
 ERROR CORR - 01,02  
 MODIFICATION - 50,51,52,53  
 \*\*\*\*\*

T1 ORANGE COUNTY FIA STUDY  
 T2 RHODES CREEK  
 T3 100YR FLOODWAY PROFILE (JUL 78) CWF

J1	ICHECK	IND	NINV	IDIR	STRT	METRIC	HVINS	U	WSEL	FO
	-10.	6.	0.	0.	0.000000	0.00	0.0	0.	383.100	0.000
J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLOC	TBW	CHNIM	ITRACE
	15.000	0.000	-1.000	0.000	0.000	0.000	0.000	0.000	0.000	15.000

\*PROF 2

CCHV= 0.100 CEHV= 0.300  
 \*SECNO 91330.000  
 2800 NAT Q1= 1006.68 WSEL= 382.10 ENC Q1= 1173.50 WSEL= 383.10 RATIO= -0.1657  
 NAT W1= 1227 RATIOS LOB,CH,ROB= 0.0165 0.0565 0.0271 WSEL= 383.10

SECNO	DEPTH	CWSEL	CRINS	WSELK	FG	HV	HL	QLOSS	BANK ELEV
0	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3470 ENCROACHMENT STATIONS= 1000.0 1088.0 TYPE= 4 TARGET= 0.044

END RIVER VALLEY SECTION

91330.00	11.20	383.10	0.00	382.10	383.66	0.56	0.00	0.00	380.50
5340.	0.	5340.	0.	0.	898.	0.	0.	0.	380.50
0.00	0.00	6.02	0.00	0.100	0.050	0.100	0.000	571.90	1000.00
0.002230	0.	0.	0.	0	0	0	0.00	88.00	1088.00

FLOW DISTRIBUTION FOR SECNO= 91330.00 WSEL= 383.10

STA= 1000. 1088.  
 PER Q= 100.0  
 AREA= 887.7  
 VEL= 6.0

\*SECNO 90.000

3301 HV CHANGED MORE THAN HVINS

SECNO	DEPTH	CWSEL	CRINS	WSELK	FG	HV	HL	QLOSS	BANK ELEV
0	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3685 20 TRIALS ATTEMPTED WSEL,CWSEL  
 3693 PROBABLE MINIMUM SPECIFIC ENERGY

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\*\*\*\*\*  
 HEC2 RELEASE DATED NOV 76 UPDATED AUG 77  
 ERROR CORR - 01,02  
 MODIFICATION - 50,51,52,53  
 \*\*\*\*\*

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

R NATURAL PROFILE JUL 7

SUMMARY PRINTOUT

SECNO	CWSEL	EG	ELLC	ELMIN	10K*8	Q
91330.000	382.10	382.75	0.00	371.90	28.14	5340.00
91330.000	383.10	383.66	0.00	371.90	22.30	5340.00
* 90.000	384.93	386.73	0.00	378.80	213.85	1536.00
* 90.000	384.96	386.73	0.00	378.80	210.03	1536.00
150.000	386.49	387.81	0.00	379.80	143.17	1536.00
150.000	386.47	387.81	0.00	379.80	144.99	1536.00
200.000	387.17	388.58	0.00	380.60	154.61	1536.00
200.000	387.17	388.58	0.00	380.60	155.22	1536.00
250.000	388.35	389.25	0.00	381.40	100.42	1536.00
250.000	388.35	389.25	0.00	381.40	100.45	1536.00
300.000	388.81	389.85	0.00	382.20	123.54	1536.00
300.000	388.81	389.84	0.00	382.20	123.55	1536.00
350.000	389.23	390.64	0.00	383.00	153.56	1536.00
350.000	389.23	390.64	0.00	383.00	153.60	1536.00
1640.000	400.05	400.23	0.00	393.80	42.82	1536.00
1640.000	400.70	401.00	0.00	393.80	48.37	1536.00
2000.000	401.92	402.09	0.00	393.90	63.87	1536.00
2000.000	402.65	402.86	0.00	393.90	55.35	1536.00
2200.000	403.14	403.50	0.00	393.00	56.76	1536.00
2200.000	403.77	404.00	0.00	393.00	57.95	1536.00
2400.000	404.65	405.17	0.00	393.20	155.82	1536.00
2400.000	405.22	405.92	0.00	393.20	152.74	1536.00
4110.000	417.63	417.94	0.00	403.80	43.51	1536.00
4110.000	418.56	418.99	0.00	403.80	45.61	1536.00
4350.000	418.62	418.87	0.00	403.40	34.54	1536.00
4350.000	419.60	419.85	0.00	403.40	27.61	1536.00

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SECNO	CHSEL	EG	ELLC	EIMIN	10K+S	0
4450.000	418.88	420.13	0.00	411.80	169.90	1536.00
4450.000	419.82	420.73	0.00	411.80	108.09	1536.00
4470.000	419.51	420.51	0.00	411.80	125.01	1536.00
4470.000	420.16	420.97	0.00	411.80	93.38	1536.00
4550.000	421.00	421.11	0.00	409.90	12.62	1536.00
4550.000	421.34	421.48	0.00	409.90	14.10	1536.00
4700.000	421.19	421.31	0.00	410.30	13.97	1536.00
4700.000	421.56	421.70	0.00	410.30	15.18	1536.00
4800.000	421.26	422.02	0.00	410.80	66.60	1536.00
4800.000	421.66	422.36	0.00	410.80	59.80	1536.00
5200.000	423.43	424.08	410.10	412.10	52.70	1536.00
5200.000	423.87	424.48	410.10	412.10	47.20	1536.00
5300.000	424.44	424.55	0.00	413.20	9.71	1536.00
5300.000	424.74	424.91	0.00	413.20	13.07	1536.00
5480.000	424.62	424.84	0.00	415.10	23.15	1536.00
5480.000	424.99	425.26	0.00	415.10	24.85	1536.00
5580.000	424.86	425.07	0.00	415.30	22.76	1536.00
5580.000	425.24	425.50	0.00	415.30	24.33	1536.00
5674.000	425.12	425.98	0.00	415.30	84.54	1536.00
5696.000	425.54	426.33	0.00	415.30	74.96	1536.00
5784.000	426.29	427.03	423.70	415.70	67.55	1536.00
5784.000	426.78	427.45	423.70	415.70	59.29	1536.00
* 5820.000	426.80	426.82	0.00	416.10	3.01	1536.00
* 5820.000	427.80	427.82	0.00	416.10	2.74	1536.00
5860.000	426.81	426.83	0.00	416.10	2.97	1536.00
5860.000	427.81	427.83	0.00	416.10	2.72	1536.00
5880.000	427.09	427.11	423.50	416.20	2.71	1536.00
5880.000	427.93	427.96	423.50	416.20	2.69	1536.00
5970.000	427.12	427.13	0.00	416.10	2.58	1536.00
5970.000	427.96	427.98	0.00	416.10	2.57	1536.00
6970.000	427.47	427.48	0.00	420.00	5.85	1098.00
6970.000	428.30	428.33	0.00	420.00	5.69	1098.00
7370.000	427.81	427.86	0.00	420.70	16.79	1098.00
7370.000	428.62	428.70	0.00	420.70	16.44	1098.00
7930.000	429.48	429.91	0.00	423.60	107.60	1098.00
7930.000	430.16	430.68	0.00	423.60	96.31	1098.00
8900.000	434.42	434.48	0.00	427.30	26.04	1098.00
8900.000	435.13	435.21	0.00	427.30	27.13	1098.00

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SECNO	CHSEL	EG	FLIC	ELMIN	10K*8	Q
* 9000.000	436.21	440.39	0.00	427.80	854.20	1098.00
* 9000.000	436.18	440.39	0.00	427.80	862.88	1098.00
9040.000	442.37	443.75	436.70	427.80	195.36	1098.00
9040.000	442.33	443.72	436.70	427.80	196.68	1098.00
* 9100.000	440.80	440.81	0.00	427.80	1.49	1328.00
* 9100.000	441.80	441.81	0.00	427.80	1.50	1328.00
9220.000	440.82	440.83	0.00	427.80	1.48	1328.00
9220.000	441.82	441.83	0.00	427.80	1.08	1328.00
9530.000	440.86	440.86	0.00	430.00	0.88	1328.00
9530.000	441.85	441.86	0.00	430.00	0.91	1328.00
9620.000	440.87	440.87	0.00	430.90	1.36	1328.00
9620.000	441.86	441.87	0.00	430.90	1.26	1328.00
9660.000	441.12	441.12	436.90	431.20	1.40	1328.00
9660.000	441.97	441.97	436.90	431.20	1.30	1328.00
9720.000	441.13	441.13	0.00	430.90	1.22	1328.00
9720.000	441.97	441.98	0.00	430.90	1.19	1328.00
9900.000	441.15	441.15	0.00	430.90	1.20	1328.00
9900.000	442.00	442.00	0.00	430.90	1.18	1328.00
10300.000	441.24	441.29	0.00	432.90	22.63	1328.00
10300.000	442.07	442.14	0.00	432.90	21.87	1328.00
10500.000	441.82	442.15	0.00	434.00	79.36	1328.00
10500.000	442.59	442.82	0.00	434.00	49.04	1328.00
12040.000	446.36	446.40	0.00	434.90	11.66	1026.00
12040.000	446.75	446.80	0.00	434.90	13.96	1026.00
12210.000	446.57	446.59	0.00	434.50	10.54	1026.00
12210.000	446.98	447.00	0.00	434.50	9.64	1026.00
12251.000	448.23	448.24	444.30	434.90	3.55	1026.00
12251.000	448.06	448.28	444.30	434.90	55.88	1026.00
12400.000	448.29	448.32	0.00	434.80	6.54	1026.00
12400.000	448.59	448.65	0.00	434.80	12.34	1026.00
12990.000	448.79	448.83	0.00	440.20	12.13	978.00
12990.000	449.38	449.44	0.00	440.20	14.58	978.00

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SUMMARY PRINTOUT

SECNO	CWSEL	SSTA	STCHL	STCHR	ENDST	TOPWID
91330.000	382.10	964.50	1000.00	1086.00	1143.67	179.17
91330.000	383.10	1000.00	1000.00	1088.00	1088.00	88.00
* 90.000	384.93	996.77	1000.00	1022.00	1055.40	58.63
* 90.000	384.96	996.80	1000.00	1022.00	1055.40	58.60
150.000	386.49	996.20	1000.00	1022.00	1058.26	62.06
150.000	386.47	996.22	1000.00	1022.00	1058.16	61.94
200.000	387.17	996.31	1000.00	1022.00	1057.69	61.38
200.000	387.17	996.32	1000.00	1022.00	1057.66	61.34
250.000	388.35	995.28	1000.00	1024.00	1051.45	56.17
250.000	388.35	995.30	1000.00	1024.00	1051.44	56.14
300.000	388.81	995.62	1000.00	1024.00	1050.43	54.81
300.000	388.81	995.62	1000.00	1024.00	1050.40	54.78
350.000	389.23	996.49	1000.00	1026.00	1036.84	40.35
350.000	389.23	996.50	1000.00	1026.00	1036.84	40.34
1640.000	400.05	971.02	1000.00	1022.00	1244.72	273.70
1640.000	400.70	985.00	1000.00	1022.00	1110.00	125.00
2000.000	401.92	839.71	1000.00	1018.00	1071.23	231.52
2000.000	402.65	905.00	1000.00	1014.00	1035.00	130.00
2200.000	403.14	837.66	1000.00	1018.00	1071.79	234.13
2200.000	403.77	910.00	1000.00	1014.00	1035.00	125.00
2400.000	404.65	908.95	1000.00	1017.00	1086.09	177.14
2400.000	405.22	945.00	1000.00	1017.00	1035.00	90.00
4110.000	417.63	968.36	1000.00	1014.00	1096.25	127.90
4110.000	418.56	985.00	1000.00	1014.00	1045.00	60.00
4350.000	418.62	966.07	1000.00	1014.00	1098.95	132.88
4350.000	419.60	985.00	1000.00	1014.00	1065.00	80.00
4450.000	418.80	1002.37	1000.00	1034.00	1033.16	30.79
4450.000	419.82	1001.55	1000.00	1034.00	1033.00	31.45
4470.000	419.51	1001.82	1000.00	1034.00	1033.65	31.84
4470.000	420.16	1001.25	1000.00	1034.00	1034.16	32.91
4550.000	421.00	954.63	1000.00	1014.00	1112.44	157.82
4550.000	421.34	985.00	1000.00	1014.00	1035.00	90.00
4700.000	421.19	955.89	1000.00	1014.00	1110.95	155.05
4700.000	421.56	985.00	1000.00	1014.00	1075.00	90.00
4800.000	421.26	1000.00	1000.00	1021.00	1021.00	21.00
4800.000	421.66	1000.00	1000.00	1021.00	1021.00	21.00

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SECNO	CHSEL	SBTA	STCHL	STCHR	ENDST	TOPWID
5200.000	423.43	1000.00	1000.00	1021.00	1021.00	21.00
5200.000	423.87	1000.00	1000.00	1021.00	1021.00	21.00
5300.000	424.44	942.92	1000.00	1020.00	1129.55	186.63
5300.000	424.74	985.00	1000.00	1020.00	1060.00	75.00
5480.000	424.62	953.89	1000.00	1020.00	1108.59	154.70
5480.000	424.99	985.00	1000.00	1020.00	1060.00	75.00
5580.000	424.86	953.69	1000.00	1020.00	1108.96	155.27
5580.000	425.24	985.00	1000.00	1020.00	1060.00	75.00
5696.000	425.12	1000.00	1000.00	1021.00	1021.00	21.00
5696.000	425.54	1000.00	1000.00	1021.00	1021.00	21.00
5784.000	426.29	1000.00	1000.00	1021.00	1021.00	21.00
5784.000	426.78	1000.00	1000.00	1021.00	1021.00	21.00
* 5820.000	426.80	827.85	1000.00	1022.00	1134.73	306.88
* 5820.000	427.80	880.00	1000.00	1022.00	1085.00	205.00
5860.000	426.81	827.76	1000.00	1020.00	1134.84	307.09
5860.000	427.81	880.00	1000.00	1020.00	1085.00	205.00
5880.000	427.09	826.39	1000.00	1020.00	1136.55	310.16
5880.000	427.93	880.00	1000.00	1020.00	1085.00	205.00
5970.000	427.12	825.53	1000.00	1022.00	1137.61	312.08
5970.000	427.96	880.00	1000.00	1022.00	1085.00	205.00
6970.000	427.47	725.35	1000.00	1015.00	1174.37	449.03
6970.000	428.30	825.00	1000.00	1015.00	1069.00	244.00
7370.000	427.81	841.94	1000.00	1015.00	1092.45	250.51
7370.000	428.62	900.00	1000.00	1015.00	1039.00	139.00
7930.000	429.48	966.13	1000.00	1015.00	1096.53	130.39
7930.000	430.16	957.89	1000.00	1015.00	1050.00	92.11
8900.000	434.42	918.70	1000.00	1000.00	1115.89	197.18
8900.000	435.13	950.00	1000.00	1000.00	1070.00	120.00
* 9000.000	436.21	1000.00	1000.00	1000.00	1008.00	8.00
* 9000.000	436.18	1000.00	1000.00	1000.00	1008.00	8.00
9040.000	442.37	1000.00	1000.00	1000.00	1008.00	8.00
9040.000	442.33	1000.00	1000.00	1000.00	1008.00	8.00
* 9100.000	440.80	889.02	1000.00	1000.00	1167.00	277.98
* 9100.000	441.80	935.00	1000.00	1000.00	1100.00	165.00
9220.000	440.82	888.93	1000.00	1000.00	1167.16	278.23
9220.000	441.82	907.00	1000.00	1000.00	1127.00	220.00
9530.000	440.86	771.35	1000.00	1000.00	1271.41	500.06
9530.000	441.85	860.00	1000.00	1000.00	1160.00	300.00

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SECNO	CWSEL	SSTA	STCHL	STCHR	ENDST	TOPWID
9620.000	440.87	781.19	1000.00	1010.00	1261.12	479.93
9620.000	441.86	860.00	1000.00	1010.00	1160.00	300.00
9660.000	441.12	781.70	1000.00	1010.00	1260.59	478.89
9660.000	441.97	860.00	1000.00	1010.00	1170.00	310.00
9720.000	441.13	778.36	1000.00	1008.00	1264.08	485.72
9720.000	441.97	863.00	1000.00	1008.00	1170.00	307.00
9900.000	441.15	778.10	1000.00	1008.00	1264.36	486.26
9900.000	442.00	863.00	1000.00	1008.00	1170.00	307.00
10300.000	441.24	883.42	1000.00	1009.00	1144.01	260.59
10300.000	442.07	935.00	1000.00	1009.00	1080.00	145.00
10500.000	441.82	943.57	1000.00	1010.00	1086.43	142.85
10500.000	442.59	960.00	1000.00	1010.00	1070.00	110.00
12040.000	446.36	742.39	1000.00	1012.00	1049.12	306.73
12040.000	446.75	855.00	1000.00	1012.00	1030.00	175.00
12210.000	446.57	655.78	1000.00	1008.00	1049.10	393.33
12210.000	446.98	790.00	1000.00	1008.00	1030.00	240.00
12251.000	448.23	599.19	1000.00	1008.00	1060.55	461.36
12251.000	448.06	970.00	1000.00	1008.00	1033.00	65.00
12400.000	448.29	826.33	1000.00	1012.00	1179.12	352.78
12400.000	448.59	917.00	1000.00	1012.00	1033.00	116.00
12990.000	448.79	889.08	1000.00	1011.00	1118.55	229.47
12990.000	449.38	935.00	1000.00	1011.00	1055.00	120.00

SUMMARY OF ERRORS

CAUTION SECNO= 90.000 PROFILE= 1 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 90.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 90.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL  
CAUTION SECNO= 90.000 PROFILE= 2 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 90.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 90.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL

NOTE SECNO= 5820.000 PROFILE= 1 WSEL BASED ON X5 CARD  
NOTE SECNO= 5820.000 PROFILE= 2 WSEL BASED ON X5 CARD

CAUTION SECNO= 9000.000 PROFILE= 1 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 9000.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 9000.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL  
CAUTION SECNO= 9000.000 PROFILE= 2 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 9000.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 9000.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL

NOTE SECNO= 9100.000 PROFILE= 1 WSEL BASED ON X5 CARD  
NOTE SECNO= 9100.000 PROFILE= 2 WSEL BASED ON X5 CARD



FLOODWAY DATA, R NATURAL PROFILE JUL 7  
 PROFILE NO. 2

STATION	FLOODWAY			WATER SURFACE ELEVATION		
	WIDTH (FT)	SECTION AREA	MEAN VELOCITY	WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE
91330.000	88.	888.	6.0	383.1	382.1	1.0
95.000	59.	184.	8.4	384.9	384.9	0.0
150.000	62.	214.	7.2	386.5	386.5	0.0
200.000	61.	208.	7.4	387.2	387.2	0.0
250.000	56.	252.	6.1	388.4	388.4	0.0
300.000	55.	233.	6.6	388.8	388.8	0.0
350.000	40.	180.	8.5	389.2	389.2	0.0
1640.000	125.	511.	3.0	400.7	400.0	0.7
2000.000	130.	543.	2.8	402.6	401.9	0.7
2200.000	125.	526.	2.9	403.7	403.1	0.6
2400.000	90.	324.	4.7	405.3	404.7	0.6
4110.000	60.	396.	3.9	418.5	417.6	0.9
4350.000	80.	532.	2.9	419.6	418.6	1.0
4450.000	31.	201.	7.7	419.8	418.9	0.9
4470.000	33.	212.	7.2	420.1	419.5	0.6
4550.000	90.	693.	2.2	421.3	421.0	0.3
4700.000	90.	676.	2.3	421.6	421.2	0.4
4800.000	21.	228.	6.7	421.7	421.3	0.4
5200.000	21.	247.	6.2	423.8	423.4	0.4
5300.000	75.	632.	2.4	424.7	424.4	0.3
5480.000	75.	508.	3.0	425.0	424.6	0.4
5580.000	75.	512.	3.0	425.3	424.9	0.4
5696.000	21.	214.	7.2	425.5	425.1	0.4
5784.000	21.	232.	6.6	426.8	426.3	0.5
5820.000	205.	1654.	0.9	427.8	426.8	1.0
5860.000	205.	1670.	0.9	427.8	426.8	1.0
5880.000	205.	1674.	0.9	427.9	427.1	0.8
5970.000	205.	1687.	0.9	427.9	427.1	0.8
6970.000	244.	1182.	0.9	428.3	427.5	0.8
7370.000	139.	664.	1.7	428.6	427.8	0.8
7430.000	92.	285.	3.9	430.2	429.5	0.7
8900.000	120.	570.	1.9	435.1	434.4	0.7
9000.000	8.	67.	16.5	436.2	436.2	0.0
9040.000	8.	116.	9.5	442.4	442.4	0.0
9100.000	165.	1769.	0.6	441.8	440.8	1.0
9220.000	220.	2171.	0.6	441.8	440.3	1.5
9530.000	300.	2632.	0.5	441.9	440.9	1.0
9620.000	300.	2377.	0.6	441.9	440.9	1.0
9660.000	310.	2381.	0.6	441.9	441.1	0.8
9720.000	307.	2443.	0.5	441.9	441.1	0.8
9900.000	307.	2449.	0.5	441.9	441.1	0.8
10300.000	145.	736.	1.8	442.0	441.2	0.8
10500.000	110.	486.	2.7	442.6	441.8	0.8
12040.000	175.	752.	1.4	446.8	446.4	0.4
12210.000	240.	996.	1.0	447.0	446.6	0.4
12251.000	63.	338.	3.0	448.1	448.2	-0.1
12400.000	116.	662.	1.6	448.6	448.3	0.3
12990.000	120.	625.	1.6	449.4	448.8	0.6