

THIS RUN EXECUTED 11-07-88 09:17:36

.....  
HEC2 RELEASE DATED NOV-76 UPDATED MAY 1984  
ERROR CORR - 01,02,03,04,05,06  
MODIFICATION - 50,51,52,53,54,55,56  
IBM-PC-XT VERSION AUGUST 1985  
.....

CATES

CREEK

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 HEC2 RELEASE DATED NOV 76 UPDATED AUG 77  
 ERROR CORR - 01.02

COCIO

MODIFICATION - 50,51,52,53

NATURALS

C  
 T1 ORANGE CO FIA STUDY  
 T2 CATES CREEK  
 T3 10 YEAR Q MARCH 78 HLJ

J1	ICHECK	IND	NINV	IDIR	STRT	METRIC	HVINS	0	WBEL	FD
	0.	2.	0.	0.	0.000773	0.00	0.0	0.	492,500	0.000

J2	NPROF	IPLT	PKFVS	XSECV	XSECH	FN	ALLUC	10W	CHNIN	ITRALE
	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

	50.000	1.000	3.000	42.000	41.000	4.000	0.000	50.000	1.000	15.000
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	14.000	15.000	55.000	25.000	56.000	0.000	150.000	201.000	0.000	0.000
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NC	0.100	0.100	0.050	0.100	0.300	0.000	0.000	0.000	0.000	0.000
QT	5.000	5760.000	4660.000	5100.000	6810.000	5100.000	0.000	0.000	0.000	0.000

END RIVER VALLEY SECTION

X1	145650.000	13.000	1000.000	1071.000	0.000	0.000	0.000	0.000	0.000	0.000
GR	520.000	300.000	510.000	450.000	500.000	600.000	490.000	950.000	488.000	1000.000
GR	480.500	1005.000	479.000	1035.000	480.500	1066.000	480.500	1071.000	490.000	1080.000
GR	500.000	1090.000	510.000	1100.000	520.000	1180.000	0.000	0.000	0.000	0.000
NC	0.120	0.120	0.060	0.000	0.000	0.000	0.000	0.000	0.000	0.000
QT	5.000	1050.000	1950.000	2470.000	4100.000	2470.000	0.000	0.000	0.000	0.000

OCA-1 VALLEY

X1	300.000	13.000	1000.000	1021.000	760.000	760.000	760.000	0.000	0.000	0.000
GR	513.300	523.000	503.500	625.000	503.000	646.000	500.100	723.000	496.000	823.000
GR	491.200	923.000	489.100	1000.000	484.100	1002.000	484.100	1008.000	484.800	1014.000
GR	486.400	1021.000	489.500	1071.000	511.200	1093.000	0.000	0.000	0.000	0.000

X1	1000.000	10.000	1000.000	1021.000	700.000	700.000	700.000	0.000	0.000	0.000
GR	510.000	250.000	500.000	710.000	490.000	980.000	490.500	1000.000	488.200	1003.000
GR	488.200	1018.000	490.500	1021.000	490.000	1025.000	500.000	1050.000	510.000	1060.000
QT	5.000	950.000	1770.000	2240.000	3730.000	2240.000	0.000	0.000	0.000	0.000

X1	2000.000	11.000	1000.000	1021.000	1000.000	1000.000	1000.000	0.000	0.000	0.000
GR	520.000	350.000	510.000	500.000	501.000	800.000	499.000	970.000	496.500	1000.000
GR	494.000	1003.000	494.000	1021.000	496.500	1021.000	500.000	1070.000	510.000	1160.000
GR	520.000	1400.000	0.000	10.000	0.000	0.000	0.000	0.000	0.000	0.000

X1	2035.000	0.000	0.000	0.000	30.000	30.000	30.000	0.000	0.100	0.000
X1	2050.000	20.000	1008.000	1012.000	10.000	10.000	10.000	0.000	0.000	0.000
GR	520.000	350.000	510.000	500.000	508.000	555.000	504.000	705.000	501.000	800.000
GR	500.000	855.000	499.200	955.000	499.000	970.000	496.300	1008.000	495.500	1008.000
GR	499.300	1009.200	494.300	1010.800	495.700	1012.000	496.300	1012.000	499.000	1055.000
GR	500.000	1070.000	508.500	1155.000	513.300	1255.000	516.100	1355.000	517.700	1455.000
NC	0.000	0.000	0.024	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	2054.000	0.000	0.000	0.000	4.000	4.000	4.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	499.000	499.000	0.000
BT	20.000	350.000	530.000	520.000	500.000	528.000	510.000	555.000	527.300	508.000
BT	705.000	509.700	504.000	800.000	505.000	501.000	855.000	502.300	500.400	955.000
BT	499.800	499.200	970.000	500.000	499.000	1008.000	501.500	496.300	1008.000	501.500
BT	497.100	1009.200	501.500	498.300	1010.800	501.600	496.300	1012.000	501.600	497.100
BT	1012.000	501.600	496.300	1055.000	503.400	499.000	1070.000	504.000	500.000	1155.000
BT	508.500	508.500	1255.000	513.300	513.300	1355.000	516.100	516.100	1455.000	517.700
BT	517.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
UCA-2 SR 1134										
X1	2106.000	20.000	1008.000	1012.000	52.000	52.000	52.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	500.500	500.500	0.000
BT	20.000	350.000	530.000	520.000	500.000	528.000	510.000	555.000	527.300	508.000
BT	705.000	509.700	504.000	800.000	505.000	501.000	855.000	502.300	500.400	955.000
BT	499.800	499.200	970.000	500.000	499.000	1008.000	501.500	497.500	1008.000	501.500
BT	498.300	1009.200	501.500	499.500	1010.800	501.600	499.500	1012.000	501.600	498.300
BT	1012.000	501.600	497.500	1055.000	503.400	499.000	1070.000	504.000	500.000	1155.000
BT	508.500	508.500	1255.000	513.300	513.300	1355.000	516.100	516.100	1455.000	517.700
BT	517.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
GR	520.000	350.000	510.000	500.000	508.000	555.000	504.000	705.000	501.000	800.000
GR	500.400	855.000	499.200	955.000	499.000	970.000	497.500	1008.000	496.700	1008.000
GR	495.500	1009.200	495.500	1010.800	496.700	1012.000	497.500	1012.000	499.000	1055.000
GR	500.000	1070.000	508.500	1155.000	513.300	1255.000	516.100	1355.000	517.700	1455.000
NC	0.000	0.000	0.060	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	2115.000	0.000	0.000	0.000	9.000	9.000	9.000	0.000	0.000	0.000
UCA-3 VALLEY										
X1	2200.000	17.000	1000.000	1021.000	85.000	85.000	85.000	0.000	0.000	0.000
GR	523.500	622.000	510.600	722.000	510.100	737.000	502.300	622.000	500.400	636.000
GR	499.800	922.000	499.800	1000.000	497.400	1004.000	497.500	1011.000	497.500	1019.000
GR	499.500	1022.000	505.300	1122.000	511.500	1222.000	514.100	1322.000	516.600	1422.000
GR	517.100	1522.000	517.500	1622.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	2400.000	9.000	1000.000	1021.000	200.000	200.000	200.000	0.000	0.000	0.000
GR	510.000	870.000	503.000	910.000	502.000	1000.000	500.000	1003.000	499.300	1010.000
GR	500.000	1018.000	502.000	1021.000	503.000	1140.000	510.000	1250.000	0.000	0.000
X1	3000.000	10.000	1000.000	1020.000	600.000	600.000	600.000	0.000	0.000	0.000
GR	520.000	760.000	510.000	900.000	508.000	960.000	507.500	1000.000	505.500	1005.000
GR	505.100	1010.000	505.500	1017.000	507.300	1020.000	510.000	1070.000	520.000	1260.000
X1	3500.000	10.000	1000.000	1020.000	500.000	500.000	500.000	0.000	0.000	0.000
GR	530.000	790.000	520.000	870.000	513.000	950.000	512.200	1000.000	510.500	1005.000
GR	510.000	1010.000	510.500	1017.000	512.200	1020.000	520.000	1050.000	530.000	1280.000

X1	3556.000	9.000	1000.000	1020.000	56.000	56.000	56.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	517.500	517.500	0.000
GR	530.000	790.000	520.000	870.000	513.000	950.000	512.200	1000.000	510.400	1000.000
GR	510.400	1020.000	512.500	1020.000	520.000	1050.000	530.000	1280.000	0.000	0.000
SB	1.250	1.500	3.000	0.000	20.500	0.500	140.000	0.000	511.500	510.400

UCA-4 US HWY 70-BUS.

X1	3604.000	10.000	1000.000	1020.000	48.000	48.000	48.000	0.000	0.000	0.000
X2	0.000	0.000	1.000	517.400	519.700	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	521.000	521.000	0.000
BT	10.000	790.000	530.000	0.000	810.000	520.500	0.000	874.000	519.700	0.000
BT	974.000	519.800	0.000	1000.000	520.200	0.000	1020.000	520.500	0.000	1074.000
BT	521.200	0.000	1174.000	524.200	0.000	1274.000	528.200	0.000	1374.000	532.700
BT	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
GR	530.000	770.000	520.000	900.000	514.000	950.000	513.500	1000.000	511.500	1000.000
GR	511.500	1020.000	513.500	1020.000	514.000	1030.000	520.000	1060.000	530.000	1400.000

X1	3625.000	11.000	1000.000	1017.000	21.000	21.000	21.000	0.000	0.000	0.000
GR	530.000	770.000	520.000	900.000	514.000	950.000	513.500	1000.000	512.000	1002.000
GR	511.500	1009.000	512.000	1015.000	513.500	1017.000	514.000	1030.000	520.000	1060.000
GR	530.000	1400.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

UCA-5 VALLEY

X1	3740.000	12.000	1000.000	1017.000	115.000	115.000	115.000	0.000	0.000	0.000
GR	535.600	783.000	526.300	883.000	518.600	983.000	513.400	1000.000	511.500	1003.000
GR	511.200	1008.000	511.800	1014.000	512.900	1017.000	515.200	1083.000	517.000	1147.000
GR	522.700	1183.000	534.100	1283.000	0.000	0.000	0.000	0.000	0.000	0.000

X1	3900.000	11.000	1000.000	1020.000	160.000	160.000	160.000	0.000	0.000	0.000
GR	530.000	860.000	520.000	940.000	516.000	980.000	515.000	1000.000	513.000	1003.000
GR	512.600	1010.000	513.000	1017.000	515.000	1020.000	517.000	1140.000	520.000	1160.000
GR	530.000	1230.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

X1	4000.000	0.000	0.000	0.000	100.000	100.000	100.000	0.000	0.900	0.000
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X1	4100.000	0.000	0.000	0.000	100.000	100.000	100.000	0.000	0.900	0.000
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X1	4450.000	13.000	1000.000	1020.000	550.000	550.000	550.000	0.000	0.000	0.000
GR	550.000	570.000	540.000	730.000	530.000	860.000	521.000	940.000	520.000	1000.000
GR	518.000	1003.000	517.600	1010.000	518.000	1017.000	520.000	1020.000	521.000	1060.000
GR	530.000	1160.000	540.000	1200.000	550.000	1260.000	0.000	0.000	0.000	0.000

X1	5850.000	12.000	1000.000	1020.000	1400.000	1400.000	1400.000	0.000	0.000	0.000
GR	560.000	620.000	550.000	710.000	540.000	866.000	534.000	940.000	533.000	1000.000
GR	530.700	1003.000	530.200	1010.000	530.500	1017.000	533.000	1020.000	540.000	1060.000
GR	550.000	1100.000	560.000	1340.000	0.000	0.000	0.000	0.000	0.000	0.000

X1	5880.000	21.000	1000.000	1030.200	30.000	30.000	30.000	0.000	0.000	0.000
GR	552.600	678.000	545.600	778.000	537.500	878.000	534.000	940.000	533.000	976.000
GR	532.700	1000.000	530.500	1002.200	530.500	1005.200	532.700	1007.400	532.700	1011.400
GR	530.500	1013.600	530.500	1016.000	532.700	1018.800	532.700	1022.800	530.500	1025.000
GR	530.500	1028.000	532.700	1030.200	540.000	1050.000	546.200	1078.000	550.000	1100.000
GR	560.000	1340.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

X1	5887.000	0.000	0.000	0.000	7.000	7.000	7.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	540.000	540.000	0.000
BT	27.000	678.000	552.600	552.600	778.000	545.600	545.600	878.000	543.800	537.300
BT	940.000	543.700	534.000	978.000	543.600	533.000	1000.000	544.100	532.700	1000.000
BT	544.100	535.700	1002.200	544.100	537.900	1005.200	544.200	537.900	1007.400	544.200
BT	535.700	1007.400	544.200	532.700	1011.400	544.300	532.700	1011.400	544.300	535.700
BT	1013.600	544.400	537.900	1016.600	544.400	537.900	1018.800	544.500	535.700	1018.800
BT	544.500	532.700	1022.800	544.600	532.700	1022.800	544.600	535.700	1025.000	544.700
BT	537.900	1028.000	544.800	537.900	1030.200	544.800	535.700	1030.200	544.800	532.700
BT	1030.000	545.300	540.000	1078.000	546.200	546.200	1100.000	550.000	550.000	1340.000
BT	560.000	560.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

OCA-6A UNNAMED ROAD

X1	5972.000	25.000	1000.000	1030.200	85.000	85.000	85.000	0.000	0.000	0.000
X3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	544.500	544.500	0.000
BT	25.000	890.000	552.100	552.100	918.000	545.600	545.600	950.000	545.000	538.200
BT	1000.000	544.100	533.000	1000.000	544.100	536.000	1002.200	544.100	538.200	1005.200
BT	544.000	538.200	1007.400	544.000	536.000	1007.400	544.000	535.000	1011.400	543.900
BT	533.000	1011.400	543.900	536.000	1013.600	543.900	538.200	1016.600	543.800	538.200
BT	1018.800	543.800	536.000	1018.800	543.800	533.000	1022.800	543.800	533.000	1022.800
BT	543.800	536.000	1025.000	543.800	538.200	1028.000	543.800	538.200	1030.200	543.800
BT	536.000	1030.200	543.800	533.000	1090.000	543.600	536.000	1118.000	543.600	538.200
BT	1218.000	546.200	546.200	1277.000	554.200	554.200	0.000	0.000	0.000	0.000
GR	552.100	890.000	545.600	918.000	538.200	950.000	533.000	1000.000	533.000	1000.000
GR	530.800	1002.200	530.800	1005.200	533.000	1007.400	533.000	1007.400	533.000	1011.400
GR	533.000	1011.400	530.800	1013.600	530.800	1016.600	533.000	1018.800	533.000	1018.800
GR	533.000	1022.800	533.000	1022.800	530.800	1025.000	530.800	1028.000	533.000	1030.200
GR	533.000	1030.200	536.000	1090.000	538.200	1118.000	546.200	1218.000	554.200	1277.000
NC	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

X1	5990.000	0.000	0.000	0.000	18.000	18.000	18.000	0.000	0.000	0.000
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OCA-6 VALLEY

X1	6010.000	11.000	1000.000	1022.000	20.000	20.000	20.000	0.000	0.000	0.000
GR	552.100	891.000	538.200	952.000	535.300	991.000	535.000	1000.000	532.100	1005.000
GR	531.900	1012.000	532.200	1021.000	534.200	1022.000	536.000	1091.000	546.300	1191.000
GR	554.200	1277.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

X1	6200.000	13.000	1000.000	1020.000	190.000	190.000	190.000	0.000	0.000	0.000
GR	560.000	760.000	550.000	840.000	540.000	900.000	538.000	920.000	537.000	1000.000
GR	535.000	1003.000	534.000	1010.000	535.000	1017.000	537.000	1020.000	538.000	1045.000
GR	540.000	1060.000	550.000	1140.000	560.000	1260.000	0.000	0.000	0.000	0.000

X1	6250.000	0.000	0.000	0.000	50.000	50.000	50.000	0.000	0.000	0.000
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X1	6400.000	11.000	1000.000	1020.000	150.000	150.000	150.000	0.000	0.000	0.000
GR	560.000	750.000	550.000	820.000	543.000	890.000	540.000	1000.000	537.500	1003.000
GR	537.100	1010.000	537.500	1017.000	540.000	1020.000	543.000	1100.000	550.000	1250.000
GR	560.000	1300.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BT	5.000	910.000	1700.000	2151.000	3580.000	2151.000	0.000	0.000	0.000	0.000

X1	6780.000	11.000	1000.000	1020.000	380.000	380.000	380.000	0.000	0.000	0.000
GR	560.000	750.000	550.000	870.000	547.000	900.000	545.000	1000.000	543.000	1003.000
GR	542.200	1010.000	543.000	1017.000	545.000	1020.000	547.000	1250.000	550.000	1320.000
GR	550.500	1010.000	530.000	1013.000	545.000	1020.000	547.000	1250.000	550.000	1320.000

GR	560,000	1360,000	0,000	0,000	1,000	0,000	0,000	0,000	0,000	0,000
QT	5,000	850,000	1590,000	2010,000	3360,000	2010,000	0,000	0,000	0,000	0,000
X1	7000,000	9,000	1000,000	1020,000	220,000	220,000	220,000	0,000	0,000	0,000
GR	560,000	700,000	550,000	880,000	548,000	1000,000	545,500	1003,000	545,100	1010,000
GR	545,500	1017,000	548,000	1020,000	550,000	1550,000	560,000	1600,000	0,000	0,000
X1	7041,000	8,000	1000,000	1022,000	41,000	41,000	41,000	0,000	0,000	0,000
X3	10,000	0,000	0,000	0,000	0,000	0,000	0,000	575,000	575,000	0,000
GR	560,000	700,000	550,000	880,000	548,000	1000,000	545,700	1000,000	545,700	1022,000
GR	548,000	1022,000	550,000	1550,000	560,000	1600,000	0,000	0,000	0,000	0,000
SB	1,250	1,900	3,000	500,000	22,000	1,000	168,000	0,000	547,600	545,700
UCA-7 INTERSTATE 85										
X1	7436,000	11,000	1000,000	1022,000	395,000	395,000	395,000	0,000	0,000	0,000
X2	0,000	0,000	1,000	555,600	580,900	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	581,000	581,000	0,000
GR	590,000	920,000	560,000	965,000	551,000	980,000	550,000	1000,000	547,600	1000,000
GR	547,600	1022,000	550,000	1022,000	560,000	1040,000	570,000	1060,000	580,000	1110,000
GR	590,000	1160,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000
X1	7450,000	12,000	1000,000	1020,000	14,000	14,000	14,000	0,000	0,000	0,000
GR	590,000	920,000	560,000	965,000	551,000	980,000	550,000	1000,000	548,000	1003,000
GR	547,700	1010,000	548,000	1017,000	550,000	1020,000	560,000	1040,000	570,000	1060,000
GR	580,000	1110,000	590,000	1160,000	0,000	0,000	0,000	0,000	0,000	0,000
X1	7500,000	0,000	0,000	0,000	50,000	50,000	50,000	0,000	0,100	0,000
X1	7700,000	12,000	1000,000	1020,000	200,000	200,000	200,000	0,000	0,000	0,000
GR	590,000	900,000	560,000	945,000	551,000	960,000	550,000	1000,000	548,500	1003,000
GR	548,000	1010,000	548,500	1017,000	550,000	1020,000	560,000	1050,000	570,000	1100,000
GR	580,000	1150,000	590,000	1200,000	0,000	0,000	0,000	0,000	0,000	0,000
X1	7735,000	15,000	990,000	1030,000	35,000	35,000	35,000	0,000	0,000	0,000
X3	10,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000
GR	590,000	900,000	560,000	945,000	552,000	960,000	552,300	990,000	548,300	995,000
GR	548,100	1000,000	548,100	1010,000	549,800	1015,000	551,000	1020,000	554,800	1025,000
GR	556,000	1030,000	560,000	1050,000	570,000	1100,000	580,000	1150,000	590,000	1200,000
SB	1,000	1,600	3,000	0,000	30,600	0,050	340,000	0,280	548,200	548,100
UCA-8 SOUTHERN RR										
X1	7745,000	15,000	990,000	1030,000	10,000	10,000	10,000	0,000	0,000	0,000
X2	0,000	0,000	1,000	571,400	578,100	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	578,500	579,500	0,000
BT	12,000	800,000	590,000	0,000	820,000	578,100	0,000	880,000	578,100	0,000
BT	980,000	578,400	0,000	990,000	578,500	0,000	1030,000	578,600	0,000	1080,000
BT	579,000	0,000	1180,000	580,200	0,000	1280,000	581,200	0,000	1380,000	582,000
BT	0,000	1445,000	582,600	0,000	2200,000	590,000	0,000	0,000	0,000	0,000
GR	582,600	867,000	559,500	915,000	555,500	967,000	552,300	990,000	548,300	995,000
GR	548,100	1000,000	548,100	1010,000	549,800	1015,000	551,000	1020,000	552,000	1030,000
GR	553,800	1067,000	554,000	1110,000	572,900	1161,000	580,000	1260,000	590,000	1330,000
X1	7765,000	15,000	1000,000	1017,000	20,000	20,000	20,000	0,000	2,000	0,000
GR	582,600	867,000	559,500	915,000	555,500	967,000	552,400	1000,000	550,400	1003,000
GR	550,500	1010,000	550,500	1016,000	551,700	1017,000	553,400	1067,000	554,000	1110,000



OCA-9 VALLEY

X1	7900.000	0.000	0.000	0.000	135.000	135.000	135.000	0.000	2.000	0.000
X1	6200.000	0.000	0.000	0.000	300.000	300.000	300.000	0.000	2.300	0.000
X1	8500.000	0.000	0.000	0.000	300.000	300.000	300.000	0.000	2.300	0.000
X1	9000.000	11.000	1000.000	1023.000	500.000	500.000	500.000	0.000	-3.300	0.000
GR	594.400	753.000	584.100	853.000	567.300	940.000	566.600	953.000	564.400	1000.000
GR	562.700	1003.000	562.300	1013.000	562.700	1022.000	564.500	1023.000	576.700	1053.000
GR	586.400	1086.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

OCA-10 VALLEY

X1	9430.000	0.000	0.000	0.000	430.000	430.000	430.000	0.000	3.500	0.000
UT	5.000	720.000	1350.000	1715.000	2870.000	1715.000	0.000	0.000	0.000	0.000

OCA-11 VALLEY

X1	10660.000	11.000	1000.000	1018.000	1230.000	1230.000	1230.000	0.000	0.000	0.000
GR	598.200	827.000	585.300	827.000	576.200	1000.000	572.000	1003.000	571.800	1008.000
GR	572.400	1015.000	576.600	1018.000	576.600	1027.000	576.700	1115.000	577.300	1127.000
GR	597.700	1212.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

OCA-12 VALLEY

X1	13000.000	12.000	1000.000	1017.000	2740.000	2740.000	2740.000	0.000	0.000	0.000
GR	610.700	682.000	594.200	782.000	586.600	882.000	588.700	982.000	585.400	1000.000
GR	582.400	1002.000	582.400	1008.000	582.700	1014.000	585.700	1017.000	586.800	1082.000
GR	599.300	1182.000	605.200	1227.000	0.000	0.000	0.000	0.000	0.000	0.000

X1	13500.000	11.000	1000.000	1017.000	500.000	500.000	500.000	0.000	0.000	0.000
GR	620.000	680.000	600.000	900.000	587.500	950.000	587.000	1000.000	584.500	1002.000
GR	584.000	1008.000	584.500	1014.000	587.000	1017.000	587.500	1080.000	600.000	1170.000
GR	610.000	1400.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

X1	13575.000	12.000	1000.000	1005.400	75.000	75.000	75.000	0.000	0.000	0.000
GR	610.000	680.000	600.000	900.000	587.500	950.000	586.900	1000.000	585.800	1000.000
GR	584.200	1001.200	584.200	1003.800	585.800	1005.400	586.900	1005.400	587.500	1080.000
GR	600.000	1170.000	610.000	1400.000	0.000	0.000	0.000	0.000	0.000	0.000
NC	0.000	0.000	0.024	0.000	0.000	0.000	0.000	0.000	0.000	0.000

X1	13579.000	16.000	1000.000	1005.400	4.000	4.000	4.000	0.000	0.000	0.000
X5	10.000	0.000	0.000	0.000	0.000	0.000	0.000	591.000	591.000	0.000
BT	16.000	680.000	610.000	610.000	900.000	600.000	600.000	925.000	593.000	593.000
BT	950.000	592.500	587.500	982.000	592.500	587.200	1000.000	592.200	586.900	1000.000
BT	592.200	588.000	1001.600	592.200	589.500	1003.800	592.200	589.600	1005.400	592.200
BT	588.000	1005.400	592.200	586.900	1067.000	592.200	587.400	1080.000	592.200	587.500
BT	1115.000	592.300	592.300	1170.000	600.000	600.000	1400.000	610.000	610.000	0.000
GR	610.000	680.000	600.000	900.000	593.000	925.000	587.500	950.000	587.200	982.000
GR	586.900	1000.000	585.800	1000.000	584.200	1001.600	584.200	1003.800	585.800	1005.400
GR	586.900	1005.400	587.400	1067.000	587.500	1080.000	592.500	1115.000	600.000	1170.000
GR	610.000	1400.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

OCA-13 SR 1009

X1	13620.000	16.000	1000.000	1005.400	41.000	41.000	41.000	1.000	0.400	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	592.500	592.500	0.000
BT	16.000	680.000	610.000	610.000	900.000	600.000	600.000	925.000	593.000	593.000
BT	950.000	592.500	587.500	982.000	592.500	587.200	1000.000	592.200	587.300	1000.000
BT	592.200	588.400	1001.600	592.200	590.000	1003.800	592.200	590.000	1005.400	592.200
BT	588.400	1005.400	592.200	587.300	1067.000	592.200	587.400	1080.000	592.200	587.500
BT	1115.000	592.300	592.300	1170.000	600.000	600.000	1400.000	610.000	610.000	0.000
GR	610.000	680.000	600.000	900.000	595.000	925.000	587.500	950.000	587.200	982.000
GR	587.300	1000.000	586.200	1000.000	584.600	1001.200	584.600	1003.800	586.200	1005.400
GR	587.300	1005.400	587.400	1067.000	587.500	1080.000	592.300	1115.000	600.000	1170.000
GR	610.000	1400.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NC	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

X1	13625.000	0.000	0.000	0.000	5.000	5.000	5.000	0.000	0.000	0.000
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X1	13650.000	11.000	1000.000	1017.000	25.000	25.000	25.000	0.000	0.000	0.000
GR	610.000	750.000	600.000	920.000	588.000	970.000	587.500	1000.000	585.500	1002.000
GR	584.900	1008.000	585.500	1014.000	587.500	1017.000	588.000	1100.000	600.000	1320.000
GR	610.000	1500.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

X1	14270.000	15.000	1000.000	1016.000	620.000	620.000	620.000	0.000	0.000	0.000
GR	620.000	280.000	610.000	680.000	600.000	680.000	592.000	970.000	591.500	1000.000
GR	590.000	1005.000	589.100	1008.000	590.000	1011.000	591.500	1016.000	592.000	1050.000
GR	600.000	1260.000	610.000	1320.000	620.000	1480.000	0.000	0.000	0.000	0.000
QT	5.000	415.000	790.000	1010.000	1710.000	1010.000	0.000	0.000	0.000	0.000

X1	14680.000	15.000	1000.000	1014.000	410.000	410.000	410.000	0.000	0.000	0.000
GR	615.000	700.000	610.000	650.000	600.000	950.000	595.000	970.000	594.000	1000.000
GR	592.500	1002.000	591.900	1007.000	592.500	1012.000	594.000	1014.000	595.000	1080.000
GR	600.000	1100.000	610.000	1130.000	620.000	1200.000	0.000	0.000	0.000	0.000

UCA-14 VALLEY

X1	15200.000	15.000	1000.000	1013.000	520.000	520.000	520.000	0.000	0.000	0.000
GR	618.800	644.000	611.600	744.000	600.900	844.000	597.900	944.000	597.400	1000.000
GR	596.200	1001.000	595.500	1007.000	595.800	1011.000	598.100	1013.000	597.600	1054.000
GR	600.300	1044.000	613.600	1144.000	619.400	1237.000	0.000	0.000	0.000	0.000

X1	15400.000	0.000	0.000	0.000	200.000	200.000	200.000	0.000	2.200	0.000
BT	5.000	360.000	690.000	885.000	1501.000	885.000	0.000	0.000	0.000	0.000

UCA-16 VALLEY

X1	16080.000	15.000	1000.000	1012.000	880.000	880.000	880.000	0.000	0.000	0.000
GR	627.200	765.000	614.500	865.000	609.400	929.000	607.000	965.000	607.700	1000.000
GR	605.400	1002.000	605.200	1005.000	605.000	1009.000	607.500	1012.000	606.200	1065.000
GR	614.700	1165.000	624.200	1265.000	627.200	1342.000	0.000	0.000	0.000	0.000
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 ORANGE CO FIA STUDY

T2 CATES CREEK

T3 50 YEAR Q MARCH 78 HLJ

J1	ICHECK	INQ	NINQ	IDIR	STRT	METRIC	HVINS	D	WSEL	FD
	-10.	3.	0.	0.	0.000788	0.00	0.0	0.	493.800	0.000

J2	NPROF	IPLUT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	2.000	0.000	-1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

\*PROF 2

CCHV= 0.100 CENV= 0.500

\*SECNO 145650.000

SECNO	DEPTH	WSEL	CRINS	WSELK	EG	HV	HL	GLUSS	BANK ELEV
D	QLOB	QCH	QRDB	ALOB	ACH	ARDB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRJA	IDC	ICONT	CORAR	TOPWID	ENDST

ENO RIVER VALLEY SECTION

145650.00	14.80	493.80	0.00	493.80	494.07	0.27	0.00	0.00	488.80
4660.	406.	4108.	66.	473.	954.	57.	0.	0.	486.50
0.00	0.80	4.39	1.15	0.100	0.050	0.100	0.000	479.00	817.00
0.000781	0.	0.	0.	0	0	0	0.00	266.80	1083.80

\*SECNO 300.000

OCA-1 VALLEY

300.00	10.57	494.67	0.00	0.00	494.79	0.12	0.71	0.01	489.10
1950.	549.	812.	589.	474.	204.	350.	22.	4.	486.40
0.08	1.16	3.97	1.68	0.120	0.060	0.120	0.060	484.10	850.66
0.001530	760.	760.	760.	2	0	0	0.00	225.58	1076.24

\*SECNO 1000.000

1000.00	7.91	496.11	0.00	0.00	496.31	0.20	1.50	0.02	490.50
1950.	1011.	821.	119.	622.	159.	70.	57.	0.	490.50
0.15	1.63	5.15	1.69	0.120	0.060	0.120	0.060	488.20	814.94
0.003196	700.	700.	700.	2	0	0	0.00	225.35	1040.28

\*SECNO 2000.000

2000.00	6.83	500.83	0.00	0.00	501.46	0.63	5.01	0.13	496.50
1770.	397.	1084.	289.	233.	136.	129.	53.	14.	496.50
0.20	1.70	7.98	2.24	0.120	0.060	0.120	0.060	494.00	815.10
0.009627	1000.	1000.	1000.	4	0	0	0.00	262.30	1077.40

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 REC2 RELEASE DATED NOV 76 UPDATED AUG 77  
 ERROR CORR - 01,02

MODIFICATION - 50,51,52,53  
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T1 ORANGE CO FIA STUDY  
 T2 CATES CREEK  
 T3 100 YEAR 4 MARCH 78 HLJ

J1	ICHECK	INW	NINW	IDIR	STRI	MEIRIC	HVINS	9	RSEL	FD
	-10.	4.	0.	0.	0.000795	0.00	0.0	0.	494.400	0.000
J2	NPROF	IPLUT	PRFVS	XSECV	XSECH	FN	ALLDC	IRW	CHNIM	ITRACE
	5.000	0.000	-1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

\*PROF 3

CCHV= 0.100 CERV= 0.500  
 \*SLCNO 145650.000

SECNO	DEPTH	CWSLL	CRINS	WSELK	EG	HV	HL	DLSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VRQB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAK	TOPWID	ENDSI

ENO RIVER VALLEY SECTION

145650.00	15.30	494.30	0.00	494.40	494.59	0.28	0.00	0.00	488.80
5100.	523.	4499.	76.	569.	990.	64.	0.	0.	486.50
0.00	0.92	4.55	1.22	0.100	0.050	0.100	0.000	479.00	799.45
0.000798	0.	0.	0.	0	0	5	0.00	284.85	1084.50

\*SECNO 300.000

UCA-1 VALLEY

300.00	11.12	495.22	0.00	0.00	495.37	0.15	0.77	0.01	489.10
2470.	754.	977.	739.	558.	216.	380.	24.	5.	486.40
0.08	1.35	4.53	1.94	0.120	0.060	0.120	0.060	484.10	839.32
0.001846	760.	760.	760.	2	0	0	0.00	257.48	1076.80

\*SECNO 1000.000

1000.00	8.65	496.85	0.00	0.00	497.07	0.22	1.68	0.02	490.50
2470.	1347.	968.	155.	766.	175.	85.	42.	0.	490.50
0.14	1.76	5.54	1.82	0.120	0.060	0.120	0.060	488.20	794.99
0.003261	700.	700.	700.	2	0	0	0.00	247.14	1042.13

\*SECNO 2000.000

2000.00	7.46	501.46	0.00	0.00	502.00	0.54	4.85	0.10	496.50
2240.	664.	1181.	395.	363.	149.	167.	61.	15.	496.50
0.19	1.85	7.92	2.37	0.120	0.060	0.120	0.060	494.00	784.73
0.008365	1000.	1000.	1000.	4	0	0	0.00	298.39	1083.12

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 RECD RELEASE DATED NOV 76 UPDATED AUG 77  
 ERROR CORR - 01.02

MODIFICATION - 50,51,52,53  
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T1 ORANGE CO. FIA STUDY  
 T2 CATES CREEK  
 T3 500 YEAR U MARCH 78 HLJ

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	U	WSEL	FW
	-10.	5.	0.	0.	0.000807	0.00	0.0	0.	496.200	0.000
J2	HPROF	IPLUT	PRFVS	WSECV	XSECH	FN	ALLOD	ISW	CHNIM	ITRALL
	15.000	0.000	-1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

\*PROF 4

CCHV= 0.100 CEHV= 0.300

*SECNO	145650.000									
SECNO	DEPTH	WSEL	CRINS	WSELK	EG	HV	HL	WLOSS	BANK	LEV
0	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TNA	LEFT	RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WLN	ELMIN	SSIA	
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDSI	

END RIVER VALLEY SECTION

145650.00	17.20	496.20	0.00	496.20	496.52	0.32	0.00	0.00	488.80	
6810.	1115.	5569.	120.	1015.	1125.	91.	0.	0.	466.50	
0.00	1.10	4.95	1.41	0.100	0.050	0.100	0.000	479.00	733.00	
0.000799	0.	0.	0.	0	0	0	0.00	553.20	1050.20	

\*SECNO 300.000

UCA-1 VALLEY

300.00	13.06	497.16	0.00	0.00	497.35	0.19	0.82	0.01	489.10	
4100.	1572.	1368.	1160.	912.	257.	490.	34.	6.	486.40	
0.07	1.72	5.33	2.37	0.120	0.060	0.120	0.060	484.10	794.70	
0.002030	760.	760.	760.	2	0	0	0.00	284.07	1078.77	

\*SECNO 1000.000

1000.00	10.66	498.86	0.00	0.00	499.10	0.24	1.74	0.02	490.50	
4100.	2472.	1355.	275.	1232.	217.	133.	60.	10.	490.50	
0.12	2.01	6.25	2.06	0.120	0.060	0.120	0.060	488.20	740.80	
0.003109	700.	700.	700.	2	0	0	0.00	506.54	1047.15	

\*SECNO 2000.000

2000.00	8.99	502.99	0.00	0.00	503.42	0.43	4.26	0.06	496.50	
3750.	1588.	1438.	704.	732.	181.	273.	92.	18.	496.50	
0.19	2.17	7.93	2.58	0.120	0.060	0.120	0.060	494.00	733.57	
0.006456	1000.	1000.	1000.	3	0	0	0.00	363.37	1096.94	

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

EAR Q MARCH 78 HLJ

SUMMARY PRINTOUT

SECNO	CHSEL	EG	ELMIN	ELLC	TOPWID
145650.000	492.50	492.75	479.00	0.00	220.00
145650.000	493.80	494.07	479.00	0.00	266.80
145650.000	494.30	494.59	479.00	0.00	284.85
145650.000	496.20	496.52	479.00	0.00	353.20
300.000	493.31	493.38	484.10	0.00	195.90
300.000	494.67	494.79	484.10	0.00	225.58
300.000	495.22	495.37	484.10	0.00	237.48
300.000	497.16	497.35	484.10	0.00	284.07
1000.000	494.39	494.55	488.20	0.00	174.44
1000.000	496.11	496.31	488.20	0.00	225.35
1000.000	496.85	497.07	488.20	0.00	247.14
1000.000	498.86	499.10	488.20	0.00	306.34
2000.000	499.35	500.03	494.00	0.00	120.21
2000.000	500.83	501.46	494.00	0.00	262.30
2000.000	501.46	502.00	494.00	0.00	298.39
2000.000	502.99	503.42	494.00	0.00	363.37
2030.000	499.85	500.33	494.10	0.00	161.13
2030.000	501.27	501.72	494.10	0.00	286.25
2030.000	501.81	502.24	494.10	0.00	309.09
2030.000	503.22	503.61	494.10	0.00	368.06
2050.000	500.17	500.47	494.30	0.00	197.27
2050.000	501.68	501.83	494.30	0.00	308.72
2050.000	502.20	502.34	494.30	0.00	330.09
2050.000	503.55	503.70	494.30	0.00	386.36
* 2054.000	502.37	503.01	494.30	520.00	337.16
* 2054.000	503.01	503.78	494.30	520.00	363.90
* 2054.000	503.20	504.17	494.30	520.00	371.63
* 2054.000	504.04	505.10	494.30	520.00	406.91
2106.000	503.56	503.67	495.50	520.00	386.50
2106.000	504.44	504.60	495.50	520.00	425.79
2106.000	504.89	505.07	495.50	520.00	447.29
2106.000	505.87	506.11	495.50	520.00	493.68

SLCNO	CWSEL	EG	ELMIN	ELLC	TOPWID
2115.000	503.68	503.69	495.50	0.00	391.75
2115.000	504.62	504.64	495.50	0.00	434.30
2115.000	505.09	505.11	495.50	0.00	456.64
2115.000	506.12	506.16	495.50	0.00	505.97
2200.000	503.72	503.75	497.40	0.00	288.24
2200.000	504.68	504.74	497.40	0.00	315.21
2200.000	505.16	505.23	497.40	0.00	328.66
2200.000	506.21	506.34	497.40	0.00	357.39
2400.000	503.95	504.23	499.30	0.00	250.48
2400.000	505.10	505.34	499.30	0.00	275.04
2400.000	505.63	505.87	499.30	0.00	286.43
2400.000	506.85	507.13	499.30	0.00	312.48
3000.000	509.94	510.37	505.10	0.00	166.91
3000.000	510.77	511.38	505.10	0.00	195.37
3000.000	511.16	511.85	505.10	0.00	208.51
3000.000	512.35	513.12	505.10	0.00	247.68
3500.000	515.13	515.58	510.00	0.00	105.76
3500.000	516.63	517.16	510.00	0.00	128.48
3500.000	517.27	517.86	510.00	0.00	138.19
3500.000	518.75	519.57	510.00	0.00	160.56
3556.000	515.29	516.75	510.40	0.00	20.00
* 3556.000	516.60	519.76	510.40	0.00	20.00
3556.000	517.95	518.35	510.40	0.00	148.54
3556.000	519.57	520.11	510.40	0.00	173.39
3604.000	515.61	517.68	511.50	517.40	20.00
* 3604.000	517.90	520.67	511.50	517.40	20.00
* 3604.000	521.48	521.60	511.50	517.40	229.61
* 3604.000	521.62	522.12	511.50	517.40	245.69
3625.000	517.90	518.03	511.50	0.00	131.95
3625.000	521.14	521.24	511.50	0.00	213.63
3625.000	521.51	521.64	511.50	0.00	231.23
3625.000	521.90	522.20	511.50	0.00	249.19
3740.000	518.19	518.30	511.20	0.00	170.22
3740.000	521.30	521.37	511.20	0.00	226.21
3740.000	521.72	521.81	511.20	0.00	234.19
3740.000	522.37	522.58	511.20	0.00	246.91
3900.000	518.56	518.69	512.60	0.00	196.22
3900.000	521.47	521.54	512.60	0.00	242.08
3900.000	521.94	522.03	512.60	0.00	249.05
3900.000	522.81	522.98	512.60	0.00	262.10
4000.000	518.90	519.12	513.50	0.00	186.63
4000.000	521.59	521.69	513.50	0.00	230.19
4000.000	522.09	522.21	513.50	0.00	237.66
4000.000	523.06	523.29	513.50	0.00	252.39

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SECNO	CWSEL	EG	ELMIN	ELLC	TOPWID
4100.000	519.50	519.81	514.40	0.00	181.68
4100.000	521.79	521.95	514.40	0.00	219.85
4100.000	522.32	522.50	514.40	0.00	227.78
4100.000	523.43	523.71	514.40	0.00	244.39
4450.000	523.08	523.28	517.60	0.00	161.59
4450.000	524.12	524.44	517.60	0.00	182.31
4450.000	524.75	525.10	517.60	0.00	195.04
4450.000	526.37	526.77	517.60	0.00	227.25
5850.000	535.02	535.88	530.20	0.00	105.34
5850.000	536.68	537.41	530.20	0.00	136.78
5850.000	537.24	538.04	530.20	0.00	147.47
5850.000	538.71	539.67	530.20	0.00	175.52
5880.000	536.01	536.22	530.50	0.00	134.82
5880.000	537.42	537.71	530.50	0.00	163.67
5880.000	538.02	538.35	530.50	0.00	173.24
5880.000	539.57	540.00	530.50	0.00	196.55
5887.000	535.00	536.75	530.50	560.00	30.20
* 5887.000	536.36	539.89	530.50	560.00	30.20
* 5887.000	545.45	546.45	530.50	560.00	294.77
* 5887.000	546.31	547.52	530.50	560.00	310.80
5972.000	536.72	537.83	530.80	554.20	134.92
5972.000	539.68	542.34	530.80	554.20	192.95
5972.000	546.79	547.13	530.80	554.20	309.48
5972.000	547.91	548.33	530.80	554.20	322.57
5990.000	537.90	538.00	530.80	0.00	161.25
5990.000	542.59	542.63	530.80	0.00	242.60
5990.000	547.15	547.17	530.80	0.00	313.72
5990.000	548.35	548.38	530.80	0.00	327.66
6010.000	537.88	538.09	531.90	0.00	152.89
6010.000	542.59	542.65	531.90	0.00	222.23
6010.000	547.15	547.18	531.90	0.00	287.57
6010.000	548.34	548.39	531.90	0.00	305.78
6200.000	538.98	539.60	534.00	0.00	142.07
6200.000	542.75	542.87	534.00	0.00	198.50
6200.000	547.19	547.23	534.00	0.00	260.58
6200.000	548.42	548.50	534.00	0.00	277.79
6250.000	539.82	540.41	534.80	0.00	142.97
6250.000	542.83	543.01	534.80	0.00	188.35
6250.000	547.21	547.26	534.80	0.00	249.72
6250.000	548.45	548.54	534.80	0.00	267.08
6400.000	542.11	542.90	537.10	0.00	155.82
6400.000	543.33	544.05	537.10	0.00	220.64
6400.000	547.30	547.37	537.10	0.00	345.29
6400.000	548.61	548.71	537.10	0.00	386.44

SECNO	CWSEL	EG	ELMIN	ELLC	TOPWID
6780.000	547.12	547.38	542.20	0.00	354.08
6780.000	547.91	548.15	542.20	0.00	380.39
6780.000	548.01	548.35	542.20	0.00	383.94
6780.000	549.51	549.72	542.20	0.00	433.79
7000.000	549.38	549.79	545.10	0.00	468.69
7000.000	550.06	550.36	545.10	0.00	671.26
7000.000	550.43	550.64	545.10	0.00	679.94
7000.000	551.12	551.32	545.10	0.00	695.80
7041.000	549.45	551.10	545.70	0.00	22.00
* 7041.000	551.14	553.88	545.70	0.00	22.00
* 7041.000	552.05	555.26	545.70	0.00	22.00
* 7041.000	554.68	559.17	545.70	0.00	22.00
* 7436.000	552.17	553.28	547.60	555.60	22.00
* 7436.000	554.54	556.23	547.60	555.60	22.00
* 7436.000	555.72	557.68	547.60	555.60	22.00
* 7436.000	565.33	566.48	547.60	555.60	22.00
7450.000	552.71	553.56	547.70	0.00	48.27
7450.000	555.78	556.48	547.70	0.00	59.53
7450.000	557.27	557.95	547.70	0.00	64.98
7450.000	566.35	566.60	547.70	0.00	97.22
7500.000	553.58	554.43	547.80	0.00	51.11
7500.000	556.18	556.81	547.80	0.00	60.65
7500.000	557.58	558.22	547.80	0.00	65.77
7500.000	566.39	566.65	547.80	0.00	97.02
7700.000	554.82	555.00	548.00	0.00	80.83
7700.000	557.32	557.55	548.00	0.00	92.48
7700.000	558.63	558.88	548.00	0.00	98.66
7700.000	566.68	566.80	548.00	0.00	148.45
7735.000	554.69	555.10	548.10	0.00	70.82
7735.000	557.39	557.64	548.10	0.00	87.05
7735.000	558.69	558.96	548.10	0.00	96.02
7735.000	566.70	566.82	548.10	0.00	148.58
7745.000	554.89	555.15	548.10	571.40	40.00
7745.000	557.39	557.80	548.10	571.40	40.00
7745.000	558.69	559.17	548.10	571.40	40.00
7745.000	566.70	567.07	548.10	571.40	40.00
7765.000	555.15	555.20	548.40	0.00	172.89
7765.000	557.81	557.86	548.40	0.00	211.31
7765.000	559.19	559.24	548.40	0.00	217.90
7765.000	567.09	567.12	548.40	0.00	255.66
7900.000	555.34	555.58	550.40	0.00	144.92
7900.000	557.93	558.06	550.40	0.00	185.23
7900.000	559.29	559.40	550.40	0.00	200.50
7900.000	567.11	567.15	550.40	0.00	246.21

SECNO	CWSEL	EG	ELMIN	ELLC	TOPWID
8200.000	557.44	557.73	552.70	0.00	142.24
8200.000	558.94	559.23	552.70	0.00	165.07
8200.000	560.00	560.24	552.70	0.00	161.59
8200.000	567.21	567.26	552.70	0.00	235.66
8500.000	559.79	560.06	555.00	0.00	142.90
8500.000	561.01	561.34	555.00	0.00	161.23
8500.000	561.64	561.99	555.00	0.00	171.24
8500.000	567.39	567.46	555.00	0.00	225.53
9000.000	563.94	564.49	559.00	0.00	88.69
9000.000	565.30	566.04	559.00	0.00	99.88
9000.000	565.86	566.72	559.00	0.00	104.13
9000.000	567.96	568.87	559.00	0.00	120.13
9430.000	567.65	568.05	562.30	0.00	92.55
9430.000	569.24	569.75	562.30	0.00	104.64
9430.000	569.98	570.54	562.30	0.00	110.32
9430.000	571.74	572.50	562.30	0.00	123.80
10660.000	577.79	578.26	571.80	0.00	145.35
10660.000	579.03	579.47	571.80	0.00	165.26
10660.000	579.60	580.04	571.80	0.00	171.52
10660.000	581.23	581.65	571.80	0.00	195.16
13000.000	588.27	588.33	582.40	0.00	233.79
13000.000	589.53	589.60	582.40	0.00	260.23
13000.000	590.11	590.19	582.40	0.00	272.61
13000.000	591.57	591.67	582.40	0.00	305.50
13500.000	589.53	589.68	584.00	0.00	152.79
13500.000	590.84	591.01	584.00	0.00	167.38
13500.000	591.44	591.64	584.00	0.00	174.13
13500.000	592.98	593.23	584.00	0.00	191.26
13575.000	589.95	590.02	584.20	0.00	157.47
13575.000	591.27	591.36	584.20	0.00	172.19
13575.000	591.88	591.98	584.20	0.00	179.05
13575.000	593.45	593.59	584.20	0.00	196.65
* 13579.000	593.73	594.28	584.20	610.00	202.86
* 13579.000	594.29	595.04	584.20	610.00	208.86
* 13579.000	594.57	595.39	584.20	610.00	211.83
* 13579.000	595.23	596.30	584.20	610.00	218.94
13620.000	594.42	594.60	585.00	610.00	206.01
13620.000	595.26	595.49	585.00	610.00	214.95
13620.000	595.63	595.89	585.00	610.00	218.90
13620.000	596.59	596.94	585.00	610.00	229.17
13625.000	594.62	594.62	585.00	0.00	208.03
13625.000	595.50	595.52	585.00	0.00	217.51
13625.000	595.90	595.92	585.00	0.00	221.78
13625.000	596.93	596.98	585.00	0.00	232.84

SECNO CWSSEL EG ELMIN ELLC TOPWID

13650.000	594.62	594.63	584.90	0.00	295.49
13650.000	595.51	595.53	584.90	0.00	317.75
13650.000	595.91	595.93	584.90	0.00	327.80
13650.000	596.96	597.00	584.90	0.00	353.94
14270.000	594.76	594.87	589.10	0.00	190.43
14270.000	595.84	596.00	589.10	0.00	233.70
14270.000	596.35	596.52	589.10	0.00	254.06
14270.000	597.69	597.89	589.10	0.00	307.49
14680.000	596.30	596.42	591.90	0.00	120.39
14680.000	597.52	597.66	591.90	0.00	130.19
14680.000	598.08	598.22	591.90	0.00	134.62
14680.000	599.47	599.66	591.90	0.00	145.69
15200.000	599.31	599.47	595.50	0.00	142.81
15200.000	600.22	600.40	595.50	0.00	176.99
15200.000	600.68	600.86	595.50	0.00	195.79
15200.000	601.92	602.09	595.50	0.00	221.35
15400.000	601.26	601.51	597.70	0.00	133.91
15400.000	602.06	602.33	597.70	0.00	163.61
15400.000	602.42	602.71	597.70	0.00	177.27
15400.000	603.38	603.69	597.70	0.00	209.12
16080.000	609.06	609.18	605.00	0.00	144.16
16080.000	609.89	610.03	605.00	0.00	168.26
16080.000	610.29	610.44	605.00	0.00	179.04
16080.000	611.23	611.42	605.00	0.00	205.67

SUMMARY PRINTOUT

SECNO	CWSEL	QLOB	QCH	QROB	VLOB	VCH	VRUB
145650.000	492.50	189.24	3529.86	40.90	0.72	4.09	0.99
145650.000	493.80	406.21	4188.09	65.69	0.86	4.39	1.15
145650.000	494.30	523.12	4499.31	77.57	0.92	4.55	1.22
145650.000	496.20	1112.07	5569.30	127.83	1.10	4.95	1.41
300.000	493.31	222.18	506.12	321.70	0.77	2.88	1.17
300.000	494.67	548.85	812.21	588.94	1.16	3.97	1.68
300.000	495.22	754.46	977.02	738.52	1.35	4.53	1.94
300.000	497.16	1572.31	1367.56	1160.12	1.72	5.33	2.37
1000.000	494.39	457.70	535.35	56.95	1.34	4.55	1.40
1000.000	496.11	1010.53	820.79	118.68	1.63	5.15	1.69
1000.000	496.85	1346.81	968.03	155.16	1.76	5.54	1.82
1000.000	498.86	2471.83	1354.89	273.28	2.01	6.25	2.06
2000.000	499.35	88.45	766.74	94.81	1.67	7.32	1.67
2000.000	500.83	397.29	1003.64	289.07	1.70	7.98	2.24
2000.000	501.46	663.01	1181.03	395.36	1.83	7.92	2.37
2000.000	502.99	1588.35	1437.68	705.97	2.17	7.93	2.58
2030.000	499.85	118.22	719.86	111.92	1.40	6.35	1.51
2030.000	501.27	466.06	999.65	304.29	1.54	6.99	2.04
2030.000	501.81	722.98	1114.54	402.46	1.73	7.22	2.20
2030.000	503.22	1617.38	1406.76	705.87	2.11	7.05	2.50
2050.000	500.17	394.79	178.11	377.10	2.62	8.13	3.19
2050.000	501.68	977.33	178.49	614.18	2.21	6.38	2.78
2050.000	502.20	1305.97	192.15	741.88	2.31	6.39	2.85
2050.000	503.55	2370.60	229.96	1129.44	2.56	6.49	2.99
* 2054.000	502.37	725.49	204.08	20.43	3.11	12.53	1.23
* 2054.000	503.01	1426.44	282.80	60.76	4.09	15.00	2.00
* 2054.000	503.20	1822.45	334.73	82.82	4.77	17.08	2.41
* 2054.000	504.04	3047.56	431.12	251.31	5.71	18.78	3.48
2106.000	503.56	778.62	127.01	44.37	1.74	6.01	0.95
2106.000	504.44	1432.67	186.26	151.07	2.37	7.55	1.45
2106.000	504.89	1791.38	213.80	234.82	2.61	8.07	1.65
2106.000	505.87	2927.01	292.85	510.14	3.15	9.64	2.20
2115.000	503.68	627.75	48.99	213.25	0.67	1.57	0.75
2115.000	504.62	1204.07	77.05	488.88	0.98	2.20	1.07
2115.000	505.09	1541.36	90.56	606.08	1.11	2.45	1.20
2115.000	506.12	2617.21	130.93	981.85	1.48	3.19	1.57
2200.000	503.72	564.01	294.86	91.13	0.85	2.27	0.59
2200.000	504.68	1078.95	488.37	202.68	1.27	3.24	0.88
2200.000	505.16	1375.70	588.20	276.10	1.45	3.64	1.00
2200.000	506.21	2287.18	882.10	560.72	1.94	4.78	1.44
2400.000	503.95	204.19	473.06	272.75	1.53	5.75	1.51
2400.000	505.10	480.07	635.42	654.51	1.95	5.97	1.90
2400.000	505.63	637.71	724.31	877.98	2.11	6.16	2.05
2400.000	506.85	1130.35	1009.00	1590.66	2.61	7.05	2.51

SECNO	CWSEL	ULOB	UCH	OROB	VL0B	VCH	VR0B
3000.000	509.94	277.33	572.37	100.29	1.88	6.65	1.56
3000.000	510.77	628.32	878.33	263.36	2.67	8.55	2.36
3000.000	511.16	842.15	1027.55	370.30	3.01	9.28	2.67
3000.000	512.35	1555.72	1410.87	763.40	3.63	10.49	3.21
3500.000	515.13	324.80	599.30	25.90	2.12	6.57	1.56
3500.000	516.63	751.65	1942.55	73.79	2.72	7.79	2.01
3500.000	517.27	1005.40	1125.05	109.54	2.98	8.42	2.22
3500.000	518.73	1830.00	1669.90	230.10	3.71	10.25	2.81
3556.000	515.29	0.00	950.00	0.00	0.00	9.70	0.00
* 3556.000	516.60	0.00	1770.00	0.00	0.00	14.28	0.00
3556.000	517.95	1084.41	1040.73	114.86	2.65	6.88	1.93
3556.000	519.57	1951.56	1533.98	244.46	3.28	8.36	2.44
3604.000	515.61	0.00	950.00	0.00	0.00	11.55	0.00
* 3604.000	517.90	0.00	1770.00	0.00	0.00	13.82	0.00
* 3604.000	521.48	1069.01	822.94	348.05	1.71	4.12	1.40
* 3604.000	521.82	1792.21	1333.61	604.18	2.69	6.46	2.14
3625.000	517.90	411.39	410.31	128.29	1.52	4.08	1.40
3625.000	521.14	870.19	587.60	312.21	1.49	3.78	1.29
3625.000	521.51	1108.48	722.24	409.28	1.76	4.46	1.49
3625.000	521.90	1854.86	1167.54	707.60	2.75	6.93	2.25
3740.000	518.19	36.04	401.98	511.98	0.96	3.70	1.24
3740.000	521.30	123.96	539.93	1106.12	0.90	3.34	1.27
3740.000	521.72	168.67	661.66	1409.66	1.05	3.93	1.51
3740.000	522.37	313.19	1050.24	2366.56	1.56	5.84	2.27
3900.000	518.56	114.82	436.18	399.00	1.21	4.03	1.26
3900.000	521.47	302.62	553.10	914.28	1.13	3.33	1.26
3900.000	521.94	397.95	671.24	1170.81	1.32	3.82	1.47
3900.000	522.81	704.46	1042.92	1982.62	1.90	5.41	2.13
4000.000	518.90	103.49	492.50	354.01	1.48	5.09	1.46
4000.000	521.59	279.70	600.37	889.94	1.32	3.99	1.47
4000.000	522.09	372.77	720.39	1146.84	1.51	4.49	1.69
4000.000	523.06	673.92	1096.91	1959.16	2.12	6.09	2.36
4100.000	519.50	96.78	530.16	323.07	1.65	5.84	1.57
4100.000	521.79	255.99	653.84	860.17	1.51	4.79	1.69
4100.000	522.32	347.44	774.00	1118.56	1.72	5.26	1.92
4100.000	523.43	646.22	1148.99	1934.79	2.32	6.79	2.59
4450.000	523.08	274.27	482.76	192.97	1.58	4.91	1.52
4450.000	524.12	580.61	767.86	421.52	2.23	6.45	2.12
4450.000	524.75	771.18	898.80	570.03	2.43	6.82	2.30
4450.000	526.37	1385.00	1278.43	1066.56	2.89	7.79	2.71
5850.000	535.02	216.85	712.96	20.19	2.19	8.47	1.71
5850.000	536.68	666.82	1021.67	81.50	2.79	8.72	2.11
5850.000	537.24	914.45	1205.04	120.51	3.10	9.38	2.54
5850.000	538.71	1742.81	1717.67	269.52	3.78	10.88	2.89



SECNO	CNSEL	QLOB	QCH	QROB	VLOB	VCH	VROB
5880.000	536.01	333.19	596.45	18.36	1.66	4.45	1.23
5880.000	537.42	750.87	970.63	48.49	2.12	5.48	1.60
5880.000	538.02	1011.86	1160.22	67.91	2.36	5.94	1.76
5880.000	539.57	1879.49	1712.20	138.31	2.92	7.07	2.15
5887.000	535.00	0.00	950.00	0.00	0.00	10.62	0.00
* 5887.000	536.36	0.00	1770.00	0.00	0.00	15.09	0.00
* 5887.000	545.45	567.37	1587.42	85.22	1.96	9.42	2.16
* 5887.000	546.31	1350.89	2190.16	188.94	2.62	11.27	2.68
5972.000	536.72	0.00	950.00	0.00	0.00	8.47	0.00
5972.000	539.68	0.00	1770.00	0.00	0.00	15.09	0.00
5972.000	546.79	205.55	1328.30	706.16	1.26	5.96	1.52
5972.000	547.91	478.88	1832.28	1418.85	1.82	7.14	2.07
5990.000	537.90	112.76	577.49	259.75	0.98	5.17	1.15
5990.000	542.59	351.60	729.93	666.46	0.90	2.25	0.91
5990.000	547.15	503.32	735.63	1001.05	0.67	1.59	0.65
5990.000	548.35	852.61	1162.11	1715.28	0.99	2.33	0.97
6010.000	537.88	79.59	556.31	313.70	1.16	4.64	1.50
6010.000	542.59	342.93	638.57	788.50	1.02	2.86	1.08
6010.000	547.15	511.50	633.23	1095.19	0.74	1.95	0.76
6010.000	548.34	867.00	998.01	1864.99	1.09	2.85	1.13
6200.000	538.98	248.52	621.82	79.66	2.02	7.72	1.97
6200.000	542.75	811.80	645.74	312.46	1.57	4.14	1.44
6200.000	547.19	1117.30	611.84	510.85	1.02	2.50	0.89
6200.000	548.42	1875.09	963.11	891.79	1.47	3.58	1.28
6250.000	539.82	254.59	613.63	81.78	2.00	7.53	1.94
6250.000	542.43	784.28	693.80	291.92	1.80	4.90	1.67
6250.000	547.21	1109.64	636.30	494.07	1.13	2.78	0.99
6250.000	548.45	1866.72	996.66	866.62	1.61	3.92	1.40
6400.000	542.11	136.98	713.41	99.60	1.67	6.15	1.67
6400.000	543.33	451.01	990.69	328.30	2.22	8.84	2.21
6400.000	547.30	874.88	642.60	722.52	1.20	3.36	1.09
6400.000	548.61	1495.50	939.93	1294.57	1.59	4.32	1.43
6780.000	547.12	137.52	456.77	315.90	1.22	5.57	1.22
6780.000	547.91	351.92	604.48	763.60	1.70	5.18	1.70
6780.000	548.01	427.41	740.26	983.32	2.08	7.42	2.08
6780.000	549.51	828.05	845.81	1906.14	2.16	6.51	2.16
7000.000	549.36	66.86	487.81	295.33	1.17	6.69	1.17
7000.000	550.06	162.49	601.46	806.05	1.44	6.96	1.44
7000.000	550.43	261.86	594.49	1153.65	1.51	6.33	1.52
7000.000	551.12	494.01	720.72	2145.27	1.86	6.69	1.90
7041.000	549.45	0.00	850.00	0.00	0.00	10.30	0.00
* 7041.000	551.14	0.00	1596.00	0.00	0.00	13.29	0.00
* 7041.000	552.05	0.00	2010.00	0.00	0.00	14.38	0.00
* 7041.000	554.68	0.00	3560.00	0.00	0.00	17.01	0.00

SECNO	CWSEL	ULOB	UCH	OROB	VLOB	VCH	VRGB
7436.000	552.17	0.00	850.00	0.00	0.00	8.45	0.00
7436.000	554.54	0.00	1590.00	0.00	0.00	10.41	0.00
7436.000	555.72	0.00	2010.00	0.00	0.00	11.26	0.00
7436.000	565.33	0.00	3360.00	0.00	0.00	8.61	0.00
7450.000	552.71	116.84	720.48	12.68	2.51	7.98	1.73
7450.000	555.78	362.20	1162.80	65.00	2.91	7.66	1.95
7450.000	557.27	544.34	1398.85	106.81	3.00	7.71	2.02
7450.000	566.35	1066.92	1853.65	440.03	2.09	5.10	1.65
7500.000	553.58	143.76	688.05	18.19	2.22	6.50	1.50
7500.000	556.18	370.78	1150.16	69.05	2.78	7.29	1.86
7500.000	557.58	509.97	1389.70	110.33	2.92	7.48	1.97
7500.000	566.39	1066.18	1855.11	438.71	2.10	5.13	1.65
7700.000	554.82	295.29	517.11	37.60	1.60	4.12	1.00
7700.000	557.52	618.93	862.01	109.07	2.02	4.92	1.56
7700.000	558.63	806.46	1041.20	162.34	2.15	5.16	1.45
7700.000	566.68	1408.89	1386.67	564.44	1.66	3.82	1.22
7735.000	554.89	117.04	732.96	0.00	1.30	3.93	0.00
7735.000	557.39	330.26	1257.58	2.36	1.79	4.43	0.49
7735.000	558.69	452.99	1544.22	12.79	1.90	4.60	0.71
7735.000	566.70	917.01	2178.89	264.10	1.45	3.32	0.92
7745.000	554.89	0.00	850.00	0.00	0.00	4.04	0.00
7745.000	557.39	0.00	1590.00	0.00	0.00	5.12	0.00
7745.000	558.69	0.00	2010.00	0.00	0.00	5.54	0.00
7745.000	566.70	0.00	3360.00	0.00	0.00	4.92	0.00
7765.000	555.15	105.37	516.26	428.37	0.86	2.87	1.09
7765.000	557.81	297.81	462.90	829.29	0.95	2.98	1.24
7765.000	559.19	437.89	532.30	1039.82	1.01	2.98	1.26
7765.000	567.09	1013.88	663.52	1682.60	0.85	2.12	0.94
7900.000	555.54	58.67	419.18	372.15	1.27	3.23	1.75
7900.000	557.93	228.79	543.00	818.20	1.35	4.40	1.73
7900.000	559.29	351.36	609.48	1049.17	1.30	4.16	1.71
7900.000	567.11	970.71	698.11	1691.19	0.98	2.50	1.10
8200.000	557.44	54.43	430.43	359.15	1.36	3.75	1.86
8200.000	558.94	175.33	650.38	784.29	1.80	6.21	2.30
8200.000	560.00	277.77	702.93	1029.31	1.79	3.88	2.30
8200.000	567.21	906.93	748.64	1704.43	1.17	3.09	1.35
8500.000	559.79	55.49	432.00	362.51	1.34	3.65	1.83
8500.000	561.01	163.98	652.52	775.50	1.90	6.70	2.44
8500.000	561.64	243.54	757.42	1009.04	2.07	7.00	2.65
8500.000	567.39	821.33	816.79	1721.80	1.42	3.97	1.71
9000.000	563.94	149.68	688.82	13.49	1.75	6.55	1.46
9000.000	565.30	444.86	1103.98	41.16	2.58	8.10	1.98
9000.000	565.86	623.54	1326.69	59.77	2.97	8.90	2.23
9000.000	567.96	1304.19	1910.70	145.11	3.55	9.69	2.58

SECNO	CNSL	QLOB	QCH	QROB	VLOB	VCH	VROB
9430.000	567.65	179.99	653.91	16.10	1.63	5.73	1.32
9430.000	569.24	406.47	1043.53	48.00	2.32	6.93	1.74
9430.000	569.98	695.34	1244.06	70.59	2.59	7.42	1.91
9430.000	571.74	1346.43	1858.77	154.80	3.31	8.92	2.40
10660.000	577.79	14.09	541.31	164.60	1.09	6.34	1.36
10660.000	579.03	61.40	745.13	543.37	1.49	6.92	2.08
10660.000	579.60	96.10	648.26	768.64	1.65	7.19	2.34
10660.000	581.23	258.67	1119.43	1495.90	1.95	7.59	2.83
13000.000	588.27	340.45	264.24	115.31	1.01	2.92	0.82
13000.000	589.53	604.04	388.58	277.38	1.31	3.48	1.14
13000.000	590.11	885.20	453.24	376.55	1.43	3.72	1.28
13000.000	591.57	1526.47	641.96	701.57	1.75	4.38	1.61
13500.000	589.53	163.91	345.87	210.21	1.34	4.20	1.32
13500.000	590.84	361.50	519.10	469.40	1.79	4.97	1.76
13500.000	591.44	478.56	611.62	624.62	1.99	5.53	1.95
13500.000	592.98	855.01	883.84	1131.15	2.47	6.28	2.42
13575.000	589.95	244.30	107.31	368.39	1.63	3.72	1.62
13575.000	591.27	475.64	152.70	721.66	2.05	4.25	2.04
13575.000	591.86	609.95	177.05	928.00	2.24	4.51	2.22
13575.000	593.45	1035.50	240.37	1586.13	2.70	5.21	2.67
* 13579.000	593.73	131.75	293.84	294.41	1.47	9.09	1.70
* 13579.000	594.29	309.84	420.60	619.55	2.31	11.90	2.56
* 13579.000	594.57	421.57	478.46	814.96	2.70	12.99	2.95
* 13579.000	595.23	785.75	644.15	1440.10	3.73	15.93	3.98
13620.000	594.42	174.09	204.64	341.27	1.26	6.06	1.39
13620.000	595.26	375.67	288.77	685.35	1.84	7.54	1.96
13620.000	595.63	495.09	332.44	886.67	2.11	8.25	2.23
13620.000	596.59	685.55	453.56	1531.09	2.80	9.98	2.91
13625.000	594.62	265.56	54.80	399.62	0.59	1.10	0.59
13625.000	595.50	500.12	95.81	754.07	0.96	1.76	0.96
13625.000	595.90	636.27	118.34	960.39	1.15	2.09	1.14
13625.000	596.93	1067.72	185.58	1616.70	1.67	2.98	1.65
13650.000	594.62	128.75	171.95	419.50	0.43	1.12	0.41
13650.000	595.51	243.33	301.15	605.52	0.69	1.76	0.65
13650.000	595.91	509.94	371.84	1033.22	0.83	2.12	0.78
13650.000	596.96	521.27	581.03	1767.70	1.18	3.00	1.10
14270.000	594.76	184.79	288.95	246.27	1.29	3.92	1.22
14270.000	595.84	376.54	449.70	523.96	1.68	4.94	1.57
14270.000	596.35	490.36	550.14	694.50	1.83	5.34	1.71
14270.000	597.69	858.67	748.99	1262.34	2.14	6.21	2.02
14680.000	596.50	67.55	201.87	145.78	1.17	3.60	1.19
14680.000	597.52	156.79	301.62	331.54	1.52	4.29	1.56
14680.000	598.08	210.90	357.70	441.59	1.67	4.58	1.73
14680.000	599.47	389.05	527.07	793.88	2.06	5.41	2.16



SUMMARY PRINTOUT TABLE 150

SECNO	XLCH	ELTRD	ELLC	ELMIN	U	CWSEL	CRWS	EG	10KAS	VCH	AREA	.01K
145650.000	0.00	0.00	0.00	479.00	3760.00	492.50	0.00	492.75	7.79	4.09	1167.75	1347.44
145650.000	0.00	0.00	0.00	479.00	4660.00	493.80	0.00	494.07	7.81	4.39	1484.17	1667.55
145650.000	0.00	0.00	0.00	479.00	5100.00	494.30	0.00	494.59	7.98	4.55	1622.48	1805.70
145650.000	0.00	0.00	0.00	479.00	6810.00	496.20	0.00	496.52	7.99	4.95	2228.17	2409.78
300.000	760.00	0.00	0.00	484.10	1050.00	495.31	0.00	495.38	9.80	2.88	741.53	355.35
300.000	760.00	0.00	0.00	484.10	1950.00	494.67	0.00	494.79	15.30	3.97	1027.86	498.60
300.000	760.00	0.00	0.00	484.10	2470.00	495.22	0.00	495.37	18.46	4.53	1153.98	574.90
300.000	760.00	0.00	0.00	484.10	4100.00	497.16	0.00	497.35	20.30	5.33	1659.16	909.86
1000.000	700.00	0.00	0.00	488.20	1050.00	494.39	0.00	494.55	32.14	4.35	506.35	185.21
1000.000	700.00	0.00	0.00	488.20	1950.00	496.11	0.00	496.31	31.96	5.15	891.28	344.94
1000.000	700.00	0.00	0.00	488.20	2470.00	496.85	0.00	497.07	32.61	5.54	1025.78	432.53
1000.000	700.00	0.00	0.00	488.20	4100.00	498.86	0.00	499.10	31.09	6.25	1581.21	735.28
2000.000	1000.00	0.00	0.00	494.00	950.00	499.35	498.52	500.03	114.40	7.32	214.38	88.82
2000.000	1000.00	0.00	0.00	494.00	1770.00	500.83	0.00	501.46	96.27	7.98	498.16	180.40
2000.000	1000.00	0.00	0.00	494.00	2240.00	501.46	0.00	502.00	83.65	7.92	676.50	244.92
2000.000	1000.00	0.00	0.00	494.00	3730.00	502.99	0.00	503.42	64.56	7.93	1186.37	464.23
2030.000	30.00	0.00	0.00	494.10	950.00	499.85	0.00	500.33	77.33	6.35	272.52	108.03
2030.000	30.00	0.60	0.00	494.10	1770.00	501.27	0.00	501.72	68.75	6.99	594.69	213.47
2030.000	30.00	0.00	0.00	494.10	2240.00	501.81	0.00	502.24	66.30	7.22	755.27	275.11
2030.000	30.00	0.00	0.00	494.10	3730.00	503.22	0.00	503.61	56.92	7.65	1232.12	485.93
2050.000	10.00	0.00	0.00	494.30	950.00	500.17	0.00	500.47	214.98	8.13	290.93	64.79
2050.000	10.00	0.00	0.00	494.30	1770.00	501.68	0.00	501.83	95.54	6.38	691.96	181.27
2050.000	10.00	0.00	0.00	494.30	2240.00	502.20	0.00	502.34	87.29	6.39	855.79	239.76
2050.000	10.00	0.00	0.00	494.30	3730.00	503.55	0.00	503.70	72.05	6.49	1359.55	439.42
* 2054.000	4.00	499.80	520.00	494.30	950.00	502.37	502.37	503.01	351.88	12.53	265.86	50.64
* 2054.000	4.00	499.80	520.00	494.30	1770.00	503.01	503.01	503.78	415.00	15.00	397.97	86.89
* 2054.000	4.00	499.80	520.00	494.30	2240.00	503.20	503.20	504.17	511.25	17.08	436.16	99.07
* 2054.000	4.00	499.80	520.00	494.30	3730.00	504.04	504.04	505.10	500.15	18.78	829.09	166.79
2106.000	52.00	499.80	520.00	495.50	950.00	503.56	0.00	503.67	57.40	6.01	514.35	125.39
2106.000	52.00	499.80	520.00	495.50	1770.00	504.44	0.00	504.60	73.83	7.55	734.50	205.99
2106.000	52.00	499.80	520.00	495.50	2240.00	504.89	0.00	505.07	76.82	8.07	856.33	255.56
2106.000	52.00	499.80	520.00	495.50	3730.00	505.87	0.00	506.11	91.11	9.64	1191.17	390.77
2115.000	9.00	0.00	0.00	495.50	950.00	503.68	0.00	503.69	5.01	1.57	1356.61	424.32
2115.000	9.00	0.00	0.00	495.50	1770.00	504.62	0.00	504.64	8.51	2.20	1722.21	606.74
2115.000	9.00	0.00	0.00	495.50	2240.00	505.09	0.00	505.11	9.86	2.45	1931.73	712.81
2115.000	9.00	0.00	0.00	495.50	3730.00	506.12	0.00	506.16	14.47	3.19	2431.53	980.67
2200.000	85.00	0.00	0.00	497.40	950.00	503.72	0.00	503.75	8.50	2.27	944.68	325.77
2200.000	85.00	0.00	0.00	497.40	1770.00	504.68	0.00	504.74	14.13	3.24	1233.79	470.93
2200.000	85.00	0.00	0.00	497.40	2240.00	505.16	0.00	505.23	16.37	3.64	1387.69	553.65
2200.000	85.00	0.00	0.00	497.40	3730.00	506.21	0.00	506.34	23.50	4.78	1750.46	769.42
2400.000	200.00	0.00	0.00	499.30	950.00	503.95	0.00	504.23	94.22	5.75	396.37	97.87
2400.000	200.00	0.00	0.00	499.30	1770.00	505.10	0.00	505.34	72.29	5.97	697.56	208.17
2400.000	200.00	0.00	0.00	499.30	2240.00	505.63	0.00	505.87	67.36	6.16	846.76	272.92
2400.000	200.00	0.00	0.00	499.30	3730.00	506.85	0.00	507.13	67.89	7.05	1210.83	452.69

SECNO	XLCH	ELTRD	ELLC	ELMIN	U	CWSEL	CRWS	EG	10K*8	VCH	AREA	.01K
3000.000	600.00	0.00	0.00	505.10	950.00	509.94	509.32	510.37	109.81	6.65	298.17	90.64
3000.000	600.00	0.00	0.00	505.10	1770.00	510.77	510.43	511.38	143.47	8.55	449.33	147.77
3000.000	600.00	0.00	0.00	505.10	2240.00	511.16	510.80	511.85	153.11	9.28	529.75	181.83
3000.000	600.00	0.00	0.00	505.10	3730.00	512.35	511.59	513.12	151.07	10.49	600.50	303.47
3500.000	500.00	0.00	0.00	510.00	950.00	515.13	0.00	515.58	98.42	6.57	260.99	95.52
3500.000	500.00	0.00	0.00	510.00	1770.00	516.63	0.00	517.18	95.51	7.79	435.13	181.11
3500.000	500.00	0.00	0.00	510.00	2240.00	517.27	0.00	517.88	97.49	8.82	519.94	228.86
3500.000	500.00	0.00	0.00	510.00	3730.00	518.73	0.00	519.57	110.97	10.25	730.69	354.69
3556.000	56.00	0.00	0.00	510.40	950.00	515.29	0.00	516.75	274.81	9.70	97.98	57.31
3556.000	56.00	0.00	0.00	510.40	1770.00	516.60	516.60	519.76	463.44	14.28	123.98	82.22
3556.000	56.00	0.00	0.00	510.40	2240.00	517.95	0.00	518.35	65.98	6.88	619.55	273.77
3556.000	56.00	0.00	0.00	510.40	3730.00	519.57	0.00	520.11	75.30	8.36	878.80	429.85
3604.000	48.00	519.70	517.40	511.50	950.00	515.61	0.00	517.68	470.38	11.55	82.28	43.80
3604.000	48.00	519.70	517.40	511.50	1770.00	517.90	0.00	520.87	417.87	13.82	128.08	86.59
3604.000	48.00	519.70	517.40	511.50	2240.00	521.48	0.00	521.69	16.44	4.12	1073.52	552.48
3604.000	48.00	519.70	517.40	511.50	3730.00	521.82	0.00	522.12	58.58	6.46	1154.82	600.50
3625.000	21.00	0.00	0.00	511.50	950.00	517.90	0.00	518.03	27.52	4.08	462.90	181.08
3625.000	21.00	0.00	0.00	511.50	1770.00	521.14	0.00	521.24	13.13	3.78	983.19	488.54
3625.000	21.00	0.00	0.00	511.50	2240.00	521.51	0.00	521.64	17.35	4.46	1066.47	537.76
3625.000	21.00	0.00	0.00	511.50	3730.00	521.90	0.00	522.20	39.17	6.93	1158.26	591.44
3740.000	115.00	0.00	0.00	511.20	950.00	518.19	0.00	518.30	19.85	3.70	558.39	213.23
3740.000	115.00	0.00	0.00	511.20	1770.00	521.30	0.00	521.37	9.58	3.34	1168.50	571.95
3740.000	115.00	0.00	0.00	511.20	2240.00	521.72	0.00	521.81	12.48	3.93	1263.71	634.12
3740.000	115.00	0.00	0.00	511.20	3730.00	522.37	0.00	522.58	25.37	5.84	1422.27	740.57
3900.000	160.00	0.00	0.00	512.60	950.00	518.56	0.00	518.69	30.15	4.03	519.88	173.01
3900.000	160.00	0.00	0.00	512.60	1770.00	521.47	0.00	521.54	11.61	3.33	1156.89	519.52
3900.000	160.00	0.00	0.00	512.60	2240.00	521.94	0.00	522.03	14.26	3.82	1270.94	593.15
3900.000	160.00	0.00	0.00	512.60	3730.00	522.81	0.00	522.98	25.12	5.41	1493.43	744.22
4000.000	100.00	0.00	0.00	513.50	950.00	518.90	0.00	519.12	55.91	5.09	409.72	127.05
4000.000	100.00	0.00	0.00	513.50	1770.00	521.59	0.00	521.69	19.10	3.99	969.71	404.99
4000.000	100.00	0.00	0.00	513.50	2240.00	522.09	0.00	522.21	22.21	4.49	1086.27	475.35
4000.000	100.00	0.00	0.00	513.50	3730.00	523.06	0.00	523.29	35.03	6.09	1326.83	630.21
4100.000	100.00	0.00	0.00	514.40	950.00	519.50	0.00	519.81	80.00	5.84	355.08	106.21
4100.000	100.00	0.00	0.00	514.40	1770.00	521.79	0.00	521.95	31.20	4.79	814.76	316.86
4100.000	100.00	0.00	0.00	514.40	2240.00	522.32	0.00	522.50	34.11	5.26	932.98	383.52
4100.000	100.00	0.00	0.00	514.40	3730.00	523.43	0.00	523.71	47.12	6.79	1194.33	543.39
4450.000	550.00	0.00	0.00	517.60	950.00	523.08	0.00	523.28	50.80	4.91	399.60	133.29
4450.000	550.00	0.00	0.00	517.60	1770.00	524.12	0.00	524.44	67.98	6.45	577.70	214.68
4450.000	550.00	0.00	0.00	517.60	2240.00	524.75	0.00	525.10	66.39	6.62	697.80	274.92
4450.000	550.00	0.00	0.00	517.60	3730.00	526.37	0.00	526.77	64.82	7.79	1037.84	463.30
5850.000	1400.00	0.00	0.00	530.20	950.00	535.02	534.89	535.88	191.76	8.47	194.87	68.60
5850.000	1400.00	0.00	0.00	530.20	1770.00	536.68	535.96	537.41	130.72	8.72	394.73	154.81
5850.000	1400.00	0.00	0.00	530.20	2240.00	537.24	536.43	538.04	134.07	9.38	474.49	193.45
5850.000	1400.00	0.00	0.00	530.20	3730.00	538.71	537.64	539.67	136.90	10.88	712.28	318.79



SECNO	XLCH	ELTRD	ELLC	ELMIN	0	CMSEL	CRIMS	EG	10K*8	VCH	AREA	-01K
5880.000	30.00	0.00	0.00	530.50	950.00	536.01	0.00	536.22	55.21	4.43	550.05	127.85
5880.000	30.00	0.00	0.00	530.50	1770.00	537.42	0.00	537.71	57.92	5.88	560.08	232.57
5880.000	30.00	0.00	0.00	530.50	2240.00	538.02	0.00	538.35	59.54	5.94	653.46	290.24
5880.000	30.00	0.00	0.00	530.50	3730.00	539.57	0.00	540.00	63.43	7.07	949.69	468.35
5887.000	7.00	545.60	560.00	530.50	950.00	535.00	534.91	538.75	164.23	10.62	89.49	74.13
5887.000	7.00	545.60	560.00	530.50	1770.00	536.36	536.36	539.09	298.14	15.09	117.27	102.51
5887.000	7.00	545.60	560.00	530.50	2240.00	545.45	545.45	546.45	152.77	9.42	498.65	161.23
5887.000	7.00	545.60	560.00	530.50	3730.00	546.31	546.31	547.52	180.30	11.27	745.58	277.79
5972.000	85.00	545.60	554.20	530.80	950.00	536.72	555.29	537.83	92.31	8.47	112.15	98.88
5972.000	85.00	545.60	554.20	530.80	1770.00	539.68	556.89	542.34	259.65	13.09	135.24	109.84
5972.000	85.00	545.60	554.20	530.80	2240.00	546.79	0.00	547.13	42.58	5.96	649.94	343.29
5972.000	85.00	545.60	554.20	530.80	3730.00	547.91	0.00	548.33	50.56	7.14	1204.08	524.99
5990.000	18.00	0.00	0.00	530.80	950.00	537.90	0.00	538.00	19.02	3.17	525.67	217.82
5990.000	18.00	0.00	0.00	530.80	1770.00	542.59	0.00	542.65	4.45	2.25	1475.10	838.65
5990.000	18.00	0.00	0.00	530.80	2240.00	547.15	0.00	547.17	1.39	1.59	2749.61	1898.90
5990.000	18.00	0.00	0.00	530.80	3730.00	548.35	0.00	548.38	2.70	2.33	5132.25	2268.63
6010.000	20.00	0.00	0.00	531.90	950.00	537.88	0.00	538.09	41.14	4.64	397.89	148.12
6010.000	20.00	0.00	0.00	531.90	1770.00	542.59	0.00	542.65	6.79	2.86	1288.03	679.04
6010.000	20.00	0.00	0.00	531.90	2240.00	547.15	0.00	547.18	1.44	1.95	2449.44	1608.11
6010.000	20.00	0.00	0.00	531.90	3730.00	548.34	0.00	548.59	3.72	2.85	2803.15	1934.45
6200.000	190.00	0.00	0.00	534.00	950.00	538.98	0.00	539.60	165.73	7.72	245.74	73.79
6200.000	190.00	0.00	0.00	534.00	1770.00	542.75	0.00	542.87	19.70	4.14	891.39	398.74
6200.000	190.00	0.00	0.00	534.00	2240.00	547.19	0.00	547.23	3.95	2.50	1909.51	1127.77
6200.000	190.00	0.00	0.00	534.00	3730.00	548.42	0.00	548.50	7.10	5.58	2240.25	1399.45
6250.000	50.00	0.00	0.00	534.80	950.00	539.82	0.00	540.41	154.72	7.53	251.05	76.37
6250.000	50.00	0.00	0.00	534.80	1770.00	542.03	0.00	543.01	31.49	4.90	751.15	315.42
6250.000	50.00	0.00	0.00	534.80	2240.00	547.21	0.00	547.26	5.31	2.78	1711.32	972.23
6250.000	50.00	0.00	0.00	534.80	3730.00	548.45	0.00	548.54	9.25	3.92	2051.80	1226.70
6400.000	150.00	0.00	0.00	537.10	950.00	542.11	541.98	542.90	169.85	8.15	228.93	72.89
6400.000	150.00	0.00	0.00	537.10	1770.00	545.33	0.00	544.05	145.85	8.84	463.23	147.58
6400.000	150.00	0.00	0.00	537.10	2240.00	547.30	0.00	547.37	10.17	3.36	1585.44	702.54
6400.000	150.00	0.00	0.00	537.10	3730.00	548.61	0.00	548.71	14.18	4.32	2064.49	990.37
6780.000	380.00	0.00	0.00	542.20	910.00	547.12	0.00	547.38	85.67	5.57	452.13	99.48
6780.000	380.00	0.00	0.00	542.20	1700.00	547.91	0.00	548.15	81.52	6.18	742.51	188.28
6780.000	380.00	0.00	0.00	542.20	2151.00	548.01	0.00	548.35	114.70	7.42	778.64	200.84
6780.000	380.00	0.00	0.00	542.20	3580.00	549.51	0.00	549.72	62.07	6.51	1394.75	454.40
7000.000	220.00	0.00	0.00	545.10	850.00	549.38	549.33	549.79	146.18	6.69	382.64	70.30
7000.000	220.00	0.00	0.00	545.10	1590.00	550.06	0.00	550.56	126.21	6.96	772.13	141.53
7000.000	220.00	0.00	0.00	545.10	2010.00	550.43	0.00	550.64	95.28	8.35	1027.01	208.12
7000.000	220.00	0.00	0.00	545.10	3360.00	551.12	0.00	551.32	86.84	6.69	1501.40	360.57
7041.000	41.00	0.00	0.00	545.70	850.00	549.45	0.00	551.10	410.18	10.30	82.53	41.97
7041.000	41.00	0.00	0.00	545.70	1590.00	551.14	551.14	553.88	449.87	13.29	119.65	74.96
7041.000	41.00	0.00	0.00	545.70	2010.00	552.05	552.05	555.26	445.72	14.38	139.78	95.21
7041.000	41.00	0.00	0.00	545.70	3360.00	554.68	554.68	559.17	450.99	17.01	197.51	160.37

SECNO	XLCH	ELTRD	ELLC	ELMIN	0	CWSEL	CRWS	EG	10K*S	VCH	AREA	.01K
* 7436.000	395.00	580.90	555.60	547.60	850.00	552.17	0.00	553.28	221.31	8.43	100.60	57.14
* 7436.000	395.00	580.90	555.60	547.60	1590.00	554.54	0.00	556.23	213.83	10.41	152.73	106.73
* 7436.000	395.00	580.90	555.60	547.60	2010.00	555.72	0.00	557.60	213.10	11.26	170.57	137.67
* 7436.000	395.00	580.90	555.60	547.60	3360.00	565.33	0.00	566.48	62.17	8.61	390.16	426.13
7450.000	14.00	0.00	0.00	547.70	850.00	552.71	0.00	553.56	150.55	7.98	144.27	69.28
7450.000	14.00	0.00	0.00	547.70	1590.00	555.78	0.00	556.48	69.54	7.66	309.78	190.66
7450.000	14.00	0.00	0.00	547.70	2010.00	557.27	0.00	557.95	55.45	7.71	402.26	269.93
7450.000	14.00	0.00	0.00	547.70	3360.00	566.35	0.00	566.60	9.63	5.10	1150.22	1062.52
7500.000	50.00	0.00	0.00	547.80	850.00	553.58	0.00	554.13	80.98	6.50	182.77	94.46
7500.000	50.00	0.00	0.00	547.80	1590.00	556.18	0.00	556.81	59.66	7.29	328.11	205.85
7500.000	50.00	0.00	0.00	547.80	2010.00	557.57	0.00	558.22	50.59	7.48	416.41	262.60
7500.000	50.00	0.00	0.00	547.80	3360.00	566.39	0.00	566.65	9.79	5.13	1134.85	1075.85
7700.000	200.00	0.00	0.00	548.00	850.00	554.82	0.00	555.00	25.15	4.12	345.35	169.50
7700.000	200.00	0.00	0.00	548.00	1590.00	557.32	0.00	557.35	22.87	4.92	561.66	332.45
7700.000	200.00	0.00	0.00	548.00	2010.00	558.63	0.00	558.88	20.89	5.16	688.06	439.74
7700.000	200.00	0.00	0.00	548.00	3360.00	566.68	0.00	566.80	5.25	3.82	1673.53	1466.31
7735.000	35.00	0.00	0.00	548.10	850.00	554.89	0.00	555.10	30.70	3.93	276.72	153.41
7735.000	35.00	0.00	0.00	548.10	1590.00	557.39	0.00	557.64	26.05	4.43	472.98	311.51
7735.000	35.00	0.00	0.00	548.10	2010.00	558.69	0.00	558.96	22.38	4.60	592.42	424.85
7735.000	35.00	0.00	0.00	548.10	3360.00	566.70	0.00	566.82	4.78	3.52	1573.75	1536.86
7745.000	10.00	578.10	571.40	548.10	850.00	554.89	0.00	555.15	32.72	4.04	210.52	148.61
7745.000	10.00	578.10	571.40	548.10	1590.00	557.39	0.00	557.80	33.43	5.12	310.31	274.99
7745.000	10.00	578.10	571.40	548.10	2010.00	558.69	0.00	559.17	32.90	5.54	362.50	350.44
7745.000	10.00	578.10	571.40	548.10	3360.00	566.70	0.00	567.07	13.59	4.92	682.67	911.52
7765.000	20.00	0.00	0.00	548.40	850.00	555.15	0.00	555.20	12.20	2.87	624.48	243.38
7765.000	20.00	0.00	0.00	548.40	1590.00	557.81	0.00	557.86	8.29	2.98	1139.46	552.12
7765.000	20.00	0.00	0.00	548.40	2010.00	559.19	0.00	559.24	6.86	2.98	1435.75	767.49
7765.000	20.00	0.00	0.00	548.40	3360.00	567.09	0.00	567.12	1.64	2.12	3307.60	2620.49
7900.000	135.00	0.00	0.00	550.40	850.00	555.54	0.00	555.58	63.74	5.28	337.89	106.47
7900.000	135.00	0.00	0.00	550.40	1590.00	557.93	0.00	558.06	24.54	4.40	765.28	320.99
7900.000	135.00	0.00	0.00	550.40	2010.00	559.29	0.00	559.40	17.48	4.16	1030.56	480.80
7900.000	135.00	0.00	0.00	550.40	3360.00	567.11	0.00	567.15	2.66	2.50	2810.97	2060.78
8200.000	300.00	0.00	0.00	552.70	850.00	557.44	0.00	557.73	80.01	5.75	309.04	95.03
8200.000	300.00	0.00	0.00	552.70	1590.00	558.94	0.00	559.23	63.29	6.21	540.32	199.87
8200.000	300.00	0.00	0.00	552.70	2010.00	560.00	0.00	560.24	45.82	5.88	722.69	296.93
8200.000	300.00	0.00	0.00	552.70	3360.00	567.21	0.00	567.26	4.94	3.09	2279.13	1511.17
8500.000	300.00	0.00	0.00	555.00	850.00	559.74	0.00	560.06	75.57	5.63	316.10	97.78
8500.000	300.00	0.00	0.00	555.00	1590.00	561.01	0.00	561.34	77.95	6.70	500.41	180.09
8500.000	300.00	0.00	0.00	555.00	2010.00	561.64	0.00	561.99	73.88	7.00	606.42	233.85
8500.000	300.00	0.00	0.00	555.00	3360.00	567.39	0.00	567.48	10.08	3.97	1790.08	1058.48
9000.000	500.00	0.00	0.00	559.00	850.00	563.94	0.00	564.49	100.83	6.55	199.86	64.65
9000.000	500.00	0.00	0.00	559.00	1590.00	565.30	0.00	566.04	108.77	8.10	329.10	152.45
9000.000	500.00	0.00	0.00	559.00	2010.00	565.86	0.00	566.72	116.43	8.90	385.90	186.28
9000.000	500.00	0.00	0.00	559.00	3360.00	567.96	0.00	568.87	94.94	9.69	620.80	344.84

SECNO	XLCH	ELTRD	ELLC	ELMIN	W	CWSEL	CRWAB	EG	10K*8	VCH	AREA	.01K
9430.000	430.00	0.00	0.00	562.30	850.00	567.65	0.00	568.09	68.81	5.73	236.71	102.47
9430.000	430.00	0.00	0.00	562.30	1590.00	569.24	0.00	569.75	69.62	6.93	392.65	196.56
9430.000	430.00	0.00	0.00	562.30	2010.00	569.98	0.00	570.54	69.13	7.42	472.79	241.75
9430.000	430.00	0.00	0.00	562.30	3360.00	571.74	0.00	572.50	74.93	8.92	674.36	388.17
10660.000	1230.00	0.00	0.00	571.80	720.00	577.79	0.00	578.26	105.72	6.34	219.04	70.02
10660.000	1230.00	0.00	0.00	571.80	1350.00	579.03	0.00	579.47	92.41	6.92	410.31	140.03
10660.000	1230.00	0.00	0.00	571.80	1715.00	579.60	0.00	580.04	88.32	7.19	506.02	182.68
10660.000	1230.00	0.00	0.00	571.80	2870.00	581.23	0.00	581.65	73.18	7.59	805.97	335.49
13000.000	2740.00	0.00	0.00	582.40	720.00	588.27	0.00	588.33	18.37	2.92	569.33	168.00
13000.000	2740.00	0.00	0.00	582.40	1350.00	589.53	0.00	589.60	19.67	3.48	876.10	304.41
13000.000	2740.00	0.00	0.00	582.40	1715.00	590.11	0.00	590.19	20.14	3.72	1033.91	382.12
13000.000	2740.00	0.00	0.00	582.40	2870.00	591.57	0.00	591.67	21.77	4.38	1454.42	615.11
13500.000	500.00	0.00	0.00	584.00	720.00	589.53	0.00	589.68	41.13	4.20	363.72	112.27
13500.000	500.00	0.00	0.00	584.00	1350.00	590.84	0.00	591.01	41.88	4.97	572.27	208.61
13500.000	500.00	0.00	0.00	584.00	1715.00	591.44	0.00	591.64	42.57	5.33	675.12	262.85
13500.000	500.00	0.00	0.00	584.00	2870.00	592.98	0.00	593.23	44.99	6.28	954.62	427.89
13575.000	75.00	0.00	0.00	584.20	720.00	589.95	0.00	590.02	48.30	3.72	405.54	103.60
13575.000	75.00	0.00	0.00	584.20	1350.00	591.27	0.00	591.36	46.97	4.25	622.08	196.98
13575.000	75.00	0.00	0.00	584.20	1715.00	591.88	0.00	591.98	47.08	4.51	729.63	249.95
13575.000	75.00	0.00	0.00	584.20	2870.00	593.45	0.00	593.59	48.22	5.21	1024.89	413.30
* 13579.000	4.00	592.20	610.00	584.20	720.00	593.73	593.73	594.28	111.62	9.09	295.86	68.15
* 13579.000	4.00	592.20	610.00	584.20	1350.00	594.29	594.29	595.04	169.79	11.90	411.11	103.62
* 13579.000	4.00	592.20	610.00	584.20	1715.00	594.57	594.57	595.39	191.25	12.99	469.51	124.01
* 13579.000	4.00	592.20	610.00	584.20	2870.00	595.23	595.23	596.50	254.39	15.93	612.46	179.94
13620.000	41.00	592.20	610.00	585.00	720.00	594.42	0.00	594.60	47.11	6.06	417.80	104.90
13620.000	41.00	592.20	610.00	585.00	1350.00	595.26	0.00	595.49	61.82	7.54	593.31	171.70
13620.000	41.00	592.20	610.00	585.00	1715.00	595.63	0.00	595.89	69.17	8.25	673.41	206.20
13620.000	41.00	592.20	610.00	585.00	2870.00	596.59	0.00	596.94	86.06	9.98	888.17	309.37
13625.000	5.00	0.00	0.00	585.00	720.00	594.62	0.00	594.62	2.05	1.10	1171.62	502.71
13625.000	5.00	0.00	0.00	585.00	1350.00	595.50	0.00	595.52	4.62	1.76	1359.93	628.34
13625.000	5.00	0.00	0.00	585.00	1715.00	595.90	0.00	595.92	6.19	2.09	1447.42	689.30
13625.000	5.00	0.00	0.00	585.00	2870.00	596.93	0.00	596.98	11.13	2.98	1682.08	860.20
13650.000	25.00	0.00	0.00	584.90	720.00	594.62	0.00	594.63	1.21	1.12	1477.63	653.56
13650.000	25.00	0.00	0.00	584.90	1350.00	595.51	0.00	595.53	2.72	1.78	1750.65	818.32
13650.000	25.00	0.00	0.00	584.90	1715.00	595.91	0.00	595.93	3.63	2.12	1880.42	899.54
13650.000	25.00	0.00	0.00	584.90	2870.00	596.96	0.00	597.00	6.44	3.00	2236.83	1131.31
14270.000	620.00	0.00	0.00	589.10	720.00	594.76	0.00	594.87	34.74	3.92	418.91	122.16
14270.000	620.00	0.00	0.00	589.10	1350.00	595.84	0.00	596.00	41.68	4.94	648.52	209.11
14270.000	620.00	0.00	0.00	589.10	1715.00	596.35	0.00	596.52	45.54	5.34	772.45	259.91
14270.000	620.00	0.00	0.00	589.10	2870.00	597.69	0.00	597.89	45.36	6.21	1147.45	426.12
14680.000	410.00	0.00	0.00	591.90	415.00	596.30	0.00	596.42	45.73	3.80	232.58	62.76
14680.000	410.00	0.00	0.00	591.90	790.00	597.52	0.00	597.66	38.45	4.29	386.08	127.41
14680.000	410.00	0.00	0.00	591.90	1010.00	598.08	0.00	598.22	38.16	4.58	459.41	163.50
14680.000	410.00	0.00	0.00	591.90	1710.00	599.47	0.00	599.66	39.58	5.41	653.30	271.79

SECNO	XLCH	ELTRD	ELLC	ELMIN	U	CWSEL	CRWS	EG	10K*9	VCH	AREA	.01K
15200.000	520.00	0.00	0.00	595.50	415.00	599.31	0.00	599.47	82.05	4.56	602.79	45.80
15300.000	520.00	0.00	0.00	595.50	790.00	600.22	0.00	600.40	75.74	5.17	602.34	50.78
15400.000	520.00	0.00	0.00	595.50	1610.00	600.66	0.00	600.84	70.11	5.30	602.07	55.76
15200.000	520.00	0.00	0.00	595.50	1710.00	601.92	0.00	602.09	55.97	5.58	602.28	220.57
15400.000	200.00	0.00	0.00	597.70	415.00	601.26	0.00	601.51	126.64	5.34	602.50	30.00
15400.000	200.00	0.00	0.00	597.70	790.00	602.06	0.00	602.33	123.40	6.21	602.81	31.10
15400.000	200.00	0.00	0.00	597.70	1610.00	602.42	0.00	602.71	122.60	6.30	603.10	31.20
15400.000	200.00	0.00	0.00	597.70	1710.00	603.30	0.00	603.59	115.56	7.33	603.37	130.07
16000.000	880.00	0.00	0.00	605.00	360.00	609.06	0.00	609.18	60.76	3.97	609.82	46.10
16000.000	880.00	0.00	0.00	605.00	690.00	609.89	0.00	610.03	62.62	4.67	610.15	47.10
16000.000	880.00	0.00	0.00	605.00	885.00	610.29	0.00	610.44	63.37	4.90	610.12	111.10
16000.000	880.00	0.00	0.00	605.00	1501.00	611.23	0.00	611.42	66.67	5.78	610.90	123.03

SUMMARY PRINTOUT TABLE 150

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
145650.000	3760.00	492.50	0.00	0.00	0.00	220.00	0.00
145650.000	4660.00	493.80	1.30	0.00	0.00	266.80	0.00
145650.000	5100.00	494.30	0.50	0.00	-0.10	284.85	0.00
145650.000	6810.00	496.20	1.90	0.00	0.00	353.20	0.00
300.000	1050.00	493.31	0.00	0.81	0.00	195.90	760.00
300.000	1950.00	494.67	1.36	0.87	0.00	225.58	760.00
300.000	2470.00	495.22	0.54	0.91	0.00	237.48	760.00
300.000	4100.00	497.16	1.94	0.96	0.00	284.07	760.00
1000.000	1050.00	494.39	0.00	1.07	0.00	174.44	700.00
1000.000	1950.00	496.11	1.73	1.44	0.00	225.35	700.00
1000.000	2470.00	496.85	0.74	1.64	0.00	247.14	700.00
1000.000	4100.00	498.86	2.01	1.70	0.00	306.34	700.00
2000.000	950.00	499.35	0.00	4.97	0.00	120.21	1000.00
2000.000	1770.00	500.83	1.47	4.71	0.00	262.30	1000.00
2000.000	2240.00	501.46	0.63	4.60	0.00	298.59	1000.00
2000.000	3730.00	502.99	1.53	4.13	0.00	363.37	1000.00
2030.000	950.00	499.85	0.00	0.50	0.00	161.13	50.00
2030.000	1770.00	501.27	1.42	0.44	0.00	286.25	50.00
2030.000	2240.00	501.81	0.54	0.35	0.00	309.09	50.00
2030.000	3730.00	503.22	1.41	0.22	0.00	368.66	50.00
2050.000	950.00	500.17	0.00	0.32	0.00	197.27	10.00
2050.000	1770.00	501.68	1.51	0.41	0.00	308.72	10.00
2050.000	2240.00	502.20	0.52	0.39	0.00	330.09	10.00
2050.000	3730.00	503.55	1.35	0.33	0.00	388.56	10.00
* 2054.000	950.00	502.37	0.00	2.20	0.00	337.18	4.00
* 2054.000	1770.00	503.01	0.64	1.33	0.00	363.90	4.00
* 2054.000	2240.00	503.20	0.19	1.00	0.00	371.63	4.00
* 2054.000	3730.00	504.04	0.84	0.49	0.00	406.91	4.00
2105.000	950.00	503.56	0.00	1.18	0.00	380.50	52.00
2106.000	1770.00	504.44	0.88	1.42	0.00	425.79	52.00
2106.000	2240.00	504.89	0.45	1.69	0.00	447.29	52.00
2106.000	3730.00	505.87	0.98	1.83	0.00	493.68	52.00
2115.000	950.00	503.68	0.00	0.13	0.00	391.75	9.00
2115.000	1770.00	504.62	0.93	0.18	0.00	434.50	9.00
2115.000	2240.00	505.09	0.47	0.20	0.00	456.64	9.00
2115.000	3730.00	506.12	1.03	0.25	0.00	505.97	9.00
2200.000	950.00	503.72	0.00	0.04	0.00	288.24	85.00
2200.000	1770.00	504.68	0.96	0.06	0.00	315.21	85.00
2200.000	2240.00	505.16	0.48	0.07	0.00	328.66	85.00
2200.000	3730.00	506.21	1.06	0.09	0.00	357.34	85.00
2400.000	950.00	503.95	0.00	0.23	0.00	250.48	200.00
2400.000	1770.00	505.10	1.15	0.42	0.00	275.04	200.00
2400.000	2240.00	505.63	0.53	0.48	0.00	286.43	200.00
2400.000	3730.00	506.85	1.22	0.63	0.00	312.48	200.00



SECNO	U	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
3000.000	950.00	509.94	0.00	5.98	0.00	166.91	600.00
3000.000	1770.00	510.77	0.83	5.67	0.00	195.37	600.00
3000.000	2240.00	511.16	0.39	5.53	0.00	208.51	600.00
3000.000	3730.00	512.35	1.19	5.50	0.00	247.68	600.00
3500.000	950.00	515.13	0.00	5.20	0.00	105.76	500.00
3500.000	1770.00	516.63	1.50	5.86	0.00	128.48	500.00
3500.000	2240.00	517.27	0.64	6.10	0.00	138.19	500.00
3500.000	3730.00	518.73	1.47	6.38	0.00	160.56	500.00
3556.000	950.00	515.29	0.00	0.16	0.00	20.00	56.00
* 3556.000	1770.00	516.60	1.31	-0.05	0.00	20.00	56.00
3556.000	2240.00	517.95	1.35	0.69	0.00	148.54	56.00
3556.000	3730.00	519.57	1.62	0.84	0.00	173.39	56.00
3604.000	950.00	515.61	0.00	0.32	0.00	20.00	48.00
* 3604.000	1770.00	517.90	2.29	1.30	0.00	20.00	48.00
* 3604.000	2240.00	521.48	3.58	3.53	0.00	229.61	48.00
* 3604.000	3730.00	521.82	0.34	2.25	0.00	245.69	48.00
3625.000	950.00	517.90	0.00	2.28	0.00	131.95	21.00
3625.000	1770.00	521.14	3.24	3.24	0.00	213.63	21.00
3625.000	2240.00	521.51	0.37	0.03	0.00	231.23	21.00
3625.000	3730.00	521.90	0.39	0.08	0.00	249.19	21.00
3740.000	950.00	518.19	0.00	0.30	0.00	170.22	115.00
3740.000	1770.00	521.30	3.10	0.16	0.00	226.21	115.00
3740.000	2240.00	521.72	0.42	0.21	0.00	234.19	115.00
3740.000	3730.00	522.37	0.65	0.47	0.00	246.91	115.00
3900.000	950.00	518.56	0.00	0.37	0.00	196.22	160.00
3900.000	1770.00	521.47	2.90	0.17	0.00	242.08	160.00
3900.000	2240.00	521.94	0.47	0.22	0.00	249.05	160.00
3900.000	3730.00	522.81	0.87	0.43	0.00	262.10	160.00
4000.000	950.00	518.90	0.00	0.33	0.00	186.63	100.00
4000.000	1770.00	521.59	2.69	0.12	0.00	230.19	100.00
4000.000	2240.00	522.09	0.50	0.15	0.00	237.66	100.00
4000.000	3730.00	523.06	0.98	0.26	0.00	252.39	100.00
4100.000	950.00	519.30	0.00	0.60	0.00	181.68	100.00
4100.000	1770.00	521.79	2.29	0.20	0.00	219.85	100.00
4100.000	2240.00	522.32	0.53	0.23	0.00	227.78	100.00
4100.000	3730.00	523.43	1.11	0.36	0.00	244.39	100.00
4450.000	950.00	523.08	0.00	3.58	0.00	161.59	550.00
4450.000	1770.00	524.12	1.04	2.32	0.00	182.31	550.00
4450.000	2240.00	524.75	0.64	2.44	0.00	195.04	550.00
4450.000	3730.00	526.37	1.61	2.94	0.00	227.25	550.00
5850.000	950.00	535.02	0.00	11.95	0.00	105.34	1400.00
5850.000	1770.00	536.68	1.66	12.57	0.00	136.78	1400.00
5850.000	2240.00	537.24	0.56	12.49	0.00	147.47	1400.00
5850.000	3730.00	538.71	1.47	12.35	0.00	175.52	1400.00



SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
5880.000	950.00	536.01	0.00	0.99	0.00	134.82	30.00
5880.000	1770.00	537.42	1.41	0.74	0.00	163.67	30.00
5880.000	2240.00	538.02	0.61	0.78	0.00	173.24	30.00
5880.000	3730.00	539.57	1.55	0.86	0.00	196.55	30.00
5887.000	950.00	535.00	0.00	-1.02	0.00	30.20	7.00
* 5887.000	1770.00	536.36	1.36	-1.06	0.00	30.20	7.00
* 5887.000	2240.00	545.45	9.09	7.43	0.00	294.77	7.00
* 5887.000	3730.00	546.31	0.86	6.74	0.00	310.80	7.00
5972.000	950.00	536.72	0.00	1.72	0.00	134.92	85.00
5972.000	1770.00	539.68	2.96	3.33	0.00	192.95	85.00
5972.000	2240.00	546.79	7.11	1.34	0.00	309.48	85.00
5972.000	3730.00	547.91	1.12	1.50	0.00	322.57	85.00
5990.000	950.00	537.90	0.00	1.18	0.00	161.25	18.00
5990.000	1770.00	542.59	4.69	2.91	0.00	242.00	18.00
5990.000	2240.00	547.15	4.56	0.36	0.00	313.72	18.00
5990.000	3730.00	548.35	1.19	0.44	0.00	327.66	18.00
6010.000	950.00	537.88	0.00	-0.02	0.00	152.09	20.00
6010.000	1770.00	542.59	4.71	0.00	0.00	222.23	20.00
6010.000	2240.00	547.15	4.56	0.00	0.00	287.57	20.00
6010.000	3730.00	548.34	1.19	0.00	0.00	303.78	20.00
6200.000	950.00	538.98	0.00	1.10	0.00	142.07	190.00
6200.000	1770.00	542.75	3.77	0.16	0.00	198.50	190.00
6200.000	2240.00	547.19	4.44	0.04	0.00	260.58	190.00
6200.000	3730.00	548.42	1.23	0.06	0.00	277.79	190.00
6250.000	950.00	539.82	0.00	0.84	0.00	142.97	50.00
6250.000	1770.00	542.83	3.01	0.08	0.00	188.35	50.00
6250.000	2240.00	547.21	4.38	0.02	0.00	249.72	50.00
6250.000	3730.00	548.45	1.24	0.03	0.00	267.08	50.00
6400.000	950.00	542.11	0.00	2.29	0.00	153.82	150.00
6400.000	1770.00	543.33	1.22	0.50	0.00	220.64	150.00
6400.000	2240.00	547.30	3.97	0.09	0.00	345.29	150.00
6400.000	3730.00	548.61	1.31	0.16	0.00	386.44	150.00
6780.000	910.00	547.12	0.00	5.01	0.00	354.06	380.00
6780.000	1700.00	547.91	0.79	4.58	0.00	380.39	380.00
6780.000	2151.00	548.01	0.10	0.71	0.00	383.54	380.00
6780.000	3580.00	549.51	1.50	0.89	0.00	433.79	380.00
7000.000	850.00	549.38	0.00	2.26	0.00	468.69	220.00
7000.000	1590.00	550.06	0.68	2.14	0.00	671.26	220.00
7000.000	2010.00	550.43	0.38	2.42	0.00	679.94	220.00
7000.000	3360.00	551.12	0.69	1.62	0.00	695.80	220.00
7041.000	850.00	549.45	0.00	0.07	0.00	22.00	41.00
* 7041.000	1590.00	551.14	1.69	1.06	0.00	22.00	41.00
* 7041.000	2010.00	552.05	0.92	1.62	0.00	22.00	41.00
* 7041.000	3360.00	554.60	2.62	3.55	0.00	22.00	41.00

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
7436.000	850.00	552.17	0.00	2.72	0.00	22.00	395.00
7436.000	1590.00	554.54	2.37	3.40	0.00	22.00	395.00
7436.000	2010.00	555.72	1.17	3.66	0.00	22.00	395.00
7436.000	3360.00	565.33	9.61	10.65	0.00	22.00	395.00
7450.000	850.00	552.71	0.00	0.54	0.00	48.27	14.00
7450.000	1590.00	555.78	3.07	1.24	0.00	59.53	14.00
7450.000	2010.00	557.27	1.49	1.55	0.00	64.98	14.00
7450.000	3360.00	566.35	9.08	1.02	0.00	97.22	14.00
7500.000	850.00	553.58	0.00	0.88	0.00	51.11	50.00
7500.000	1590.00	556.18	2.60	0.40	0.00	60.65	50.00
7500.000	2010.00	557.58	1.40	0.31	0.00	65.77	50.00
7500.000	3360.00	566.39	8.81	0.05	0.00	97.02	50.00
7700.000	850.00	554.82	0.00	1.24	0.00	80.83	200.00
7700.000	1590.00	557.52	2.50	1.13	0.00	92.48	200.00
7700.000	2010.00	558.63	1.31	1.05	0.00	98.66	200.00
7700.000	3360.00	566.08	8.05	0.29	0.00	148.45	200.00
7735.000	850.00	554.89	0.00	0.07	0.00	70.62	35.00
7735.000	1590.00	557.39	2.49	0.07	0.00	87.05	35.00
7735.000	2010.00	558.69	1.30	0.06	0.00	96.02	35.00
7735.000	3360.00	566.70	8.00	0.01	0.00	148.58	35.00
7745.000	850.00	554.89	0.00	0.00	0.00	40.00	10.00
7745.000	1590.00	557.39	2.49	0.00	0.00	40.00	10.00
7745.000	2010.00	558.69	1.30	0.00	0.00	40.00	10.00
7745.000	3360.00	566.70	8.00	0.00	0.00	40.00	10.00
7765.000	850.00	555.15	0.00	0.25	0.00	172.89	20.00
7765.000	1590.00	557.81	2.66	0.42	0.00	211.31	20.00
7765.000	2010.00	559.19	1.38	0.49	0.00	217.90	20.00
7765.000	3360.00	567.09	7.91	0.39	0.00	255.66	20.00
7900.000	850.00	555.34	0.00	0.19	0.00	144.92	135.00
7900.000	1590.00	557.93	2.59	0.13	0.00	185.23	135.00
7900.000	2010.00	559.29	1.35	0.10	0.00	206.50	135.00
7900.000	3360.00	567.11	7.83	0.02	0.00	246.21	135.00
8200.000	850.00	557.44	0.00	2.10	0.00	142.24	300.00
8200.000	1590.00	558.94	1.50	1.01	0.00	165.07	300.00
8200.000	2010.00	560.00	1.06	0.71	0.00	181.59	300.00
8200.000	3360.00	567.21	7.21	0.09	0.00	235.66	300.00
8500.000	850.00	559.79	0.00	2.35	0.00	142.90	300.00
8500.000	1590.00	561.01	1.22	2.06	0.00	161.23	300.00
8500.000	2010.00	561.64	0.63	1.64	0.00	171.24	300.00
8500.000	3360.00	567.39	5.74	0.18	0.00	225.53	300.00
9000.000	850.00	563.94	0.00	4.15	0.00	88.69	500.00
9000.000	1590.00	565.30	1.36	4.29	0.00	99.88	500.00
9000.000	2010.00	565.86	0.57	4.22	0.00	104.13	500.00
9000.000	3360.00	567.96	2.09	0.57	0.00	120.13	500.00

SECNO	U	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
9430.000	850.00	567.65	0.00	3.71	0.00	92.55	430.00
9430.000	1590.00	569.24	1.59	3.94	0.00	104.64	430.00
9430.000	2010.00	569.98	0.74	4.11	0.00	110.32	430.00
9430.000	3360.00	571.74	1.76	3.78	0.00	125.80	430.00
10660.000	720.00	577.79	0.00	10.14	0.00	145.35	1230.00
10660.000	1350.00	579.03	1.24	9.79	0.00	163.26	1230.00
10660.000	1715.00	579.60	0.57	9.63	0.00	171.52	1230.00
10660.000	2870.00	581.23	1.63	9.49	0.00	195.16	1230.00
13000.000	720.00	588.27	0.00	10.49	0.00	233.79	2740.00
13000.000	1350.00	589.53	1.25	10.50	0.00	260.23	2740.00
13000.000	1715.00	590.11	0.58	10.51	0.00	272.61	2740.00
13000.000	2870.00	591.57	1.46	10.34	0.00	303.50	2740.00
13500.000	720.00	589.53	0.00	1.26	0.00	152.79	500.00
13500.000	1350.00	590.64	1.30	1.31	0.00	167.38	500.00
13500.000	1715.00	591.44	0.60	1.33	0.00	174.13	500.00
13500.000	2870.00	592.98	1.54	1.41	0.00	191.26	500.00
13575.000	720.00	589.95	0.00	0.42	0.00	157.47	75.00
13575.000	1350.00	591.27	1.31	0.43	0.00	172.19	75.00
13575.000	1715.00	591.88	0.61	0.44	0.00	179.05	75.00
13575.000	2870.00	593.45	1.57	0.47	0.00	190.65	75.00
* 13579.000	720.00	593.73	0.00	3.78	0.00	202.86	4.00
* 13579.000	1350.00	594.29	0.56	3.03	0.00	208.86	4.00
* 13579.000	1715.00	594.57	0.28	2.69	0.00	211.83	4.00
* 13579.000	2870.00	595.23	0.66	1.78	0.00	218.94	4.00
13620.000	720.00	594.42	0.00	0.69	0.00	208.01	41.00
13620.000	1350.00	595.26	0.84	0.96	0.00	214.95	41.00
13620.000	1715.00	595.63	0.37	1.06	0.00	218.90	41.00
13620.000	2870.00	596.59	0.96	1.35	0.00	229.17	41.00
13625.000	720.00	594.62	0.00	0.20	0.00	208.03	5.00
13625.000	1350.00	595.50	0.89	0.24	0.00	217.51	5.00
13625.000	1715.00	595.90	0.40	0.27	0.00	221.78	5.00
13625.000	2870.00	596.93	1.03	0.35	0.00	232.84	5.00
13650.000	720.00	594.62	0.00	0.00	0.00	295.49	25.00
13650.000	1350.00	595.51	0.89	0.01	0.00	317.75	25.00
13650.000	1715.00	595.91	0.40	0.01	0.00	327.80	25.00
13650.000	2870.00	596.96	1.05	0.03	0.00	353.94	25.00
14270.000	720.00	594.76	0.00	0.14	0.00	190.43	620.00
14270.000	1350.00	595.64	1.08	0.33	0.00	235.70	620.00
14270.000	1715.00	596.35	0.51	0.44	0.00	254.00	620.00
14270.000	2870.00	597.69	1.34	0.73	0.00	307.49	620.00
14680.000	415.00	596.30	0.00	1.54	0.00	120.39	410.00
14680.000	790.00	597.52	1.23	1.68	0.00	130.19	410.00
14680.000	1010.00	598.08	0.55	1.73	0.00	134.02	410.00
14680.000	1710.00	599.47	1.39	1.78	0.00	145.69	410.00

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
15200.000	415.00	599.31	0.00	3.01	0.00	142.81	520.00
15200.000	790.00	600.22	0.91	2.70	0.00	176.99	520.00
15200.000	1010.00	600.68	0.46	2.61	0.00	195.79	520.00
15200.000	1710.00	601.92	1.24	2.45	0.00	221.35	520.00
15400.000	415.00	601.26	0.00	1.96	0.00	135.91	200.00
15400.000	790.00	602.06	0.79	1.84	0.00	165.61	200.00
15400.000	1010.00	602.42	0.37	1.74	0.00	177.27	200.00
15400.000	1710.00	603.38	0.95	1.46	0.00	209.12	200.00
16080.000	360.00	609.06	0.00	7.80	0.00	144.16	880.00
16080.000	690.00	609.89	0.83	7.83	0.00	168.26	880.00
16080.000	885.00	610.29	0.40	7.86	0.00	179.04	880.00
16080.000	1501.00	611.23	0.95	7.86	0.00	205.67	880.00

SUMMARY OF ERRORS

CAUTION	SECNO= 2054.000	PROFILE= 1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 2054.000	PROFILE= 1	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 2054.000	PROFILE= 1	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO= 2054.000	PROFILE= 2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 2054.000	PROFILE= 2	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 2054.000	PROFILE= 2	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO= 2054.000	PROFILE= 3	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 2054.000	PROFILE= 3	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 2054.000	PROFILE= 3	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO= 2054.000	PROFILE= 4	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 2054.000	PROFILE= 4	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 2054.000	PROFILE= 4	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO= 3556.000	PROFILE= 2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 3556.000	PROFILE= 2	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 3556.000	PROFILE= 2	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO= 3604.000	PROFILE= 2	WSEL ASSUMED BASED ON MIN DIFF
CAUTION	SECNO= 3604.000	PROFILE= 2	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO= 3604.000	PROFILE= 2	HYDRAULIC JUMP D.S.
CAUTION	SECNO= 3604.000	PROFILE= 3	WSEL ASSUMED BASED ON MIN DIFF
CAUTION	SECNO= 3604.000	PROFILE= 3	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO= 3604.000	PROFILE= 3	HYDRAULIC JUMP D.S.
CAUTION	SECNO= 3604.000	PROFILE= 4	HYDRAULIC JUMP D.S.
CAUTION	SECNO= 5887.000	PROFILE= 2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 5887.000	PROFILE= 2	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 5887.000	PROFILE= 2	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO= 5887.000	PROFILE= 3	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 5887.000	PROFILE= 3	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 5887.000	PROFILE= 3	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO= 5887.000	PROFILE= 4	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 5887.000	PROFILE= 4	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 5887.000	PROFILE= 4	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO= 7041.000	PROFILE= 2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 7041.000	PROFILE= 2	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 7041.000	PROFILE= 2	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO= 7041.000	PROFILE= 3	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 7041.000	PROFILE= 3	PROBABLE MINIMUM SPECIFIC ENERGY

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 HEC2 RELEASE DATED NOV 75 UPDATED AUG 77  
 ERROR CORR = 01,02  
 MODIFICATION - 50,51,52,53  
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OCWF  
 FLOODWAY

C1 100YR NATURAL PROFILE JUN 1970 CWF  
 T1 ORANGE CO FIA STUDY  
 T2 CATES CREEK  
 T3 100YR NATURAL PROFILE JUN 1970 CWF

J1	ICHECK	IND	NIN	IDIR	STRT	METRIC	HVINS	Q	WSEL	FO
		0.000	0.000	0.000	0.000000	0.00	0.0	0.0	494.300	0.000

J2	NPROF	IPLT	PRFS	XSECV	XSECH	FN	ALLDC	LOW	CHIM	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									
	36.000	1.000	5.000	41.000	42.000	5.000	43.000	0.000	36.000	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	0.500	0.000	0.000	0.000	0.000	0.000
QT	5.000	3760.000	4660.000	5100.000	6810.000	5100.000	0.000	0.000	0.000	0.000
E1	0.000	0.000	0.000	0.000	0.000	7.400	0.000	0.000	0.000	0.000

END RIVER VALLEY SECTION

X1	145650.000	13.000	1000.000	1071.000	0.000	0.000	0.000	0.000	0.000	0.000
GR	520.000	300.000	510.000	450.000	500.000	600.000	690.000	950.000	485.000	1000.000
GR	480.500	1005.000	479.000	1035.000	480.500	1066.000	486.500	1071.000	490.000	1080.000
GR	500.000	1040.000	510.000	1100.000	520.000	1180.000	0.000	0.000	0.000	0.000
NC	0.120	0.120	0.060	0.000	0.000	0.000	0.000	0.000	0.000	0.000
QT	5.000	1050.000	1950.000	2470.000	3100.000	2470.000	0.000	0.000	0.000	0.000

UCA-1 VALLEY

X1	500.000	15.000	1000.000	1021.000	760.000	760.000	760.000	0.000	0.000	0.000
GR	513.300	523.000	503.500	623.000	503.000	646.000	500.100	723.000	495.000	823.000
GR	491.200	923.000	489.100	1000.000	484.100	1002.000	404.100	1008.000	484.600	1014.000
GR	486.400	1021.000	489.500	1071.000	511.200	1093.000	0.000	0.000	0.000	0.000

X1	1000.000	10.000	1000.000	1021.000	700.000	700.000	700.000	0.000	0.000	0.000
GR	510.000	250.000	500.000	710.000	490.000	980.000	490.500	1000.000	488.200	1003.000
GR	488.200	1018.000	490.500	1021.000	490.000	1025.000	506.000	1050.000	510.000	1060.000
QT	5.000	950.000	1770.000	2240.000	3730.000	2240.000	0.000	0.000	0.000	0.000

X1	2000.000	11.000	1000.000	1021.000	1000.000	1000.000	1000.000	0.000	0.000	0.000
GR	520.000	350.000	510.000	500.000	501.000	800.000	499.000	970.000	496.500	1000.000
GR	494.000	1003.000	494.000	1016.000	496.500	1021.000	500.000	1070.000	510.000	1160.000
GR	520.000	1400.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

X1	2030.000	0.000	0.000	0.000	50.000	30.000	30.000	0.000	0.100	0.000
X1	2050.000	20.000	1008.000	1012.000	10.000	10.000	10.000	0.000	0.000	0.000
GR	520.000	350.000	510.000	500.000	508.000	555.000	504.000	705.000	501.000	800.000
GR	500.400	855.000	499.200	955.000	499.000	970.000	496.300	1008.000	495.500	1008.000
GR	499.300	1009.200	494.300	1010.800	495.700	1012.000	496.300	1012.000	499.000	1055.000
GR	500.000	1070.000	508.500	1155.000	513.300	1255.000	516.100	1355.000	517.700	1455.000
NC	0.000	0.000	0.024	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	2054.000	0.000	0.000	0.000	4.000	4.000	4.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	499.000	499.000	0.000
BT	20.000	350.000	530.000	520.000	500.000	528.000	510.000	555.000	527.300	508.000
BT	705.000	509.700	504.000	800.000	505.000	501.000	855.000	502.300	500.400	955.000
BT	499.800	499.200	970.000	500.000	499.000	1008.000	501.500	496.300	1003.000	501.500
BT	497.100	1009.200	501.500	498.300	1010.800	501.600	498.500	1012.000	501.500	497.100
BT	1012.000	501.600	496.300	1055.000	503.400	499.000	1070.000	504.000	500.000	1155.000
BT	508.500	508.500	1255.000	513.300	513.300	1355.000	516.100	516.100	1455.000	517.700
BT	517.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
OCA-2 BR 1134										
X1	2106.000	20.000	1008.000	1012.000	52.000	52.000	52.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	500.500	500.500	0.000
BT	20.000	350.000	530.000	520.000	500.000	528.000	510.000	555.000	527.300	508.000
BT	705.000	509.700	504.000	800.000	505.000	501.000	855.000	502.300	500.400	955.000
BT	499.800	499.200	970.000	500.000	499.000	1008.000	501.500	497.500	1003.000	501.500
BT	498.300	1009.200	501.500	499.500	1010.800	501.600	499.500	1012.000	501.600	498.300
BT	1012.000	501.600	497.500	1055.000	503.400	499.000	1070.000	504.000	500.000	1155.000
BT	508.500	508.500	1255.000	513.300	513.300	1355.000	516.100	516.100	1455.000	517.700
BT	517.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
GR	520.000	350.000	510.000	500.000	508.000	555.000	504.000	705.000	501.000	800.000
GR	500.400	855.000	499.200	955.000	499.000	970.000	497.500	1008.000	495.700	1008.000
GR	495.500	1009.200	495.500	1010.800	496.700	1012.000	497.500	1012.000	499.000	1055.000
GR	500.000	1070.000	508.500	1155.000	513.300	1255.000	516.100	1355.000	517.700	1455.000
NC	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	2115.000	0.000	0.000	0.000	9.000	9.000	9.000	0.000	0.000	0.000
OCA-3 VALLIY										
X1	2200.000	17.000	1000.000	1022.000	55.000	55.000	5.000	0.000	0.000	0.000
GR	523.500	622.000	510.600	722.000	510.700	737.000	502.300	622.000	500.400	650.000
GR	499.800	922.000	499.800	1000.000	497.400	1004.000	497.500	1011.000	497.500	1019.000
GR	499.500	1022.000	505.300	1122.000	511.500	1222.000	514.100	1322.000	516.600	1422.000
GR	517.100	1522.000	517.500	1622.000	0.000	0.000	0.000	0.000	0.000	0.000
LT	0.000	0.000	0.000	0.000	0.000	4.400	0.000	0.000	0.000	0.000
X1	2400.000	9.000	1000.000	1021.000	200.000	200.000	200.000	0.000	0.000	0.000
GR	510.000	870.000	503.000	910.000	502.000	1000.000	500.000	1003.000	499.300	1010.000
GR	500.000	1013.000	502.000	1021.000	503.000	1140.000	510.000	1250.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	17.400	0.000	0.000	0.000	0.000
X1	5000.000	10.000	1000.000	1020.000	600.000	600.000	600.000	0.000	0.000	0.000
GR	520.000	760.000	510.000	900.000	508.000	960.000	507.300	1000.000	505.500	1003.000
GR	505.100	1010.000	505.500	1017.000	507.300	1020.000	510.000	1070.000	520.000	1250.000
ET	0.000	0.000	0.000	0.000	0.000	3.400	0.000	0.000	0.000	0.000

X1	3500.000	10.000	1000.000	1020.000	500.000	500.000	500.000	0.000	0.000	0.000
GR	530.000	790.000	520.000	870.000	515.000	950.000	512.200	1000.000	510.500	1003.000
GR	510.000	1010.000	510.500	1017.000	512.200	1020.000	520.000	1050.000	530.000	1280.000
ET	0.000	0.000	0.000	0.000	0.000	5.400	0.000	0.000	0.000	0.000

X1	3556.000	9.000	1000.000	1020.000	56.000	56.000	56.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	517.500	517.500	0.000
GR	530.000	790.000	520.000	870.000	515.000	950.000	512.200	1000.000	510.400	1000.000
GR	510.400	1020.000	512.500	1020.000	520.000	1050.000	530.000	1280.000	0.000	0.000
SB	1.250	1.500	3.000	0.000	20.500	0.500	140.000	0.000	511.500	510.400

OCA-4 US HWY 7 BUS.

X1	3604.000	10.000	1000.000	1020.000	48.000	48.000	48.000	0.000	0.000	0.000
X2	0.000	0.000	1.000	517.400	519.700	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	521.000	521.000	0.000
BT	10.000	790.000	530.000	0.000	810.000	520.500	0.000	674.000	519.700	0.000
BT	974.000	519.800	0.000	1000.000	520.200	0.000	1020.000	520.500	0.000	1074.000
BT	521.200	0.000	1174.000	524.200	0.000	1274.000	525.200	0.000	1374.000	532.700
BT	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
GR	530.000	770.000	520.000	900.000	514.000	950.000	513.500	1000.000	511.500	1000.000
GR	511.500	1020.000	513.500	1020.000	514.000	1030.000	520.000	1060.000	530.000	1400.000

X1	3625.000	11.000	1000.000	1017.000	21.000	21.000	21.000	0.000	0.000	0.000
GR	530.000	770.000	520.000	900.000	514.000	950.000	513.500	1000.000	512.000	1002.000
GR	511.500	1009.000	512.000	1015.000	513.500	1017.000	514.000	1030.000	520.000	1060.000
GR	530.000	1400.000	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	10.400	0.000	0.000	0.000	0.000

OCA-5 VALLEY

X1	3740.000	12.000	1000.000	1017.000	115.000	115.000	115.000	0.000	0.000	0.000
GR	535.000	703.000	526.300	883.000	518.600	983.000	515.400	1000.000	511.000	1003.000
GR	511.200	1008.000	511.800	1014.000	512.900	1017.000	515.200	1085.000	517.000	1147.000
GR	522.700	1183.000	534.100	1283.000	0.000	0.000	0.000	0.000	0.000	0.000

X1	3900.000	11.000	1000.000	1020.000	160.000	160.000	160.000	0.000	0.000	0.000
GR	530.000	860.000	520.000	940.000	516.000	980.000	515.000	1000.000	513.000	1003.000
GR	512.600	1010.000	513.000	1017.000	515.000	1020.000	517.000	1140.000	520.000	1160.000
GR	530.000	1230.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

X1	4000.000	0.000	0.000	0.000	100.000	100.000	100.000	0.000	0.900	0.000
ET	0.000	0.000	0.000	0.000	0.000	12.400	0.000	0.000	0.000	0.000

X1	4100.000	0.000	0.000	0.000	100.000	100.000	100.000	0.000	0.900	0.000
ET	0.000	0.000	0.000	0.000	0.000	8.400	0.000	0.000	0.000	0.000

X1	4450.000	13.000	1000.000	1020.000	550.000	550.000	550.000	0.000	0.000	0.000
GR	550.000	570.000	540.000	730.000	530.000	860.000	521.000	940.000	520.000	1000.000
GR	518.000	1003.000	517.600	1010.000	518.000	1017.000	520.000	1020.000	521.000	1060.000
GR	530.000	1160.000	540.000	1200.000	550.000	1260.000	0.000	0.000	0.000	0.000

X1	5850.000	12.000	1000.000	1020.000	1400.000	1400.000	1400.000	0.000	0.000	0.000
GR	560.000	820.000	550.000	710.000	540.000	860.000	534.000	940.000	535.000	1000.000
GR	530.700	1003.000	530.200	1010.000	530.500	1017.000	533.000	1020.000	540.000	1060.000
GR	550.000	1100.000	560.000	1340.000	0.000	0.000	0.000	0.000	0.000	0.000



X1	5880.000	21.000	1000.000	1030.200	30.000	30.000	30.000	0.000	0.000	0.000
GR	552.600	678.000	545.600	778.000	537.500	878.000	554.000	940.000	533.000	978.000
GR	532.700	1000.000	530.500	1002.200	530.500	1005.200	532.700	1007.400	532.700	1011.400
GR	530.500	1015.600	530.500	1016.600	532.700	1018.800	532.700	1022.800	530.500	1025.000
GR	530.500	1028.000	532.700	1030.200	540.000	1050.000	546.200	1078.000	550.000	1100.000
GR	560.000	1340.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NC	0.000	0.000	0.032	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	5.400	0.000	0.000	0.000	0.000
X1	5887.000	0.000	0.000	0.000	7.000	7.000	7.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	540.000	540.000	0.000
BT	27.000	678.000	552.600	552.600	778.000	545.600	545.600	878.000	543.800	537.500
BT	940.000	543.700	534.000	978.000	543.600	533.000	1000.000	544.100	532.700	1000.000
BT	544.100	535.700	1002.200	544.100	537.900	1005.200	544.200	537.900	1007.400	544.200
BT	535.700	1007.400	544.200	532.700	1011.400	543.500	532.700	1011.400	544.300	535.700
BT	1013.600	544.400	537.900	1016.600	544.400	537.900	1018.800	544.500	535.700	1018.800
BT	544.500	532.700	1022.800	544.600	532.700	1022.800	544.600	532.700	1025.000	544.700
BT	537.900	1028.000	544.800	537.900	1030.200	544.800	535.700	1030.200	544.800	532.700
BT	1050.000	545.300	540.000	1078.000	546.200	546.200	1100.000	550.000	550.000	1340.000
BT	560.000	560.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
OCA-6A UNNAMED ROAD										
X1	5972.000	25.000	1000.000	1030.200	65.000	65.000	65.000	0.000	0.000	0.000
X3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	544.500	544.500	0.000
BT	25.000	890.000	552.100	552.100	918.000	545.600	545.600	950.000	545.000	538.200
BT	1000.000	544.100	533.000	1000.000	544.100	536.000	1002.200	544.100	538.200	1005.200
BT	544.000	538.200	1007.400	544.000	536.000	1007.400	544.000	533.000	1011.400	543.900
BT	533.000	1011.400	543.900	536.000	1013.600	543.900	538.200	1016.600	543.800	538.200
BT	1018.800	543.800	538.000	1018.800	543.800	533.000	1022.800	543.800	533.000	1022.800
BT	543.800	536.000	1025.000	543.800	533.200	1028.000	543.600	538.200	1030.200	543.600
BT	536.000	1030.200	543.600	533.000	1030.000	543.600	538.000	1118.000	543.600	538.200
BT	1218.000	546.200	546.200	1277.000	554.200	554.200	0.000	0.000	0.000	0.000
GR	552.100	890.000	545.600	918.000	538.200	950.000	533.000	1000.000	533.000	1000.000
GR	534.800	1002.200	530.800	1005.200	533.000	1007.400	533.000	1007.400	533.000	1011.400
GR	533.000	1011.400	530.800	1013.600	530.800	1016.600	533.000	1018.800	533.000	1018.800
GR	533.000	1022.800	533.000	1022.800	530.800	1025.000	530.800	1028.000	533.000	1030.200
GR	533.000	1030.200	536.000	1030.000	538.200	1118.000	543.600	1218.000	546.200	1277.000
NC	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	15.400	0.000	0.000	0.000	0.000
X1	5990.000	0.000	0.000	0.000	15.000	15.000	15.000	0.000	0.000	0.000
OCA-6 VALLEY										
X1	6010.000	11.000	1000.000	1022.000	20.000	20.000	20.000	0.000	0.000	0.000
GR	552.100	891.000	538.200	952.000	535.500	951.000	535.000	1000.000	532.100	1007.000
GR	531.900	1012.000	532.200	1021.000	534.200	1022.000	535.000	1041.000	546.500	1191.000
GR	554.200	1277.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	6200.000	13.000	1000.000	1028.000	190.000	190.000	190.000	0.000	0.000	0.000
GR	560.000	760.000	550.000	840.000	540.000	900.000	535.000	920.000	537.000	1000.000
GR	535.000	1003.000	534.000	1010.000	535.000	1017.000	537.000	1020.000	536.000	1043.000
GR	540.000	1060.000	550.000	1140.000	560.000	1260.000	0.000	0.000	0.000	0.000
X1	6250.000	0.000	0.000	0.000	50.000	50.000	50.000	0.000	0.000	0.000

	500,000	750,000	1,000,000	1,020,000	150,000	150,000	150,000	0,000	0,000	0,000
GR	560.000	750.000	550.000	820.000	543.000	890.000	540.000	1000.000	537.500	1003.000
GR	537.100	1010.000	537.500	1017.000	540.000	1020.000	543.000	1100.000	550.000	1250.000
GR	560.000	1300.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
QT	5.000	910.000	1700.000	2151.000	3500.000	2151.000	0.000	0.000	0.000	0.000
X1	6780.000	11.000	1000.000	1020.000	380.000	380.000	380.000	0.000	0.000	0.000
GR	560.000	750.000	550.000	870.000	547.000	900.000	545.000	1000.000	543.000	1003.000
GR	542.200	1010.000	543.000	1017.000	545.000	1020.000	547.000	1250.000	550.000	1320.000
GR	560.000	1360.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
QT	5.000	850.000	1590.000	2010.000	3360.000	2010.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	4.400	0.000	0.000	0.000	0.000
X1	7000.000	9.000	1000.000	1020.000	220.000	220.000	220.000	0.000	0.000	0.000
GR	560.000	700.000	550.000	880.000	548.000	1000.000	545.500	1003.000	545.100	1010.000
GR	545.500	1017.000	548.000	1020.000	550.000	1550.000	560.000	1500.000	0.000	0.000
X1	7041.000	8.000	1000.000	1022.000	41.000	41.000	41.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	575.000	575.000	0.000
GR	560.000	700.000	550.000	880.000	548.000	1000.000	545.700	1000.000	545.700	1022.000
GR	548.000	1022.000	550.000	1550.000	560.000	1600.000	0.000	0.000	0.000	0.000
SB	1.250	1.900	3.000	500.000	22.000	1.000	168.000	0.000	547.600	545.700
UCA-7 INTERSTATE 85										
X1	7430.000	11.000	1000.000	1022.000	595.000	595.000	595.000	0.000	0.000	0.000
X2	0.000	0.000	1.000	555.600	580.900	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	581.000	581.000	0.000
GR	590.000	920.000	560.000	965.000	551.000	980.000	550.000	1000.000	547.600	1000.000
GR	547.600	1022.000	550.000	1022.000	560.000	1040.000	570.000	1000.000	560.000	1110.000
GR	590.000	1160.000	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	977.000	1029.000	0.000	0.000
X1	7450.000	12.000	1000.000	1020.000	14.000	14.000	14.000	0.000	0.000	0.000
GR	590.000	920.000	560.000	965.000	551.000	980.000	550.000	1000.000	540.000	1003.000
GR	547.700	1010.000	548.000	1017.000	550.000	1020.000	560.000	1030.000	570.000	1000.000
GR	560.000	1110.000	590.000	1160.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	7500.000	0.000	0.000	0.000	50.000	50.000	50.000	0.000	0.100	0.000
ET	0.000	0.000	0.000	0.000	0.000	10.400	0.000	0.000	0.000	0.000
X1	7700.000	12.000	1000.000	1020.000	200.000	200.000	200.000	0.000	0.000	0.000
GR	590.000	900.000	560.000	945.000	551.000	960.000	550.000	1000.000	540.500	1003.000
GR	548.000	1010.000	548.500	1017.000	550.000	1020.000	560.000	1050.000	570.000	1100.000
GR	560.000	1150.000	590.000	1200.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	7735.000	15.000	990.000	1030.000	35.000	35.000	35.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
GR	590.000	900.000	560.000	945.000	552.000	960.000	552.500	990.000	548.500	995.000
GR	548.100	1000.000	548.100	1010.000	549.800	1015.000	551.000	1020.000	557.800	1025.000
GR	550.000	1050.000	560.000	1050.000	570.000	1100.000	560.000	1150.000	590.000	1200.000
SB	1.000	1.600	3.000	0.000	50.600	0.050	644.000	0.280	540.200	510.100
UCA-8 SOUTHERN RR										
X1	7745.000	15.000	990.000	1030.000	10.000	10.000	10.000	0.000	0.000	0.000
X2	0.000	0.000	1.000	571.400	570.100	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	0.000	0.000	0.000

BT	12.000	800.000	590.000	0.000	820.000	578.100	0.000	880.000	578.100	0.000
BT	980.000	578.400	0.000	990.000	578.500	0.000	1030.000	578.600	0.000	1080.000
BT	579.000	0.000	1180.000	580.200	0.000	1280.000	581.200	0.000	1380.000	582.000
BT	0.000	1445.000	582.600	0.000	2200.000	590.000	0.000	0.000	0.000	0.000
GR	582.600	667.000	559.500	915.000	555.500	967.000	552.300	990.000	548.300	995.000
GR	548.100	1000.000	548.100	1010.000	549.800	1015.000	551.000	1020.000	552.000	1030.000
GR	553.400	1067.000	554.000	1110.000	572.900	1161.000	580.000	1260.000	590.000	1330.000
X1	7765.000	13.000	1000.000	1017.000	20.000	20.000	20.000	0.000	-2.000	0.000
GR	582.600	667.000	559.500	915.000	555.500	967.000	552.400	1000.000	550.400	1003.000
GR	550.500	1010.000	550.500	1016.000	551.700	1017.000	553.400	1067.000	554.000	1110.000
GR	572.900	1161.000	580.000	1260.000	590.000	1330.000	0.000	0.000	0.000	0.000
UCA-9 VALLEY										
X1	7900.000	0.000	0.000	0.000	135.000	135.000	135.000	0.000	2.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	8.400	0.000	0.000	0.000	0.000
X1	8200.000	0.000	0.000	0.000	300.000	300.000	300.000	0.000	2.300	0.000
X1	8500.000	0.000	0.000	0.000	300.000	300.000	300.000	0.000	2.300	0.000
ET	0.000	0.000	0.000	0.000	0.000	5.400	0.000	0.000	0.000	0.000
X1	9000.000	11.000	1000.000	1023.000	500.000	500.000	500.000	0.000	-3.300	0.000
GR	594.400	753.000	584.100	853.000	567.300	940.000	566.600	953.000	564.400	1000.000
GR	562.700	1003.000	562.300	1013.000	562.700	1022.000	564.500	1023.000	576.700	1053.000
GR	586.400	1086.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
UCA-10 VALLEY										
X1	9430.000	0.000	0.000	0.000	430.000	430.000	430.000	0.000	3.300	0.000
QT	5.000	720.000	1350.000	1715.000	2870.000	1715.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.400	0.000	0.000	0.000	0.000
UCA-11 VALLEY										
X1	10660.000	11.000	1000.000	1018.000	1230.000	1230.000	1230.000	0.000	0.000	0.000
GR	598.200	827.000	583.300	927.000	578.200	1000.000	572.000	1003.000	571.000	1008.000
GR	572.400	1013.000	576.600	1016.000	576.600	1027.000	576.700	1115.000	571.500	1127.000
GR	597.700	1212.000	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	10.400	0.000	0.000	0.000	0.000
UCA-12 VALLEY										
X1	13000.000	12.000	1000.000	1017.000	2740.000	2740.000	2740.000	0.000	0.000	0.000
GR	610.700	682.000	594.200	782.000	586.600	882.000	584.700	952.000	585.400	1000.000
GR	582.400	1002.000	582.400	1008.000	582.700	1014.000	585.700	1017.000	586.800	1082.000
GR	599.300	1182.000	605.200	1227.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	13500.000	11.000	1000.000	1017.000	500.000	500.000	500.000	0.000	0.000	0.000
GR	610.000	680.000	600.000	900.000	587.500	950.000	587.000	1000.000	584.500	1002.000
GR	584.000	1008.000	584.500	1014.000	587.000	1017.000	587.500	1080.000	600.000	1170.000
GR	610.000	1400.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	13575.000	12.000	1000.000	1005.400	75.000	75.000	75.000	0.000	0.000	0.000

GR	610.000	650.000	600.000	900.000	587.500	950.000	586.900	1000.000	585.800	1000.000
GR	584.200	1001.200	584.200	1003.800	585.800	1005.400	586.900	1005.400	587.500	1000.000
GR	600.000	1170.000	610.000	1400.000	0.000	0.000	0.000	0.000	0.000	0.000
NC	0.000	0.000	0.024	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	7.400	0.000	0.000	0.000	0.000

X1	13579.000	16.000	1000.000	1005.400	4.000	4.000	4.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	591.000	591.000	0.000
BT	16.000	680.000	610.000	610.000	900.000	600.000	600.000	925.000	593.000	593.000
BT	950.000	592.500	587.500	982.000	592.500	587.200	1000.000	592.200	586.900	1000.000
BT	592.200	588.000	1001.600	592.200	589.000	1003.800	592.200	589.000	1005.400	592.200
BT	588.000	1005.400	592.200	586.900	1067.000	592.200	587.400	1080.000	592.200	587.500
BT	1115.000	592.300	592.300	1170.000	600.000	600.000	1400.000	610.000	610.000	0.000
GR	610.000	680.000	600.000	900.000	593.000	925.000	587.500	950.000	587.200	982.000
GR	586.900	1000.000	585.800	1000.000	584.200	1001.600	584.200	1003.800	585.800	1005.400
GR	586.900	1005.400	587.400	1067.000	587.500	1080.000	592.500	1115.000	600.000	1170.000
GR	610.000	1400.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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X1	13620.000	16.000	1000.000	1005.400	41.000	41.000	41.000	1.000	0.400	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	592.500	592.500	0.000
BT	16.000	680.000	610.000	610.000	900.000	600.000	600.000	925.000	593.000	593.000
BT	950.000	592.500	587.500	982.000	592.500	587.200	1000.000	592.200	587.300	1000.000
BT	592.200	588.400	1001.600	592.200	590.000	1003.800	592.200	590.000	1005.400	592.200
BT	588.400	1005.400	592.200	587.300	1067.000	592.200	587.400	1000.000	592.200	587.500
BT	1115.000	592.300	592.300	1170.000	600.000	600.000	1400.000	610.000	610.000	0.000
GR	610.000	680.000	600.000	900.000	593.000	925.000	587.500	950.000	587.200	982.000
GR	587.300	1000.000	586.200	1000.000	584.600	1001.200	584.600	1003.800	586.200	1005.400
GR	587.300	1005.400	587.400	1067.000	587.500	1080.000	592.500	1115.000	600.000	1170.000
GR	610.000	1400.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NC	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

X1	13625.000	0.000	0.000	0.000	5.000	5.000	5.000	0.000	0.000	0.000
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X1	13650.000	11.000	1000.000	1017.000	25.000	25.000	25.000	0.000	0.000	0.000
GR	610.000	750.000	600.000	920.000	584.000	970.000	587.000	1000.000	795.000	1000.000
GR	584.900	1006.000	585.500	1014.000	587.500	1017.000	583.500	1100.000	700.000	1550.000
GR	610.000	1500.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

X1	14270.000	15.000	1000.000	1010.000	620.000	620.000	620.000	0.000	0.000	0.000
GR	620.000	260.000	610.000	600.000	600.000	600.000	592.000	970.000	591.500	1000.000
GR	590.000	1003.000	589.100	1006.000	590.600	1011.000	591.500	1116.500	592.000	1000.000
GR	600.000	1260.000	610.000	1320.000	620.000	1480.000	0.000	0.000	0.000	0.000
BT	5.000	415.000	790.000	1010.000	1710.000	1010.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.400	0.000	0.000	0.000	0.000

X1	14680.000	15.000	1000.000	1014.000	410.000	410.000	410.000	0.000	0.000	0.000
GR	615.000	700.000	610.000	850.000	600.000	950.000	595.000	970.000	594.000	1000.000
GR	592.500	1002.000	591.900	1007.000	592.500	1012.000	594.000	1014.000	595.000	1080.000
GR	600.000	1100.000	610.000	1150.000	620.000	1200.000	0.000	0.000	0.000	0.000

OCA-14 VALLEY

X1	15200.000	13.000	1000.000	1013.000	520.000	520.000	520.000	0.000	0.000	0.000
GR	618.600	644.000	611.600	744.000	600.900	844.000	597.900	944.000	597.400	1000.000
GR	596.200	1001.000	595.500	1007.000	595.800	1011.000	596.100	1013.000	597.600	1054.000
GR	600.500	1044.000	613.800	1144.000	619.400	1237.000	0.000	0.000	0.000	0.000

X1	15400.000	0.000	0.000	0.000	200.000	200.000	200.000	0.000	2.200	0.000
DT	5.000	360.000	690.000	885.000	1501.000	885.000	0.000	0.000	0.000	0.000

UCA-15 VALLEY

X1	16000.000	13.000	1000.000	1012.000	860.000	880.000	880.000	0.000	0.000	0.000
GR	627.200	765.000	614.500	865.000	609.400	929.000	607.000	965.000	607.700	1000.000
GR	605.400	1002.000	605.200	1005.000	605.000	1009.000	607.300	1012.000	608.200	1065.000
GR	614.700	1165.000	624.200	1265.000	627.200	1342.000	0.000	0.000	0.000	0.000
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  
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T1 ORANGE CO FIA STUDY  
 T2 CATES CREEK  
 T3 100YR FLOODWAY PROFILE JUN 1978 CWF

J1	ICHECK	INV	NINV	IDIR	DIRT	MEIRIC	UVINS	W	WSEL	FW
	-10.	6.	0.	0.	0.000000	0.00	0.0	0.	495.500	0.000
J2	NPROF	IPL01	PRFVS	XSECV	XSLCH	FN	ALLDC	LDW	CHNIM	ITRACL
	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= 0.500  
 \*SECNO 145650.000  
 2800 NAT Q1= 1805.29 WSEL= 494.30 ENC Q1= 1805.29 WSEL= 495.00 RATIO= 0.0000

NAT Q1=	2013.	RATIOS	LOB,CH,ROB=	0.1247	0.8587	0.0166	WSEL=	495.00	
SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	GLOSS	BANK ELEV
Q	ULOB	QCH	GRUB	ALOB	ACH	ARUB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	ATR	ELRIB	SSIA
SLOPE	XLOBL	XLCH	XLUBR	ITRIAL	IDL	ICONT	LDRAK	LDRAID	ENDST

3470 ENCROACHMENT STATIONS= 969.1 1071.0 TYPE= 4 TARGET= 0.103

END RIVER VALLEY SECTION

145650.00	16.30	495.50	0.00	494.30	495.61	0.31	0.00	0.00	488.80
5100.	245.	4855.	0.	189.	1061.	0.	0.	0.	486.50
0.00	1.30	4.58	0.00	0.100	0.050	0.100	0.000	479.00	969.09
0.000851	0.	0.	0.	0	0	0	0.00	171.91	1071.00

FLOW DISTRIBUTION FOR SECNO= 145650.00 CWSEL= 495.30

STA=	969.	1000.	1071.
PER Q=	4.8	95.2	
AREA=	189.4	1060.8	
VEL=	1.5	4.6	

\*SECNO 300.000  
 2800 NAT Q1= 574.75 WSEL= 495.21 ENC Q1= 574.75 WSEL= 495.91 RATIO= 0.0000  
 NAT Q1= 682. RATIOS LOB,CH,ROB= 0.3335 0.3720 0.2946 WSEL= 495.91

3470 ENCROACHMENT STATIONS= 920.8 1060.8 TYPE= 4 TARGET= 0.157

UCA-1 VALLEY

300.00	12.14	496.24	0.00	495.21	496.40	0.16	0.78	0.02	489.10
2470.	770.	1060.	632.	480.	257.	342.	20.	2.	486.40
0.07	1.62	4.47	1.85	0.120	0.060	0.120	0.060	484.10	920.76

\*\*\*\*\*  
 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

K NATURAL PROFILE, JUN 1

SUMMARY PRINTOUT

SECNO	CWSEL	EG	ELLC	ELMIN	10K*5	Q
145650.000	494.50	494.58	0.00	479.00	7.98	5100.00
145650.000	495.50	495.61	0.00	479.00	8.51	5100.00
300.000	495.21	495.37	0.00	484.10	18.07	2470.00
500.000	496.24	496.40	0.00	484.10	15.82	2470.00
1000.000	496.85	497.07	0.00	488.20	32.62	2470.00
1000.000	497.78	498.00	0.00	488.20	34.60	2470.00
2000.000	501.46	502.00	0.00	494.00	83.64	2240.00
2000.000	502.53	503.01	0.00	494.00	77.54	2240.00
2050.000	501.01	502.24	0.00	494.10	66.29	2240.00
2050.000	502.70	503.23	0.00	494.10	59.92	2240.00
2050.000	502.20	502.34	0.00	494.30	87.20	2240.00
2050.000	503.16	503.33	0.00	494.30	71.95	2240.00
* 2054.000	503.20	504.17	520.00	494.30	511.25	2240.00
* 2054.000	503.61	504.96	520.00	494.30	751.50	2240.00
2106.000	504.89	505.07	520.00	495.50	76.82	2240.00
2106.000	505.77	505.96	520.00	495.50	75.20	2240.00
2115.000	505.09	505.11	0.00	495.50	9.88	2240.00
2115.000	505.96	505.99	0.00	495.50	8.86	2240.00
2200.000	505.16	505.23	0.00	497.40	16.57	2240.00
2200.000	506.01	506.11	0.00	497.40	15.28	2240.00
2400.000	505.63	505.87	0.00	499.30	67.56	2240.00
2400.000	506.39	506.77	0.00	499.30	73.93	2240.00
3000.000	511.16	511.85	0.00	505.10	153.11	2240.00
3000.000	512.16	513.44	0.00	505.10	167.54	2240.00
3500.000	517.27	517.88	0.00	510.00	97.49	2240.00
3500.000	518.16	518.74	0.00	510.00	71.46	2240.00



SECNO	CASEL	EG	ELLC	ELMIN	10KAS	U
3556.000	517.95	518.35	0.00	510.40	65.98	2240.00
3556.000	518.76	519.15	0.00	510.40	67.39	2240.00
* 3604.000	521.48	521.60	517.40	511.50	16.44	2240.00
3604.000	522.29	522.43	0.00	511.50	14.78	2240.00
3625.000	521.51	521.64	0.00	511.50	17.35	2240.00
3625.000	522.32	522.46	0.00	511.50	15.55	2240.00
3740.000	521.72	521.81	0.00	511.20	12.48	2240.00
3740.000	522.55	522.65	0.00	511.20	15.81	2240.00
3900.000	521.94	522.03	0.00	512.60	14.26	2240.00
3900.000	522.78	522.90	0.00	512.60	14.61	2240.00
4000.000	522.09	522.21	0.00	513.50	22.21	2240.00
4000.000	522.91	523.10	0.00	513.50	23.82	2240.00
4100.000	522.32	522.50	0.00	514.40	34.11	2240.00
4100.000	523.13	523.45	0.00	514.40	41.58	2240.00
4450.000	524.75	525.10	0.00	517.60	66.39	2240.00
4450.000	525.75	526.10	0.00	517.60	59.30	2240.00
5850.000	537.24	538.04	0.00	530.20	134.07	2240.00
5850.000	538.09	539.06	0.00	530.20	156.23	2240.00
5880.000	538.02	538.35	0.00	530.50	59.54	2240.00
5880.000	539.01	539.40	0.00	530.50	61.55	2240.00
* 5887.000	545.45	546.45	560.00	530.50	152.77	2240.00
* 5887.000	545.58	547.15	560.00	530.50	242.85	2240.00
5972.000	546.79	547.13	554.20	530.80	42.58	2240.00
5972.000	547.54	547.93	554.20	530.80	38.00	2240.00
5990.000	547.15	547.17	0.00	530.80	1.39	2240.00
5990.000	547.95	547.97	0.00	530.80	1.58	2240.00
6010.000	547.15	547.18	0.00	531.90	1.74	2240.00
6010.000	547.95	547.98	0.00	531.90	2.21	2240.00
6200.000	547.19	547.23	0.00	534.00	3.95	2240.00
6200.000	547.99	548.04	0.00	534.00	4.57	2240.00
6250.000	547.21	547.26	0.00	534.60	5.31	2240.00
6250.000	548.00	548.08	0.00	534.60	6.27	2240.00
6400.000	547.30	547.37	0.00	537.10	10.17	2240.00
6400.000	548.11	548.21	0.00	537.10	12.28	2240.00
6780.000	548.01	548.35	0.00	542.20	114.70	2151.00
6780.000	548.78	549.58	0.00	542.20	188.59	2151.00
7000.000	550.43	550.64	0.00	545.10	93.28	2010.00
7000.000	551.47	551.60	0.00	545.10	50.07	2010.00

SECNO	CHSEL	EG	ELLC	ELMIN	10K*5	Q
* 7041.000	552.05	555.26	0.00	545.70	445.72	2010.00
* 7041.000	552.06	555.26	0.00	545.70	527.51	2010.00
* 7436.000	555.72	557.68	555.60	547.60	213.18	2010.00
* 7436.000	556.12	557.90	555.60	547.60	184.58	2010.00
7450.000	557.27	557.93	0.00	547.70	55.45	2010.00
7450.000	557.42	558.14	0.00	547.70	55.61	2010.00
7500.000	557.58	558.22	0.00	547.80	50.59	2010.00
7500.000	557.61	558.41	0.00	547.80	46.06	2010.00
7700.000	558.63	558.88	0.00	548.00	20.89	2010.00
7700.000	558.76	559.14	0.00	548.00	28.09	2010.00
7735.000	558.69	558.96	0.00	548.10	22.38	2010.00
7735.000	558.85	559.26	0.00	548.10	33.66	2010.00
7745.000	558.69	559.17	571.40	548.10	32.90	2010.00
7745.000	559.69	560.08	571.40	548.10	23.81	2010.00
7765.000	559.19	559.24	0.00	548.40	6.86	2010.00
7765.000	560.07	560.14	0.00	548.40	6.96	2010.00
7900.000	559.29	559.40	0.00	550.40	17.48	2010.00
7900.000	560.15	560.31	0.00	550.40	16.32	2010.00
8200.000	560.00	560.24	0.00	552.70	45.82	2010.00
8200.000	560.86	561.18	0.00	552.70	45.09	2010.00
8500.000	561.64	561.99	0.00	555.00	73.88	2010.00
8500.000	562.45	562.95	0.00	555.00	74.95	2010.00
9000.000	565.00	566.72	0.00	559.00	116.43	2010.00
9000.000	566.79	567.61	0.00	559.00	113.75	2010.00
9430.000	569.98	570.54	0.00	562.30	69.13	2010.00
9430.000	570.89	571.42	0.00	562.30	69.78	2010.00
10660.000	579.60	580.04	0.00	571.80	66.32	1715.00
10660.000	580.51	580.97	0.00	571.80	68.69	1715.00
13000.000	590.11	590.19	0.00	582.40	20.14	1715.00
13000.000	591.08	591.19	0.00	582.40	20.32	1715.00
13500.000	591.44	591.64	0.00	584.00	42.57	1715.00
13500.000	592.39	592.68	0.00	584.00	43.28	1715.00
13575.000	591.88	591.98	0.00	584.20	47.08	1715.00
13575.000	592.89	593.03	0.00	584.20	46.20	1715.00
* 13579.000	594.57	595.39	610.00	584.20	191.25	1715.00
* 13579.000	595.24	596.44	610.00	584.20	205.48	1715.00
13620.000	595.63	595.89	610.00	585.00	69.17	1715.00
13620.000	596.64	596.94	610.00	585.00	57.74	1715.00



R NATURAL PROFILE JUN 1

SUMMARY PRINTOUT

SECNO	CWSEL	SSTA	SICHL	SICHR	ENDST	TOPWID
145650.000	494.50	799.50	1000.00	1071.00	1084.50	284.80
145650.000	495.30	969.09	1000.00	1071.00	1071.00	101.91
300.000	495.21	839.34	1000.00	1021.00	1076.79	237.46
300.000	496.24	920.76	1000.00	1021.00	1060.76	140.00
1000.000	496.85	795.00	1000.00	1021.00	1042.13	247.13
1000.000	497.78	912.60	1000.00	1021.00	1021.00	108.40
2000.000	501.46	784.73	1000.00	1021.00	1083.12	298.40
2000.000	502.53	922.60	1000.00	1021.00	1030.68	108.07
2030.000	501.81	776.30	1000.00	1021.00	1085.40	509.09
2030.000	502.70	909.66	1000.00	1021.00	1032.57	122.91
2050.000	502.20	761.93	1008.00	1012.00	1092.02	530.09
2050.000	503.16	876.91	1008.00	1012.00	1041.07	164.16
* 2054.000	503.20	730.56	1008.00	1012.00	1101.99	571.63
* 2054.000	503.61	926.59	1008.00	1012.00	1012.00	85.40
2106.000	504.89	671.61	1008.00	1012.00	1118.90	447.29
2106.000	505.77	876.86	1008.00	1012.00	1012.00	135.14
2115.000	505.09	664.23	1008.00	1012.00	1120.87	456.64
2115.000	505.96	796.92	1008.00	1012.00	1057.46	260.54
2200.000	505.16	790.87	1000.00	1022.00	1119.53	528.66
2200.000	506.01	848.57	1000.00	1022.00	1035.05	186.49
2400.000	505.63	694.95	1000.00	1021.00	1181.58	206.45
2400.000	506.39	957.84	1000.00	1021.00	1100.61	142.77
3000.000	511.16	683.66	1000.00	1020.00	1092.17	208.51
3000.000	512.18	957.37	1000.00	1020.00	1020.43	63.06
3500.000	517.27	901.26	1000.00	1020.00	1039.47	139.19
3500.000	518.16	938.01	1000.00	1020.00	1020.72	82.71
3556.000	517.95	893.50	1000.00	1020.00	1041.84	140.54
3556.000	518.76	940.25	1000.00	1020.00	1020.00	79.75
* 3604.000	521.46	660.75	1000.00	1020.00	1110.56	227.61
3604.000	522.29	927.46	1000.00	1020.00	1040.56	113.10
3625.000	521.51	886.50	1000.00	1017.00	1111.53	231.23
3625.000	522.32	926.93	1000.00	1017.00	1041.09	114.16
3740.000	521.72	946.57	1000.00	1017.00	1176.77	254.19
3740.000	522.55	1000.00	1000.00	1017.00	1123.96	123.96
3900.000	521.94	924.51	1000.00	1020.00	1173.56	249.05
3900.000	522.78	979.64	1000.00	1020.00	1124.18	144.54

SECNO	CWSEL	SSTA	SICHL	SICHR	ENDSI	TOPWID
4000.000	522.09	930.58	1000.00	1020.00	1168.24	237.66
4000.000	522.91	984.92	1000.00	1020.00	1117.68	132.76
4100.000	522.52	935.85	1000.00	1020.00	1163.63	227.78
4100.000	523.13	994.72	1000.00	1020.00	1106.61	111.89
4450.000	524.75	906.65	1000.00	1020.00	1101.69	195.04
4450.000	525.75	951.13	1000.00	1020.00	1051.86	100.74
5850.000	537.24	896.77	1000.00	1020.00	1044.24	147.47
5850.000	538.09	955.62	1000.00	1020.00	1020.00	69.58
5880.000	538.02	871.42	1000.00	1030.20	1044.66	173.24
5880.000	539.01	948.54	1000.00	1030.20	1030.20	81.66
* 5887.000	545.45	779.84	1000.00	1030.20	1074.62	294.77
* 5887.000	545.58	929.29	1000.00	1030.20	1030.20	100.91
5972.000	546.79	912.87	1000.00	1030.20	1222.55	309.48
5972.000	547.54	988.98	1000.00	1030.20	1154.51	145.53
5990.000	547.15	911.51	1000.00	1030.20	1225.03	313.72
5990.000	547.95	957.66	1000.00	1030.20	1131.06	173.21
6010.000	547.15	912.71	1000.00	1022.00	1200.28	287.57
6010.000	547.95	959.67	1000.00	1022.00	1118.65	158.98
6200.000	547.19	856.89	1000.00	1020.00	1117.48	260.58
6200.000	547.99	911.77	1000.00	1020.00	1052.94	141.17
6250.000	547.21	861.55	1000.00	1020.00	1111.27	249.72
6250.000	548.00	916.43	1000.00	1020.00	1047.52	150.90
6400.000	547.30	846.95	1000.00	1020.00	1192.24	345.20
6400.000	548.11	925.55	1000.00	1020.00	1081.25	155.71
6780.000	548.01	889.94	1000.00	1020.00	1273.48	383.54
6780.000	548.78	1000.00	1000.00	1020.00	1103.05	103.05
7000.000	550.43	872.22	1000.00	1020.00	1552.16	679.94
7000.000	551.47	1000.00	1000.00	1020.00	1296.43	296.43
* 7041.000	552.05	1000.00	1000.00	1022.00	1022.00	22.00
* 7041.000	552.06	1000.00	1000.00	1022.00	1022.00	22.00
* 7436.000	555.72	1000.00	1000.00	1022.00	1022.00	22.00
* 7436.000	556.12	1000.00	1000.00	1022.00	1022.00	22.00
7450.000	557.27	969.56	1000.00	1020.00	1034.53	64.98
7450.000	557.42	979.00	1000.00	1020.00	1029.00	50.00
7500.000	557.58	969.20	1000.00	1020.00	1034.96	65.77
7500.000	557.81	968.62	1000.00	1020.00	1035.42	65.60
7700.000	558.63	947.27	1000.00	1020.00	1045.92	98.66
7700.000	558.76	960.49	1000.00	1020.00	1020.67	60.18

SECNO	CWSEL	SSTA	SICHL	STCHR	ENDST	TOPWID
7735.000	558.69	947.45	990.00	1030.00	1043.47	96.02
7735.000	558.83	978.08	990.00	1030.00	1030.00	51.92
7745.000	558.69	990.00	990.00	1030.00	1030.00	40.00
7745.000	559.69	990.00	990.00	1030.00	1030.00	40.00
7765.000	559.19	911.49	1000.00	1017.00	1129.39	217.90
7765.000	560.07	963.50	1000.00	1017.00	1100.70	137.21
7900.000	559.29	917.77	1000.00	1017.00	1124.27	206.50
7900.000	560.15	979.52	1000.00	1017.00	1093.08	113.55
8200.000	560.00	938.40	1000.00	1017.00	1119.99	181.59
8200.000	560.86	990.67	1000.00	1017.00	1089.37	98.70
8500.000	561.64	946.96	1000.00	1017.00	1118.21	171.24
8500.000	562.45	996.69	1000.00	1017.00	1084.41	87.72
9000.000	565.86	930.34	1000.00	1023.00	1034.47	104.15
9000.000	566.79	965.95	1000.00	1023.00	1023.00	57.05
9430.000	569.98	926.14	1000.00	1023.00	1036.46	110.32
9430.000	570.89	956.91	1000.00	1023.00	1023.00	60.09
10660.000	579.60	965.06	1000.00	1018.00	1136.58	171.52
10660.000	580.51	1000.00	1000.00	1018.00	1090.44	90.44
13000.000	590.11	835.85	1000.00	1017.00	1108.46	272.61
13000.000	591.08	906.69	1000.00	1017.00	1046.24	139.55
13500.000	591.44	934.24	1000.00	1017.00	1108.57	174.13
13500.000	592.39	968.62	1000.00	1017.00	1066.06	97.24
13575.000	591.88	932.48	1000.00	1005.40	1111.55	179.65
13575.000	592.89	963.25	1000.00	1005.40	1071.97	100.72
* 13579.000	594.57	919.39	1000.00	1005.40	1131.22	211.63
* 13579.000	595.24	969.59	1000.00	1005.40	1063.78	114.19
13620.000	595.63	917.03	1000.00	1005.40	1135.94	216.90
13620.000	596.64	956.95	1000.00	1005.40	1092.31	135.55
13625.000	595.90	916.07	1000.00	1005.40	1137.85	221.78
13625.000	596.94	948.10	1000.00	1005.40	1095.73	147.65
13650.000	595.91	937.63	1000.00	1017.00	1164.63	327.36
13650.000	596.95	970.91	1000.00	1017.00	1155.92	165.01
14270.000	596.35	910.17	1000.00	1016.00	1164.23	254.06
14270.000	597.30	967.21	1000.00	1016.00	1075.26	108.07
14680.000	598.68	957.69	1000.00	1014.00	1072.31	154.62
14680.000	598.87	987.36	1000.00	1014.00	1052.33	74.95
15200.000	600.66	851.08	1000.00	1013.00	1046.87	195.79
15200.000	601.67	943.08	1000.00	1013.00	1013.00	69.91



SECNO	WSEL	SSTA	STCHL	STCHR	ENDST	TOPWD
15400.000	602.42	866.45	1000.00	1013.00	1043.73	177.27
15400.000	603.47	951.44	1000.00	1013.00	1013.00	61.56
16080.000	610.29	917.96	1000.00	1012.00	1097.00	179.04
16080.000	611.23	966.13	1000.00	1012.00	1040.42	74.29

SUMMARY OF ERRORS

CAUTION	SECNO= 2054.000	PROFILE= 1	CRITICAL DEPTH ASSUMED			
CAUTION	SECNO= 2054.000	PROFILE= 1	PROBABLE MINIMUM SPECIFIC ENERGY			
CAUTION	SECNO= 2054.000	PROFILE= 1	20 TRIALS ATTEMPTED TO BALANCE WSEL			
CAUTION	SECNO= 2054.000	PROFILE= 2	CRITICAL DEPTH ASSUMED			
CAUTION	SECNO= 2054.000	PROFILE= 2	PROBABLE MINIMUM SPECIFIC ENERGY			
CAUTION	SECNO= 2054.000	PROFILE= 2	20 TRIALS ATTEMPTED TO BALANCE WSEL			
CAUTION	SECNO= 3604.000	PROFILE= 1	WSEL ASSUMED BASED ON MIN DIFF			
CAUTION	SECNO= 3604.000	PROFILE= 1	20 TRIALS ATTEMPTED TO BALANCE WSEL			
CAUTION	SECNO= 3604.000	PROFILE= 1	HYDRAULIC JUMP D.S.			
CAUTION	SECNO= 5887.000	PROFILE= 1	CRITICAL DEPTH ASSUMED			
CAUTION	SECNO= 5887.000	PROFILE= 1	PROBABLE MINIMUM SPECIFIC ENERGY			
CAUTION	SECNO= 5887.000	PROFILE= 1	20 TRIALS ATTEMPTED TO BALANCE WSEL			
CAUTION	SECNO= 5887.000	PROFILE= 2	CRITICAL DEPTH ASSUMED			
CAUTION	SECNO= 5887.000	PROFILE= 2	PROBABLE MINIMUM SPECIFIC ENERGY			
CAUTION	SECNO= 5887.000	PROFILE= 2	20 TRIALS ATTEMPTED TO BALANCE WSEL			
CAUTION	SECNO= 7041.000	PROFILE= 1	CRITICAL DEPTH ASSUMED			
CAUTION	SECNO= 7041.000	PROFILE= 1	PROBABLE MINIMUM SPECIFIC ENERGY			
CAUTION	SECNO= 7041.000	PROFILE= 1	20 TRIALS ATTEMPTED TO BALANCE WSEL			
CAUTION	SECNO= 7041.000	PROFILE= 2	CRITICAL DEPTH ASSUMED			
CAUTION	SECNO= 7041.000	PROFILE= 2	PROBABLE MINIMUM SPECIFIC ENERGY			
CAUTION	SECNO= 7041.000	PROFILE= 2	20 TRIALS ATTEMPTED TO BALANCE WSEL			
CAUTION	SECNO= 7436.000	PROFILE= 1	HYDRAULIC JUMP D.S.			
CAUTION	SECNO= 7436.000	PROFILE= 2	HYDRAULIC JUMP D.S.			
CAUTION	SECNO= 13579.000	PROFILE= 1	CRITICAL DEPTH ASSUMED			
CAUTION	SECNO= 13579.000	PROFILE= 1	PROBABLE MINIMUM SPECIFIC ENERGY			
CAUTION	SECNO= 13579.000	PROFILE= 1	20 TRIALS ATTEMPTED TO BALANCE WSEL			
CAUTION	SECNO= 13579.000	PROFILE= 2	CRITICAL DEPTH ASSUMED			
CAUTION	SECNO= 13579.000	PROFILE= 2	PROBABLE MINIMUM SPECIFIC ENERGY			
CAUTION	SECNO= 13579.000	PROFILE= 2	20 TRIALS ATTEMPTED TO BALANCE WSEL			

FLOODWAY DATA, R NATURAL PROFILE JUN 1

PROFILE NO. 2

STATION	FLOODWAY		WATER SURFACE ELEVATION			
	WIDTH (FT)	SECTION AREA	MEAN VELOCITY	WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE
145650.000	102.	1250.	4.1	495.3	494.3	1.0
A 300.000	140.	1060.	2.3	496.2	495.2	1.0
1000.000	106.	785.	3.1	497.6	496.9	0.9
2000.000	108.	502.	4.5	502.4	501.5	0.9
2030.000	123.	581.	3.9	502.7	501.8	0.9
2050.000	164.	750.	3.0	503.2	502.2	1.0
2054.000	85.	283.	7.9	503.6	503.2	0.4
2106.000	135.	699.	3.2	505.8	504.9	0.9
2115.000	261.	1706.	1.5	506.0	505.1	0.9
B 2200.000	186.	1165.	1.9	506.1	505.2	0.9
2400.000	145.	632.	3.5	506.4	505.6	0.8
3000.000	63.	325.	6.9	512.2	511.2	1.0
3500.000	83.	490.	4.6	518.2	517.3	0.9
3556.000	80.	528.	4.2	518.8	518.0	0.8
3604.000	113.	961.	2.5	522.3	521.5	0.8
3625.000	114.	956.	2.5	522.3	521.5	0.8
3740.000	124.	1021.	2.2	522.5	521.7	0.8
3900.000	145.	1060.	2.1	522.7	521.9	0.8
4000.000	133.	882.	2.5	522.9	522.1	0.8
4100.000	112.	681.	3.3	523.1	522.3	0.8
4450.000	101.	583.	3.6	525.8	524.8	1.0
5850.000	64.	354.	6.5	538.0	537.0	1.0
5880.000	62.	327.	4.5	539.0	538.0	1.0
5887.000	101.	303.	7.4	545.6	545.5	0.1
5972.000	146.	684.	3.3	547.6	546.8	0.8
5990.000	173.	2252.	1.0	548.0	547.2	0.8
6010.000	159.	1994.	1.1	548.0	547.2	0.8
6200.000	141.	1516.	1.5	548.0	547.2	0.8
6250.000	151.	1316.	1.7	548.0	547.2	0.8
6400.000	156.	1160.	1.9	548.1	547.3	0.8
6780.000	103.	399.	5.4	548.8	548.0	0.8
7000.000	296.	930.	2.2	551.4	550.4	1.0
7041.000	22.	140.	14.4	552.1	552.1	0.0
7436.000	22.	107.	10.7	556.1	555.7	0.4
7450.000	50.	376.	3.9	557.5	557.3	0.2
7500.000	67.	431.	4.7	557.8	557.6	0.2
7700.000	60.	556.	3.7	558.7	558.6	0.1
7735.000	56.	420.	4.8	558.8	558.7	0.1
7745.000	40.	403.	5.0	559.7	558.7	1.0
7765.000	157.	1245.	1.9	560.4	559.2	1.2
7900.000	114.	852.	2.4	560.2	559.3	0.9
8200.000	99.	599.	3.4	560.9	560.0	0.9
8500.000	88.	480.	4.2	562.4	561.6	0.8
9000.000	57.	557.	6.0	566.8	565.9	0.9
9430.000	66.	425.	4.7	570.9	570.0	0.9
10660.000	90.	415.	4.1	580.5	579.6	0.9
13000.000	140.	824.	2.1	591.1	590.1	1.0
13500.000	97.	549.	3.1	592.4	591.4	1.0
13575.000	109.	638.	2.7	592.9	591.9	1.0
13579.000	114.	364.	4.7	595.3	594.6	0.7

