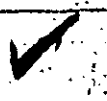


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XI	109.020	11.000	150.000	200.000	100.000	100.000	100.000	0.0	0.0	0.0
GR	472.000	0.0	467.000	40.000	462.000	70.000	457.000	90.000	452.000	150.000
GR	452.000	175.000	452.000	200.000	457.000	280.000	462.000	290.000	467.000	350.000
GR	472.000	400.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NH	4.000	0.070	190.000	0.070	220.000	0.070	270.000	10.000	410.000	0.0
ET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.110	140.000	260.000



XI	109.030	11.000	190.000	220.000	100.000	100.000	100.000	0.0	0.0	0.0
GR	472.000	0.0	467.000	35.000	462.000	60.000	457.000	80.000	452.000	190.000
GR	453.800	210.000	456.000	220.000	457.000	270.000	462.000	305.000	457.000	315.000
GR	472.000	410.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
QT	9.000	1234.000	1925.000	2218.000	3029.000	2218.000	2218.000	2218.000	2218.000	2218.000
NH	4.000	0.070	180.000	0.070	210.000	0.070	240.000	10.000	540.000	0.0
ET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.110	150.000	260.000

XI	109.040	13.000	180.000	210.000	100.000	100.000	100.000	0.0	1.000	0.0
GR	477.000	0.0	472.000	30.000	467.000	45.000	462.000	60.000	457.000	85.000
GR	457.000	180.000	454.300	200.000	457.000	210.000	457.000	240.000	462.000	400.000
GR	467.000	430.000	472.000	450.000	477.000	540.000	0.0	0.0	0.0	0.0
NH	4.000	0.070	110.000	0.070	140.000	0.070	180.000	10.000	660.000	0.0
ET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.110	70.000	170.000

XI	109.050	11.000	110.000	140.000	100.000	100.000	100.000	0.0	2.200	0.0
GR	472.000	0.0	467.000	10.000	462.000	30.000	458.000	60.000	458.000	110.000
GR	455.000	130.000	458.000	140.000	458.000	180.000	462.000	315.000	467.000	520.000
GR	472.000	660.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.050	0.065	0.070	0.010	0.010	0.0	0.0	0.0	0.0	0.0
QT	9.000	1230.000	1917.000	2209.000	3016.000	2209.000	2209.000	2209.000	2209.000	2209.000
ET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.110	263.000	433.000

XI	110.000	18.000	263.000	294.000	805.000	805.000	805.000	0.0	1.100	0.0
GR	501.500	0.0	501.800	100.000	500.000	168.000	488.500	200.000	479.000	234.000
GR	478.400	263.000	471.500	276.000	471.000	282.000	471.500	288.000	476.500	294.000
GR	477.000	300.000	476.700	400.000	477.300	500.000	479.800	526.000	480.400	600.000
GR	483.900	601.000	492.800	655.000	499.100	680.000	0.0	0.0	0.0	0.0
NC	0.0	0.075	0.060	0.300	0.500	0.0	0.0	0.0	0.0	0.0
QT	9.000	1230.000	1917.000	2209.000	3016.000	2209.000	2209.000	2209.000	2209.000	2209.000
ET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.110	720.000	940.000

X1	111.200	20.000	720.000	765.000	128.000	70.000	103.000	0.0	170.0	0.0
X3	10.000	0.0	0.0	0.0	0.0	0.0	0.0	480.000	475.000	0.0
GR	502.100	0.0	499.300	100.000	497.000	200.000	494.300	300.000	400.900	400.000
GR	486.200	500.000	482.600	600.000	477.500	720.000	470.800	725.000	470.800	760.000
GR	477.500	765.000	477.000	800.000	476.400	900.000	475.900	940.000	476.200	952.000
GR	478.200	1000.000	480.000	1040.000	485.700	1100.000	495.700	1200.000	500.600	1254.000
NC	0.050	0.075	0.021	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.110	720.000	940.000

X1	111.250	0.0	0.0	0.0	1.000	1.000	1.000	0.0	0.0	0.0
X3	10.000	0.0	0.0	0.0	0.0	0.0	0.0	480.000	474.700	0.0
SB	1.250	1.560	3.000	0.0	19.400	0.100	126.000	0.0	471.000	470.800
ET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.110	665.000	940.000

X1	111.350	20.000	665.000	710.000	83.000	83.000	83.000	0.0	0.200	0.0
X2	0.0	0.0	1.000	478.600	474.700	0.0	0.0	0.0	0.0	0.0
X3	0.000	0.0	0.0	0.0	0.0	0.0	0.0	481.000	474.700	0.0
BT	13.000	500.000	486.400	0.0	600.000	482.900	0.0	665.000	481.500	0.0
BT	670.000	480.300	0.0	705.000	480.500	0.0	710.000	480.400	0.0	800.000
BT	478.500	0.0	900.000	476.400	0.0	940.000	475.900	0.0	952.000	476.200
BT	0.0	970.000	474.700	0.0	1000.000	475.900	0.0	1100.000	485.700	0.0

BT	870.000	480.500	0.0	705.000	480.500	0.0	710.000	480.500	0.0	880.000
BT	478.500	0.0	900.000	476.400	0.0	940.000	475.900	0.0	952.000	476.200
BT	0.0	970.000	474.700	0.0	1,000.000	475.900	0.0	1,100.000	485.700	0.0
GR	502.100	0.0	493.300	100.000	497.000	200.000	494.300	300.000	490.900	400.000
GR	436.200	500.000	480.800	600.000	477.500	665.000	470.800	670.000	470.800	705.000
GR	477.500	710.000	477.000	800.000	476.400	900.000	475.900	940.000	476.200	952.000
GR	478.200	1,000.000	480.000	1,040.000	485.700	1,100.000	495.700	1,200.000	500.600	1,254.000
NC	0.050	0.075	0.065	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.110	665.000	940.000



X1	111.300	0.0	0.0	0.0	1.000	1.000	1.000	0.0	0.0	0.0
X3	10.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.060	0.070	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

X1	111.400	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.200	0.0
NC	0.060	0.080	0.070	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.110	303.000	433.000

X1	111.010	13.000	236.000	285.000	50.000	50.000	50.000	0.0	0.0	0.0
GR	502.000	0.0	497.000	123.000	492.000	181.000	487.000	239.000	482.000	265.000
GR	477.000	336.000	474.100	349.000	477.000	368.000	482.000	543.000	487.000	633.000
GR	492.000	685.000	497.000	724.000	502.000	762.000	0.0	0.0	0.0	0.0
NC	0.115	0.115	0.060	0.010	0.010	0.010	0.010	0.010	0.010	0.010
QT	9.000	1,222.000	1,906.000	2,198.000	2,975.000	2,198.000	2,198.000	2,198.000	2,198.000	2,198.000
ET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.110	269.000	384.000

X1	111.020	13.000	298.000	327.000	50.000	50.000	50.000	0.0	-0.950	0.0
GR	502.000	0.0	497.000	109.000	492.000	160.000	487.000	212.000	482.000	235.000
GR	476.000	298.000	474.100	309.000	476.000	327.000	482.000	481.000	487.000	562.000
GR	492.000	607.000	497.000	642.000	502.000	762.000	0.0	0.0	0.0	0.0
ET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.110	235.000	335.000

X1	111.030	13.000	260.000	285.000	50.000	50.000	50.000	0.0	0.0	0.0
GR	502.000	0.0	497.000	95.000	492.000	140.000	487.000	185.000	482.000	205.000
GR	477.000	260.000	474.100	270.000	477.000	285.000	482.000	420.000	487.000	490.000
GR	492.000	530.000	497.000	560.000	502.000	590.000	0.0	0.0	0.0	0.0
QT	9.000	1,205.000	1,882.000	2,171.000	2,967.000	2,171.000	2,171.000	2,171.000	2,171.000	2,171.000
ET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.110	135.000	235.000

X1	112.000	16.000	151.000	173.000	237.000	407.000	347.000	0.0	0.0	0.0
GR	502.300	0.0	495.300	54.000	484.200	100.000	482.900	106.000	482.400	151.000
GR	481.400	157.000	480.800	162.000	481.400	167.000	482.800	173.000	482.700	200.000
GR	484.900	274.000	489.100	281.000	491.000	300.000	496.400	361.000	502.500	386.000
NC	0.040	0.080	0.035	0.0	0.0	0.0	0.0	0.0	0.0	0.0
QT	9.000	1,159.000	1,818.000	2,101.000	2,879.000	2,101.000	2,101.000	2,101.000	2,101.000	2,101.000
ET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.110	707.100	767.100

X1	113.000	26.000	727.000	767.100	670.000	570.000	690.000	0.0	-0.400	0.0
GR	509.700	0.0	506.900	100.000	504.700	174.000	504.000	200.000	503.600	205.000
GR	504.400	213.000	502.500	220.000	501.400	300.000	504.900	400.000	506.100	464.000
GR	505.200	500.000	496.100	600.000	495.300	604.000	495.100	635.000	495.500	638.000
GR	492.400	656.000	490.700	700.000	489.000	727.000	487.200	742.000	487.000	753.000
GR	487.200	764.000	487.900	767.000	491.600	767.100	492.800	800.000	493.200	828.000
NC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
QT	9.000	1,159.000	1,818.000	2,101.000	2,879.000	2,101.000	2,101.000	2,101.000	2,101.000	2,101.000
ET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.110	740.000	800.000

X1	114.200	19.000	758.000	785.000	105.000	105.000	105.000	0.0	0.0	0.0
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GR	488.000	758.100	487.700	762.000	487.400	774.000	487.700	784.900	490.500	785.000
SR	492.000	800.000	498.500	874.000	503.500	900.000	509.900	925.000	0.0	0.0
SB	1.250	1.560	2.600	0.0	26.400	0.0	132.000	0.0	487.400	487.400
ET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.110	740.000	800.000



X1	114.300	0.0	0.0	0.0	30.000	30.000	30.000	0.0	0.0	0.0
X3	10.000	0.0	0.0	0.0	0.0	0.0	0.0	494.000	494.000	0.0
BT	700.000	494.600	492.500	758.000	494.000	490.500	758.100	494.000	492.400	784.900
ET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.110	720.000	800.000

X1	114.400	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.500	0.0
NC	0.0	0.0	0.0	0.010	0.010	0.0	0.0	0.0	0.0	0.0
NH	6.000	0.200	140.000	0.100	200.000	0.050	276.000	0.035	323.000	0.050
QT	9.000	1147.000	1801.000	2082.000	2857.000	2082.000	2082.000	2082.000	2082.000	2082.000
ET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.110	250.000	350.000

X1	115.000	17.000	288.000	323.000	165.000	165.000	165.000	0.0	-0.700	0.0
GR	512.800	0.0	511.100	42.000	504.100	56.000	502.800	80.000	502.000	924.000
GR	499.600	100.000	494.200	140.000	494.300	200.000	494.800	276.000	492.300	288.000
GR	490.500	200.000	490.400	300.000	490.400	310.000	492.000	310.000	492.000	310.000
GR	500.700	400.000	512.800	440.000	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.0	0.0	0.0	0.300	0.500	0.0	0.0	0.0	0.0	0.0
ET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.110	240.000	340.100

X1	116.200	18.000	312.000	340.100	102.000	102.000	102.000	0.0	0.0	0.0
X3	10.000	0.0	0.0	0.0	0.0	0.0	0.0	496.500	499.500	0.0
GR	514.500	0.0	504.000	100.000	499.000	162.000	498.500	200.000	498.700	600.000
GR	496.500	312.000	491.700	313.000	490.900	321.000	490.700	325.000	490.900	330.000
GR	491.800	340.000	495.500	340.100	497.200	400.000	500.100	500.000	503.100	600.000
GR	506.000	700.000	511.500	800.000	514.500	845.000	0.0	0.0	0.0	0.0
SB	1.250	1.560	2.900	0.0	25.100	0.0	196.000	0.0	490.100	490.100
ET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.110	230.000	340.100

X1	116.300	0.0	0.0	0.0	36.000	36.000	36.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	498.500	498.500	0.0	0.0	0.0	0.0	0.0
X3	10.000	0.0	0.0	0.0	0.0	0.0	0.0	498.500	500.500	0.0
BT	11.000	100.000	504.000	504.000	162.000	499.000	499.000	200.000	498.500	498.500
BT	300.000	499.700	496.700	312.000	499.700	496.500	499.700	499.700	498.000	140.000
BT	500.300	498.500	340.100	500.300	495.500	400.000	501.000	497.200	500.000	502.000
BT	500.100	600.000	503.100	503.100	0.0	0.0	0.0	0.0	0.0	0.0
ET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.110	150.000	280.000

X1	116.400	9.000	220.000	250.000	50.000	50.000	50.000	0.0	0.0	0.0
GR	507.000	0.0	502.000	55.000	497.000	165.000	496.000	220.000	491.000	230.000
GR	493.000	250.000	497.000	310.000	502.000	420.000	507.000	500.000	0.0	0.0
NC	0.0	0.0	0.0	0.010	0.010	0.0	0.0	0.0	0.0	0.0
ET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.110	130.000	250.000

X1	116.010	9.000	185.000	215.000	100.000	100.000	100.000	0.0	0.0	0.0
GR	507.000	0.0	502.000	55.000	497.000	135.000	496.000	185.000	491.600	195.000
GR	493.000	215.000	497.000	260.000	502.000	380.000	507.000	440.000	0.0	0.0
BT	9.000	1075.000	1703.000	1976.000	2730.000	1976.000	1976.000	1976.000	1976.000	1976.000
ET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.110	110.000	210.000

X1	116.020	9.000	150.000	180.000	100.000	100.000	100.000	0.0	0.0	0.0
GR	507.000	0.0	502.000	55.000	497.000	95.000	496.000	150.000	492.200	150.000

X1	116.020	9.000	150.000	180.000	100.000	100.000	100.000	0.0	0.0	0.0
GR	507.000	0.0	502.000	45.000	497.000	85.000	496.000	150.000	492.200	160.000
GR	493.000	180.000	497.000	200.000	502.000	345.000	507.000	420.000	0.0	0.0
QT	9.000	887.000	1446.000	1698.000	2395.000	1698.000	1698.000	1698.000	1698.000	1698.000
ET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.110	130.000	220.000

X1	116.030	9.000	161.500	190.000	525.000	525.000	525.000	0.0	0.0	0.0
GR	497.000	190.000	502.000	285.000	507.000	318.250	512.000	351.500	0.0	0.0
ET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.110	60.000	160.000

X1	116.040	12.000	105.000	135.000	128.600	133.000	148.000	0.0	0.0	0.0
GR	517.000	0.0	512.000	15.000	507.000	30.000	502.000	50.000	497.800	105.000
GR	496.100	120.000	497.800	135.000	498.500	150.000	502.000	240.000	507.000	290.000
ET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.110	105.000	185.000

X1	117.000	14.000	157.000	179.000	129.000	134.000	149.000	0.0	0.0	0.0
GR	522.000	0.0	514.300	43.000	512.700	73.000	504.200	100.000	501.200	127.000
GR	497.700	131.000	497.400	137.000	497.600	141.000	501.100	149.000	503.600	200.000
GR	518.000	267.000	519.200	300.000	521.000	400.000	522.000	440.000	0.0	0.0
ET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.110	150.000	230.000

X1	118.200	14.000	166.500	178.500	104.000	104.000	109.000	0.0	0.0	0.0
X3	10.000	0.0	0.0	0.0	0.0	0.0	0.0	506.400	506.500	0.0
GR	522.000	0.0	513.900	100.000	505.000	135.000	503.500	160.000	503.100	166.500
GR	500.900	167.100	498.600	171.000	500.900	174.900	503.100	175.500	503.800	200.000
GR	504.500	235.000	516.300	300.000	520.000	400.000	522.000	469.000	0.0	0.0
SB	1.250	1.560	3.000	0.0	8.000	0.0	63.600	0.0	498.600	497.500
ET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.110	140.000	230.000

X1	118.300	0.0	0.0	0.0	72.000	72.000	72.000	0.0	1.100	0.0
X2	0.0	0.0	1.000	507.600	512.600	0.0	0.0	0.0	0.0	0.0
X3	10.000	0.0	0.0	0.0	0.0	0.0	0.0	512.600	512.800	0.0
BT	113.000	170.000	522.000	522.000	100.000	513.900	513.900	135.000	513.200	405.000
BT	160.000	512.600	503.500	166.500	512.800	503.100	167.100	512.900	505.400	171.000
BT	512.900	507.600	174.900	513.000	505.400	175.900	513.000	503.100	200.000	513.300
BT	503.800	235.000	514.400	504.500	300.000	516.300	516.300	400.000	520.000	520.000
ET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.110	130.000	230.000

X1	118.400	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.300	0.0
NC	0.070	0.070	0.048	0.010	0.010	0.010	0.010	0.0	0.0	0.0
NH	5.000	0.150	125.000	0.070	166.000	0.048	180.000	0.070	300.000	0.150
NH	593.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
QT	9.000	854.000	1396.000	1642.000	2320.000	1642.000	1642.000	1642.000	1642.000	1642.000
ET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.110	135.000	255.000

X1	119.000	16.000	166.000	180.000	624.000	654.000	674.000	0.0	-0.300	0.0
GR	527.100	0.0	526.400	42.000	519.000	88.000	518.100	100.000	514.900	126.000
GR	506.700	159.000	506.000	166.000	503.700	170.000	503.000	176.000	503.700	179.000
GR	504.300	180.000	505.400	200.000	508.200	300.000	514.500	400.000	520.400	500.000
GR	517.100	593.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.0	0.0	0.0	0.300	0.500	0.0	0.0	0.0	0.0	0.0
NH	5.000	0.150	450.000	0.070	560.000	0.048	580.000	0.070	700.000	0.150
NH	1100.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
QT	9.000	854.000	1396.000	1642.000	2320.000	1642.000	1642.000	1642.000	1642.000	1642.000
ET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.110	150.000	250.000

GR	520.300	100.000	516.200	209.000	513.100	300.000	511.100	400.000	509.600	450.000
GR	506.600	560.000	504.100	561.000	504.100	579.000	506.600	580.000	510.800	700.000
GR	513.100	800.000	517.500	900.000	522.200	1000.000	525.800	1100.000	0.0	0.0
SB	1.250	1.560	3.000	0.0	6.000	0.100	30.000	0.0	504.100	503.800
ET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.110	500.000	650.000

X1	120.300	0.0	0.0	0.0	72.000	172.000	2.000	2.000	2.000	0.0
X2	0.0	0.0	1.000	508.800	510.100	0.0	0.0	0.0	0.0	0.0
X3	10.000	0.0	0.0	0.0	0.0	0.0	0.0	510.100	510.100	0.0
BT	9.000	100.000	520.300	0.0	200.000	516.200	0.0	300.000	513.100	0.0
BT	460.000	511.100	0.0	500.000	510.100	0.0	502.100	510.100	0.0	0.0
BT	510.800	0.0	800.000	513.100	0.0	1000.000	522.200	0.0	0.0	0.0
NH	5.000	0.200	450.000	0.080	560.000	0.050	580.000	0.080	700.000	0.200
NH	1100.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.110	500.000	650.000

X1	120.400	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.200	0.0
NC	0.0	0.0	0.0	0.010	0.010	0.010	0.010	0.010	0.010	0.010
NH	5.000	0.150	400.000	0.080	478.000	0.070	490.000	0.100	520.000	0.200
NH	660.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
QT	9.000	692.000	1163.000	1385.000	2000.000	1385.000	1385.000	1385.000	1385.000	1385.000
ET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.110	500.000	650.000

X1	121.010	13.000	478.000	490.000	497.000	527.000	657.000	0.0	-3.000	0.0
GR	540.000	0.0	522.500	200.000	513.600	325.000	513.200	400.000	513.600	478.000
GR	510.800	483.000	509.700	486.000	510.800	489.000	512.800	490.000	513.100	500.000
GR	513.200	528.000	521.800	600.000	534.000	660.000	0.0	0.0	0.0	0.0
NH	5.000	0.150	400.000	0.080	478.000	0.080	490.000	0.110	528.000	0.200
NH	660.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
QT	9.000	530.000	930.000	1127.000	1679.000	1127.000	1127.000	1127.000	1127.000	1127.000
ET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.110	400.000	550.000

X1	121.000	14.000	478.000	490.000	497.000	527.000	657.000	0.0	0.0	0.0
GR	536.700	0.0	523.000	100.000	516.200	200.000	513.800	300.000	513.200	400.000
GR	513.600	470.000	510.800	483.000	509.700	486.000	510.800	489.000	512.800	490.000
GR	513.100	500.000	513.200	528.000	521.800	600.000	534.000	660.000	0.0	0.0
EJ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TOP OF FORM

\*PROF. 1

CHV=10.400 CERV=10.600

\*SECNO 109.200

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	OLOSS	BANK	ELEV
Q	GLOB	OCH	OROB	ALOB	ACH	AROB	VL	TWA	LEFT/RIGHT	
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTNO	TECHN	STAY	
SLOPE	XLOBL	XLCH	XLQBR	ITRIAL	IDC	ICONT	CRAR	TOPWID	ENST	

109.20	10.75	456.65	0.0	456.65	456.95	0.30	0.00	0.00	453.00	
2242.	273.	1820.	150.	141.	382.	98.	0.	0.	455.00	
0.0	1.93	4.76	1.53	0.096	0.078	0.096	0.0	445.90	307.10	
0.005665	0.	0.	0.	0.	0.	0.	0.0	211.23	518.33	

FLOW DISTRIBUTION FOR SECNO= 109.20 CWSEL= 456.65

PER 0= 307. 350. 390. 450. 500. 518.

PER 0=	1.6	10.5	81.2	6.0	0.7
AREA=	35.4	106.0	382.0	82.5	15.1
VEL=	1.0	2.2	4.8	1.6	1.0

AREA= 32.1 241.1 208.1 705.2 205.7 697.3 256.1 22.6  
 VEL= 0.1 0.2 0.3 0.8 1.7 0.8 0.2 0.1  
 CCHV= 0.010 CENV= 0.010  
 1490 NH CARD USED

\*SECNO 121.010  
 121.01 8.25 514.95 0.0 0.0 514.98 0.03 0.26 0.00 510.60  
 1385. 992. 183. 210. 230. 81. 279. 128. 71. 299.  
 0.71 1.20 2.26 0.75 0.129 0.084 0.198 0.060 506.70 263.85  
 0.001614 497. 657. 527. 2 0 0 0.0 303.95 587.80

FLOW DISTRIBUTION FOR SECNO= 121.01 CWSL= 514.95  
 STA= 204. 25. 400. 478. 490. 500. 528. 568.  
 PER Q= 3.3 22.4 13.0 13.2 5.3 6.9 3.0 3.0  
 AREA= 133.1 741.6 355.2 81.1 50.0 134.5 94.6  
 VEL= 0.6 0.9 1.7 2.3 1.5 0.7 0.4

1490 NH CARD USED  
 \*SECNO 121.000  
 SECNO DEPTH CWSL CRWS WSEL EG HV HL LOSS BANK ELEV  
 Q CLOB QCH QROB ALOB ACH AROB VOL TWA LEFT/RIGHT  
 SLOPE XLOBL XLCH XLOBR ITRIAL IDC ICONT CORAR TOPWID ENDST  
 121.00 16.47 516.17 0.0 0.0 516.21 0.04 1.23 0.00 513.60  
 1127. 773. 155. 199. 600. 60. 154. 136. 37. 512.80  
 0.81 1.29 2.60 1.30 0.134 0.096 0.142 0.061 509.70 201.31  
 0.004208 497. 657. 527. 2 0 0 0.0 351.54 552.85

FLOW DISTRIBUTION FOR SECNO= 121.00 CWSL= 516.17  
 STA= 201. 300. 400. 478. 490. 500. 528. 568.  
 PER Q= 6.2 24.4 37.9 13.8 4.5 11.4 1.7  
 AREA= 116.9 266.9 216.0 59.7 32.2 84.5 36.9  
 VEL= 0.6 1.0 2.0 2.6 1.6 1.5 0.8

-----TOP OF FORM-----

THIS RUN EXECUTED

HEC2 RELEASE DATED NOV 76 UPDATED AUG 1977  
 ERROR CORR - 01.02  
 MODIFICATION - 50,51,52,53

T1 STANLY CC. - ALBEMARLE  
 T2 ENCROACHED PROFILE M#1  
 T3 MELCHOR BRANCH FLOODWAY

J1 ICHECK INQ NINV IOIR STRT METRIC HVINS Q WSEL FQ  
 0. 8. 0. 0. 0.0 0.0 -1.0 0. 457.150 0.0  
 J2 NPROF IPLOT PRFVS XSECV XSECH FN ALLDC IBW CHNIM ITRACE  
 15.000 0.0 -1.000 0.0 0.0 1.200 0.0 0.0 0.0 0.0

-----TOP OF FORM-----



1127. 628. 198. 301. 276. 69. 200. 96. 18. 512.80  
 0.60 2.27 2.87 1.51 0.096 0.096 0.145 0.061 509.70 400.00  
 0.004251 497. 657. 527. 2 0 0 0.0 150.00 550.00

TOP OF FORM

\*\*\*\*\*  
 HEC2 RELEASE DATED NOV 76 UPDATED AUG1977  
 ERROR CORR - 01.02  
 MODIFICATION: 250.51, 621.53  
 \*\*\*\*\*

NOTE: PASTENT SKR (\*) AT LEFT OF CROSS SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF RECORDS LISTED

MELCHOR BRANCH FLOODWAY

SUMMARY PRINTOUT

SECNO	CWSEL	WSEL	WSELK	TOPWID	STA	END	STN	STN	STN	STN	STN	STN	STN	STN
109.200	456.65	456.65	297.89	456.95	211.23	307.10	518.33	0.0	0.0	0.0	1.93	1.53	4.76	
109.200	457.15	456.65	324.79	457.44	140.00	375.00	515.00	375.00	515.00	2.26	1.70	4.60		
* 109.300	461.43	0.0	611.78	461.53	290.13	242.53	532.67	0.0	0.0	1.29	0.92	2.69		
* 109.300	461.69	461.43	515.64	461.84	100.00	350.00	450.00	350.00	450.00	1.93	0.0	3.33		
109.400	461.51	0.0	495.19	461.64	258.73	281.41	518.14	0.0	0.0	0.0	0.0	0.0		
109.400	461.79	461.51	446.91	461.98	100.00	350.00	450.00	350.00	450.00	2.05	0.0	3.66		
109.010	461.70	0.0	949.97	461.74	249.32	117.69	367.01	0.0	0.0	1.43	1.12	1.99		
109.010	462.04	461.70	696.35	462.13	110.00	220.00	330.00	220.00	380.00	1.12	1.00	1.33		
109.020	461.76	0.0	1080.71	461.79	218.54	70.97	289.51	0.0	0.0	1.29	1.31	1.66		
109.020	462.16	461.76	806.01	462.22	120.00	100.00	220.00	100.00	220.00	1.82	1.72	2.29		
109.030	461.80	0.0	603.33	461.86	242.87	60.78	303.64	0.0	0.0	1.92	1.52	2.36		
109.030	462.21	461.80	429.71	462.35	120.00	140.00	260.00	140.00	260.00	2.81	2.72	3.43		
109.040	461.95	0.0	314.57	462.09	301.32	65.23	438.25	0.0	0.0	0.0	0.0	0.0		
109.040	462.48	461.95	223.01	462.82	110.00	150.00	260.00	150.00	260.00	4.36	2.96	5.63		
109.050	462.58	0.0	127.64	463.10	222.01	38.13	260.13	0.0	0.0	5.29	2.75	7.47		
109.050	463.59	462.58	163.30	464.14	100.00	70.00	170.00	70.00	170.00	3.00	2.75	3.00		
110.000	477.67	0.0	198.08	477.98	270.54	244.81	515.36	0.0	0.0	0.91	3.17	5.68		
110.000	477.75	477.67	171.63	478.21	170.00	263.00	433.00	263.00	433.00	0.0	3.88	6.54		
111.200	478.40	0.0	300.07	478.68	284.58	720.00	1004.58	0.0	0.0	0.0	1.75	4.95		
111.200	478.73	478.40	317.89	478.99	220.00	720.00	940.00	720.00	940.00	0.0	1.85	4.79		
111.250	478.27	0.0	654.52	478.83	281.47	720.00	1001.47	0.0	0.0	0.0	0.0	0.0		
111.250	478.61	478.27	706.84	479.12	220.00	720.00	940.00	720.00	940.00	0.0	0.80	6.10		
* 111.350	478.18	0.0	599.86	478.83	329.78	665.00	994.78	0.0	0.0	0.0	0.71	6.82		
* 111.350	479.01	478.18	769.58	479.43	275.00	665.00	940.00	665.00	940.00	0.0	0.0	0.0		
111.300	478.76	0.0	318.42	478.96	342.85	665.00	1007.85	0.0	0.0	0.0	1.68	4.36		
111.300	479.37	478.76	384.92	479.52	275.00	665.00	940.00	665.00	940.00	0.0	1.68	3.78		

111.300 478.76 0.0 318.42 478.96 342.25 665.00 1007.55 0.0 0.0 0.0 1.68 4.36  
 111.300 479.77 478.76 384.92 479.52 275.00 665.00 940.00 665.00 940.00 0.0 1.68 3.78

TOP OF FORM

SECNO	CWSEL	WSELK	QJK	EG	TOPWID	SSTA	ENDST	STENCL	STENCR	VLOR	VROR	VCH
111.400	479.02	0.0	341.94	479.19	366.29	642.99	1009.28	0.0	0.0	0.90	1.72	4.13
111.010	479.19	0.0	199.61	479.53	233.19	277.93	511.12	0.0	0.0	2.76	2.76	5.98
111.010	479.71	479.19	237.06	480.01	130.00	303.00	433.00	303.00	433.00	3.14	3.34	6.42
111.020	479.66	0.0	169.22	480.24	195.60	249.63	445.23	0.0	0.0	2.43	2.44	7.64
111.020	480.02	479.66	189.84	480.55	119.00	269.00	384.00	269.00	384.00	2.78	2.97	7.29
111.030	480.65	0.0	112.22	481.91	153.85	193.95	303.00	0.0	0.0	3.90	4.19	11.73
* 111.030	480.46	480.65	102.88	481.95	100.00	235.00	335.00	235.00	335.00	3.90	4.19	11.73
112.000	487.15	0.0	235.55	487.37	189.99	87.77	277.75	0.0	0.0	2.56	2.36	6.54
112.000	488.13	487.15	210.00	488.51	100.00	115.00	150.00	0.0	0.0	0.0	0.0	0.0
113.000	491.93	0.0	231.41	492.90	129.23	657.85	787.08	0.0	0.0	4.23	1.15	6.82
113.000	492.66	491.93	270.88	493.54	60.00	707.10	767.10	707.10	767.10	5.00	0.0	7.92
* 114.200	493.40	0.0	229.17	494.42	138.97	677.01	815.99	0.0	0.0	4.13	3.26	9.33
* 114.200	493.23	493.40	184.59	494.94	60.00	740.00	800.00	740.00	800.00	5.69	4.20	11.34
114.300	495.64	0.0	596.67	496.83	224.87	616.63	841.50	0.0	0.0	4.09	3.08	6.74
114.300	495.90	495.64	402.94	496.47	60.00	740.00	800.00	740.00	800.00	4.09	3.08	6.74
114.400	495.68	0.0	498.88	495.94	205.79	630.46	836.25	0.0	0.0	2.68	2.01	5.12
114.400	495.25	495.68	459.08	496.64	60.00	780.00	800.00	780.00	800.00	2.75	2.01	5.00
115.000	496.02	0.0	445.64	496.26	258.46	121.36	379.82	0.0	0.0	1.65	2.33	6.23
115.000	496.59	496.02	400.74	497.03	100.00	250.00	350.00	250.00	350.00	3.11	3.08	6.20
* 116.200	497.83	0.0	208.13	499.47	103.09	237.01	340.10	0.0	0.0	2.54	0.0	10.58
* 116.200	497.98	497.83	211.51	499.45	100.10	240.00	340.10	240.00	340.10	2.64	0.0	10.11
116.300	499.24	0.0	362.97	499.81	181.09	159.01	340.10	0.0	0.0	2.99	0.0	6.09
116.300	499.76	499.24	398.68	500.21	110.10	230.00	340.10	230.00	340.10	2.99	0.0	6.09
116.400	499.90	0.0	696.14	500.02	272.50	101.25	373.75	0.0	0.0	1.79	1.85	3.91
116.400	500.18	499.90	617.29	500.36	130.00	180.00	280.00	150.00	280.00	2.55	2.55	2.55
116.010	499.96	0.0	621.55	500.12	243.46	87.62	331.07	0.0	0.0	2.08	1.98	4.31
116.010	500.26	499.96	590.99	500.48	120.00	130.00	250.00	130.00	250.00	2.57	2.58	4.66
116.020	500.06	0.0	565.30	500.24	228.27	60.51	288.78	0.0	0.0	2.37	1.73	4.44
116.020	500.33	500.06	494.96	500.62	100.00	110.00	210.00	110.00	210.00	2.95	2.71	5.20
116.030	500.90	0.0	274.53	501.25	191.60	72.54	264.14	0.0	0.0	2.99	3.13	6.08
116.030	501.36	500.90	295.50	501.76	90.00	130.00	220.00	130.00	220.00	3.98	3.13	6.08
116.040	501.38	0.0	224.40	501.90	165.93	58.12	224.05	0.0	0.0	3.45	2.92	7.19
116.040	501.73	501.38	233.07	502.34	80.00	180.00	160.00	80.00	160.00	3.78	3.18	7.28
* 117.000	503.62	0.0	176.96	504.82	101.75	100.69	202.44	0.0	0.0	3.81	3.46	10.07
* 117.000	503.47	503.62	164.10	504.85	80.00	105.00	185.00	105.00	185.00	4.22	3.96	10.65
* 118.200	506.65	0.0	316.50	506.90	128.69	124.20	252.89	0.0	0.0	3.76	3.13	5.62
* 118.200	506.54	506.65	240.78	506.99	80.00	150.00	230.00	150.00	230.00	4.98	4.16	7.31

TOP OF FORM

118.300	514.52	0.0	1818.00	514.54	198.05	92.20	290.26	0.0	0.0	1.19	0.98	1.49
118.300	514.74	514.52	1230.82	514.78	90.00	140.00	230.00	140.00	230.00	1.73	1.52	2.22
118.400	514.52	0.0	1719.28	514.55	192.59	95.99	288.57	0.0	0.0	1.23	1.02	1.55
118.400	514.75	514.52	1350.99	514.79	100.00	130.00	230.00	130.00	230.00	1.74	1.37	2.00
119.000	514.89	514.62	1000.43	514.93	150.00	135.00	265.00	135.00	265.00	0.96	1.20	2.05
120.200	514.65	0.0	1328.55	514.66	601.21	240.02	841.83	0.0	0.0	0.55	0.57	1.40
120.300	514.70	0.0	1246.29	514.71	588.43	240.12	834.58	0.0	0.0	0.58	0.58	1.67
120.300	515.09	514.70	860.35	515.12	150.00	500.00	650.00	500.00	650.00	1.22	1.20	2.18
120.400	514.71	0.0	1035.10	514.72	577.59	254.48	832.07	0.0	0.0	0.59	0.62	1.67
120.400	515.10	514.71	746.36	515.14	150.00	500.00	650.00	500.00	650.00	1.21	1.19	2.16
121.010	515.53	514.95	309.93	515.59	150.00	375.00	525.00	375.00	525.00	1.79	1.04	2.65
121.000	516.17	0.0	173.74	516.21	351.54	201.31	552.85	0.0	0.0	1.29	1.30	2.60
121.000	516.95	516.17	122.85	517.02	150.00	500.00	650.00	500.00	650.00	1.21	1.19	2.16

TOP OF FORM

MELCHOR BRANCH FLOODWAY

SUMMARY PRINTOUT TABLE 110

SECNO	CMSL	DIFKWS	EG	TORNID	OLDB	OCH	OROB	PERENC	STENCL	STCHL	STCHR	STENCR
109.200	456.65	0.0	456.95	211.23	272.53	1819.82	149.65	0.0	0.0	350.00	450.00	0.0
109.200	457.15	0.50	457.44	140.00	127.93	1893.23	220.85	140.00	1375.00	390.00	450.00	515.00
109.300	461.43	0.0	461.53	290.13	550.87	1534.20	187.12	0.0	0.0	350.00	450.00	0.0
109.300	461.69	0.26	461.84	100.00	416.10	1825.90	0.0	100.00	350.00	390.00	450.00	450.00
109.400	461.51	0.0	461.64	256.73	482.65	1643.38	115.97	0.0	0.0	390.00	450.00	0.0
109.400	461.79	0.29	461.98	100.00	384.96	1857.04	1010.00	100.00	100.00	390.00	450.00	0.0
109.010	461.70	0.0	461.74	249.32	968.88	826.39	446.73	0.0	0.0	240.00	280.00	0.0
109.010	462.04	0.34	462.13	110.00	378.19	1200.13	663.68	110.00	220.00	240.00	280.00	330.00
109.020	461.76	0.0	461.79	218.54	622.18	811.75	792.07	0.0	0.0	150.00	200.00	0.0
109.020	462.16	0.40	462.22	120.00	734.74	1163.95	327.30	120.00	100.00	150.00	200.00	220.00
109.030	461.80	0.0	461.86	242.87	1212.00	465.58	527.14	0.0	0.0	100.00	120.00	0.0
109.030	462.21	0.41	462.35	120.00	841.10	751.76	633.15	120.00	140.00	190.00	220.00	260.00
109.040	461.95	0.0	462.09	301.32	1247.77	596.70	373.53	0.0	0.0	180.00	210.00	0.0
109.040	462.48	0.53	462.82	110.00	586.43	985.97	645.72	110.00	100.00	180.00	210.00	0.0
109.050	462.58	0.0	463.10	222.01	827.40	868.66	521.93	0.0	0.0	110.00	140.00	0.0
109.050	463.59	1.01	464.14	100.00	699.09	1003.54	515.37	100.00	70.00	110.00	140.00	170.00
110.000	477.67	0.0	477.98	270.54	3.11	957.73	1248.16	0.0	0.0	263.00	294.00	0.0
110.000	477.75	0.09	478.21	170.00	0.0	1119.45	1089.54	170.00	263.00	263.00	294.00	433.00
111.200	478.40	0.0	478.68	284.50	70.00	1829.44	679.88	0.0	0.0	720.00	765.00	0.0
111.200	478.73	0.32	478.99	220.00	0.0	1547.98	661.03	220.00	720.00	720.00	765.00	940.00
111.250	478.27	0.0	478.83	281.47	0.0	1938.62	270.38	0.0	0.0	720.00	765.00	0.0
111.250	478.61	0.34	479.12	220.00	0.0	1938.67	270.33	220.00	720.00	720.00	765.00	940.00

111.250	478.27	0.0	478.83	281.47	0.0	1938.62	270.38	0.0	0.0	720.00	765.00	0.0
111.250	478.61	0.34	479.12	220.00	0.0	1938.67	270.33	220.00	720.00	720.00	765.00	940.00
* 111.350	478.18	0.0	478.83	329.78	0.0	1974.40	234.60	0.0	0.0	665.00	710.00	0.0
111.350	479.01	0.82	479.43	275.00	0.0	1861.91	347.09	275.00	665.00	665.00	710.00	940.00
111.300	478.76	0.0	478.96	342.85	0.0	1376.13	832.87	0.0	0.0	665.00	710.00	0.0
111.300	479.37	0.61	479.52	275.00	0.0	1298.38	910.62	275.00	665.00	665.00	710.00	940.00

111.400	479.53	0.51	479.72	235.00	0.0	1431.21	777.79	235.00	665.00	665.00	710.00	900.00
111.010	479.19	0.0	479.53	233.19	327.10	1074.49	807.40	0.0	0.0	336.00	368.00	0.0

111.020	479.66	0.0	480.24	195.60	270.88	1263.03	664.01	0.0	0.0	298.00	327.00	384.00
111.020	480.02	0.36	480.55	115.00	289.59	1283.16	655.25	115.00	269.00	298.00	327.00	384.00
* 111.030	480.65	0.0	481.91	163.54	229.44	1404.08	564.47	0.0	0.0	260.00	285.00	0.0
* 111.030	480.46	0.18	481.95	100.00	226.94	1440.33	630.73	100.00	235.00	260.00	285.00	335.00

112.000	488.13	0.98	488.51	100.00	250.22	955.45	965.32	100.00	135.00	151.00	173.00	235.00
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SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
113.000	491.93	0.0	492.90	129.23	428.06	1664.60	8.34	0.0	0.0	727.00	767.10	0.0
113.000	492.66	0.73	493.54	60.00	341.12	1759.88	0.0	60.00	707.10	727.00	767.10	767.10

* 114.200	493.23	-0.18	494.94	60.00	256.05	1720.55	124.40	60.00	740.00	758.00	785.00	800.00
114.300	495.64	0.0	495.83	224.87	882.28	966.77	251.95	0.0	0.0	758.00	785.00	0.0
114.300	495.90	0.25	496.17	60.00	374.96	1510.85	215.19	60.00	740.00	758.00	785.00	800.00

114.400	495.68	0.0	495.94	205.79	818.32	1047.90	234.78	0.0	0.0	758.00	785.00	0.0
114.400	496.25	0.56	496.64	80.00	639.13	1282.89	178.99	80.00	720.00	758.00	785.00	800.00
115.000	496.02	0.0	496.26	258.46	616.82	1058.69	406.49	0.0	0.0	288.00	323.00	0.0
115.000	496.59	0.57	497.03	100.00	347.47	1377.77	356.76	100.00	250.00	288.00	323.00	350.00

* 116.200	497.83	0.0	499.47	103.09	128.51	1953.40	0.0	0.0	0.0	312.00	340.10	340.10
* 116.200	497.98	0.15	499.45	100.10	174.00	1908.00	0.0	100.10	240.00	312.00	340.10	340.10
116.300	499.24	0.0	499.81	181.09	533.87	1548.13	0.0	0.0	0.0	312.00	340.10	0.0
116.300	499.76	0.53	500.21	110.10	626.30	1495.70	0.0	110.10	230.00	312.00	340.10	340.10

116.400	499.90	0.0	500.02	272.50	500.44	867.16	714.40	0.0	0.0	220.00	250.00	0.0
116.400	500.16	0.27	500.36	130.00	579.06	1036.70	466.23	130.00	150.00	220.00	250.00	280.00
116.010	499.96	0.0	500.12	243.46	505.05	926.17	650.78	0.0	0.0	185.00	215.00	0.0
116.010	500.26	0.30	500.48	120.00	523.01	1043.53	515.45	120.00	130.00	185.00	215.00	250.00

116.020	500.06	0.0	500.24	228.27	637.75	927.08	411.17	0.0	0.0	150.00	180.00	210.00
116.020	500.33	0.27	500.62	100.00	474.11	1127.94	373.94	100.00	110.00	150.00	180.00	210.00
116.030	500.90	0.0	501.25	191.60	518.56	833.83	345.61	0.0	0.0	161.50	190.00	0.0
116.030	501.36	0.46	501.76	90.00	460.04	902.74	335.22	90.00	130.00	161.50	190.00	220.00

116.040	501.38	0.0	501.90	165.93	289.27	955.77	452.96	0.0	0.0	105.00	135.00	0.0
116.040	501.73	0.35	502.34	80.00	329.18	1044.92	323.90	80.00	80.00	105.00	135.00	160.00
* 117.000	503.62	0.0	504.82	101.75	146.54	1236.18	315.28	0.0	0.0	127.00	149.00	0.0
117.000	504.47	0.12	504.85	80.00	144.48	1271.44	284.17	80.00	105.00	127.00	149.00	185.00

CAUTION SECNO= 117.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL  
 CAUTION SECNO= 117.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL

118.200	506.54	-0.11	506.99	80.00	331.22	489.30	867.48	80.00	150.00	166.50	175.50	230.00
118.300	514.52	0.0	514.54	198.05	605.92	194.18	897.89	0.0	0.0	166.50	175.50	0.0
118.300	514.74	0.22	514.78	90.00	495.92	293.69	908.39	90.00	140.00	166.50	175.50	230.00
118.400	514.52	0.0	514.55	192.59	601.65	198.14	898.20	0.0	0.0	166.50	175.50	0.0
118.400	514.75	0.23	514.79	100.00	645.13	258.98	793.89	100.00	130.00	166.50	175.50	230.00
119.000	514.62	0.0	514.64	281.23	154.98	282.63	1204.39	0.0	0.0	166.00	180.00	0.0
119.000	514.89	0.28	514.93	150.00	186.79	326.98	1128.27	180.00	135.00	166.00	180.00	288.00
120.200	514.64	0.0	514.66	601.21	721.88	299.72	871.67	0.0	0.0	560.00	580.00	650.00
120.200	514.92	0.27	514.95	150.00	562.24	469.62	610.14	150.00	500.00	560.00	580.00	650.00
120.300	514.70	0.0	514.71	588.43	717.43	307.59	616.97	0.0	0.0	560.00	580.00	0.0
120.300	515.18	0.38	515.12	180.00	261.48	172.98	308.86	0.0	0.0	560.00	580.00	0.0

TOP OF FORM

SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	OCH	QROB	PERENC	STENCL	STCK	STCHR	STENCR
120.400	514.71	0.0	514.72	577.59	695.43	344.45	602.11	0.0	0.0	560.00	580.00	650.00
120.400	515.10	0.39	515.14	150.00	544.98	508.13	588.89	150.00	500.00	560.00	580.00	650.00
121.010	514.95	0.0	514.98	303.95	992.20	183.01	209.80	0.0	0.0	478.00	490.00	0.0
121.010	515.53	0.58	515.59	150.00	693.70	233.43	197.86	150.00	400.00	478.00	490.00	550.00
121.000	516.17	0.0	516.21	351.54	772.55	185.12	199.33	0.0	0.0	478.00	490.00	550.00
121.000	516.95	0.77	517.02	150.00	627.93	198.34	300.73	150.00	400.00	478.00	490.00	550.00

SUMMARY OF ERRORS

- CAUTION SECNO= 109.300 PROFILE= 1 HYDRAULIC JUMP D.S.
- CAUTION SECNO= 109.300 PROFILE= 2 HYDRAULIC JUMP D.S.
- CAUTION SECNO= 111.350 PROFILE= 1 HYDRAULIC JUMP D.S.
- CAUTION SECNO= 111.350 PROFILE= 2 HYDRAULIC JUMP D.S.
- CAUTION SECNO= 111.030 PROFILE= 1 CRITICAL DEPTH ASSUMED
- CAUTION SECNO= 111.030 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
- CAUTION SECNO= 111.030 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL
- CAUTION SECNO= 111.030 PROFILE= 2 CRITICAL DEPTH ASSUMED
- CAUTION SECNO= 111.030 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY
- CAUTION SECNO= 111.030 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL
- CAUTION SECNO= 114.200 PROFILE= 1 CRITICAL DEPTH ASSUMED
- CAUTION SECNO= 114.200 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
- CAUTION SECNO= 114.200 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL
- CAUTION SECNO= 114.200 PROFILE= 2 CRITICAL DEPTH ASSUMED
- CAUTION SECNO= 114.200 PROFILE= 2 MINIMUM SPECIFIC ENERGY
- CAUTION SECNO= 116.200 PROFILE= 1 CRITICAL DEPTH ASSUMED
- CAUTION SECNO= 116.200 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
- CAUTION SECNO= 116.200 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL
- CAUTION SECNO= 116.200 PROFILE= 2 CRITICAL DEPTH ASSUMED
- CAUTION SECNO= 116.200 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY
- CAUTION SECNO= 116.200 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL
- CAUTION SECNO= 117.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
- CAUTION SECNO= 117.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
- CAUTION SECNO= 117.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL
- CAUTION SECNO= 117.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
- CAUTION SECNO= 117.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 117.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL  
 CAUTION SECNO= 117.000 PROFILE= 2 CRITICAL DEPTH ASSUMED  
 CAUTION SECNO= 117.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY  
 CAUTION SECNO= 117.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 118.200 PROFILE= 1 CRITICAL DEPTH ASSUMED  
 CAUTION SECNO= 118.200 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY  
 CAUTION SECNO= 118.200 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL  
 CAUTION SECNO= 118.200 PROFILE= 2 CRITICAL DEPTH ASSUMED  
 CAUTION SECNO= 118.200 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY  
 CAUTION SECNO= 118.200 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL

TOP OF FORM

FLOODWAY DATA, MELCHOR BRANCH FLOODWAY  
 PROFILE NO. 1

STATION	WIDTH (FT)	FLOODWAY SECTION AREA	MEAN VELOCITY	WATER SURFACE ELEVATION		DIFFERENCE
				WITH FLOODWAY	WITHOUT FLOODWAY	
109.200	140.	598.	3.7	457.1	456.6	0.5
109.300	100.	762.	2.9	461.7	461.7	0.0
109.400	100.	692.	3.2	461.8	461.5	0.3
109.010	110.	965.	2.3	462.0	461.7	0.3
109.020	120.	1102.	2.0	462.2	461.8	0.4
109.030	120.	751.	3.0	462.2	461.8	0.4
109.040	110.	527.	4.2	462.5	461.0	0.5
109.050	100.	385.	5.8	463.6	462.6	1.0
110.000	170.	452.	4.9	477.8	477.7	0.1
111.200	220.	680.	3.2	478.7	478.4	0.3
111.250	220.	655.	3.4	478.6	478.3	0.3
111.350	275.	785.	2.8	479.0	478.2	0.8
111.500	275.	885.	2.5	479.4	478.8	0.6
111.400	235.	763.	2.9	479.5	479.0	0.5
111.010	130.	547.	4.0	479.7	479.2	0.5
111.020	115.	496.	4.4	480.1	479.7	0.4
111.030	100.	308.	7.1	480.5	480.6	-0.1
112.000	100.	551.	3.9	486.2	487.2	-1.0
113.000	60.	291.	7.2	492.6	491.9	0.7
114.200	60.	225.	9.3	493.3	493.4	-0.1
114.300	60.	386.	5.4	495.9	495.6	0.3
114.400	80.	462.	4.6	496.7	495.7	0.6
115.000	100.	450.	4.6	496.6	496.0	0.6
116.200	100.	250.	8.3	497.9	497.8	0.1
116.300	110.	448.	4.6	499.7	499.2	0.5
116.400	130.	658.	3.2	500.2	499.9	0.3
116.010	120.	527.	3.3	500.3	500.0	0.3
116.020	100.	516.	3.8	500.4	500.1	0.3
116.030	90.	371.	4.6	501.4	500.9	0.5
116.040	80.	302.	5.6	501.9	501.4	0.4
117.000	80.	225.	7.6	503.5	503.6	-0.1
118.200	80.	344.	4.9	506.6	506.6	0.0
118.300	90.	1015.	1.7	514.7	514.5	0.2
118.400	100.	1082.	1.6	514.7	514.5	0.2
119.000	150.	1292.	1.3	514.9	514.6	0.3
120.200	150.	1205.	1.4	514.9	514.6	0.3
120.300	150.	1185.	1.4	515.1	514.7	0.4
120.400	150.	1158.	1.4	515.1	514.7	0.4
121.010	150.	811.	1.7	515.6	515.0	0.6
121.000	160.	545.	2.1	517.0	516.2	0.8

TOP OF FORM

CAUTION SECNO= 117.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL  
 CAUTION SECNO= 117.000 PROFILE= 2 CRITICAL DEPTH ASSUMED  
 CAUTION SECNO= 117.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY  
 CAUTION SECNO= 117.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 118.200 PROFILE= 1 CRITICAL DEPTH ASSUMED  
 CAUTION SECNO= 118.200 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY  
 CAUTION SECNO= 118.200 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL  
 CAUTION SECNO= 118.200 PROFILE= 2 CRITICAL DEPTH ASSUMED  
 CAUTION SECNO= 118.200 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY  
 CAUTION SECNO= 118.200 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL

TOP OF FORM

FLOODWAY DATA, MELCHUR BRANCH FLOODWAY

STATION	WIDTH (FT)	FLOODWAY SECTION AREA	MEAN VELOCITY	WATER SURFACE ELEVATION		DIFFERENCE
				WITH FLOODWAY	WITHOUT FLOODWAY	
109.200	140.	598.	3.7	457.1	456.6	0.5
109.300	100.	742.	2.9	461.7	461.4	0.3
109.400	100.	692.	3.2	461.8	461.5	0.3
109.010	110.	965.	2.3	462.0	461.7	0.3
109.020	120.	1102.	2.0	462.2	461.8	0.4
109.030	120.	761.	3.0	462.2	461.8	0.4
109.040	110.	527.	4.2	462.8	462.0	0.8
109.050	100.	385.	5.8	463.6	462.6	1.0
110.000	170.	452.	4.9	477.8	477.7	0.1
111.200	220.	680.	3.2	478.7	478.4	0.3
111.250	220.	655.	3.4	478.6	478.3	0.3
111.350	275.	785.	2.8	479.0	478.2	0.8
111.300	275.	885.	2.5	479.4	478.8	0.6
111.400	235.	753.	2.9	479.6	479.0	0.6
111.010	130.	547.	4.0	479.7	479.2	0.5
111.020	115.	496.	4.4	480.1	479.7	0.4
111.030	100.	308.	7.1	480.5	480.6	-0.1
112.000	100.	551.	3.9	486.2	487.2	-1.0
113.000	60.	291.	7.2	492.6	491.9	0.7
114.200	60.	225.	9.3	493.3	493.4	-0.1
114.300	60.	386.	5.4	495.9	495.6	0.3
114.400	80.	462.	4.6	496.3	495.7	0.6
115.000	100.	450.	4.6	496.6	496.0	0.6
116.200	100.	250.	8.3	497.9	497.8	0.1
116.300	110.	448.	4.6	499.7	499.2	0.5
116.400	130.	658.	3.2	500.2	499.9	0.3
116.010	120.	527.	3.3	500.3	500.0	0.3
116.020	100.	516.	3.8	500.4	500.1	0.3
116.030	90.	371.	4.6	501.4	500.9	0.5
116.040	80.	302.	6.6	501.8	501.4	0.4
117.000	80.	225.	7.6	503.5	503.6	-0.1
118.200	80.	344.	4.9	506.6	506.6	0.0
118.300	90.	1015.	1.7	514.7	514.5	0.2
118.400	100.	1082.	1.6	514.7	514.8	-0.1
119.000	150.	1292.	1.3	514.9	514.6	0.3
120.200	150.	1205.	1.4	514.9	514.6	0.3
120.300	150.	1185.	1.4	515.1	514.7	0.4
120.400	150.	1158.	1.4	515.1	514.7	0.4
121.010	150.	811.	1.7	515.6	515.0	0.6
121.000	150.	545.	2.1	517.0	516.2	0.8

TOP OF FORM

H-4755

THIS RUN EXECUTED

\*\*\*\*\*  
REC2 RELEASE DATED NOV 76 UPDATED AUG 1977  
ERROR CORR - 01 02  
MODIFICATION - 50,51,52,53  
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MELCHOR BRANCA  
UPPER SECTION  
NAT'L. PROFILES

T1 STANLY CO. - ALBENARLE  
T2  
T3 MELCHOR BRANCH 10 YR.

J1	ICHECK	INO	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FO
	0.	2.	0.	0.	0.0	0.0	-1.0	0.	455.600	0.0

J2	MPROP	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	TBW	CHNIN	ITRACE
	1.000	0.0	-1.000	0.0	0.0	1.200	0.0	0.0	0.0	0.0

J3	VARIABLE CODES FOR SUMMARY PRINTOUT									
	150.000	203.000	29.000	45.000	68.000	0.0	0.0	0.0	0.0	0.0

NC	0.080	0.080	0.065	0.400	0.800	0.0	0.0	0.0	0.0	0.0	0.0
QT	9.000	1246.000	1945.000	2242.000	3064.000	2242.000	2242.000	2242.000	2242.000	2242.000	2242.000
BT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.110	375.000	515.000

X1	109.200	10.000	390.000	450.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GR	470.000	0.0	465.000	120.000	460.000	220.000	455.000	350.000	453.000	390.000	
BT	445.900	400.000	455.000	450.000	455.000	500.000	459.500	550.000	470.000	550.000	
SS	1.250	1.560	3.000	0.0	9.400	2.000	56.500	0.0	448.200	445.900	
ET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.110	350.000	450.000	

X1	109.300	10.000	390.000	450.000	120.000	80.000	110.000	0.0	2.300	0.0	
X2	0.0	0.0	1.000	454.600	458.000	0.0	0.0	0.0	0.0	0.0	
BT	7.000	0.0	472.300	0.0	150.000	467.300	0.0	270.000	462.300	0.0	
BT	375.000	458.000	0.0	520.000	462.300	0.0	610.000	467.300	0.0	730.000	
BT	472.300	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
GR	470.000	0.0	465.000	120.000	460.000	220.000	455.000	350.000	453.000	390.000	
GR	445.900	400.000	455.000	450.000	460.000	550.000	465.000	610.000	470.000	730.000	
ET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.110	350.000	450.000	

X1	109.400	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.800	0.0	
NC	0.0	0.0	0.0	0.010	0.010	0.0	0.0	0.0	0.0	0.0	
NH	4.000	0.070	240.000	0.070	280.000	0.070	120.000	10.000	600.000	0.0	
BT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.110	220.000	330.000	

X1	109.010	11.000	240.000	280.000	100.000	100.000	100.000	0.0	0.0	0.0	
GR	472.000	0.0	467.000	60.000	462.000	115.000	457.000	10.000	452.000	240.000	
GR	450.600	260.000	452.000	280.000	457.000	320.000	462.000	370.000	467.000	440.000	
GR	472.000	470.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
BT	9.000	1238.000	1931.000	2226.000	3040.000	2226.000	2226.000	2226.000	2226.000	2226.000	
NH	4.000	0.070	150.000	0.070	200.000	0.070	1280.000	10.000	400.000	0.0	
BT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.110	100.000	220.000	



GR	452.000	175.000	452.000	200.000	457.000	280.000	462.000	290.000	467.000	350.000
GR	472.000	400.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NH	4.000	0.070	190.000	0.070	220.000	0.070	270.000	10.000	410.000	0.0
ET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.110	140.000	260.000
X1	09.030	11.000	190.000	220.000	100.000	100.000	100.000	0.0	0.0	0.0
GR	472.000	0.0	467.000	35.000	462.000	50.000	457.000	80.000	456.000	190.000
GR	472.000	210.000	456.000	220.000	457.000	270.000	452.000	305.000	457.000	315.000
GR	472.000	410.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
QT	9.000	1234.000	1925.000	2218.000	3029.000	2218.000	2218.000	2218.000	2218.000	2218.000
NH	4.000	0.070	180.000	0.070	210.000	0.070	240.000	10.000	540.000	0.0
ET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.110	150.000	260.000
X1	09.040	13.000	180.000	210.000	100.000	100.000	100.000	0.0	1.000	0.0
GR	472.000	0.0	472.000	30.000	467.000	45.000	462.000	60.000	457.000	85.000
GR	457.000	180.000	454.300	200.000	457.000	210.000	457.000	240.000	462.000	400.000
NH	4.000	0.070	110.000	0.070	140.000	0.070	180.000	10.000	660.000	0.0
ET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.110	70.000	170.000
X1	109.050	11.000	110.000	140.000	100.000	100.000	100.000	0.0	2.200	0.0
GR	472.000	0.0	467.000	10.000	462.000	30.000	458.000	50.000	458.000	110.000
GR	455.000	130.000	458.000	140.000	458.000	180.000	462.000	315.000	467.000	520.000
NC	0.050	0.065	0.070	0.010	0.010	0.0	0.0	0.0	0.0	0.0
QT	9.000	1230.000	1917.000	2209.000	3016.000	2209.000	2209.000	2209.000	2209.000	2209.000
ET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.110	263.000	433.000
X1	110.000	10.000	263.000	294.000	805.000	805.000	805.000	0.0	1.200	0.0
GR	501.500	0.0	501.800	100.000	500.000	168.000	488.500	200.000	479.000	234.000
GR	478.400	263.000	471.500	276.000	471.000	282.000	471.500	288.000	476.500	294.000
GR	477.000	300.000	476.700	400.000	477.300	500.000	479.800	526.000	480.400	600.000
GR	483.900	601.000	492.800	655.000	499.100	680.000	0.0	0.0	0.0	0.0
NC	0.0	0.075	0.080	0.300	0.500	0.0	0.0	0.0	0.0	0.0
QT	9.000	1230.000	1917.000	2209.000	3016.000	2209.000	2209.000	2209.000	2209.000	2209.000
ET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.110	720.000	940.000
X1	111.200	20.000	720.000	765.000	128.000	70.000	103.000	0.0	0.0	0.0
X3	10.000	0.0	0.0	0.0	0.0	0.0	0.0	480.000	475.000	0.0
GR	502.100	0.0	499.300	100.000	497.000	200.000	494.300	300.000	490.900	400.000
GR	486.200	500.000	482.600	600.000	477.500	720.000	470.800	725.000	470.800	780.000
GR	477.500	765.000	477.000	800.000	476.400	900.000	475.900	940.000	476.200	952.000
GR	478.200	1000.000	480.000	1040.000	485.700	1100.000	495.700	1200.000	500.600	1254.000
NC	0.050	0.075	0.021	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.110	720.000	940.000
X1	111.250	0.0	0.0	0.0	1.000	1.000	1.000	0.0	0.0	0.0
X3	10.000	0.0	0.0	0.0	0.0	0.0	0.0	480.000	474.700	0.0
SH	1.250	1.560	3.000	0.0	19.400	0.100	126.000	0.0	471.000	470.800
ET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.110	665.000	940.000
X1	111.350	20.000	665.000	710.000	83.000	83.000	83.000	0.0	0.200	0.0
X2	0.0	0.0	1.000	478.600	474.700	0.0	0.0	0.0	0.0	0.0
X3	10.000	0.0	0.0	0.0	0.0	0.0	0.0	481.000	474.700	0.0
BT	13.000	500.000	486.400	0.0	600.000	482.900	0.0	685.000	481.500	0.0
BT	470.000	480.300	0.0	705.000	480.500	0.0	710.000	480.400	0.0	800.000
BT	478.500	0.0	900.000	476.400	0.0	940.000	475.900	0.0	952.000	476.200
BT	0.0	970.000	474.700	0.0	1.000.000	475.900	0.0	1.100.000	485.700	0.0
GR	502.100	0.0	499.300	100.000	497.000	200.000	494.300	300.000	490.900	400.000
GR	486.200	500.000	480.800	600.000	477.500	665.000	470.800	670.000	470.800	705.000
GR	477.500	710.000	477.000	800.000	476.400	900.000	475.900	940.000	476.200	952.000
GR	478.200	1000.000	480.000	1040.000	485.700	1100.000	495.700	1200.000	500.600	1254.000

GR	502.100	0.0	499.300	100.000	497.000	200.000	494.300	300.000	490.900	400.000
GR	486.200	500.000	480.800	600.000	477.500	665.000	470.800	670.000	470.800	705.000
GR	477.500	710.000	477.000	800.000	476.400	900.000	475.900	940.000	476.200	952.000
GR	478.200	1000.000	480.000	1000.000	485.700	1100.000	495.700	1200.000	500.600	1254.000
NC	0.050	0.075	0.065	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.110	665.000	940.000
1	XI	111.300	0.0	0.0	0.0	1.000	1.000	1.000	0.0	0.0
2	GR	10.000	0.0	0.0	0.0	0.0	0.0	0.0	481.000	474.700
3	NC	0.060	0.070	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	ET	0.0	0.0	0.0	0.0	0.0	0.0	9.110	665.000	940.000
5										
6	XI	111.400	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.200
7	NC	0.080	0.080	0.070	0.010	0.010	0.0	0.0	0.0	0.0
8	ET	0.0	0.0	0.0	0.0	0.0	0.0	9.110	303.000	433.000
9	XI	111.010	13.000	336.000	368.000	50.000	50.000	50.000	0.0	1.900
10	GR	502.000	0.0	497.000	123.000	492.000	181.000	487.000	239.000	482.000
11	GR	477.000	336.000	474.100	349.000	477.000	368.000	482.000	543.000	487.000
12	GR	492.000	685.000	497.000	724.000	502.000	762.000	0.0	0.0	0.0
13	NC	0.115	0.115	0.064	0.010	0.010	0.0	0.0	0.0	0.0
14	ET	9.000	1222.000	1906.000	2198.000	2975.000	2198.000	2198.000	2198.000	2198.000
15	ET	0.0	0.0	0.0	0.0	0.0	0.0	9.110	269.000	384.000
16										
17	XI	111.020	13.000	298.000	327.000	50.000	50.000	50.000	0.0	-0.950
18	GR	502.000	0.0	497.000	109.000	492.000	160.000	487.000	212.000	482.000
19	GR	476.000	298.000	474.100	309.000	476.000	327.000	482.000	481.000	487.000
20	GR	492.000	607.000	497.000	642.000	502.000	676.000	0.0	0.0	0.0
21	ET	0.0	0.0	0.0	0.0	0.0	0.0	9.110	238.000	335.000
22	XI	111.030	13.000	260.000	285.000	50.000	50.000	50.000	0.0	0.0
23	GR	502.000	0.0	497.000	95.000	492.000	140.000	487.000	185.000	482.000
24	GR	477.000	260.000	474.100	270.000	477.000	285.000	482.000	420.000	487.000
25	GR	492.000	530.000	497.000	560.000	502.000	590.000	0.0	0.0	0.0
26	ET	9.000	1205.000	1882.000	2171.000	2967.000	2171.000	2171.000	2171.000	2171.000
27	ET	0.0	0.0	0.0	0.0	0.0	0.0	9.110	135.000	235.000
28	XI	112.000	15.000	151.000	173.000	237.000	407.000	347.000	0.0	0.0
29	GR	502.300	0.0	495.300	54.000	484.200	100.000	482.900	106.000	482.400
30	GR	491.400	157.000	480.800	162.000	481.400	167.000	482.800	173.000	482.700
31	GR	484.900	274.000	489.100	281.000	491.000	300.000	496.400	361.000	502.500
32	NC	0.040	0.050	0.035	0.0	0.0	0.0	0.0	0.0	0.0
33	ET	9.000	1159.000	1818.000	2101.000	2879.000	2101.000	2101.000	2101.000	2101.000
34	ET	70.0	0.0	0.0	0.0	0.0	0.0	9.110	707.100	767.100
35	XI	113.000	26.000	727.000	767.100	670.000	570.000	690.000	0.0	-0.400
36	GR	509.700	0.0	506.900	100.000	504.700	174.000	504.000	200.000	503.600
37	GR	504.400	213.000	502.500	220.000	501.400	300.000	504.900	400.000	506.100
38	GR	505.200	500.000	496.100	600.000	495.300	604.000	495.100	635.000	495.500
39	GR	492.400	656.000	490.700	700.000	489.000	727.000	487.200	742.000	487.000
40	GR	487.200	764.000	487.900	767.000	491.600	767.100	492.800	800.000	493.200
41	GR	509.800	841.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42	NC	0.0	0.0	0.0	0.300	0.500	0.0	0.0	0.0	0.0
43	ET	9.000	1159.000	1818.000	2101.000	2879.000	2101.000	2101.000	2101.000	2101.000
44	ET	0.0	0.0	0.0	0.0	0.0	0.0	9.110	740.000	800.000
45	XI	114.200	19.000	758.000	785.000	105.000	105.000	105.000	0.0	0.0
46	GR	10.000	0.0	0.0	0.0	0.0	0.0	0.0	493.200	493.200
47	GR	509.900	0.0	506.800	100.000	505.500	200.000	504.800	300.000	504.500
48	GR	502.100	500.000	496.200	610.000	494.900	639.000	492.500	700.000	490.500
49	GR	482.000	758.100	487.700	762.000	487.400	774.000	487.700	784.000	490.500

	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.110	740.000	800.000
X1	114.300	0.0	0.0	0.0	30.000	30.000	30.000	0.0	0.0	0.0	0.0
X2	0.0	0.0	1.000	492.400	494.000	0.0	0.0	0.0	0.0	0.0	0.0
GR	1.000	500.000	502.100	502.100	600.000	496.200	496.200	539.000	494.900	494.000	0.0
GR	300.000	494.600	492.500	758.000	494.000	498.600	758.100	494.000	492.400	784.900	0.0
GR	300.000	492.400	785.000	494.000	490.500	600.000	496.400	494.000	474.000	498.500	0.0
BT	498.500	900.000	503.500	503.500	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.110	720.000	800.000	0.0
X1	114.400	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.500	0.0	0.0
GR	0.0	0.0	0.0	0.010	0.010	0.0	0.0	0.0	0.0	0.0	0.0
GR	0.0	0.200	140.000	0.100	200.000	0.050	276.000	0.035	323.000	0.050	0.050
GR	300.000	0.200	440.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
QT	9.000	1147.000	1801.000	2082.000	2857.000	2082.000	2082.000	2082.000	2082.000	2082.000	2082.000
ET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.110	250.000	350.000	0.0
X1	115.000	17.000	288.000	323.000	165.000	165.000	165.000	0.0	-0.700	0.0	0.0
GR	512.800	0.0	511.100	42.000	504.100	56.000	502.800	180.000	502.000	92.000	0.0
GR	497.600	100.000	494.200	140.000	494.300	200.000	494.800	276.000	492.300	288.000	0.0
GR	490.500	290.000	490.400	300.000	490.400	310.000	492.600	323.000	493.200	362.000	0.0
GR	500.700	400.000	512.800	440.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.0	0.0	0.0	0.300	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.110	240.000	340.100	0.0
X1	116.200	18.000	312.000	340.100	102.000	102.000	102.000	0.0	0.0	0.0	0.0
X3	10.000	0.0	0.0	0.0	0.0	0.0	0.0	496.500	499.500	0.0	0.0
GR	513.500	0.0	504.000	100.000	499.000	162.000	498.500	200.000	496.700	300.000	0.0
GR	496.500	312.000	491.700	313.000	490.900	321.000	490.700	325.000	490.900	330.000	0.0
GR	491.800	340.000	495.500	340.100	497.200	400.000	500.100	500.000	503.100	600.000	0.0
GR	506.000	700.000	511.500	800.000	514.500	845.000	0.0	0.0	0.0	0.0	0.0
SB	1.250	1.560	2.900	0.0	25.100	0.010	196.000	0.0	490.700	490.700	0.0
ET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.110	230.000	340.100	0.0
X1	116.300	0.0	0.0	0.0	36.000	36.000	36.000	0.0	0.0	0.0	0.0
X2	0.0	0.0	1.000	498.500	498.500	0.0	0.0	0.0	0.0	0.0	0.0
X3	10.000	0.0	0.0	0.0	0.0	0.0	0.0	498.500	500.500	0.0	0.0
BT	11.000	100.000	504.000	504.000	162.000	499.000	499.000	200.000	498.500	498.500	0.0
BT	300.000	499.700	496.700	312.000	499.700	496.500	313.000	499.800	498.000	340.000	0.0
BT	500.300	498.500	340.100	500.300	495.500	400.000	501.000	497.200	500.000	502.000	0.0
BT	500.100	600.000	503.100	503.100	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.110	150.000	280.000	0.0
X1	116.400	9.000	220.000	250.000	50.000	50.000	50.000	0.0	0.0	0.0	0.0
GR	507.000	0.0	502.000	55.000	497.000	165.000	496.000	220.000	491.000	230.000	0.0
GR	493.000	250.000	497.000	310.000	502.000	420.000	507.000	500.000	0.0	0.0	0.0
NC	0.0	0.0	0.0	0.010	0.010	0.0	0.0	0.0	0.0	0.0	0.0
ET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.110	130.000	250.000	0.0
X1	116.010	9.000	185.000	215.000	100.000	100.000	100.000	0.0	0.0	0.0	0.0
GR	507.000	0.0	502.000	55.000	497.000	135.000	496.000	185.000	491.600	195.000	0.0
GR	493.000	215.000	497.000	260.000	502.000	380.000	507.000	440.000	0.0	0.0	0.0
QT	9.000	1075.000	1703.000	1976.000	2730.000	1976.000	1976.000	1976.000	1976.000	1976.000	1976.000
ET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.110	110.000	210.000	0.0
GR	507.000	0.0	502.000	45.000	497.000	85.000	496.000	150.000	492.200	160.000	0.0
GR	493.000	180.000	497.000	200.000	502.000	345.000	507.000	420.000	0.0	0.0	0.0
BT	9.000	887.000	1446.000	1698.000	2395.000	1698.000	1698.000	1698.000	1698.000	1698.000	1698.000
ET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.110	130.000	220.000	0.0

GR	493.000	180.000	497.000	200.000	502.000	345.000	507.000	420.000	0.0	0.0
QT	9.000	887.000	1446.000	1698.000	2395.000	1698.000	1698.000	1698.000	1698.000	1698.000
ET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.110	130.000	220.000
X1	116.030	9.000	161.500	190.000	525.000	525.000	525.000	0.0	0.0	0.0
GR	512.000	0.0	507.000	28.500	502.000	47.500	497.000	161.500	495.300	175.750
BT	497.000	190.000	502.000	295.000	507.000	518.250	512.000	351.500	0.0	0.0
ET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.110	80.000	160.000
X1	116.040	12.000	105.000	135.000	128.000	133.000	148.000	0.0	0.0	0.0
GR	517.000	0.0	512.000	15.000	507.000	30.000	502.000	50.000	497.800	105.000
GR	496.100	120.000	497.800	135.000	498.500	150.000	502.000	240.000	507.000	290.000
GR	512.000	360.000	517.000	425.000	0.0	0.0	0.0	0.0	0.0	0.0
ET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.110	110.000	180.000
X1	117.000	14.000	127.000	149.000	129.000	136.000	149.000	0.0	-0.500	0.0
GR	522.000	0.0	514.300	43.000	512.700	73.000	504.200	100.000	501.200	127.000
GR	497.700	131.000	497.400	137.000	497.600	141.000	501.100	149.000	503.600	200.000
GR	518.000	267.000	519.200	300.000	521.000	400.000	522.000	440.000	0.0	0.0
NC	0.0	0.0	0.0	0.300	0.500	0.0	0.0	0.0	0.0	0.0
ET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.110	150.000	230.000
X1	118.200	14.000	166.500	175.500	104.000	104.000	104.000	0.0	-1.100	0.0
X3	10.000	0.0	0.0	0.0	0.0	0.0	0.0	506.400	506.500	0.0
GR	522.000	0.0	513.900	100.000	505.000	135.000	503.500	160.000	503.100	166.500
GR	500.900	167.100	498.600	171.000	500.900	174.900	503.100	175.500	503.800	200.000
GR	504.500	235.000	516.300	300.000	520.000	400.000	522.000	469.000	0.0	0.0
SB	1.250	1.560	3.000	0.0	8.000	0.0	63.600	0.0	498.600	497.500
ET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.110	140.000	230.000
X1	118.300	0.0	0.0	0.0	72.000	72.000	72.000	0.0	1.100	0.0
X2	0.0	0.0	1.000	507.600	512.600	0.0	0.0	0.0	0.0	0.0
X3	10.000	0.0	0.0	0.0	0.0	0.0	0.0	512.600	512.800	0.0
BT	13.000	0.0	522.000	522.000	100.000	513.900	513.900	135.000	513.200	505.000
BT	160.000	512.600	503.500	166.500	512.800	503.100	167.100	512.900	505.400	171.000
BT	512.900	507.600	174.900	513.000	505.400	175.500	513.000	503.100	200.000	513.300
BT	503.800	235.000	514.400	504.500	300.000	516.300	516.300	400.000	520.000	520.000
ET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.110	130.000	230.000
X1	118.400	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.300	0.0
NC	0.070	0.070	0.048	0.010	0.010	0.0	0.0	0.0	0.0	0.0
NH	5.000	0.150	125.000	0.070	166.000	0.048	180.000	0.070	300.000	0.150
NH	593.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
QT	9.000	854.000	1396.000	1642.000	2320.000	1642.000	1642.000	1642.000	1642.000	1642.000
ET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.110	135.000	285.000
X1	119.000	16.000	166.000	190.000	624.000	654.000	674.000	0.0	-0.300	0.0
GR	527.100	0.0	525.400	42.000	519.000	88.000	519.100	100.000	514.900	126.000
GR	506.700	159.000	506.000	166.000	503.700	170.000	503.000	176.000	503.700	179.000
GR	504.300	180.000	505.400	200.000	508.200	300.000	514.500	400.000	520.400	500.000
GR	517.100	593.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.0	0.0	0.0	0.300	0.500	0.0	0.0	0.0	0.0	0.0
NH	5.000	0.150	450.000	0.070	560.000	0.048	580.000	0.070	700.000	0.150
NH	1100.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
QT	9.000	854.000	1396.000	1642.000	2320.000	1642.000	1642.000	1642.000	1642.000	1642.000
ET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.110	500.000	650.000
X1	120.200	14.000	560.000	580.000	154.000	154.000	104.000	0.0	-0.300	0.0
GR	520.300	100.000	516.200	200.000	513.100	300.000	511.100	400.000	509.600	450.000

BT	1.250	1.560	3.000	0.0	6.000	0.100	30.000	0.0	504.100	507.800
ET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.110	500.000	650.000
X1	120.300	0.0	0.0	0.0	72.000	72.000	72.000	0.0	0.300	0.0
BT	0.0	0.0	1.000	508.800	510.100	0.0	0.0	0.0	0.0	0.0
NH	0.000	0.0	0.0	0.0	0.0	0.0	0.0	510.100	510.100	0.0
ET	0.000	100.000	520.300	0.0	200.000	516.200	0.0	300.000	513.100	0.0
BT	0.000	511.100	0.0	500.000	510.100	0.0	600.000	510.100	0.0	500.000
BT	510.800	0.0	800.000	513.100	0.0	1000.000	522.200	0.0	0.0	0.0
NH	5.000	0.200	450.000	0.080	560.000	0.050	580.000	0.080	700.000	0.200
NH	1100.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.110	500.000	650.000
X1	120.410	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.200	0.0
BT	0.0	0.0	0.0	0.010	0.010	0.0	0.0	0.0	0.0	0.0
NH	5.000	0.150	400.000	0.080	478.000	0.070	490.000	0.100	520.000	0.200
NH	660.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BT	9.000	692.000	1163.000	1385.000	2000.000	1385.000	1385.000	1385.000	305.000	1385.000
ET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.110	375.000	525.000
X1	121.010	13.000	478.000	490.000	497.000	527.000	657.000	0.0	3.000	0.0
GR	540.000	0.0	522.500	200.000	513.600	325.000	513.200	400.000	513.600	478.000
GR	510.800	483.000	509.700	486.000	510.800	489.000	512.800	490.000	513.100	500.000
GR	513.200	528.000	521.800	600.000	534.000	660.000	0.0	0.0	0.0	0.0
NH	5.000	0.150	400.000	0.080	478.000	0.080	490.000	0.110	528.000	0.200
NH	660.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BT	9.000	530.000	930.000	1127.000	1679.000	1127.000	1127.000	1127.000	1127.000	1127.000
ET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.110	400.000	550.000
X1	121.000	14.000	478.000	490.000	497.000	527.000	657.000	0.0	0.0	0.0
GR	536.700	0.0	523.000	100.000	516.200	200.000	513.800	300.000	513.200	400.000
GR	513.600	478.000	510.800	483.000	509.700	486.000	510.800	489.000	512.800	490.000
GR	513.100	500.000	513.200	528.000	521.800	600.000	534.000	660.000	0.0	0.0
ET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TOP OF FORM

\*PROF 1

CCHV= 0.400 CFHV= 0.800

\*SECNO 109.200

SECNO	DEPTH	CWSEL	CRIMS	WSELK	EG	HV	HL	DLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	ARDB	VGL	TWA	LEFT/RIGHT
SLOPE	XLUBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
100.20	9.70	455.60	0.0	455.60	455.70	0.10	0.0	0.0	453.00
46.	88.	1.136.	22.	69.	319.	32.	0.	0.	455.00
0.0	1.28	3.56	0.68	0.096	0.078	0.096	0.0	445.90	334.40
0.004027	0.	0.	0.	0	0	0	0.0	172.26	506.67

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV 451.60 NOT 455.60 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

KK	KKUR	COFO	RDLN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
1.25	1.56	3.00	0.0	9.40	3.00	56.50	0.0	448.20	445.90

\*SECNO 109.300

PRELIMINARY AND WEIR FLOW

TOP OF FORM

THIS RUN EXECUTED

\*\*\*\*\*  
 HEC2 RELEASE DATED NOV 76 UPDATED AUG 1977  
 ERROR CORR - 01.02  
 MODIFICATION - 50,51,52,53  
 \*\*\*\*\*

STANLEY CO. - ALBEMARLE  
 WELCH BR BRANCH 50-YR.

JI	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
0.	3.	0.	0.	0.0	0.0	-1.0	0.	0.	456.400	0.0
IRDF	IRLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBV	CHNIN	ITRACE	
2.000	0.0	-1.000	0.0	0.0	1.200	0.0	0.0	0.0	0.0	

TOP OF FORM

\*SECNO 109.200

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	OLSS	BANK	ELEV
TIME	VLOB	VCH	VROB	XNI	XNCH	XNR	WTN	ELWIN	LEFT/RIGHT	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	
109.20	10.50	456.40	0.0	456.40	456.66	0.26	0.0	0.0	453.00	
1945.	217.	1625.	107.	121.	367.	81.	0.	0.	455.00	
0.0	1.76	4.43	1.32	0.096	0.078	0.096	0.0	445.90	313.60	
0.005159	0.	0.	0.	0	0	0	0.0	201.95	515.55	

SPECIAL BRIDGE  
 5227 DOWNSTREAM ELEV IS 453.58 .NOT 456.40 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	XK	XKOR	COFO	ROLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.50	3.00	0.0	9.40	2.00	56.50	0.0	448.20	445.90

\*SECNO 109.300  
 PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	OWEIR	QPR	BAREA	TRAPEZOID	ELLC	ELTRD	
AREA									
485.11	467.40	0.0	1161.	798.	57.	47.	454.60	458.00	
109.30	12.95	461.15	0.0	0.0	461.24	0.08	448.20	445.90	
1945.	456.	1367.	122.	387.	514.	148.	448.20	445.90	
0.01	1.18	2.66	0.82	0.096	0.078	0.096	0.077	448.20	249.83

120.40 10.00 514.30 0.0 0.0 514.31 0.01 0.01 0.00 506.80  
 1396. 585. 308. 503. 1062. 197. 873. 93. 26. 506.80  
 0.63 0.55 1.56 0.58 0.114 0.060 0.106 0.059 504.30 267.88  
 0.000231 50. 50. 50. 0 0 0 0.0 554.75 822.63

CCHV= 0.010 CEHV= 0.010

121.01 7.82 514.52 0.0 0.0 514.53 0.02 0.24 0.00 510.60  
 1183. 826. 162. 175. 719. 76. 246. 112. 31. 509.80  
 0.75 1.12 2.14 0.71 0.128 0.084 0.197 0.060 506.70 269.92  
 0.001584 497. 657. 527. 2 0 0 0.0 294.26 564.18

121.00 5.07 515.77 0.0 0.0 515.81 0.04 1.26 0.00 513.60  
 130. 620. 144. 166. 493. 55. 129. 122. 35. 512.80  
 0.85 1.26 2.62 1.29 0.132 0.096 0.141 0.061 509.70 217.93  
 0.006770 497. 657. 527. 2 0 0 0.0 311.58 549.51

--- TOP OF FORM ---

THIS RUN EXECUTED

\*\*\*\*\*  
 HEC2 RELEASE DATED NOV 76 UPDATED AUG1977  
 ERROR CORR = 01.02

MODIFICATION - 50,51,52,53

T1 STANLY CO. - ALBEMARLE  
 T2  
 T3 MELCHIOR BRANCH 100 YR.

J1 CHECK INO NINV IDIR STRY METRIC HVINS Q. WSEL FO  
 0. 4. 0. 0. 0.0 0.0 -1.0 0. 456.650 0.0  
 J2 NPROF IPILOT PREVS XSECV XSECH FN ALLDC IBW CHNIM ITRACE  
 3.000 0.0 -1.000 0.0 0.0 1.200 0.0 0.0 0.0 15.000

--- TOP OF FORM ---

\*PROF 3

CCHV= 0.400 CEHV= 0.800

109.210  
 DEPTH CWSL CHWS WSEL EG HV HL QDSS BANK ELEV  
 VLOB OCH OROB ALOB ACH ARDB VOB TVAL LEFT/RIGHT  
 TIME VLOB VCH VROB XNL XNCH XNR WTN ELMIN SSTA  
 SLOPE XLOB XLCH XLOR XNL XNCH XNR WTN ELMIN SSTA

VEL= 0.1 0.2 0.3 0.8 1.5 0.8 0.2 0.1

1490 NH CARD USED

\*SECNO 120.000

120.40	10.41	514.71	0.0	0.0	514.72	0.01	0.01	0.00	506.80
1642.	695.	344.	602.	1187.	206.	976.	103.	28.	506.80
0.60	0.59	1.67	0.62	0.116	0.060	0.108	0.059	0.040	254.48
50.	50.	50.	50.	0	0	0	0	0	532.07

PLUM DISTRIBUTION FOR SECNO= 120.00 CWSPL= 514.71

STA=	254.	300.	400.	450.	560.	580.	700.	800.	832.
PER Q=	0.2	2.6	3.2	36.4	21.0	33.7	2.9	0.1	
AREA=	32.1	241.1	208.1	705.2	205.7	697.3	256.1	22.6	
VEL=	0.1	0.2	0.3	0.8	1.7	0.8	0.2	0.1	

CHV= 0.010 CENV= 0.010

1390 NH CARD USED

\*SECNO 121.010

121.01	8.25	514.95	0.0	0.0	514.98	0.03	0.26	0.00	510.60
1385.	992.	183.	210.	830.	81.	279.	125.	34.	509.80
0.71	1.20	2.26	0.75	0.122	0.084	0.198	0.060	506.70	263.85
497.	657.	527.	2	0	0	0	0	303.95	567.80

PLUM DISTRIBUTION FOR SECNO= 121.01 CWSPL= 514.98

STA=	264.	325.	400.	478.	490.	500.	528.	568.	
PER Q=	5.3	22.5	43.8	13.2	5.3	6.9	3.0		
AREA=	131.1	341.6	355.2	81.1	50.0	130.5	94.6		
VEL=	0.5	0.9	1.7	2.3	1.5	0.7	0.4		

1390 NH CARD USED

\*SECNO 121.000

SECNO	DEPTH	CWSEL	CRIMS	WSELK	EG	HV	HL	OLJSS	BANK	ELEV
Q	CLOB	QCH	QROB	ALOB	ACH	ARQB	VOL	TWA	LEFT/RIGHT	
TIME	VLDB	VCH	VROB	XLN	XNCH	XNR	WTN	ELMIN	SSTA	
SLOPE	XLDB	XLCH	XLDBR	ITRIAL	IDC	ICONT	CCRAR	TOPWID	ENDST	
121.00	6.47	516.17	0.0	0.0	516.21	0.04	1.23	0.00		513.60
1127.	773.	155.	199.	600.	60.	154.	136.	37.		512.80
0.81	1.29	2.60	1.30	0.134	0.096	0.142	0.061	509.70		201.31
0.004208	497.	657.	527.	2	0	0	0.0	351.54		552.85

PLUM DISTRIBUTION FOR SECNO= 121.00 CWSPL= 516.17

STA=	201.	300.	400.	478.	490.	500.	528.	553.	
PER Q=	6.2	24.4	37.9	13.8	4.5	11.4	1.7		
AREA=	116.9	266.9	216.0	59.7	32.2	84.5	36.9		
VEL=	0.6	1.0	2.0	2.6	1.6	1.5	0.5		

TOP OF FORM

THIS RUN EXECUTED

\*\*\*\*\*  
 HEC2 RELEASE DATED NOV 76 UPDATED AUG 1977  
 CORR CORR - 01.02  
 MODIFICATION - 50.51, 52.53  
 \*\*\*\*\*



ICHECK INO NINV IDIR STRI METRIC HVINS Q WSEL FQ  
0 5 0 0 0 0 0 -1.0 0 457.000 0.0

PROVS XSECV XSECH XSECH XSECH XSECH XSECH XSECH XSECH XSECH XSECH XSECH  
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

TOP OF FORM

CHEV= 0.000 CEHV= 0.000

SECNO 109.200

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	LCH	XLOBR	TRIAL	IDC	ICONT	CORAR	TOPID	ENDST
109.20	11.50	457.40	0.0	457.40	457.75	0.35	0.0	0.00	451.00
3064.	476.	2283.	305.	211.	427.	152.	0.	0.	455.00
0.0	2.26	5.35	2.01	0.096	0.078	0.096	0.0	445.90	287.60
0.006153	0.	0.	0.	0	0	0	0.0	239.06	526.67

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 456.29 NOT 457.40 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	XK	XKOR	COFO	FDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
1.25	1.56	3.00	0.0	9.40	2.00	56.50	0.0	448.20	445.90	

SECNO 109.300

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	EI.TRO
528.64	474.19	0.0	2293.	795.	57.	47.	454.60	458.00
109.30	13.92	462.12	0.0	0.0	462.25	0.13	4.50	0.0
3064.	831.	1966.	268.	534.	572.	232.	3.	1.
0.01	1.55	3.44	1.15	0.096	0.078	0.096	0.078	448.20
0.001720	120.	110.	80.	2	0	8	0.0	321.62

SECNO 109.400

109.40	13.21	462.21	0.0	0.0	462.39	0.18	0.10	0.04
3064.	750.	2101.	213.	424.	530.	169.	4.	1.
0.021	1.77	3.97	1.26	0.096	0.078	0.096	0.077	449.00
0.002540	50.	50.	50.	2	0	0	0.0	289.12

CHEV= 0.010 CEHV= 0.010

PROV CARD USED

SECNO 109.010

109.01	11.66	462.46	0.0	0.0	462.52	0.06	0.13	0.00
3064.	1366.	1082.	615.	771.	446.	468.	7.	2.
0.03	1.77	2.42	1.31	0.084	0.084	0.104	0.077	450.60
0.000756	100.	100.	100.	2	0	0	0.0	266.50

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

SECNO	XLCH	ELTRD	ELLC	ELMIN	O	CWSEL	CRWS	EG	10K+S	VCH	AREA	.01K
109.200	0.0	0.0	0.0	445.90	1246.00	455.50	0.0	455.76	40.27	3.56	419.67	191.36
109.200	0.0	0.0	0.0	445.90	1945.00	456.40	0.0	456.68	81.60	4.43	569.36	271.78
109.200	0.0	0.0	0.0	445.90	2242.00	456.65	0.0	456.95	56.65	4.76	621.01	291.69
109.200	0.0	0.0	0.0	445.90	3064.00	457.40	0.0	457.75	61.53	5.35	789.87	393.62
* 109.300	110.00	458.00	454.60	448.20	1246.00	460.19	0.0	460.24	8.70	2.10	803.40	421.38
* 109.300	110.00	458.00	454.60	448.20	1945.00	461.15	0.0	461.24	11.87	2.66	1049.65	561.55
* 109.300	110.00	458.00	454.60	448.20	2242.00	461.43	0.0	461.53	13.43	2.89	1129.30	611.75
* 109.300	110.00	458.00	454.60	448.20	3064.00	462.12	0.0	462.25	17.20	3.44	1338.68	731.54
109.400	50.00	0.0	0.0	449.00	1246.00	460.24	0.0	460.32	14.09	2.50	641.64	331.98
109.400	50.00	0.0	0.0	449.00	1945.00	461.22	0.0	461.35	18.38	3.12	858.52	453.71
109.400	50.00	0.0	0.0	449.00	2242.00	461.51	0.0	461.64	20.50	3.37	930.75	495.19
109.400	50.00	0.0	0.0	449.00	3064.00	462.21	0.0	462.39	25.40	3.97	1122.92	607.97
109.010	100.00	0.0	0.0	450.60	1246.00	460.36	0.0	460.38	3.26	1.38	1170.48	692.40
109.010	100.00	0.0	0.0	450.60	1945.00	461.39	0.0	461.42	4.81	1.81	1413.41	887.09
109.010	100.00	0.0	0.0	450.60	2242.00	461.70	0.0	461.74	5.87	1.99	1490.10	949.97
109.010	100.00	0.0	0.0	450.60	3064.00	462.46	0.0	462.52	7.56	2.42	1685.45	1114.97
109.020	100.00	0.0	0.0	452.00	1238.00	460.39	0.0	460.41	2.47	1.15	1278.50	787.12
109.020	100.00	0.0	0.0	452.00	1931.00	461.44	0.0	461.46	3.67	1.51	1502.36	1008.59
109.020	100.00	0.0	0.0	452.00	2226.00	461.76	0.0	461.79	4.24	1.66	1571.73	1080.71
109.020	100.00	0.0	0.0	452.00	3040.00	462.54	0.0	462.59	5.75	2.04	1745.48	1267.26
109.030	100.00	0.0	0.0	453.80	1238.00	460.42	0.0	460.45	11.06	1.82	856.84	372.31
109.030	100.00	0.0	0.0	453.80	1931.00	461.48	0.0	461.53	12.56	2.18	1104.68	544.83
109.030	100.00	0.0	0.0	453.80	2226.00	461.80	0.0	461.86	13.61	2.35	1183.22	603.33
109.030	100.00	0.0	0.0	453.80	3040.00	462.69	0.0	462.68	16.07	2.74	1379.46	758.30
109.040	100.00	0.0	0.0	455.30	1234.00	460.56	0.0	460.67	59.24	3.34	558.45	160.33
109.040	100.00	0.0	0.0	455.30	1925.00	461.62	0.0	461.75	49.45	3.58	844.57	273.75
109.040	100.00	0.0	0.0	455.30	2218.00	461.95	0.0	462.09	49.72	3.75	942.79	314.57
109.040	100.00	0.0	0.0	455.30	3029.00	462.78	0.0	462.94	51.05	4.18	1198.69	423.93
109.050	100.00	0.0	0.0	457.20	1234.00	461.44	461.44	462.06	523.31	7.81	236.16	53.95
109.050	100.00	0.0	0.0	457.20	1925.00	462.25	0.0	462.80	346.54	7.55	392.09	103.41
109.050	100.00	0.0	0.0	457.20	2218.00	462.58	0.0	463.10	301.97	7.47	462.90	127.64
109.050	100.00	0.0	0.0	457.20	3029.00	463.37	0.0	463.90	238.97	7.54	652.96	195.94

TOP OF FORM

SECNO	XLCH	ELTRD	ELLC	ELMIN	O	CWSEL	CRWS	EG	10K+S	VCH	AREA	.01K
110.000	805.00	0.0	0.0	469.90	1230.00	477.03	0.0	477.25	96.17	4.64	403.11	125.42
110.000	805.00	0.0	0.0	469.90	1917.00	477.52	0.0	477.79	115.87	5.37	521.82	178.09
110.000	805.00	0.0	0.0	469.90	2209.00	477.67	0.0	477.98	124.37	5.68	563.91	198.08
110.000	805.00	0.0	0.0	469.90	3016.00	478.07	0.0	478.55	141.89	6.38	676.65	253.71
111.200	103.00	0.0	0.0	470.80	1230.00	477.59	0.0	477.78	36.81	1.78	473.38	203.88
111.200	103.00	0.0	0.0	470.80	1917.00	478.20	0.0	478.45	49.94	4.67	635.81	271.28
111.200	103.00	0.0	0.0	470.80	2209.00	478.40	0.0	478.68	54.19	4.95	696.72	300.07
111.200	103.00	0.0	0.0	470.80	3016.00	478.92	0.0	479.25	63.70	5.61	848.25	377.88

1	111.200	103.00	0.0	0.0	470.80	1917.00	478.40	0.0	478.68	54.19	4.95	648.72	300.07
2	111.200	103.00	0.0	0.0	470.80	2209.00	478.92	0.0	479.25	63.70	5.61	848.25	377.88
3	111.250	1.00	0.0	0.0	470.80	1230.00	477.56	0.0	477.82	5.76	4.26	463.25	512.39
4	111.250	1.00	0.0	0.0	470.80	1917.00	478.09	0.0	478.56	9.65	5.81	608.27	616.99
5	111.250	1.00	0.0	0.0	470.80	2209.00	478.27	0.0	478.83	11.39	6.41	657.10	654.52
6	111.250	1.00	0.0	0.0	470.80	3016.00	478.68	0.0	479.50	16.14	7.91	776.08	750.61
7	111.350	83.00	474.70	478.60	471.00	1230.00	477.52	0.0	477.82	6.76	4.52	407.71	473.19
8	111.350	83.00	474.70	478.60	471.00	1917.00	478.02	0.0	478.56	11.37	6.15	569.85	566.65
9	111.350	83.00	474.70	478.60	471.00	2209.00	478.18	0.0	478.83	13.56	6.82	618.41	599.86
10	111.350	83.00	474.70	478.60	471.00	3016.00	478.56	0.0	479.50	19.18	8.39	748.10	688.72
11	111.300	1.00	0.0	0.0	471.00	1230.00	477.65	0.0	477.85	47.67	3.92	445.96	178.15
12	111.300	1.00	0.0	0.0	471.00	1917.00	478.45	0.0	478.66	49.42	4.31	707.54	272.69
13	111.300	1.00	0.0	0.0	471.00	2209.00	478.76	0.0	478.96	48.13	4.36	810.46	318.42
14	111.300	1.00	0.0	0.0	471.00	3016.00	479.54	0.0	479.73	43.10	4.40	1088.31	459.39
15	111.400	50.00	0.0	0.0	471.20	1230.00	477.90	0.0	478.09	44.67	3.81	459.04	184.04
16	111.400	50.00	0.0	0.0	471.20	1917.00	478.72	0.0	478.90	43.25	4.09	736.67	291.50
17	111.400	50.00	0.0	0.0	471.20	2209.00	479.02	0.0	479.19	41.73	4.13	644.88	341.94
18	111.400	50.00	0.0	0.0	471.20	3016.00	479.77	0.0	479.93	37.51	4.19	1132.18	492.42
19	111.010	50.00	0.0	0.0	472.20	1230.00	478.16	0.0	478.42	112.26	5.06	374.26	116.09
20	111.010	50.00	0.0	0.0	472.20	1917.00	478.92	0.0	479.24	120.50	5.81	527.11	174.63
21	111.010	50.00	0.0	0.0	472.20	2209.00	479.19	0.0	479.53	122.47	6.06	588.64	199.61
22	111.010	50.00	0.0	0.0	472.20	3016.00	479.88	0.0	480.25	121.81	6.54	760.86	273.27
23	111.020	50.00	0.0	0.0	473.15	1222.00	478.64	0.0	479.03	131.38	6.05	365.19	106.61
24	111.020	50.00	0.0	0.0	473.15	1906.00	479.40	0.0	479.93	158.47	7.36	495.21	151.41
25	111.020	50.00	0.0	0.0	473.15	2198.00	479.66	0.0	480.24	168.72	7.84	544.88	169.22
26	111.020	50.00	0.0	0.0	473.15	2975.00	480.28	0.0	481.00	188.40	8.89	673.00	216.74
27	111.030	50.00	0.0	0.0	474.10	1222.00	479.50	479.50	480.57	390.21	9.39	218.00	51.86
28	111.030	50.00	0.0	0.0	474.10	1906.00	480.34	480.34	481.56	388.03	10.64	331.72	96.76
29	111.030	50.00	0.0	0.0	474.10	2198.00	480.65	480.65	481.91	383.61	11.02	379.94	112.22
30	111.030	50.00	0.0	0.0	474.10	2975.00	481.32	481.32	482.69	383.80	11.97	498.67	151.86
31	112.000	347.00	0.0	0.0	480.80	1205.00	485.87	0.0	486.03	84.94	4.65	496.52	130.75
32	112.000	347.00	0.0	0.0	480.80	1882.00	486.81	0.0	487.01	84.39	5.30	670.78	204.87
33	112.000	347.00	0.0	0.0	480.80	2171.00	487.15	0.0	487.37	84.94	5.54	735.69	235.55
34	112.000	347.00	0.0	0.0	480.80	2967.00	487.99	0.0	488.24	87.17	6.17	896.11	317.79
35	113.000	690.00	0.0	0.0	486.60	1159.00	490.77	0.0	491.48	79.15	7.08	185.12	130.27
36	113.000	690.00	0.0	0.0	486.60	1818.00	491.62	0.0	492.53	82.37	8.25	264.54	200.31
37	113.000	690.00	0.0	0.0	486.60	2101.00	491.93	0.0	492.90	82.43	8.62	301.55	231.41
38	113.000	690.00	0.0	0.0	486.60	2879.00	492.66	0.0	493.71	79.06	9.28	407.02	223.79

TOP OF FORM

	SECNO	XLCH	ELTRD	ELLC	ELMIN	O	CWSEL	CRWS	EG	10K*5	VCH	AREA	.01K
39	114.200	105.00	0.0	0.0	487.40	1159.00	491.45	491.45	493.38	215.91	11.15	103.92	78.88
40	114.200	105.00	0.0	0.0	487.40	1818.00	492.73	492.73	495.41	214.56	13.13	138.49	124.11
41	114.200	105.00	0.0	0.0	487.40	2101.00	493.40	493.40	494.42	84.05	9.33	320.96	229.17
42	114.200	105.00	0.0	0.0	487.40	2879.00	493.88	493.88	495.15	100.76	10.76	391.07	286.81
43	114.300	30.00	494.00	492.40	487.40	1159.00	493.02	0.0	494.27	237.98	8.96	129.39	75.13
44	114.300	30.00	494.00	492.40	487.40	1818.00	495.23	0.0	495.41	12.84	4.37	635.60	507.41
45	114.300	30.00	494.00	492.40	487.40	2101.00	495.64	0.0	495.83	12.40	4.45	726.08	596.67
46	114.300	30.00	494.00	492.40	487.40	2879.00	496.29	0.0	496.52	14.54	5.08	880.62	755.03
47	114.400	50.00	0.0	0.0	487.90	1159.00	494.59	0.0	494.77	13.39	4.03	426.29	316.68
48	114.400	50.00	0.0	0.0	487.90	1818.00	495.27	0.0	495.52	18.72	5.06	543.58	428.13
49	114.400	50.00	0.0	0.0	487.90	2101.00	495.68	0.0	495.94	17.74	5.12	626.82	498.82
50	114.400	50.00	0.0	0.0	487.90	2879.00	496.34	0.0	496.65	20.14	5.77	770.72	641.60

115.000	165.00	0.0	0.0	489.70	1801.00	495.62	0.0	495.87	23.70	5.20	648.42	369.99
115.000	165.00	0.0	0.0	489.70	2082.00	496.02	0.0	496.26	21.83	5.23	750.81	445.64
115.000	165.00	0.0	0.0	489.70	2857.00	496.72	0.0	497.00	23.09	5.81	935.24	594.52
116.200	102.00	0.0	0.0	490.70	1147.00	494.95	494.95	496.85	216.46	11.05	103.80	77.96
116.200	102.00	0.0	0.0	490.70	1801.00	496.23	496.23	498.82	214.47	12.92	139.41	122.95
116.200	102.00	0.0	0.0	490.70	2082.00	497.83	497.83	499.47	100.07	10.58	230.09	208.13
116.200	102.00	0.0	0.0	490.70	2857.00	499.52	499.52	499.92	28.58	6.59	772.59	534.68
116.300	36.00	498.50	498.50	490.70	1147.00	494.56	0.0	496.85	214.79	11.02	104.06	78.26
116.300	36.00	498.50	498.50	490.70	1801.00	496.58	0.0	498.83	171.91	12.04	149.59	137.36
116.300	36.00	498.50	498.50	490.70	2082.00	499.24	0.0	499.81	32.90	6.91	438.98	362.97
116.300	36.00	498.50	498.50	490.70	2857.00	500.85	0.0	500.98	9.00	4.09	1246.67	952.12
116.400	50.00	0.0	0.0	491.00	1147.00	497.32	0.0	497.63	28.61	5.25	330.78	214.65
116.400	50.00	0.0	0.0	491.00	1801.00	499.46	0.0	499.59	9.36	3.84	773.53	500.79
116.400	50.00	0.0	0.0	491.00	2082.00	499.90	0.0	500.02	8.94	3.81	887.39	596.12
116.400	50.00	0.0	0.0	491.00	2857.00	500.90	0.0	501.03	8.35	4.11	1180.86	986.96
116.010	100.00	0.0	0.0	491.60	1147.00	497.60	0.0	497.91	26.16	5.23	323.89	216.14
116.010	100.00	0.0	0.0	491.60	1801.00	499.59	0.0	499.70	11.58	4.21	688.75	529.31
116.010	100.00	0.0	0.0	491.60	2082.00	499.96	0.0	500.12	11.22	4.31	786.59	621.85
116.010	100.00	0.0	0.0	491.60	2857.00	500.95	0.0	501.2	10.52	4.55	1047.40	880.82
116.020	100.00	0.0	0.0	492.20	1075.00	497.88	0.0	498.19	26.81	5.12	305.08	221.48
116.020	100.00	0.0	0.0	492.20	1703.00	499.64	0.0	499.82	12.68	4.34	622.28	476.26
116.020	100.00	0.0	0.0	492.20	1976.00	500.06	0.0	500.24	12.22	4.44	714.92	565.30
116.020	100.00	0.0	0.0	492.20	2730.00	501.04	0.0	501.23	11.47	4.70	957.68	806.08
116.030	525.00	0.0	0.0	495.30	887.00	499.63	0.0	499.96	46.82	5.54	244.73	189.63
116.030	525.00	0.0	0.0	495.30	1446.00	500.52	0.0	500.88	41.56	6.08	384.77	284.38
116.030	525.00	0.0	0.0	495.30	1698.00	500.90	0.0	501.25	38.26	6.16	453.43	278.58
116.030	525.00	0.0	0.0	495.30	2395.00	501.81	0.0	502.14	31.86	6.31	644.43	484.18
116.040	148.00	0.0	0.0	496.10	887.00	500.29	0.0	500.70	58.30	6.01	214.25	116.17
116.040	148.00	0.0	0.0	496.10	1446.00	501.06	0.0	501.56	58.62	6.93	322.22	188.86
116.040	148.00	0.0	0.0	496.10	1698.00	501.38	0.0	501.90	57.26	7.19	371.91	224.40
116.040	148.00	0.0	0.0	496.10	2395.00	502.17	0.0	502.70	50.79	7.55	514.27	338.08

TOP OF FORM

SECNO	XLCH	ELTRD	ELIC	ELMIN	0	CWSEL	CRIMS	EG	10K+S	VCH	AREA	0IK
117.000	149.00	0.0	0.0	496.90	887.00	502.08	502.08	503.29	117.16	9.16	120.12	81.94
117.000	149.00	0.0	0.0	496.90	1446.00	503.25	503.25	504.45	93.92	9.81	215.58	147.78
117.000	149.00	0.0	0.0	496.90	1698.00	503.62	503.62	504.82	92.07	10.07	252.35	176.96
117.000	149.00	0.0	0.0	496.90	2395.00	504.26	504.26	505.68	101.77	11.37	319.12	237.41
118.200	104.00	0.0	0.0	497.50	887.00	505.56	505.56	509.01	337.70	14.91	59.48	48.27
118.200	104.00	0.0	0.0	497.50	1446.00	506.50	506.50	507.49	86.07	9.59	192.95	155.66
118.200	104.00	0.0	0.0	497.50	1698.00	506.65	506.65	506.90	28.78	5.62	460.72	316.50
118.200	104.00	0.0	0.0	497.50	2395.00	506.54	506.54	507.07	62.28	6.19	447.60	303.49
118.300	72.00	512.60	507.60	498.60	887.00	507.69	0.0	510.27	224.17	12.88	68.86	59.24
118.300	72.00	512.60	507.60	498.60	1446.00	514.13	0.0	514.15	0.73	1.34	1476.15	1691.78
118.300	72.00	512.60	507.60	498.60	1698.00	514.52	0.0	514.54	0.87	1.49	1552.67	1816.00
118.300	72.00	512.60	507.60	498.60	2395.00	515.28	0.0	515.31	1.34	1.91	1705.93	2072.57
118.400	50.00	0.0	0.0	498.90	887.00	511.04	0.0	511.06	1.17	1.41	887.80	819.33
118.400	50.00	0.0	0.0	498.90	1446.00	514.13	0.0	514.15	0.82	1.40	1418.78	1598.00
118.400	50.00	0.0	0.0	498.90	1698.00	514.52	0.0	514.55	0.98	1.55	1492.85	1719.24
118.400	50.00	0.0	0.0	498.90	2395.00	515.29	0.0	515.32	1.48	1.98	1644.58	1978.32
119.000	674.00	0.0	0.0	502.70	854.00	511.16	0.0	511.18	3.49	1.79	870.61	457.12
119.000	674.00	0.0	0.0	502.70	1396.00	514.21	0.0	514.23	1.89	1.65	1609.98	1016.68
119.000	674.00	0.0	0.0	502.70	1642.00	514.62	0.0	514.64	2.19	1.82	1722.67	1110.70

119.000	674.00	0.0	0.0	502.70	854.00	511.18	0.0	511.18	3.49	1.75	870.81	887.18
119.000	674.00	0.0	0.0	502.70	1396.00	514.21	0.0	514.23	1.89	1.55	1609.98	1016.68
119.000	674.00	0.0	0.0	502.70	1642.00	514.62	0.0	514.64	2.19	1.82	1722.67	1110.70
119.000	674.00	0.0	0.0	502.70	2320.00	515.43	0.0	515.45	3.12	2.28	1958.05	1313.68
120.200	104.00	0.0	0.0	503.80	854.00	511.19	0.0	511.22	4.60	1.87	923.68	398.27
120.200	104.00	0.0	0.0	503.80	1396.00	514.23	0.0	514.24	1.39	1.30	2376.50	1183.42
120.200	104.00	0.0	0.0	503.80	1642.00	514.65	0.0	514.66	1.53	1.40	2621.50	1328.55
120.200	104.00	0.0	0.0	503.80	2320.00	515.47	0.0	515.48	2.00	1.80	3131.76	1648.55
120.300	72.00	510.10	508.80	504.10	854.00	511.37	0.0	511.39	6.15	1.96	881.57	376.34
120.300	72.00	510.10	508.80	504.10	1396.00	514.29	0.0	514.30	1.59	1.32	2246.46	1187.22
120.300	72.00	510.10	508.80	504.10	1642.00	514.70	0.0	514.71	1.74	1.47	2483.32	1266.29
120.300	72.00	510.10	508.80	504.10	2320.00	515.53	0.0	515.55	2.23	1.75	2993.42	1554.73
120.400	50.00	0.0	0.0	504.30	854.00	511.39	0.0	511.43	7.48	2.23	821.82	312.34
120.400	50.00	0.0	0.0	504.30	1396.00	514.30	0.0	514.31	2.31	1.58	2133.19	918.55
120.400	50.00	0.0	0.0	504.30	1642.00	514.71	0.0	514.72	2.52	1.67	2366.31	1048.55
120.400	50.00	0.0	0.0	504.30	2320.00	515.55	0.0	515.56	3.23	2.08	3069.74	1293.85
121.010	657.00	0.0	0.0	506.70	692.00	512.21	0.0	512.28	72.44	3.38	441.02	81.30
121.010	657.00	0.0	0.0	506.70	1163.00	514.52	0.0	514.55	15.84	2.14	1060.89	292.20
121.010	657.00	0.0	0.0	506.70	1385.00	514.95	0.0	514.98	16.14	2.25	1190.21	344.75
121.010	657.00	0.0	0.0	506.70	2000.00	515.85	0.0	515.88	18.41	2.62	1470.72	458.18
121.000	657.00	0.0	0.0	509.70	530.00	515.16	0.0	515.19	39.30	2.16	484.76	80.54
121.000	657.00	0.0	0.0	509.70	930.00	515.77	0.0	515.81	47.70	2.62	676.74	134.86
121.000	657.00	0.0	0.0	509.70	1127.00	515.17	0.0	515.21	42.08	2.60	811.03	123.74
121.000	657.00	0.0	0.0	509.70	1679.00	517.09	0.0	517.13	34.72	2.64	1146.83	284.94

TOP OF FORM

WELCHOR BRANCH 10 YR.

SUMMARY PRINTOUT TABLE 150

SECNO	Q	CWSEL	DIEWSP	DIEWSX	DIEKWS	TOPWID	YICH
109.200	1246.00	455.60	0.0	0.0	0.0	172.26	0.0
109.200	1945.00	456.40	0.80	0.0	0.0	201.95	0.0
109.200	2242.00	456.65	0.25	0.0	0.0	211.23	0.0
109.200	3064.00	457.40	0.75	0.0	0.0	239.06	0.0
109.300	1246.00	460.19	0.0	4.59	0.0	232.80	110.00
109.300	1945.00	461.15	0.97	4.75	0.0	277.22	110.00
109.300	2242.00	461.43	0.28	4.78	0.0	290.13	110.00
109.300	3064.00	462.12	0.68	4.72	0.0	321.62	110.00
109.400	1246.00	460.20	0.0	0.05	0.0	198.28	50.00
109.400	1945.00	461.22	0.98	0.07	0.0	243.45	50.00
109.400	2242.00	461.51	0.29	0.07	0.0	256.73	50.00
109.400	3064.00	462.21	0.70	0.09	0.0	289.12	50.00
109.010	1246.00	460.36	0.0	0.12	0.0	223.54	100.00
109.010	1945.00	461.39	1.03	0.17	0.0	243.40	100.00
109.010	2242.00	461.70	0.31	0.19	0.0	246.32	100.00
109.010	3064.00	462.46	0.76	0.25	0.0	266.50	100.00
109.020	1238.00	460.39	0.0	0.03	0.0	210.34	100.00
109.020	1931.00	461.44	1.05	0.05	0.0	216.63	100.00
109.020	2226.00	461.76	0.32	0.06	0.0	218.54	100.00
109.020	3040.00	462.54	0.78	0.08	0.0	229.65	100.00
109.030	1238.00	460.42	0.0	0.03	0.0	227.61	100.00
109.030	1931.00	461.48	1.06	0.04	0.0	239.28	100.00
109.030	2226.00	461.80	0.32	0.04	0.0	242.87	100.00

109.040	1214.00	460.56	0.0	0.14	0.0	249.70	100.00
109.040	1925.00	461.62	1.05	0.15	0.0	289.01	100.00
109.040	2218.00	461.95	0.33	0.15	0.0	301.32	100.00
109.040	3029.00	462.76	0.81	0.17	0.0	331.26	100.00
109.050	1234.00	461.44	0.0	0.98	0.0	178.09	100.00
109.050	1925.00	462.28	0.81	0.63	0.0	209.88	100.00
109.050	2218.00	462.58	0.32	0.62	0.0	222.01	100.00
109.050	3029.00	463.37	0.79	0.50	0.0	253.02	100.00
110.000	1230.00	477.03	0.0	15.59	0.0	245.20	805.00
110.000	1917.00	477.52	0.49	15.27	0.0	261.25	805.00
110.000	2209.00	477.67	0.16	15.10	0.0	270.54	805.00
110.000	3016.00	478.07	0.40	14.70	0.0	286.07	805.00
111.200	1230.00	477.59	0.0	0.56	0.0	265.46	103.00
111.200	1917.00	478.20	0.60	0.68	0.0	279.77	103.00
111.200	2209.00	478.40	0.21	0.73	0.0	284.58	103.00
111.200	3016.00	478.92	0.52	0.85	0.0	296.17	103.00
111.250	1230.00	477.56	0.0	-0.04	0.0	264.55	1.00
111.250	1917.00	478.09	0.54	-0.10	0.0	277.39	1.00
111.250	2209.00	478.27	0.17	-0.14	0.0	281.47	1.00
111.250	3016.00	478.68	0.41	-0.24	0.0	290.71	1.00

--- T O P - O F - F O R M ---

SECNO	0	CWSEL	DIFWSP	DIFMSX	DIFKWS	TOPWID	XLCH
111.350	1230.00	477.52	0.0	-0.04	0.0	280.79	83.00
111.350	1917.00	478.02	0.61	-0.07	0.0	326.22	83.00
111.350	2209.00	478.18	0.16	-0.08	0.0	329.78	83.00
111.350	3016.00	478.56	0.38	-0.12	0.0	338.78	83.00
111.300	1230.00	477.65	0.0	0.13	0.0	307.51	1.00
111.300	1917.00	478.45	0.81	0.43	0.0	336.11	1.00
111.300	2209.00	478.76	0.31	0.58	0.0	342.85	1.00
111.300	3016.00	479.54	0.78	0.98	0.0	360.40	1.00
111.400	1230.00	477.90	0.0	0.25	0.0	316.13	50.00
111.400	1917.00	478.72	0.82	0.26	0.0	353.69	50.00
111.400	2209.00	479.02	0.30	0.26	0.0	366.29	50.00
111.400	3016.00	479.77	0.75	0.23	0.0	397.81	50.00
111.010	1230.00	478.16	0.0	0.26	0.0	182.44	50.00
111.010	1917.00	478.92	0.76	0.20	0.0	219.83	50.00
111.010	2209.00	479.19	0.27	0.17	0.0	233.19	50.00
111.010	3016.00	479.88	0.69	0.11	0.0	267.07	50.00
111.020	1222.00	478.64	0.0	0.48	0.0	158.94	50.00
111.020	1506.00	479.40	0.75	0.48	0.0	186.19	50.00
111.020	2198.00	479.66	0.26	0.47	0.0	195.60	50.00
111.020	2975.00	480.28	0.63	0.41	0.0	218.01	50.00
111.030	1222.00	479.50	0.0	0.86	0.0	120.16	50.00
111.030	1906.00	480.34	0.84	0.94	0.0	151.92	50.00
111.030	2198.00	480.65	0.31	0.99	0.0	163.54	50.00
111.030	2975.00	481.32	0.67	1.03	0.0	189.13	50.00
112.000	1205.00	485.87	0.0	6.36	0.0	182.52	347.00
112.000	1882.00	486.81	0.95	6.47	0.0	187.99	347.00
112.000	2171.00	487.15	0.34	6.51	0.0	189.99	347.00
112.000	2567.00	487.99	0.81	6.67	0.0	194.83	347.00
113.000	1159.00	490.77	0.0	4.91	0.0	79.27	690.00
113.000	1818.00	491.62	0.85	4.81	0.0	112.93	690.00
113.000	2101.00	491.97	0.31	4.78	0.0	126.87	690.00

113.000	1159.00	490.77	0.0	4.91	0.0	79.27	690.00
113.000	1818.00	491.62	0.85	4.81	0.0	112.93	690.00
113.000	2101.00	491.93	0.31	4.78	0.0	129.23	690.00
113.000	2879.00	492.66	0.73	4.67	0.0	165.86	690.00
114.200	1159.00	491.45	0.0	0.68	0.0	27.00	105.00
114.200	1818.00	492.73	1.28	1.11	0.0	27.00	105.00
114.200	2101.00	493.40	0.67	1.4	0.0	138.97	105.00
114.200	2879.00	493.88	0.27	1.2	0.0	155.44	105.00
114.300	1159.00	493.08	0.0	1.52	0.0	27.00	30.00
114.300	1818.00	495.23	2.20	2.49	0.0	207.55	30.00
114.300	2101.00	495.64	0.42	2.24	0.0	224.87	30.00
114.300	2879.00	496.29	0.65	2.41	0.0	250.48	30.00
114.400	1159.00	494.58	0.0	1.57	0.0	164.52	50.00
114.400	1818.00	495.27	0.67	0.04	0.0	188.95	50.00
114.400	2101.00	495.58	0.42	0.04	0.0	205.79	50.00
114.400	2879.00	496.34	0.66	0.05	0.0	232.54	50.00

--- TOP OF FORM ---

SENO	Q	CHSEL	DIFNSP	DIFWSK	DIFKMS	TOPVIO	XLCH
115.000	1147.00	494.83	0.0	0.23	0.0	243.66	165.00
115.000	1801.00	495.62	0.79	0.35	0.0	253.47	165.00
115.000	2082.00	496.02	0.40	0.33	0.0	268.46	165.00
115.000	2857.00	496.72	0.70	0.38	0.0	267.21	165.00
116.200	1147.00	494.95	0.0	0.12	0.0	27.76	102.00
116.200	1801.00	496.23	1.28	0.61	0.0	28.04	102.00
116.200	2082.00	497.83	1.61	1.82	0.0	103.09	102.00
116.200	2857.00	499.52	1.69	2.80	0.0	324.45	102.00
116.300	1147.00	494.96	0.0	0.01	0.0	27.76	36.00
116.300	1801.00	496.58	1.62	0.36	0.0	28.10	36.00
116.300	2082.00	499.24	2.65	1.40	0.0	161.09	36.00
116.300	2857.00	500.85	1.62	1.33	0.0	386.11	36.00
116.400	1147.00	497.32	0.0	2.36	0.0	158.98	50.00
116.400	1801.00	499.46	2.15	2.89	0.0	253.45	50.00
116.400	2082.00	499.90	0.43	0.66	0.0	272.50	50.00
116.400	2857.00	500.90	1.00	0.04	0.0	316.35	50.00
116.010	1147.00	497.60	0.0	0.28	0.0	149.18	100.00
116.010	1801.00	499.54	1.93	0.07	0.0	226.81	100.00
116.010	2082.00	499.96	0.42	0.07	0.0	243.45	100.00
116.010	2857.00	500.95	0.99	0.06	0.0	283.08	100.00
116.020	1075.00	497.88	0.0	0.28	0.0	147.82	100.00
116.020	1703.00	499.64	1.76	0.10	0.0	212.72	100.00
116.020	1976.00	500.06	0.42	0.10	0.0	228.27	100.00
116.020	2730.00	501.04	0.98	0.09	0.0	264.71	100.00
116.030	887.00	499.63	0.0	1.75	0.0	138.73	525.00
116.030	1446.00	500.52	0.89	0.88	0.0	175.93	525.00
116.030	1698.00	500.90	0.38	0.84	0.0	191.60	525.00
116.030	2395.00	501.81	0.91	0.77	0.0	229.48	525.00
116.040	887.00	500.29	0.0	0.66	0.0	123.68	148.00
116.040	1446.00	501.06	0.78	0.54	0.0	153.87	148.00
116.040	1698.00	501.38	0.31	0.48	0.0	165.93	148.00
116.040	2395.00	502.17	0.79	0.36	0.0	192.34	148.00
117.000	887.00	502.08	0.0	1.80	0.0	64.77	149.00
117.000	1446.00	503.25	1.17	2.19	0.0	56.69	149.00

118.200	887.00	505.56	0.0	3.47	0.0	9.00	186.00
118.200	1446.00	506.50	0.94	3.25	0.0	50.73	104.00
118.200	1698.00	506.65	0.15	3.02	0.0	128.69	104.00
118.200	2395.00	506.54	0.10	2.24	0.0	127.73	104.00
118.200	887.00	507.69	0.0	2.14	0.0	1.00	72.00
118.200	1446.00	514.13	6.84	7.63	0.0	191.03	72.00
118.200	1698.00	514.82	0.39	7.87	0.0	185.08	72.00
118.300	2395.00	515.28	0.76	8.73	0.0	211.42	72.00

---TOP-OF-FORM---

SECNO	Q	CWSEL	DIFWSP	DIFNSX	DIFKMS	TORWID	KLCH
118.400	887.00	511.04	0.0	3.35	0.0	156.93	50.00
118.400	1446.00	514.13	3.09	0.00	0.0	186.15	50.00
118.400	1698.00	514.52	0.39	0.00	0.0	192.59	50.00
118.400	2395.00	515.29	0.76	0.01	0.0	206.17	50.00
119.000	854.00	511.16	0.0	0.12	0.0	211.88	674.00
119.000	1396.00	514.21	3.05	0.08	0.0	272.82	674.00
119.000	1642.00	514.62	0.41	0.09	0.0	281.23	674.00
119.000	2320.00	515.43	0.81	0.14	0.0	301.49	674.00
120.200	854.00	511.19	0.0	0.03	0.0	349.37	104.00
120.200	1396.00	514.23	3.04	0.02	0.0	578.37	104.00
120.200	1642.00	514.65	0.41	0.03	0.0	601.21	104.00
120.200	2320.00	515.47	0.82	0.04	0.0	646.19	104.00
120.300	854.00	511.37	0.0	0.17	0.0	337.92	72.00
120.300	1396.00	514.24	2.92	0.05	0.0	565.87	72.00
120.300	1642.00	514.70	0.41	0.06	0.0	588.43	72.00
120.300	2320.00	515.53	0.83	0.07	0.0	634.31	72.00
120.400	854.00	511.39	0.0	0.03	0.0	321.49	50.00
120.400	1396.00	514.30	2.90	0.01	0.0	554.75	50.00
120.400	1642.00	514.71	0.42	0.01	0.0	577.59	50.00
120.400	2320.00	515.55	0.83	0.01	0.0	623.50	50.00
121.010	692.00	512.21	0.0	0.82	0.0	242.48	657.00
121.010	1163.00	514.57	2.31	0.23	0.0	294.26	657.00
121.010	1385.00	514.95	0.43	0.24	0.0	303.95	657.00
121.010	2000.00	515.85	0.89	0.30	0.0	323.98	657.00
121.000	530.00	515.16	0.0	2.95	0.0	301.22	657.00
121.000	930.00	515.77	0.61	1.25	0.0	331.58	657.00
121.000	1127.00	516.17	0.40	1.22	0.0	351.54	657.00
121.000	1679.00	517.09	0.92	1.25	0.0	373.61	657.00

SUMMARY OF ERRORS

- CAUTION SECNO= 109.300 PROFILE= 1 HYDRAULIC JUMP D.S.
- CAUTION SECNO= 109.300 PROFILE= 2 HYDRAULIC JUMP D.S.
- CAUTION SECNO= 109.300 PROFILE= 3 HYDRAULIC JUMP D.S.
- CAUTION SECNO= 109.300 PROFILE= 4 HYDRAULIC JUMP D.S.
- CAUTION SECNO= 109.050 PROFILE= 1 CRITICAL DEPTH ASSUMED
- CAUTION SECNO= 109.050 PROFILE= 1 MINIMUM SPECIFIC ENERGY
- CAUTION SECNO= 111.350 PROFILE= 3 HYDRAULIC JUMP D.S.
- CAUTION SECNO= 111.030 PROFILE= 1 CRITICAL DEPTH ASSUMED
- CAUTION SECNO= 111.030 PROFILE= 1 MINIMUM SPECIFIC ENERGY



CAUTION SECNO= 111.350 PROFILE= 3 HYDRAULIC JUMP O.S.

CAUTION SECNO= 111.030 PROFILE= 1 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 111.030 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 111.030 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL  
CAUTION SECNO= 111.030 PROFILE= 2 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 111.030 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 111.030 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL  
CAUTION SECNO= 111.030 PROFILE= 3 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 111.030 PROFILE= 3 PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 111.030 PROFILE= 3 20 TRIALS ATTEMPTED TO BALANCE WSEL  
CAUTION SECNO= 111.030 PROFILE= 4 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 111.030 PROFILE= 4 PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 111.030 PROFILE= 4 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 114.200 PROFILE= 2 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 114.200 PROFILE= 2 MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 114.200 PROFILE= 3 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 114.200 PROFILE= 3 PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 114.200 PROFILE= 3 20 TRIALS ATTEMPTED TO BALANCE WSEL  
CAUTION SECNO= 114.200 PROFILE= 4 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 114.200 PROFILE= 4 MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 116.200 PROFILE= 1 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 116.200 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 116.200 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL  
CAUTION SECNO= 116.200 PROFILE= 2 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 116.200 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 116.200 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL  
CAUTION SECNO= 116.200 PROFILE= 3 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 116.200 PROFILE= 3 PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 116.200 PROFILE= 3 20 TRIALS ATTEMPTED TO BALANCE WSEL  
CAUTION SECNO= 116.200 PROFILE= 4 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 116.200 PROFILE= 4 PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 116.200 PROFILE= 4 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 116.300 PROFILE= 2 20 TRIALS OF EG NOT ENOUGH

CAUTION SECNO= 117.000 PROFILE= 1 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 117.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 117.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL  
CAUTION SECNO= 117.000 PROFILE= 2 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 117.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 117.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL  
CAUTION SECNO= 117.000 PROFILE= 3 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 117.000 PROFILE= 3 PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 117.000 PROFILE= 3 20 TRIALS ATTEMPTED TO BALANCE WSEL  
CAUTION SECNO= 117.000 PROFILE= 4 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 117.000 PROFILE= 4 PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 117.000 PROFILE= 4 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 118.200 PROFILE= 1 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 118.200 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 118.200 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL  
CAUTION SECNO= 118.200 PROFILE= 2 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 118.200 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 118.200 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL  
CAUTION SECNO= 118.200 PROFILE= 3 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 118.200 PROFILE= 3 PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 118.200 PROFILE= 3 20 TRIALS ATTEMPTED TO BALANCE WSEL  
CAUTION SECNO= 119.200 PROFILE= 4 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 118.200 PROFILE= 4 PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 118.200 PROFILE= 4 20 TRIALS ATTEMPTED TO BALANCE WSEL

TOP OF FORM

FLOOD HAZARD FACTOR FOR ENTIRE REACH USING SECTIONS

SECTION NUMBER	CUMULATIVE DISTANCE	ELEVATION DIFFERENCE BETWEEN BASE FLOOD AND		
		10'	2'	0.2'
109.200	0	-1.05	-0.25	0.75
109.300	110	-1.25	-0.28	0.68
109.400	160	-1.27	-0.29	0.70
109.010	260	-1.34	-0.31	0.76
109.020	360	-1.37	-0.32	0.78
109.030	460	-1.38	-0.32	0.79
109.040	560	-1.40	-0.33	0.81
109.050	660	-1.14	-0.32	0.79
110.000	1465	-0.64	-0.16	0.40
111.200	1568	-0.81	-0.21	0.52
111.250	1569	-0.71	-0.17	0.41
111.350	1652	-0.66	-0.16	0.38
111.300	1653	-1.11	-0.31	0.78
111.400	1703	-1.12	-0.30	0.75
111.010	1753	-1.03	-0.27	0.69
111.020	1803	-1.01	-0.26	0.63
111.030	1853	-1.14	-0.31	0.67
112.000	2200	-1.29	-0.34	0.83
113.000	2890	-1.16	-0.31	0.73
114.200	2995	-1.95	-0.67	0.47
114.300	3025	-2.62	-0.42	0.60
114.400	3075	-1.09	-0.42	0.65
115.000	3240	-1.19	-0.40	0.70
116.200	3342	-2.88	-1.61	1.69
116.300	3378	-4.28	-2.65	1.62
116.400	3428	-2.58	-0.43	1.00
116.010	3528	-2.36	-0.42	0.99
116.020	3628	-2.18	-0.42	0.98
116.030	4153	-1.27	-0.38	0.91
116.040	4301	-1.09	-0.31	0.79
117.000	4450	-1.54	-0.37	0.64
118.200	4554	-1.09	-0.15	-0.10
118.300	4626	-6.83	-0.39	0.76
118.400	4676	-3.48	-0.39	0.76
119.000	5350	-3.46	-0.41	0.61
120.200	5454	-3.45	-0.41	0.62
120.300	5526	-3.34	-0.41	0.63
120.400	5576	-3.32	-0.42	0.63
121.010	6233	-2.74	-0.43	0.89
121.000	6890	-1.01	-0.40	0.92
WEIGHTED AVG FOR REACH		-1.88	-0.38	0.78

FHF FOR THE REACH = 020 WITH 25.7% OF THE REACH WITHIN 0.5 FEET ZONE FOR THE REACH = A 4

CONTINUOUS FLOOD HAZARD FACTORS BY EVEN INCREMENTS

INC NO	TOTAL LENGTH	AVG ELEVATION	DATA	WTD. AVG.	PERCENT WITHIN
		10'	1'		
1	100	457.68	458.82	-1.14	100%
	110				SEC. 109.300
	160				SEC. 109.400
2	200	460.03	461.28	-1.25	100%

1	100.	457.88	458.07	-1.14	-1.14	010	100.
	110.					SEC.	109.300
	160.					SEC.	109.400
2	200.	460.03	461.29	-1.26	-1.20	010	100.
	260.					SEC.	109.010
3	300.	460.33	461.65	-1.32	-1.24	010	100.
	360.					SEC.	109.020
4	400.	460.39	461.75	-1.36	-1.27	015	100.
1	460.					SEC.	109.030
5	500.	460.44	461.82	-1.38	-1.29	015	100.
6	560.					SEC.	109.040
7	600.	460.69	462.03	-1.34	-1.30	015	100.
8	660.					SEC.	109.050
9	700.	461.56	462.76	-1.20	-1.29	015	100.
10	800.	463.18	464.26	-1.08	-1.26	015	100.
11	900.	465.12	465.14	-1.02	-1.21	010	100.
12	1000.	467.06	468.01	-0.95	-1.20	010	100.
13	1100.	468.99	469.89	-0.90	-1.18	010	100.
14	1200.	470.93	471.77	-0.84	-1.15	010	100.
15	1300.	472.87	473.64	-0.77	-1.12	010	100.
16	1400.	474.81	475.52	-0.71	-1.09	010	100.
17	1465.					SEC.	110.000
18	1500.	476.50	477.19	-0.69	-1.06	010	100.
19	1568.					SEC.	111.200
20	1600.	477.38	478.08	-0.70	-1.04	010	100.
21	1652.					SEC.	111.350
22	1683.					SEC.	111.300
23	1700.	477.71	478.62	-0.91	-1.03	010	100.
24	1743.					SEC.	111.400
25	1753.					SEC.	111.010
26	1800.	478.25	479.31	-1.06	-1.03	010	100.
27	1803.					SEC.	111.020
28	1853.					SEC.	111.030
29	1900.	479.49	480.58	-1.09	-1.04	010	100.
30	2000.	481.28	482.46	-1.18	-1.04	010	100.
31	2100.	483.12	484.34	-1.22	-1.05	010	100.
32	2200.					SEC.	112.000
33	2200.	484.95	486.22	-1.27	-1.06	010	100.
34	2300.	486.22	487.50	-1.28	-1.07	010	100.
35	2400.	486.43	488.19	-1.26	-1.08	010	100.
36	2500.	487.64	488.88	-1.24	-1.09	010	100.
37	2600.	488.35	489.58	-1.23	-1.09	010	100.
38	2700.	489.07	490.27	-1.20	-1.10	010	100.
39	2800.	489.78	490.96	-1.18	-1.10	010	100.
40	2890.					SEC.	113.000
41	2900.	490.48	491.69	-1.21	-1.10	010	100.
42	2995.					SEC.	114.200
=====							
ELEVATION DIFFERENCE							
BETWEEN BASE FLOOD AND							
	10	2	0.2				
=====							
WEIGHTED AVG FOR REACH -1.10 -0.28 0.69							
=====							
FHF FOR REACH 1 = 010 WITH 100% OF THE REACH WITHIN 0.5 FEET							
ZONE FOR THE REACH = A 2							
=====							
30	3000.	491.28	492.92	-1.64	-1.64	015	100.
31	3025.					SEC.	114.300
32	3075.					SEC.	114.400
33	3100.	493.17	494.76	-1.59	-1.61	015	100.
34	3200.	494.70	495.83	-1.13	-1.45	015	100.
35	3240.					SEC.	115.000
36	3300.	494.83	496.51	-1.68	-1.51	015	100.
37	3342.					SEC.	116.200
38	3378.					SEC.	116.300
39	3400.	495.45	498.31	-2.86	-1.78	020	100.
40	3428.					SEC.	116.400

36	3600.	497.66	499.99	-2.33	-2.03	020	100.
	3628.					SEC.	116.020
37	3700.	497.96	500.10	-2.14	-2.04	020	100.
38	3800.	498.29	500.25	-1.96	-2.03	020	100.
39	3900.	498.62	500.41	-1.79	-2.01	020	100.
40	4000.	498.95	500.57	-1.61	-1.97	020	90.
41	4100.	499.29	500.73	-1.44	-1.93	020	90.
	4153.					SEC.	116.030
42	4200.	499.65	500.93	-1.28	-1.88	020	88.
43	4300.	500.06	501.21	-1.15	-1.83	020	86.
	4301.					SEC.	116.040
44	4400.	500.88	502.12	-1.24	-1.79	020	82.
	4450.					SEC.	117.000
45	4500.	502.62	503.97	-1.35	-1.76	020	84.
	4554.					SEC.	118.200

ELEVATION DIFFERENCE  
BETWEEN BASE FLOOD AND

WEIGHTED AVG FOR REACH	10	2	0.2
	-1.76	-0.52	0.88

FOR REACH - 2 = 020 WITH 84% OF THE REACH WITHIN 0.5 FEET  
ZONE FOR THE REACH = A 4

46	4600.	505.34	508.38	-3.04	-3.04	030	98.
	4626.					SEC.	118.300
	4676.					SEC.	118.400
47	4700.	508.98	513.10	-4.12	-3.58	035	98.
48	4800.	511.05	514.53	-3.48	-3.55	035	98.
49	4900.	511.07	514.55	-3.48	-3.53	035	98.
50	5000.	511.09	514.56	-3.47	-3.52	035	98.
51	5100.	511.11	514.58	-3.47	-3.51	035	98.
52	5200.	511.12	514.59	-3.47	-3.50	035	98.
53	5300.	511.14	514.60	-3.46	-3.50	035	98.
	5350.					SEC.	119.000
54	5400.	511.16	514.62	-3.46	-3.49	035	98.
	5454.					SEC.	120.200
55	5500.	511.24	514.66	-3.42	-3.49	035	98.
	5526.					SEC.	120.300
	5576.					SEC.	120.400
56	5600.	511.36	514.70	-3.34	-3.47	035	98.
57	5700.	511.48	514.74	-3.26	-3.46	035	98.
58	5800.	511.61	514.78	-3.17	-3.43	035	98.
59	5900.	511.73	514.81	-3.08	-3.41	035	98.
60	6000.	511.86	514.85	-2.99	-3.38	035	98.
61	6100.	511.98	514.89	-2.91	-3.35	035	98.
62	6200.	512.11	514.92	-2.81	-3.32	035	98.
	6233.					SEC.	121.010
63	6300.	512.34	515.01	-2.67	-3.28	035	98.
64	6400.	512.74	515.17	-2.43	-3.24	030	98.
65	6500.	513.19	515.36	-2.17	-3.18	030	97.
66	6600.	513.64	515.54	-1.90	-3.12	030	97.
67	6700.	514.08	515.73	-1.65	-3.06	030	94.
68	6800.	514.53	515.91	-1.38	-2.98	030	93.
	6890.					SEC.	121.000

ELEVATION DIFFERENCE  
BETWEEN BASE FLOOD AND

WEIGHTED AVG FOR REACH	10	2	0.2
	-2.98	-0.41	0.81

FOR REACH - 3 = 030 WITH 93% OF THE REACH WITHIN 1.0 FEET  
ZONE FOR THE REACH = A 6