

WILSON

CREEK

THIS RUN EXECUTED 15 MAR 85 9:46:13

 HEC2 RELEASE DATED NOV 76 UPDATED MAY 1984
 ERROR CORR - 01,02,03,04,05,06
 MODIFICATION - 50,51,52,53,54,55

C MORGANTON NC MRP NEF = NON EFFECTIVE FLOW
 T1 FPMB FIS MORGANTON NC
 T2 10 YEAR NATURAL
 T3 WILSON CR

J1	ICHECK	INC	NINV	TDIR	STPT	METRIC	HVINS	Q	WSEL	FC
	0.	2.	0.	2.	0.023700	0.00	0.0	0.	999.000	0.000
J2	NPROF	IPL0T	PRFVS	YSCOV	XSECH	FN	ALLOC	IRW	CHNIM	ITRACE
	1.000	0.000	-1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
J3	VARIABLE CODES FOR SUMMARY PRINTOUT									
	38.000	1.000	3.000	41.000	42.000	5.000	0.000	38.000	1.000	13.000
	14.000	15.000	55.000	26.000	56.000	0.000	38.000	1.000	53.000	21.000
	22.000	54.000	4.000	0.000	150.000	201.000	0.000	0.000	0.000	0.000
QT	6.000	005.000	1580.000	1890.000	2055.000	1890.000	1890.000	1890.000	0.000	0.000
NC	0.072	0.077	0.055	0.200	0.400	0.000	0.000	0.000	0.000	0.000
		***	TOPO NEF	LT	SIDE					
X1	1.000	15.000	1641.000	1659.000	0.000	0.000	0.000	0.000	0.000	0.000
GR	1025.000	1000.000	1020.000	1040.000	1015.000	1160.000	1010.000	1180.000	1005.000	1250.000
GR	1000.500	1641.000	997.600	1644.000	997.000	1640.200	997.200	1656.000	1002.500	1659.000
GR	1005.000	1608.000	1010.000	1790.000	1015.000	1865.000	1020.000	1895.000	1025.000	1912.000
X1	5.000	0.000	0.000	0.000	5.000	5.000	5.000	5.000	0.000	0.000
X1	10.000	0.000	0.000	0.000	5.000	5.000	5.000	5.000	0.000	0.000
X1	50.000	0.000	0.000	0.000	40.000	40.000	40.000	40.000	0.000	0.000
X1	150.000	0.000	0.000	0.000	100.000	100.000	100.000	100.000	0.000	0.000
X1	300.000	0.000	0.000	0.000	150.000	150.000	150.000	150.000	0.000	0.000

X1	2600.000	13.000	1334.000	1355.000	170.000	170.000	170.000	0.000	0.000	0.000
GR	1025.000	990.000	1020.000	1060.000	1015.000	1100.000	1010.000	1190.000	1007.000	1334.000
GR	1003.500	1338.000	1033.000	1343.000	1003.600	1348.000	1007.000	1355.000	1010.000	1360.000
GR	1015.000	1390.000	1020.000	1430.000	1025.000	1450.000	0.000	0.000	0.000	0.000
NC	0.100	0.120	0.055	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	2800.000	13.000	1334.000	1355.000	200.000	200.000	200.000	0.000	0.000	0.000
GR	1025.000	1000.000	1020.000	1080.000	1015.000	1160.000	1010.000	1300.000	1000.000	1334.000
GR	1004.500	1338.000	1004.000	1343.000	1004.600	1348.000	1008.300	1355.000	1010.000	1370.000
GR	1015.000	1390.000	1020.000	1420.000	1025.000	1450.000	0.000	0.000	0.000	0.000

*** TOPO SEC NEF LT SIDE

X1	3550.000	14.000	1366.000	1384.000	750.000	750.000	750.000	0.000	0.000	0.000
X4	1.000	1025.000	1050.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
GR	1030.000	930.000	1020.000	1160.000	1015.000	1270.000	1012.600	1315.000	1011.000	1366.000
GR	1007.700	1369.000	1007.300	1374.000	1007.700	1380.000	1011.300	1384.000	1012.500	1395.000
GR	1015.000	1408.000	1020.000	1427.000	1025.000	1445.000	1030.000	1481.000	0.000	0.000

X1	3930.000	12.000	1334.000	1355.000	600.000	350.000	380.000	0.000	0.000	0.000
GR	1030.000	1030.000	1025.000	1290.000	1020.000	1310.000	1013.600	1334.000	1009.100	1330.000
GR	1000.800	1343.000	1009.200	1348.000	1013.900	1355.000	1015.000	1365.000	1020.000	1500.000
GR	1025.000	1570.000	1030.000	1620.000	0.000	0.000	0.000	0.000	0.000	0.000

*** SURVEY SEC MWC 4

X1	4480.000	15.000	1334.000	1355.000	400.000	450.000	550.000	0.000	0.000	0.000
GR	1034.300	1000.000	1032.300	1012.000	1020.500	1100.000	1024.100	1200.000	1017.600	1300.000
GR	1016.000	1334.000	1011.500	1338.000	1011.200	1343.000	1011.600	1348.000	1016.300	1355.000
GR	1015.900	1400.000	1010.000	1461.000	1021.200	1466.000	1021.600	1482.000	1032.800	1515.000

*** TOPO SEC

X1	5500.000	15.000	1282.000	1299.000	000.000	075.000	1020.000	0.000	0.000	0.000
GR	1040.000	1000.000	1015.000	1125.000	1030.000	1180.000	1025.000	1210.000	1022.000	1235.000
GR	1021.000	1258.000	1020.700	1282.000	1016.300	1286.000	1016.100	1291.000	1016.300	1295.000
GR	1020.700	1299.000	1021.000	1308.000	1025.000	1326.000	1030.000	1366.000	1040.000	1404.000

QT	6.000	800.000	1395.000	1675.000	2580.000	1575.000	1675.000	0.000	0.000	0.000
X1	6850.000	15.000	1461.000	1478.000	1305.000	1360.000	1350.000	0.000	0.000	0.000
GR	1045.000	1000.000	1040.000	1060.000	1035.000	1150.000	1031.000	1275.000	1030.000	1305.000
GR	1028.000	1390.000	1026.000	1461.000	1022.700	1465.000	1022.500	1470.000	1022.900	1475.000
GR	1026.800	1478.000	1030.000	1530.000	1035.000	1575.000	1040.000	1610.000	1045.000	1645.000

*** BRIDGE SR 1419

X1	6880.000	0.000	0.000	0.000	20.000	40.000	30.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	1030.000	1030.000	0.000

SB	0.950	1.330	2.500	0.000	15.000	0.010	112.000	0.220	1022.900	1022.900
X1	6900.000	12.000	1460.000	1478.000	20.000	20.000	20.000	0.000	3.000	0.000
X2	0.000	0.000	1.000	1030.000	1030.000	0.000	0.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	1030.000	1032.000	0.000
BT	-12.000	1000.000	1045.000	1045.000	1060.000	1040.000	1040.000	1030.000	1035.000	1035.000
BT	0.000	1305.000	1030.000	1030.000	1390.000	1030.100	1028.500	1460.000	1031.400	1027.500
BT	0.000	1460.000	1031.400	1029.400	1478.000	1032.000	1030.000	1478.000	1032.000	1027.500
BT	0.000	1547.000	1036.000	1032.000	1610.000	1040.000	1040.000	1645.000	1045.000	1045.000

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GR	1045.000	1000.000	1040.000	1260.000	1035.000	1158.000	1030.000	1305.000	1028.500	1390.000
GR	1027.500	1460.000	1022.900	1462.000	1022.900	1476.000	1027.500	1478.000	1030.000	1547.000
GR	1040.000	1610.000	1045.000	1645.000	0.000	0.000	0.000	0.000	0.000	0.000
NC	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	6940.000	17.000	1598.000	1616.000	40.000	40.000	40.000	0.000	0.000	0.000
GR	1050.000	960.000	1045.000	1110.000	1040.000	1170.000	1035.000	1260.000	1030.000	1405.000
GR	1028.800	1586.000	1025.900	1598.000	1022.900	1600.000	1022.500	1605.000	1023.000	1610.000
GR	1028.100	1616.000	1030.000	1650.000	1032.000	1670.000	1035.000	1690.000	1040.000	1730.000
GR	1045.000	1780.000	1050.000	1815.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	7510.000	11.000	1355.000	1373.000	570.000	570.000	570.000	0.000	0.000	0.000
GR	1040.000	1065.000	1035.000	1140.000	1030.000	1240.000	1029.000	1350.000	1024.900	1360.000
GR	1024.700	1365.000	1025.300	1369.000	1030.000	1373.000	1030.000	1460.000	1040.000	1500.000
GR	1045.000	1530.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NC	0.000	0.100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	7690.000	14.000	1355.000	1373.000	180.000	180.000	180.000	0.000	0.000	0.000
GR	1045.000	1000.000	1040.000	1070.000	1035.000	1180.000	1031.000	1320.000	1030.000	1355.000
GR	1026.000	1360.000	1025.500	1365.000	1026.000	1369.000	1030.000	1373.000	1031.000	1470.000
GR	1035.000	1530.000	1040.000	1550.000	1045.000	1570.000	1050.000	1600.000	0.000	0.000
X1	7940.000	15.000	1355.000	1373.000	250.000	250.000	250.000	0.000	0.000	0.000
GR	1050.000	1030.000	1045.000	1080.000	1040.000	1150.000	1035.000	1230.000	1031.000	1340.000
GR	1030.700	1355.000	1026.000	1360.000	1026.600	1365.000	1027.200	1369.000	1031.200	1373.000
GR	1032.000	1400.000	1035.000	1510.000	1040.000	1550.000	1045.000	1580.000	1050.000	1600.000
*** TOPO SEC										
X1	8190.000	12.000	1355.000	1373.000	250.000	250.000	250.000	0.000	0.000	0.000
GR	1050.000	1000.000	1040.000	1140.000	1035.000	1225.000	1032.100	1355.000	1025.200	1360.000
GR	1028.000	1365.000	1028.600	1369.000	1032.600	1373.000	1035.000	1430.000	1040.000	1495.000
GR	1045.000	1512.000	1050.000	1530.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	8530.000	15.000	1436.000	1454.000	285.000	320.000	310.000	0.000	0.000	0.000
GR	1055.000	1200.000	1050.000	1084.000	1045.000	1120.000	1040.000	1194.000	1035.000	1270.000
GR	1033.400	1436.000	1029.600	1441.000	1029.200	1447.000	1029.000	1450.000	1033.600	1454.000
GR	1034.000	1400.000	1040.000	1512.000	1045.000	1529.000	1050.000	1548.000	1055.000	1569.000
NC	0.100	0.120	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
*** SURVEY SEC MWC 7										
X1	9300.000	15.000	1157.000	1175.000	800.000	800.000	800.000	0.000	0.000	0.000
GR	1065.000	1000.000	1060.000	1040.000	1055.000	1054.000	1050.000	1070.000	1039.300	1150.000
GR	1036.300	1157.000	1032.000	1162.000	1032.600	1167.000	1032.900	1171.000	1037.800	1175.000
GR	1038.600	1192.000	1045.000	1205.000	1050.000	1234.000	1055.000	1260.000	1065.000	1312.000
X1	9670.000	9.000	1344.000	1362.000	400.000	200.000	370.000	0.000	0.000	0.000
GR	1050.000	1180.000	1045.000	1220.000	1037.800	1344.000	1034.600	1340.000	1034.300	1354.000
GR	1034.900	1358.000	1040.600	1362.000	1045.000	1385.000	1050.000	1405.000	0.000	0.000

	***	TOPO NEF	LT	SIDE							
X1	10000.0000	15.0000	1344.0000		1362.0000	330.0000	330.0000	330.0000	0.0000	0.0000	0.0000
GR	10650.0000	957.0000	1060.0000		1200.0000	1055.0000	1370.0000	1050.0000	1160.0000	1045.0000	1220.0000
GR	10400.1000	1344.0000	1236.0000		1349.0000	1036.6000	1354.0000	1037.2000	1358.0000	1042.9000	1362.0000
GR	10450.0000	1380.0000	1050.0000		1408.0000	1055.0000	1418.0000	1060.0000	1428.0000	1065.0000	1437.0000

	***	TOPO SEC									
X1	11220.0000	15.0000	1237.0000		1252.0000	1170.0000	1230.0000	1225.0000	0.0000	0.0000	0.0000
GR	10700.0000	1000.0000	1065.0000		1045.0000	1060.0000	1075.0000	1055.0000	1145.0000	1050.0000	1200.0000
GR	10480.0000	1237.0000	1044.0000		1240.0000	1044.1000	1245.0000	1044.0000	1249.0000	1040.0000	1252.0000
GR	10500.0000	1270.0000	1055.0000		1281.0000	1060.0000	1298.0000	1065.0000	1322.0000	1070.0000	1340.0000

QT	6.0000	650.0000	1160.0000		1405.0000	2170.0000	1405.0000	1405.0000	0.0000	0.0000	0.0000
X1	11536.0000	15.0000	1267.0000		1281.0000	315.0000	290.0000	311.0000	0.0000	0.0000	0.0000
GR	10750.0000	1000.0000	1070.0000		1050.0000	1065.0000	1092.0000	1060.0000	1136.0000	1055.0000	1195.0000
GR	10500.0000	1267.0000	1046.0000		1270.0000	1046.0000	1275.0000	1046.9000	1270.0000	1050.0000	1281.0000
GR	10550.0000	1370.0000	1060.0000		1422.0000	1065.0000	1452.0000	1070.0000	1465.0000	1075.0000	1480.0000

	***	BRIDGE	SP	1414							
X1	11576.0000	15.0000	1271.0000		1280.0000	40.0000	40.0000	40.0000	0.0000	0.0000	0.0000
X3	10.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	1051.5000	1051.5000	0.0000
GR	10750.0000	995.0000	1065.0000		1392.0000	1060.0000	1161.0000	1054.7000	1220.0000	1051.1000	1258.0000
GR	10500.7000	1271.0000	1046.7000		1274.0000	1046.7000	1280.0000	1046.7000	1286.0000	1050.7000	1289.0000
GR	10530.6000	1320.0000	1055.0000		1340.0000	1060.0000	1390.0000	1065.0000	1420.0000	1075.0000	1450.0000

S9	0.9500	1.4600	2.5000		0.0000	12.0000	0.0000	68.0000	0.6670	1046.7000	1046.7000
X1	11590.0000	0.0000	0.0000		0.0000	10.0000	19.0000	19.0000	0.0000	0.0000	0.0000
X2	0.0000	0.0000	1.0000		1051.2000	1053.3000	0.0000	0.0000	0.0000	0.0000	0.0000
X3	10.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	1053.3000	1053.2000	0.0000
BT	-9.0000	1161.0000	1060.0000		1060.0000	1220.0000	1354.7000	1054.7000	1253.0000	1053.5000	1051.1000
BT	0.0000	1271.0000	1053.0000		1050.7000	1271.0000	1053.3000	1051.2000	1280.0000	1053.2000	1051.1000
BT	0.0000	1289.0000	1053.2000		1050.7000	1320.0000	1053.6000	1053.6000	1390.0000	1060.0000	1060.0000

X1	11630.0000	0.0000	0.0000		0.0000	35.0000	35.0000	35.0000	0.0000	0.0000	0.0000
NC	0.0700	0.1200	0.0550		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

	***	TOPO SEC									
X1	12050.0000	15.0000	1293.0000		1307.0000	395.0000	422.0000	420.0000	0.0000	0.0000	0.0000
GR	10700.0000	1000.0000	1070.0000		1045.0000	1065.0000	1356.0000	1060.0000	1130.0000	1053.0000	1234.0000
GR	10520.0000	1293.0000	1040.0000		1297.0000	1040.9000	1303.0000	1049.6000	1304.0000	1052.0000	1307.0000
GR	10540.0000	1321.0000	1060.0000		1360.0000	1065.0000	1408.0000	1070.0000	1438.0000	1075.0000	1473.0000

	***	TOPO SEC									
X1	12620.0000	15.0000	1260.0000		1281.0000	580.0000	570.0000	570.0000	0.0000	0.0000	0.0000
GR	10800.0000	1000.0000	1075.0000		1050.0000	1070.0000	1060.0000	1065.0000	1120.0000	1060.0000	1212.0000
GR	10560.5000	1260.0000	1053.0000		1271.0000	1052.9000	1275.0000	1053.6000	1270.0000	1057.0000	1281.0000
GR	10600.0000	1303.0000	1065.0000		1321.0000	1070.0000	1338.0000	1075.0000	1360.0000	1080.0000	1400.0000

THIS RUN EXECUTED 15 MAR 85 9:46:51

 HEC2 RELEASE DATED NOV 76 UPDATED MAY 1984
 ERROR CORR - 01,02,03,04,05,06
 MODIFICATION - 50,51,52,53,54,55

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

WILSON CR
SUMMARY PRINTOUT

SECCO	CWSEL	EG	ELLC	ELMIN	10K*S
1.000	1003.20	1003.34	0.00	997.00	30.15
1.000	1004.09	1004.23	0.00	997.00	29.98
1.000	1004.41	1004.55	0.00	997.00	29.84
1.000	1005.22	1005.37	0.00	997.00	30.29
5.000	1003.22	1003.36	0.00	997.00	29.54
5.000	1004.11	1004.24	0.00	997.00	29.46
5.000	1004.43	1004.56	0.00	997.00	29.35
5.000	1005.23	1005.38	0.00	997.00	29.77
10.000	1003.24	1003.37	0.00	997.00	28.82
10.000	1004.12	1004.26	0.00	997.00	28.87
10.000	1004.44	1004.58	0.00	997.00	28.88
10.000	1005.25	1005.40	0.00	997.00	29.18
50.000	1003.37	1003.43	0.00	997.00	24.71
50.000	1004.25	1004.37	0.00	997.00	25.00
50.000	1004.57	1004.69	0.00	997.00	25.15
50.000	1005.30	1005.51	0.00	997.00	25.37
150.000	1003.61	1003.69	0.00	997.00	17.58
150.000	1004.50	1004.59	0.00	997.00	18.61
150.000	1004.82	1004.91	0.00	997.00	19.01
150.000	1005.63	1005.74	0.00	997.00	19.15
300.000	1003.86	1003.92	0.00	997.00	12.88
300.000	1004.77	1004.84	0.00	997.00	14.17
300.000	1005.09	1005.16	0.00	997.00	14.38
300.000	1005.91	1005.99	0.00	997.00	14.78
880.000	1004.91	1005.15	0.00	998.60	41.22
880.000	1005.07	1006.11	0.00	998.60	40.58
880.000	1006.20	1006.46	0.00	998.60	41.59
880.000	1007.06	1007.40	0.00	998.60	47.89

SECNO	CWSEL	EG	ELLC	ELMIN	10K*S
A 1540.000	1006.78	1006.78	0.00	1000.30	15.57
A 1540.000	1007.82	1007.92	0.00	1000.30	18.78
A 1540.000	1008.21	1008.35	0.00	1000.30	19.02
A 1540.000	1009.39	1009.59	0.00	1000.30	23.07
B 2100.000	1008.02	1008.44	0.00	1001.70	62.10
B 2100.000	1009.29	1009.75	0.00	1001.70	50.68
B 2100.000	1009.76	1010.22	0.00	1001.70	58.36
B 2100.000	1011.24	1011.49	0.00	1001.70	50.72
C 2320.000	1008.88	1008.93	0.00	1002.30	9.28
C 2320.000	1010.15	1010.20	0.00	1002.30	8.81
C 2320.000	1010.61	1010.66	0.00	1002.30	7.76
C 2320.000	1011.85	1011.01	0.00	1002.30	7.94
2370.000	1009.93	1009.98	0.00	1002.40	8.98
2370.000	1010.19	1010.24	0.00	1002.40	7.77
2370.000	1010.65	1010.70	0.00	1002.40	7.56
2370.000	1011.89	1011.95	0.00	1002.40	7.66
2389.000	1009.42	1009.45	1005.90	1002.40	5.29
2389.000	1010.51	1010.55	1005.90	1002.40	5.95
2389.000	1010.95	1010.99	1005.90	1002.40	6.02
2389.000	1012.16	1012.21	1005.90	1002.40	6.46
2430.000	1009.44	1009.47	0.00	1002.30	4.75
2430.000	1010.53	1010.57	0.00	1002.30	5.53
2430.000	1010.97	1011.01	0.00	1002.30	5.68
2430.000	1012.18	1012.24	0.00	1002.30	6.27
D 2600.000	1009.42	1009.21	0.00	1003.00	61.83
D 2600.000	1010.55	1010.01	0.00	1003.00	52.92
D 2600.000	1011.01	1011.34	0.00	1003.00	47.60
D 2600.000	1012.24	1012.56	0.00	1003.00	49.32
E 2800.000	1010.68	1011.20	0.00	1004.00	78.80
E 2800.000	1011.67	1012.59	0.00	1004.00	105.41
E 2800.000	1012.90	1013.94	0.00	1004.00	116.45
E 2800.000	1013.00	1014.33	0.00	1004.00	137.84
F 3550.000	1014.78	1015.02	0.00	1007.30	33.12
F 3550.000	1016.35	1016.61	0.00	1007.30	30.74
F 3550.000	1016.92	1017.18	0.00	1007.30	30.25
F 3550.000	1018.45	1018.74	0.00	1007.30	30.18
G 3930.000	1016.41	1017.01	0.00	1008.80	62.97
G 3930.000	1017.93	1018.72	0.00	1008.80	70.00
G 3930.000	1018.48	1019.32	0.00	1008.80	70.94
G 3930.000	1020.01	1020.92	0.00	1008.80	70.97

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SECNO	CWSEL	EG	ELLC	ELMIN	10K*S
44800.0000	1018.95	1019.13	0.00	1011.20	26.47
44800.0000	1020.54	1020.71	0.00	1011.20	22.46
44800.0000	1021.10	1021.28	0.00	1011.20	21.92
44800.0000	1022.64	1022.83	0.00	1011.20	21.55
55000.0000	1023.05	1023.60	0.00	1016.10	81.33
55000.0000	1024.26	1024.96	0.00	1016.10	92.86
55000.0000	1024.74	1025.49	0.00	1016.10	93.83
55000.0000	1026.16	1026.09	0.00	1016.10	92.23
68500.0000	1029.75	1029.93	0.00	1022.50	28.79
68500.0000	1031.00	1031.15	0.00	1022.50	25.40
68500.0000	1031.44	1031.59	0.00	1022.50	24.74
68500.0000	1032.67	1032.82	0.00	1022.50	22.96
68800.0000	1029.40	1030.40	0.00	1022.50	107.41
68800.0000	1031.07	1031.22	0.00	1022.50	23.61
68800.0000	1031.52	1031.66	0.00	1022.50	23.22
68800.0000	1032.74	1032.88	0.00	1022.50	21.04
69000.0000	1030.20	1030.40	1030.00	1022.90	29.14
69000.0000	1031.60	1031.77	1030.00	1022.90	25.05
69000.0000	1032.04	1032.14	1030.00	1022.90	18.02
69000.0000	1033.12	1033.24	1030.00	1022.90	19.14
69400.0000	1030.29	1030.53	0.00	1022.50	27.08
69400.0000	1031.73	1031.86	0.00	1022.50	15.02
69400.0000	1032.29	1032.22	0.00	1022.50	16.25
69400.0000	1033.18	1033.31	0.00	1022.50	15.33
75100.0000	1031.75	1031.85	0.00	1024.70	19.07
75100.0000	1032.74	1032.84	0.00	1024.70	18.38
75100.0000	1033.11	1033.21	0.00	1024.70	18.45
75100.0000	1034.15	1034.27	0.00	1024.70	18.30
76900.0000	1032.13	1032.38	0.00	1025.50	39.19
76900.0000	1033.11	1033.36	0.00	1025.50	38.24
76900.0000	1033.49	1033.73	0.00	1025.50	37.69
76900.0000	1034.52	1034.76	0.00	1025.50	35.19
79400.0000	1033.17	1033.54	0.00	1026.60	50.26
79400.0000	1034.14	1034.55	0.00	1026.60	54.03
79400.0000	1034.51	1034.92	0.00	1026.60	54.42
79400.0000	1035.48	1035.87	0.00	1026.60	51.03
81900.0000	1034.46	1034.81	0.00	1028.00	51.80
81900.0000	1035.49	1035.77	0.00	1028.00	43.02
81900.0000	1035.85	1036.12	0.00	1028.00	40.95
81900.0000	1036.75	1037.02	0.00	1028.00	40.16

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	SECNO	CWSEL	EG	ELLC	ELMIN	10K*S
	8800.0000	10335.79	10335.03	0.00	1029.20	25.77
	8800.0000	10336.66	10336.82	0.00	1029.20	27.30
Z	8800.0000	10336.99	10337.15	0.00	1029.20	28.18
	8500.0000	1037.88	1038.08	0.00	1029.20	30.19
	9300.0000	1039.28	1040.18	0.00	1032.60	130.02
	9300.0000	1040.38	1042.02	0.00	1032.60	193.00
	9300.0000	1040.78	1042.76	0.00	1032.60	215.39
*	9300.0000	1042.31	1044.73	0.00	1032.60	223.70
	9670.0000	1042.33	1042.54	0.00	1034.30	33.95
	9670.0000	1044.08	1044.49	0.00	1034.30	25.87
P	9670.0000	1045.03	1045.23	0.00	1034.30	25.80
	9670.0000	1046.83	1047.02	0.00	1034.30	21.44
	10000.0000	1043.70	1043.99	0.00	1036.60	55.77
	10000.0000	1045.37	1045.41	0.00	1036.60	41.57
	10000.0000	1046.01	1046.23	0.00	1036.60	35.80
	10000.0000	1047.64	1047.95	0.00	1036.60	29.98
	11225.0000	1051.34	1051.74	0.00	1044.10	73.61
	11225.0000	1052.38	1052.95	0.00	1044.10	94.38
P	11225.0000	1052.68	1053.46	0.00	1044.10	108.39
	11225.0000	1053.67	1054.57	0.00	1044.10	131.47
	11536.0000	1053.33	1053.58	0.00	1046.00	45.54
	11536.0000	1054.74	1055.00	0.00	1046.00	43.93
	11536.0000	1055.25	1055.50	0.00	1046.00	42.46
	11536.0000	1056.55	1056.79	0.00	1046.00	37.94
	11576.0000	1053.49	1053.77	0.00	1046.70	41.50
	11576.0000	1054.87	1055.21	0.00	1046.70	46.48
	11576.0000	1055.36	1055.73	0.00	1046.70	47.88
	11576.0000	1056.62	1057.03	0.00	1046.70	50.50
	11595.0000	1054.29	1054.45	1051.20	1046.70	22.29
	11595.0000	1055.43	1055.67	1051.20	1046.70	31.16
	11595.0000	1056.83	1056.10	1051.20	1046.70	34.84
	11595.0000	1056.97	1057.32	1051.20	1046.70	40.81
	11630.0000	1054.30	1054.53	0.00	1046.70	29.01
	11630.0000	1055.55	1055.78	0.00	1046.70	28.41
S	11630.0000	1055.97	1056.22	0.00	1046.70	31.74
	11630.0000	1057.14	1057.46	0.00	1046.70	37.29
	12050.0000	1055.52	1055.79	0.00	1048.90	43.98
	12050.0000	1056.89	1057.16	0.00	1048.90	39.25
T	12050.0000	1057.38	1057.66	0.00	1048.90	38.30
	12050.0000	1058.67	1058.96	0.00	1048.90	35.50

SECNO	CWSEL	EG	ELLC	ELMIN	10K*S
12620.0000	1059.10	1059.74	0.00	1052.90	111.42
12620.0000	1060.22	1060.97	0.00	1052.90	117.43
U 12620.0000	1060.63	1061.38	0.00	1052.90	114.32
12620.0000	1061.68	1062.46	0.00	1052.90	109.02
13160.0000	1062.73	1062.87	0.00	1056.20	33.86
13160.0000	1063.85	1063.99	0.00	1056.20	30.96
V 13160.0000	1064.24	1064.48	0.00	1056.20	31.35
13160.0000	1065.26	1065.46	0.00	1056.20	31.76
13665.0000	1065.33	1065.95	0.00	1059.60	139.96
W 13665.0000	1066.24	1066.88	0.00	1059.60	136.99
13665.0000	1066.65	1067.28	0.00	1059.60	130.48
13665.0000	1067.61	1068.20	0.00	1059.60	112.85
14360.0000	1072.38	1072.57	0.00	1064.30	38.29
14360.0000	1071.31	1071.52	0.00	1064.30	30.18
X 14360.0000	1071.68	1071.90	0.00	1064.30	40.25
14360.0000	1072.49	1072.75	0.00	1064.30	43.11
15000.0000	1074.03	1074.59	0.00	1068.70	110.09
15000.0000	1074.97	1075.51	0.00	1068.70	104.44
15000.0000	1075.33	1075.83	0.00	1068.70	96.96
15000.0000	1076.13	1076.60	0.00	1068.70	85.20
15570.0000	1078.80	1079.22	0.00	1072.50	61.77
15570.0000	1079.88	1080.43	0.00	1072.50	72.82
15570.0000	1080.24	1080.85	0.00	1072.50	79.59
15570.0000	1081.03	1081.75	0.00	1072.50	92.95
AA 16000.0000	1081.53	1081.98	0.00	1075.50	66.44
16000.0000	1082.47	1083.07	0.00	1075.50	68.83
16000.0000	1083.48	1084.05	0.00	1075.50	67.87
16000.0000	1084.63	1085.24	0.00	1075.50	66.83

WILSON CR
SUMMARY PRINTOUT

SECNO	CWSEL	QLOB	QCH	QROB	VLOB	VCH	VROB
1.0000	1003.20	451.70	408.44	44.86	1.42	4.10	1.42
1.0000	1004.09	969.46	524.16	95.38	1.72	4.61	1.71
1.0000	1004.41	1202.81	567.73	119.45	1.81	4.75	1.80
1.0000	1005.20	2057.71	692.84	204.46	2.13	5.17	2.12
5.0000	1003.22	453.78	406.15	45.06	1.42	4.14	1.41
5.0000	1004.11	962.74	521.65	95.61	1.71	4.58	1.70
5.0000	1004.43	1205.13	565.19	119.68	1.80	4.72	1.79
5.0000	1005.23	2060.98	689.22	204.80	2.12	5.13	2.10
10.0000	1003.24	456.27	403.42	45.31	1.40	4.10	1.40
10.0000	1004.12	965.39	518.74	95.87	1.60	4.54	1.59
10.0000	1004.44	1207.80	562.26	110.95	1.79	4.68	1.78
10.0000	1005.25	2064.74	685.06	205.20	2.11	5.09	2.09
50.0000	1003.37	473.03	384.99	46.98	1.33	3.83	1.32
50.0000	1004.25	983.62	498.70	97.68	1.61	4.28	1.61
50.0000	1004.57	1226.31	541.91	121.78	1.71	4.43	1.70
50.0000	1005.38	2090.16	656.85	207.99	2.03	4.80	2.01
150.0000	1003.61	502.92	352.14	49.94	1.20	3.35	1.19
150.0000	1004.50	1018.70	400.13	101.17	1.46	3.79	1.45
150.0000	1004.82	1262.40	502.23	125.37	1.55	3.95	1.54
150.0000	1005.63	2136.66	604.61	213.73	1.88	4.27	1.83
300.0000	1003.86	529.15	323.30	52.55	1.08	2.95	1.07
300.0000	1004.77	1048.62	427.24	104.14	1.32	3.30	1.32
300.0000	1005.09	1298.05	463.04	128.91	1.42	3.51	1.41
300.0000	1005.91	2174.26	561.42	219.32	1.75	3.83	1.68
800.0000	1004.91	312.52	498.40	94.28	1.75	4.99	1.75
800.0000	1005.87	718.92	644.04	217.03	2.39	5.50	2.37
800.0000	1006.20	907.15	708.28	274.57	2.63	5.75	2.60
800.0000	1007.06	1554.55	925.73	474.72	3.37	6.68	3.30
1540.0000	1006.70	250.93	321.53	332.54	1.69	3.14	1.65
1540.0000	1007.60	473.51	474.22	632.27	2.21	3.88	2.20
1540.0000	1008.21	578.56	539.06	772.38	2.40	4.16	2.40
1540.0000	1009.39	948.48	746.56	1259.96	2.93	4.95	2.97
2100.0000	1008.00	51.40	615.18	238.34	2.17	6.16	2.20
2100.0000	1009.21	120.36	851.72	598.92	2.70	6.93	2.73
2100.0000	1009.76	168.60	940.77	783.63	2.86	7.16	2.89
2100.0000	1011.04	321.94	1147.58	1485.47	3.40	7.44	3.47

SECNO	CWSEL	QLOB	QCH	QROB	VLOB	VCH	VROB
2320.0000	1008.89	497.49	352.92	62.49	1.11	2.50	0.96
2320.0000	1010.15	981.38	451.52	147.10	1.35	2.64	1.13
2320.0000	1010.61	1203.18	493.86	192.95	1.43	2.71	1.21
2320.0000	1011.85	1959.07	637.75	358.18	1.69	3.01	1.48
2370.0000	1008.93	500.30	347.49	64.21	1.10	2.45	0.95
2370.0000	1010.19	992.06	439.67	149.37	1.34	2.60	1.12
2370.0000	1010.65	1212.25	482.12	195.63	1.42	2.68	1.21
2370.0000	1011.89	1968.31	625.35	361.34	1.68	2.98	1.47
2389.0000	1009.42	532.99	298.83	73.18	0.95	1.99	0.81
2389.0000	1010.51	1006.94	413.81	159.25	1.23	2.34	1.04
2389.0000	1010.95	1226.08	458.64	205.28	1.32	2.45	1.13
2389.0000	1012.16	1979.44	604.43	371.13	1.59	2.80	1.40
2430.0000	1009.44	513.91	293.01	98.08	0.91	1.90	0.91
2430.0000	1010.53	983.57	410.39	186.05	1.19	2.27	1.18
2430.0000	1010.97	1204.19	456.94	228.86	1.29	2.39	1.27
2430.0000	1012.18	1968.10	608.03	378.87	1.57	2.76	1.55
2600.0000	1009.42	266.33	630.32	8.35	1.90	5.89	1.71
2600.0000	1010.55	740.67	815.57	23.76	2.48	6.23	2.12
2600.0000	1011.01	986.55	869.97	34.48	2.66	6.20	2.14
2600.0000	1012.24	1616.92	1061.44	76.64	3.11	6.38	2.27
2800.0000	1010.68	111.26	759.66	34.07	1.74	6.81	1.42
2800.0000	1011.67	318.05	1166.29	56.75	2.46	8.82	2.18
2800.0000	1012.00	429.87	1335.24	121.89	2.72	9.60	2.46
2800.0000	1013.00	882.65	1833.96	238.39	3.38	11.46	3.15
3550.0000	1014.78	270.40	560.03	55.77	1.55	4.87	1.24
3550.0000	1016.35	655.70	788.41	155.89	1.93	5.42	1.57
3550.0000	1016.92	939.61	876.95	174.35	2.03	5.63	1.68
3550.0000	1018.45	1498.87	1148.16	307.97	2.33	6.27	1.98
3930.0000	1016.41	21.36	832.88	50.77	1.44	6.48	1.10
3930.0000	1017.93	71.47	1271.35	237.18	2.03	7.02	1.57
3930.0000	1018.48	90.12	1437.79	353.10	2.22	8.35	1.73
3930.0000	1020.01	205.57	1913.46	835.97	2.66	9.37	2.12
4480.0000	1018.95	101.54	561.52	241.94	1.16	4.27	1.10
4480.0000	1020.54	275.51	752.91	551.58	1.42	4.57	1.41
4480.0000	1021.10	364.20	835.24	693.56	1.51	4.73	1.52
4480.0000	1022.64	694.12	1096.26	1164.63	1.76	5.24	1.80
5500.0000	1023.05	187.59	669.47	47.95	2.02	6.83	1.64
5500.0000	1024.26	476.38	981.99	121.63	2.96	8.23	2.23
5500.0000	1024.74	624.24	1105.04	160.72	3.13	8.71	2.41
5500.0000	1026.16	1168.44	1464.89	321.67	3.82	9.70	2.92

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SECNO	CWSEL	QLOB	QCH	OROB	VLOB	VCH	VROB
6850.0000	10320.75	283.58	455.39	61.03	1.22	4.31	0.86
6850.0000	10331.00	355.85	578.83	160.33	1.49	4.56	1.15
6850.0000	10331.44	836.63	629.61	208.76	1.59	4.68	1.25
6850.0000	1032.67	1438.87	771.72	369.40	1.82	4.97	1.45
6880.0000	10229.40	0.00	800.00	0.00	0.00	8.01	0.00
6880.0000	10331.07	665.88	568.21	162.99	1.46	4.43	1.15
6880.0000	10331.52	344.09	619.71	211.20	1.56	4.57	1.22
6880.0000	1032.74	1445.18	763.47	371.35	1.79	4.88	1.43
6900.0000	10330.20	272.52	527.48	0.00	1.16	4.31	0.00
6900.0000	10331.60	727.05	667.95	0.00	1.49	4.53	0.00
6900.0000	10332.04	786.81	617.82	270.37	1.36	3.98	1.13
6900.0000	10333.12	1345.40	775.62	458.98	1.62	4.44	1.38
6940.0000	10330.29	209.74	549.01	41.26	1.07	4.75	0.98
6940.0000	10331.73	679.87	592.68	124.45	1.31	4.17	1.17
6940.0000	10332.09	972.18	643.23	159.59	1.44	4.34	1.27
6940.0000	10333.18	1524.72	770.53	284.75	1.68	4.50	1.50
7510.0000	10331.75	282.36	354.51	163.13	1.16	3.54	1.03
7510.0000	10332.74	594.75	457.29	342.96	1.48	3.88	1.35
7510.0000	10333.11	745.18	502.49	427.33	1.60	4.05	1.47
7510.0000	10334.15	1246.82	632.94	700.24	1.88	4.41	1.77
7690.0000	10332.13	110.24	478.05	210.81	1.38	5.06	1.25
7690.0000	10333.11	292.40	629.76	473.84	1.72	5.60	1.65
7690.0000	10333.49	389.99	687.82	597.19	1.83	5.78	1.78
7690.0000	10334.52	742.14	947.39	990.47	2.07	6.15	2.05
7940.0000	10333.17	170.38	550.76	78.85	1.71	5.77	1.17
7940.0000	10334.14	401.11	756.99	236.90	2.16	6.70	1.55
7940.0000	10334.51	516.97	834.69	323.34	2.30	6.98	1.66
7940.0000	10335.48	922.98	1215.20	641.82	2.68	7.41	1.98
8190.0000	10334.46	184.32	538.10	77.50	1.49	5.77	1.02
8190.0000	10335.49	479.23	665.38	250.39	1.88	5.94	1.38
8190.0000	10335.85	624.19	713.13	337.69	2.04	6.02	1.53
8190.0000	10336.75	1090.87	873.92	615.21	2.47	6.49	1.92
8500.0000	10335.79	339.51	393.15	67.34	1.27	4.14	1.12
8500.0000	10336.66	738.96	522.40	133.64	1.72	4.72	1.43
8500.0000	10336.99	931.03	578.48	165.49	1.89	4.97	1.55
8500.0000	10337.88	1566.04	742.75	271.21	2.33	5.60	1.86
9300.0000	10330.28	21.60	766.70	11.70	0.00	7.00	1.40
9300.0000	1040.38	72.38	1269.72	52.00	0.22	10.74	2.52
9300.0000	1040.78	104.77	1491.81	78.00	0.59	11.89	2.94
9300.0000	1042.31	270.90	2097.81	203.29	0.27	13.72	3.80

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SECNO	CWSEL	QLOB	QCH	QROB	VLOB	VCH	VROB
9670.0000	1042.33	263.20	531.76	5.134	1.49	4.46	0.65
9670.0000	1044.20	619.95	740.77	34.208	1.72	4.80	0.97
9670.0000	1045.03	301.03	819.62	54.355	1.78	4.80	1.06
9670.0000	1046.83	1459.82	1003.44	136.73	2.10	5.01	1.37
10000.0000	1043.70	268.03	529.81	1.36	1.64	5.17	0.50
10000.0000	1045.37	668.09	701.12	25.70	1.90	5.29	0.99
10000.0000	1046.01	878.09	750.10	45.91	2.02	5.20	1.14
10000.0000	1047.64	1530.70	919.94	121.28	2.28	5.30	1.41
11225.0000	1051.34	202.72	543.39	53.89	2.11	6.06	1.54
11225.0000	1052.38	456.37	805.07	133.05	2.92	7.64	2.31
11225.0000	1052.68	577.06	926.47	171.48	3.28	8.43	2.63
11225.0000	1053.67	1013.05	1260.69	306.25	4.10	10.10	3.40
11536.0000	1053.33	111.93	422.71	115.36	1.41	4.90	1.17
11536.0000	1053.74	282.74	505.85	291.41	1.75	5.52	1.46
11536.0000	1053.77	375.77	641.97	387.26	1.89	5.67	1.58
11536.0000	1053.55	687.22	777.71	705.07	2.25	5.92	1.89
11536.0000	1053.49	93.36	515.23	41.41	1.46	4.67	0.99
11536.0000	1054.00	249.90	764.63	145.47	1.97	5.66	1.52
11536.0000	1055.36	337.80	862.92	204.38	2.19	5.99	1.68
11536.0000	1056.62	620.98	1129.96	411.05	2.66	6.79	2.08
11595.0000	1054.29	121.27	463.37	65.36	1.24	3.72	0.94
11595.0000	1055.43	202.47	705.74	171.79	1.79	4.86	1.37
11595.0000	1055.03	366.50	800.21	229.29	2.01	5.31	1.55
11595.0000	1056.97	653.71	1082.33	433.96	2.49	6.26	1.95
11630.0000	1054.38	127.08	458.16	67.87	1.22	3.63	0.92
11630.0000	1055.55	289.46	692.73	177.81	1.74	4.70	1.34
11630.0000	1055.07	374.51	797.37	236.42	1.95	5.13	1.51
11630.0000	1057.14	663.05	1062.75	443.41	2.42	6.05	1.90
12050.0000	1055.56	193.66	398.11	58.23	2.00	5.18	1.36
12050.0000	1056.09	484.33	545.32	130.35	2.35	5.68	1.60
12050.0000	1057.30	634.27	685.32	165.42	2.48	5.87	1.68
12050.0000	1058.67	1131.31	762.23	276.45	2.76	6.30	1.84
12620.0000	1059.10	143.30	485.16	21.54	2.66	7.30	1.34
12620.0000	1060.22	395.73	692.40	71.07	3.59	8.55	1.90
12620.0000	1060.63	541.67	760.97	102.36	3.96	8.81	2.15
12620.0000	1061.68	1019.76	949.82	200.42	4.67	9.49	2.67
13160.0000	1062.73	370.77	274.97	4.26	1.90	3.99	0.70
13160.0000	1063.05	784.09	360.05	15.05	2.33	4.33	1.05
13160.0000	1064.24	983.44	400.96	20.59	2.51	4.53	1.16
13160.0000	1065.26	1621.31	509.08	30.01	2.95	5.00	1.42

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SECNO	CWSEL	QLOB	QCH	QROB	VLOB	VCH	VROB
13665.000	1065.33	137.61	302.18	30.21	2.75	7.36	1.39
13665.000	1066.24	384.15	329.50	30.54	3.65	8.25	2.39
13665.000	1066.65	531.55	584.35	134.10	3.89	8.46	2.30
13665.000	1067.61	968.69	702.39	236.92	4.24	8.71	2.62
14360.000	1070.38	237.72	301.99	20.28	1.71	4.50	1.09
14360.000	1071.31	502.34	403.82	43.84	2.27	5.08	1.35
14360.000	1071.68	740.88	452.07	57.06	2.48	5.36	1.44
14360.000	1072.49	1236.47	568.89	94.64	2.92	6.00	1.65
15000.000	1074.03	114.68	437.31	8.01	1.86	6.72	1.20
15000.000	1074.97	397.14	580.48	23.39	2.49	7.46	1.54
15000.000	1075.33	584.62	634.14	31.23	2.82	7.51	1.61
15000.000	1076.13	1103.09	742.94	53.97	3.43	7.70	1.76
15570.000	1078.80	63.33	400.33	6.34	1.49	5.54	0.92
15570.000	1079.80	236.19	729.09	24.72	2.25	6.83	1.40
15570.000	1080.24	373.95	838.50	37.55	2.56	7.41	1.57
15570.000	1081.03	729.77	1090.09	80.14	3.21	8.63	1.88
16000.000	1081.53	20.38	420.33	19.29	1.45	5.62	1.04
16000.000	1082.94	116.54	642.04	75.62	2.26	6.71	1.43
16000.000	1083.41	182.41	731.71	110.87	2.51	7.04	1.56
16000.000	1084.63	389.70	943.12	217.17	3.03	7.78	1.93

WILSON CR
SUMMARY-PRINTOUT

SECNO	CWSEL	SSTA	STCHL	STCHR	ENDST	TOPWID
1.0000	1003.20	1406.25	1641.00	1659.00	1682.42	276.17
1.0000	1004.09	1329.16	1641.00	1659.00	1690.10	360.94
1.0000	1004.41	1301.41	1641.00	1659.00	1692.87	391.46
1.0000	1005.22	1246.96	1641.00	1659.00	1701.99	455.03
5.0000	1003.22	1404.94	1641.00	1659.00	1682.55	277.61
5.0000	1004.11	1327.86	1641.00	1659.00	1690.23	362.37
5.0000	1004.43	1300.11	1641.00	1659.00	1693.00	392.89
5.0000	1005.23	1246.75	1641.00	1659.00	1702.27	455.52
10.0000	1003.24	1403.36	1641.00	1659.00	1682.70	279.35
10.0000	1004.12	1326.34	1641.00	1659.00	1690.39	364.05
10.0000	1004.44	1298.61	1641.00	1659.00	1693.15	394.54
10.0000	1005.25	1246.50	1641.00	1659.00	1702.60	456.10
50.0000	1003.37	1392.31	1641.00	1659.00	1683.81	291.50
50.0000	1004.25	1315.45	1641.00	1659.00	1691.47	376.02
50.0000	1004.57	1287.80	1641.00	1659.00	1694.23	406.43
50.0000	1005.38	1244.74	1641.00	1659.00	1704.92	460.18
150.0000	1003.61	1370.57	1641.00	1659.00	1685.97	315.40
150.0000	1004.50	1292.40	1641.00	1659.00	1693.77	401.37
150.0000	1004.82	1264.68	1641.00	1659.00	1696.54	431.86
150.0000	1005.63	1240.98	1641.00	1659.00	1709.86	468.88
300.0000	1003.96	1348.94	1641.00	1659.00	1688.14	330.31
300.0000	1004.77	1270.08	1641.00	1659.00	1696.00	425.91
300.0000	1005.09	1248.69	1641.00	1659.00	1699.72	451.03
300.0000	1005.91	1237.26	1641.00	1659.00	1714.74	477.48
800.0000	1004.91	1243.58	1366.00	1384.00	1420.92	177.34
800.0000	1005.87	1234.79	1366.00	1384.00	1425.48	190.69
800.0000	1006.20	1232.80	1366.00	1384.00	1426.80	194.00
800.0000	1007.06	1227.64	1366.00	1384.00	1430.24	202.59
1540.0000	1006.70	1117.50	1174.00	1192.00	1267.18	149.68
1540.0000	1007.80	1110.37	1174.00	1192.00	1273.39	163.02
1540.0000	1008.21	1107.69	1174.00	1192.00	1275.72	168.03
1540.0000	1009.39	1100.06	1174.00	1192.00	1282.36	182.30
2100.0000	1008.02	1305.31	1321.00	1339.00	1410.82	105.51
2100.0000	1009.29	1298.67	1321.00	1339.00	1441.22	142.56
2100.0000	1009.76	1296.23	1321.00	1339.00	1452.37	156.14
2100.0000	1011.04	1290.21	1321.00	1339.00	1469.87	179.66

SECNO	CWSEL	SSTA	STCHL	STCHR	ENDST	TOPWID
2320.0000	1008.88	1296.97	1515.00	1539.00	1582.30	285.33
2320.0000	1010.15	1278.37	1515.00	1539.00	1599.21	322.83
2320.0000	1010.61	1268.75	1515.00	1539.00	1602.54	333.79
2320.0000	1011.85	1248.55	1515.00	1539.00	1610.24	361.69
2370.0000	1008.93	1296.17	1515.00	1539.00	1582.95	286.78
2370.0000	1010.19	1275.55	1515.00	1539.00	1599.88	324.33
2370.0000	1010.65	1267.99	1515.00	1539.00	1602.83	334.81
2370.0000	1011.89	1247.75	1515.00	1539.00	1610.55	362.80
2389.0000	1009.42	1289.25	1515.00	1539.00	1589.46	301.21
2389.0000	1010.11	1278.39	1515.00	1539.00	1601.02	331.53
2389.0000	1010.95	1263.17	1515.00	1539.00	1604.67	341.50
2389.0000	1012.18	1243.32	1515.00	1539.00	1612.23	369.91
2430.0000	1009.44	1287.77	1515.00	1539.00	1581.83	294.87
2430.0000	1010.53	1269.92	1515.00	1539.00	1587.67	317.73
2430.0000	1010.97	1262.71	1515.00	1539.00	1589.87	327.16
2430.0000	1012.18	1242.85	1515.00	1539.00	1595.93	353.08
2600.0000	1009.42	1217.85	1334.00	1355.00	1359.93	141.12
2600.0000	1010.55	1180.93	1334.00	1355.00	1363.33	183.33
2600.0000	1011.81	1171.91	1334.00	1355.00	1366.86	194.25
2600.0000	1012.26	1149.63	1334.00	1355.00	1373.46	223.83
2800.0000	1010.68	1288.79	1334.00	1355.00	1372.74	91.06
2800.0000	1011.67	1253.25	1334.00	1355.00	1376.68	123.43
2800.0000	1012.88	1243.08	1334.00	1355.00	1378.88	134.93
2800.0000	1013.88	1216.14	1334.00	1355.00	1381.98	165.84
3550.0000	1014.78	1281.44	1366.00	1388.00	1406.94	125.39
3550.0000	1016.92	1246.88	1366.00	1388.00	1415.17	187.80
3550.0000	1018.92	1232.64	1366.00	1388.00	1415.38	182.66
3550.0000	1019.45	1196.54	1366.00	1388.00	1421.12	224.58
3930.0000	1016.41	1323.47	1334.00	1355.00	1463.88	79.53
3930.0000	1017.93	1317.76	1334.00	1355.00	1474.89	126.33
3930.0000	1018.48	1315.69	1334.00	1355.00	1459.92	143.33
3930.0000	1020.81	1309.94	1334.00	1355.00	1509.20	190.26
4480.0000	1018.95	1273.18	1334.00	1355.00	1460.88	180.00
4480.0000	1020.54	1254.93	1334.00	1355.00	1464.49	200.66
4480.0000	1021.12	1246.12	1334.00	1355.00	1465.78	219.66
4480.0000	1022.64	1222.41	1334.00	1355.00	1484.89	262.48
5500.0000	1023.95	1226.25	1282.00	1309.00	1317.22	90.97
5500.0000	1024.52	1210.19	1282.00	1309.00	1322.66	108.47
5500.0000	1024.74	1212.12	1282.00	1309.00	1324.66	112.74
5500.0000	1026.18	1203.00	1282.00	1309.00	1335.33	132.34

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SECNO	CWSEL	SSTA	STCHL	STCHR	ENDST	TOPWID
6850.0000	1031.75	1315.45	1461.00	1478.00	1526.00	210.55
6850.0000	1031.00	1275.22	1461.00	1478.00	1539.93	263.72
6850.0000	1031.44	1262.11	1461.00	1478.00	1542.97	280.86
6850.0000	1032.67	1226.14	1461.00	1478.00	1554.03	327.90
6880.0000	1029.40	1461.00	1461.00	1478.00	1478.00	17.00
6880.0000	1031.07	1272.85	1461.00	1478.00	1530.66	266.81
6880.0000	1031.52	1259.89	1461.00	1478.00	1543.65	283.77
6880.0000	1032.74	1224.21	1461.00	1478.00	1554.63	330.42
6900.0000	1030.20	1299.03	1460.00	1478.00	1478.00	178.97
6900.0000	1031.00	1257.05	1460.00	1478.00	1478.00	220.05
6900.0000	1032.04	1245.12	1460.00	1478.00	1559.83	314.71
6900.0000	1033.12	1213.21	1460.00	1478.00	1566.67	353.46
6940.0000	1030.29	1396.90	1598.00	1616.00	1652.79	255.89
6940.0000	1031.73	1354.89	1598.00	1616.00	1667.28	312.39
6940.0000	1032.09	1344.37	1598.00	1616.00	1670.60	326.23
6940.0000	1033.18	1312.36	1598.00	1616.00	1677.96	365.61
7510.0000	1031.75	1205.03	1355.00	1373.00	1466.99	261.96
7510.0000	1032.74	1185.23	1355.00	1373.00	1470.05	285.73
7510.0000	1033.11	1177.77	1355.00	1373.00	1472.45	294.68
7510.0000	1034.15	1156.81	1355.00	1373.00	1476.64	319.83
7690.0000	1032.13	1280.29	1355.00	1373.00	1487.02	206.73
7690.0000	1033.11	1246.03	1355.00	1373.00	1501.70	255.67
7690.0000	1033.49	1232.94	1355.00	1373.00	1507.31	274.37
7690.0000	1034.52	1196.63	1355.00	1373.00	1522.87	326.24
7940.0000	1033.17	1280.31	1355.00	1373.00	1442.02	162.61
7940.0000	1034.14	1253.45	1355.00	1373.00	1470.74	225.29
7940.0000	1034.51	1243.42	1355.00	1373.00	1492.11	248.70
7940.0000	1035.48	1222.23	1355.00	1373.00	1513.89	291.66
8190.0000	1034.46	1249.64	1355.00	1373.00	1455.50	205.86
8190.0000	1035.49	1216.65	1355.00	1373.00	1481.57	264.02
8190.0000	1035.85	1210.52	1355.00	1373.00	1482.73	272.21
8190.0000	1036.75	1195.26	1355.00	1373.00	1485.60	290.34
8500.0000	1035.79	1258.07	1436.00	1454.00	1489.52	231.45
8500.0000	1036.66	1244.00	1436.00	1454.00	1494.17	249.37
8500.0000	1036.99	1239.85	1436.00	1454.00	1495.91	256.07
8500.0000	1037.88	1226.26	1436.00	1454.00	1500.68	274.42
9300.0000	1039.28	1150.05	1157.00	1175.00	1184.44	34.36
9300.0000	1040.38	1141.91	1157.00	1175.00	1188.41	46.50
9300.0000	1040.78	1138.89	1157.00	1175.00	1189.86	50.97
9300.0000	1042.31	1127.52	1157.00	1175.00	1195.32	67.80

SECNO	CWSEL	SSTA	STCHL	STCHR	ENDST	TOPWID
9670.0000	1042.33	1266.83	1344.00	1362.00	1371.03	105.00
9670.0000	1044.28	1232.44	1344.00	1362.00	1381.23	148.79
9670.0000	1045.03	1219.77	1344.00	1362.00	1385.11	165.34
9670.0000	1046.83	1205.34	1344.00	1362.00	1392.33	187.00
10000.0000	1043.70	1252.94	1344.00	1362.00	1368.84	115.90
10000.0000	1045.37	1215.53	1344.00	1362.00	1382.09	166.56
10000.0000	1046.01	1207.79	1344.00	1362.00	1385.70	177.91
10000.0000	1047.64	1188.26	1344.00	1362.00	1394.81	206.56
11225.0000	1051.34	1185.35	1237.00	1252.00	1272.93	87.58
11225.0000	1052.38	1173.84	1237.00	1252.00	1275.23	101.39
11225.0000	1052.68	1173.47	1237.00	1252.00	1275.91	105.43
11225.0000	1053.67	1159.56	1237.00	1252.00	1278.99	118.52
11536.0000	1053.33	1219.11	1267.00	1281.00	1340.20	121.10
11536.0000	1054.74	1198.75	1267.00	1281.00	1365.37	166.02
11536.0000	1055.25	1192.05	1267.00	1281.00	1372.60	180.55
11536.0000	1056.55	1176.74	1267.00	1281.00	1386.09	209.35
11576.0000	1053.49	1232.75	1271.00	1289.00	1318.95	86.10
11576.0000	1054.87	1218.11	1271.00	1289.00	1338.14	120.03
11576.0000	1055.36	1212.62	1271.00	1289.00	1343.63	131.00
11576.0000	1056.62	1198.65	1271.00	1289.00	1356.18	157.54
11595.0000	1054.29	1224.30	1271.00	1289.00	1329.90	105.61
11595.0000	1055.43	1211.88	1271.00	1289.00	1344.29	135.41
11595.0000	1055.83	1207.42	1271.00	1289.00	1348.30	140.89
11595.0000	1056.97	1194.65	1271.00	1289.00	1359.77	165.12
11630.0000	1054.38	1223.39	1271.00	1289.00	1331.12	107.73
11630.0000	1055.35	1210.39	1271.00	1289.00	1345.65	135.25
11630.0000	1055.97	1205.83	1271.00	1289.00	1349.73	143.90
11630.0000	1057.14	1192.91	1271.00	1289.00	1361.33	168.42
12050.0000	1055.52	1228.64	1293.00	1307.00	1339.86	102.22
12050.0000	1056.89	1193.77	1293.00	1307.00	1350.77	141.30
12050.0000	1057.38	1187.53	1293.00	1307.00	1343.00	155.47
12050.0000	1058.67	1159.23	1293.00	1307.00	1351.36	192.13
12620.0000	1059.10	1226.49	1268.00	1281.00	1296.36	69.86
12620.0000	1060.22	1208.10	1268.00	1281.00	1303.76	95.66
12620.0000	1060.63	1203.44	1268.00	1281.00	1305.76	104.82
12620.0000	1261.68	1181.84	1268.00	1281.00	1309.06	128.02
13160.0000	1062.73	1233.66	1355.00	1368.00	1374.71	136.06
13160.0000	1063.85	1217.84	1355.00	1368.00	1376.19	150.34
13160.0000	1064.24	1210.46	1355.00	1368.00	1376.71	166.25
13160.0000	1065.26	1193.68	1355.00	1368.00	1378.07	184.39

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SECNO	CWSEL	SSTA	STCHL	STCHR	ENDST	TOPWID
13665.000	1065.33	1351.60	1401.00	1413.00	1437.61	85.91
13665.000	1066.27	1329.12	1401.00	1413.00	1441.98	112.86
13665.000	1066.65	1318.96	1401.00	1413.00	1443.94	124.98
13665.000	1067.61	1295.19	1401.00	1413.00	1448.54	153.35
14360.000	1070.38	1298.61	1400.00	1413.00	1425.13	126.52
14360.000	1071.31	1269.41	1400.00	1413.00	1430.59	161.18
14360.000	1071.68	1257.78	1400.00	1413.00	1432.77	174.99
14360.000	1072.49	1232.75	1400.00	1413.00	1437.45	204.70
15000.000	1074.03	1319.72	1400.00	1415.00	1422.28	102.57
15000.000	1074.97	1270.82	1400.00	1415.00	1425.99	155.18
15000.000	1075.33	1263.99	1400.00	1415.00	1427.42	163.44
15000.000	1076.13	1251.58	1400.00	1415.00	1430.62	179.05
15570.000	1079.80	1379.94	1430.00	1447.00	1454.29	74.35
15570.000	1079.88	1348.02	1430.00	1447.00	1461.60	113.58
15570.000	1080.24	1337.09	1430.00	1447.00	1466.15	129.06
15570.000	1081.03	1314.04	1430.00	1447.00	1475.73	161.69
16000.000	1081.53	1381.61	1400.00	1415.00	1461.53	51.38
16000.000	1082.94	1364.79	1400.00	1415.00	1462.93	81.14
16000.000	1083.48	1358.23	1400.00	1415.00	1463.48	92.74
16000.000	1084.63	1344.44	1400.00	1415.00	1464.63	117.14

WILSON CR
SUMMARY PRINTOUT TABLE 157

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRWS	EG	10K*S	VCH	AREA	01K
1.0000	0.00	0.00	0.00	997.00	905.00	1003.20	0.00	1003.34	30.15	4.18	446.49	164.82
1.0000	0.00	0.00	0.00	997.00	1580.00	1004.09	0.00	1004.23	29.98	4.61	728.09	288.56
1.0000	0.00	0.00	0.00	997.00	1890.00	1004.41	0.00	1004.55	29.84	4.75	849.26	345.99
1.0000	0.00	0.00	0.00	997.00	2955.00	1005.22	0.00	1005.37	30.29	5.17	1195.60	536.92
5.0000	5.00	0.00	0.00	997.00	905.00	1003.22	0.00	1003.36	29.54	4.14	450.66	166.52
5.0000	5.00	0.00	0.00	997.00	1580.00	1004.11	0.00	1004.24	29.46	4.58	734.51	291.09
5.0000	5.00	0.00	0.00	997.00	1890.00	1004.43	0.00	1004.56	29.35	4.72	855.11	348.85
5.0000	5.00	0.00	0.00	997.00	2955.00	1005.23	0.00	1005.38	29.77	5.13	1202.49	541.57
10.0000	5.00	0.00	0.00	997.00	905.00	1003.24	0.00	1003.37	28.82	4.10	455.73	168.58
10.0000	5.00	0.00	0.00	997.00	1580.00	1004.12	0.00	1004.26	28.87	4.54	740.89	294.88
10.0000	5.00	0.00	0.00	997.00	1890.00	1004.44	0.00	1004.58	28.80	4.68	861.93	352.29
10.0000	5.00	0.00	0.00	997.00	2955.00	1005.25	0.00	1005.40	29.18	5.09	1210.54	547.02
50.0000	40.00	0.00	0.00	997.00	905.00	1003.37	0.00	1003.48	24.31	3.83	492.01	183.56
50.0000	40.00	0.00	0.00	997.00	1580.00	1004.25	0.00	1004.37	25.00	4.28	787.23	310.89
50.0000	40.00	0.00	0.00	997.00	1890.00	1004.57	0.00	1004.69	25.15	4.43	911.74	376.85
50.0000	40.00	0.00	0.00	997.00	2955.00	1005.38	0.00	1005.51	25.37	4.80	1268.35	586.64
150.0000	100.00	0.00	0.00	997.00	905.00	1003.61	0.00	1003.69	17.58	3.35	567.02	215.87
150.0000	100.00	0.00	0.00	997.00	1580.00	1004.50	0.00	1004.59	18.61	3.79	890.37	366.22
150.0000	100.00	0.00	0.00	997.00	1890.00	1004.82	0.00	1004.91	19.01	3.95	1023.29	433.53
150.0000	100.00	0.00	0.00	997.00	2955.00	1005.63	0.00	1005.74	19.15	4.27	1393.11	675.28
300.0000	150.00	0.00	0.00	997.00	905.00	1003.86	0.00	1003.92	12.88	2.95	649.82	252.15
300.0000	150.00	0.00	0.00	997.00	1580.00	1004.77	0.00	1004.84	14.17	3.30	806.00	319.79
300.0000	150.00	0.00	0.00	997.00	1890.00	1005.09	0.00	1005.16	14.30	3.51	1130.66	499.71
300.0000	150.00	0.00	0.00	997.00	2955.00	1005.91	0.00	1005.99	14.78	3.83	1518.59	768.53
880.0000	580.00	0.00	0.00	998.60	905.00	1004.91	0.00	1005.15	41.22	4.99	332.18	140.95
880.0000	580.00	0.00	0.00	998.60	1580.00	1005.87	0.00	1006.11	40.58	5.50	509.43	248.04
880.0000	580.00	0.00	0.00	998.60	1890.00	1006.20	0.00	1006.46	41.59	5.75	573.10	293.06
880.0000	580.00	0.00	0.00	998.60	2955.00	1007.06	0.00	1007.40	47.89	6.68	743.51	427.02
1540.0000	660.00	0.00	0.00	1000.30	905.00	1006.70	0.00	1006.78	15.57	3.14	451.73	229.34
1540.0000	660.00	0.00	0.00	1000.30	1580.00	1007.80	0.00	1007.92	18.78	3.88	623.87	364.63
1540.0000	660.00	0.00	0.00	1000.30	1890.00	1008.21	0.00	1008.35	19.92	4.16	692.24	423.42
1540.0000	660.00	0.00	0.00	1000.30	2955.00	1009.39	0.00	1009.59	23.07	4.95	898.43	615.23
2100.0000	560.00	0.00	0.00	1001.70	905.00	1008.02	0.00	1008.44	62.10	6.16	231.96	114.84
2100.0000	560.00	0.00	0.00	1001.70	1580.00	1009.29	0.00	1009.75	59.68	6.93	390.39	204.52
2100.0000	560.00	0.00	0.00	1001.70	1890.00	1009.76	0.00	1010.22	58.36	7.16	469.38	247.99
2100.0000	560.00	0.00	0.00	1001.70	2955.00	1011.04	0.00	1011.49	50.72	7.44	676.53	414.94

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRWS	EG	10K*S	VCH	AREA	.01K
23300.0000	2200.0000	0.0000	0.0000	1002.30	905.00	1008.88	0.00	1008.03	9.28	2.50	648.93	297.02
23300.0000	2200.0000	0.0000	0.0000	1002.30	1580.00	1010.15	0.00	1010.20	8.81	2.64	1031.11	558.37
23300.0000	2200.0000	0.0000	0.0000	1002.30	1890.00	1010.61	0.00	1010.66	7.76	2.71	1183.68	678.34
23300.0000	2200.0000	0.0000	0.0000	1002.30	2955.00	1011.05	0.00	1011.91	7.84	3.01	1612.18	1055.04
23700.0000	50.0000	0.0000	0.0000	1002.40	905.00	1008.93	0.00	1008.98	8.98	2.45	659.42	302.02
23700.0000	50.0000	0.0000	0.0000	1002.40	1580.00	1010.19	0.00	1010.24	7.77	2.60	1043.76	566.82
23700.0000	50.0000	0.0000	0.0000	1002.40	1890.00	1010.65	0.00	1010.70	7.56	2.68	1195.80	687.31
23700.0000	50.0000	0.0000	0.0000	1002.40	2955.00	1011.89	0.00	1011.95	7.66	2.98	1626.51	1067.98
23890.0000	19.0000	1007.80	1005.90	1002.40	905.00	1009.42	0.00	1009.45	5.29	1.99	801.48	393.36
23890.0000	19.0000	1007.80	1005.90	1002.40	1580.00	1010.51	0.00	1010.55	5.95	2.34	1147.09	677.83
23890.0000	19.0000	1007.80	1005.90	1002.40	1890.00	1010.95	0.00	1010.99	6.02	2.45	1295.26	770.32
23890.0000	19.0000	1007.80	1005.90	1002.40	2955.00	1012.16	0.00	1012.21	6.46	2.80	1725.23	1162.40
24300.0000	41.0000	0.0000	0.0000	1002.30	905.00	1009.44	0.00	1009.47	4.75	1.90	829.92	415.40
24300.0000	41.0000	0.0000	0.0000	1002.30	1580.00	1010.53	0.00	1010.57	5.53	2.27	1163.01	671.76
24300.0000	41.0000	0.0000	0.0000	1002.30	1890.00	1010.97	0.00	1011.01	5.68	2.39	1304.90	793.35
24300.0000	41.0000	0.0000	0.0000	1002.30	2955.00	1012.18	0.00	1012.24	6.27	2.76	1716.99	1180.19
26000.0000	170.0000	0.0000	0.0000	1003.00	905.00	1009.42	0.00	1009.81	61.83	5.89	252.39	115.09
26000.0000	170.0000	0.0000	0.0000	1003.00	1580.00	1010.55	0.00	1010.91	52.92	6.23	440.77	217.10
26000.0000	170.0000	0.0000	0.0000	1003.00	1890.00	1011.01	0.00	1011.34	47.60	6.20	526.71	273.93
26000.0000	170.0000	0.0000	0.0000	1003.00	2955.00	1012.24	0.00	1012.56	40.32	6.38	784.29	465.39
28000.0000	200.0000	0.0000	0.0000	1004.00	905.00	1010.68	0.00	1011.29	78.80	6.81	199.41	101.95
28000.0000	200.0000	0.0000	0.0000	1004.00	1580.00	1011.67	0.00	1012.59	195.41	8.82	305.32	153.89
28000.0000	200.0000	0.0000	0.0000	1004.00	1890.00	1012.00	0.00	1013.94	116.45	9.60	347.97	175.15
28000.0000	200.0000	0.0000	0.0000	1004.00	2955.00	1013.00	0.00	1014.33	137.84	11.46	497.03	251.70
35500.0000	750.0000	0.0000	0.0000	1007.30	905.00	1014.78	0.00	1015.02	33.12	4.07	342.77	157.26
35500.0000	750.0000	0.0000	0.0000	1007.30	1580.00	1016.35	0.00	1016.61	30.74	5.42	572.19	284.96
35500.0000	750.0000	0.0000	0.0000	1007.30	1890.00	1016.02	0.00	1017.18	39.25	5.63	671.76	343.66
35500.0000	750.0000	0.0000	0.0000	1007.30	2955.00	1018.45	0.00	1018.74	30.18	6.27	983.26	537.90
39300.0000	380.0000	0.0000	0.0000	1008.80	905.00	1016.41	0.00	1017.01	62.97	6.48	189.66	114.04
39300.0000	380.0000	0.0000	0.0000	1008.80	1580.00	1017.93	0.00	1018.72	70.00	7.92	346.31	188.85
39300.0000	380.0000	0.0000	0.0000	1008.80	1890.00	1018.48	0.00	1019.32	70.04	8.35	420.83	224.40
39300.0000	380.0000	0.0000	0.0000	1008.80	2955.00	1020.01	0.00	1020.92	70.97	9.37	676.51	350.77
44800.0000	550.0000	0.0000	0.0000	1011.20	905.00	1018.95	0.00	1019.13	26.47	4.27	439.02	175.92
44800.0000	550.0000	0.0000	0.0000	1011.20	1580.00	1020.54	0.00	1020.71	22.46	4.57	728.79	333.39
44800.0000	550.0000	0.0000	0.0000	1011.20	1890.00	1021.10	0.00	1021.28	21.92	4.73	870.24	403.71
44800.0000	550.0000	0.0000	0.0000	1011.20	2955.00	1022.64	0.00	1022.83	21.55	5.24	1248.81	636.48
55000.0000	1020.0000	0.0000	0.0000	1016.10	905.00	1023.05	0.00	1023.60	81.33	6.83	220.33	100.35
55000.0000	1020.0000	0.0000	0.0000	1016.10	1580.00	1024.26	0.00	1024.96	92.06	8.28	350.33	163.97
55000.0000	1020.0000	0.0000	0.0000	1016.10	1890.00	1024.74	0.00	1025.49	93.83	8.71	393.08	195.12
55000.0000	1020.0000	0.0000	0.0000	1016.10	2955.00	1026.16	0.00	1026.99	92.23	9.70	567.04	307.69

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRWS	EG	10K*S	VCH	AREA	.BTX
6850.0000	1350.0000	0.0000	0.0000	1022.50	800.0000	1029.75	0.00	1029.03	28.79	4.31	409.19	169.09
6850.0000	1350.0000	0.0000	0.0000	1022.50	1395.0000	1031.00	0.00	1031.15	25.40	4.56	705.34	276.81
6850.0000	1350.0000	0.0000	0.0000	1022.50	1675.0000	1031.44	0.00	1031.59	24.74	4.68	827.70	336.75
6850.0000	1350.0000	0.0000	0.0000	1022.50	2580.0000	1032.67	0.00	1032.82	22.96	4.97	1201.65	538.46
6880.0000	300.0000	0.0000	0.0000	1022.50	800.0000	1029.40	0.00	1030.40	107.41	8.01	90.92	77.19
6880.0000	300.0000	0.0000	0.0000	1022.50	1395.0000	1031.07	0.00	1031.22	23.61	4.43	726.75	287.09
6880.0000	300.0000	0.0000	0.0000	1022.50	1675.0000	1031.52	0.00	1031.66	23.22	4.57	848.78	347.64
6880.0000	300.0000	0.0000	0.0000	1022.50	2580.0000	1032.74	0.00	1032.88	21.94	4.88	1223.31	558.83
6900.0000	200.0000	1030.0000	1030.0000	1022.90	800.0000	1030.20	0.00	1030.40	29.14	4.31	358.12	148.20
6900.0000	200.0000	1030.0000	1030.0000	1022.90	1395.0000	1031.60	0.00	1031.77	25.05	4.53	636.86	278.73
6900.0000	200.0000	1030.0000	1030.0000	1022.90	1675.0000	1032.04	0.00	1032.21	19.82	3.98	975.86	394.54
6900.0000	200.0000	1030.0000	1030.0000	1022.90	2580.0000	1033.12	0.00	1033.24	19.14	4.44	1338.16	589.79
6940.0000	400.0000	0.0000	0.0000	1022.50	800.0000	1030.29	0.00	1030.53	27.08	4.75	353.28	153.73
6940.0000	400.0000	0.0000	0.0000	1022.50	1395.0000	1031.73	0.00	1031.86	15.92	4.17	764.92	349.63
6940.0000	400.0000	0.0000	0.0000	1022.50	1675.0000	1032.09	0.00	1032.22	16.25	4.34	880.75	415.55
6940.0000	400.0000	0.0000	0.0000	1022.50	2580.0000	1033.18	0.00	1033.31	15.33	4.58	1262.66	658.93
7510.0000	570.0000	0.0000	0.0000	1024.70	800.0000	1031.75	0.00	1031.85	19.07	3.54	501.48	183.19
7510.0000	570.0000	0.0000	0.0000	1024.70	1395.0000	1032.74	0.00	1032.87	19.38	3.88	772.64	325.39
7510.0000	570.0000	0.0000	0.0000	1024.70	1675.0000	1033.11	0.00	1033.21	18.45	4.03	880.92	389.94
7510.0000	570.0000	0.0000	0.0000	1024.70	2580.0000	1034.15	0.00	1034.27	19.38	4.41	1202.98	603.06
7690.0000	180.0000	0.0000	0.0000	1025.50	800.0000	1032.13	0.00	1032.38	39.19	5.06	342.62	127.79
7690.0000	180.0000	0.0000	0.0000	1025.50	1395.0000	1033.11	0.00	1033.36	38.24	5.60	568.91	225.59
7690.0000	180.0000	0.0000	0.0000	1025.50	1675.0000	1033.49	0.00	1033.73	37.69	5.78	668.02	272.84
7690.0000	180.0000	0.0000	0.0000	1025.50	2580.0000	1034.52	0.00	1034.76	35.19	6.15	979.59	434.92
7940.0000	250.0000	0.0000	0.0000	1026.60	800.0000	1033.17	0.00	1033.54	50.26	5.77	262.53	112.84
7940.0000	250.0000	0.0000	0.0000	1026.60	1395.0000	1034.14	0.00	1034.55	54.03	6.70	452.00	189.78
7940.0000	250.0000	0.0000	0.0000	1026.60	1675.0000	1034.51	0.00	1034.92	54.42	6.98	538.44	227.06
7940.0000	250.0000	0.0000	0.0000	1026.60	2580.0000	1035.48	0.00	1035.87	51.03	7.41	806.25	361.17
8190.0000	250.0000	0.0000	0.0000	1028.00	800.0000	1034.46	0.00	1034.81	51.80	5.77	293.40	111.15
8190.0000	250.0000	0.0000	0.0000	1028.00	1395.0000	1035.49	0.00	1035.77	43.02	5.94	547.66	212.68
8190.0000	250.0000	0.0000	0.0000	1028.00	1675.0000	1035.85	0.00	1036.12	40.95	6.02	644.63	261.76
8190.0000	250.0000	0.0000	0.0000	1028.00	2580.0000	1036.75	0.00	1037.02	40.16	6.49	897.04	407.11
8500.0000	310.0000	0.0000	0.0000	1029.20	800.0000	1035.79	0.00	1035.93	25.77	4.14	422.76	157.60
8500.0000	310.0000	0.0000	0.0000	1029.20	1395.0000	1036.66	0.00	1036.82	27.38	4.72	632.61	266.97
8500.0000	310.0000	0.0000	0.0000	1029.20	1675.0000	1036.99	0.00	1037.15	28.18	4.97	715.07	315.54
8500.0000	310.0000	0.0000	0.0000	1029.20	2580.0000	1037.88	0.00	1038.08	30.19	5.60	952.07	469.58
9300.0000	800.0000	0.0000	0.0000	1032.60	800.0000	1039.28	0.00	1040.18	130.02	7.80	117.06	70.16
9300.0000	800.0000	0.0000	0.0000	1032.60	1395.0000	1040.39	1039.81	1042.02	193.00	10.74	161.68	100.41
9300.0000	800.0000	0.0000	0.0000	1032.60	1675.0000	1040.78	1040.53	1042.76	218.39	11.89	181.35	113.35
9300.0000	800.0000	0.0000	0.0000	1032.60	2580.0000	1042.31	1042.31	1044.73	253.70	13.72	271.67	172.50

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRWS	EG	10K*S	VCH	AREA	.01K
9670.000	370.00	0.00	0.00	1034.30	800.00	1042.33	0.00	1042.54	33.95	4.46	303.54	137.29
9670.000	370.00	0.00	0.00	1034.30	1395.00	1044.28	0.00	1044.49	27.87	4.80	551.06	264.23
9670.000	370.00	0.00	0.00	1034.30	1675.00	1045.03	0.00	1045.23	25.80	4.88	669.06	329.78
9670.000	370.00	0.00	0.00	1034.30	2580.00	1046.83	0.00	1047.02	21.44	5.01	986.96	557.17
10000.000	330.00	0.00	0.00	1036.60	800.00	1043.70	0.00	1043.09	55.77	5.17	269.09	107.12
10000.000	330.00	0.00	0.00	1036.60	1395.00	1045.37	0.00	1045.61	41.37	5.29	509.49	216.88
10000.000	330.00	0.00	0.00	1036.60	1675.00	1046.01	0.00	1046.23	35.80	5.20	620.60	279.94
10000.000	330.00	0.00	0.00	1036.60	2580.00	1047.64	0.00	1047.85	29.08	5.30	933.46	478.47
11225.000	1225.00	0.00	0.00	1044.10	800.00	1051.34	0.00	1051.74	73.61	6.06	220.59	93.24
11225.000	1225.00	0.00	0.00	1044.10	1395.00	1052.38	0.00	1052.05	94.38	7.64	319.42	143.59
11225.000	1225.00	0.00	0.00	1044.10	1675.00	1052.69	0.00	1053.36	108.39	8.43	351.12	160.88
11225.000	1225.00	0.00	0.00	1044.10	2580.00	1053.67	0.00	1054.57	131.47	10.10	462.15	225.01
11536.000	311.00	0.00	0.00	1046.00	650.00	1053.33	0.00	1053.58	45.54	4.90	264.36	96.32
11536.000	311.00	0.00	0.00	1046.00	1160.00	1054.74	0.00	1055.00	43.93	5.52	467.74	175.01
11536.000	311.00	0.00	0.00	1046.00	1405.00	1055.25	0.00	1055.50	42.46	5.67	556.62	215.63
11536.000	311.00	0.00	0.00	1046.00	2170.00	1056.55	0.00	1056.79	37.04	5.92	809.57	352.31
11576.000	40.00	0.00	0.00	1046.70	650.00	1053.49	0.00	1053.77	41.50	4.67	215.86	100.91
11576.000	40.00	0.00	0.00	1046.70	1160.00	1054.87	0.00	1055.21	46.48	5.66	357.50	170.14
11576.000	40.00	0.00	0.00	1046.70	1405.00	1055.36	0.00	1055.73	47.88	5.99	419.47	203.05
11576.000	40.00	0.00	0.00	1046.70	2170.00	1056.62	0.00	1057.03	50.50	6.79	600.62	305.37
11595.000	19.00	1053.30	1051.20	1046.70	650.00	1054.29	0.00	1054.45	22.29	3.72	292.46	137.69
11595.000	19.00	1053.30	1051.20	1046.70	1160.00	1055.43	0.00	1055.67	31.16	4.06	428.24	207.81
11595.000	19.00	1053.30	1051.20	1046.70	1405.00	1055.83	0.00	1056.10	34.84	5.31	483.05	238.02
11595.000	19.00	1053.30	1051.20	1046.70	2170.00	1056.97	0.00	1057.32	40.81	6.26	658.48	339.67
11630.000	35.00	0.00	0.00	1046.70	650.00	1054.38	0.00	1054.53	20.91	3.63	301.50	142.13
11630.000	35.00	0.00	0.00	1046.70	1160.00	1055.55	0.00	1055.78	28.41	4.70	446.30	217.62
11630.000	35.00	0.00	0.00	1046.70	1405.00	1055.97	0.00	1056.22	31.74	5.13	503.34	240.40
11630.000	35.00	0.00	0.00	1046.70	2170.00	1057.14	0.00	1057.40	37.29	6.05	684.56	355.37
12050.000	420.00	0.00	0.00	1048.90	650.00	1055.52	0.00	1055.79	43.98	5.18	216.38	98.02
12050.000	420.00	0.00	0.00	1048.90	1160.00	1056.89	0.00	1057.16	39.25	5.68	383.34	185.16
12050.000	420.00	0.00	0.00	1048.90	1405.00	1057.38	0.00	1057.66	38.30	5.87	457.14	227.03
12050.000	420.00	0.00	0.00	1048.90	2170.00	1058.67	0.00	1058.96	35.50	6.30	680.69	364.20
12620.000	570.00	0.00	0.00	1052.90	650.00	1059.10	0.00	1059.74	111.42	7.30	136.39	61.58
12620.000	570.00	0.00	0.00	1052.90	1160.00	1060.22	0.00	1060.97	117.43	8.55	220.01	107.05
12620.000	570.00	0.00	0.00	1052.90	1405.00	1060.63	0.00	1061.38	114.32	8.81	270.75	131.40
12620.000	570.00	0.00	0.00	1052.90	2170.00	1061.68	0.00	1062.46	109.02	9.49	393.52	207.83
13160.000	540.00	0.00	0.00	1056.20	650.00	1062.73	0.00	1062.87	33.86	3.99	270.64	111.70
13160.000	540.00	0.00	0.00	1056.20	1160.00	1063.85	0.00	1063.99	30.96	4.33	434.05	208.47
13160.000	540.00	0.00	0.00	1056.20	1405.00	1064.24	0.00	1064.40	31.35	4.53	497.93	250.94
13160.000	540.00	0.00	0.00	1056.20	2170.00	1065.26	0.00	1065.46	31.76	5.00	678.45	305.06

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRWS	EG	10K*S	VCH	AREA	.01K
13665.000	505.00	0.00	0.00	1059.60	560.00	1065.33	0.00	1065.95	139.96	7.36	125.02	47.34
13665.000	505.00	0.00	0.00	1059.60	1010.00	1066.24	0.00	1066.88	136.09	8.25	215.50	86.29
13665.000	505.00	0.00	0.00	1059.60	1250.00	1066.65	0.00	1067.28	130.48	8.46	264.18	109.43
13665.000	505.00	0.00	0.00	1059.60	1900.00	1067.61	0.00	1068.20	112.85	8.71	397.57	178.86
14360.000	695.00	0.00	0.00	1064.30	560.00	1070.38	0.00	1070.57	38.29	4.50	224.40	90.50
14360.000	695.00	0.00	0.00	1064.30	1010.00	1071.31	0.00	1071.52	39.18	5.08	350.89	161.36
14360.000	695.00	0.00	0.00	1064.30	1250.00	1071.68	0.00	1071.90	40.25	5.36	422.98	197.03
14360.000	695.00	0.00	0.00	1064.30	1900.00	1072.49	0.00	1072.75	43.11	6.00	576.23	289.38
15000.000	640.00	0.00	0.00	1068.70	560.00	1074.03	0.00	1074.59	110.09	6.72	133.21	53.37
15000.000	640.00	0.00	0.00	1068.70	1010.00	1074.97	0.00	1075.51	104.44	7.46	253.47	98.83
15000.000	640.00	0.00	0.00	1068.70	1250.00	1075.33	0.00	1075.83	96.96	7.51	311.06	126.95
15000.000	640.00	0.00	0.00	1068.70	1900.00	1076.13	0.00	1076.60	85.20	7.70	449.03	205.84
15570.000	570.00	0.00	0.00	1072.50	560.00	1078.80	0.00	1079.22	61.77	5.54	137.76	71.25
15570.000	570.00	0.00	0.00	1072.50	1010.00	1079.88	0.00	1080.43	72.82	6.83	238.17	118.36
15570.000	570.00	0.00	0.00	1072.50	1250.00	1080.24	0.00	1080.85	79.59	7.41	283.04	140.11
15570.000	570.00	0.00	0.00	1072.50	1900.00	1081.03	0.00	1081.75	92.95	8.63	396.46	197.07
16000.000	430.00	0.00	0.00	1075.50	460.00	1081.53	0.00	1081.98	66.44	5.62	107.52	56.43
16000.000	430.00	0.00	0.00	1075.50	1135.00	1082.94	0.00	1083.49	68.05	6.71	200.39	101.22
16000.000	430.00	0.00	0.00	1075.50	1425.00	1083.48	0.00	1084.05	67.07	7.04	247.88	125.16
16000.000	430.00	0.00	0.00	1075.50	1550.00	1084.63	0.00	1085.24	66.83	7.78	368.49	189.61

WILSON CR

SUMMARY PRINTOUT TABLE 157

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
1.0000	905.00	1003.20	0.00	0.00	4.20	276.17	0.00
1.0000	1580.00	1004.09	0.89	0.00	5.09	360.94	0.00
1.0000	1890.00	1004.41	0.32	0.00	5.41	391.46	0.00
1.0000	2955.00	1005.22	0.81	0.00	6.22	455.03	0.00
5.0000	905.00	1003.22	0.00	0.02	0.00	277.61	5.00
5.0000	1580.00	1004.11	0.99	0.02	0.00	362.37	5.00
5.0000	1890.00	1004.43	0.32	0.02	0.00	392.89	5.00
5.0000	2955.00	1005.23	0.81	0.02	0.00	455.52	5.00
10.0000	905.00	1003.24	0.00	0.02	0.00	279.35	5.00
10.0000	1580.00	1004.12	0.89	0.02	0.00	364.05	5.00
10.0000	1890.00	1004.44	0.32	0.02	0.00	394.54	5.00
10.0000	2955.00	1005.25	0.81	0.02	0.00	456.10	5.00
50.0000	905.00	1003.37	0.00	0.13	0.00	291.50	40.00
50.0000	1580.00	1004.25	0.88	0.13	0.00	376.02	40.00
50.0000	1890.00	1004.57	0.32	0.13	0.00	406.43	40.00
50.0000	2955.00	1005.38	0.81	0.13	0.00	460.18	40.00
150.0000	905.00	1003.61	0.00	0.24	0.00	315.40	100.00
150.0000	1580.00	1004.50	0.89	0.25	0.00	401.37	100.00
150.0000	1890.00	1004.82	0.32	0.25	0.00	431.86	100.00
150.0000	2955.00	1005.63	0.81	0.25	0.00	468.88	100.00
300.0000	905.00	1003.86	0.00	0.25	0.00	339.31	150.00
300.0000	1580.00	1004.77	0.91	0.27	0.00	425.91	150.00
300.0000	1890.00	1005.09	0.32	0.27	0.00	451.03	150.00
300.0000	2955.00	1005.91	0.82	0.28	0.00	477.48	150.00
880.0000	905.00	1004.91	0.00	1.05	0.00	177.34	580.00
880.0000	1580.00	1005.87	0.95	1.10	0.00	190.69	580.00
880.0000	1890.00	1006.20	0.33	1.11	0.00	194.00	580.00
880.0000	2955.00	1007.06	0.86	1.15	0.00	202.59	580.00
1540.0000	905.00	1006.70	0.00	1.70	0.00	149.68	660.00
1540.0000	1530.00	1007.80	1.10	1.93	0.00	163.02	660.00
1540.0000	1890.00	1008.21	0.41	2.01	0.00	168.03	660.00
1540.0000	2955.00	1009.39	1.18	2.33	0.00	182.30	660.00
2100.0000	905.00	1008.02	0.00	1.32	0.00	105.51	560.00
2100.0000	1580.00	1009.29	1.28	1.49	0.00	142.56	560.00
2100.0000	1890.00	1009.76	0.47	1.55	0.00	156.14	560.00
2100.0000	2955.00	1011.04	1.28	1.65	0.00	179.66	560.00

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
2320.0000	15885.000	1008.88	0.00	0.87	0.00	285.33	220.00
2320.0000	15885.000	1010.15	1.26	0.86	0.00	322.85	220.00
2320.0000	1890.000	1010.61	0.46	0.85	0.00	335.79	220.00
2320.0000	2955.000	1011.35	1.21	0.81	0.00	361.69	220.00
2370.0000	905.000	1008.93	0.00	0.85	0.00	286.78	50.00
2370.0000	15885.000	1010.19	1.26	0.84	0.00	324.33	50.00
2370.0000	1890.000	1010.65	0.46	0.84	0.00	334.84	50.00
2370.0000	2955.000	1011.89	1.23	0.84	0.00	362.80	50.00
2389.0000	905.000	1009.42	0.00	0.48	0.00	301.21	19.00
2389.0000	15885.000	1010.51	1.09	0.32	0.00	331.53	19.00
2389.0000	1890.000	1010.65	0.44	0.29	0.00	341.50	19.00
2389.0000	2955.000	1012.16	1.21	0.27	0.00	368.91	19.00
2430.0000	905.000	1009.44	0.00	0.32	0.00	294.07	41.00
2430.0000	15885.000	1010.51	1.09	0.33	0.00	317.75	41.00
2430.0000	1890.000	1010.97	0.44	0.33	0.00	327.16	41.00
2430.0000	2955.000	1012.18	1.21	0.33	0.00	353.08	41.00
2600.0000	905.000	1009.42	0.00	0.32	0.00	141.19	170.00
2600.0000	15885.000	1010.55	1.14	0.32	0.00	183.33	170.00
2600.0000	1890.000	1011.91	0.46	0.34	0.00	194.25	170.00
2600.0000	2955.000	1012.24	1.23	0.36	0.00	223.83	170.00
2800.0000	905.000	1010.68	0.00	1.26	0.00	91.96	200.00
2800.0000	15885.000	1011.67	0.99	1.12	0.00	133.43	200.00
2800.0000	1890.000	1012.00	0.33	0.99	0.00	134.03	200.00
2800.0000	2955.000	1013.00	0.99	0.75	0.00	165.04	200.00
3550.0000	905.000	1014.78	0.00	4.10	0.00	125.39	750.00
3550.0000	15885.000	1016.23	1.50	4.68	0.00	167.06	750.00
3550.0000	1890.000	1016.90	0.57	4.02	0.00	182.66	750.00
3550.0000	2955.000	1018.45	1.53	3.46	0.00	224.58	750.00
3930.0000	905.000	1016.41	0.00	1.63	0.00	79.53	380.00
3930.0000	15885.000	1017.93	1.52	1.58	0.00	126.33	380.00
3930.0000	1890.000	1018.68	0.55	1.56	0.00	143.33	380.00
3930.0000	2955.000	1020.31	1.53	1.56	0.00	190.26	380.00
4480.0000	905.000	1018.95	0.00	2.54	0.00	180.93	550.00
4480.0000	15885.000	1020.54	1.59	2.61	0.00	209.66	550.00
4480.0000	1890.000	1021.13	0.57	2.62	0.00	219.66	550.00
4480.0000	2955.000	1022.64	1.54	2.63	0.00	262.48	550.00
5500.0000	905.000	1023.25	0.00	4.10	0.00	90.97	1020.00
5500.0000	15885.000	1024.26	1.21	3.70	0.00	106.47	1020.00
5500.0000	1890.000	1024.74	0.49	3.64	0.00	112.74	1020.00
5500.0000	2955.000	1026.16	1.42	3.52	0.00	132.34	1020.00

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SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
6850.0000	800.00	1029.75	0.00	6.70	0.00	210.55	1350.00
6850.0000	1395.00	1031.00	1.24	6.74	0.00	263.72	1350.00
6850.0000	1675.00	1031.44	0.45	6.70	0.00	280.00	1350.00
6850.0000	2580.00	1032.67	1.23	6.51	0.00	327.90	1350.00
6880.0000	800.00	1029.40	0.00	-0.35	0.00	17.00	30.00
6880.0000	1395.00	1031.07	1.67	0.08	0.00	266.81	30.00
6880.0000	1675.00	1031.52	0.44	0.07	0.00	283.77	30.00
6880.0000	2580.00	1032.74	1.22	0.07	0.00	330.42	30.00
6900.0000	800.00	1030.20	0.00	0.80	0.00	178.97	20.00
6900.0000	1395.00	1031.60	1.40	0.53	0.00	220.05	20.00
6900.0000	1675.00	1032.04	0.44	0.52	0.00	314.71	20.00
6900.0000	2580.00	1033.12	1.09	0.39	0.00	353.46	20.00
6940.0000	800.00	1030.29	0.00	0.08	0.00	255.89	40.00
6940.0000	1395.00	1031.73	1.44	0.13	0.00	312.39	40.00
6940.0000	1675.00	1032.09	0.36	0.05	0.00	320.25	40.00
6940.0000	2580.00	1033.18	1.09	0.06	0.00	365.61	40.00
7510.0000	800.00	1031.75	0.00	1.46	0.00	261.96	570.00
7510.0000	1395.00	1032.74	0.99	1.01	0.00	285.73	570.00
7510.0000	1675.00	1033.11	0.37	1.02	0.00	294.68	570.00
7510.0000	2580.00	1034.15	1.04	0.97	0.00	319.83	570.00
7690.0000	800.00	1032.13	0.00	0.30	0.00	206.73	180.00
7690.0000	1395.00	1033.11	0.90	0.37	0.00	255.67	180.00
7690.0000	1675.00	1033.49	0.37	0.38	0.00	274.37	180.00
7690.0000	2580.00	1034.52	1.04	0.37	0.00	326.24	180.00
7940.0000	800.00	1033.17	0.00	1.03	0.00	162.61	250.00
7940.0000	1395.00	1034.14	0.98	1.03	0.00	325.29	250.00
7940.0000	1675.00	1034.51	0.36	1.02	0.00	248.70	250.00
7940.0000	2580.00	1035.48	0.97	0.96	0.00	291.66	250.00
8190.0000	800.00	1034.46	0.00	1.29	0.00	205.86	250.00
8190.0000	1395.00	1035.49	1.03	1.34	0.00	264.92	250.00
8190.0000	1675.00	1035.85	0.36	1.34	0.00	272.71	250.00
8190.0000	2580.00	1036.75	0.90	1.27	0.00	290.34	250.00
8500.0000	800.00	1035.79	0.00	1.33	0.00	231.45	310.00
8500.0000	1395.00	1036.66	0.87	1.17	0.00	240.37	310.00
8500.0000	1675.00	1036.99	0.33	1.13	0.00	256.07	310.00
8500.0000	2580.00	1037.08	0.89	1.13	0.00	274.42	310.00
9300.0000	800.00	1039.28	0.00	3.49	0.00	34.38	800.00
9300.0000	1395.00	1040.78	1.11	3.72	0.00	46.50	800.00
9300.0000	1675.00	1040.78	0.40	3.80	0.00	50.97	800.00
9300.0000	2580.00	1042.31	1.52	4.43	0.00	67.80	800.00

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
9670.000	800.00	1042.33	0.00	3.05	0.00	105.00	370.00
9670.000	1395.00	1044.28	1.95	3.90	0.00	148.79	370.00
9670.000	1675.00	1045.83	0.75	4.24	0.00	165.34	370.00
9670.000	2580.00	1046.83	1.81	4.53	0.00	187.30	370.00
10000.000	800.00	1043.70	0.00	1.37	0.00	115.90	330.00
10000.000	1395.00	1045.37	1.67	1.99	0.00	166.56	330.00
10000.000	1675.00	1046.01	0.65	0.99	0.00	177.91	330.00
10000.000	2580.00	1047.64	1.63	0.81	0.00	206.56	330.00
11225.000	800.00	1051.34	0.00	7.64	0.00	187.58	1225.00
11225.000	1395.00	1052.38	1.04	7.01	0.00	101.39	1225.00
11225.000	1675.00	1052.68	0.30	6.66	0.00	105.43	1225.00
11225.000	2580.00	1053.67	1.00	6.63	0.00	118.52	1225.00
11536.000	650.00	1053.33	0.00	2.00	0.00	121.10	311.00
11536.000	1160.00	1054.74	1.41	2.36	0.00	166.62	311.00
11536.000	1405.00	1055.25	0.51	2.57	0.00	180.55	311.00
11536.000	2170.00	1056.55	1.30	2.88	0.00	209.35	311.00
11576.000	650.00	1053.49	0.00	0.16	0.00	86.10	40.00
11576.000	1160.00	1054.87	1.38	0.13	0.00	120.03	40.00
11576.000	1405.00	1055.36	0.49	0.11	0.00	131.00	40.00
11576.000	2170.00	1056.62	1.25	0.07	0.00	157.54	40.00
11595.000	650.00	1054.29	0.00	0.00	0.00	105.61	19.00
11595.000	1160.00	1055.43	1.14	0.56	0.00	132.41	19.00
11595.000	1405.00	1055.83	0.40	0.47	0.00	140.89	19.00
11595.000	2170.00	1056.97	1.15	0.36	0.00	165.12	19.00
11630.000	650.00	1054.78	0.00	0.09	0.00	107.73	35.00
11630.000	1160.00	1055.55	1.18	0.13	0.00	135.25	35.00
11630.000	1405.00	1055.97	0.42	0.14	0.00	143.90	35.00
11630.000	2170.00	1057.14	1.17	0.17	0.00	168.42	35.00
12050.000	650.00	1055.52	0.00	1.14	0.00	102.22	420.00
12050.000	1160.00	1056.39	1.37	1.33	0.00	141.30	420.00
12050.000	1405.00	1057.38	0.50	1.41	0.00	155.47	420.00
12050.000	2170.00	1058.67	1.29	1.53	0.00	192.13	420.00
12620.000	650.00	1059.10	0.00	3.58	0.00	60.86	570.00
12620.000	1160.00	1060.20	1.13	3.35	0.00	95.66	570.00
12620.000	1405.00	1060.63	0.41	3.25	0.00	104.82	570.00
12620.000	2170.00	1061.68	1.05	3.01	0.00	128.92	570.00
13160.000	650.00	1062.73	0.00	0.64	0.00	136.06	540.00
13160.000	1160.00	1063.25	1.12	0.73	0.00	150.34	540.00
13160.000	1405.00	1064.24	0.39	0.61	0.00	166.25	540.00
13160.000	2170.00	1065.26	1.02	0.58	0.00	184.39	540.00

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SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
13665.0000	560.00	1065.33	0.00	2.60	0.00	85.91	505.00
13665.0000	1010.00	1066.24	0.02	2.40	0.00	112.86	505.00
13665.0000	1250.00	1066.65	0.41	2.41	0.00	124.98	505.00
13665.0000	1900.00	1067.61	0.95	2.34	0.00	153.35	505.00
14360.0000	560.00	1070.38	0.00	5.25	0.00	126.52	695.00
14360.0000	1010.00	1071.31	0.03	5.07	0.00	161.18	695.00
14360.0000	1250.00	1071.68	0.37	5.03	0.00	174.99	695.00
14360.0000	1900.00	1072.49	0.81	4.88	0.00	204.70	695.00
15000.0000	560.00	1074.03	0.00	3.66	0.00	102.57	640.00
15000.0000	1010.00	1074.97	0.93	3.66	0.00	155.18	640.00
15000.0000	1250.00	1075.33	0.36	3.64	0.00	163.44	640.00
15000.0000	1900.00	1076.13	0.81	3.64	0.00	179.85	640.00
15570.0000	560.00	1078.80	0.00	4.76	0.00	74.35	570.00
15570.0000	1010.00	1079.68	0.89	4.92	0.00	113.58	570.00
15570.0000	1250.00	1080.24	0.36	4.92	0.00	129.86	570.00
15570.0000	1900.00	1081.73	0.78	4.89	0.00	161.69	570.00
16000.0000	460.00	1081.53	0.00	2.74	0.00	51.38	430.00
16000.0000	835.00	1082.94	1.41	3.06	0.00	81.14	430.00
16000.0000	1025.00	1083.48	0.54	3.24	0.00	92.74	430.00
16000.0000	1550.00	1084.63	1.15	3.60	0.00	117.14	430.00

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FLOOD INSURANCE ZONE DATA FOR WILSON CR

FLOOD HAZARD FACTOR FOR ENTIRE REACH USING SECTIONS

SECTION NUMBER	CUMULATIVE DISTANCE	ELEVATION DIFFERENCE		
		BETWEEN BASE FLOOD AND		
		10	2	0.2
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THIS RUN EXECUTED 20 MAR 85 9:11:15

 HEC2 RELEASE DATED NOV 76 UPDATED MAY 1984
 ERROR CORR - 01,22,33,34,35,36
 MODIFICATION - 50,51,52,53,54,55

C MORGANTON NC MDP NEF = NON-EFFECTIVE FLOW
 T1 FPMO FIG MORGANTON NC
 T2 100 YEAR NATURAL
 T3 WILSON CR

J1	ICHECK	ING	NIWV	IDIR	STPT	METRIC	HVINS	Q	WSEL	FQ
J2	NPROF	IPLDT	DEEVS	YSFCM	YSECH	FN	ALLDC	IPW	CHNIM	TTRACE
J3	VARIABLE CODES FOR SUMMARY PRINTOUT									
QT	6.220	225.137	1700.000	1000.000	2035.700	1397.000	1892.000	1.000	0.000	0.000
NC	0.070	0.070	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	0.110	0.000	0.000	1530.000	1670.000
X1	1.000	15.210	1441.000	1452.000	2.000	0.000	0.000	0.000	0.000	0.000
GR	1025.000	1000.000	1220.000	1247.000	1015.000	1160.000	1010.000	1180.000	1005.000	1250.000
GR	1025.500	1641.000	297.000	1647.000	027.000	1640.000	097.000	1656.000	1000.500	1650.000
GR	1005.000	1600.000	1717.000	1700.000	1715.000	1865.000	1020.000	1095.000	1025.000	1012.000
ET	0.000	0.000	0.000	0.000	0.000	0.110	0.000	0.000	1530.000	1670.000
X1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	0.110	0.000	0.000	1530.000	1670.000
X1	10.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	0.110	0.000	0.000	1530.000	1670.000
X1	50.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	0.110	0.000	0.000	1530.000	1670.000
X1	150.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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ET	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1390.000	1550.000
X1	2430.000	16.000	1515.000	1530.000	41.000	41.000	41.000	41.000	0.000	0.000	0.000
GR	1025.000	950.000	1010.000	1100.000	1014.000	1200.000	1008.700	1000.000	1300.000	1004.400	1400.000
GR	1006.000	1515.000	1002.000	1510.000	1002.000	1523.000	1002.300	1530.000	1002.500	1022.500	1534.000
GR	1004.000	1537.000	1000.000	1530.000	1000.000	1505.000	1010.000	1585.000	1020.000	1020.000	1635.000
GR	1025.000	1645.000	1000.000	1500.000	1000.000	1500.000	1000.000	1500.000	1000.000	1000.000	1500.000
ET	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1260.000	1360.000
X1	2600.000	130.000	1334.000	1355.000	170.000	170.000	170.000	170.000	0.000	0.000	0.000
GR	1025.000	200.000	1020.000	1320.000	1115.000	1100.000	1010.000	1100.000	1027.000	1027.000	1334.000
GR	1003.500	1330.000	1000.000	1320.000	1000.000	1340.000	1007.000	1355.000	1010.000	1010.000	1360.000
GR	1015.000	1390.000	1020.000	1430.000	1025.000	1450.000	1000.000	1450.000	1000.000	1000.000	1450.000
ET	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1270.000	1370.000
X1	2000.000	13.000	1334.000	1355.000	200.000	200.000	200.000	200.000	0.000	0.000	0.000
GR	1025.000	1700.000	1020.000	1000.000	1015.000	1160.000	1010.000	1300.000	1008.000	1008.000	1334.000
GR	1004.000	1530.000	1000.000	1340.000	1004.000	1340.000	1000.000	1355.000	1010.000	1010.000	1370.000
GR	1015.000	1300.000	1000.000	1420.000	1025.000	1450.000	1000.000	1450.000	1000.000	1000.000	1450.000
ET	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1200.000	1390.000
X1	3550.000	14.000	1334.000	1355.000	750.000	750.000	750.000	750.000	0.000	0.000	0.000
X4	1.000	0.000	1000.000	1000.000	1000.000	1000.000	1000.000	1000.000	1000.000	1000.000	1000.000
GR	1030.000	0.000	1020.000	1140.000	1015.000	1270.000	1012.500	1315.000	1011.500	1011.500	1366.000
GR	1007.000	1350.000	1000.000	1370.000	1007.000	1380.000	1011.300	1384.000	1012.500	1012.500	1395.000
GR	1015.000	1400.000	1020.000	1427.000	1025.000	1445.000	1030.000	1481.000	1000.000	1000.000	1481.000
ET	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1320.000	1400.000
X1	3030.000	13.000	1334.000	1355.000	300.000	300.000	300.000	300.000	0.000	0.000	0.000
GR	1030.000	1000.000	1020.000	1290.000	1020.000	1310.000	1013.000	1334.000	1000.100	1000.100	1330.000
GR	1000.000	1340.000	1000.000	1340.000	1010.000	1350.000	1015.000	1365.000	1020.000	1020.000	1500.000
GR	1025.000	1500.000	1000.000	1420.000	1000.000	1420.000	1000.000	1420.000	1000.000	1000.000	1500.000
ET	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1290.000	1400.000
X1	4480.000	15.000	1334.000	1355.000	400.000	450.000	550.000	0.000	0.000	0.000	0.000
GR	1034.000	1000.000	1030.000	1010.000	1020.500	1100.000	1024.100	1200.000	1017.000	1017.000	1300.000
GR	1016.000	1330.000	1011.000	1330.000	1011.000	1340.000	1011.000	1340.000	1015.000	1015.000	1355.000
GR	1015.000	1400.000	1010.000	1461.000	1021.000	1460.000	1021.000	1482.000	1030.000	1030.000	1513.000
ET	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1250.000	1310.000
X1	5500.000	13.000	1334.000	1355.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
GR	1040.000	1000.000	1020.000	1120.000	1030.000	1100.000	1020.000	1210.000	1020.000	1020.000	1235.000
GR	1021.000	1000.000	1000.000	1000.000	1010.000	1200.000	1016.100	1291.000	1015.000	1015.000	1295.000
GR	1020.000	1200.000	1020.000	1300.000	1025.000	1320.000	1030.000	1360.000	1040.000	1040.000	1400.000

ET	0.000	0.000	0.000	7.000	0.000	9.110	0.000	0.000	1390.000	1410.000
X1	8190.000	10000.000	1355.000	1373.000	250.000	257.000	257.000	0.000	0.000	0.000
GR	1350.000	10000.000	1355.000	1140.000	1035.000	1225.000	1032.100	1355.000	1022.000	1360.000
GR	1320.000	1365.000	1320.000	1360.000	1032.000	1373.000	1035.000	1480.000	1040.000	1495.000
GR	1045.000	1512.000	1057.000	1530.000	0.000	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	9.110	0.000	0.000	1340.000	1460.000
X1	8500.000	15000.000	1436.000	1454.000	225.000	320.000	310.000	0.000	0.000	0.000
GR	1335.000	10000.000	1250.000	1084.000	1045.000	1128.000	1040.000	1190.000	1035.000	1270.000
GR	1330.000	1436.000	1320.000	1441.000	1020.000	1447.000	1020.000	1450.000	1033.000	1454.000
GR	1030.000	1400.000	1040.000	1512.000	1045.000	1520.000	1050.000	1040.000	1055.000	1560.000
ET	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	9300.000	11000.000	1157.000	1175.000	800.000	820.000	800.000	0.000	0.000	0.000
GR	1065.000	11000.000	1065.000	1040.000	1055.000	1054.000	1050.000	1070.000	1030.000	1150.000
GR	1030.000	1157.000	1030.000	1160.000	1032.000	1167.000	1032.000	1171.000	1037.000	1175.000
GR	1030.000	1100.000	1030.000	1095.000	1050.000	1234.000	1055.000	1260.000	1065.000	1310.000
ET	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	9670.000	11000.000	1340.000	1362.000	400.000	0.000	3.000	0.000	1290.000	1370.000
GR	1050.000	11000.000	1045.000	1020.000	1037.000	1344.000	1034.000	1340.000	1034.000	1354.000
GR	1034.000	1350.000	1040.000	1360.000	1045.000	1385.000	1050.000	1405.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	9.110	0.000	0.000	1290.000	1370.000
X1	10000.000	15000.000	1344.000	1360.000	330.000	330.000	330.000	0.000	0.000	0.000
GR	1265.000	15000.000	1065.000	1020.000	1055.000	1170.000	1050.000	1160.000	1045.000	1220.000
GR	1040.000	1344.000	1030.000	1040.000	1036.000	1354.000	1037.000	1358.000	1042.000	1362.000
GR	1045.000	1000.000	1050.000	1430.000	1050.000	1410.000	1060.000	1420.000	1065.000	1450.000
ET	0.000	0.000	0.000	0.000	0.000	9.110	0.000	0.000	1200.000	1260.000
X1	11225.000	15000.000	1237.000	1252.000	1170.000	1230.000	1225.000	0.000	0.000	0.000
GR	1070.000	15000.000	1065.000	1040.000	1060.000	1175.000	1055.000	1145.000	1050.000	1200.000
GR	1040.000	1237.000	1040.000	1060.000	1044.000	1245.000	1044.000	1240.000	1040.000	1252.000
GR	1050.000	1000.000	1050.000	1251.000	1060.000	1290.000	1065.000	1320.000	1070.000	1340.000
ET	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	11550.000	15000.000	1260.000	1281.000	215.000	200.000	311.000	0.000	0.000	0.000
GR	1070.000	15000.000	1070.000	1050.000	1065.000	1102.000	1060.000	1136.000	1055.000	1195.000
GR	1050.000	1260.000	1046.000	1070.000	1046.000	1275.000	1046.000	1270.000	1050.000	1281.000
GR	1050.000	1000.000	1060.000	1422.000	1065.000	1450.000	1070.000	1465.000	1075.000	1480.000
ET	0.000	0.000	0.000	0.000	0.000	9.110	0.000	0.000	1245.000	1305.000

Code	Value 1	Value 2	Value 3	Value 4	Value 5	Value 6	Value 7	Value 8	Value 9	Value 10
X1	11576.888	1271.000	1380.000	49.000	43.000	40.000	0.000	1051.500	1051.500	0.000
X3	1075.000	1365.000	1392.000	1069.000	1161.000	1054.700	1221.000	1051.100	1258.000	0.000
GR	1050.000	1274.000	1274.000	1046.700	1280.000	1046.700	1280.000	1050.700	1289.000	0.000
GR	1050.600	1320.000	1340.000	1060.000	1390.000	1065.000	1420.000	1275.000	1450.000	0.000
SB	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	11575.000	1051.000	1051.000	1051.000	1051.000	1051.000	1051.000	1051.000	1051.000	1051.000
X2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BT	0.000	1161.000	1060.000	1220.000	1054.700	1054.700	1054.700	1053.500	1051.100	0.000
BT	0.000	1271.000	1050.000	1271.000	1153.000	1051.000	1200.000	1053.000	1051.100	0.000
BT	0.000	1200.000	1050.000	1200.000	1054.000	1054.000	1054.000	1060.000	1060.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	11630.000	0.000	0.000	0.000	0.000	0.000	0.000	1245.000	1305.000	0.000
NC	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1260.000	1315.000	0.000
X1	12050.000	1200.000	1300.000	395.000	420.000	420.000	0.000	0.000	0.000	0.000
GR	1075.000	1200.000	1270.000	1265.000	1060.000	1060.000	1130.000	1250.000	1294.000	0.000
GR	1050.000	1200.000	1240.000	1040.000	1300.000	1040.000	1300.000	1050.000	1300.000	0.000
GR	1054.000	1200.000	1260.000	1060.000	1400.000	1070.000	1430.000	1075.000	1473.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1240.000	1235.000	0.000
X1	12600.000	1000.000	1200.000	500.000	570.000	570.000	0.000	0.000	0.000	0.000
GR	1060.000	1000.000	1070.000	1060.000	1060.000	1060.000	1120.000	1060.000	1210.000	0.000
GR	1050.000	1000.000	1050.000	1050.000	1050.000	1050.000	1050.000	1050.000	1050.000	0.000
GR	1060.000	1000.000	1060.000	1060.000	1060.000	1060.000	1060.000	1060.000	1060.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1305.000	1375.000	0.000
X1	13140.000	1300.000	1350.000	575.000	575.000	540.000	0.000	0.000	0.000	0.000
GR	1070.000	1300.000	1270.000	1260.000	1200.000	1060.000	1260.000	1261.000	1300.000	0.000
GR	1050.000	1300.000	1350.000	1350.000	1360.000	1050.000	1360.000	1061.000	1360.000	0.000
GR	1060.000	1300.000	1070.000	1070.000	1400.000	0.000	0.000	0.000	0.000	0.000
BT	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1360.000	1420.000	0.000
X1	13660.000	1400.000	1400.000	500.000	500.000	500.000	0.000	0.000	0.000	0.000
GR	1080.000	1400.000	1370.000	1070.000	1230.000	1060.000	1260.000	1060.000	1400.000	0.000
GR	1050.000	1400.000	1350.000	1060.000	1410.000	1060.000	1410.000	1060.000	1430.000	0.000
GR	1070.000	1400.000	1370.000	1060.000	1400.000	0.000	0.000	0.000	0.000	0.000

THIS RUN EXECUTED 20 MAR 85 9:11:43

 HEC2 RELEASE DATED NOV 76 UPDATED MAY 1984
 ERROR CORR - 21,22,23,24,25,26
 MODIFICATION - 50,51,52,53,54,55

T1 FPMS BR FIS MORGANTON NC
 T2 133 YR ENCRDCHD
 T3 WILSON CR

J1	ICHECK	INO	HINV	TOTR	STPT	METRIC	HVINS	Q	WSFL	FQ
	0.	6.	0.	2.	0.000000	0.00	0.0	0.	1005.100	0.000
J2	NPROF	IPLT	PREVS	YSECV	XSECH	FN	ALLDC	IBW	CHNIM	TTRACE
	15.000	0.000	-1.000	0.000	1.000	0.000	0.000	0.000	1.000	15.000

THIS RUN EXECUTED 20 MAR 85 9:11:57

 HEC2 RELEASE DATED NOV 76 UPDATED MAY 1984
 ERROR CORR - 01, 02, 03, 34, 05, 06
 MODIFICATION - 50, 51, 52, 53, 54, 55

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

WILSON CR
SUMMARY PRINTOUT

SECNO	CWSEL	EG	FLMIN	ELLC	10K*8	0
1.000	1004.40	1004.54	097.00	0.00	30.12	1800.00
1.000	1005.10	1005.20	097.00	0.00	25.03	1890.00
5.000	1014.42	1014.56	097.00	0.00	20.62	1890.00
5.000	1015.11	1015.20	097.00	0.00	25.70	1890.00
10.000	1024.44	1024.57	097.00	0.00	20.75	1800.00
10.000	1025.17	1025.31	097.00	0.00	25.42	1890.00
50.000	1034.50	1034.50	097.00	0.00	25.34	1890.00
50.000	1035.24	1035.41	097.00	0.00	27.60	1890.00
150.000	1036.02	1036.01	097.00	0.00	19.10	1200.00
150.000	1035.40	1035.63	097.00	0.00	20.02	1890.00
300.000	1035.00	1035.10	097.00	0.00	14.37	1890.00
300.000	1035.70	1035.31	097.00	0.00	14.64	1890.00
600.000	1036.00	1036.46	097.00	0.00	41.63	1890.00
600.000	1037.00	1037.07	097.00	0.00	36.09	1890.00
1540.000	1030.01	1030.35	1000.00	0.00	10.02	1890.00
1540.000	1030.00	1030.12	1000.00	0.00	21.00	1890.00
2100.000	1040.76	1040.22	1001.00	0.00	56.76	1800.00
2100.000	1041.00	1041.00	1001.00	0.00	41.14	1890.00
2320.000	1011.41	1011.46	1000.00	0.00	7.76	1800.00
2320.000	1011.17	1011.31	1000.00	0.00	15.16	1890.00
2370.000	1011.45	1011.73	1000.00	0.00	7.56	1890.00
2370.000	1011.29	1011.39	1000.00	0.00	10.44	1890.00

20 MAR 85

9:11:15

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SECNO	CWSEL	SG	ELMIN	ELLC	10K*5	Q
2389.000	1010.95	1010.99	1002.40	1005.02	6.02	1890.00
2389.000	1011.63	1011.71	1002.40	1005.00	8.68	1890.00
2430.000	1010.97	1011.21	1002.30	0.00	5.68	1890.00
2430.000	1011.68	1011.75	1002.30	0.00	7.49	1890.00
2600.000	1011.01	1011.74	1003.00	0.00	47.60	1890.00
2620.000	1011.75	1012.13	1003.00	0.00	37.34	1890.00
2800.000	1012.22	1013.34	1004.00	0.00	116.45	1890.00
2800.000	1012.55	1013.73	1004.00	0.00	80.24	1890.00
3550.000	1016.22	1017.18	1007.30	0.00	30.25	1890.00
3550.000	1017.21	1017.76	1007.32	0.00	34.93	1890.00
3930.000	1010.40	1010.32	1000.00	0.00	70.94	1890.00
3970.000	1010.79	1010.58	1000.00	0.00	63.17	1890.00
4400.000	1021.11	1021.28	1011.20	0.00	21.02	1890.00
4400.000	1021.46	1021.77	1011.20	0.00	29.68	1890.00
5500.000	1024.74	1025.40	1016.10	0.00	23.85	1890.00
5500.000	1025.64	1026.44	1016.10	0.00	78.78	1890.00
6850.000	1031.44	1031.59	1022.50	0.00	24.74	1675.00
6850.000	1031.25	1032.14	1022.50	0.00	24.59	1675.00
6850.000	1031.50	1031.66	1022.50	0.00	23.22	1675.00
6850.000	1032.00	1032.20	1022.50	0.00	23.64	1675.00
6900.000	1032.24	1032.14	1022.00	1032.00	18.02	1675.00
6900.000	1032.77	1032.90	1022.00	1032.00	10.14	1675.00
6940.000	1032.22	1032.22	1022.00	0.00	16.25	1675.00
6940.000	1032.80	1033.10	1022.00	0.00	15.47	1675.00
7510.000	1033.11	1033.21	1024.70	0.00	18.45	1675.00
7510.000	1033.07	1034.50	1024.70	0.00	22.12	1675.00
7690.000	1033.40	1033.73	1025.50	0.00	37.69	1675.00
7690.000	1034.29	1034.56	1025.50	0.00	31.41	1675.00
7940.000	1034.51	1034.02	1024.60	0.00	54.42	1675.00
7940.000	1035.13	1035.59	1024.60	0.00	47.05	1675.00
8100.000	1035.65	1036.12	1025.00	0.00	40.05	1675.00
8100.000	1036.37	1036.78	1025.00	0.00	44.55	1675.00
8500.000	1036.99	1037.15	1029.20	0.00	28.18	1675.00
8500.000	1037.64	1037.92	1029.20	0.00	32.35	1675.00

SECNO	CWSEL	ER	FLMIV	FLLC	10K*5	Q
9320.000	1042.78	1042.76	1032.60	0.00	218.39	1675.00
9320.000	1041.65	1047.00	1032.60	0.00	134.02	1675.00
9670.000	1045.03	1045.23	1034.30	0.00	25.00	1675.00
9670.000	1045.01	1045.29	1034.50	0.00	30.37	1675.00
10000.000	1046.01	1046.23	1034.40	0.00	35.00	1675.00
10000.000	1046.19	1046.54	1034.40	0.00	45.92	1675.00
11225.000	1052.69	1052.36	1044.10	0.00	100.39	1675.00
11225.000	1052.28	1054.16	1044.10	0.00	80.65	1675.00
11536.000	1055.25	1056.00	1046.00	0.00	42.46	1405.00
11536.000	1055.01	1056.73	1046.72	0.00	50.13	1405.00
11576.000	1055.36	1055.73	1046.70	0.00	47.08	1405.00
11576.000	1056.11	1056.51	1046.70	0.00	42.11	1405.00
11595.000	1055.03	1056.13	1046.70	1051.20	34.84	1405.00
11595.000	1056.75	1057.07	1046.70	1051.20	31.65	1405.00
11630.000	1055.07	1056.20	1046.70	0.00	31.74	1405.00
11630.000	1056.07	1057.13	1046.70	0.00	20.07	1405.00
12050.000	1057.36	1057.66	1040.00	0.00	30.30	1405.00
12050.000	1059.21	1059.43	1040.00	0.00	30.70	1405.00
12620.000	1060.63	1061.30	1050.00	0.00	114.32	1405.00
12620.000	1061.34	1062.17	1050.00	0.00	97.04	1405.00
13160.000	1064.24	1064.40	1056.20	0.00	31.33	1405.00
13160.000	1065.11	1065.40	1056.20	0.00	30.54	1405.00
13665.000	1066.65	1067.20	1050.60	0.00	130.48	1250.00
13665.000	1067.67	1068.15	1050.60	0.00	83.14	1250.00
14360.000	1071.60	1071.00	1064.30	0.00	40.25	1250.00
14360.000	1072.05	1072.67	1064.30	0.00	53.70	1250.00
15000.000	1075.03	1075.23	1060.70	0.00	96.06	1250.00
15000.000	1076.18	1076.24	1060.70	0.00	74.07	1250.00
15570.000	1080.24	1080.05	1072.50	0.00	70.59	1250.00
15570.000	1080.49	1081.10	1072.50	0.00	70.41	1250.00
16000.000	1080.45	1080.35	1075.50	0.00	67.07	1225.00
16000.000	1080.72	1080.41	1075.50	0.00	63.20	1225.00

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WILSON CR
SUMMARY PRINTOUT

SECNO	CWSEL	SSTA	STCHL	STCHR	ENDST	TOPWID	1BK*S
1.000	1004.40	1302.15	1641.00	1650.00	1692.00	390.67	30.12
1.000	1005.10	1530.00	1641.00	1650.00	1670.00	140.00	25.93
5.000	1004.40	1302.00	1641.00	1650.00	1692.00	392.11	20.62
5.000	1005.11	1530.00	1641.00	1650.00	1670.00	140.00	25.70
10.000	1004.44	1300.00	1641.00	1650.00	1693.00	393.70	20.05
10.000	1005.13	1530.00	1641.00	1650.00	1670.00	140.00	25.44
50.000	1076.00	1260.00	1641.00	1650.00	1694.00	405.78	25.34
50.000	1005.04	1530.00	1641.00	1650.00	1670.00	140.00	23.60
150.000	1204.00	1265.00	1641.00	1650.00	1696.00	431.41	19.10
150.000	1005.00	1530.00	1641.00	1650.00	1670.00	140.00	20.02
300.000	1005.00	1240.00	1641.00	1650.00	1690.00	450.01	14.37
300.000	1005.00	1530.00	1641.00	1650.00	1670.00	140.00	16.64
800.000	1006.00	1200.00	1641.00	1650.00	1696.00	494.00	41.60
800.000	1006.00	1530.00	1641.00	1650.00	1670.00	140.00	36.09
1540.000	1000.00	1100.00	1174.00	1190.00	1275.00	160.00	10.00
1540.000	1000.00	1530.00	1174.00	1190.00	1250.00	100.00	21.70
2100.000	1000.00	1000.00	1300.00	1330.00	1450.00	156.14	50.36
2100.000	1010.00	1310.00	1300.00	1330.00	1400.00	90.00	41.14
2300.000	1010.00	1200.00	1510.00	1530.00	1600.00	333.79	7.76
2300.000	1011.00	1450.00	1510.00	1530.00	1500.00	140.00	15.16
2370.000	1010.00	1200.00	1510.00	1530.00	1600.00	334.04	7.56
2370.000	1011.00	1400.00	1510.00	1530.00	1550.00	150.00	10.44
2380.000	1010.00	1200.00	1510.00	1530.00	1600.00	341.50	6.02
2380.000	1011.00	1400.00	1510.00	1530.00	1550.00	150.00	9.63
2400.000	1010.00	1200.00	1510.00	1530.00	1600.00	327.16	5.66
2400.000	1011.00	1300.00	1510.00	1530.00	1550.00	160.00	7.49
2600.000	1011.00	1170.00	1330.00	1350.00	1360.00	104.25	47.60
2600.000	1011.00	1200.00	1330.00	1350.00	1360.00	100.00	37.34
2800.000	1010.00	1200.00	1330.00	1350.00	1370.00	134.00	116.45
2800.000	1010.00	1200.00	1330.00	1350.00	1370.00	100.00	80.84
3550.000	1010.00	1200.00	1330.00	1350.00	1415.00	100.00	30.25
3550.000	1010.00	1200.00	1330.00	1350.00	1390.00	100.00	36.85

SECNO	CWSEL	RSTA	STCHL	STCHP	FNOST	TOPWID	12X*S
3930.000	1618.40	1715.00	1734.00	1755.00	1450.02	143.33	73.94
3930.000	1618.70	1720.00	1734.00	1755.00	1400.00	30.00	63.17
4480.000	1621.10	1746.10	1734.00	1755.00	1465.70	219.66	21.02
4480.000	1621.40	1790.00	1734.00	1755.00	1400.00	118.00	29.48
5530.000	1624.74	1710.00	1780.00	1790.00	1324.06	112.74	93.83
5530.000	1625.44	1790.00	1780.00	1790.00	1710.00	60.00	78.38
6850.000	1631.44	1720.00	1461.00	1470.00	1542.07	280.36	24.74
6850.000	1631.90	1720.00	1461.00	1470.00	1520.00	140.00	24.59
6830.000	1631.50	1730.00	1461.00	1470.00	1543.65	283.77	23.22
6830.000	1632.00	1740.00	1461.00	1470.00	1531.00	140.00	23.44
6900.000	1632.04	1740.00	1460.00	1470.00	1750.83	314.71	18.02
6900.000	1632.70	1740.00	1460.00	1470.00	1500.00	140.00	19.14
6940.000	1632.00	1744.00	1500.00	1510.00	1470.60	326.23	16.25
6940.000	1632.30	1790.00	1500.00	1510.00	1650.00	160.00	13.47
7510.000	1633.11	1770.00	1735.00	1770.00	1470.45	294.68	19.45
7510.000	1633.00	1770.00	1735.00	1770.00	1450.00	150.00	22.12
7600.000	1633.40	1730.00	1755.00	1770.00	1510.00	274.37	37.40
7600.000	1634.00	1790.00	1755.00	1770.00	1450.00	130.00	31.41
7940.000	1634.51	1740.00	1755.00	1770.00	1490.11	248.00	54.42
7940.000	1635.10	1790.00	1755.00	1770.00	1420.00	130.00	47.95
8100.000	1635.00	1740.00	1755.00	1770.00	1480.00	270.00	43.00
8100.000	1636.00	1790.00	1755.00	1770.00	1410.00	110.00	44.53
8500.000	1636.00	1770.00	1434.00	1454.00	1495.01	256.00	20.10
8500.000	1637.00	1790.00	1434.00	1454.00	1460.00	120.00	32.30
9300.000	1640.00	1730.00	1750.00	1770.00	1780.00	50.00	210.00
9300.000	1641.00	1740.00	1750.00	1770.00	1790.00	50.00	134.00
9670.000	1645.00	1710.00	1744.00	1760.00	1765.11	165.00	25.00
9670.000	1645.00	1790.00	1744.00	1760.00	1770.00	80.00	31.00
10000.000	1646.00	1710.00	1744.00	1760.00	1735.00	170.00	35.00
10000.000	1647.00	1790.00	1744.00	1760.00	1770.00	30.00	45.00
11200.000	1655.00	1770.00	1730.00	1750.00	1775.00	115.00	120.00
11200.000	1655.00	1790.00	1730.00	1750.00	1760.00	50.00	30.00
11530.000	1655.00	1790.00	1760.00	1780.00	1770.00	130.00	42.00
11530.000	1655.00	1740.00	1760.00	1780.00	1780.00	60.00	50.00

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SECNO	CMREL	SDTA	STOHL	STOHP	FNDST	TOPWID	10K*9
11576.000	1055.36	1212.62	1271.00	1282.00	1343.63	131.00	47.88
11576.020	1056.11	1245.11	1271.00	1282.00	1315.00	60.00	42.11
11595.000	1253.73	1207.60	1271.00	1280.00	1348.30	140.00	34.84
11595.020	1256.75	1245.00	1271.00	1280.00	1305.00	60.00	31.65
11630.000	1255.07	1205.00	1271.00	1280.00	1340.75	143.00	31.74
11630.020	1256.07	1245.00	1271.00	1280.00	1305.00	60.00	29.97
12050.000	1057.00	1197.53	1270.00	1287.00	1343.00	155.47	32.30
12050.020	1059.04	1207.00	1270.00	1287.00	1315.00	55.00	30.78
12620.000	1260.43	1207.64	1262.00	1281.00	1315.00	104.00	114.32
12620.020	1264.04	1245.00	1262.00	1281.00	1305.00	45.00	97.74
13160.000	1066.04	1210.66	1305.00	1300.00	1374.71	166.00	31.35
13160.020	1068.14	1205.00	1305.00	1300.00	1375.00	70.00	38.54
13665.000	1066.65	1310.00	1411.00	1417.00	1443.04	124.00	132.40
13665.020	1067.00	1260.00	1411.00	1417.00	1427.00	60.00	37.14
14340.000	1071.00	1253.00	1410.00	1417.00	1432.77	174.00	40.25
14340.020	1072.00	1245.00	1410.00	1417.00	1427.00	60.00	53.30
15000.000	1075.00	1205.00	1410.00	1415.00	1427.42	163.44	26.06
15000.020	1076.10	1245.00	1410.00	1415.00	1420.00	62.00	74.07
15570.000	1080.00	1237.00	1430.00	1447.00	1466.15	120.00	70.59
15570.020	1080.00	1230.00	1430.00	1447.00	1460.00	60.00	70.41
16000.000	1080.00	1205.00	1410.00	1415.00	1463.40	90.74	67.07
16000.020	1080.00	1205.00	1410.00	1415.00	1425.00	50.00	63.02

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FLOODWAY DATA 2 WILSON CR

STATION	WIDTH	SECTION AREA	VELOCITY	WATER SURFACE ELEVATION	WTDADDT FLOODWAY	ELEVATION DIFFERENCE
1	100	100	100	100	100	100
2	100	100	100	100	100	100
3	100	100	100	100	100	100
4	100	100	100	100	100	100
5	100	100	100	100	100	100
6	100	100	100	100	100	100
7	100	100	100	100	100	100
8	100	100	100	100	100	100
9	100	100	100	100	100	100
10	100	100	100	100	100	100
11	100	100	100	100	100	100
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38	100	100	100	100	100	100
39	100	100	100	100	100	100
40	100	100	100	100	100	100
41	100	100	100	100	100	100
42	100	100	100	100	100	100
43	100	100	100	100	100	100
44	100	100	100	100	100	100
45	100	100	100	100	100	100
46	100	100	100	100	100	100
47	100	100	100	100	100	100
48	100	100	100	100	100	100
49	100	100	100	100	100	100
50	100	100	100	100	100	100



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FLOODWAY DATA WILSON CR
PROFILE NO. 2

STATION	WIDTH	FLOODWAY SECTION AREA	MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	ELEVATION WITHOUT FLOODWAY	DIFFERENCE
15570.800	52.	276.	6.5	1088.4	1088.2	0.2
16000.300	52.	239.	4.0	1083.7	1083.5	0.2

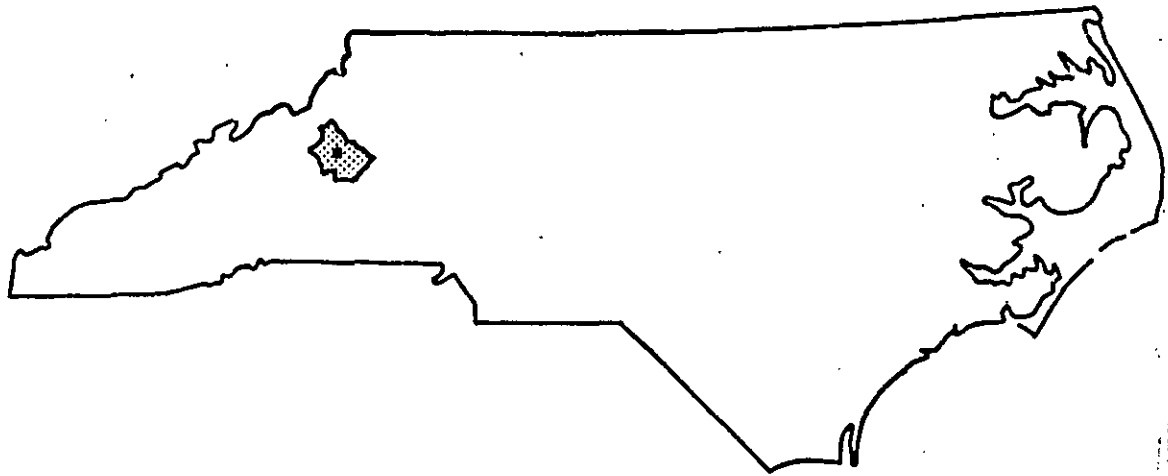
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3.A. Study Contract or Draft Text

FLOOD INSURANCE STUDY



CITY OF MORGANTON
NORTH CAROLINA
BURKE COUNTY



Federal Emergency Management Agency

COMMUNITY NUMBER •

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	06P	Canoe Creek
	07P	Warrior Fork
	08P-10P	Wilson Creek
	11P-14P	Hunting Creek
	15P	Hunting Creek Tributary No. 1
	16P-18P	Sandy Run
	19P-20P	East Prong
	21P-24P	Fiddlers Run
	25P-26P	Silver Creek
	27P-30P	Little Silver Creek
	31P-32P	Bailey Fork

Exhibit 2	Bench Mark Descriptions	
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PUBLISHED SEPARATELY:

Flood Insurance Combined Work Map

FLOOD INSURANCE STUDY
CITY OF MORGANTON
BURKE COUNTY, NORTH CAROLINA

1.0 INTRODUCTION

1.1 Purpose of Study

The purpose of this Type 15 Flood Insurance Study is to investigate the existence and severity of flood hazards in the city of Morganton, Burke County, North Carolina, and to aid in the administration of the Flood Insurance Act of 1968 and the Flood Disaster Protection Act of 1973. This study will be used to convert Morganton to the regular program of Flood Insurance by the Federal Emergency Management Agency (FEMA). Further use of the information will be made by local and regional planners in their efforts to promote sound land use and flood plain management. Minimum flood plain management requirements for participation in the National Flood Insurance Program are set forth in the Code of Federal Regulations at 44 CFR, 60.3.

In some states or communities, flood plain management criteria or regulations may exist that are more restrictive or comprehensive than the minimum Federal requirements. In such cases, the more restrictive criteria take precedence, and the state (or other jurisdictional) agency will be able to explain them.

1.2 Authority and Acknowledgments

The sources of authority for this Flood Insurance Study (FIS) are the National Flood Insurance Act of 1968 and the Flood Disaster Protection Act of 1973.

The hydraulic and hydrologic analyses for this study were performed by the U.S. Army Corps of Engineers (COE), Wilmington District (the Study Contractor) for the FEMA, under Interagency Agreement No. EMW-84-E-1506, Project Order No. 1, Amendment 4. The study was completed in April 1985.

1.3 Coordination

On 2 August 1984, an Initial Coordination Meeting was held in the city of Morganton City Hall with representatives of FEMA, the State of North Carolina, the City of Morganton, and the COE in attendance. At this meeting, the nature and purpose of the FIS were explained, study streams were identified, and study limits were established. The methodology to be used in this study and the floodway concept were discussed. An announcement of the initiation of the study and a request for flooding information were published in local newspapers at the outset of the study.

On _____, the results of this FIS were reviewed and accepted at a final coordination meeting attended by representatives of the Study Contractor, FEMA, and the community.

2.0 AREA STUDIED

2.1 Scope of Study

This FIS covers the incorporated area of the city of Morganton, Burke County, N. C. The study area is shown on the vicinity map (figure 1).

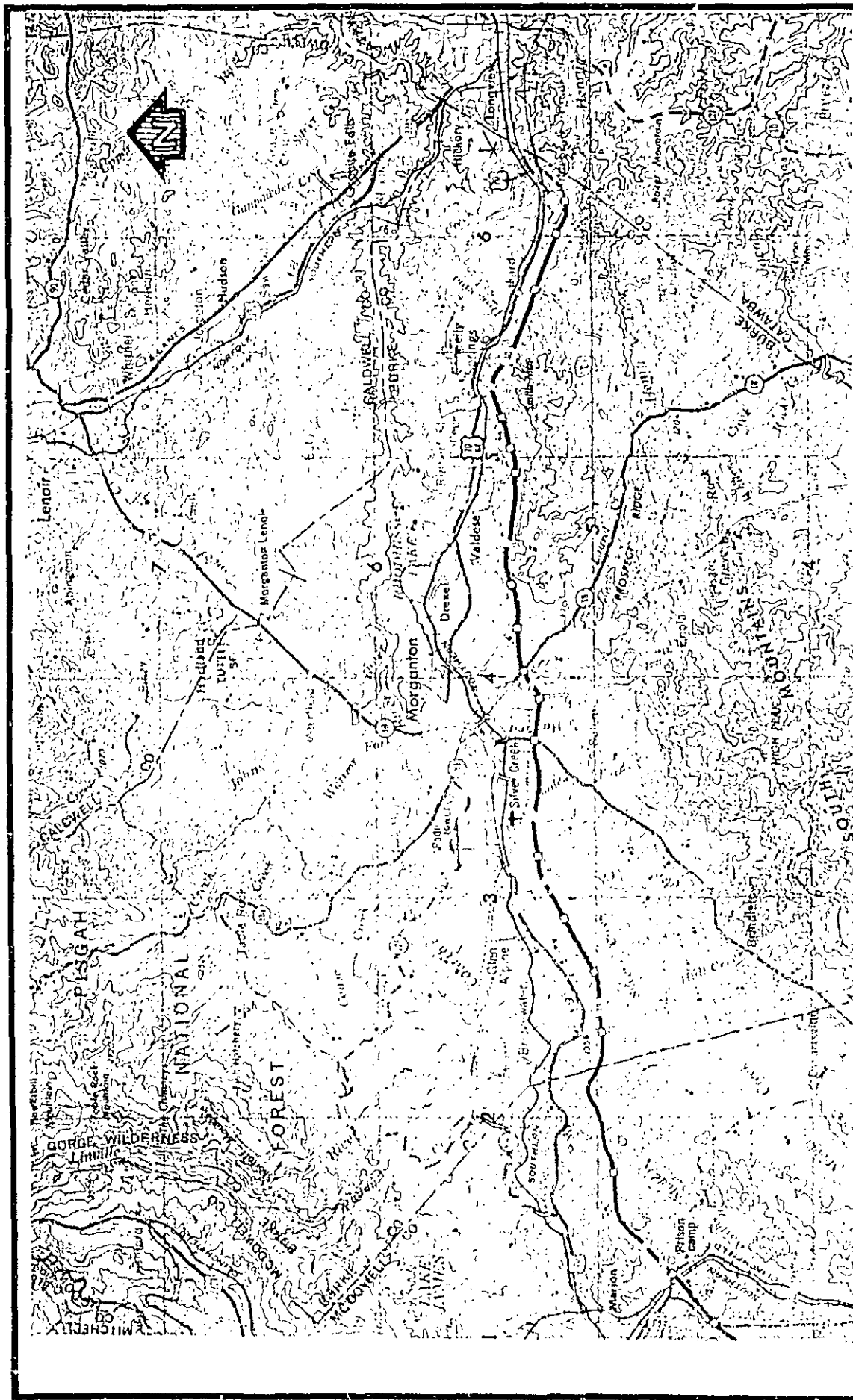
Within the planning jurisdiction of the community, flooding caused by the Catawba River, Warrior Fork, Wilson Creek, Canoe Creek, Hunting Creek, Hunting Creek Tributary No. 1, Sandy Run, East Prong, Fiddlers Run, Silver Creek, Little Silver Creek, and Bailey Fork was studied in detail.

The areas studied were selected with priority given to all known flood hazard areas and areas of projected development or proposed construction through April 1990. The scope and methods of study were proposed to and agreed upon by FEMA and the city of Morganton.

2.2 Community Description

Morganton is a small, industrialized city in western North Carolina. It is situated in Burke County about 55 miles east of Asheville. The city is surrounded by the unincorporated areas of Burke County. The population of Morganton was reported to be 13,625 in 1970 and 13,763 in 1980 (reference 1).

Morganton was a frontier town of early Carolina history, named for General Daniel Morgan, commander of the Burke County troops who fought at Kings Mountain and Cowpens in the Revolutionary War in 1780 and 1781. Its past is colorful and interesting. Prior to 1750 the area served only as hunting grounds for the Catawba and Cherokee Indians and an occasional lone pioneer hunter. In 1752 the area was described as "a region that has perhaps been seldom visited since the creation of the world." However, a stream of settlers from Pennsylvania, Maryland, and Virginia into the Carolinas soon began to transform the area forever. By 1777 these settlers had become numerous enough to petition the colonial governor to establish a county and Burke County was designated. In 1784 the General Assembly of North Carolina set aside 100 acres of land in the center of the county to build a courthouse, prison, and stocks. Thus began the present city of Morganton. At the time the town was incorporated in 1839, there were about 1,000 inhabitants. Industry began in the Morganton area around 1900 with the construction of a large tannery. Later, there was an influx of furniture and textile factories. Presently, industry is diversified by over 80 plants manufacturing primarily furniture, textiles, and chemicals.

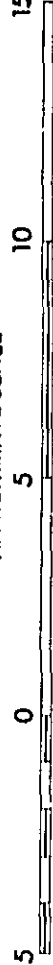


FEDERAL EMERGENCY MANAGEMENT AGENCY

CITY OF MORGANTON
(BURKE CO., N.C.)

FIGURE 1

APPROXIMATE SCALE



VICINITY MAP

Morganton lies in the upper Piedmont region of North Carolina in the foothills of the Blue Ridge Mountains. Hills are moderately steep to gently rolling, with narrow ridges and pronounced escarpments between upland and stream terraces. Land elevations along the streams vary from about 1,000 feet to 1,150 feet, National Geodetic Vertical Datum (NGVD) of 1929, and uplands range from about 1,200 feet to 1,300 feet NGVD. Principal soils are members of the Hiwassee-Cecil Association, well drained, medium surface runoff, moderate permeability, deep soils with dark red to red firm clay subsoils on broad, gently sloping ridges to moderately steep uplands. Flood plain soils are of the Congaree-Chewocla Association, nearly level, well to somewhat poorly drained, with silt loam and silty clay loam subsoils (reference 2).

Morganton has a mild climate, with a mean annual temperature of 58 degrees Fahrenheit and average annual precipitation of about 56 inches (reference 3).

The Catawba River, with a drainage area of about 705 square miles at the lower study limit, has an average fall of about 3 feet per mile. Within the study area, the 100-year flood plain width ranges from about 700 feet near the confluence of Hunting Creek to nearly a mile in the Quaker Meadow area. The Warrior Fork, with a drainage area of about 88 square miles, has approximately the same flood plain characteristics as the Catawba River. The 100-year flood plain width for Hunting Creek and its tributaries within the study area ranges from 100 feet to 500 feet, with the average width being approximately 200 feet. The average channel slope for these streams varies from 13 feet per mile (FPM) to 52 FPM, with most of it having a slope of approximately 25 FPM. Silver Creek and its studied tributaries have average channel slopes of 7 FPM to 24 FPM and flood plain widths that vary from 100 feet to a maximum of 2,000 feet, with the average top width being between 300 and 400 feet. The 100-year flood plain along Wilson Creek is fairly constant, with an average width of about 200 feet and an average channel slope of 26 FPM. The flood plain along Canoe Creek varies quite drastically, with widths ranging from 100 feet at several natural restrictions to about 1,000 feet at its widest point. The channel has an average slope of 13 FPM.

2.3 Principal Flood Problems

Low-lying areas of Morganton are subject to periodic flooding from the Catawba River, Hunting Creek, Silver Creek, and their tributaries. The largest known flood of record on the Catawba River occurred in July 1916 and the second largest in August 1940.

Based on interviews with local people, it is estimated that the 1940 flood on the Catawba River in the vicinity of Silver Creek reached an elevation of 1,028 feet NGVD. The 1916 flood was estimated by local residents to be at least 15 feet higher than the 1940 flood

(references 4 and 5). Both of these floods are considered to be rare occurrences.

2.4 Flood Protection Measures

There are no structural flood prevention or reduction measures that affect the study area. However, the hydropower project located on the Catawba River upstream of Morganton does cause some minor reduction in the Catawba River peak flood flows.

Nonstructural measures of flood protection are being used to aid in the prevention of future flood damage. These are in the form of land use regulations, adopted from the Code of Federal Regulations, which control building within areas that have a high risk of flooding (reference 6).

3.0 ENGINEERING METHODS

For the flooding sources studied in detail in the community, standard hydrologic and hydraulic study methods were used to determine the flood hazard data required for this study. Flood events of a magnitude that are expected to be equalled or exceeded once on the average during any 10-, 50-, 100-, or 500-year period (recurrence interval) have been selected as having special significance for flood plain management and for flood insurance rates. These events, commonly termed the 10-, 50-, 100-, and 500-year floods, have a 10, 2, 1, and 0.2 percent chance, respectively, of being equalled or exceeded during any year. Although the recurrence interval represents the long-term average period between floods of a specific magnitude, rare floods could occur at short intervals or even within the same year. The risk of experiencing a rare flood increases when periods greater than 1 year are considered. For example, the risk of having a flood that equals or exceeds the 100-year flood (1 percent chance of annual exceedence) in any 50-year period is approximately 40 percent (4 in 10) and, for any 90-year period, the risk increases to approximately 60 percent (6 in 10). The analyses reported herein reflect flooding potentials based on conditions existing in the community at the time of completion of this study. Maps and flood elevations will be amended periodically to reflect future changes.

3.1 Hydrologic Analyses

Hydrologic analyses were carried out to establish the peak discharge-frequency relationships for each riverine flooding source studied in detail affecting the community.

Morganton is located on the Catawba River at the upper end of the normal pool of Lake Rhodhiss and just downstream of Lake James. Both are hydropower projects. Using a unit hydrograph developed from the 1940 flood of record and the excess rainfalls, the 10-, 50-, 100-, and 500-year flood hydrographs were calculated for the Catawba River. Using HEC-1 (reference 7), these flood hydrographs

were flood routed through both reservoirs using stage-storage and outlet structure rating curves provided by the power company.

The discharges for the remainder of the streams in the study area were computed using the generalized regression equations given in the United States Geological Survey (USGS) Water Resources Investigations by H. M. Jackson, Jr. (reference 8) and the techniques and procedures outlined in the USGS open file report by Arthur L. Putnam (reference 9). The higher discharge from these computations was used in the backwater computations.

Peak discharge-drainage area relationships for the study area are shown in table 1.

TABLE 1 - SUMMARY OF DISCHARGES

FLOODING SOURCE AND LOCATION	DRAINAGE AREA (sq. miles)	PEAK DISCHARGE (cfs)			
		10-YR	50-YR	100-YR	200-YR
CANOE CREEK					
Mouth	15.6	2,000	3,300	4,030	5,570
At SR 1284	14.8	1,925	3,200	3,905	5,405
At NC 126	13.9	1,840	3,070	3,750	5,200
HUNTING CREEK					
Mouth	25.8	3,215	4,990	5,640	8,760
Below trib. 1500 ft. above SR 1571	25.1	3,215	4,990	5,640	8,760
Above trib.	23.9	3,155	4,900	5,535	8,540
Below trib. #1	23.6	3,155	4,900	5,535	8,540
above trib. #1	22.0	3,020	4,695	5,315	8,235
Below Sandy Run	21.6	3,020	4,695	5,315	8,215
Above Sandy Run	18.8	2,775	4,350	4,940	7,635
Below East Prong	18.7	2,775	4,350	4,940	7,635
Above East Prong	9.6	1,845	3,000	3,470	5,365
At College Street	8.4	1,630	2,695	3,140	4,895
Below trib. #2	6.5	1,480	2,455	2,865	4,425
Above trib. #2	5.6	1,130	1,970	2,345	3,740
At SR 1940	5.0	1,125	1,935	2,300	3,625
Below trib. from east 3000 ft. above SR 1940	4.5	1,115	1,910	2,265	3,535
LITTLE SILVER CREEK					
Mouth	5.0	1,175	2,005	2,375	3,720
Below trib. just upstream of SR 1150	3.9	977	1,705	2,035	3,205
Above trib.	3.2	865	1,525	1,830	2,885
At SR 1147	2.4	700	1,265	1,540	2,440
Opposite end of SR 1146	1.8	630	1,140	1,390	2,170

TABLE 1 - SUMMARY OF DISCHARGES--Cont'd

FLOODING SOURCE AND LOCATION	DRAINAGE AREA (sq. miles)	PEAK DISCHARGE (cfs)			
		10-YR	50-YR	100-YR	500-YR
WILSON CREEK					
Mouth	3.2	905	1,580	1,890	2,955
At SR 1419	2.3	800	1,395	1,675	2,580
At SR 1414	1.7	650	1,160	1,405	2,170
Opposite intersection of SR 1414 & SR 1415	.8	460	835	1,025	1,550
HUNTING CREEK TRIBUTARY #1					
Mouth	1.6	660	1,170	1,415	2,175
Below trib. from south 4000 ft. above mouth	1.0	555	990	1,200	1,910
SANDY RUN					
Mouth	2.8	850	1,480	1,775	2,765
Below trib. from east 3000 ft. above mouth	2.6	850	1,480	1,775	2,765
Above trib.	1.8	600	1,095	1,340	2,120
Approx. 2500 ft. below I-40	1.2	615	1,075	1,399	1,950
FIDDLERS RUN					
Mouth	2.4	670	1,225	1,495	2,400
At N/ 18	1.9	540	1,015	1,250	2,035
At SR 1924	1.6	485	925	1,145	1,850
At SR 1940	1.1	440	830	1,030	1,635
EAST PRONG CREEK					
Mouth	9.2	1,750	2,870	3,330	5,170
Below Fiddlers Run	9.0	1,750	2,870	3,330	5,170
Above Fiddlers Run	6.6	1,390	2,335	2,745	4,280
Below trib from east approx. 2000 ft. above Fiddlers Run	6.5	1,390	2,335	2,745	4,280
Above trib.	5.9	1,300	2,200	2,595	4,060
At NC 18	5.3	1,215	2,065	2,445	3,830
Below trib from east approx. 3500 ft. below SR 1931	4.6	1,160	1,970	2,330	3,625
Above trib.	3.1	740	1,350	1,640	2,660
Above trib. from west approx. 3000 ft. below SR 1931	2.2	640	1,170	1,430	2,290
At SR 1931	2.1	625	1,145	1,400	2,240

TABLE 1 - SUMMARY OF DISCHARGES--Cont'd

FLOODING SOURCE AND LOCATION	DRAINAGE AREA (sq. miles)	PEAK DISCHARGE (cfs)			
		10-YR	50-YR	100-YR	500-YR
SILVER CREEK					
Mouth	62.0	5,035	8,085	9,715	12,905
Below trib. at US 70	60.1	4,925	7,920	9,520	12,660
Above trib. at US 70	59.2	4,880	7,850	9,440	12,550
Below Bailey Fork	58.0	4,810	7,740	9,310	12,390
Above Bailey Fork	47.6	4,215	6,810	8,210	10,985
Below Little Silver Creek	47.2	4,190	6,775	8,165	10,935
Above Little Silver Creek	42.2	3,885	6,295	7,600	10,205
Below trib approx. 5200 ft. above Little Silver Cr.	41.5	3,845	6,230	7,520	10,110
Above trib.	41.0	3,810	6,180	7,460	10,030
Below Clear Creek	39.6	3,725	6,045	7,300	9,825
BAILEY FORK					
Mouth	10.4	1,770	2,930	3,405	5,355
At SR 1102	7.8	1,520	2,540	2,975	4,665
Below trib just below SR 1112	6.3	1,455	2,415	2,820	4,350
Above trib.	5.3	1,310	2,190	2,575	3,970
WARRIOR FORK					
Mouth	88.1	6,375	10,155	12,155	15,980
Upper Study Limit	83.6	6,155	9,815	11,755	15,480
CATAWBA RIVER					
Above Johns River	705.0	22,000	34,000	40,000	52,500
Above Hunting Creek	679.0	21,300	32,500	38,200	50,300
Above Warrior Fork	591.0	18,000	26,800	32,000	42,200
Above Silver Creek	524.0	15,000	22,000	27,000	36,000
At SR 1147	504.0	14,000	21,000	25,400	33,800

3.2 Hydraulic Analyses

Analyses of the hydraulic characteristics of flooding from the sources studied were carried out to provide estimates of the elevations of floods of the selected recurrence intervals.

Water surface profiles were determined using the COE HEC-2 step-backwater computer program for the 10-, 50-, 100-, and 500-year floods (reference 10). Roughness coefficients for the streams being studied were estimated during a field inspection of the streams. Coefficients in the study area generally range from 0.04 to 0.06 in the main channels and from 0.08 to 0.12 in the overbank area. The slope area-method was used to calculate starting water-surface elevations for all streams studied in detail.

Cross-section data for streams were obtained from field surveys, as were elevation data and structural geometry on bridges, culverts, and dams.

Locations of selected cross sections used in the hydraulic analyses are shown on the Flood Profiles. For stream segments for which a floodway was computed (Section 4.2), selected cross-section locations are also shown on the Flood Boundary and Floodway Map.

Flood profiles were drawn showing computed water-surface elevations for floods of the selected recurrence intervals. In cases where the 50- and 100-year flood elevations are close together, due to limitations of the profile scale, only the 100-year profile has been drawn.

The hydraulic analyses for this study are based only on the effects of unobstructed flow. The flood elevations shown on the profiles are, thus, considered valid only if hydraulic structures remain unobstructed, operate properly, and do not fail.

All elevations are referenced to the NGVD. Elevation reference marks used in this study are shown on the maps.

4.0 FLOOD PLAIN MANAGEMENT APPLICATIONS

The National Flood Insurance Program encourages state and local governments to adopt sound flood plain management programs. Therefore, each FIS produces maps designed to assist communities in developing flood plain management measures.

4.1 Flood Boundaries

To provide a national standard without regional discrimination, the 1 percent annual chance (100-year) flood has been adopted by FEMA as the base flood for flood plain management purposes. The 0.2 percent annual chance (500-year) flood is employed to indicate additional areas of flood risk in the community. For each stream studied in detail, the 100- and 500-year flood plain boundaries have been delineated using the flood elevations determined at each cross section. Between cross sections, the boundaries were interpolated using topographic maps at a scale of 1:4800, with a contour interval of 5 feet (references 11 and 12).

The 100- and 500-year flood plain boundaries are shown on the Flood Boundary and Floodway Map. In cases where the 100- and 500-year flood plain boundaries are close together, only the 100-year flood plain boundary has been shown. Small areas within the flood plain boundaries may lie above the flood elevations but cannot be shown due to limitations of the map scale and/or lack of detailed topographic data.

4.2 Floodways

Encroachment on flood plains, such as structures and fill, reduces flood-carrying capacity, increases the flood heights and velocities, and increases flood hazards in areas beyond the encroachment itself. One aspect of flood plain management involves balancing the economic gain from flood plain development against the resulting increase in flood hazard. For purposes of the National Flood Insurance Program, a floodway is used as a tool to assist local communities in this aspect of flood plain management. Under this concept, the area of the 100-year flood plain is divided into a floodway and a floodway fringe. The floodway is the channel of a stream, plus any adjacent flood plain areas that must be kept free of encroachment so that the 100-year flood can be carried without substantial increases in flood heights. Minimum Federal standards limit such increases to 1.0 foot, provided that hazardous velocities are not produced.

The floodways presented for this study were computed on the basis of equal conveyance reduction from each side of the flood plain. The results of these computations were tabulated at selected cross sections for each stream segment for which a floodway was computed and are presented in Table 2, Floodway Data.

As shown on the Flood Boundary and Floodway Map, the floodway boundaries were computed at cross sections. Between cross sections, the boundaries were interpolated. In cases where the floodway and the 100-year flood plain boundaries are either close together or col-linear, only the floodway boundary has been shown.

The area between the floodway and 100-year flood plain boundaries is termed the floodway fringe. The floodway fringe thus encompasses the portion of the flood plain that could be completely obstructed without increasing the water-surface elevation of the 100-year flood more than 1.0 foot at any point. Typical relationships between the floodway and the floodway fringe and their significance to flood plain development are shown in figure 2.

The floodways in this study are presented to local agencies as minimum standards that can be adopted directly or that can be used as a basis for additional floodway studies.

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH ² (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE
A	69560	490	10716	3.7	1003.9	1003.9	1003.9	0.0
B	70730	350	7080	5.5	1004.1	1004.1	1004.2	0.1
C	72800	400	7441	5.4	1005.5	1005.5	1005.8	0.3
D	74040	525	8433	4.5	1006.6	1006.6	1007.0	0.4
E	75650	450	8360	4.6	1007.8	1007.8	1008.3	0.5
F	78610	450	8436	4.5	1009.7	1009.7	1010.3	0.6
G	79530	330	6317	6.0	1010.1	1010.1	1010.8	0.7
H	80550	400	7311	5.2	1011.0	1011.0	1011.8	0.8
I	81970	340	6102	6.3	1012.4	1012.4	1013.0	0.6
J	82420	340	6675	5.7	1012.8	1012.8	1013.4	0.6
K	82785	440	8585	4.4	1013.6	1013.6	1014.2	0.6
L	83210	500	9334	3.4	1014.0	1014.0	1014.6	0.6
M	83840	300	6077	5.3	1014.1	1014.1	1014.7	0.6
N	85640	820	8971	3.6	1015.3	1015.3	1015.9	0.5
O	90000	385	6751	4.7	1017.3	1017.3	1017.9	0.6
P	92570	760	7117	4.5	1018.6	1018.6	1019.2	0.6
Q	95800	325	7452	4.3	1020.2	1020.2	1021.0	0.8
R	98120	300	6986	4.6	1021.1	1021.1	1021.9	0.8
S	102830	350	5972	4.5	1023.4	1023.4	1024.0	0.6
T	104730	310	7032	3.8	1024.7	1024.7	1025.2	0.5
U	105610	260	6042	4.5	1025.0	1025.0	1025.5	0.5
V	109600	315	6477	4.2	1026.7	1026.7	1027.2	0.5
W	113600	275	5903	4.6	1028.5	1028.5	1029.2	0.7
X	115970	250	5398	5.0	1029.5	1029.5	1030.3	0.8
Y	121140	450/150	7151	3.8	1031.9	1031.9	1032.6	0.7
Z	123375	300/0	4774	5.3	1033.1	1033.1	1033.7	0.6

¹/ DISTANCE ABOVE ROYAL DAM IN FEET ²/ TOTAL WIDTH/WIDTH WITHIN STUDY

DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
Federal Insurance Administration

CITY OF MORGANTON
(BURKE COUNTY, N. C.)

FLOODWAY DATA

CATAWBA RIVER

TABLE 2-1

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT ² FLOODWAY (FEET NGVD)	WITH ² FLOODWAY (FEET NGVD)	INCREASE
A	130	120	809	5.0	1023.3	1011.5	1012.2	0.7
R	330	105	766	5.3	1023.3	1012.2	1013.0	0.8
C	950	90	682	5.9	1023.3	1014.9	1015.2	0.3
D	1340	150	840	4.8	1023.3	1016.6	1016.8	0.2
E	2000	250	1520	2.7	1023.3	1018.3	1018.7	0.4
F	3260	250	1530	2.6	1023.3	1019.6	1020.4	0.8
G	4125	300	1614	2.5	1023.3	1020.6	1021.5	0.9
H	5000	250	1199	3.4	1023.3	1022.5	1023.3	0.8
I	5700	105	562	7.2	1025.4	1025.4	1025.8	0.4
J	5850	75	441	9.1	1026.4	1026.4	1026.6	0.2
K	6150	100	913	4.3	1029.8	1029.8	1029.8	0.0
L	7065	100	760	5.1	1031.1	1031.1	1031.6	0.5
M	7710	165	991	3.9	1033.6	1033.6	1034.0	0.4
N	9000	400	2519	1.6	1035.0	1035.0	1035.9	0.9
O	10240	360	1753	2.2	1035.8	1035.8	1036.8	1.0
P	11510	465	1649	2.3	1038.3	1038.3	1039.1	0.8

1/ DISTANCE FROM MOUTH IN FEET

2/ ELEVATIONS SHOWN WITHOUT CONSIDERATION OF BACKWATER FROM CATAWBA RIVER

DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
Federal Insurance Administration

FLOODWAY DATA

CITY OF MORGANTON
(BURKE COUNTY, N. C.)

CANOE CREEK

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FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH ³ (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT ² FLOODWAY (FEET NGVD)	WITH ² FLOODWAY (FEET NGVD)	INCREASE
A	300	540	5375	2.3	1013.8	1005.4	1006.1	0.7
B	870	720	4363	2.8	1013.8	1005.8	1006.5	0.7
C	3710	800	7188	1.7	1013.8	1007.9	1008.8	0.9
D	4440	800	6149	2.0	1013.8	1008.3	1009.2	0.9
E	6000	880	6245	1.9	1013.8	1009.4	1010.2	0.8
F	6540	830	5427	2.2	1013.8	1009.8	1010.5	0.7
G	7000	750	6767	1.8	1013.8	1010.2	1011.0	0.8
H	8370	680/0	6442	1.9	1013.8	1010.9	1011.7	0.8
I	9460	770/0	5144	2.4	1013.8	1011.6	1012.4	0.8

1/ DISTANCE FROM MOUTH IN FEET 2/ ELEVATIONS SHOWN WITHOUT CONSIDERATION OF BACKWATER FROM CATAWBA RIVER
3/ TOTAL WIDTH/WIDTH WITHIN STUDY

DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
Federal Insurance Administration
CITY OF MORGANTON
(BURKE COUNTY, N. C.)

FLOODWAY DATA

WARRIOR FORK

FLOODING SOURCE	DISTANCE ¹	WIDTH ³ (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	BASE FLOOD WATER SURFACE ELEVATION			
					REGULATORY	WITHOUT ² FLOODWAY (FEET NGVD)	WITH ² FLOODWAY	INCREASE
A	1540	100	582	3.2	1013.8	1008.2	1008.9	0.7
B	2100	90	440	4.3	1013.8	1009.8	1010.4	0.6
C	2320	140	704	2.7	1013.8	1010.6	1011.2	0.6
D	2600	100	467	4.0	1013.8	1011.0	1011.7	0.7
E	3550	100	536	3.5	1016.9	1016.9	1017.0	0.1
F	3930	80	378	5.0	1018.5	1018.5	1018.8	0.3
G	4480	110	421	3.0	1021.1	1021.1	1021.5	0.4
H	5500	60	345	5.5	1024.7	1024.7	1025.6	0.9
I	6940	160	713	2.3	1032.1	1032.1	1032.8	0.7
J	7510	150	658	2.5	1033.1	1033.1	1033.9	0.8
K	7590	130	566	3.0	1033.5	1033.5	1034.3	0.8
L	7940	100	423	4.0	1034.5	1034.5	1035.1	0.6
M	8190	110	453	3.7	1035.9	1035.9	1036.4	0.5
N	8500	120	515	3.3	1037.0	1037.0	1037.7	0.7
O	9300	50	224	7.5	1040.8	1040.8	1041.7	0.9
P	9670	80	501	3.3	1045.0	1045.0	1045.0	0.0
Q	10000	80	441	3.8	1046.0	1046.0	1046.2	0.2
R	11225	60	321	5.2	1052.7	1052.7	1053.5	0.8
S	11630	60	403	3.5	1056.0	1056.0	1056.9	0.9
T	12050	55	323	4.3	1057.4	1057.4	1058.2	0.8
U	12620	45	223	6.3	1060.6	1060.6	1061.3	0.7
V	13160	70	358	3.9	1064.2	1064.2	1065.1	0.9
W	13665	60	247	5.1	1066.7	1066.7	1067.6	0.9
X	14360	60/40	282	4.4	1071.7	1071.7	1072.3	0.6
Y	15000	60/50	246	5.1	1075.3	1075.3	1076.2	0.9
Z	15570	60/40	229	5.5	1080.2	1080.2	1080.4	0.2
AA	16000	60/0	209	4.9	1083.5	1083.5	1083.7	0.2

1/ DISTANCE FROM MOUTH IN FEET 2/ ELEVATIONS SHOWN WITHOUT CONSIDERATION OF BACKWATER FROM CATARAUGUS RIVER
 3/ TOTAL WIDTH/WIDTH WITHIN STUDY

DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
 Federal Insurance Administration
 CITY OF MORGANTON
 (BURKE COUNTY, N. C.)

FLOODWAY DATA

WILSON CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY FLOODWAY (FEET NGVD)	WITHOUT ² FLOODWAY	WITH ² FLOODWAY	INCREASE
A	380	160	1044	5.4	1005.7	999.2	999.7	0.5
B	900	140	1708	3.3	1005.7	1005.2	1005.2	0.0
C	1800	200	1815	3.1	1006.0	1006.0	1006.4	0.4
D	2370	105	1093	5.2	1006.4	1006.4	1006.9	0.5
E	3700	90	827	6.8	1009.6	1009.6	1010.3	0.7
F	4500	90	811	7.0	1013.5	1013.5	1013.9	0.4
G	5250	80	990	5.7	1016.3	1016.3	1016.9	0.6
H	6590	95	1120	5.0	1019.5	1019.5	1020.1	0.6
I	7270	70	764	7.2	1021.0	1021.0	1021.7	0.7
J	8640	90	1132	4.9	1025.9	1025.9	1026.1	0.2
K	9960	100	1221	4.5	1028.5	1028.5	1029.0	0.5
L	11430	110	1292	4.3	1031.0	1031.0	1031.6	0.6
M	11830	116	1105	5.0	1031.7	1031.7	1032.3	0.6
N	12060	220	2283	2.4	1032.2	1032.2	1033.2	1.0
O	12900	315	3344	1.6	1032.7	1032.7	1033.7	1.0
P	13900	310	3046	1.7	1033.0	1033.0	1034.0	1.0
Q	15340	100	880	6.0	1034.4	1034.4	1035.1	0.7
R	15885	78	815	6.5	1035.8	1035.8	1036.3	0.5
S	16321	86	879	6.0	1037.3	1037.3	1037.6	0.3
T	16530	90	759	6.5	1037.9	1037.9	1038.1	0.2
U	16930	80	815	6.1	1039.2	1039.2	1039.2	0.0
V	17420	60	588	8.4	1040.2	1040.2	1040.5	0.3
W	17710	125	1052	4.7	1042.6	1042.6	1042.8	0.2
X	18300	170	1581	2.2	1043.7	1043.7	1043.9	0.2
Y	18890	170	1416	2.4	1044.0	1044.0	1044.3	0.3
Z	19710	135	973	3.6	1044.9	1044.9	1045.4	0.5
AA	21050	100	862	3.9	1047.1	1047.1	1047.7	0.6

1/ DISTANCE FROM MOUTH IN FEET 2/ ELEVATIONS SHOWN WITHOUT CONSIDERATION OF BACKWATER FROM CATAWBA RIVER

DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
Federal Insurance Administration

CITY OF MORGANTON
(BURKE COUNTY, N. C.)

FLOODWAY DATA

HUNTING CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE	WIDTH ² (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE
AB	21700	150	849	3.9	1049.4	1049.4	1049.8	0.4
AC	22160	170	670	5.0	1049.9	1049.9	1050.4	0.5
AD	22870	170	1026	3.2	1051.0	1051.0	1051.5	0.5
AE	23820	110	705	4.6	1052.4	1052.4	1053.0	0.6
AF	24650	50	427	7.5	1055.0	1055.0	1055.4	0.4
AG	25840	50	328	9.7	1059.2	1059.2	1059.2	0.0
AH	26105	48	357	9.0	1061.1	1061.1	1061.2	0.1
AI	26295	135	1220	2.6	1063.1	1063.1	1063.1	0.0
AJ	27720	200	1295	2.4	1064.1	1064.1	1064.6	0.5
AK	28410	130	720	4.2	1066.6	1066.6	1066.9	0.3
AL	30070	120	737	4.2	1069.9	1069.9	1070.0	0.1
AM	31060	70	476	6.2	1072.4	1072.4	1072.6	0.2
AN	32610	160	990	3.0	1076.2	1076.2	1076.4	0.2
AO	33625	140	699	4.1	1077.9	1077.9	1078.2	0.3
AP	34930	100	813	2.9	1082.2	1082.2	1082.9	0.7
AQ	36620	100	544	4.3	1084.4	1084.4	1084.9	0.5
AR	38400	85	467	5.0	1089.4	1089.4	1089.8	0.4
AS	40125	125	742	3.1	1096.0	1096.0	1096.8	0.8
AT	41405	160	690	3.3	1098.8	1098.8	1099.2	0.4
AU	42770	110/60	415	5.5	1102.5	1102.5	1103.1	0.6
AV	43350	82/30	389	5.9	1105.2	1105.2	1105.4	0.2

1/ DISTANCE FROM MOUTH IN FEET 2/ TOTAL WIDTH/WIDTH WITHIN STUDY

FLOODWAY DATA

DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
Federal Insurance Administration

CITY OF MORGANTON
(BURKE COUNTY, N. C.)

HUNTING CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	¹ DISTANCE	³ WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT ² FLOODWAY (FEET NGVD)	WITH ² FLOODWAY	INCREASE
A	420	175	622	2.3	1032.3	1026.2	1026.8	0.6
B	1150	170	528	2.7	1032.5	1029.3	1030.3	1.0
C	1590	155	444	3.2	1032.6	1032.5	1033.2	0.7
D	2000	145	512	2.6	1035.0	1035.0	1035.6	0.6
E	2400	145	480	2.7	1036.9	1036.9	1037.4	0.5
F	2860	140	463	2.8	1039.0	1039.0	1039.8	0.8
G	3200	130	450	2.9	1041.7	1041.7	1042.1	0.4
H	3850	120/110	438	2.7	1044.4	1044.4	1045.1	0.7

1/ DISTANCE FROM MOUTH IN FEET 2/ ELEVATIONS SHOWN WITHOUT CONSIDERATION OF BACKWATER FROM HUNTING CREEK
3/ TOTAL WIDTH/WIDTH WITHIN STUDY

DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
Federal Insurance Administration

FLOODWAY DATA

CITY OF MORGANTON
(BURKE COUNTY, N. C.)

HUNTING CREEK TRIBUTARY 1

TABLE
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FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET) ²	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE
A	300	50	418	4.2	1039.5	1039.5	1040.0	0.5
B	800	100	814	2.2	1040.6	1040.6	1041.2	0.6
C	2000	125	579	3.1	1042.7	1042.7	1043.6	0.9
D	3170	130	529	2.5	1046.7	1046.7	1047.7	1.0
E	4520	64	182	7.4	1054.9	1054.9	1055.3	0.4
F	5500	80	368	3.6	1063.6	1063.6	1063.7	0.1
G	6400	80	264	5.1	1068.3	1068.3	1068.6	0.3
H	6800	70	258	5.2	1071.6	1071.6	1071.7	0.1
I	7200	80	181	7.4	1076.1	1076.1	1076.1	0.0
J	7500	75	204	6.6	1083.1	1083.1	1083.1	0.0
K	7750	44	130	10.3	1090.6	1090.6	1090.6	0.0
L	7960	32	120	11.0	1103.9	1103.9	1103.9	0.0
M	8700	50	288	4.6	1113.7	1113.7	1114.1	0.4
N	9500	43/20	175	7.5	1119.8	1119.8	1120.2	0.4
O	10200	54/25	186	7.1	1129.9	1129.9	1129.9	0.0
P	10850	50/25	211	6.2	1138.2	1138.2	1138.5	0.3
Q	11700	65/45	311	4.2	1146.4	1146.4	1147.0	0.6
R	12470	70/40	230	5.6	1153.4	1153.4	1154.2	0.8
S	12720	75/55	311	4.2	1156.8	1156.8	1157.7	0.9

1/ DISTANCE FROM MOUTH IN FEET 2/ TOTAL WIDTH/WIDTH WITHIN STUDY

TABLE 2-8

DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
Federal Insurance Administration

CITY OF MORGANTON
(BURKE COUNTY, N. C.)

FLOODWAY DATA

SANDY RUN

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE 1	WIDTH (FEET) 2	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)		INCREASE
						WITH FLOODWAY		
A	520	200	1665	2.0	1044.2	1044.2	1045.2	1.0
B	1250	205	1377	2.4	1045.1	1045.1	1046.0	0.9
C	1660	410	3476	1.0	1045.4	1045.4	1046.3	0.9
D	2750	130	689	4.8	1045.4	1045.4	1046.4	1.0
E	3010	80	568	4.8	1047.2	1047.2	1047.7	0.5
F	3475	220	1144	2.4	1048.4	1048.4	1048.9	0.5
G	3780	310	1672	1.6	1048.7	1048.7	1049.2	0.5
H	4620	260	793	3.5	1049.6	1049.6	1050.3	0.7
I	5880	160	1064	2.4	1053.5	1053.5	1054.1	0.6
J	6690	100	545	4.8	1055.8	1055.8	1056.2	0.4
K	8000	125	796	3.2	1059.9	1059.9	1060.5	0.6
L	8465	140	847	3.0	1061.5	1061.5	1061.9	0.4
M	9310	120	609	4.1	1063.4	1063.4	1064.3	0.9
N	9645	100	525	4.8	1065.0	1065.0	1065.8	0.8
O	9970	68	575	4.4	1066.6	1066.6	1067.0	0.4
P	10915	75	552	4.4	1069.9	1069.9	1070.1	0.2
Q	11700	100	589	4.1	1071.6	1071.6	1072.6	1.0
R	12240	90	658	3.7	1074.3	1074.3	1075.0	0.7
S	13150	80	471	5.1	1077.5	1077.5	1077.9	0.4
T	14150	80	455	5.3	1082.0	1082.0	1082.2	0.2
U	15960	75/35	408	4.0	1088.7	1088.7	1089.4	0.7
V	16900	80/70	323	5.1	1093.4	1093.4	1093.5	0.1
W	17600	245/230	790	1.8	1096.0	1096.0	1096.2	0.2
X	18240	275/260	498	2.9	1098.1	1098.1	1098.1	0.0
Y	18810	335/315	572	2.5	1101.8	1101.8	1101.8	0.0
Z	19110	150/135	282	5.0	1104.3	1104.3	1104.6	0.3
AA	19725	71/0	263	5.3	1108.7	1108.7	1109.7	1.0

1/ DISTANCE FROM MOUTH IN FEET 2/ TOTAL WIDTH/WIDTH WITHIN STUDY

TABLE 2-9

DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
Federal Insurance Administration

CITY OF MORGANTON
(BURKE COUNTY, N. C.)

FLOODWAY DATA

EAST PRONG

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT ² FLOODWAY	WITH ² FLOODWAY	INCREASE
						(FEET NGVD)		
A	150	65	264	5.7	1047.4	1044.1	1044.4	0.3
B	590	100	416	3.6	1047.9	1047.3	1047.5	0.2
C	1520	90	585	2.6	1049.8	1049.8	1050.3	0.5
D	2130	70	320	4.7	1051.5	1051.5	1052.2	0.7
E	2940	60	376	3.7	1055.7	1055.7	1056.1	0.4
F	3625	60	334	4.2	1057.7	1057.7	1058.4	0.7
G	4550	60	325	4.3	1061.5	1061.5	1062.1	0.6
H	5150	90	385	3.4	1064.3	1064.3	1065.1	0.8
I	5870	70	304	4.3	1067.4	1067.4	1068.4	1.0
J	6730	50	250	5.3	1073.9	1073.9	1074.0	0.1
K	7160	50	306	4.1	1077.7	1077.7	1077.9	0.2
L	7930	50	235	5.3	1081.3	1081.3	1082.0	0.7
M	8550	50	253	4.7	1086.1	1086.1	1086.7	0.6
N	9690	50	234	5.1	1092.2	1092.2	1092.8	0.6
O	10140	50	336	3.6	1096.8	1096.8	1097.0	0.2
P	10810	90	485	2.5	1099.5	1099.5	1100.1	0.6
Q	11500	90	278	4.0	1101.0	1101.0	1101.8	0.8
R	12170	60	250	4.5	1104.3	1104.3	1105.2	0.9
S	13000	50	266	4.1	1108.4	1108.4	1109.1	0.7
T	13950	60	307	3.5	1112.4	1112.4	1113.2	0.8
U	14900	50	228	4.6	1117.2	1117.2	1118.1	0.9
V	15680	50	245	4.3	1123.1	1123.1	1123.6	0.5

1/ DISTANCE FROM MOUTH IN FEET 2/ ELEVATIONS SHOWN WITHOUT CONSIDERATION OF BACKWATER FROM EAST PRONG CREEK

TABLE
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DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
Federal Insurance Administration

CITY OF MORGANTON
(BURKE COUNTY, N. C.)

FLOODWAY DATA

FIDDLERS RUN

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH ³ (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY FLOODWAY	WITHOUT ² FLOODWAY (FEET NGVD)	WITH ² FLOODWAY (FEET NGVD)	INCREASE
A	320	170	1644	5.9	1022.2	1016.5	1017.2	0.7
B	1220	320	2731	3.6	1022.2	1018.6	1019.1	0.5
C	2080	210	2482	3.9	1022.2	1019.3	1020.0	0.7
D	2150	230	2709	3.5	1022.2	1019.4	1020.2	0.8
E	3300	330	3974	2.4	1022.2	1020.4	1021.1	0.7
F	4050	325	3899	2.4	1022.2	1020.8	1021.5	0.7
G	4700	325	3714	2.6	1022.2	1021.1	1021.9	0.8
H	5540	220	2229	4.3	1022.2	1021.8	1022.8	1.0
I	5695	145	1672	5.7	1022.2	1022.0	1023.0	1.0
J	5860	245	2897	3.3	1023.0	1023.0	1023.8	0.8
K	6110	540	5666	1.6	1023.4	1023.4	1024.2	0.8
L	7600	825	6699	1.2	1023.8	1023.8	1024.7	0.9
M	9430	600	4450	1.8	1024.3	1024.3	1025.3	1.0
N	9870	465	3302	2.5	1024.5	1024.5	1025.5	1.0
O	10630	580	3495	2.2	1025.5	1025.5	1026.4	0.9
P	11520	480	2716	2.8	1026.8	1026.8	1027.7	0.9
Q	12185	375	2442	3.1	1028.3	1028.3	1029.1	0.8
R	12475	300	2008	3.8	1029.1	1029.1	1029.8	0.7
S	13460	300	2522	3.0	1031.4	1031.4	1032.1	0.7
T	14640	230	2157	3.5	1033.2	1033.2	1034.1	0.9
U	15090	220	2110	3.6	1034.2	1034.2	1034.8	0.6
V	15800	280	2659	2.8	1035.0	1035.0	1035.8	0.8
W	17750	300/180	3081	2.4	1036.5	1036.5	1037.5	1.0
X	17935	220/120	2268	3.3	1036.6	1036.6	1037.6	1.0
Y	18640	140/90	1484	5.0	1037.5	1037.5	1038.4	0.9
Z	20490	150/60	1590	4.7	1041.7	1041.7	1042.2	0.5
AA	22095	300/250	2116	3.5	1044.3	1044.3	1045.0	0.7

1/ DISTANCE FROM MOUTH IN FEET 2/ ELEVATIONS SHOWN WITHOUT CONSIDERATION OF BACKWATER FROM CATAWBA RIVER

3/ TOTAL WIDTH/WIDTH WITHIN STUDY

DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT

Federal Insurance Administration

CITY OF MORGANTON

(BURKE COUNTY, N. C.)

FLOODWAY DATA

SILVER CREEK

TABLE 2-11

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE	WIDTH ² (FEET)	SECTION AREA (SQARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE
AB	23325	580/0	3063	2.4	1045.9	1045.9	1046.8	0.9

1/ DISTANCE FROM MOUTH IN FEET 2/ TOTAL WILTH/WIDTH WITHIN STUDY

TABLE 2-12

DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
Federal Insurance Administration

CITY OF MORGANTON
(BURKE COUNTY, N. C.)

FLOODWAY DATA

SILVER CREEK

FLOODING SOURCE	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	BASE FLOOD WATER SURFACE ELEVATION			INCREASE
					REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY (FEET NGVD)	
A	240	300	699	3.4	1024.7	1021.1	1021.8	0.7
B	566	255	1030	2.3	1024.7	1022.4	1023.2	0.8
C	1170	160	553	4.3	1024.8	1024.8	1025.1	0.3
D	1540	85	538	4.4	1029.2	1029.2	1029.2	0.0
E	1600	115	678	3.5	1029.5	1029.5	1029.6	0.1
F	2860	200	846	2.8	1032.8	1032.8	1033.5	0.7
G	4750	100	597	3.7	1039.5	1039.5	1040.2	0.7
H	5305	130	783	2.8	1041.6	1041.6	1042.2	0.6
I	6940	130	734	3.0	1046.1	1046.1	1046.9	0.8
J	7610	110	527	4.2	1048.6	1048.6	1049.5	0.9
K	7860	90	512	4.3	1050.3	1050.3	1051.1	0.8
L	8480	70	447	4.9	1054.1	1054.1	1054.9	0.8
M	9215	135	844	2.6	1057.8	1057.8	1058.5	0.7
N	9385	105	661	3.1	1058.3	1058.3	1059.0	0.7
O	9505	130	839	2.5	1058.7	1058.7	1059.4	0.7
P	10310	200	954	2.2	1060.0	1060.0	1060.8	0.8
Q	11460	160	666	2.7	1064.1	1064.1	1064.7	0.6
R	13200	120	600	3.0	1071.0	1071.0	1071.8	0.8
S	14000	60	361	5.0	1074.5	1074.5	1075.2	0.7
T	14450	170	829	2.0	1076.3	1076.3	1077.0	0.7
U	15520	180	736	2.3	1078.3	1078.3	1079.1	0.8
V	15850	210	815	2.1	1082.2	1082.2	1082.4	0.2
W	15950	210	864	1.9	1082.3	1082.3	1082.6	0.3
X	16670	180	592	2.8	1083.9	1083.9	1084.7	0.8
Y	17150	150	475	3.5	1086.8	1086.8	1087.5	0.7
Z	17740	90	455	3.4	1092.6	1092.6	1093.0	0.4
AA	17825	85	389	4.0	1093.1	1093.1	1093.6	0.5

1/ DISTANCE FROM MOUTH IN FEET 2/ ELEVATIONS SHOWN WITHOUT CONSIDERATION OF BACKWATER FROM SILVER CREEK

DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
Federal Insurance Administration

FLOODWAY DATA

CITY OF MORGANTON
(BURKE COUNTY, N. C.)

LITTLE SILVER CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH ² (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE
AB	17910	65	287	5.4	1093.8	1093.8	1094.1	0.3
AC	18030	70	372	4.1	1095.3	1095.3	1095.6	0.3
AD	18655	50	323	4.8	1099.0	1099.0	1099.5	0.5
AE	19740	135	529	2.9	1105.2	1105.2	1105.7	0.5
AF	20810	180	578	2.5	1110.7	1110.7	1111.6	0.9
AG	21685	100/0	385	3.8	1116.3	1116.3	1117.1	0.8
AH	21780	85/0	361	4.0	1117.0	1117.0	1117.9	0.9
AI	22085	60/0	320	4.5	1119.9	1119.9	1120.3	0.4
AJ	22620	100/0	573	2.4	1122.3	1122.3	1123.1	0.8

1/ DISTANCE FROM MOUTH IN FEET

2/ TOTAL WIDTH/WIDTH WITHIN STUDY

DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
Federal Insurance Administration

FLOODWAY DATA

CITY OF MORGANTON
(BURKE COUNTY, N. C.)

LITTLE SILVER CREEK

TABLE 2-14

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH ³ (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT ² FLOODWAY (FEET NGVD)	WITH ² FLOODWAY	INCREASE
A	1300	150	649	5.2	1023.5	1018.6	1019.3	0.7
B	1990	100	687	5.0	1023.5	1022.7	1023.0	0.3
C	2800	100	711	4.8	1024.4	1024.4	1025.1	0.7
D	3475	100	654	4.6	1026.2	1026.2	1026.6	0.4
E	3605	150	956	3.1	1026.8	1026.8	1027.3	0.5
F	4000	125	697	4.3	1028.0	1028.0	1028.5	0.5
G	4170	100	713	4.2	1028.6	1028.6	1029.1	0.5
H	4450	150	957	3.1	1030.5	1030.5	1030.7	0.2
I	5140	300	1976	1.5	1031.0	1031.0	1031.6	0.6
J	6000	250	1415	2.1	1031.5	1031.5	1032.3	0.8
K	7000	180	1056	2.8	1033.2	1033.2	1034.1	0.9
L	9000	190/0	950	3.0	1039.0	1039.0	1039.6	0.6
M	9900	220/0	1024	2.8	1041.4	1041.4	1042.1	0.7
N	10270	130/0	605	4.7	1042.5	1042.5	1043.4	0.9
O	10460	130/0	933	2.8	1043.8	1043.8	1044.5	0.7

1/ DISTANCE FROM MOUTH IN FEET

2/ ELEVATIONS SHOWN WITHOUT CONSIDERATION OF BACKWATER FROM SILVER CREEK

3/ TOTAL WIDTH/WIDTH WITHIN STUDY

DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT

Federal Insurance Administration

CITY OF MORGANTON

(BURKE COUNTY, N. C.)

FLOODWAY DATA

BAILY FORK

TABLE 2-15