

12-27-88

12:02:23

PAGE 1

THIS RUN EXECUTED 12-27-88 12:02:23

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

HARRELL

SWAMP

THIS RUN EXECUTED 12-28-88 15:57:50

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

C  
 T1 Hayes, Seby, Mattern & Mattern Gates Co. NC FIS.  
 T2 Filename:MS.HEC Eng:EKL EI:CJB Comm. No. 2353C  
 T3 Harrell Swamp Date: 12/28/88 10-Year Event

J1	ICHECK	INO	NIWV	IDIR	STRT	METRIC	HVINS	D	WSEL	FO
0.	2.	0.	0.	.000750	.00	.0	0.	20.000	.000	.000

J2	NPROF	IPLT	PRFS	XSECV	XSECH	FN	ALLDC	IBW	CHNJM	ITRACE
1.000	.000	-1.000	.000	.000	.000	.000	.000	.000	.000	.000

J3 VARIABLE CODES FOR SUMMARY PRINTOUT

150.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
NC	.150	.070	.100	.300	.000	.000	.000	.000	.000	.000
NH	7.000	4057.000	.350	4470.000	.270	4790.000	.175	4984.000	.075	.000
NH	5016.000	.170	5200.000	1.000	5834.000	.000	.000	.000	.000	.000
QT	5.000	1856.000	3411.000	4263.000	7134.000	4263.000	10.410	.000	.000	.000
ET	.000	.000	.000	.000	.000	10.410	.000	.000	.000	.000
X1	10.000	23.000	4984.000	5016.000	10.000	10.000	10.000	.000	.000	.000
GR	22.000	4046.000	20.000	4057.000	18.000	4069.000	16.000	4081.000	14.000	4092.000
GR	13.720	4470.000	13.600	4632.000	13.310	4790.000	13.400	4984.000	12.100	4989.000
GR	11.800	4994.000	12.000	5009.000	13.450	5014.000	13.400	5016.000	13.380	5200.000
GR	13.310	5485.000	14.000	5710.000	16.000	5731.000	18.000	5751.000	20.000	5771.000
GR	22.000	5791.000	24.000	5807.000	25.990	5834.000	.000	.000	.000	.000
NH	7.000	1.000	4055.000	.350	4465.000	.270	4790.000	.175	4952.000	.075
NH	5038.000	.170	5088.000	100.000	5459.000	.000	.000	.000	.000	.000

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 HEC-2 Input file created with CodeH2  
 Version: 3.49  
 CodeH2 Copyrighted 1986, 1987, 1988  
 Run Date: Wednesday December 28, 1988  
 Run Time: 15:57:47  
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Cross Section A

X1	1338.000	40.000	4952.000	5038.000	1328.000	1328.000	1328.000	1328.000	.000	.000	3850.000
GR	25.000	3786.000	24.000	3808.000	22.000	3823.000	20.000	20.000	3838.000	18.000	3850.000
GR	16.000	3660.000	14.000	3680.000	13.900	3910.000	13.900	13.900	4055.000	13.900	4200.000
GR	13.800	4465.000	14.000	4567.000	14.000	4647.000	13.750	13.750	4790.000	13.700	4817.000
GR	13.700	4952.000	13.600	4984.000	12.300	4989.000	12.000	12.000	4994.000	12.200	5009.000
GR	13.650	5014.000	13.600	5016.000	13.700	5038.000	14.000	14.000	5048.000	16.000	5058.000
GR	18.000	5068.000	20.000	5080.000	21.000	5088.000	20.000	20.000	5103.000	18.000	5120.000
GR	16.000	5140.000	14.000	5160.000	13.400	5178.000	14.000	14.000	5195.000	16.000	5232.000
GR	18.000	5252.000	19.000	5262.000	20.000	5302.000	22.000	22.000	5384.000	22.800	5459.000
HC	.000	.000	.000	.300	.500	.000	.000	.000	.000	.000	.000
HH	8.000	1.000	4230.000	350	4650.000	.270	4897.900	4897.900	.175	4924.500	.070
NH	5058.100	.170	5180.000	.300	5467.000	1.000	5852.000	5852.000	.000	.000	.000
X1	2259.000	64.000	4924.500	5058.100	921.000	921.000	921.000	921.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	.000	23.070	23.090	.000
GR	26.000	3349.900	20.000	3509.000	18.000	3564.000	16.000	16.000	3602.000	15.930	3640.000
GR	15.100	4082.000	15.120	4230.000	15.160	4650.000	15.180	15.180	4815.000	15.190	4897.900
GR	15.900	4922.890	15.900	4922.900	15.900	4922.910	15.940	15.940	4924.500	15.940	4924.510
GR	16.140	4931.400	14.340	4944.400	14.240	4947.900	14.100	14.100	4952.900	13.650	4963.100
GR	13.430	4964.400	13.190	4968.500	13.190	4968.510	13.160	13.160	4969.000	13.040	4969.500
GR	13.040	4969.510	12.220	4972.900	9.560	4983.900	8.770	8.770	4997.900	8.710	4998.900
GR	11.240	5013.500	11.250	5013.510	11.330	5013.990	11.330	11.330	5014.000	11.340	5014.500
GR	11.340	5014.510	11.580	5028.400	13.430	5034.800	13.570	13.570	5036.900	14.080	5043.900
GR	14.740	5047.100	17.710	5052.100	17.620	5057.100	17.620	17.620	5058.100	17.620	5058.100
GR	17.390	5040.090	17.380	5060.100	17.380	5060.110	16.460	16.460	5067.900	17.570	5084.900
GR	16.800	5180.000	16.630	5200.000	16.000	5278.000	16.000	16.000	5306.000	16.000	5337.000
GR	18.000	5439.000	20.000	5467.000	22.000	5477.000	22.530	22.530	5485.000	24.000	5507.000
GR	25.000	5575.000	25.010	5577.000	25.370	5677.000	26.000	26.000	5852.000	.000	.000
SB	1.250	1.730	2.600	.000	80.160	.970	840.300	840.300	.010	8.710	8.710
HH	8.000	1.000	4230.000	.350	4650.000	.270	4897.900	4897.900	.175	4924.500	.070
NH	5058.100	.170	5180.000	.300	5467.000	1.000	5852.000	5852.000	.000	.000	.000
X1	2296.000	64.000	4924.500	5058.100	37.000	37.000	37.000	37.000	.000	.000	.000
X2	10.000	.000	1.000	19.310	23.070	.000	.000	.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	.000	23.070	23.090	.000
BT	64.000	3349.900	26.020	26.000	3509.000	26.000	20.000	20.000	3534.000	26.000	18.000
BT	.000	3602.000	26.000	16.000	3640.000	26.000	15.930	15.930	4082.000	25.250	15.100
BT	.000	4230.000	25.000	15.120	4650.000	24.280	15.160	15.160	4815.000	24.000	15.180
BT	.000	4897.900	23.070	15.190	4922.890	23.110	15.900	15.900	4922.900	25.310	15.940
BT	.000	4922.910	25.310	15.900	4924.500	25.310	15.940	15.940	4924.510	25.310	19.310
BT	.000	4931.400	25.310	19.310	4944.400	25.310	19.310	19.310	4947.900	25.310	19.310
BT	.000	4952.900	25.310	19.310	4963.100	25.300	19.300	19.300	4964.400	25.300	19.300
BT	.000	4968.500	25.300	19.300	4968.510	25.300	13.190	13.190	4969.000	25.300	13.160
BT	.000	4969.500	25.300	19.300	4969.510	25.300	19.300	19.300	4972.900	25.300	19.300
BT	.000	4983.900	25.300	19.300	4997.900	25.290	19.290	19.290	4998.900	25.290	19.290
BT	.000	5013.500	25.290	19.290	5013.510	25.290	11.250	11.250	5013.990	25.290	11.330
BT	.000	5014.000	25.290	11.330	5014.500	25.290	11.340	11.340	5014.510	25.290	19.290
BT	.000	5028.400	25.290	19.290	5034.800	25.290	19.290	19.290	5036.900	25.290	19.290
BT	.000	5043.900	25.290	19.290	5047.100	25.290	19.290	19.290	5052.100	25.290	19.290

US 158



## Cross Section C-1

X1	5793.000	20.000	4946.900	5053.100	710.000	710.000	710.000	.000	.000	.000
GR	26.250	4800.000	25.000	4851.000	24.000	4862.000	22.710	4880.000	22.000	4890.000
GR	20.000	4910.000	18.910	4946.900	18.610	4975.220	15.410	4985.840	12.610	5014.160
GR	15.210	5024.780	18.510	5042.480	19.510	5053.100	18.000	5065.000	18.550	5080.000
GR	20.000	5120.000	22.000	5155.000	24.000	5190.000	25.000	5210.000	32.800	5250.000
NH	7.000	1.000	4880.000	.300	4949.000	.180	4970.000	.075	5030.000	.190
NH	5030.000	.300	5073.000	1.000	5494.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	.000	.000	3.410	.000	.000	.000	.000

## Cross Section D

X1	6323.000	26.000	4970.000	5030.000	530.000	530.000	530.000	.000	.000	.000
GR	34.600	4599.000	32.900	4701.000	31.900	4811.000	28.290	4880.000	27.300	4899.000
GR	25.000	4924.000	24.000	4929.000	22.000	4949.000	20.000	4962.000	18.500	4970.000
GR	18.200	4986.000	15.000	4992.000	12.200	5008.000	14.800	5014.000	18.100	5024.000
GR	19.100	5030.000	19.500	5073.000	20.000	5066.000	20.300	5091.000	22.000	5109.000
GR	24.000	5134.000	25.000	5146.000	25.700	5161.000	28.900	5281.000	31.700	5379.000
GR	33.100	5494.000	.000	.000	.000	.000	.000	.000	.000	.000
NH	7.000	1.000	4880.000	.300	4955.000	.180	4974.500	.075	5025.500	.190
NH	5040.000	.300	5080.000	1.000	5360.000	.000	.000	.000	.000	.000

## Cross Section D-1A

X1	6711.000	20.000	4974.500	5025.500	388.000	388.000	388.000	.000	.000	.000
GR	26.250	4685.000	25.000	4760.000	24.000	4782.000	22.000	4802.000	20.000	4826.000
GR	19.830	4880.000	19.600	4955.000	19.540	4974.500	19.240	4988.100	16.040	4993.200
GR	14.240	5006.800	15.840	5011.900	19.140	5020.400	19.140	5025.500	20.000	5040.000
GR	20.820	5080.000	22.000	5138.000	24.000	5188.000	25.000	5210.000	32.800	5360.000
NH	7.000	1.000	4842.000	.300	4930.000	.170	4981.030	.065	5018.970	.150
NH	5055.000	.300	5150.000	1.000	5183.000	.000	.000	.000	.000	.000

## Cross Section D-1

X1	7248.000	18.000	4981.030	5018.970	537.000	537.000	537.000	.000	.000	.000
GR	32.800	4775.000	25.000	4825.000	24.000	4832.000	22.000	4842.000	20.530	4930.000
GR	20.000	4962.000	18.670	4981.030	17.250	4990.520	17.110	4998.650	17.070	5004.070
GR	17.240	5012.200	18.230	5018.970	20.000	5025.000	22.000	5040.000	24.000	5055.000
GR	25.000	5065.000	30.620	5150.000	32.800	5183.000	.000	.000	.000	.000
NH	6.000	1.000	4840.000	.300	4930.000	.170	4986.490	.065	5013.510	.150
NH	5051.000	.300	5117.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	.000	.000	10.410	.000	.000	.000	.000



Cross Section F-1

X1	10193.000	18.000	4995.000	5005.000	690.000	690.000	4995.000	5005.000	690.000	690.000	4995.000	5005.000	690.000	690.000	4995.000	5005.000	690.000	690.000	4995.000	5005.000	
GR	35.000	4828.000	34.630	4850.000	34.000	4828.000	32.000	4914.000	31.120	4925.000	35.000	4828.000	34.630	4850.000	34.000	4828.000	32.000	4914.000	31.120	4925.000	35.000
GR	30.000	4939.000	28.000	4969.000	27.190	4995.000	25.530	5000.000	25.530	5002.000	27.190	4995.000	25.530	5000.000	27.190	4995.000	25.530	5000.000	25.530	5002.000	27.190
GR	25.490	5004.500	27.050	5005.000	27.730	5100.000	28.000	5140.000	30.000	5148.000	28.000	5100.000	27.730	5005.000	27.050	5004.500	27.050	5005.000	30.000	5148.000	28.000
GR	32.000	5173.000	34.000	5188.000	35.000	5205.000	.000	.000	.000	.000	35.000	5173.000	34.000	5188.000	35.000	5205.000	.000	.000	.000	.000	

Cross Section G-1

MH	7.000	1.000	4850.000	1.000	4925.000	5285.000	1.000	4995.000	5005.000	5285.000	1.000	4995.000	5005.000	5285.000	1.000	4995.000	5005.000	5285.000	1.000	4995.000	5005.000
MH	5100.000	.300	5250.000	1.000	5285.000	5005.000	.300	5285.000	5005.000	5285.000	.300	5285.000	5005.000	5285.000	.300	5285.000	5005.000	5285.000	.300	5285.000	5005.000

Cross Section G

X1	11591.000	20.000	4995.000	5005.000	688.000	688.000	4995.000	5005.000	688.000	688.000	4995.000	5005.000	688.000	688.000	4995.000	5005.000	688.000	688.000	4995.000	5005.000	
GR	53.000	4853.000	44.100	4920.000	35.000	4942.000	34.000	4954.000	32.000	4954.000	35.000	4942.000	34.000	4954.000	35.000	4942.000	34.000	4954.000	32.000	4954.000	35.000
GR	30.000	4965.000	28.000	4973.000	28.860	4995.000	27.200	5000.000	27.030	5002.000	28.860	4995.000	27.200	5000.000	27.030	5002.000	28.860	4995.000	27.200	5000.000	27.030
GR	27.160	5004.500	28.750	5005.000	28.000	5028.000	30.000	5043.000	32.000	5058.000	28.000	5005.000	28.750	5004.500	28.750	5005.000	30.000	5043.000	32.000	5058.000	28.000
GR	34.000	5073.000	34.430	5120.000	35.000	5183.000	35.700	5228.000	36.300	5388.000	35.000	5120.000	34.430	5073.000	34.430	5120.000	35.000	5183.000	36.300	5388.000	35.000

MH	7.000	1.000	4840.000	1.000	4950.000	6925.000	1.000	4986.500	5013.500	6925.000	1.000	4986.500	5013.500	6925.000	1.000	4986.500	5013.500	6925.000	1.000	4986.500	5013.500
MH	5130.000	.300	5220.000	1.000	6925.000	5005.000	.300	6925.000	5005.000	6925.000	.300	6925.000	5005.000	6925.000	.300	6925.000	5005.000	6925.000	.300	6925.000	5005.000

X1	12259.000	54.000	4986.500	5013.500	108.000	108.000	108.000	108.000	108.000	108.000	32.000	32.620	.000
X3	10.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	37.730	2764.000	35.060	4018.000	34.790	34.130	4454.000	34.000	4454.000	34.000	34.000	4517.000	.000
GR	32.780	4636.000	32.000	4712.000	31.970	31.380	4840.000	31.000	4840.000	31.000	31.000	4920.000	.000
GR	31.410	4950.000	32.000	4966.500	31.640	31.610	4986.490	31.610	4986.500	31.610	31.610	4986.500	.000
GR	30.510	4990.000	10.310	4990.630	30.120	29.920	4991.880	29.920	4991.880	29.730	4992.500	4996.480	.000
GR	29.530	4993.130	29.340	4993.750	29.140	28.940	4995.000	28.480	4995.000	28.480	30.020	4996.480	.000
GR	28.690	4996.490	28.500	4996.500	29.010	29.510	4997.750	29.510	4997.750	30.020	4998.380	5000.500	.000
GR	30.120	4998.500	29.410	4999.000	28.530	27.650	5000.250	27.300	5000.250	27.300	5000.500	5005.000	.000
GR	27.250	5000.880	27.180	5001.500	27.060	26.950	5004.990	26.950	5004.990	26.950	5005.000	5046.500	.000
GR	27.060	5007.500	31.230	5013.490	31.290	31.750	5046.490	31.750	5046.500	31.750	5046.500	5220.000	.000
GR	32.000	5095.000	33.400	5130.000	34.000	35.000	5185.000	35.000	5185.000	35.070	5220.000	.000	
GR	35.670	5525.000	36.030	5705.000	36.150	38.440	6925.000	38.440	6925.000	38.440	6925.000	.000	

SR 1320

S6	1.250	1.930	2.600	.000	6.900	1.480	1.480	31.420	.110	26.950	26.950	.000
MH	7.000	1.000	4840.000	.300	4950.000	.200	.200	4986.500	.075	5013.500	.200	.000
MH	5130.000	.300	5220.000	1.000	6925.000	.000	.000	.000	.000	.000	.000	.000
X1	12312.000	54.000	4986.500	5013.500	43.000	43.000	43.000	43.000	.000	.000	.000	.000
X2	.000	.000	1.000	32.170	32.000	.000	.000	.000	.000	.000	.000	.000
X3	10.000	.000	37.750	.000	4018.000	35.070	35.060	32.000	32.000	32.620	.000	.000
BT	-54.000	2764.000	34.140	37.730	4517.000	34.010	34.000	4636.000	4636.000	34.790	34.790	.000
BT	.000	4454.000	32.020	32.000	4718.000	32.000	31.970	4840.000	4840.000	32.310	31.380	32.790
BT	.000	4712.000	32.510	31.000	4950.000	32.590	31.410	4966.490	4966.490	32.630	31.640	31.640
BT	.000	4966.500	32.630	31.640	4986.490	32.670	31.610	4986.500	4986.500	32.670	31.610	31.610
BT	.000	4990.000	32.670	30.170	4990.630	32.670	31.490	4991.250	4991.250	32.670	31.900	31.900
BT	.000	4991.886	32.660	32.110	4992.500	32.660	32.170	4993.130	4993.130	32.110	32.110	32.110
BT	.000	4993.750	32.660	31.900	4996.380	32.660	31.490	4995.000	4995.000	32.660	30.170	30.170
BT	.000	4996.480	32.660	28.480	4996.490	32.660	28.490	4996.500	4996.500	32.660	28.950	28.950
BT	.000	4997.130	32.660	30.270	4997.750	32.660	30.680	4998.380	4998.380	32.660	30.890	30.890
BT	.000	4998.500	32.660	30.900	4999.000	32.650	30.950	4999.630	4999.630	32.650	30.890	30.890
BT	.000	5000.250	32.650	30.680	5000.500	32.650	30.520	5000.880	5000.880	32.650	26.950	26.950
BT	.000	5001.500	32.650	28.950	5002.500	32.650	27.060	5004.990	5004.990	32.640	31.290	31.290
BT	.000	5005.000	32.640	26.950	5007.500	32.640	27.060	5013.490	5013.490	32.630	31.750	31.750
BT	.000	5013.500	32.630	31.290	5046.490	32.620	31.750	5046.500	5046.500	32.620	34.000	34.000
BT	.000	5095.000	35.010	32.000	5130.000	33.410	33.400	5145.000	5145.000	34.010	34.000	34.000
BT	.000	5185.000	35.010	35.000	5220.000	35.080	35.070	5525.000	5525.000	35.680	35.670	35.670
BT	.000	5705.000	36.060	36.030	5765.000	36.160	36.150	6925.000	6925.000	38.460	38.440	38.440
GR	37.730	2764.000	35.060	4018.000	34.790	34.130	4146.000	34.130	4146.000	34.000	4517.000	.000
GR	32.780	4636.000	32.000	4712.000	31.970	31.380	4718.000	31.380	4718.000	31.000	4920.000	.000
GR	31.410	4950.000	31.640	4966.490	31.640	31.610	4966.500	31.610	4966.500	31.610	4986.500	.000
GR	30.170	4990.000	28.850	4990.630	28.440	28.230	4991.880	28.170	4991.880	28.170	4992.500	.000
GR	28.230	4993.130	28.440	4993.750	28.850	28.650	4995.000	28.480	4995.000	28.480	4996.480	.000
GR	28.490	4996.490	28.950	4996.500	27.830	27.220	4997.750	27.010	4997.750	27.010	4998.380	.000
GR	27.000	4998.500	26.950	4999.000	27.010	26.950	5000.250	26.950	5000.250	26.950	5000.500	.000
GR	27.630	5000.880	28.950	5001.500	27.060	26.950	5004.990	26.950	5004.990	26.950	5005.000	.000
GR	27.060	5007.500	31.290	5013.490	31.290	31.750	5046.490	31.750	5046.490	31.750	5046.500	.000
GR	32.000	5095.000	33.400	5130.000	34.000	35.000	5185.000	35.000	5185.000	35.070	5220.000	.000
GR	35.670	5525.000	36.030	5705.000	36.150	38.440	6925.000	38.440	6925.000	38.440	6925.000	.000











THIS RUN EXECUTED 12-28-88 16:01:56

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 HEC2 RELEASE DATED NOV 76 UPDATED MAY 1984  
 ERROR CORR - 01,02,03,04,05,06  
 MODIFICATION - 50,51,52,53,54,55,56  
 IBM-PC-XT VERSION AUGUST 1985  
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NOTE- ASTERISK (\*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

Harrell Swamp

SUMMARY PRINTOUT TABLE 150

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRWS	EG	10K*S	VCH	AREA	.01K
10.000	.00	.00	.00	11.80	1856.00	17.05	.00	17.05	7.40	1.52	5784.59	682.38
10.000	.00	.00	.00	11.80	3411.00	18.61	.00	18.62	7.49	1.84	8415.01	1246.43
10.000	.00	.00	.00	11.80	4263.00	19.35	.00	19.36	7.48	1.98	9668.91	1558.71
10.000	.00	.00	.00	11.80	7154.00	21.45	.00	21.46	7.61	2.38	13271.68	2593.40
1338.000	1328.00	.00	.00	12.00	1856.00	17.91	.00	17.92	5.73	1.33	5233.33	775.60
1338.000	1328.00	.00	.00	12.00	3411.00	19.53	.00	19.55	6.47	1.72	7469.89	1340.62
1338.000	1328.00	.00	.00	12.00	4263.00	20.29	.00	20.31	6.72	1.89	8554.01	1644.57
1338.000	1328.00	.00	.00	12.00	7154.00	22.43	.00	22.46	7.33	2.35	11829.50	2643.15
2259.000	921.00	.00	.00	8.71	1856.00	18.62	.00	18.70	12.42	2.39	775.76	526.74
2259.000	921.00	.00	.00	8.71	3411.00	20.37	.00	20.55	17.37	3.38	1010.46	818.32
2259.000	921.00	.00	.00	8.71	4263.00	21.17	.00	21.39	19.46	3.82	1116.53	966.43
2259.000	921.00	.00	.00	8.71	7154.00	23.07	.00	23.13	6.92	2.61	12243.59	2718.89
2296.000	37.00	23.07	19.31	8.71	1856.00	18.62	.00	18.71	12.56	2.39	775.32	523.62
2296.000	37.00	23.07	19.31	8.71	3411.00	20.65	.00	20.81	17.10	3.30	1034.62	824.83
2296.000	37.00	23.07	19.31	8.71	4263.00	21.65	.00	21.86	17.79	3.65	1168.88	1010.83
2296.000	37.00	23.07	19.31	8.71	7154.00	24.52	.00	24.54	2.97	1.80	17804.87	4149.74
2803.000	507.00	.00	.00	12.80	1856.00	18.86	.00	18.86	1.26	.60	6046.90	1656.59
2803.000	507.00	.00	.00	12.80	3411.00	20.97	.00	20.97	1.10	.73	9525.79	3255.89
2803.000	507.00	.00	.00	12.80	4263.00	22.01	.00	22.01	1.03	.78	11263.03	4198.88
2803.000	507.00	.00	.00	12.80	7154.00	24.61	.00	24.62	1.05	.96	15695.86	6974.34
5083.000	2280.00	.00	.00	13.15	301.00	19.15	.00	19.15	1.38	.51	741.49	256.15
5083.000	2280.00	.00	.00	13.15	640.00	21.22	.00	21.22	1.07	.63	1428.62	617.54
5083.000	2280.00	.00	.00	13.15	845.00	22.24	.00	22.25	1.00	.68	1797.33	844.93
5083.000	2280.00	.00	.00	13.15	1613.00	24.85	.00	24.85	1.07	.88	2833.43	1560.93
5793.000	710.00	.00	.00	12.61	301.00	19.32	.00	19.34	6.55	1.01	329.42	117.61
5793.000	710.00	.00	.00	12.61	640.00	21.34	.00	21.36	4.53	1.19	764.09	300.80
5793.000	710.00	.00	.00	12.61	845.00	22.35	.00	22.38	4.01	1.27	1028.14	422.23
5793.000	710.00	.00	.00	12.61	1613.00	24.97	.00	25.00	3.87	1.60	1856.86	820.24

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CMSEL	CRISW	EG	10K*S	VCH	AREA	.01K
6323.000	530.00	.00	.00	12.20	301.00	19.72	.00	19.75	9.33	1.39	238.57	98.57
6323.000	530.00	.00	.00	12.20	640.00	21.65	.00	21.70	9.00	1.81	503.34	213.38
6323.000	530.00	.00	.00	12.20	845.00	22.63	.00	22.69	8.60	1.98	663.50	288.13
6323.000	530.00	.00	.00	12.20	1613.00	25.23	.00	25.32	8.95	2.52	1188.46	539.06
6711.000	388.00	.00	.00	14.24	301.00	20.26	.00	20.32	24.54	1.95	226.29	60.76
6711.000	388.00	.00	.00	14.24	640.00	22.09	.00	22.14	14.72	2.09	748.06	166.80
6711.000	388.00	.00	.00	14.24	845.00	23.03	.00	23.08	12.07	2.13	1082.06	243.18
6711.000	388.00	.00	.00	14.24	1613.00	25.62	.00	25.68	9.55	2.44	2181.06	521.92
7248.000	537.00	.00	.00	17.07	301.00	21.16	.00	21.21	12.11	1.90	234.44	66.48
7248.000	537.00	.00	.00	17.07	640.00	22.79	.00	22.86	11.98	2.41	535.90	184.89
7248.000	537.00	.00	.00	17.07	845.00	23.63	.00	23.71	11.08	2.55	716.12	253.89
7248.000	537.00	.00	.00	17.07	1613.00	26.11	.00	26.20	9.64	2.98	1309.04	519.48
7690.000	442.00	.00	.00	19.40	301.00	22.21	.00	22.41	90.87	3.91	130.61	31.58
7690.000	442.00	.00	.00	19.40	640.00	23.88	.00	23.84	49.16	3.94	410.13	91.28
7690.000	442.00	.00	.00	19.40	845.00	24.42	.00	24.56	38.56	3.92	612.72	136.07
7690.000	442.00	.00	.00	19.40	1613.00	26.72	.00	26.85	23.63	4.02	1307.30	331.84
8228.000	538.00	.00	.00	22.23	301.00	25.41	.00	25.46	38.38	2.75	276.97	68.59
8228.000	538.00	.00	.00	22.23	640.00	26.39	.00	26.47	48.54	3.77	425.01	91.86
8228.000	538.00	.00	.00	22.23	845.00	26.86	.00	26.96	52.10	4.23	502.46	117.07
8228.000	538.00	.00	.00	22.23	1613.00	28.51	.00	28.65	50.78	5.19	807.09	226.35
8838.000	610.00	.00	.00	23.33	301.00	26.85	.00	26.87	15.30	1.71	488.02	76.96
8838.000	610.00	.00	.00	23.33	640.00	28.04	.00	28.06	16.13	2.21	791.09	159.34
8838.000	610.00	.00	.00	23.33	845.00	28.60	.00	28.62	16.61	2.44	946.52	207.34
8838.000	610.00	.00	.00	23.33	1613.00	30.30	.00	30.34	17.20	3.04	1475.79	388.90
9503.000	665.00	.00	.00	24.53	301.00	27.87	.00	27.88	15.11	1.60	485.12	77.44
9503.000	665.00	.00	.00	24.53	640.00	29.09	.00	29.10	15.21	2.05	798.95	164.10
9503.000	665.00	.00	.00	24.53	845.00	29.67	.00	29.69	15.45	2.26	956.79	215.01
9503.000	665.00	.00	.00	24.53	1613.00	31.41	.00	31.44	16.06	2.86	1465.08	402.55
10193.000	690.00	.00	.00	25.36	301.00	29.30	.00	29.33	31.16	2.62	331.01	53.92
10193.000	690.00	.00	.00	25.36	640.00	30.48	.00	30.53	29.10	3.09	576.26	118.63
10193.000	690.00	.00	.00	25.36	845.00	31.06	.00	31.10	28.18	3.29	707.83	159.18
10193.000	690.00	.00	.00	25.36	1613.00	32.79	.00	32.84	26.13	3.85	1150.64	315.55
10903.000	710.00	.00	.00	26.21	301.00	30.34	.00	30.34	8.08	1.38	815.41	105.92
10903.000	710.00	.00	.00	26.21	640.00	31.58	.00	31.59	9.07	1.79	1331.01	212.49
10903.000	710.00	.00	.00	26.21	845.00	32.18	.00	32.19	9.51	1.98	1599.08	274.03
10903.000	710.00	.00	.00	26.21	1613.00	33.94	.00	33.96	10.42	2.50	2529.63	499.68
11591.000	688.00	.00	.00	27.03	301.00	31.44	.00	31.52	53.37	3.24	260.62	41.20
11591.000	688.00	.00	.00	27.03	640.00	32.84	.00	32.97	68.98	4.53	377.29	77.06
11591.000	688.00	.00	.00	27.03	845.00	33.53	.00	33.66	75.46	5.12	448.11	97.27
11591.000	688.00	.00	.00	27.03	1613.00	35.37	.00	35.61	87.53	6.64	780.94	172.41

SECMO	XLCH	ELTRD	ELLC	ELMIN	Q	CMSEL	CRIMS	EG	10K*S	VCH	AREA	.01K
12161.000	570.00	.00	.00	26.96	142.00	32.59	.00	32.60	5.44	1.00	489.34	60.88
12161.000	570.00	.00	.00	26.96	321.00	33.98	.00	33.99	4.46	1.13	1240.75	152.00
12161.000	570.00	.00	.00	26.96	434.00	34.64	.00	34.65	4.16	1.18	1737.60	212.66
12161.000	570.00	.00	.00	26.96	874.00	36.48	.00	36.49	3.45	1.30	4886.36	470.62
12269.000	108.00	.00	.00	26.95	142.00	32.64	.00	32.65	4.90	.96	519.88	64.15
12269.000	108.00	.00	.00	26.95	321.00	34.02	.00	34.03	4.20	1.10	1275.11	156.54
12269.000	108.00	.00	.00	26.95	434.00	34.68	.00	34.69	3.97	1.16	1806.56	217.86
12269.000	108.00	.00	.00	26.95	874.00	36.52	.00	36.53	3.34	1.28	4994.49	478.38
12312.000	43.00	32.00	32.17	26.95	142.00	32.67	.00	32.68	4.19	.88	546.23	69.37
12312.000	43.00	32.00	32.17	26.95	321.00	34.04	.00	34.04	3.98	1.04	1298.41	160.87
12312.000	43.00	32.00	32.17	26.95	434.00	34.69	.00	34.70	3.83	1.10	1835.10	221.78
12312.000	43.00	32.00	32.17	26.95	874.00	36.52	.00	36.53	3.31	1.21	5039.50	480.44
12340.000	28.00	.00	.00	27.02	142.00	32.68	.00	32.69	5.14	.98	505.84	62.64
12340.000	28.00	.00	.00	27.02	321.00	34.05	.00	34.06	4.42	1.12	1245.90	152.68
12340.000	28.00	.00	.00	27.02	434.00	34.70	.00	34.71	4.16	1.18	1739.95	212.97
12340.000	28.00	.00	.00	27.02	874.00	36.53	.00	36.54	3.48	1.30	4853.47	468.26

Harrell Swamp

## SUMMARY PRINTOUT TABLE 150

SECKO	Q	CKSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
10.000	1856.00	17.05	.00	.00	-2.95	1666.77	.00
10.000	3411.00	18.61	1.57	.00	-1.39	1691.83	.00
10.000	4263.00	19.35	.74	.00	-.65	1703.65	.00
10.000	7154.00	21.45	2.09	.00	1.45	1736.44	.00
1338.000	1856.00	17.91	.00	.86	.00	1347.20	1328.00
1338.000	3411.00	19.53	1.63	.92	.00	1412.79	1328.00
1338.000	4263.00	20.29	.75	.94	.00	1461.63	1328.00
1338.000	7154.00	22.43	2.14	.98	.00	1604.55	1328.00
2259.000	1856.00	18.62	.00	.71	.00	133.60	921.00
2259.000	3411.00	20.37	1.76	.84	.00	133.60	921.00
2259.000	4263.00	21.17	.79	.88	.00	133.60	921.00
2259.000	7154.00	23.07	1.91	.64	.00	1630.81	921.00
2296.000	1856.00	18.62	.00	.00	.00	133.16	37.00
2296.000	3411.00	20.65	2.03	.27	.00	133.60	37.00
2296.000	4263.00	21.65	1.00	.48	.00	133.60	37.00
2296.000	7154.00	24.52	2.87	1.45	.00	2153.09	37.00
2803.000	1856.00	18.86	.00	.24	.00	1625.79	507.00
2803.000	3411.00	20.97	2.11	.32	.00	1665.13	507.00
2803.000	4263.00	22.01	1.04	.36	.00	1676.07	507.00
2803.000	7154.00	24.61	2.61	.09	.00	1731.08	507.00
5083.000	301.00	19.15	.00	.29	.00	316.07	2280.00
5083.000	640.00	21.22	2.07	.25	.00	350.50	2280.00
5083.000	845.00	22.24	1.02	.23	.00	369.81	2280.00
5083.000	1613.00	24.85	2.61	.24	.00	424.65	2280.00
5793.000	301.00	19.32	.00	.18	.00	165.00	710.00
5793.000	640.00	21.34	2.02	.13	.00	246.95	710.00
5793.000	845.00	22.35	1.01	.11	.00	276.21	710.00
5793.000	1613.00	24.97	2.61	.11	.00	357.98	710.00
6323.000	301.00	19.72	.00	.40	.00	116.26	530.00
6323.000	640.00	21.65	1.93	.31	.00	154.07	530.00
6323.000	845.00	22.63	.98	.28	.00	174.23	530.00
6323.000	1613.00	25.23	2.60	.26	.00	229.46	530.00
6711.000	301.00	20.26	.00	.54	.00	229.90	388.00
6711.000	640.00	22.09	1.83	.44	.00	339.11	388.00
6711.000	845.00	23.03	.94	.40	.00	371.99	388.00
6711.000	1613.00	25.62	2.59	.39	.00	498.93	388.00



SECHO	Q	CWSEL	DIFWSP	DIFWSK	DIFKWS	TOPWID	XLCH
7248.000	301.00	21.16	.00	.90	.00	142.02	537.00
7248.000	640.00	22.79	1.62	.70	.00	207.87	537.00
7248.000	845.00	23.63	.85	.61	.00	218.44	537.00
7248.000	1613.00	26.11	2.48	.50	.00	264.00	537.00
7690.000	301.00	22.21	.00	1.04	.00	129.86	442.00
7690.000	640.00	23.68	1.47	.89	.00	251.28	442.00
7690.000	845.00	24.42	.74	.78	.00	284.05	442.00
7690.000	1613.00	26.72	2.31	.61	.00	320.02	442.00
8228.000	301.00	25.41	.00	3.20	.00	147.74	538.00
8228.000	640.00	26.39	.98	2.71	.00	159.75	538.00
8228.000	845.00	26.86	.47	2.44	.00	169.15	538.00
8228.000	1613.00	28.51	1.65	1.78	.00	201.74	538.00
8838.000	301.00	26.85	.00	1.44	.00	237.03	610.00
8838.000	640.00	28.04	1.19	1.65	.00	271.29	610.00
8838.000	845.00	28.60	.56	1.74	.00	287.29	610.00
8838.000	1613.00	30.30	1.70	1.80	.00	343.42	610.00
9503.000	301.00	27.87	.00	1.01	.00	246.69	665.00
9503.000	640.00	29.09	1.22	1.05	.00	266.33	665.00
9503.000	845.00	29.67	.58	1.07	.00	275.07	665.00
9503.000	1613.00	31.41	1.74	1.11	.00	310.04	665.00
10193.000	301.00	29.30	.00	1.43	.00	195.66	690.00
10193.000	640.00	30.48	1.18	1.39	.00	221.00	690.00
10193.000	845.00	31.06	.58	1.39	.00	235.41	690.00
10193.000	1613.00	32.79	1.73	1.37	.00	275.09	690.00
10903.000	301.00	30.34	.00	1.04	.00	389.20	710.00
10903.000	640.00	31.58	1.24	1.10	.00	441.35	710.00
10903.000	845.00	32.18	.60	1.12	.00	469.78	710.00
10903.000	1613.00	33.94	1.76	1.16	.00	582.13	710.00
11591.000	301.00	31.44	.00	1.10	.00	90.97	688.00
11591.000	640.00	32.84	1.40	1.26	.00	105.63	688.00
11591.000	845.00	33.50	.66	1.32	.00	113.08	688.00
11591.000	1613.00	35.37	1.87	1.43	.00	265.56	688.00
12161.000	142.00	32.59	.00	1.14	.00	453.44	570.00
12161.000	321.00	33.98	1.39	1.14	.00	624.30	570.00
12161.000	434.00	34.64	.66	1.14	.00	949.76	570.00
12161.000	874.00	36.48	1.84	1.11	.00	2577.17	570.00
12269.000	142.00	32.64	.00	.06	.00	461.61	108.00
12269.000	321.00	34.02	1.38	.05	.00	640.76	108.00
12269.000	434.00	34.68	.66	.04	.00	975.52	108.00
12269.000	874.00	36.52	1.84	.04	.00	2617.81	108.00

SECNO	Q	CUSEL	DIFVSP	DIFVSK	DIFKMS	TOPMID	KLCK
12312.000	142.00	32.67	.00	.03	.00	465.91	43.00
12312.000	321.00	34.04	1.37	.01	.00	651.49	43.00
12312.000	434.00	34.69	.66	.01	.00	985.06	43.00
* 12312.000	874.00	36.52	1.83	.01	.00	2630.80	43.00
12340.000	142.00	32.68	.00	.01	.00	457.88	28.00
12340.000	321.00	34.05	1.37	.01	.00	625.31	28.00
12340.000	434.00	34.70	.65	.01	.00	951.00	28.00
12340.000	874.00	36.53	1.83	.01	.00	2564.69	28.00

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

C  
 T1 Kayes, Seay, Mattern & Mattern  
 T2 File Name: HS.HEC Efg: EKL E1: DJB  
 T3 Harrell Swamp Date: 12/28/88

Gates Co. NC FIS  
 Comm. No. 2353C  
 100-Year Event

J1	ICHECK	ING	MINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FO
0.	4.	0.	0.	.000750	.00	.0	0.	20.000	.000	

J2 MPROF IPLOT PRFVS XSECV XSECH FN ALLDC IBW CHNIM ITRACE

1.000	.000	1.000	.000	.000	.000	.000	.000	.000	.000	.000
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J3 VARIABLE CODES FOR SUMMARY PRINTOUT

NC	.150	.150	.070	.100	.300	.000	.000	.000	.000	.000	.000	.000
NH	7.000	1.000	4057.000	.350	4470.000	.270	4790.000	.175	4984.000	.075	.000	.000
NH	5016.000	.170	5200.000	1.000	5834.000	.000	.000	.000	.000	.000	.000	.000
OT	5.000	1856.000	3411.000	4263.000	7154.000	4263.000	10.410	.000	.000	.000	.000	.000
ET	.000	.000	.000	.000	.000	.000	10.300	.000	.000	.000	.000	.000
X1	10.000	23.000	4984.000	5016.000	10.000	10.000	10.000	10.000	10.000	10.000	10.000	10.000
GR	22.000	4046.000	20.000	4057.000	18.000	4069.000	16.000	4081.000	14.000	4092.000	4092.000	4092.000
GR	13.720	4470.000	13.600	4632.000	13.510	4790.000	13.400	4984.000	12.100	4989.000	4989.000	4989.000
GR	11.800	4994.000	12.000	5009.000	13.450	5014.000	13.400	5016.000	13.380	5200.000	5200.000	5200.000
GR	13.310	5685.000	14.000	5710.000	16.000	5731.000	18.000	5751.000	20.000	5771.000	5771.000	5771.000
GR	22.000	5791.000	24.000	5807.000	25.990	5834.000	.000	.000	.000	.000	.000	.000
NH	7.000	1.000	4055.000	.350	4465.000	.270	4790.000	.175	4952.000	.075	.000	.000
NH	5036.000	.170	5088.000	100.000	5459.000	.000	.000	.000	.000	.000	.000	.000

\*\*\*\*\*  
 HEC-2 Input file created with CodeHZ  
 \*\*\*\*\*  
 Version: 3.49  
 \*\*\*\*\*  
 CodeHZ Copyrighted 1986, 1987, 1988  
 \*\*\*\*\*  
 Run Date: Wednesday December 28, 1988  
 \*\*\*\*\*  
 Run Time: 14:52:00  
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Cross Section A

X1	1330.000	40.000	4972.000	5038.000	1328.000	1328.000	1328.000	1328.000	.000	18.000	.000	3850.000
GR	25.000	3786.000	24.000	3808.000	22.000	3823.000	3808.000	3823.000	.000	18.000	.000	3850.000
GR	16.000	3860.000	14.000	3880.000	13.900	3910.000	3880.000	3910.000	.000	13.900	.000	4200.000
GR	13.800	4465.000	14.000	4567.000	14.000	4647.000	4567.000	4647.000	.000	13.700	.000	4817.000
GR	13.700	4952.000	13.600	4984.000	12.300	4989.000	4984.000	4989.000	.000	12.200	.000	5009.000
GR	13.650	5014.000	13.600	5016.000	13.700	5038.000	5016.000	5038.000	.000	16.000	.000	5058.000
GR	18.000	5068.000	20.000	5080.000	21.000	5088.000	5080.000	5088.000	.000	18.000	.000	5120.000
GR	16.000	5140.000	14.000	5160.000	13.400	5178.000	5160.000	5178.000	.000	16.000	.000	5232.000
GR	18.000	5252.000	19.000	5262.000	20.000	5302.000	5262.000	5302.000	.000	22.800	.000	5459.000
NC	.000	.000	.000	.300	.500	.000	.000	.000	.000	.000	.000	.000
NH	8.000	1.000	4230.000	.350	4650.000	.270	4897.900	4897.900	.175	4924.500	.070	4924.500
NH	5058.100	.170	5180.000	.300	5467.000	1.000	5852.000	5852.000	.000	.000	.000	.000
X1	2259.000	64.000	4924.500	5058.100	921.000	921.000	921.000	921.000	.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	.000	.000	23.070	.000	23.070
GR	26.000	3349.900	20.000	3509.000	18.000	3564.000	3509.000	3564.000	.000	15.930	.000	3640.000
GR	15.100	4082.000	15.120	4230.000	15.160	4650.000	4230.000	4650.000	.000	15.190	.000	4897.900
GR	15.900	4922.890	15.900	4922.900	15.900	4922.910	4922.900	4922.910	.000	15.940	.000	4924.510
GR	16.140	4931.400	14.360	4944.400	14.240	4947.900	4944.400	4947.900	.000	14.100	.000	4963.100
GR	13.430	4964.400	13.190	4968.500	13.190	4968.510	4968.500	4968.510	.000	13.040	.000	4969.500
GR	13.040	4969.510	12.220	4972.900	9.560	4983.900	4972.900	4983.900	.000	8.770	.000	4998.900
GR	11.240	5013.500	11.250	5013.510	11.330	5013.990	5013.500	5013.990	.000	11.340	.000	5014.500
GR	11.340	5014.510	11.580	5028.400	13.430	5034.800	5028.400	5034.800	.000	13.570	.000	5043.900
GR	14.740	5047.100	17.710	5052.100	17.740	5057.100	5052.100	5057.100	.000	17.620	.000	5058.100
GR	17.390	5060.090	17.380	5060.100	17.380	5060.110	5060.100	5060.110	.000	16.460	.000	5084.900
GR	16.800	5180.000	16.630	5200.000	16.000	5278.000	5200.000	5278.000	.000	16.000	.000	5331.000
GR	18.000	5439.000	20.000	5467.000	22.000	5477.000	5467.000	5477.000	.000	22.530	.000	5507.000
GR	25.070	5575.000	25.010	5577.000	25.370	5677.000	5577.000	5677.000	.000	26.000	.000	5852.000
SB	1.250	1.730	2.600	.000	80.160	.970	840.300	840.300	.010	8.710	.000	8.710
NH	8.000	1.000	4230.000	.350	4650.000	.270	4897.900	4897.900	.175	4924.500	.070	4924.500
NH	5058.100	.170	5180.000	.300	5467.000	1.000	5852.000	5852.000	.000	.000	.000	.000

US 158

X1	2296.000	64.000	4924.500	5058.100	37.000	37.000	37.000	37.000	.000	37.000	.000	.000
X2	10.000	.000	1.000	19.310	.000	.000	.000	.000	.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	.000	.000	23.070	.000	23.070
BT	-64.000	3349.900	26.020	26.000	3509.000	26.000	20.000	3564.000	.000	3564.000	.000	18.000
BT	.000	3602.000	26.000	16.000	3640.000	26.000	15.930	4082.000	.000	25.250	.000	15.100
BT	.000	4230.000	25.000	15.120	4650.000	24.280	15.160	4815.000	.000	26.000	.000	15.180
BT	.000	4897.900	23.070	15.190	4922.890	23.110	15.900	4922.900	.000	25.310	.000	15.900
BT	.000	4922.910	25.310	15.900	4924.500	25.310	15.940	4924.510	.000	25.310	.000	19.310
BT	.000	4931.400	25.310	19.310	4944.400	25.310	19.310	4947.900	.000	25.310	.000	19.310
BT	.000	4952.900	25.310	19.310	4963.100	25.300	19.300	4964.400	.000	25.300	.000	19.300
BT	.000	4968.500	25.300	19.300	4968.510	25.300	13.190	4969.000	.000	25.300	.000	13.160
BT	.000	4969.500	25.300	13.040	4969.510	25.300	19.300	4972.900	.000	25.300	.000	19.300
BT	.000	4983.900	25.300	19.300	4997.900	25.290	19.290	4998.900	.000	25.290	.000	19.290
BT	.000	5013.500	25.290	19.290	5013.510	25.290	11.250	5013.990	.000	25.290	.000	11.330
BT	.000	5014.000	25.290	11.330	5014.500	25.290	11.340	5014.510	.000	25.290	.000	19.290
BT	.000	5028.400	25.290	19.290	5034.800	25.290	19.290	5036.900	.000	25.290	.000	19.290
BT	.000	5043.900	25.290	19.290	5047.100	25.290	19.290	5052.100	.000	25.290	.000	19.290



## Cross Section C-1

X1	5793.000	20.000	4946.900	5053.100	710.000	710.000	710.000	.000	.000	.000
GR	26.250	4800.000	25.000	4851.000	24.000	4862.000	22.710	4880.000	22.000	4890.000
GR	20.000	4910.000	18.910	4946.900	18.610	4975.220	15.410	4985.840	12.610	5014.160
GR	15.210	5024.780	18.510	5042.480	19.510	5053.100	18.000	5045.000	18.550	5080.000
GR	20.000	5120.000	22.000	5155.000	24.000	5190.000	25.000	5210.000	32.800	5250.000
NH	7.000	1.000	4880.000	.300	4949.000	.180	4970.000	.075	5030.000	.190
NH	5030.000	.300	5073.000	1.000	5494.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	.000	.000	3.410	.000	.000	.000	.000

## Cross Section D

X1	6323.000	26.000	4970.000	5030.000	530.000	530.000	530.000	.000	.000	.000
GR	34.600	4599.000	32.900	4701.000	31.900	4811.000	28.290	4880.000	27.300	4899.000
GR	25.000	4924.000	24.000	4929.000	22.000	4949.000	20.000	4962.000	18.500	4970.000
GR	18.200	4986.000	15.000	4992.000	12.200	5008.000	14.800	5014.000	18.100	5024.000
GR	19.100	5030.000	19.500	5073.000	20.000	5088.000	20.300	5091.000	22.000	5109.000
GR	24.000	5134.000	25.000	5146.000	25.700	5161.000	28.900	5281.000	31.700	5379.000
GR	33.100	5494.000	.000	.000	.000	.000	.000	.000	.000	.000
NH	7.000	1.000	4880.000	.300	4955.000	.180	4974.500	.075	5025.500	.190
NH	5040.000	.300	5080.000	1.000	5360.000	.000	.000	.000	.000	.000

## Cross Section D-1A

X1	6711.000	20.000	4974.500	5025.500	388.000	388.000	388.000	.000	.000	.000
GR	26.250	4695.000	25.000	4760.000	24.000	4782.000	22.000	4802.000	20.000	4826.000
GR	19.830	4880.000	19.600	4955.000	19.540	4974.500	19.240	4988.100	16.040	4993.200
GR	14.240	5006.800	15.840	5011.900	19.140	5020.400	20.140	5025.500	20.000	5040.000
GR	20.820	5080.000	22.000	5138.000	24.000	5188.000	25.000	5210.000	32.800	5360.000
NH	7.000	1.000	4842.000	.300	4930.000	.170	4981.030	.065	5018.970	.150
NH	5055.000	.300	5150.000	1.000	5183.000	.000	.000	.000	.000	.000

## Cross Section D-1

X1	7248.000	18.000	4981.030	5018.970	537.000	537.000	537.000	.000	.000	.000
GR	32.800	4775.000	25.000	4825.000	24.000	4832.000	22.000	4842.000	20.530	4930.000
GR	20.000	4962.000	18.670	4981.030	17.250	4990.520	17.110	4998.650	17.070	5004.070
GR	17.240	5012.200	18.230	5018.970	20.000	5025.000	22.000	5040.000	24.000	5055.000
GR	25.000	5065.000	30.620	5150.000	32.800	5183.000	.000	.000	.000	.000
NH	6.000	1.000	4840.000	.300	4930.000	.170	4986.490	.065	5013.510	.150
NH	5051.000	.300	5117.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	.000	.000	10.410	.000	.000	.000	.000







X1	12269.000	54.000	4986.500	5013.500	108.000	108.000	108.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	37.730	2764.000	35.060	4018.000	34.790	4146.000	34.130	4454.000	34.000	4517.000
GR	32.780	4636.000	32.000	4712.000	31.970	4718.000	31.380	4840.000	31.000	4920.000
GR	31.410	4950.000	31.640	4966.490	31.640	4966.500	31.610	4986.490	31.610	4986.500
GR	30.510	4990.000	30.310	4990.630	30.120	4991.250	29.920	4991.880	29.730	4992.500
GR	29.530	4993.130	29.340	4993.750	29.140	4994.380	28.940	4995.000	28.480	4998.480
GR	28.490	4996.490	28.500	4996.500	29.010	4997.130	29.510	4997.750	30.020	4998.380
GK	30.120	4998.500	28.500	4999.000	29.410	4999.630	27.650	5000.250	27.300	5000.500
GR	27.250	5000.880	27.180	5001.500	27.060	5002.500	26.950	5004.990	26.950	5005.000
GR	27.060	5007.500	31.290	5013.490	31.290	5013.500	31.750	5046.490	31.750	5046.500
GR	32.000	5095.000	33.400	5130.000	34.000	5145.000	35.000	5185.000	35.070	5220.000
GR	35.670	5525.000	36.030	5705.000	36.150	5765.000	38.440	6925.000	.000	.000
SB	1.250	1.930	2.600	.000	6.900	1.480	31.420	.110	26.950	26.950
NH	7.000	1.000	4840.900	.300	4950.000	.200	4986.500	.075	5013.500	.200
NH	5130.000	.300	5220.000	.000	6925.000	.000	.000	.000	.000	.000

SF 1320

X1	12312.000	54.000	4986.500	5013.500	43.000	43.000	43.000	.000	.000	.000
X2	10.000	.000	1.000	32.170	32.000	.000	.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
BT	54.000	2764.000	37.750	37.730	4018.000	35.070	35.060	4454.000	32.000	32.620
BT	.000	4454.000	34.140	34.130	4517.000	34.070	34.000	4636.000	34.800	34.790
BT	.000	4712.000	32.020	32.000	4718.000	32.000	31.970	4840.000	32.790	32.780
BT	.000	4920.000	32.510	31.000	4950.000	32.590	31.410	4966.490	32.630	31.640
BT	.000	4966.500	32.630	31.640	4986.490	32.670	31.610	4986.500	32.670	31.610
BT	.000	4990.000	32.670	30.170	4990.630	32.670	31.490	4991.250	32.670	31.900
BT	.000	4991.880	32.660	32.110	4992.500	32.660	32.170	4993.750	32.660	32.110
BT	.000	4993.750	32.660	31.900	4994.380	32.660	31.490	4995.000	32.660	30.170
BT	.000	4996.480	32.660	28.480	4996.490	32.660	28.490	4996.500	32.660	28.950
BT	.000	4998.500	32.660	30.270	4997.750	32.660	30.680	4998.380	32.660	30.890
BT	.000	5000.250	32.650	30.900	4999.000	32.650	30.950	4999.630	32.650	30.890
BT	.000	5001.500	32.650	28.950	5002.500	32.650	27.060	5004.990	32.650	26.950
BT	.000	5005.000	32.640	26.950	5007.500	32.640	27.060	5013.490	32.630	31.290
BT	.000	5013.500	32.630	31.290	5046.490	32.620	31.750	5046.500	32.620	31.750
BT	.000	5095.000	32.760	32.000	5130.000	33.410	33.400	5145.000	34.010	34.000
BT	.000	5185.000	35.010	35.000	5220.000	35.080	35.070	5225.000	35.680	35.670
BT	.000	5705.000	36.040	36.030	5765.000	36.160	36.150	6925.000	38.440	38.440
GR	37.730	2764.000	35.060	4018.000	34.790	4146.000	34.130	4454.000	34.000	4517.000
GR	32.780	4636.000	32.000	4712.000	31.970	4718.000	31.380	4840.000	31.000	4920.000
GR	31.410	4950.000	31.640	4966.490	31.640	4966.500	31.610	4986.490	31.610	4986.500
GR	30.170	4990.000	28.850	4990.630	28.440	4991.250	28.230	4991.880	28.170	4992.500
GR	28.230	4993.130	28.440	4993.750	28.850	4994.380	30.170	4995.000	28.480	4996.480
GR	27.000	4998.500	28.950	4999.000	27.010	4999.630	27.220	5000.250	27.380	5000.500
GR	27.630	5000.880	28.950	5001.500	27.060	5002.500	26.950	5004.990	26.950	5005.000
GR	27.060	5007.500	31.290	5013.490	31.290	5013.500	31.750	5046.490	31.750	5046.500
GR	32.000	5095.000	33.400	5130.000	34.000	5145.000	35.000	5185.000	35.070	5220.000
GR	35.670	5525.000	36.030	5705.000	36.150	5765.000	38.440	6925.000	.000	.000





THIS RUN EXECUTED 12-28-88 14:54:37

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 HECZ RELEASE DATED NOV 76 UPDATED MAY 1984  
 ERROR CORR - 01,02,03,04,05,06  
 MODIFICATION - 50,51,52,53,54,55,56  
 IBM-PC-XT VERSION AUGUST 1985  
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NOTE- ASTERISK (\*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

Harrell Swamp

SUMMARY PRINTOUT TABLE 110

SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
10.000	19.35	.65	19.36	1703.65	2526.91	450.01	1286.08	.00	.00	4984.00	5016.00	.00
10.000	19.35	.00	19.37	868.06	2648.50	581.75	1032.75	.23	4322.26	4984.00	5016.00	5190.32
1338.000	20.29	.00	20.31	1461.63	3005.86	1149.55	107.58	.00	.00	4952.00	5038.00	.00
1338.000	20.72	.43	20.75	734.71	2821.07	1441.93	.00	.21	4303.30	4952.00	5038.00	5038.00
2259.000	21.17	.00	21.39	133.60	.00	4263.00	.00	.00	.00	4924.50	5058.10	.00
2259.000	21.69	.53	21.89	133.60	.00	4263.00	.00	.00	4924.50	4924.50	5058.10	5058.10
2296.000	21.65	.00	21.86	133.60	.00	4263.00	.00	.00	.00	4924.50	5058.10	.00
2296.000	22.20	.55	22.38	133.60	.00	4263.00	.00	.00	4924.50	4924.50	5058.10	5058.10
2803.000	22.01	.00	22.01	1676.07	955.75	3221.05	86.20	.00	.00	4700.00	5240.00	.00
2803.000	22.54	.53	22.55	717.83	306.70	3956.30	.00	.19	4522.17	4700.00	5240.00	5240.00
5093.000	22.24	.00	22.25	369.81	77.32	725.91	41.78	.00	.00	4916.50	5083.50	.00
5093.000	22.82	.58	22.83	167.00	.00	845.00	.00	.16	4916.50	4916.50	5083.50	5083.50
5793.000	22.35	.00	22.38	276.21	24.87	785.23	34.90	.00	.00	4946.90	5053.10	.00
5793.000	22.93	.58	22.96	106.20	.00	845.00	.00	.09	4946.90	4946.90	5053.10	5053.10
6323.000	22.63	.00	22.69	174.23	21.80	770.79	52.41	.00	.00	4970.00	5030.00	.00
6323.000	23.18	.55	23.24	71.96	.00	830.55	14.45	.08	4970.00	4970.00	5030.00	5041.96
6711.000	23.03	.00	23.08	371.99	162.01	617.61	65.38	.00	.00	4974.50	5025.50	.00
6711.000	23.55	.52	23.61	151.12	144.60	668.57	31.83	.10	4891.95	4974.50	5025.50	5043.07
7248.000	23.63	.00	23.71	218.44	194.75	598.76	51.48	.00	.00	4981.03	5018.97	.00
7248.000	24.09	.46	24.17	121.85	184.52	644.60	15.88	.10	4902.21	4981.03	5018.97	5024.06
7690.000	24.42	.00	24.56	284.05	292.57	490.50	61.93	.00	.00	4986.49	5013.51	.00
7690.000	24.81	.39	25.14	57.30	158.46	686.54	.00	.36	4956.21	4986.49	5013.51	5013.51

SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOS	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
8228.000	26.86	.00	26.96	169.15	380.58	251.13	213.18	.00	.00	4993.00	5007.00	.00
8228.000	27.88	1.02	28.06	82.02	373.24	356.44	115.32	.35	4940.45	4993.00	5007.00	5022.47
8838.000	28.60	.00	28.62	287.29	398.92	138.30	307.78	.00	.00	4993.95	5006.05	.00
8838.000	29.65	1.05	29.69	128.23	382.76	191.78	270.47	.33	4922.96	4993.95	5006.05	5051.19
9503.000	29.67	.00	29.69	275.07	330.97	103.04	410.99	.00	.00	4995.00	5005.00	.00
9503.000	30.70	1.03	30.73	144.97	293.08	142.81	409.11	.32	4936.59	4995.00	5005.00	5081.56
10193.000	31.06	.00	31.10	235.41	163.06	168.53	513.41	.00	.00	4995.00	5005.00	.00
10193.000	32.06	1.00	32.14	104.48	57.09	226.95	560.95	.35	4984.54	4995.00	5005.00	5089.02
10903.000	32.18	.00	32.19	469.78	396.47	106.44	342.09	.00	.00	4995.00	5005.00	.00
10903.000	33.19	1.02	33.21	178.74	391.42	141.40	312.18	.31	4894.61	4995.00	5005.00	5073.35
11591.000	33.50	.00	33.66	113.08	208.54	300.99	335.47	.00	.00	4995.00	5005.00	.00
11591.000	34.44	.95	34.71	53.54	132.59	393.28	319.13	.27	4977.69	4995.00	5005.00	5031.23
12161.000	34.64	.00	34.65	949.76	161.41	182.02	90.57	.00	.00	4986.50	5013.50	.00
12161.000	35.63	.99	35.64	194.02	158.84	223.70	51.46	.30	4855.17	4986.50	5013.50	5049.19
12269.000	34.68	.00	34.69	975.52	162.29	180.32	91.39	.00	.00	4986.50	5013.50	.00
12269.000	35.67	.98	35.68	196.49	159.85	221.73	52.42	.30	4853.71	4986.50	5013.50	5050.21
12312.000	34.69	.00	34.70	985.06	161.16	181.96	90.88	.00	.00	4986.50	5013.50	.00
12312.000	35.71	1.02	35.72	196.49	159.90	221.61	52.49	.30	4853.71	4986.50	5013.50	5050.21
12340.000	34.70	.00	34.71	951.00	161.45	181.93	90.61	.00	.00	4986.50	5013.50	.00
12340.000	35.72	1.02	35.73	193.75	159.14	223.37	51.48	.30	4855.29	4986.50	5013.50	5049.05

FLOODWAY DATA, Harrell Swamp  
 PROFILE NO. 2

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	MEAN VELOCITY	WATER SURFACE ELEVATION WITH DIFFERENCE		
				WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE
10.000	868.	5070.	.8	19.4	19.4	.0
1338.000	735.	5107.	.8	20.7	20.3	.4
2259.000	134.	1187.	3.6	21.7	21.2	.5
2296.000	134.	1242.	3.4	22.2	21.7	.5
2803.000	715.	5754.	.7	22.5	22.0	.5
5083.000	167.	1162.	.7	22.8	22.2	.6
5793.000	106.	679.	1.2	23.0	22.4	.6
6323.000	72.	471.	1.8	23.2	22.6	.6
6711.000	151.	697.	1.2	23.5	23.0	.5
7248.000	122.	583.	1.5	24.1	23.6	.5
7690.000	57.	245.	3.5	24.8	24.4	.4
8228.000	82.	375.	2.3	27.9	26.9	1.0
8838.000	128.	645.	1.3	29.6	28.6	1.0
9503.000	145.	719.	1.2	30.7	29.7	1.0
10193.000	104.	504.	1.7	32.1	31.1	1.0
10903.000	179.	940.	.9	33.2	32.2	1.0
11591.000	54.	331.	2.6	34.4	33.5	.9
12161.000	194.	895.	.5	35.6	34.6	1.0
12269.000	196.	913.	.5	35.7	34.7	1.0
12312.000	196.	934.	.5	35.7	34.7	1.0
12340.000	194.	900.	.5	35.7	34.7	1.0