

CATAWBA CREEK

Catoe
Floodway

HEC2 VERSION UPDATED JAN 1976
ERROR CORRECTION 01,02,03,04,05,06,07,08,09
MODIFICATIONS 52,53,54,55,56,57,58

T1 GASTONIA N C
T2 FLOOD INSURANCE
T3 CATAWBA CREEK 100 YR O

J1	ICHECK	IND	NINV	IDIR	STRT	METRIC	HVINS	Q	ASEI	FG
	0.	0.	0.	0.	0.	0.	0.	0.	630,500	0.
J2	NPROF	IPLOT	PREVS	XSECV	XSECH	FN	ALLDC	TRM	CHM14	ITRACE
	1.000	0.	-1.000	5.000	50.000	0.	0.	0.	0.	0.
J3	1.000	34,000	3,000	4,000	27,000	28,000	9,000	0.	0.	0.
NC	0,100	0,100	0,000	0,100	0,300	0.	0.	0.	0.	0.
QT	5,000	1325,000	2600,000	3400,000	3400,000	4200,000	0.	0.	0.	0.
ET	0.	0.	0.	0.	10,400	0.	0.	0.	0.	0.
X1	380,000	20,000	188,000	247,000	0.	0.	0.	0.	0.	0.
GR	650,000	0.	608,500	50,000	644,200	100,000	643,500	120,000	628,200	150,000
GR	627,000	188,000	617,000	204,000	616,000	218,000	617,000	232,000	628,000	247,000
GR	626,100	400,000	626,900	450,000	627,000	550,000	626,800	600,000	627,000	627,000
GR	668,300	400,000	663,300	407,000	667,800	415,000	665,800	450,000	668,800	477,000
GR	660,400	485,000	659,100	494,000	658,600	506,000	667,700	513,000	666,500	650,000
GR	665,300	700,000	671,900	850,000	674,000	900,000	680,000	995,000	685,000	1060,000
X1	535,600	24,000	552,000	610,000	1360,000	1460,000	1460,000	0.	0.	0.
GR	680,000	0.	681,500	50,000	680,000	115,000	675,000	200,000	671,100	300,000
GP	670,200	350,000	670,300	400,000	671,000	450,000	670,700	500,000	671,300	552,000
GP	662,700	578,000	662,600	585,000	663,600	603,000	672,300	610,000	671,000	650,000
GR	670,600	700,000	670,200	800,000	670,000	650,000	671,800	898,000	675,000	905,000
GR	680,000	927,000	685,000	965,000	685,700	990,000	685,000	1015,000	0.	0.
X1	555,000	25,000	575,000	446,000	1940,000	1940,000	1940,000	0.	0.	0.
GR	700,000	0.	691,800	100,000	689,700	150,000	685,000	200,000	677,400	240,000
GR	676,300	300,000	676,300	350,000	674,700	375,000	669,700	383,000	664,300	426,000
GR	677,500	446,000	677,500	450,000	675,900	500,000	675,900	550,000	675,000	600,000
GR	675,700	650,000	676,600	663,000	681,000	668,000	682,400	695,000	682,400	700,000
GP	684,000	724,000	687,100	727,000	691,000	750,000	694,700	800,000	700,000	909,000
X1	568,700	10,000	57,000	164,000	1470,000	1320,000	1370,000	0.	0.	0.
GP	700,000	0.	690,800	43,000	682,200	57,000	679,100	60,000	678,300	109,000
GR	669,300	113,000	668,800	144,000	678,300	149,000	681,200	164,000	700,000	206,000
NC	0,150	0,150	0,150	0,300	0,500	0.	0.	0.	0.	0.
X1	582,000	15,000	164,000	208,000	1330,000	1330,000	1330,000	0.	0.	0.
GR	710,000	60,000	700,000	100,000	698,900	107,000	690,400	117,000	689,500	104,000
GR	687,700	150,000	682,500	164,000	679,600	158,000	680,000	194,000	681,000	195,000
GR	682,400	200,000	684,100	208,000	699,700	240,000	704,800	250,000	716,100	300,000
SB	1.250	2,000	2,600	0.	28,000	1,600	1584,000	2,320	0.	0.
X1	582,800	0.	0.	0.	80,000	80,000	80,000	1,000	0.	0.
X2	0.	0.	1,000	705,200	704,100	0.	0.	0.	0.	0.
BT	10,000	0.	725,000	0.	200,000	708,700	0.	350,000	703,900	0.
				500,000	704,100	0.	600,000	705,000	0.	650,000

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CATAWBA CREEK

Active
Floodway

NECP VERSION UPDATED JAN 1976
 ERROR CORRECTION 01, 02, 03, 04, 05, 06, 07, 08, 09
 MODIFICATIONS 52, 53, 54, 55, 56, 57, 58

F1 GASTONIA N C
 F2 FLOOD INSURANCE
 F3 CATAWBA CREEK 100 YR C

J1 ICHECK 1ND RTAV INR STRT METRIC RVINS 0 ASEI F0
 0. 4. 0. 0. 0. 0. 0. 0. 0. 630,000 0.

J2 NPROF IPLAT PREVS XSECV XSECH FN ALLOC TSP CHRI ITRACF
 1,000 0. -1,000 5,000 50,000 0. 0. 0. 0. 0.

J3 1,000 34,000 3,000 4,000 27,000 28,000 4,000 0. 0. 0.
 NC 0,100 0,100 0,000 0,100 0,300 0. 0. 0. 0. 0.
 UT 5,000 1325,000 2600,000 3400,000 3400,000 6200,000 0. 0. 0. 0.
 ET 0. 0. 0. 0. 10,400 0. 0. 0. 0. 0.

X1 380,000 20,000 188,000 247,000 0. 0. 0. 0. 0. 0.
 GR 650,000 0. 608,500 50,000 640,200 100,000 643,500 120,000 628,200 140,000
 GR 627,000 188,000 617,000 204,000 616,000 218,000 617,000 232,000 628,000 247,000
 GR 626,100 400,000 626,900 450,000 627,000 550,000 626,600 600,000 627,000 627,000
 GR 625,200 630,000 628,100 640,000 629,400 700,000 631,200 734,000 650,000 815,000

X1 383,000 20,000 170,000 225,000 300,000 300,000 300,000 0. 0. 0.
 GR 650,000 0. 633,200 135,000 624,400 155,000 624,000 170,000 618,000 140,000
 GR 616,700 195,000 617,500 212,000 624,700 225,000 626,200 250,000 628,500 300,000
 GR 628,000 350,000 626,900 400,000 627,000 450,000 627,800 500,000 627,900 510,000
 GR 627,800 550,000 627,400 600,000 632,000 650,000 639,800 700,000 645,000 748,000

X1 388,600 20,000 340,000 402,000 600,000 470,000 560,000 0. 0. 0.
 GR 650,000 0. 638,700 100,000 633,500 150,000 633,200 200,000 633,600 250,000
 GR 627,500 288,000 629,500 300,000 629,300 317,000 619,200 328,000 626,900 340,000
 GR 618,800 346,000 617,300 357,000 618,900 368,000 620,300 368,000 621,200 393,000
 GR 629,400 402,000 630,200 420,000 636,500 450,000 639,800 476,000 649,700 580,000

X1 399,500 14,000 174,000 232,000 1090,000 1090,000 1090,000 0. 0. 0.
 GR 650,000 0. 645,000 50,000 637,700 100,000 632,500 140,000 633,800 179,000
 GR 622,300 192,000 619,800 204,000 624,700 216,000 634,300 232,000 637,700 250,000
 GR 644,100 300,000 647,000 350,000 647,600 400,000 650,000 433,000 0. 0.

X1 408,000 15,000 200,000 450,000 950,000 850,000 920,000 0. 0. 0.
 GR 660,000 10,000 655,000 40,000 644,000 150,000 641,700 200,000 637,700 0.000
 GR 637,500 350,000 639,200 376,000 637,300 386,000 629,600 390,000 627,000 44,000
 GR 630,000 415,000 637,800 421,000 641,500 450,000 655,000 500,000 660,000 15,000

X1 421,500 19,000 516,000 570,000 1350,000 1350,000 1350,000 0. 0. 0.
 GR 660,000 40,000 655,000 120,000 650,000 200,000 645,400 250,000 643,000 300,000
 GR 641,200 350,000 643,000 400,000 640,400 450,000 641,200 500,000 640,300 516,000
 GR 632,400 526,000 631,700 544,000 632,200 560,000 641,800 570,000 641,400 600,000
 GR 641,200 634,000 650,000 643,000 655,000 665,000 660,000 705,000 0. 0.

X1 439,400 15,000 209,000 254,000 1540,000 1700,000 1790,000 0. 0. 0.
 GR 665,000 0. 662,500 50,000 657,200 100,000 650,000 150,000 645,600 175,000
 GR 645,700 200,000 646,800 209,000 635,700 218,000 634,900 234,000 636,600 248,000

	GR	644,000	254,000	646,200	264,000	644,200	300,000	653,000	350,000	665,000	380,000
X1		457,600	20,000	606,000	662,000	1700,000	1575,000	1825,000	0.	0.	0.
GR		675,000	0.	671,500	100,000	662,600	257,000	655,700	300,000	649,800	350,000
GR		649,200	365,000	650,700	400,000	651,200	450,000	651,400	500,000	651,700	550,000
GR		650,600	600,000	650,700	606,000	642,200	615,000	640,300	634,000	640,200	654,000
GR		649,300	662,000	650,900	700,000	671,900	745,000	672,700	750,000	675,000	772,000
NC		0,100	0,100	0,040	0,100	0,300	0.	0.	0.	0.	0.
QT		5,000	1075,000	2300,000	3000,000	3000,000	5420,000	0.	0.	0.	0.
X1		684,000	14,000	163,000	208,000	1850,000	2000,000	2640,000	0.	0.	0.
GR		674,000	0.	671,600	50,000	667,700	100,000	657,300	140,000	656,700	150,000
GR		657,200	163,000	648,300	174,000	647,800	185,000	648,200	203,000	657,400	208,000
GR		659,100	247,000	661,700	250,000	669,200	300,000	674,300	325,000	0.	0.
SB		1,250	2,000	2,900	0.	90,300	2,800	1192,000	0.	0.	0.
X1		486,000	12,000	133,000	168,000	200,000	200,000	200,000	0.	0.	0.
X2		0.	0.	1,000	667,300	669,400	0.	0.	0.	0.	0.
BT		8,000	0.	675,000	667,300	150,000	670,200	667,300	200,000	669,200	667,300
BT		210,000	669,100	667,300	255,000	669,400	667,300	300,000	669,400	667,300	350,000
BT		670,500	667,300	415,000	675,000	667,300	0.	0.	0.	0.	0.
GP		675,000	0.	672,000	50,000	671,000	60,000	657,800	107,000	655,800	133,000
GR		648,400	136,000	647,800	150,000	648,700	166,000	657,100	158,000	658,100	200,000
GR		670,200	250,000	675,000	305,000	0.	0.	0.	0.	0.	0.
X1		500,000	15,000	150,000	440,000	1550,000	950,000	1400,000	0.	0.	0.
GR		680,000	50,000	675,000	100,000	671,400	150,000	661,000	250,000	661,400	286,000
GR		651,800	295,000	652,400	317,000	661,400	320,000	660,600	350,000	661,800	375,000
GR		668,000	400,000	670,100	413,000	671,100	440,000	675,000	443,000	680,000	440,000
X1		521,000	25,000	477,000	513,000	2100,000	2100,000	2100,000	0.	0.	0.
GR		685,000	30,000	675,000	100,000	668,200	200,000	667,100	250,000	667,300	263,000
GR		662,900	266,000	662,900	279,000	667,900	286,000	667,000	300,000	666,300	350,000
GR		668,300	400,000	663,300	407,000	667,800	615,000	665,600	450,000	666,800	477,000
GR		666,400	485,000	659,100	494,000	658,600	506,000	667,700	513,000	666,500	650,000
GR		665,300	700,000	671,900	850,000	674,000	900,000	680,000	995,000	685,000	1060,000
X1		535,600	20,000	552,000	610,000	1360,000	1460,000	1460,000	0.	0.	0.
GR		680,000	0.	681,500	50,000	680,000	115,000	675,000	200,000	671,100	300,000
GR		670,200	350,000	670,300	400,000	671,000	450,000	670,700	500,000	671,300	552,000
GR		662,700	578,000	662,600	565,000	663,600	603,000	672,300	610,000	671,000	650,000
GR		670,600	700,000	670,200	800,000	670,000	850,000	671,800	898,000	675,000	905,000
GR		680,000	927,000	685,000	965,000	685,700	690,000	685,000	1015,000	0.	0.
X1		555,000	25,000	375,000	400,000	1940,000	1940,000	1940,000	0.	0.	0.
GR		700,000	0.	691,800	100,000	689,700	150,000	685,000	200,000	677,400	260,000
GR		676,300	300,000	676,300	350,000	674,700	375,000	669,700	383,000	664,300	426,000
GR		677,500	446,000	677,500	450,000	675,900	500,000	675,900	550,000	675,000	600,000
GR		675,700	650,000	676,600	663,000	681,000	668,000	682,400	695,000	682,400	700,000
GR		684,000	724,000	687,100	727,000	691,000	750,000	694,700	800,000	700,000	909,000
X1		568,700	10,000	57,000	164,000	1470,000	1320,000	1370,000	0.	0.	0.
GR		700,000	0.	690,800	43,000	682,200	57,000	679,100	40,000	678,300	109,000
GR		669,300	113,000	668,800	144,000	678,300	149,000	681,200	164,000	700,000	206,000
NC		0,150	0,150	0,130	0,300	0,500	0.	0.	0.	0.	0.
X1		582,000	15,000	164,000	208,000	1330,000	1330,000	1330,000	0.	0.	0.
GR		710,000	60,000	700,000	100,000	698,900	107,000	690,400	117,000	689,500	144,000
GR		687,700	150,000	682,500	164,000	679,600	168,000	680,000	194,000	681,000	195,000
GR		682,400	200,000	684,100	208,000	699,700	240,000	704,800	250,000	716,100	300,000
SB		1,250	2,000	2,600	0.	28,000	1,600	1584,000	2,320	0.	0.
X1		582,800	0.	0.	0.	80,000	80,000	80,000	1,000	0.	0.
X2		0.	0.	1,000	705,200	704,100	0.	0.	0.	0.	0.
BT		10,000	0.	725,000	0.	200,000	708,700	0.	350,000	703,900	0.
BT		397,000	704,100	0.	500,000	704,100	0.	600,000	705,000	0.	650,000

BT	707,400	0.	700,000	710,600	0.	800,000	718,600	0.	833,000	725,000
BT	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
X1	584,000	15,000	316,000	350,000	120,000	120,000	120,000	0.	0.	0.
GR	705,000	85,000	700,000	100,000	691,900	150,000	687,500	200,000	687,300	250,000
GR	685,000	300,000	684,800	316,000	681,500	320,000	679,000	334,000	679,100	347,000
GR	684,000	350,000	685,900	387,000	689,500	400,000	700,000	420,000	705,000	445,000
X1	591,400	27,000	392,000	452,000	740,000	740,000	740,000	0.	0.	0.
GR	702,500	0.	700,300	50,000	696,100	100,000	697,000	150,000	696,600	175,000
GR	694,000	200,000	690,900	250,000	687,300	273,000	687,200	300,000	686,900	350,000
GR	686,500	392,000	681,200	400,000	680,800	415,000	683,900	437,000	687,500	452,000
GR	688,600	460,000	694,400	469,000	694,500	477,000	686,700	484,000	689,200	500,000
GR	691,600	551,000	697,200	571,000	699,300	600,000	700,900	620,000	705,200	650,000
GR	711,300	700,000	712,500	712,000	0.	0.	0.	0.	0.	0.
X1	595,000	29,000	598,000	645,000	360,000	360,000	360,000	0.	0.	0.
GR	705,000	45,000	700,000	100,000	695,000	150,000	692,700	200,000	692,000	250,000
GR	693,300	273,000	686,500	287,000	686,300	298,000	686,400	310,000	690,800	317,000
GR	689,000	350,000	682,700	400,000	682,500	450,000	688,200	500,000	686,500	550,000
GR	687,300	598,000	685,600	600,000	681,200	605,000	681,100	617,000	681,700	635,000
GR	689,200	645,000	688,600	650,000	687,600	700,000	687,800	750,000	687,800	800,000
GR	689,300	833,000	691,500	850,000	700,000	885,000	705,000	915,000	0.	0.
X1	598,400	23,000	406,000	449,000	340,000	340,000	340,000	0.	0.	0.
GR	705,000	0.	694,900	39,000	693,000	50,000	690,400	70,000	689,600	100,000
GR	689,200	150,000	689,100	200,000	689,000	250,000	689,200	300,000	688,500	350,000
GR	688,000	400,000	687,300	406,000	682,900	414,000	681,200	426,000	681,800	438,000
GR	690,200	449,000	689,300	500,000	690,100	527,000	697,100	550,000	698,900	500,000
GR	700,300	623,000	705,300	650,000	712,500	696,000	0.	0.	0.	0.
X1	605,400	23,000	375,000	430,000	700,000	700,000	700,000	0.	0.	0.
GR	712,500	0.	709,400	50,000	705,500	100,000	701,100	150,000	696,700	200,000
GR	692,500	232,000	692,000	250,000	690,500	250,000	691,000	300,000	691,200	350,000
GR	691,600	375,000	682,200	390,000	682,000	405,000	682,400	419,000	689,900	430,000
GR	690,500	450,000	693,900	500,000	696,200	550,000	696,500	555,000	700,600	600,000
GR	705,600	650,000	713,300	700,000	715,000	765,000	0.	0.	0.	0.
X1	615,000	25,000	657,000	700,000	960,000	960,000	960,000	0.	0.	0.
GR	707,500	0.	704,900	50,000	703,900	100,000	702,700	140,000	702,600	150,000
GR	701,200	200,000	700,100	250,000	698,900	300,000	697,400	350,000	696,200	400,000
GR	694,400	450,000	692,800	500,000	692,400	536,000	692,200	550,000	692,600	600,000
GR	692,500	650,000	692,700	657,000	685,400	670,000	685,100	640,000	685,300	590,000
GR	693,600	700,000	692,400	750,000	692,000	794,000	693,400	800,000	725,000	950,000
X1	620,000	0.	0.	0.	500,000	500,000	500,000	0.	1,200	0.
X1	626,500	29,000	631,000	665,000	650,000	650,000	650,000	0.	0.	0.
GR	710,000	0.	707,700	25,000	702,600	50,000	702,600	72,000	701,800	100,000
GR	700,300	150,000	699,100	200,000	698,200	250,000	697,500	300,000	697,500	350,000
GR	697,700	360,000	698,200	400,000	697,300	450,000	696,100	500,000	695,800	550,000
GR	695,100	600,000	695,700	631,000	687,900	640,000	687,800	608,000	688,000	656,000
GR	695,200	665,000	694,800	700,000	694,900	750,000	695,200	800,000	694,400	811,000
GR	696,100	850,000	696,000	900,000	701,700	950,000	710,000	1000,000	0.	0.
QT	5,000	940,000	1800,000	2400,000	2400,000	3300,000	0.	0.	0.	0.
X1	632,000	30,000	780,000	821,000	550,000	550,000	550,000	0.	0.	0.
GR	710,000	0.	706,100	47,000	704,700	100,000	704,200	150,000	703,500	200,000
GR	703,200	250,000	702,900	300,000	700,000	370,000	700,400	389,000	700,100	400,000
GR	700,200	450,000	700,100	500,000	698,800	550,000	697,900	600,000	698,200	658,000
GR	691,500	665,000	691,300	675,000	691,600	685,000	698,500	689,000	698,000	700,000
GR	698,200	750,000	698,100	780,000	690,100	791,000	698,700	802,000	699,800	813,000
GR	697,100	821,000	697,300	850,000	705,700	900,000	711,800	950,000	717,700	1000,000
QT	5,000	860,000	1650,000	2150,000	2150,000	3700,000	0.	0.	0.	0.
X1	633,500	0.	0.	0.	150,000	150,000	150,000	1,000	0.	0.

NC	0.080	0.080	0.060	0.100	0.300	0.300	0.	0.	0.	0.
X1	641,000	17,000	340,000	400,000	750,000	750,000	750,000	0.	0.	0.
GR	715,000	90,000	710,000	120,000	705,000	175,000	704,000	200,000	700,500	250,000
GR	701,200	300,000	701,400	340,000	691,700	350,000	691,600	345,000	696,400	373,000
GP	697,800	395,000	702,100	400,000	701,600	450,000	702,500	500,000	704,000	530,000
GR	710,000	650,000	715,000	820,000	0.	0.	0.	0.	0.	0.
X1	642,000	0.	0.	0.	100,000	100,000	100,000	1,000	0.	0.
X1	642,300	0.	0.	0.	30,000	30,000	30,000	1,000	0.	0.
SB	1,250	2,040	2,600	0.	32,100	1,800	364,000	0.	0.	0.
X1	643,500	25,000	0.	0.	120,000	120,000	120,000	0.	0.	0.
X2	0.	0.	1,000	704,200	713,100	0.	0.	0.	0.	0.
BT	10,000	0.	720,600	704,200	100,000	715,000	704,200	200,000	713,200	704,200
BT	299,000	713,000	704,200	332,000	713,200	704,200	450,000	714,000	704,200	500,000
BT	714,500	704,200	550,000	715,300	704,200	600,000	716,700	704,200	700,000	720,600
BT	704,200	0.	0.	0.	0.	0.	0.	0.	0.	0.
X1	645,100	25,000	350,000	700,000	150,000	160,000	160,000	0.	0.	0.
GR	725,000	0.	714,200	100,000	711,700	150,000	704,000	300,000	702,600	350,000
GR	702,000	400,000	701,000	450,000	700,500	500,000	700,900	550,000	700,600	581,000
GR	695,000	593,000	701,600	604,000	698,300	650,000	698,300	653,000	692,500	658,000
GR	692,400	665,000	693,300	673,000	701,800	684,000	702,300	700,000	707,000	750,000
GR	714,200	800,000	714,400	812,000	714,000	825,000	719,000	850,000	725,000	925,000
NC	0,000	0,000	0,000	0,100	0,300	0.	0.	0.	0.	0.
QT	5,000	770,000	1450,000	1850,000	1850,000	3000,000	0.	0.	0.	0.
X1	664,000	24,000	519,000	590,000	1890,000	1890,000	1890,000	0.	0.	0.
GR	725,000	0.	724,000	50,000	719,900	100,000	717,700	150,000	716,600	200,000
GR	715,500	250,000	714,200	300,000	713,300	350,000	713,100	400,000	711,800	450,000
GR	707,500	480,000	707,000	500,000	706,300	539,000	697,100	556,000	696,800	560,000
GR	697,000	566,000	699,600	577,000	707,300	590,000	707,700	600,000	707,700	650,000
GP	708,600	700,000	710,600	750,000	715,100	800,000	725,000	912,000	0.	0.
SP	1,250	2,040	2,800	0.	50,500	1,000	222,000	0.	0.	0.
X1	666,000	15,000	545,000	592,000	200,000	200,000	200,000	0.	0.	0.
X2	0.	0.	1,000	706,800	708,700	0.	0.	0.	0.	0.
BT	10,000	0.	715,600	706,800	50,000	714,400	706,800	100,000	712,600	706,800
BT	200,000	711,000	706,500	300,000	709,000	706,800	325,000	708,900	706,800	377,000
BT	709,000	706,800	400,000	709,600	706,800	500,000	712,800	706,800	550,000	715,700
BT	706,800	0.	0.	0.	0.	0.	0.	0.	0.	0.
GR	725,000	0.	717,900	100,000	717,200	150,000	715,900	200,000	715,000	300,000
GR	712,500	400,000	707,200	500,000	708,300	545,000	694,400	562,000	698,700	569,000
GR	699,200	580,000	707,100	592,000	707,600	800,000	707,600	617,000	725,000	666,000
X1	679,000	25,000	337,000	366,000	1150,000	1350,000	1300,000	0.	0.	0.
GR	725,000	0.	722,100	15,000	723,000	25,000	722,900	30,000	716,100	55,000
GR	717,000	100,000	717,200	150,000	716,900	200,000	715,800	255,000	712,000	267,000
GR	711,200	300,000	709,800	337,000	702,000	345,000	701,100	355,000	701,700	363,000
GR	706,300	366,000	707,000	376,000	713,000	375,000	711,000	400,000	711,000	450,000
GR	712,500	500,000	712,200	550,000	711,700	600,000	713,600	550,000	725,000	687,000
NC	0,070	0,070	0,050	0,100	0,300	0.	0.	0.	0.	0.
QT	5,000	700,000	1250,000	1600,000	1600,000	2250,000	0.	0.	0.	0.
X1	697,000	20,000	546,000	575,000	1800,000	1800,000	1800,000	0.	0.	0.
GR	735,000	55,000	725,000	200,000	722,900	250,000	722,200	285,000	722,400	297,000
GR	717,500	400,000	717,700	450,000	717,500	500,000	718,800	546,000	708,300	557,000
GR	707,800	563,000	708,500	567,000	714,200	575,000	715,200	585,000	719,000	593,000
GR	719,400	617,000	724,700	614,000	724,900	675,000	740,000	745,000	745,000	820,000
X1	698,000	0.	0.	0.	100,000	100,000	100,000	1,000	0.	0.
X3	10,000	0.	0.	0.	0.	0.	0.	724,500	724,500	0.
X1	698,300	19,000	655,000	676,000	70,000	70,000	70,000	0.	0.	0.

HEC2 VERSION UPDATED JAN 1976
ERROR CORRECTION 01,02,03,04,05,06,07,08,09
MODIFICATIONS 52,53,54,55,56,57,58

T1 GASTONIA N C
T2 FLOOD INSURANCE
T3 CATAWBA CREEK FLOODWAY

J1	ICHECK	ING	NTNV	IDIP	STRT	METRIC	HVINS	Q	WSEL	FQ
	0.	5.	0.	0. 0.		0.	0.	0.	631.600	0.

J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	ISW	CHNIM	ITRACE
	15.000	0.	-1.000	0.	0.	0.	0.	0.	0.	0.

SUMMARY PRINTOUT FOR MULTIPLE PROFILES

CATAWBA CREEK FLOODWAY
 SECTION CHANNEL MIN FL OF MAX EL OF MIN EL DISCHARGE
 CWSL TO EG TOPMID STENCIL STENCH WSELK
 NUMBER LENGTH ROADWAY LTM CHORD (CFS)

380.00	0.	0.	616.00	3400.00	630.60	1707.85	630.72	577.37	0.	630.60
380.00	0.	0.	616.00	3400.00	631.40	1650.54	631.75	247.44	188.00	630.60
383.00	0.	0.	616.70	3400.00	630.69	1655.54	631.80	238.20	170.00	630.69
383.00	300.00	0.	616.70	3400.00	630.69	1549.01	631.80	238.20	0.	630.69
388.60	560.00	0.	617.30	3400.00	630.90	1122.27	631.24	155.80	0.	630.90
388.60	560.00	0.	617.30	3400.00	631.94	1140.39	632.30	42.00	340.00	630.90
399.50	1090.00	0.	619.80	3400.00	632.15	456.44	633.59	47.58	0.	630.90
399.50	1090.00	0.	619.80	3400.00	633.20	547.20	634.29	50.48	179.00	632.15
408.00	920.00	0.	627.00	3400.00	639.34	358.35	640.07	174.12	0.	630.90
408.00	920.00	0.	627.00	3400.00	639.09	320.96	639.96	163.58	200.00	639.34
421.50	1350.00	0.	631.70	3400.00	643.39	934.56	643.83	344.64	0.	643.39
421.50	1350.00	0.	631.70	3400.00	643.91	854.32	644.51	54.00	516.00	643.39
439.40	1790.00	0.	634.90	3400.00	646.45	611.14	647.43	139.28	0.	646.45
439.40	1790.00	0.	634.90	3400.00	647.23	676.75	648.13	45.00	209.00	646.45
457.60	1825.00	0.	640.20	3400.00	651.24	769.24	651.88	251.55	0.	651.24
457.60	1825.00	0.	640.20	3400.00	651.49	775.21	652.15	56.00	606.00	651.24
484.00	2640.00	0.	647.80	3000.00	657.78	484.54	658.82	78.78	0.	657.78
484.00	2640.00	0.	647.80	3000.00	657.94	495.10	658.96	45.00	163.00	657.78
486.00	200.00	669.40	647.80	3000.00	657.92	433.87	659.23	47.60	0.	657.92
486.00	200.00	669.40	647.80	3000.00	658.92	530.68	659.90	100.36	0.	657.92
500.00	1400.00	0.	651.80	3000.00	663.76	595.28	664.09	159.47	0.	663.76
500.00	1400.00	0.	651.80	3000.00	663.70	581.43	664.04	158.56	150.00	663.76
521.00	2100.00	0.	658.40	3000.00	668.75	634.11	669.10	586.59	0.	668.75
521.00	2100.00	0.	658.40	3000.00	669.36	552.62	670.01	252.34	354.73	668.75
535.60	1460.00	0.	662.60	3000.00	672.03	613.17	672.87	613.55	0.	672.03
535.60	1460.00	0.	662.60	3000.00	673.14	621.79	673.80	109.24	552.00	672.03
555.00	1840.00	0.	664.30	3000.00	675.96	711.95	676.46	243.74	0.	675.96
555.00	1840.00	0.	664.30	3000.00	676.78	814.26	677.21	79.92	375.40	675.96
568.70	1370.00	0.	668.80	3000.00	679.70	413.11	680.43	96.83	0.	679.70
568.70	1370.00	0.	668.80	3000.00	679.80	426.33	680.49	97.43	57.00	679.70
582.00	1330.00	0.	679.60	3000.00	690.64	257.82	691.13	104.70	0.	690.64
582.00	1330.00	0.	679.60	3000.00	691.30	220.45	691.95	44.00	164.00	690.64
582.80	80.00	704.10	705.20	679.60	690.68	259.97	691.17	104.83	0.	690.68
582.80	80.00	704.10	705.20	679.60	691.68	317.40	692.04	108.06	0.	690.68
584.00	120.00	0.	679.00	3000.00	691.89	512.02	691.98	254.40	0.	691.89
584.00	120.00	0.	679.00	3000.00	692.63	511.47	692.74	150.17	221.13	691.89

SECTION NUMBER	CHANNEL LENGTH	MIN EL OF ROADWAY	MAX EL OF LOW CHORD	MIN EL GROUND	DISCHARGE (CFS)	CWSEL	TQ	PG	TOPWID	STENCL	STENCH	WSELK
591.40	740.00	0.	0.	680.80	3000.00	693.61	728.72	693.66	341.67	0.	0.	0.
591.40	740.00	0.	0.	680.80	3000.00	694.47	712.35	694.54	175.99	286.33	462.32	693.61
595.00	360.00	0.	0.	681.10	3000.00	693.90	1645.56	693.90	685.83	0.	0.	0.
595.00	360.00	0.	0.	681.10	3000.00	694.78	1611.87	694.79	410.92	349.41	760.33	693.90
598.40	340.00	0.	0.	681.20	3000.00	694.09	833.16	694.11	406.39	0.	0.	0.
598.40	340.00	0.	0.	681.20	3000.00	694.98	813.29	695.01	311.27	140.25	451.51	694.09
605.40	700.00	0.	0.	682.00	3000.00	695.37	549.78	695.46	321.82	0.	0.	0.
605.40	700.00	0.	0.	682.00	3000.00	696.31	541.84	696.43	141.07	280.50	441.57	695.37
615.00	960.00	0.	0.	685.10	3000.00	697.68	692.61	697.72	479.57	0.	0.	0.
615.00	960.00	0.	0.	685.10	3000.00	698.66	603.10	698.71	263.05	490.51	753.56	697.68
620.00	500.00	0.	0.	686.30	3000.00	698.67	650.51	698.72	471.79	0.	0.	0.
620.00	500.00	0.	0.	686.30	3000.00	699.66	608.16	699.72	256.49	495.71	752.20	698.67
626.50	650.00	0.	0.	687.80	3000.00	699.93	725.14	699.96	760.76	0.	0.	0.
626.50	650.00	0.	0.	687.80	3000.00	700.93	725.64	700.96	361.16	437.17	798.33	699.93
632.00	550.00	0.	0.	689.80	2400.00	701.20	398.26	701.24	532.03	0.	0.	0.
632.00	550.00	0.	0.	689.80	2400.00	702.20	399.86	702.26	209.32	611.68	821.00	701.20
633.50	150.00	0.	0.	689.80	2150.00	701.62	473.87	701.65	544.96	0.	0.	0.
633.50	150.00	0.	0.	689.80	2150.00	702.66	470.27	702.69	233.88	587.12	821.00	701.62
641.00	750.00	0.	0.	691.60	2150.00	703.02	482.47	703.22	295.98	0.	0.	0.
641.00	750.00	0.	0.	691.60	2150.00	704.02	481.70	704.29	60.00	340.00	400.00	703.02
642.00	100.00	0.	0.	691.60	2150.00	703.23	520.74	703.41	545.35	0.	0.	0.
642.00	100.00	0.	0.	691.60	2150.00	704.23	510.19	704.48	65.73	334.27	400.00	703.23
642.30	30.00	0.	0.	691.60	2150.00	703.29	532.24	703.46	305.32	0.	0.	0.
642.30	30.00	0.	0.	691.60	2150.00	704.30	521.76	704.54	70.62	329.38	400.00	703.29
645.10	160.00	0.	0.	692.40	2150.00	703.63	636.68	703.69	399.97	0.	0.	0.
645.10	160.00	0.	0.	692.40	2150.00	704.64	981.14	704.67	350.00	350.00	700.00	703.63
664.00	1890.00	0.	0.	696.80	1850.00	706.36	351.39	706.94	52.58	0.	0.	0.
664.00	1890.00	0.	0.	696.80	1850.00	705.98	322.05	706.65	48.19	539.00	590.00	706.36
666.00	200.00	0.	0.	698.70	1850.00	707.95	347.54	708.56	117.47	0.	0.	0.
666.00	200.00	0.	0.	698.70	1850.00	707.57	311.30	708.30	45.61	545.00	592.00	707.95
679.00	1300.00	0.	0.	701.10	1850.00	711.28	386.75	711.86	143.45	0.	0.	0.
679.00	1300.00	0.	0.	701.10	1850.00	711.68	340.78	712.51	29.00	337.00	366.00	711.28
697.00	1800.00	0.	0.	707.80	1600.00	717.89	189.45	718.42	42.46	0.	0.	0.
697.00	1800.00	0.	0.	707.80	1600.00	718.53	218.19	719.38	28.72	546.00	575.00	717.89
698.00	100.00	0.	0.	707.80	1600.00	718.15	202.56	719.09	28.32	0.	0.	0.
698.00	100.00	0.	0.	707.80	1600.00	719.14	245.43	719.86	29.00	546.00	575.00	718.15

SECTION NUMBER	CHANNEL LENGTH	MIN EL OF ROADWAY	MAX EL OF LOW CHORD	MIN EL OF GROUND	DISCHARGE (CFS)	CWSEL	TD	FG	TOPWID	STENCL	STENCH	WSELK
698.30	70.00	724.10	718.10	708.20	1600.00	717.80	66.23	720.66	21.00	0.	0.	0.
698.30	70.00	724.10	718.10	708.20	1600.00	718.50	59.16	721.24	21.00	0.	0.	717.80
699.00	70.00	0.	0.	709.00	1600.00	721.02	548.99	721.12	304.47	0.	0.	0.
699.00	70.00	0.	0.	709.00	1600.00	721.57	480.09	721.74	118.00	465.00	583.00	721.02
701.00	110.00	0.	0.	709.00	1600.00	721.11	571.85	721.21	308.57	0.	0.	0.
701.00	110.00	0.	0.	709.00	1600.00	721.70	504.76	721.86	122.83	460.17	583.00	721.11
701.50	150.00	0.	0.	709.00	1600.00	721.24	600.85	721.33	353.59	0.	0.	0.
701.50	150.00	0.	0.	709.00	1600.00	721.87	535.74	722.00	128.52	454.48	583.00	721.24
705.30	380.00	0.	0.	711.70	1600.00	721.41	207.26	722.10	104.35	0.	0.	0.
705.30	380.00	0.	0.	711.70	1600.00	722.18	229.89	722.82	36.98	363.00	401.00	721.41
707.30	200.00	746.60	744.50	712.70	1600.00	721.52	236.76	722.15	101.97	0.	0.	0.
707.30	200.00	746.60	744.50	712.70	1600.00	722.52	334.44	722.85	237.38	0.	0.	721.52
720.90	1360.00	0.	0.	718.30	1600.00	728.39	210.80	729.13	187.72	0.	0.	0.
720.90	1360.00	0.	0.	718.30	1600.00	727.52	168.62	728.57	32.80	429.00	474.00	728.39
727.50	660.00	0.	0.	721.00	1600.00	732.94	295.89	733.80	18.00	0.	0.	0.
727.50	660.00	0.	0.	721.00	1600.00	732.07	213.66	733.07	18.00	491.00	509.00	732.94
729.00	150.00	0.	0.	721.90	1600.00	733.93	839.07	734.00	389.56	0.	0.	0.
729.00	150.00	0.	0.	721.90	1600.00	733.24	607.59	733.38	71.52	644.48	716.00	733.93
740.00	1100.00	0.	0.	727.90	1600.00	736.39	132.72	737.57	153.38	0.	0.	0.
740.00	1100.00	0.	0.	727.90	1600.00	736.25	96.19	738.82	25.00	430.00	455.00	736.39

SECTION NUMBER	DISCHARGE CFS	CWSEL	CWSEL DIFF EACH Q	CWSEL DIFF EACH SECTION	CWSEL-WSELK	TOPWID	T.W. DIFF	LENGTH
380.000	3400.000	630.600	0.	0.	0.	577.373	0.	0.
380.000	3400.000	631.600	1.000	0.	0.	267.804	309.528	0.
383.000	3400.000	630.692	0.	0.092	0.	495.084	0.	300.000
383.000	3400.000	631.702	1.009	0.102	1.009	238.200	256.883	300.000
388.600	3400.000	630.903	0.	0.211	0.	155.798	0.	560.000
388.600	3400.000	631.936	1.034	0.235	1.034	62.001	93.797	560.000
399.500	3400.000	632.154	0.	1.251	0.	47.582	0.	1090.000
399.500	3400.000	633.195	1.041	1.259	1.041	50.479	-2.897	1090.000
406.000	3400.000	639.341	0.	7.187	0.	174.118	0.	920.000
406.000	3400.000	639.089	-0.252	5.894	-0.252	163.579	10.539	920.000
421.500	3400.000	643.393	0.	4.052	0.	304.600	0.	1350.000
421.500	3400.000	643.913	0.519	4.823	0.519	54.001	290.639	1350.000
439.400	3400.000	646.447	0.	3.054	0.	139.282	0.	1790.000
439.400	3400.000	647.231	0.783	3.318	0.783	45.001	94.241	1790.000
457.600	3400.000	651.238	0.	4.791	0.	251.549	0.	1825.000
457.600	3400.000	651.488	0.250	4.258	0.250	56.001	165.508	1825.000
484.000	3000.000	657.782	0.	6.544	0.	78.777	0.	2640.000
484.000	3000.000	657.944	0.162	6.456	0.162	45.001	33.776	2640.000
486.000	3000.000	657.918	0.	0.137	0.	87.602	0.	200.000

486,000	3000,000	658,918	1,000	0,974	1,000	100,362	-12,760	-200,000
500,000	3000,000	663,762	0.	5,844	0.	159,446	0.	1400,000
500,000	3000,000	663,695	-0,067	4,777	-0,067	158,564	0,902	1400,000
521,000	3000,000	668,753	0.	4,991	0.	586,594	0.	2100,000
521,000	3000,000	669,359	0,606	5,664	0,606	252,341	334,253	2100,000
535,600	3000,000	672,025	0.	3,272	0.	613,554	0.	1460,000
535,600	3000,000	673,163	1,138	3,804	1,138	109,239	504,315	1460,000
555,000	3000,000	675,958	0.	3,933	0.	243,761	0.	1940,000
555,000	3000,000	676,784	0,825	3,620	0,825	69,922	173,839	1940,000
568,700	3000,000	679,700	0.	3,742	0.	96,830	0.	1370,000
568,700	3000,000	679,797	0,096	3,013	0,096	97,426	-0,596	1370,000
582,000	3000,000	690,640	0.	10,940	0.	104,697	0.	1330,000
582,000	3000,000	691,300	0,660	11,503	0,660	44,001	60,696	1330,000
582,800	3000,000	690,680	0.	0,040	0.	104,827	0.	80,000
582,800	3000,000	691,680	1,000	0,380	1,000	108,055	-3,228	80,000
584,000	3000,000	691,889	0.	1,209	0.	254,399	0.	120,000
584,000	3000,000	692,626	0,737	0,946	0,737	150,172	104,228	120,000
591,400	3000,000	693,613	0.	1,724	0.	341,666	0.	740,000
591,400	3000,000	694,470	0,857	1,844	0,857	175,991	165,675	740,000
595,000	3000,000	693,696	0.	0,283	0.	685,827	0.	360,000
595,000	3000,000	694,781	0,885	0,311	0,885	410,915	274,911	360,000
598,400	3000,000	694,086	0.	0,190	0.	496,385	0.	340,000
598,400	3000,000	694,977	0,891	0,195	0,891	311,268	185,117	340,000
605,400	3000,000	695,372	0.	1,286	0.	321,821	0.	700,000
605,400	3000,000	696,308	0,936	1,331	0,936	161,075	160,746	700,000
615,000	3000,000	697,679	0.	2,307	0.	479,566	0.	960,000
615,000	3000,000	698,662	0,984	2,354	0,984	263,046	216,520	960,000
620,000	3000,000	698,674	0.	0,996	0.	471,794	0.	500,000
620,000	3000,000	699,660	0,985	0,998	0,985	256,489	215,305	500,000
626,500	3000,000	699,932	0.	1,257	0.	760,784	0.	650,000
626,500	3000,000	700,925	0,994	1,266	0,994	361,161	399,003	650,000
632,000	2400,000	701,195	0.	1,263	0.	532,026	0.	550,000
632,000	2400,000	702,200	1,005	1,275	1,005	209,322	322,704	550,000
633,500	2150,000	701,625	0.	0,430	0.	544,960	0.	150,000
633,500	2150,000	702,656	1,031	0,455	1,031	233,877	311,083	150,000
641,000	2150,000	703,016	0.	1,391	0.	295,983	0.	750,000
641,000	2150,000	704,021	1,006	1,365	1,006	60,001	275,982	750,000
642,000	2150,000	703,229	0.	0,213	0.	303,227	0.	100,000
642,000	2150,000	704,233	1,004	0,212	1,004	65,728	237,499	100,000
642,300	2150,000	703,287	0.	0,058	0.	305,322	0.	30,000
642,300	2150,000	704,297	1,011	0,064	1,011	70,617	274,704	30,000
645,100	2150,000	703,633	0.	0,347	0.	399,969	0.	160,000
645,100	2150,000	704,644	1,011	0,347	1,011	350,001	49,968	160,000
664,000	1850,000	706,356	0.	2,722	0.	52,577	0.	1890,000

664.000	1850.000	705.980	-0.376	1.336	-0.376	48.186	4.390	1890.000
666.000	1850.000	707.950	0.	1.598	0.	117.472	0.	200.000
666.000	1850.000	707.574	-0.376	1.594	-0.376	45.614	71.858	200.000
679.000	1850.000	711.283	0.	3.333	0.	143.451	0.	1300.000
679.000	1850.000	711.682	0.399	4.109	0.399	29.001	114.450	1300.000
697.000	1600.000	717.492	0.	6.209	0.	42.455	0.	1800.000
697.000	1600.000	718.528	1.036	6.846	1.036	28.716	13.739	1800.000
698.000	1600.000	718.151	0.	0.659	0.	28.320	0.	100.000
698.000	1600.000	719.141	0.990	0.613	0.990	29.000	-0.680	100.000
698.300	1600.000	717.797	0.	-0.354	0.	21.000	0.	70.000
698.300	1600.000	718.504	0.707	-0.637	0.707	21.000	0.	70.000
699.000	1600.000	721.016	0.	3.219	0.	344.475	0.	70.000
699.000	1600.000	721.567	0.552	3.063	0.552	117.995	226.479	70.000
701.000	1600.000	721.115	0.	0.099	0.	348.567	0.	110.000
701.000	1600.000	721.703	0.588	0.135	0.588	122.832	225.736	110.000
701.500	1600.000	721.237	0.	0.122	0.	353.592	0.	150.000
701.500	1600.000	721.865	0.628	0.162	0.628	128.516	225.077	150.000
705.300	1600.000	721.414	0.	0.177	0.	144.350	0.	380.000
705.300	1600.000	722.177	0.763	0.312	0.763	36.985	107.365	380.000
707.300	1600.000	721.518	0.	0.104	0.	101.969	0.	200.000
707.300	1600.000	722.518	1.000	0.341	1.000	237.377	-135.408	200.000
720.900	1600.000	728.395	0.	6.877	0.	187.723	0.	1360.000
720.900	1600.000	727.519	-0.876	5.001	-0.876	32.798	154.925	1360.000
727.500	1600.000	732.944	0.	4.549	0.	18.000	0.	660.000
727.500	1600.000	732.068	-0.876	4.549	-0.876	18.000	0.	660.000
729.000	1600.000	733.928	0.	0.984	0.	389.561	0.	150.000
729.000	1600.000	733.240	-0.688	1.172	-0.688	71.524	318.037	150.000
740.000	1600.000	736.393	0.	2.464	0.	153.380	0.	1100.000
740.000	1600.000	736.248	-0.145	3.068	-0.145	25.001	128.379	1100.000

DATA FOR LAST CROSS SECTION

PROFILE	TYPE ENC	TARGET	TOP WIDTH AREA=ACRES	TOP WIDTH AREA=DIFF
1	0.	0.	214.932	0.
2	4.000	0.352	98.485	-116.447

 INTERACTIVE HEC2 VERSION UPDATED FEB 197A
 ERROR CORRECTIONS 01,02,03,04,05,06,07,08,09
 MODIFICATIONS 50,51,52,53,54,55,56,57,58

Floodway

T1 GASTONIA N C
 T2 FLOOD INSURANCE
 T3 CATAWBA CREEK 100-YR W

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FD
	0.	4.	0.	0.	0.000000	0.00	0.0	0.	736.400	-0.000
J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLOC	IRW	CHNTH	TTRACE
	1.000	-0.000	-1.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000
J3	1.000	34.000	3.000	4.000	27.000	28.000	26.000	-0.000	-0.000	-0.000
NC	.100	.100	.050	.100	.300	-0.000	-0.000	-0.000	-0.000	-0.000
QT	5.000	600.000	1280.000	1600.000	1600.000	2300.000	-0.000	-0.000	-0.000	-0.000
ET	-0.000	-0.000	-0.000	-0.000	10.400	-0.000	-0.000	-0.000	-0.000	-0.000
X1	740.700	15.000	430.000	455.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000
GR	750.000	70.000	745.000	230.000	740.400	300.000	735.900	150.000	734.400	400.000
GR	735.000	430.000	727.900	444.000	734.200	455.000	736.500	500.000	742.300	600.000
GR	741.300	650.000	744.200	750.000	747.500	800.000	746.000	850.000	751.000	912.000
X1	741.000	0.000	0.000	0.000	30.000	30.000	30.000	1.000	0.000	-0.000
X3	10.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	740.000	740.000	-0.000
SB	.010	1.050	2.500	200.000	5.000	0.000	50.240	0.000	729.000	728.700
X1	741.800	10.000	552.000	555.000	80.000	80.000	80.000	-0.000	-0.000	-0.000
X2	-0.000	-0.000	1.000	730.000	740.600	-0.000	-0.000	-0.000	-0.000	-0.000
X3	10.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	741.000	741.000	-0.000
GR	750.000	0.000	754.000	552.000	738.000	553.000	733.000	553.000	729.400	559.500
GR	738.000	559.500	741.000	560.000	740.300	600.000	742.500	650.000	744.300	900.000
X1	742.000	8.000	553.000	555.000	20.000	20.000	20.000	-0.000	-0.000	-0.000
GR	750.000	0.000	740.500	400.000	733.000	553.000	729.400	559.500	741.000	560.000
GR	740.300	600.000	742.500	850.000	744.300	900.000	-0.000	-0.000	-0.000	-0.000
X1	742.800	15.000	330.000	325.000	80.000	80.000	80.000	0.000	0.000	-0.000
X3	10.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	740.000	740.000	-0.000
GR	750.000	20.000	745.000	150.000	741.000	200.000	740.600	220.000	740.600	250.000
GR	735.700	300.000	736.000	330.000	730.700	342.000	730.300	347.000	730.800	354.000
GR	732.300	357.000	737.100	400.000	738.200	450.000	738.600	483.000	750.000	513.000
SB	1.250	2.040	2.600	0.000	20.300	.500	156.000	0.000	0.000	0.000
X1	745.000	20.000	478.000	490.000	220.000	220.000	220.000	0.000	0.000	-0.000
X2	0.000	0.000	1.000	739.800	741.300	-0.000	-0.000	-0.000	-0.000	-0.000
X3	10.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	740.000	740.000	-0.000
BT	10.000	0.000	750.000	739.800	100.000	747.000	739.800	200.000	743.800	739.800
BT	300.000	740.600	739.800	450.000	742.500	739.800	500.000	743.100	739.800	550.000
BT	744.100	739.800	650.000	746.300	739.800	700.000	749.200	739.800	714.000	750.000
BT	739.800	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000
GR	751.400	0.000	750.800	27.000	750.000	37.000	743.200	50.000	742.700	100.000
GR	742.900	150.000	742.600	200.000	741.700	300.000	737.200	350.000	737.000	400.000
GR	737.200	450.000	740.000	457.000	733.800	465.000	737.900	478.000	732.200	484.000

GR	732,000	488,000	732,200	497,000	737,200	500,000	743,700	550,000	749,400	600,000
X1	746,000	-0,000	-0,000	-0,000	100,000	100,000	100,000	-0,000	-0,000	-0,000
Y1	752,500	14,000	548,000	555,000	650,000	650,000	650,000	0,000	0,000	-0,000
GR	765,000	55,000	755,000	160,000	750,000	300,000	744,500	350,000	740,000	400,000
GR	742,500	414,000	742,300	450,000	741,700	500,000	740,800	548,000	736,300	553,000
GR	740,400	556,000	742,700	600,000	745,200	624,000	765,000	685,000	-0,000	-0,000
X1	753,500	-0,000	-0,000	-0,000	100,000	100,000	100,000	-0,000	-0,000	-0,000
X3	10,000	-0,000	-0,000	-0,000	-0,000	-0,000	-0,000	744,200	744,200	-0,000
SB	0,000	1,500	2,500	0,000	7,000	0,000	40,000	-0,000	737,700	737,200
X1	754,000	14,000	746,500	253,500	50,000	50,000	50,000	-0,000	-0,000	-0,000
X2	-0,000	-0,000	1,000	740,700	746,400	-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	746,400	746,400	-0,000
BT	10,000	0,000	750,000	0,000	50,000	750,600	0,000	746,500	746,400	741,300
BT	247,500	746,400	743,800	250,000	746,400	744,800	252,500	746,400	743,800	253,500
BT	746,400	741,300	300,000	749,500	0,000	350,000	753,700	0,000	400,000	753,700
BT	0,000	-0,000	-0,000	-0,000	-0,000	-0,000	-0,000	-0,000	-0,000	-0,000
GR	755,000	0,000	752,500	50,000	750,400	100,000	745,600	150,000	742,500	200,000
GR	742,400	246,400	741,300	746,500	738,800	247,500	737,800	250,000	738,600	252,500
GR	741,300	253,500	742,800	300,000	744,600	350,000	756,000	400,000	-0,000	-0,000
X1	754,500	12,000	740,000	259,000	50,000	50,000	50,000	-0,000	-0,000	-0,000
BT	5,000	600,000	1050,000	1240,000	1240,000	1600,000	-0,000	-0,000	-0,000	-0,000
GR	755,000	0,000	750,400	100,000	745,700	150,000	742,600	200,000	741,700	240,000
GR	738,400	245,000	738,200	250,000	738,400	255,000	739,800	259,000	742,800	300,000
GR	744,400	350,000	756,100	400,000	-0,000	-0,000	-0,000	-0,000	-0,000	-0,000
X1	758,500	14,000	488,000	510,000	400,000	400,000	400,000	-0,000	-0,000	-0,000
GR	770,000	0,000	765,000	140,000	761,100	300,000	758,100	350,000	757,000	400,000
GR	756,600	450,000	754,200	488,000	747,000	494,000	745,300	500,000	746,600	503,000
GR	752,800	510,000	757,600	550,000	765,000	650,000	770,000	680,000	-0,000	-0,000
X1	760,000	16,000	182,000	220,000	150,000	150,000	150,000	-0,000	-0,000	-0,000
GR	768,500	0,000	765,000	50,000	761,200	96,000	758,100	100,000	756,400	150,000
GR	756,900	182,000	747,100	198,000	746,900	200,000	747,200	202,000	755,600	220,000
GR	757,300	250,000	758,000	285,000	760,300	300,000	765,000	400,000	765,000	450,000
GR	770,000	500,000	-0,000	-0,000	-0,000	-0,000	-0,000	-0,000	-0,000	-0,000
X1	760,500	-0,000	-0,000	-0,000	50,000	50,000	50,000	-0,000	-0,000	-0,000
X3	10,000	-0,000	-0,000	-0,000	-0,000	-0,000	-0,000	756,200	756,200	-0,000
SB	1,250	1,500	2,500	0,000	9,000	2,000	53,900	0,000	-0,000	-0,000
X1	761,500	13,000	195,500	200,500	100,000	100,000	100,000	-0,000	-0,000	-0,000
X2	-0,000	-0,000	1,000	757,000	759,000	-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	759,000	759,000	-0,000
BT	0,000	0,000	768,900	0,000	50,000	760,400	0,000	100,000	761,200	0,000
BT	150,000	759,500	0,000	195,500	759,000	757,000	204,500	759,000	757,000	250,000
BT	750,600	0,000	300,000	760,800	0,000	500,000	763,600	0,000	-0,000	-0,000
GR	766,200	0,000	765,200	25,000	765,100	50,000	759,100	100,000	759,100	150,000
GR	758,100	190,000	757,000	195,500	749,000	195,500	749,000	204,500	757,000	204,500
GR	759,600	250,000	761,800	300,000	765,000	500,000	-0,000	-0,000	-0,000	-0,000
X1	762,000	13,000	190,000	215,000	50,000	50,000	50,000	-0,000	-0,000	-0,000
GR	766,300	0,000	765,200	25,000	765,100	50,000	759,200	100,000	759,100	150,000
GR	758,100	190,000	750,300	197,000	750,000	200,000	749,700	203,000	759,000	215,000
GR	760,200	250,000	761,800	300,000	765,000	500,000	-0,000	-0,000	-0,000	-0,000
X1	767,000	13,000	180,000	170,000	500,000	500,000	500,000	-0,000	-0,000	-0,000
GR	777,200	0,000	777,400	20,000	775,900	23,000	774,600	50,000	766,600	100,000
GR	756,900	184,000	755,000	148,000	754,100	150,000	754,300	152,000	766,100	170,000
GR	765,700	200,000	765,700	230,000	775,000	270,000	-0,000	-0,000	-0,000	-0,000
BT	5,000	420,000	740,000	860,000	860,000	1130,000	-0,000	-0,000	-0,000	-0,000

SUMMARY PRINTOUT

CATAWBA CREEK 100-YR D

SECNO	XLCH	EI TRD	EI LCC	EI M FN	Q	CWSFL	QIK	EG	TOPWTD	STENCL	STENCR	VCH
* 740.70	-0.00	0.00	0.00	727.90	1600.00	736.49	139.43	737.57	156.35	0.00	0.00	9.43
740.70	-0.00	0.00	0.00	727.90	1600.00	737.40	132.68	739.09	25.00	430.00	455.00	10.45
* 741.00	30.00	0.00	0.00	727.90	1600.00	736.30	99.11	738.82	25.00	0.00	0.00	12.74
741.00	30.00	0.00	0.00	727.90	1600.00	738.15	158.12	739.49	25.00	430.00	455.00	9.31
* 741.60	80.00	740.60	739.60	729.40	1600.00	742.30	123.25	742.71	409.95	0.00	0.00	7.92
741.60	80.00	999999.00	0.00	729.40	1600.00	744.15	214.39	744.34	135.60	551.38	686.98	5.12
742.00	20.00	0.00	0.00	729.40	1600.00	742.77	613.33	742.79	552.79	0.00	0.00	2.00
742.00	20.00	0.00	0.00	729.40	1600.00	744.35	800.79	744.37	200.54	425.19	625.73	1.67
742.80	80.00	0.00	0.00	730.30	1600.00	742.79	1234.43	742.82	316.33	0.00	0.00	1.66
742.80	80.00	0.00	0.00	730.30	1600.00	744.36	1391.70	744.39	140.07	287.84	427.90	1.64
745.00	220.00	741.30	739.80	732.00	1600.00	743.14	766.04	743.18	489.59	0.00	0.00	2.49
745.00	220.00	999999.00	0.00	732.00	1600.00	744.71	807.92	744.75	142.12	357.88	500.00	2.21
746.00	100.00	0.00	0.00	732.00	1600.00	743.18	774.86	743.22	493.58	0.00	0.00	2.46
746.00	100.00	0.00	0.00	732.00	1600.00	744.75	816.05	744.79	142.63	357.37	500.00	2.19
752.50	650.00	0.00	0.00	736.30	1600.00	743.81	147.21	744.07	252.88	0.00	0.00	7.60
752.50	650.00	0.00	0.00	736.30	1600.00	745.29	173.13	745.54	116.76	439.24	556.00	6.05
753.50	100.00	0.00	0.00	736.30	1600.00	744.65	244.18	744.76	270.00	0.00	0.00	5.05
753.50	100.00	0.00	0.00	736.30	1600.00	745.92	269.83	746.07	147.21	410.12	557.33	5.18
754.00	50.00	746.40	744.70	737.80	1600.00	749.33	718.83	749.35	259.53	0.00	0.00	2.37
754.00	50.00	999999.00	0.00	737.80	1600.00	750.60	788.62	750.63	153.68	172.80	326.48	2.33
754.50	50.00	0.00	0.00	738.20	1240.00	749.35	907.07	749.37	259.92	0.00	0.00	1.86
754.50	50.00	0.00	0.00	738.20	1240.00	750.62	980.73	750.64	146.82	177.43	324.25	1.86
* 758.50	400.00	0.00	0.00	745.30	1240.00	752.95	71.01	755.37	22.20	0.00	0.00	12.49
* 758.50	400.00	0.00	0.00	745.30	1240.00	752.94	70.87	755.37	20.95	488.00	510.00	12.50
760.00	150.00	0.00	0.00	746.90	1240.00	756.53	173.01	757.11	65.43	0.00	0.00	6.09
760.00	150.00	0.00	0.00	746.90	1240.00	756.53	172.68	757.11	37.40	142.00	220.00	6.11
760.50	50.00	0.00	0.00	746.90	1240.00	756.85	190.13	757.35	101.90	0.00	0.00	5.71
760.50	50.00	0.00	0.00	746.90	1240.00	756.84	187.45	757.35	37.90	142.00	220.00	5.78
* 761.50	100.00	759.00	757.00	749.00	1240.00	759.99	110.63	760.73	166.59	0.00	0.00	8.30
* 761.50	100.00	999999.00	0.00	749.00	1240.00	759.98	89.00	761.39	43.68	165.96	209.64	10.35
762.00	50.00	0.00	0.00	749.70	1240.00	760.68	221.73	761.05	177.71	0.00	0.00	5.40
762.00	50.00	0.00	0.00	749.70	1240.00	761.26	194.81	761.85	25.85	189.15	215.00	6.17
767.00	500.00	0.00	0.00	754.10	1240.00	762.86	124.31	763.79	48.08	0.00	0.00	8.49
767.00	500.00	0.00	0.00	754.10	1240.00	764.11	113.81	765.24	23.96	144.00	170.00	8.56
769.50	250.00	0.00	0.00	756.40	860.00	765.14	129.57	765.55	69.02	0.00	0.00	5.48
769.50	250.00	0.00	0.00	756.40	860.00	766.59	143.24	766.99	26.78	140.00	192.00	5.02

SECNO	XLCH	ELTFD	ELLC	ELMIN	Q	CWSEL	.01K	EG	TOPWD	STENCL	STENCR	VCH
770.00	50.00	0.00	0.00	756.40	860.00	765.40	140.96	765.76	79.20	0.00	0.00	5.16
770.00	50.00	0.00	0.00	756.40	860.00	766.74	149.14	767.16	27.09	160.00	192.00	0.84
771.00	100.00	770.60	762.90	757.90	860.00	771.92	842.07	771.93	397.10	0.00	200.00	1.02
771.00	100.00	999999.00	0.00	757.90	860.00	773.31	922.03	773.31	189.03	106.48	295.52	0.99
772.00	100.00	0.00	0.00	760.30	860.00	771.93	950.97	771.93	386.94	0.00	2.00	1.01
772.00	100.00	0.00	0.00	760.30	860.00	773.32	1030.64	773.32	195.95	103.94	299.89	1.01
774.50	250.00	0.00	0.00	760.30	860.00	771.95	957.37	771.96	386.96	0.00	0.00	1.00
774.50	250.00	0.00	0.00	760.30	860.00	773.33	1036.69	773.34	196.75	103.58	300.33	1.00

SUMMARY PRINTOUT

CATAWBA CREEK 100-YR W

SECNO	R	CMSFL	DIFWSP	DIFWBY	DIFWNS	TOPWID	XLCH
* 740.70	1600.00	736.49	0.00	736.49	.00	156.35	=0.00
740.70	1600.00	737.40	.91	737.40	.91	25.00	=0.00
* 741.00	1600.00	736.30	0.00	-.19	0.00	25.00	30.00
741.00	1600.00	738.15	1.85	.75	1.85	25.00	30.00
* 741.80	1600.00	742.30	0.00	6.00	0.00	409.95	80.00
741.80	1600.00	744.15	1.85	6.00	1.85	135.60	80.00
742.00	1600.00	742.77	0.00	.47	0.00	552.79	20.00
742.00	1600.00	744.35	1.50	.20	1.50	200.54	20.00
742.60	1600.00	742.79	0.00	.02	0.00	316.33	80.00
742.80	1600.00	744.34	1.58	.01	1.58	140.07	80.00
745.00	1600.00	743.14	0.00	.35	0.00	489.59	220.00
745.00	1600.00	744.71	1.58	.35	1.58	142.12	220.00
746.00	1600.00	743.18	0.00	.04	0.00	493.58	100.00
746.00	1600.00	744.75	1.57	.04	1.57	142.63	100.00
752.50	1600.00	743.81	0.00	.62	0.00	252.88	650.00
752.50	1600.00	745.29	1.48	.53	1.48	116.76	650.00
753.50	1600.00	744.65	0.00	.84	0.00	270.00	100.00
753.50	1600.00	745.92	1.28	.63	1.28	147.21	100.00
754.00	1600.00	749.33	0.00	4.68	0.00	259.53	50.00
754.00	1600.00	750.60	1.28	4.68	1.28	153.68	50.00
754.50	1240.00	749.35	0.00	.02	0.00	259.92	50.00
754.50	1240.00	750.62	1.27	.02	1.27	146.82	50.00
* 758.50	1240.00	752.95	0.00	3.60	0.00	22.20	400.00
* 758.50	1240.00	752.94	-.01	2.32	-.01	20.95	400.00
760.00	1240.00	756.53	0.00	3.58	0.00	65.43	150.00
760.00	1240.00	756.53	.00	3.59	.00	37.40	150.00
760.50	1240.00	756.85	0.00	.31	0.00	101.99	50.00
760.50	1240.00	756.84	-.01	.30	-.01	37.90	50.00
* 761.50	1240.00	759.99	0.00	3.15	0.00	166.50	100.00
* 761.50	1240.00	759.98	-.01	3.15	-.01	43.68	100.00
762.00	1240.00	760.68	0.00	.69	0.00	177.71	50.00
762.00	1240.00	761.26	.58	1.28	.58	25.85	50.00
767.00	1240.00	762.86	0.00	2.18	0.00	48.08	500.00
767.00	1240.00	764.11	1.25	2.84	1.25	22.96	500.00
769.50	860.00	765.14	0.00	2.29	0.00	69.02	250.00
769.50	860.00	766.59	1.45	2.49	1.45	26.78	250.00

SECNO	W	WSEL	DIFWSP	DIFWSX	DIFKWS	TOPWD	XLCH
770.00	860.00	765.40	0.00	.26	0.00	79.24	50.00
770.00	860.00	766.79	1.39	.20	1.39	27.00	50.00
771.00	860.00	771.92	0.00	6.52	0.00	397.10	100.00
771.00	860.00	773.31	1.39	6.52	1.39	189.03	100.00
772.00	860.00	771.93	0.00	.01	0.00	386.94	100.00
772.00	860.00	773.32	1.39	.01	1.39	195.95	100.00
774.50	860.00	771.95	0.00	.02	0.00	386.96	250.00
774.50	860.00	773.33	1.39	.02	1.39	196.75	250.00

POSSIBLE ERROR SECNO= 740.70 PROFILE= 1 CRITICAL DEPTH ASSUMED

POSSIBLE ERROR SECNO= 741.00 PROFILE= 1 CRITICAL DEPTH ASSUMED

POSSIBLE ERROR SECNO= 741.00 PROFILE= 1 20 TRIALS REQUIRED TO BALANCE WSEL

POSSIBLE ERROR SECNO= 741.80 PROFILE= 1 ASSUMED WSEL=MIN DIFF + .1FT

POSSIBLE ERROR SECNO= 741.80 PROFILE= 1 20 TRIALS REQUIRED TO BALANCE WSEL

POSSIBLE ERROR SECNO= 758.50 PROFILE= 1 CRITICAL DEPTH ASSUMED

POSSIBLE ERROR SECNO= 758.50 PROFILE= 1 20 TRIALS REQUIRED TO BALANCE WSEL

POSSIBLE ERROR SECNO= 758.50 PROFILE= 2 CRITICAL DEPTH ASSUMED

POSSIBLE ERROR SECNO= 758.50 PROFILE= 2 20 TRIALS REQUIRED TO BALANCE WSEL

 HEC2 VERSION UPDATED JAN 1976
 ERROR CORRECTION 01,02,03,04,05,06,07,08,09
 MODIFICATIONS 52,53,54,55,56,57,58

T1 GASTONIA N C
 T2 FLOOD INSURANCE
 T3 CATAWBA CREEK 10 YR Q

J1 ICHECK INQ NJNV IDIP STRT METRIC RVINS @ WREL FO
 0. 2. 0. 0. 0.000400 0. 0. 0. 628.000 0.

J2 NPROF IPILOT PRFVS XSECV XSECH FN ALLDC TBW CHNIV ITRACE
 1.000 0. -1.000 5.000 50.000 0. 0. 0. 0. 0.

NC 0.100 0.100 0.040 0.100 0.300 0. 0. 0. 0. 0.
 QT 5.000 1325.000 2600.000 3400.000 7400.000 4200.000 0. 0. 0. 0.
 ET 0. 0. 0. 0. 0. 10.400 0. 0. 0. 0.

X1 380.000 20.000 188.000 247.000 0. 0. 0. 0. 0. 0.
 GR 650.000 0. 648.500 50.000 644.200 100.000 643.500 120.000 628.200 150.000
 GR 627.000 188.000 617.000 204.000 616.000 218.000 617.000 232.000 628.000 247.000
 GR 626.100 400.000 626.900 450.000 627.000 550.000 626.600 600.000 627.000 627.000
 GR 625.200 630.000 628.100 640.000 629.400 700.000 631.200 734.000 650.000 815.000

X1 383.300 20.000 170.000 225.000 300.000 300.000 300.000 0. 0. 0.
 GR 650.000 0. 633.200 135.000 624.400 155.000 624.000 170.000 618.000 180.000
 GR 616.700 195.000 617.500 212.000 624.700 225.000 628.200 250.000 628.500 300.000
 GR 628.000 350.000 626.900 400.000 627.000 450.000 627.800 500.000 627.900 510.000
 GR 627.800 550.000 627.400 600.000 632.000 650.000 639.800 700.000 645.000 746.000

X1 388.600 20.000 340.000 402.000 600.000 430.000 560.000 0. 0. 0.
 GR 650.000 0. 638.700 100.000 633.500 150.000 633.200 200.000 633.600 250.000
 GR 627.500 288.000 629.500 300.000 629.300 317.000 619.200 328.000 626.900 340.000
 GR 616.800 346.000 617.300 357.000 618.900 368.000 620.300 368.000 621.200 393.000
 GR 629.400 402.000 630.200 420.000 638.500 450.000 639.800 476.000 649.700 580.000

X1 399.500 14.000 179.000 232.000 1090.000 1090.000 1090.000 0. 0. 0.
 GR 650.000 0. 645.000 50.000 637.700 100.000 632.500 140.000 633.800 179.000
 GR 622.300 192.000 619.800 204.000 624.700 216.000 634.300 232.000 637.700 250.000
 GR 644.100 300.000 647.000 350.000 647.600 400.000 650.000 433.000 0. 0.

X1 408.000 15.000 200.000 450.000 950.000 850.000 920.000 0. 0. 0.
 GR 660.000 10.000 655.000 40.000 644.000 150.000 641.700 200.000 637.700 300.000
 GR 637.500 350.000 639.200 376.000 637.300 386.000 629.600 390.000 627.000 404.000
 GR 630.000 415.000 637.800 421.000 641.500 450.000 655.000 500.000 660.000 545.000

X1 421.500 10.000 516.000 570.000 1350.000 1350.000 1350.000 0. 0. 0.
 GR 660.000 80.000 655.000 120.000 650.000 200.000 645.400 250.000 643.000 300.000
 GR 641.200 350.000 643.000 400.000 640.400 450.000 641.200 500.000 640.300 516.000
 GR 632.400 526.000 631.700 544.000 632.200 560.000 641.800 570.000 641.400 600.000
 GR 641.200 634.000 650.000 643.000 655.000 665.000 660.000 705.000 0. 0.

X1 439.400 15.000 209.000 254.000 1540.000 1700.000 1790.000 0. 0. 0.
 GR 665.000 0. 662.500 50.000 657.200 100.000 650.000 150.000 645.600 175.000
 GR 645.700 200.000 646.800 209.000 635.700 218.000 634.900 234.000 636.600 248.000
 GR 644.000 254.000 646.200 264.000 644.200 300.000 653.000 350.000 665.000 380.000

X1	457,600	20,000	606,000	662,000	1700,000	1575,000	1825,000	0.	0.	0.
GR	675,000	0.	671,500	100,000	662,600	257,000	655,700	300,000	649,800	350,000
GR	649,200	365,000	650,700	400,000	651,200	450,000	651,400	500,000	651,700	550,000
GR	650,600	600,000	650,700	606,000	642,200	615,000	640,300	634,000	640,200	654,000
GR	649,300	662,000	650,900	700,000	671,900	745,000	672,700	750,000	675,000	772,000
NC	0,100	0,100	0,000	0,100	0,300	0.	0.	0.	0.	0.
QT	5,000	1075,000	2300,000	3000,000	3000,000	5420,000	0.	0.	0.	0.

X1	484,000	14,000	163,000	208,000	1850,000	2000,000	2640,000	0.	0.	0.
GR	674,000	0.	671,600	50,000	667,700	100,000	657,300	140,000	656,700	150,000
GR	657,200	163,000	648,300	174,000	647,800	185,000	648,200	203,000	657,400	208,000
GR	659,100	247,000	661,700	250,000	669,200	300,000	674,300	325,000	0.	0.
SB	1,250	2,040	2,900	0.	90,300	2,800	1192,000	0.	0.	0.

X1	486,000	12,000	133,000	168,000	200,000	200,000	200,000	0.	0.	0.
X2	0.	0.	1,000	667,300	669,400	0.	0.	0.	0.	0.
BT	6,000	0.	675,000	667,300	150,000	670,200	667,300	200,000	669,200	667,300
BT	210,000	669,100	667,300	255,000	669,400	667,300	300,000	669,400	667,300	350,000
BT	670,500	667,300	415,000	675,000	667,300	0.	0.	0.	0.	0.
GR	675,000	0.	672,000	50,000	671,000	60,000	657,800	107,000	655,800	133,000
GR	648,400	136,000	647,800	150,000	648,700	166,000	657,100	168,000	658,100	200,000
GR	670,200	250,000	675,000	305,000	0.	0.	0.	0.	0.	0.

X1	500,000	15,000	150,000	440,000	1550,000	950,000	1400,000	0.	0.	0.
GR	680,000	50,000	675,000	100,000	671,400	150,000	661,000	250,000	661,400	286,000
GR	651,800	295,000	652,400	317,000	661,400	326,000	660,600	350,000	661,800	375,000
GR	668,000	400,000	670,100	413,000	671,100	440,000	675,000	443,000	680,000	460,000

X1	521,000	25,000	477,000	513,000	2100,000	2100,000	2100,000	0.	0.	0.
GR	685,000	30,000	675,000	100,000	668,200	200,000	667,100	250,000	667,300	263,000
GR	662,900	266,000	662,900	279,000	667,900	286,000	667,000	300,000	666,300	350,000
GR	668,300	400,000	663,300	407,000	667,800	415,000	665,600	450,000	666,800	477,000
GR	660,400	485,000	659,100	494,000	658,600	506,000	667,700	513,000	666,500	650,000
GR	665,300	700,000	671,900	850,000	674,000	900,000	680,000	995,000	685,000	1060,000

X1	535,600	24,000	552,000	610,000	1360,000	1460,000	1460,000	0.	0.	0.
GR	680,000	0.	681,500	50,000	680,000	115,000	675,000	200,000	671,100	300,000
GR	670,200	350,000	670,300	400,000	671,000	450,000	670,700	500,000	671,300	552,000
GR	662,700	578,000	662,600	585,000	663,800	603,000	672,300	610,000	671,000	650,000
GR	670,600	700,000	670,200	800,000	670,000	850,000	671,800	898,000	675,000	905,000
GR	680,000	927,000	685,000	965,000	685,700	990,000	685,000	1015,000	0.	0.

X1	555,000	25,000	375,000	446,000	1940,000	1940,000	1940,000	0.	0.	0.
GR	700,000	0.	691,800	100,000	689,700	150,000	685,000	200,000	677,400	260,000
GR	676,300	300,000	676,300	350,000	674,700	375,000	669,700	383,000	664,300	426,000
GR	677,500	446,000	677,500	450,000	675,900	500,000	675,900	550,000	675,000	600,000
GR	675,700	650,000	676,600	663,000	681,000	668,000	682,400	695,000	682,400	700,000
GR	684,000	724,000	687,100	727,000	691,000	750,000	694,700	800,000	700,000	909,000

X1	568,700	10,000	57,000	164,000	1470,000	1320,000	1370,000	0.	0.	0.
GR	700,000	0.	690,800	43,000	682,200	57,000	679,100	60,000	678,300	109,000
GR	669,300	113,000	668,800	144,000	678,300	149,000	681,200	164,000	700,000	206,000
NC	0,150	0,150	0,130	0,300	0,500	0.	0.	0.	0.	0.

X1	582,000	15,000	164,000	208,000	1330,000	1330,000	1330,000	0.	0.	0.
GR	710,000	60,000	700,000	100,000	696,900	107,000	690,400	117,000	689,500	144,000
GR	687,700	150,000	682,500	164,000	679,600	168,000	680,000	194,000	681,000	195,000
GR	682,400	200,000	684,100	208,000	699,700	240,000	704,800	250,000	718,100	300,000
SB	1,250	2,040	2,600	0.	28,000	1,600	1584,000	2,320	0.	0.

X1	582,800	0.	0.	0.	80,000	80,000	80,000	1,000	0.	0.
X2	0.	0.	1,000	705,200	704,100	0.	0.	0.	0.	0.
BT	10,000	0.	725,000	0.	200,000	708,700	0.	350,000	703,900	0.
BT	397,000	704,100	0.	500,000	704,100	0.	600,000	705,000	0.	650,000
BT	707,400	0.	700,000	710,600	0.	800,000	718,600	0.	833,000	725,000

X1	584,000	15,000	316,000	350,000	120,000	120,000	120,000	0.	0.	0.
GR	705,000	85,000	700,000	100,000	691,900	150,000	687,500	200,000	687,300	250,000
GR	685,000	300,000	684,800	316,000	681,500	320,000	679,000	334,000	679,100	347,000
GR	684,000	350,000	685,900	387,000	689,500	400,000	700,000	420,000	705,000	445,000
X1	591,400	27,000	392,000	452,000	740,000	740,000	740,000	0.	0.	0.
GR	702,500	0.	700,300	50,000	698,100	100,000	697,000	150,000	696,600	175,000
GR	694,000	200,000	690,900	250,000	687,300	273,000	687,200	300,000	686,900	350,000
GR	686,500	392,000	681,200	400,000	680,800	418,000	683,900	437,000	687,800	452,000
GR	688,600	460,000	694,400	469,000	694,500	477,000	688,700	484,000	689,200	500,000
GR	691,600	551,000	697,200	571,000	699,300	600,000	700,900	620,000	705,200	650,000
GR	711,300	700,000	712,500	712,000	0.	0.	0.	0.	0.	0.
X1	595,000	29,000	598,000	645,000	360,000	360,000	360,000	0.	0.	0.
GR	705,000	45,000	700,000	100,000	695,000	150,000	692,700	200,000	692,000	250,000
GR	693,300	273,000	686,500	287,000	686,300	298,000	686,400	310,000	690,800	317,000
GR	689,000	350,000	682,700	400,000	682,500	450,000	688,200	500,000	686,500	550,000
GR	687,300	598,000	685,600	600,000	681,200	605,000	681,100	617,000	681,700	635,000
GR	689,200	645,000	688,600	650,000	687,600	700,000	687,800	750,000	687,800	800,000
GR	689,300	833,000	691,500	850,000	700,000	885,000	705,000	915,000	0.	0.
X1	598,400	23,000	406,000	449,000	340,000	340,000	340,000	0.	0.	0.
GR	705,000	0.	694,900	39,000	693,000	50,000	690,400	70,000	689,600	100,000
GR	689,200	150,000	689,100	200,000	689,000	250,000	689,200	300,000	688,500	350,000
GR	688,000	400,000	687,300	406,000	682,900	414,000	681,200	426,000	681,800	438,000
GR	690,200	449,000	689,300	500,000	690,100	527,000	697,100	550,000	698,900	600,000
GR	700,300	623,000	705,300	650,000	712,500	696,000	0.	0.	0.	0.
X1	605,400	23,000	375,000	430,000	700,000	700,000	700,000	0.	0.	0.
GR	712,500	0.	709,400	50,000	705,500	100,000	701,100	150,000	696,700	200,000
GR	692,500	232,000	692,000	250,000	690,500	260,000	691,000	300,000	691,200	350,000
GR	691,800	375,000	682,200	390,000	682,000	405,000	682,400	419,000	689,900	430,000
GR	690,500	450,000	693,900	500,000	696,200	550,000	696,500	555,000	700,600	600,000
GR	705,600	650,000	713,300	700,000	715,000	765,000	0.	0.	0.	0.
X1	615,000	25,000	657,000	700,000	960,000	960,000	960,000	0.	0.	0.
GR	707,500	0.	704,900	50,000	703,900	100,000	702,700	140,000	702,600	150,000
GR	701,200	200,000	700,100	250,000	698,900	300,000	697,400	350,000	696,200	400,000
GR	694,400	450,000	692,800	500,000	692,400	536,000	692,200	550,000	692,600	600,000
GR	692,500	650,000	692,700	657,000	685,400	670,000	685,100	680,000	685,300	690,000
GR	693,800	700,000	692,400	750,000	692,000	794,000	693,400	800,000	725,000	950,000
X1	620,000	0.	0.	0.	500,000	500,000	500,000	0.	1,200	0.
X1	626,500	29,000	631,000	665,000	650,000	650,000	650,000	0.	0.	0.
GR	710,000	0.	707,700	25,000	702,600	54,000	702,600	72,000	701,600	100,000
GR	700,300	150,000	699,100	200,000	698,200	250,000	697,500	300,000	697,500	350,000
GR	697,700	360,000	698,200	400,000	697,300	450,000	696,100	500,000	695,800	550,000
GR	695,100	600,000	695,700	631,000	687,900	640,000	687,800	648,000	688,000	656,000
GR	695,200	665,000	697,600	700,000	694,900	750,000	695,200	800,000	694,400	831,000
GR	696,100	850,000	698,000	900,000	701,700	950,000	710,000	1000,000	0.	0.
QT	5,000	940,000	1810,000	2400,000	2400,000	4300,000	0.	0.	0.	0.
X1	632,000	30,000	780,000	821,000	550,000	550,000	550,000	0.	0.	0.
GR	710,000	0.	706,100	27,000	704,700	100,000	704,200	150,000	703,500	200,000
GR	703,200	250,000	702,900	300,000	700,000	370,000	700,400	389,000	700,100	400,000
GR	700,200	450,000	700,100	500,000	698,800	550,000	697,900	600,000	698,200	658,000
GR	691,500	665,000	691,300	675,000	691,600	685,000	698,500	689,000	698,000	700,000
GR	698,200	750,000	698,100	780,000	690,100	791,000	698,700	802,000	699,800	813,000
GR	697,100	821,000	697,300	850,000	705,700	900,000	711,800	950,000	717,700	1000,000
QT	5,000	860,000	1650,000	2150,000	2150,000	3700,000	0.	0.	0.	0.
X1	633,500	0.	0.	0.	150,000	150,000	150,000	1,000	0.	0.
NC	0,080	0,080	0,060	0,100	0,300	0.	0.	0.	0.	0.

X1	641,000	17,000	340,000	400,000	750,000	750,000	750,000	0.	0.	0.
GR	715,000	90,000	710,000	120,000	705,000	175,000	704,000	200,000	700,500	250,000
GR	701,200	300,000	701,400	340,000	671,700	350,000	691,600	365,000	696,400	373,000
GR	697,600	395,000	702,100	400,000	701,600	450,000	702,500	500,000	704,000	530,000
GR	710,000	650,000	715,000	820,000	0.	0.	0.	0.	0.	0.
X1	642,000	0.	0.	0.	100,000	100,000	100,000	1,000	0.	0.
X1	642,300	0.	0.	0.	30,000	30,000	30,000	1,000	0.	0.
SB	1,250	2,040	2,500	0.	32,100	1,800	364,000	0.	0.	0.
X1	643,500	25,000	0.	0.	120,000	120,000	120,000	0.	0.	0.
X2	0.	0.	1,000	704,200	713,100	0.	0.	0.	0.	0.
BT	10,000	0.	720,600	704,200	100,000	715,000	704,200	200,000	713,200	704,200
BT	299,000	713,000	704,200	332,000	713,200	704,200	450,000	714,000	704,200	500,000
BT	714,500	704,200	550,000	715,300	704,200	600,000	716,700	704,200	700,000	720,600
BT	704,200	0.	0.	0.	0.	0.	0.	0.	0.	0.
X1	645,100	25,000	350,000	700,000	160,000	160,000	160,000	0.	0.	0.
GR	725,000	0.	714,200	100,000	711,700	150,000	704,000	300,000	702,600	350,000
GR	702,000	400,000	701,000	450,000	700,500	500,000	700,900	550,000	700,600	581,000
GR	695,000	593,000	701,600	604,000	698,300	650,000	698,300	653,000	692,500	658,000
GR	692,400	665,000	693,300	673,000	701,800	684,000	702,300	700,000	707,400	750,000
GR	714,200	800,000	714,400	812,000	714,000	825,000	719,600	850,000	725,000	925,000
NC	0,040	0,040	0,040	0,100	0,300	0.	0.	0.	0.	0.
QT	5,000	770,000	1450,000	1850,000	1850,000	2000,000	0.	0.	0.	0.
X1	664,000	24,000	539,000	590,000	1890,000	1890,000	1890,000	0.	0.	0.
GR	725,000	0.	724,000	50,000	719,900	100,000	717,700	150,000	716,600	200,000
GR	715,500	250,000	714,200	300,000	713,300	350,000	713,100	400,000	711,800	450,000
GR	707,500	480,000	707,000	500,000	706,300	539,000	697,100	556,000	696,800	560,000
GR	697,000	566,000	699,600	577,000	707,300	590,000	707,700	600,000	707,700	650,000
GR	708,600	700,000	710,600	750,000	715,400	800,000	725,000	912,000	0.	0.
SB	1,250	2,040	2,800	0.	50,500	1,000	222,000	0.	0.	0.
X1	666,000	15,000	545,000	592,000	200,000	200,000	200,000	0.	0.	0.
X2	0.	0.	1,000	706,800	708,700	0.	0.	0.	0.	0.
BT	10,000	0.	715,600	706,800	50,000	714,400	706,800	100,000	712,600	706,800
BT	200,000	711,000	706,800	300,000	709,000	706,800	325,000	708,900	706,800	377,000
BT	709,000	706,800	400,000	709,600	706,800	500,000	712,800	706,800	550,000	715,700
BT	706,800	0.	0.	0.	0.	0.	0.	0.	0.	0.
GR	725,000	0.	717,900	100,000	717,200	150,000	715,900	200,000	715,000	300,000
GR	712,500	400,000	707,200	500,000	708,300	545,000	699,400	562,000	698,700	569,000
GR	699,200	580,000	707,100	592,000	707,600	600,000	707,600	617,000	725,000	666,000
X1	679,000	25,000	337,000	366,000	1150,000	1350,000	1300,000	0.	0.	0.
GR	725,000	0.	722,100	15,000	723,000	25,000	722,900	30,000	716,100	55,000
GR	717,000	100,000	717,200	150,000	716,900	200,000	715,800	255,000	712,000	267,000
GR	711,200	300,000	709,800	337,000	702,000	345,000	701,100	355,000	701,700	363,000
GR	708,300	366,000	707,000	376,000	713,000	378,000	711,000	400,000	711,000	450,000
GR	712,500	500,000	712,200	550,000	711,700	600,000	713,800	650,000	725,000	687,000
NC	0,070	0,070	0,050	0,100	0,300	0.	0.	0.	0.	0.
QT	5,000	700,000	1280,000	1600,000	1600,000	2250,000	0.	0.	0.	0.
X1	697,000	20,000	546,000	575,000	1800,000	1800,000	1800,000	0.	0.	0.
GR	735,000	55,000	725,000	200,000	722,900	250,000	722,200	285,000	722,400	297,000
GR	717,500	400,000	717,700	450,000	717,500	500,000	718,800	546,000	708,300	557,000
GR	707,800	563,000	708,500	567,000	714,200	575,000	715,200	585,000	719,000	593,000
GR	719,400	617,000	724,700	634,000	724,900	675,000	730,000	785,000	735,000	820,000
X1	698,000	0.	0.	0.	100,000	100,000	100,000	1,000	0.	0.
X3	10,000	0.	0.	0.	0.	0.	0.	724,500	724,500	0.
X1	696,300	19,000	655,000	676,000	70,000	70,000	70,000	0.	0.	0.
BT	10,000	655,000	724,200	708,500	658,000	724,200	713,900	659,000	724,200	714,700

BT	681.000	724.200	718.700	671.000	724.100	715.800	724.100	673.000	689.000	724.100	718.100	689.000
BT	724.100	717.500	717.500	724.100	715.800	724.100	717.500	717.500	717.500	724.100	718.100	689.000
BT	708.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
GR	731.700	150.000	730.000	730.500	200.000	728.500	200.000	250.000	728.500	725.700	450.000	450.000
GR	725.500	500.000	724.900	724.900	550.000	724.200	655.000	708.200	655.000	708.400	665.000	750.000
GR	708.200	800.000	726.400	800.000	850.000	728.500	900.000	750.500	950.000	724.500	750.000	0.000
X1	699.000	18.000	547.000	583.000	70.000	70.000	70.000	70.000	70.000	0.000	0.000	0.000
GR	735.000	0.000	730.000	45.000	725.000	290.000	723.000	250.000	250.000	721.700	300.000	300.000
GR	720.100	350.000	718.800	400.000	718.200	450.000	718.500	500.000	500.000	719.500	547.000	547.000
GR	709.000	559.000	709.300	565.000	709.000	574.000	720.000	583.000	583.000	719.100	600.000	600.000
GR	719.400	650.000	724.500	700.000	735.000	765.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	701.000	0.000	0.000	0.000	110.000	110.000	110.000	110.000	1.000	0.000	0.000	0.000
X1	701.500	0.000	0.000	0.000	150.000	150.000	150.000	150.000	1.000	0.000	0.000	0.000
X1	705.500	15.000	565.000	401.000	380.000	380.000	380.000	380.000	380.000	0.000	0.000	0.000
GR	735.000	0.000	730.500	50.000	725.400	100.000	723.500	150.000	150.000	721.800	200.000	200.000
GR	720.700	250.000	720.400	300.000	722.500	350.000	722.700	363.000	363.000	711.900	384.000	384.000
GR	711.700	395.000	722.000	401.000	725.000	433.000	730.000	465.000	465.000	735.000	485.000	485.000
SB	1.000	2.040	2.500	700.000	147.000	10.000	2570.000	0.000	0.000	0.000	0.000	0.000
X1	707.500	17.000	431.000	449.000	200.000	200.000	200.000	200.000	200.000	0.000	0.000	0.000
X2	0.000	0.000	1.000	744.500	746.600	0.000	0.000	0.000	0.000	0.000	0.000	0.000
GR	736.200	0.000	734.400	50.000	730.500	100.000	729.500	150.000	150.000	727.100	200.000	200.000
GR	725.000	230.000	722.400	250.000	721.400	300.000	721.600	350.000	350.000	721.600	400.000	400.000
GR	720.500	431.000	712.700	440.000	712.900	450.000	713.800	460.000	460.000	722.000	469.000	469.000
GR	721.600	484.000	740.200	534.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NC	0.100	0.100	0.050	0.100	0.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BT	5.000	600.000	1260.000	1600.000	1600.000	2300.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	720.900	15.000	429.000	474.000	1360.000	1360.000	1360.000	1360.000	0.000	0.000	0.000	0.000
GR	737.500	0.000	739.900	50.000	732.800	100.000	732.800	150.000	150.000	732.100	200.000	200.000
GR	728.700	250.000	728.100	300.000	727.700	350.000	728.200	400.000	400.000	728.000	429.000	429.000
GR	718.800	471.000	718.500	446.000	718.700	452.000	737.500	474.000	474.000	738.100	486.000	486.000
SB	1.250	1.500	2.500	0.000	18.000	3.000	105.000	0.000	0.000	721.000	719.000	719.000
X1	727.500	13.000	491.000	509.000	660.000	660.000	660.000	660.000	0.000	0.000	0.000	0.000
X2	0.000	0.000	1.000	728.000	737.000	0.000	0.000	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	0.000	0.000	0.000	0.000	0.000
BT	9.000	0.000	750.000	125.000	745.000	745.000	0.000	175.000	175.000	740.000	0.000	0.000
BT	200.000	737.000	0.000	491.000	737.000	728.000	509.000	717.000	717.000	728.000	830.000	830.000
BT	740.000	0.000	970.000	945.000	0.000	1045.000	750.000	0.000	0.000	0.000	0.000	0.000
GR	750.000	0.000	745.000	125.000	740.000	175.000	737.000	200.000	200.000	735.000	250.000	250.000
GR	728.000	490.000	721.000	491.000	721.000	505.000	728.000	510.000	510.000	735.000	730.000	730.000
GR	740.000	800.000	735.000	815.000	740.000	937.000	750.000	1000.000	1000.000	731.500	740.000	740.000
GR	722.200	710.000	731.400	716.000	732.000	733.000	723.000	735.000	735.000	731.500	695.000	695.000
GR	740.000	40.000	731.000	600.000	731.500	657.000	722.400	680.000	680.000	721.900	0.400	0.400
GR	750.000	0.000	750.000	0.100	750.000	0.200	750.000	0.300	0.300	750.000	0.400	0.400
X1	729.000	19.000	657.000	716.000	150.000	150.000	150.000	150.000	0.000	0.000	0.000	0.000
GR	740.000	710.000	731.400	716.000	732.000	733.000	723.000	735.000	735.000	731.500	695.000	695.000
GR	750.000	70.000	745.000	230.000	740.000	300.000	740.000	350.000	350.000	740.000	400.000	400.000
GR	735.000	430.000	727.900	446.000	732.800	452.000	737.500	474.000	474.000	738.100	486.000	486.000
GR	727.500	13.000	491.000	509.000	660.000	660.000	660.000	660.000	0.000	0.000	0.000	0.000
X1	727.500	13.000	491.000	509.000	660.000	660.000	660.000	660.000	0.000	0.000	0.000	0.000
X2	0.000	0.000	1.000	728.000	737.000	0.000	0.000	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	0.000	0.000	0.000	0.000	0.000
BT	9.000	0.000	750.000	125.000	745.000	745.000	0.000	175.000	175.000	740.000	0.000	0.000
BT	200.000	737.000	0.000	491.000	737.000	728.000	509.000	717.000	717.000	728.000	830.000	830.000
BT	740.000	0.000	970.000	945.000	0.000	1045.000	750.000	0.000	0.000	0.000	0.000	0.000
GR	750.000	0.000	745.000	125.000	740.000	175.000	737.000	200.000	200.000	735.000	250.000	250.000
GR	728.000	490.000	721.000	491.000	721.000	505.000	728.000	510.000	510.000	735.000	730.000	730.000
GR	740.000	800.000	735.000	815.000	740.000	937.000	750.000	1000.000	1000.000	731.500	740.000	740.000
GR	722.200	710.000	731.400	716.000	732.000	733.000	723.000	735.000	735.000	731.500	695.000	695.000
GR	740.000	40.000	731.000	600.000	731.500	657.000	722.400	680.000	680.000	721.900	0.400	0.400
GR	750.000	0.000	750.000	0.100	750.000	0.200	750.000	0.300	0.300	750.000	0.400	0.400
X1	729.000	19.000	657.000	716.000	150.000	150.000	150.000	150.000	0.000	0.000	0.000	0.000
GR	740.000	710.000	731.400	716.000	732.000	733.000	723.000	735.000	735.000	731.500	695.000	695.000
GR	750.000	70.000	745.000	230.000	740.000	300.000	740.000	350.000	350.000	740.000	400.000	400.000
GR	735.000	430.000	727.900	446.000	732.800	452.000	737.500	474.000	474.000	738.100	486.000	486.000
GR	727.500	13.000	491.000	509.000	660.000	660.000	660.000	660.000	0.000	0.000	0.000	0.000
X1	727.500	13.000	491.000	509.000	660.000	660.000	660.000	660.000	0.000	0.000	0.000	0.000
X2	0.000	0.000	1.000	728.000	737.000	0.000	0.000	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	0.000	0.000	0.000	0.000	0.000
BT	9.000	0.000	750.000	125.000	745.000	745.000	0.000	175.000	175.000	740.000	0.000	0.000
BT	200.000	737.000	0.000	491.000	737.000	728.000	509.000	717.000	717.000	728.000	830.000	830.000
BT	740.000	0.000	970.000	945.000	0.000	1045.000	750.000	0.000	0.000	0.000	0.000	0.000
GR	750.000	0.000	745.000	125.000	740.000	175.000	737.000	200.000	200.000	735.000	250.000	250.000
GR	728.000	490.000	721.000	491.000	721.000	505.000	728.000	510.000	510.000	735.000	730.000	730.000
GR	740.000	800.000	735.000	815.000	740.000	937.000	750.000	1000.000	1000.000	731.500	740.000	740.000
GR	722.200	710.000	731.400	716.000	732.000	733.000	723.000	735.000	735.000	731.500	695.000	695.000
GR	740.000	40.000	731.000	600.000	731.500	657.000	722.400	680.000	680.000	721.900	0.400	0.400
GR	750.000	0.000	750.000	0.100	750.000	0.200	750.000	0.300	0.300	750.000	0.400	0.400
X1	729.000	19.000	657.000	716.000	150.000	150.000	150.000	150.000	0.000	0.000	0.000	0.000
GR	740.000	710.000	731.400	716.000	732.000	733.000	723.000	735.000	735.000	731.500	695.000	695.000
GR	750.000	70.000	745.000	230.000	740.000	300.000	740.000	350.000	350.000	740.000	400.000	400.000
GR	735.000	430.000	727.900	446.000	732.800	452.000	737.500	474.000	474.000	738.100	486.000	486.000
GR	727.500	13.000	491.000	509.000	660.000	660.000	660.000	660.000	0.000	0.000	0.000	0.000
X1	727.500	13.000	491.000	509.000	660.000	660.000	660.000	660.000	0.000	0.000	0.000	0.000
X2	0.000	0.000	1.000	72								

 HEC2 VERSION UPDATED JAN 1976
 ERROR CORRECTION 01,02,03,04,05,06,07,08,09
 MODIFICATIONS 52,53,54,55,56,57,58

T1 GASTONIA N C
 T2 FLOOD INSURANCE
 T3 CATAWBA CREEK 50 YR Q

J1	ICHECK	IND	NINV	IDIR	STRT	METRIC	HVINS	0	WBEL	FD
	0.	3.	0.	0.	0.000400	0.	0.	0.	630,500	0.

J2	NPROP	IPLT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	2,000	0.	-1,000	0.	0.	0.	0.	0.	0.	0.



 HEC2 VERSION UPDATED JAN 1976 //
 ERROR CORRECTION 01,02,03,04,05,06,07,08,09
 MODIFICATIONS 52,53,54,55,56,57,58

T1 GASTONIA N C
 T2 FLOOD INSURANCE
 T3 CATAWBA CREEK 100 YR Q

J1	ICHECK	ING	NINV	IDIR	STRT	METRIC	HVINS	Q	WBEL	FG
	0.	4.	0.	0.	0.000400	0.	0.	0.	631.800	0.

J2	NPROP	IPL0T	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIR	ITRACE
	3.000	0.	-1.000	0.	0.	0.	0.	0.	0.	0.

 HEC2 VERSION UPDATED JAN 1976
 ERROR CORRECTION 01,02,03,04,05,06,07,08,09
 MODIFICATIONS 52,53,54,55,56,57,58

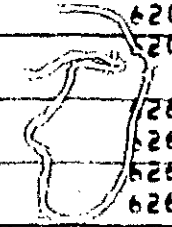
11 GASTONIA N C
 12 FLOOD INSURANCE
 13 CATAWBA CREEK 500 YR 0

J1	ICHECK	ING	NINV	IDIP	SYRT	METRIC	HVINS	Q	WSEL	FG
	0.	6.	0.	0.	0.000400	0.	0.	0.	632,500	0.

J2	NPROF	IPLDT	PRFVS	XSECV	XSECH	FN	ALLDC	YBW	CHNIV	ITRACE
	15.000	0.	-1.000	0.	0.	0.	0.	0.	0.	0.

SECTION NUMBER	CHANNEL LENGTH	MIN EL OF ROADWAY	MAX EL OF LOW CHORD	MIN EL OF GROUND	DISCHARGE (CFS)	CWSEL	CRTWS	FG	TOPWID	10K*S	TIME	VOL
500.00	1400.00	0.	0.	651.80	1075.00	658.69	0.	659.70	34.75	30.93	0.64	73.03
500.00	1400.00	0.	0.	651.80	2300.00	662.79	0.	663.12	146.26	31.61	0.54	133.07
500.00	1400.00	0.	0.	651.80	3000.00	663.76	0.	664.09	159.47	25.40	0.53	182.93
500.00	1400.00	0.	0.	651.80	5420.00	666.44	0.	666.80	195.89	17.39	0.47	328.40
521.00	2100.00	0.	0.	658.60	1075.00	665.59	0.	666.10	77.67	34.93	0.75	82.91
521.00	2100.00	0.	0.	658.60	2300.00	668.22	0.	668.56	564.07	21.55	0.68	170.35
521.00	2100.00	0.	0.	658.60	3000.00	668.75	0.	669.10	586.59	22.38	0.67	231.27
521.00	2100.00	0.	0.	658.60	5420.00	670.42	0.	670.72	648.96	20.09	0.63	412.99
535.60	1460.00	0.	0.	662.60	1075.00	669.48	0.	669.78	50.16	18.95	0.84	90.67
535.60	1460.00	0.	0.	662.60	2300.00	671.43	0.	671.88	569.64	24.07	0.76	200.11
535.60	1460.00	0.	0.	662.60	3000.00	672.03	0.	672.47	613.55	23.94	0.75	271.75
535.60	1460.00	0.	0.	662.60	5420.00	673.45	0.	673.90	661.98	23.81	0.72	485.02
555.00	1940.00	0.	0.	664.30	1075.00	672.52	0.	672.73	59.99	12.38	0.98	102.67
555.00	1940.00	0.	0.	664.30	2300.00	675.15	0.	675.53	93.10	15.07	0.87	227.71
555.00	1940.00	0.	0.	664.30	3000.00	675.96	0.	676.46	243.76	17.76	0.85	309.88
555.00	1940.00	0.	0.	664.30	5420.00	677.79	0.	678.54	407.42	23.14	0.80	557.75
568.70	1370.00	0.	0.	668.80	1075.00	674.84	0.	675.31	36.65	29.62	1.05	110.40
568.70	1370.00	0.	0.	668.80	2300.00	677.85	0.	678.70	39.56	35.32	0.92	239.92
568.70	1370.00	0.	0.	668.80	3000.00	679.70	0.	680.43	96.83	52.74	0.90	326.03
568.70	1370.00	0.	0.	668.80	5420.00	681.98	0.	682.99	108.54	46.82	0.84	587.62
582.00	1330.00	0.	0.	679.60	1075.00	684.79	683.31	685.34	51.59	452.13	1.12	116.20
582.00	1330.00	0.	0.	679.60	2300.00	688.06	685.18	688.71	87.32	252.72	0.98	250.44
582.00	1330.00	0.	0.	679.60	3000.00	690.64	0.	691.13	104.70	135.40	0.97	341.69
582.00	1330.00	0.	0.	679.60	5420.00	693.07	0.	693.87	112.55	175.17	0.90	610.91
582.80	80.00	704.10	705.20	679.60	1075.00	684.89	0.	685.41	52.03	417.66	1.12	116.55
582.80	80.00	704.10	705.20	679.60	2300.00	688.14	0.	688.77	67.76	242.44	0.98	251.14
582.80	80.00	704.10	705.20	679.60	3000.00	690.68	0.	691.17	104.83	133.16	0.97	342.77
582.80	80.00	704.10	705.20	679.60	5420.00	693.14	0.	693.93	112.76	171.13	0.90	612.48
584.00	120.00	0.	0.	679.00	1075.00	687.24	0.	687.40	100.62	81.11	1.13	117.38
584.00	120.00	0.	0.	679.00	2300.00	689.98	0.	690.10	229.10	52.65	1.00	253.02
584.00	120.00	0.	0.	679.00	3000.00	691.89	0.	691.98	254.40	31.80	0.99	345.57
584.00	120.00	0.	0.	679.00	5420.00	694.75	0.	694.86	277.56	30.84	0.91	616.70
591.40	740.00	0.	0.	680.80	1075.00	689.94	0.	689.98	239.19	18.91	1.27	127.98
591.40	740.00	0.	0.	680.80	2300.00	692.30	0.	692.35	312.24	19.53	1.12	273.98
591.40	740.00	0.	0.	680.80	3000.00	693.61	0.	693.66	341.67	16.95	1.11	374.08
591.40	740.00	0.	0.	680.80	5420.00	696.45	0.	696.51	391.87	16.69	1.02	660.59
595.00	360.00	0.	0.	681.10	1075.00	690.22	0.	690.23	549.30	3.41	1.45	139.87
595.00	360.00	0.	0.	681.10	2300.00	692.61	0.	692.62	634.25	3.64	1.26	294.27
595.00	360.00	0.	0.	681.10	3000.00	693.90	0.	693.90	685.83	3.32	1.25	399.68
595.00	360.00	0.	0.	681.10	5420.00	696.75	0.	696.77	739.15	3.51	1.13	698.99

SECTION NUMBER	CHANNEL LENGTH	MIN EL OF ROADWAY	MAX EL OF LOW CHORD	MIN EL OF GROUND	DISCHARGE (CFS)	CWSEL	CRWS	EG	TOPWID	10K+S	TIME	VOL
598.40	340.00	0.	0.	681.20	1075.00	690.46	0.	690.52	458.70	33.41	1.50	151.12
598.40	340.00	0.	0.	681.20	2300.00	692.83	0.	692.87	484.71	17.17	1.33	315.24
598.40	340.00	0.	0.	681.20	3000.00	694.09	0.	694.11	496.39	12.97	1.32	426.40
598.40	340.00	0.	0.	681.20	5420.00	696.94	0.	696.97	518.32	10.72	1.20	739.34
605.40	700.00	0.	0.	682.00	1075.00	692.39	0.	692.45	241.64	23.08	1.61	163.27
605.40	700.00	0.	0.	682.00	2300.00	694.37	0.	694.46	282.48	30.43	1.42	340.64
605.40	700.00	0.	0.	682.00	3000.00	695.37	0.	695.46	321.82	29.78	1.41	459.19
605.40	700.00	0.	0.	682.00	5420.00	698.04	0.	698.14	387.16	27.70	1.28	791.42
615.00	960.00	0.	0.	685.10	1075.00	694.67	0.	694.71	363.59	23.91	1.79	180.84
615.00	960.00	0.	0.	685.10	2300.00	696.77	0.	696.81	439.67	19.79	1.60	373.27
615.00	960.00	0.	0.	685.10	3000.00	697.68	0.	697.72	479.57	18.76	1.59	499.82
615.00	960.00	0.	0.	685.10	5420.00	700.15	0.	700.19	584.24	16.74	1.44	856.96
620.00	500.00	0.	0.	686.30	1075.00	695.87	0.	695.91	363.35	24.08	1.89	191.31
620.00	500.00	0.	0.	686.30	2300.00	697.81	0.	697.85	432.32	22.09	1.69	392.95
620.00	500.00	0.	0.	686.30	3000.00	698.67	0.	698.72	471.79	21.27	1.67	524.14
620.00	500.00	0.	0.	686.30	5420.00	701.04	0.	701.09	569.91	19.29	1.52	895.84
626.50	650.00	0.	0.	687.80	1075.00	697.42	0.	697.45	441.72	23.17	2.03	205.60
626.50	650.00	0.	0.	687.80	2300.00	699.16	0.	699.18	716.24	18.98	1.84	421.15
626.50	650.00	0.	0.	687.80	3000.00	699.93	0.	699.96	740.76	17.12	1.82	559.52
626.50	650.00	0.	0.	687.80	5420.00	702.11	0.	702.14	863.34	13.42	1.66	953.61
632.00	550.00	0.	0.	689.80	940.00	699.03	0.	699.07	319.21	40.27	2.13	215.96
632.00	550.00	0.	0.	689.80	1800.00	700.51	0.	700.55	511.53	37.00	1.94	442.00
632.00	550.00	0.	0.	689.80	2400.00	701.20	0.	701.24	532.03	36.32	1.92	586.21
632.00	550.00	0.	0.	689.80	4300.00	703.11	0.	703.15	618.78	29.18	1.76	998.29
633.50	150.00	0.	0.	689.80	860.00	699.49	0.	699.51	319.87	21.37	2.16	218.41
633.50	150.00	0.	0.	689.80	1650.00	700.95	0.	700.98	524.46	21.25	1.97	466.53
633.50	150.00	0.	0.	689.80	2150.00	701.62	0.	701.65	544.96	20.58	1.95	591.97
633.50	150.00	0.	0.	689.80	3700.00	703.47	0.	703.49	680.87	17.28	1.79	1007.78
641.00	750.00	0.	0.	691.60	860.00	700.72	0.	700.83	76.14	14.28	2.24	227.94
641.00	750.00	0.	0.	691.60	1650.00	702.35	0.	702.53	267.37	19.10	2.03	463.29
641.00	750.00	0.	0.	691.60	2150.00	703.02	0.	703.22	295.98	19.86	2.01	614.11
641.00	750.00	0.	0.	691.60	3700.00	704.69	0.	704.90	360.77	18.73	1.85	1043.37
642.00	100.00	0.	0.	691.60	860.00	700.86	0.	700.97	89.10	13.16	2.25	228.68
642.00	100.00	0.	0.	691.60	1650.00	702.55	0.	702.71	279.99	16.46	2.04	465.32
642.00	100.00	0.	0.	691.60	2150.00	703.23	0.	703.41	303.23	17.05	2.02	615.97
642.00	100.00	0.	0.	691.60	3700.00	704.89	0.	705.07	369.93	16.49	1.86	1047.00
642.30	30.00	0.	0.	691.60	860.00	700.90	0.	701.01	92.72	12.86	2.25	228.91
642.30	30.00	0.	0.	691.60	1650.00	702.60	0.	702.76	281.82	15.84	2.04	465.77
642.30	30.00	0.	0.	691.60	2150.00	703.29	0.	703.46	305.32	16.32	2.02	616.56
642.30	30.00	0.	0.	691.60	3700.00	704.94	0.	705.12	372.31	15.96	1.85	1047.98



SECTION NUMBER	CHANNEL LENGTH	MIN EL OF ROADWAY	MAX EL OF LOW CHORD	MIN EL OF GROUND	DISCHARGE (CFS)	WCSEL	CRWS	EG	TOPWID	10KWS	TIME	VOL
645.10	160.00	0.	0.	692.40	850.00	701.27	0.	701.33	241.56	39.23	2.28	230.29
645.10	160.00	0.	0.	692.40	1650.00	702.97	0.	703.01	349.58	14.29	2.07	468.70
645.10	160.00	0.	0.	692.40	2150.00	703.63	0.	703.69	399.97	11.40	2.04	620.34
645.10	160.00	0.	0.	692.40	3700.00	705.25	0.	705.32	453.36	9.54	1.88	1054.06
664.00	1890.00	0.	0.	696.80	770.00	704.70	0.	704.88	43.62	10.90	2.43	244.16
664.00	1890.00	0.	0.	696.80	1450.00	705.91	0.	706.33	47.93	20.98	2.17	495.07
664.00	1890.00	0.	0.	696.80	1850.00	706.36	0.	706.94	52.58	27.72	2.13	652.75
664.00	1890.00	0.	0.	696.80	3000.00	707.41	0.	708.46	109.19	42.55	1.95	1103.41
666.00	200.00	708.70	706.80	698.70	770.00	704.71	0.	705.10	46.50	30.28	2.44	245.02
666.00	200.00	708.70	706.80	698.70	1450.00	705.93	0.	706.75	40.70	51.03	2.18	496.17
666.00	200.00	708.70	706.80	698.70	1850.00	707.95	0.	708.56	117.47	28.34	2.14	654.17
666.00	200.00	708.70	706.80	698.70	3000.00	710.21	0.	710.64	181.33	16.41	1.96	1105.84
679.00	1300.00	0.	0.	701.10	770.00	708.10	0.	708.46	37.63	22.24	2.51	249.78
679.00	1300.00	0.	0.	701.10	1450.00	710.45	0.	710.96	57.12	22.02	2.24	503.08
679.00	1300.00	0.	0.	701.10	1850.00	711.28	0.	711.86	143.45	22.88	2.20	663.88
679.00	1300.00	0.	0.	701.10	3000.00	712.60	0.	713.18	351.92	23.10	2.02	1125.15
697.00	1800.00	0.	0.	707.80	700.00	714.51	0.	715.14	27.65	77.62	2.59	255.48
697.00	1800.00	0.	0.	707.80	1280.00	716.58	0.	717.43	39.59	73.02	2.31	512.30
697.00	1800.00	0.	0.	707.80	1600.00	717.49	0.	718.42	42.48	71.32	2.26	675.38
697.00	1800.00	0.	0.	707.80	2250.00	718.57	716.73	719.51	206.43	70.19	2.09	1146.77
698.00	100.00	0.	0.	707.80	700.00	715.30	0.	715.76	25.34	47.17	2.60	255.75
698.00	100.00	0.	0.	707.80	1280.00	717.32	0.	718.08	27.45	56.68	2.31	512.72
698.00	100.00	0.	0.	707.80	1600.00	718.15	0.	719.09	28.32	62.39	2.27	675.87
698.00	100.00	0.	0.	707.80	2250.00	718.97	0.	720.47	29.00	89.45	2.09	1147.49
698.30	70.00	724.10	718.10	708.20	700.00	715.65	0.	716.42	21.00	170.92	2.60	255.94
698.30	70.00	724.10	718.10	708.20	1280.00	717.32	0.	719.28	21.00	407.04	2.32	512.95
698.30	70.00	724.10	718.10	708.20	1600.00	717.80	714.98	720.66	21.00	583.69	2.27	676.13
698.30	70.00	724.10	718.10	708.20	2250.00	717.37	716.86	723.38	21.00	1246.44	2.09	1147.77
699.00	70.00	0.	0.	709.00	700.00	716.57	0.	716.84	30.02	25.51	2.61	256.15
699.00	70.00	0.	0.	709.00	1280.00	719.56	0.	719.81	272.40	18.66	2.32	513.00
699.00	70.00	0.	0.	709.00	1600.00	721.02	0.	721.12	344.47	8.09	2.28	676.95
699.00	70.00	0.	0.	709.00	2250.00	724.01	0.	724.03	470.28	2.12	2.11	1149.57
701.00	110.00	0.	0.	709.00	700.00	716.86	0.	717.10	30.60	22.14	2.61	256.59
701.00	110.00	0.	0.	709.00	1280.00	719.80	0.	720.00	288.39	15.42	2.33	514.60
701.00	110.00	0.	0.	709.00	1600.00	721.11	0.	721.21	348.57	7.83	2.29	679.25
701.00	110.00	0.	0.	709.00	2250.00	724.03	0.	724.06	471.43	2.08	2.13	1154.94
701.50	150.00	0.	0.	709.00	700.00	717.20	0.	717.41	31.26	18.97	2.62	257.22
701.50	150.00	0.	0.	709.00	1280.00	720.05	0.	720.21	304.68	12.44	2.34	516.47
701.50	150.00	0.	0.	709.00	1600.00	721.24	0.	721.33	353.59	7.09	2.31	682.52
701.50	150.00	0.	0.	709.00	2250.00	724.06	0.	724.09	472.53	2.04	2.17	1162.32

SECTION NUMBER	CHANNEL LENGTH	MIN FL OF ROADWAY	MAX EL OF LOW CHORD	MIN EL OF GROUND	DISCHARGE (CFS)	CWSEL	CRTWS	FG	TOPWID	10K+5	TIME	VOL
705.30	380.00	0.	0.	711.70	700.00	718.20	0.	718.72	27.04	60.60	2.64	258.56
705.30	380.00	0.	0.	711.70	1280.00	720.58	0.	721.27	66.58	61.59	2.36	519.87
705.30	380.00	0.	0.	711.70	1600.00	721.41	0.	722.10	104.35	59.59	2.33	688.03
705.30	380.00	0.	0.	711.70	2250.00	724.12	0.	724.30	290.05	14.59	2.20	1175.66
707.30	200.00	746.60	744.50	712.70	700.00	718.28	0.	718.71	31.53	52.71	2.65	259.15
707.30	200.00	746.60	744.50	712.70	1280.00	720.69	0.	721.27	45.93	40.66	2.37	520.82
707.30	200.00	746.60	744.50	712.70	1600.00	721.52	0.	722.15	101.97	45.67	2.34	689.31
707.30	200.00	746.60	744.50	712.70	2250.00	724.14	0.	724.34	254.17	13.45	2.22	1179.74
720.90	1380.00	0.	0.	718.30	600.00	725.04	0.	725.42	26.63	45.73	2.73	263.12
720.90	1380.00	0.	0.	718.30	1280.00	727.91	0.	728.18	32.79	57.73	2.43	527.26
720.90	1380.00	0.	0.	718.30	1600.00	728.39	725.34	729.13	187.72	57.61	2.39	697.88
720.90	1380.00	0.	0.	718.30	2300.00	727.34	0.	729.65	32.36	201.51	2.25	1196.26
727.50	660.00	737.00	728.00	721.00	600.00	725.26	0.	726.21	18.00	104.43	2.75	264.62
727.50	660.00	737.00	728.00	721.00	1280.00	730.00	0.	730.07	18.00	43.75	2.45	529.96
727.50	660.00	737.00	728.00	721.00	1600.00	732.94	0.	733.80	18.00	29.24	2.42	701.65
727.50	660.00	737.00	728.00	721.00	2300.00	737.28	0.	737.31	577.84	1.54	2.41	1221.13
729.00	150.00	0.	0.	721.90	600.00	726.77	0.	726.06	47.32	24.78	2.76	265.05
729.00	150.00	0.	0.	721.90	1280.00	731.18	0.	731.33	109.81	10.15	2.46	530.98
729.00	150.00	0.	0.	721.90	1600.00	733.93	0.	734.00	389.56	3.64	2.44	704.05
729.00	150.00	0.	0.	721.90	2300.00	737.30	0.	737.33	643.12	1.38	2.45	1231.50
740.00	1100.00	0.	0.	727.90	600.00	733.65	733.65	735.13	21.38	312.64	2.80	268.07
740.00	1100.00	0.	0.	727.90	1280.00	735.96	735.96	737.10	140.18	146.73	2.50	539.25
740.00	1100.00	0.	0.	727.90	1600.00	736.39	736.39	737.57	153.38	145.33	2.47	722.56
740.00	1100.00	0.	0.	727.90	2300.00	737.07	737.07	738.38	172.74	153.38	2.48	1273.54

SECTION NUMBER	DISCHARGE CFS	CWSEL	CWSEL DIFF EACH Q	CWSEL DIFF EACH SECTION	CWSEL-WSELK	TOPWID	Y.P. DIFF	LENGTH
380.000	1325.000	627.352	0.	0.	0.	407.509	0.	0.
380.000	2600.000	629.627	2.275	0.	0.	557.088	-149.579	0.
380.000	3400.000	630.587	0.960	0.	0.	577.107	-169.598	0.
380.000	6200.000	633.155	2.567	0.	0.	602.136	-194.627	0.
383.000	1325.000	627.467	0.	0.115	0.	212.176	0.	300.000
383.000	2600.000	629.723	2.256	0.096	0.	482.352	-270.175	300.000
383.000	3400.000	630.680	0.957	0.093	0.	494.925	-282.749	300.000
383.000	6200.000	633.242	2.562	0.087	0.	523.205	-311.119	300.000
388.600	1325.000	627.690	0.	0.213	0.	83.474	0.	560.000
388.600	2600.000	629.953	2.273	0.230	0.	141.458	-58.024	560.000
388.600	3400.000	630.892	0.939	0.212	0.	155.692	-72.258	560.000
388.600	6200.000	633.348	2.456	0.106	0.	222.955	-139.521	560.000
399.500	1325.000	628.482	0.	0.802	0.	37.301	0.	1090.000
399.500	2600.000	631.080	2.578	1.107	0.	44.519	-7.217	1090.000
399.500	3400.000	632.150	1.089	1.257	0.	47.570	-10.269	1090.000
399.500	6200.000	634.997	2.847	1.649	0.	114.889	-77.587	1090.000
408.000	1325.000	633.634	0.	5.152	0.	29.889	0.	920.000
408.000	2600.000	636.533	2.899	5.473	0.	33.627	-3.739	920.000
408.000	3400.000	639.342	2.809	7.193	0.	174.107	-144.259	920.000
408.000	6200.000	641.737	2.394	6.740	0.	251.428	-221.539	920.000
421.500	1325.000	639.115	0.	5.482	0.	49.705	0.	1350.000
421.500	2600.000	642.194	3.078	5.660	0.	274.722	-225.017	1350.000
421.500	3400.000	643.393	1.200	4.051	0.	344.639	-294.934	1350.000

421,500	6200,000	645,286	1,903	3,559	0.	386,030	-336,325	1350,000
439,400	1325,000	642,443	0.	3,328	0.	40,206	0.	1790,000
439,400	2600,000	645,408	2,965	3,215	0.	78,894	-38,688	1790,000
439,400	3400,000	646,447	1,039	3,054	0.	139,282	-99,076	1790,000
439,400	6200,000	649,009	2,562	3,713	0.	171,737	-131,531	1790,000
457,600	1325,000	646,767	0.	4,324	0.	49,609	0.	1825,000
457,600	2600,000	649,883	3,116	4,475	0.	100,497	-50,888	1825,000
457,600	3400,000	651,238	1,354	4,791	0.	251,546	-201,938	1825,000
457,600	6200,000	654,152	2,914	5,143	0.	393,838	-344,230	1825,000
484,000	1075,000	653,627	0.	6,860	0.	38,532	0.	2640,000
484,000	2300,000	656,598	2,971	6,714	0.	43,805	-5,273	2640,000
484,000	3000,000	657,782	1,184	6,544	0.	78,777	-40,245	2640,000
484,000	5420,000	659,842	2,061	5,691	0.	117,636	-79,103	2640,000
486,000	1075,000	653,686	0.	0,060	0.	33,330	0.	200,000
486,000	2300,000	656,705	3,019	0,107	0.	46,671	-13,340	200,000
486,000	3000,000	657,918	1,213	0,137	0.	87,602	-54,272	200,000
486,000	5420,000	660,172	2,253	0,329	0.	110,004	-76,674	200,000
500,000	1075,000	658,692	0.	5,006	0.	34,755	0.	1400,000
500,000	2300,000	662,794	4,102	6,089	0.	146,260	-111,505	1400,000
500,000	3000,000	663,752	0,968	5,844	0.	159,466	-124,711	1400,000
500,000	5420,000	666,438	2,676	6,266	0.	195,894	-161,139	1400,000
521,000	1075,000	665,592	0.	6,900	0.	77,666	0.	2100,000
521,000	2300,000	668,215	2,623	5,421	0.	564,071	-486,406	2100,000
521,000	3000,000	668,753	0,538	4,991	0.	586,594	-508,928	2100,000
521,000	5420,000	670,418	1,665	3,980	0.	648,956	-571,290	2100,000
535,600	1075,000	669,480	0.	3,887	0.	50,164	0.	1460,000
535,600	2300,000	671,434	1,954	3,219	0.	569,639	-519,475	1460,000
535,600	3000,000	672,025	0,592	3,272	0.	613,554	-563,390	1460,000
535,600	5420,000	673,454	1,429	3,036	0.	661,977	-611,813	1460,000
555,000	1075,000	672,525	0.	3,045	0.	59,993	0.	1940,000
555,000	2300,000	675,151	2,627	3,718	0.	93,008	-33,105	1940,000
555,000	3000,000	675,958	0,807	3,933	0.	243,762	-183,768	1940,000
555,000	5420,000	677,790	1,832	4,336	0.	407,419	-347,425	1940,000
568,700	1075,000	674,804	0.	2,320	0.	36,645	0.	1370,000
568,700	2300,000	677,645	3,001	2,694	0.	39,565	-2,920	1370,000
568,700	3000,000	679,700	1,855	3,742	0.	96,830	-60,184	1370,000
568,700	5420,000	681,984	2,284	4,194	0.	108,538	-71,893	1370,000
582,000	1075,000	684,792	0.	9,947	0.	51,588	0.	1330,000
582,000	2300,000	688,063	3,272	10,218	0.	67,315	-15,727	1330,000
582,000	3000,000	690,640	2,576	10,940	0.	104,697	-53,109	1330,000
582,000	5420,000	693,072	2,432	11,088	0.	112,547	-60,959	1330,000
582,800	1075,000	684,885	0.	0,094	0.	52,033	0.	80,000
582,800	2300,000	688,140	3,255	0,077	0.	67,756	-15,723	80,000
582,800	3000,000	690,640	2,540	0,040	0.	104,827	-52,794	80,000
582,800	5420,000	693,139	2,459	0,067	0.	112,765	-60,731	80,000
584,000	1075,000	687,203	0.	2,357	0.	140,620	0.	120,000
584,000	2300,000	689,979	2,736	1,839	0.	229,096	-88,476	120,000
584,000	3000,000	691,889	1,910	1,209	0.	254,399	-113,779	120,000
584,000	5420,000	694,708	2,859	1,609	0.	277,563	-136,943	120,000
591,400	1075,000	689,980	0.	2,697	0.	239,192	0.	740,000
591,400	2300,000	692,304	2,364	2,324	0.	312,239	-73,047	740,000
591,400	3000,000	693,613	1,310	1,724	0.	341,666	-102,474	740,000
591,400	5420,000	696,449	2,836	1,701	0.	391,872	-152,680	740,000

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595.000	1075.000	690.223	0.	0.283	0.	549.304	0.	360.000
595.000	2300.000	692.614	2.391	0.310	0.	634.247	-84.943	360.000
595.000	3000.000	693.896	1.283	0.283	0.	685.827	-136.523	360.000
595.000	5420.000	696.753	2.857	0.304	0.	739.108	-189.844	360.000
596.400	1075.000	690.465	0.	0.242	0.	458.689	0.	340.000
596.400	2300.000	692.834	2.370	0.221	0.	484.711	-26.013	340.000
596.400	3000.000	694.086	1.252	0.190	0.	496.385	-37.687	340.000
596.400	5420.000	696.936	2.850	0.183	0.	518.323	-59.625	340.000
605.400	1075.000	692.389	0.	1.924	0.	241.602	0.	700.000
605.400	2300.000	694.374	1.985	1.500	0.	292.476	-50.834	700.000
605.400	3000.000	695.372	0.998	1.286	0.	321.821	-80.179	700.000
605.400	5420.000	698.042	2.670	1.106	0.	387.164	-145.572	700.000
615.000	1075.000	694.673	0.	2.283	0.	363.586	0.	960.000
615.000	2300.000	696.768	2.096	2.394	0.	439.666	-76.080	960.000
615.000	3000.000	697.679	0.910	2.307	0.	479.566	-115.980	960.000
615.000	5420.000	700.150	2.471	2.107	0.	584.202	-220.656	960.000
620.000	1075.000	695.872	0.	1.200	0.	363.345	0.	500.000
620.000	2300.000	697.811	1.939	1.043	0.	432.316	-68.971	500.000
620.000	3000.000	698.674	0.863	0.996	0.	471.794	-108.449	500.000
620.000	5420.000	701.044	2.370	0.895	0.	569.974	-206.568	500.000
626.500	1075.000	697.416	0.	1.544	0.	441.717	0.	650.000
626.500	2300.000	699.157	1.741	1.346	0.	718.244	-276.526	650.000
626.500	3000.000	699.932	0.775	1.257	0.	760.764	-319.046	650.000
626.500	5420.000	702.111	2.179	1.067	0.	863.342	-421.625	650.000
632.000	940.000	699.032	0.	1.616	0.	319.209	0.	550.000
632.000	1800.000	700.514	1.482	1.356	0.	511.530	-192.321	550.000
632.000	2400.000	701.195	0.681	1.263	0.	532.026	-212.817	550.000
632.000	4300.000	703.105	1.910	0.995	0.	618.778	-299.569	550.000
633.500	860.000	699.488	0.	0.457	0.	339.872	0.	150.000
633.500	1650.000	700.952	1.463	0.438	0.	524.460	-184.589	150.000
633.500	2150.000	701.625	0.673	0.430	0.	544.960	-205.088	150.000
633.500	3700.000	703.465	1.840	0.360	0.	680.872	-341.000	150.000
641.000	860.000	700.719	0.	1.230	0.	76.181	0.	750.000
641.000	1650.000	702.346	1.627	1.395	0.	267.373	-191.232	750.000
641.000	2150.000	703.016	0.669	1.391	0.	295.983	-219.841	750.000
641.000	3700.000	704.686	1.671	1.221	0.	360.770	-284.629	750.000
642.000	860.000	700.863	0.	0.104	0.	89.104	0.	100.000
642.000	1650.000	702.549	1.686	0.203	0.	279.990	-190.887	100.000
642.000	2150.000	703.279	0.680	0.213	0.	303.227	-214.124	100.000
642.000	3700.000	704.887	1.659	0.201	0.	369.934	-280.830	100.000
642.300	860.000	700.904	0.	0.041	0.	92.721	0.	30.000
642.300	1650.000	702.604	1.700	0.055	0.	281.819	-189.092	30.000
642.300	2150.000	703.287	0.683	0.058	0.	305.322	-212.601	30.000
642.300	3700.000	704.942	1.656	0.055	0.	372.311	-279.590	30.000
645.100	860.000	701.268	0.	0.364	0.	241.561	0.	160.000
645.100	1650.000	702.966	1.698	0.362	0.	369.584	-128.023	160.000
645.100	2150.000	703.633	0.667	0.347	0.	399.969	-158.408	160.000
645.100	3700.000	705.253	1.620	0.311	0.	453.356	-211.794	160.000
664.000	770.000	704.698	0.	3.430	0.	41.015	0.	1890.000
664.000	1450.000	705.909	1.211	2.943	0.	47.928	-4.313	1890.000
664.000	1850.000	706.356	0.447	2.722	0.	52.577	-8.962	1890.000
664.000	3000.000	707.410	1.054	2.157	0.	109.192	-65.577	1890.000

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666.000	776.088	704.706	0.	0.008	0.	36.489	0.	200.000
666.000	1450.000	705.932	1.226	0.023	0.	40.702	-4.203	200.000
666.000	1850.000	707.950	2.018	1.594	0.	117.472	-80.972	200.000
666.000	3000.000	710.211	2.262	2.801	0.	181.328	-144.829	200.000
679.000	770.000	708.102	0.	3.395	0.	37.633	0.	1300.000
679.000	1450.000	710.447	2.346	4.516	0.	57.119	-19.486	1300.000
679.000	1850.000	711.283	0.836	3.333	0.	143.451	-105.818	1300.000
679.000	3000.000	712.604	1.321	2.393	0.	351.918	-314.284	1300.000
697.000	700.000	714.514	0.	6.412	0.	27.650	0.	1800.000
697.000	1280.000	716.585	2.071	6.138	0.	39.595	-11.945	1800.000
697.000	1600.000	717.492	0.907	6.209	0.	42.455	-14.806	1800.000
697.000	2250.000	718.574	1.082	5.970	0.	206.432	-178.783	1800.000
698.000	700.000	715.304	0.	0.790	0.	25.339	0.	100.000
698.000	1280.000	717.319	2.014	0.774	0.	27.449	-2.111	100.000
698.000	1600.000	718.151	0.832	0.659	0.	28.320	-2.981	100.000
698.000	2250.000	718.974	0.823	0.400	0.	29.000	-3.661	100.000
698.300	700.000	715.654	0.	0.350	0.	21.000	0.	70.000
698.300	1280.000	717.322	1.668	0.003	0.	21.000	0.	70.000
698.300	1600.000	717.797	0.475	-0.354	0.	21.000	0.	70.000
698.300	2250.000	717.367	-0.429	-1.606	0.	21.000	0.	70.000
699.000	700.000	716.571	0.	0.917	0.	30.015	0.	70.000
699.000	1280.000	719.560	2.988	2.238	0.	272.386	-242.380	70.000
699.000	1600.000	721.016	1.456	3.219	0.	344.475	-314.459	70.000
699.000	2250.000	724.005	2.990	6.638	0.	470.281	-440.265	70.000
701.000	700.000	716.861	0.	0.290	0.	30.587	0.	110.000
701.000	1280.000	719.796	2.935	0.236	0.	288.382	-257.795	110.000
701.000	1600.000	721.115	1.319	0.099	0.	348.567	-317.970	110.000
701.000	2250.000	724.029	2.914	0.024	0.	471.429	-400.632	110.000
701.500	700.000	717.197	0.	0.335	0.	31.256	0.	150.000
701.500	1280.000	720.049	2.852	0.253	0.	304.684	-273.428	150.000
701.500	1600.000	721.237	1.188	0.122	0.	353.502	-322.336	150.000
701.500	2250.000	724.060	2.824	0.031	0.	472.526	-401.269	150.000
705.300	700.000	716.199	0.	1.002	0.	27.036	0.	380.000
705.300	1280.000	720.584	2.385	0.535	0.	68.579	-41.543	380.000
705.300	1600.000	721.414	0.830	0.177	0.	144.350	-117.314	380.000
705.300	2250.000	724.123	2.709	0.063	0.	290.052	-263.010	380.000
707.300	700.000	718.284	0.	0.085	0.	31.533	0.	200.000
707.300	1280.000	720.693	2.409	0.109	0.	45.934	-14.401	200.000
707.300	1600.000	721.518	0.825	0.104	0.	101.969	-70.436	200.000
707.300	2250.000	724.136	2.618	0.013	0.	254.171	-222.638	200.000
720.900	600.000	725.036	0.	6.753	0.	26.635	0.	1360.000
720.900	1280.000	727.511	2.474	6.818	0.	32.787	-6.152	1360.000
720.900	1600.000	728.395	0.884	6.877	0.	187.723	-161.088	1360.000
720.900	2300.000	727.344	-1.051	3.208	0.	32.363	-5.729	1360.000
727.500	600.000	725.256	0.	0.219	0.	18.000	0.	660.000
727.500	1280.000	730.003	4.788	2.493	0.	18.000	0.	660.000
727.500	1600.000	732.944	2.941	4.549	0.	18.000	0.	660.000
727.500	2300.000	737.277	4.333	9.933	0.	577.838	-559.838	660.000
729.000	600.000	726.770	0.	1.515	0.	47.316	0.	150.000
729.000	1280.000	731.177	4.407	1.174	0.	109.807	-62.491	150.000
729.000	1600.000	733.928	2.751	0.984	0.	389.561	-342.244	150.000
729.000	2300.000	737.298	3.370	0.021	0.	663.122	-615.806	150.000
740.000	600.000	733.650	0.	6.880	0.	21.380	0.	1100.000

740,000	1600,000	736,393	0.430	2.464	0.	153,380	-152,001	1100,000
740,000	2300,000	737,067	0.674	-0.231	0.	172,738	-151,356	1100,000

DATA FOR LAST CROSS SECTION

PROFILE	TYPE ENC	TARGET	TOP WIDTH AREA=ACRES	TOP WIDTH AREA=DIFF
1	0.	0.	80.516	0.
2	0.	0.	167.879	87.363
3	0.	0.	214.928	134.412
4	0.	0.	278.197	197.681

 HEC2 VERSION UPDATED JAN 1976
 ERROR CORRECTIONS 01,02,03,04,05,06,07,08,09
 MODIFICATIONS 52,53,54,55,56,57,58

NOTE - THIS PRINT-OUT IS PART II
 OF THIS CREEK.

PROFILE PLOTTED 4-28-76
 by FLETCHER

T1	GASTONIA N C										
T2	FLOOD INSURANCE										
T3	CATAWBA CREEK 10-YR Q										
J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	WVINS	Q	WSEL	FO	
	0	2.	0.	0	0	0	0	0	733,700	-0	
J2	NPROF	TPLLOT	PRFVS	XSECV	XSECH	FN	ALLOC	IRW	CHNIM	ITRACE	
	1,000	-0	-1,000	-0	-0	-0	-0	-0	-0	-0	
J3	1,000	34,000	3,000	4,000	27,000	28,000	26,000	-0	-0	-0	
VC	.100	.100	.050	.100	.300	-0	-0	-0	-0	-0	
QT	5,000	600,000	1280,000	1600,000	1600,000	2300,000	-0	-0	-0	-0	
X1	760,700	15,000	430,000	455,000	-0	-0	-0	-0	-0	-0	
GR	750,000	70,000	745,000	230,000	740,400	500,000	735,900	450,000	734,400	400,000	
GR	735,000	430,000	727,900	444,000	734,200	455,000	736,500	500,000	742,300	600,000	
GR	751,300	650,000	744,200	750,000	747,500	800,000	746,000	450,000	751,000	912,000	
X1	741,000	0	0	0	30,000	30,000	30,000	1,000	0	-0	
X3	10,000	-0	-0	-0	-0	-0	-0	740,000	740,000	-0	
SB	.210	1,050	2,500	200,000	8,000	0	50,240	0	729,000	725,700	
X1	751,800	10,000	552,000	560,000	80,000	80,000	80,000	-0	-0	-0	
X2	0	-0	1,000	739,800	740,600	-0	-0	-0	-0	-0	
X3	10,000	-0	-0	-0	-0	-0	-0	741,000	741,000	-0	
GR	750,000	0	739,800	552,000	738,000	553,000	733,000	553,000	720,400	559,500	
GR	738,000	559,500	741,000	560,000	740,300	600,000	742,500	450,000	744,300	900,000	
X1	742,000	0,000	553,000	560,000	20,000	20,000	20,000	-0	-0	-0	
GR	750,000	0	740,500	400,000	733,000	553,000	729,400	559,500	741,000	560,000	
GR	740,300	600,000	742,500	450,000	744,300	900,000	-0	-0	-0	-0	
X1	742,400	15,000	330,000	400,000	80,000	80,000	80,000	-0	-0	-0	
X3	10,000	-0	-0	-0	-0	-0	-0	740,000	740,000	-0	
GR	750,000	20,000	745,000	150,000	741,000	200,000	740,600	220,000	740,600	250,000	
GR	735,700	300,000	736,000	330,000	730,700	342,000	730,300	347,000	730,800	354,000	
GR	732,300	357,000	737,100	400,000	738,200	450,000	738,600	481,000	750,000	513,000	
SB	1,250	2,040	2,600	0	20,300	.500	156,000	0	0	0	
X1	745,000	20,000	478,000	500,000	220,000	220,000	220,000	0	0	-0	
X2	0	0	1,000	739,800	741,300	-0	-0	-0	-0	-0	
X3	10,000	-0	-0	-0	-0	-0	-0	740,000	740,000	-0	
BT	10,000	0	750,000	739,800	100,000	747,000	739,800	200,000	743,800	739,800	
BT	300,000	740,600	739,800	450,000	742,500	739,800	500,000	743,100	739,800	550,000	
BT	744,100	739,800	650,000	744,500	739,800	700,000	749,200	739,800	714,000	750,000	
BT	739,800	-0	-0	-0	-0	-0	-0	-0	-0	-0	
GR	751,400	0	750,800	27,000	750,000	37,000	743,200	50,000	742,700	100,000	
GR	742,900	150,000	742,600	200,000	741,700	300,000	737,200	350,000	737,000	400,000	
GR	737,200	450,000	740,000	457,000	733,800	465,000	737,900	478,000	732,200	484,000	
GR	732,000	488,000	732,200	497,000	737,200	500,000	743,700	550,000	749,400	600,000	

20263

X1	746.000	-0	-0	100.000	100.000	100.000	100.000	100.000	-0	-0
X1	752.500	14.000	548.000	554.000	450.000	450.000	450.000	450.000	0	0
GR	765.000	55.000	755.000	160.000	300.000	744.500	450.000	740.000	740.000	400.000
GR	742.500	414.000	742.300	450.000	741.700	500.000	740.800	548.000	734.300	553.000
GR	740.400	556.000	742.700	400.000	745.200	424.000	765.000	685.000	-0	-0
X1	753.500	-0	-0	100.000	100.000	100.000	100.000	100.000	-0	-0
X3	10.000	-0	-0	-0	-0	-0	-0	-0	-0	-0
SB	1.500	1.500	2.500	0	7.000	7.000	0	49.000	737.700	737.200
X1	754.000	14.000	246.500	253.500	50.000	50.000	50.000	50.000	-0	-0
GR	744.400	741.300	742.800	742.800	300.000	744.600	744.600	744.200	744.200	744.200
GR	755.000	0	752.500	50.000	750.400	100.000	748.600	150.000	742.500	200.000
GR	742.400	246.400	741.300	246.500	738.800	247.500	737.800	250.000	738.600	252.500
GR	744.400	350.000	756.100	400.000	400.000	-0	-0	-0	-0	-0
X1	758.500	14.000	488.000	510.000	400.000	400.000	400.000	400.000	-0	-0
GR	770.000	0	765.000	140.000	761.100	500.000	758.100	350.000	757.000	400.000
GR	756.600	450.000	754.200	488.000	747.000	494.000	745.300	500.000	746.600	503.000
GR	752.800	510.000	757.600	550.000	765.000	650.000	770.000	480.000	-0	-0
X1	760.000	16.000	182.000	220.000	150.000	150.000	150.000	150.000	-0	-0
GR	768.500	0	765.000	50.000	761.200	94.000	758.100	100.000	754.400	150.000
GR	756.900	142.000	747.100	194.000	746.900	200.000	747.200	202.000	755.600	220.000
GR	757.300	250.000	758.000	285.000	760.300	300.000	765.000	400.000	765.000	450.000
GR	770.000	500.000	-0	-0	-0	-0	-0	-0	-0	-0
X1	760.500	-0	-0	50.000	50.000	50.000	50.000	50.000	-0	-0
X3	10.000	-0	-0	-0	-0	-0	-0	-0	-0	-0
SB	1.250	1.500	2.500	0	9.000	2.000	53.000	0	754.200	-0
X1	761.500	13.000	195.500	204.500	100.000	100.000	100.000	100.000	-0	-0
X2	-0	-0	757.000	-0	-0	-0	-0	-0	-0	-0
X3	10.000	-0	-0	-0	-0	-0	-0	-0	-0	-0
BT	9.000	0	768.900	0	50.000	784.400	0	100.000	761.200	0
BT	150.000	759.500	195.500	759.000	757.000	204.500	759.000	757.000	757.000	250.000
BT	759.600	0	300.000	760.800	0	500.000	763.600	0	-0	-0
GR	766.200	0	765.200	25.000	765.100	50.000	759.100	100.000	759.100	150.000
GR	758.100	190.000	750.300	197.000	750.000	203.000	749.700	203.000	759.000	215.000
GR	760.200	250.000	761.800	300.000	765.000	500.000	765.000	500.000	-0	-0
X1	767.000	13.000	144.000	170.000	500.000	500.000	500.000	500.000	-0	-0
GR	777.200	0	777.400	20.000	775.900	23.000	774.600	50.000	766.600	100.000
GR	756.900	144.000	755.000	148.000	754.100	150.000	754.300	152.000	766.100	170.000
GR	765.700	200.000	765.700	230.000	775.000	270.000	770.000	270.000	765.700	-0
GR	5.000	420.000	740.000	860.000	860.000	1130.000	-0	-0	-0	-0
X1	769.500	15.000	160.000	192.000	250.000	250.000	250.000	250.000	-0	-0

 HEC2 VERSION UPDATED JAN 1976
 ERROR CORRECTIONS 01,02,03,04,05,06,07,08,09
 MODIFICATIONS 52,53,54,55,56,57,58

T1 GASTONIA N C
 T2 FLOOD INSURANCE
 T3 CATAWBA CREEK 50-YR Q

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	D	WSEL	FQ
	0	3.	0	0	0	0	0	0	736,000	-0
J2	NPROF	YPLT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	2,000	-0	-1,000	-0	-0	-0	-0	-0	-0	-0

 HEC2 VERSION UPDATED JAN 1976
 ERROR CORRECTIONS 01,02,03,04,05,06,07,08,09
 MODIFICATIONS 52,53,54,55,56,57,58

T1 GASTONIA N C
 T2 FLOOD INSURANCE
 T3 CATAWBA CREEK 100-YR Q

J1	ICHECK	ING	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FG
	0	4	0	0	0	0	0	0	736,400	-0
J2	NPROF	IPLT	PRFVS	XBECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	3,000	-0	-1,000	-0	-0	-0	-0	-0	-0	-0

SUMMARY PRINTOUT FOR MULTIPLE PROFILES

CATAWBA CREEK 500-YR Q

SECTION NUMBER	CHANNEL LENGTH	MIN EL OF ROADWAY	MAY EL OF LOW CHORD	MIN EL OF GROUND	DISCHARGE (CFS)	CWSEL	TD	ER	TOPWTD	STENCL	STENCH	VCH
740.70	-0	0	0	727.90	600.00	733.70	34.72	735.13	21.56	0	0	9.50
740.70	-0	0	0	727.90	1280.00	736.02	109.28	737.10	142.08	0	0	9.04
740.70	-0	0	0	727.90	1600.00	736.49	139.43	737.57	156.35	0	0	9.43
740.70	-0	0	0	727.90	2300.00	737.15	192.98	738.37	175.06	0	0	10.60
741.00	30.00	0	0	727.90	600.00	735.04	62.16	735.67	25.00	0	0	6.38
741.00	30.00	0	0	727.90	1280.00	735.99	89.69	737.82	25.00	0	0	10.85
741.00	30.00	0	0	727.90	1600.00	736.30	99.11	738.82	25.00	0	0	12.74
741.00	30.00	0	0	727.90	2300.00	737.62	144.10	740.88	25.00	0	0	14.49
741.80	80.00	740.60	739.80	729.40	600.00	737.57	19.88	740.83	6.50	0	0	14.49
741.80	80.00	740.60	739.80	729.40	1280.00	742.08	103.42	742.49	373.39	0	0	7.44
741.80	80.00	740.60	739.80	729.40	1600.00	742.30	123.25	742.71	409.95	0	0	7.92
741.80	80.00	740.60	739.80	729.40	2300.00	742.68	168.51	743.09	459.13	0	0	8.55
742.00	20.00	0	0	729.40	600.00	741.17	322.81	741.18	325.93	0	0	1.29
742.00	20.00	0	0	729.40	1280.00	742.54	558.59	742.56	536.79	0	0	1.73
742.00	20.00	0	0	729.40	1600.00	742.77	613.33	742.79	552.79	0	0	2.00
742.00	20.00	0	0	729.40	2300.00	743.15	713.70	743.19	579.57	0	0	2.53
742.80	80.00	0	0	730.30	600.00	741.18	807.44	741.19	292.86	0	0	.84
742.80	80.00	0	0	730.30	1280.00	742.55	1166.09	742.57	312.80	0	0	1.38
742.80	80.00	0	0	730.30	1600.00	742.79	1234.43	742.82	314.33	0	0	1.66
742.80	80.00	0	0	730.30	2300.00	743.18	1353.78	743.23	322.26	0	0	2.24
745.00	220.00	741.30	739.80	732.00	600.00	741.52	465.71	741.53	231.32	0	0	1.34
745.00	220.00	741.30	739.80	732.00	1280.00	742.86	703.54	742.88	443.65	0	0	2.13
745.00	220.00	741.30	739.80	732.00	1600.00	743.14	766.04	743.18	489.59	0	0	2.49
745.00	220.00	741.30	739.80	732.00	2300.00	743.63	890.70	743.68	506.26	0	0	3.17
746.00	100.00	0	0	732.00	600.00	741.53	467.38	741.55	231.53	0	0	1.36
746.00	100.00	0	0	732.00	1280.00	742.89	709.52	742.92	458.30	0	0	2.11
746.00	100.00	0	0	732.00	1600.00	743.18	770.86	743.22	493.58	0	0	2.46
746.00	100.00	0	0	732.00	2300.00	743.70	909.33	743.76	500.92	0	0	3.12
752.50	650.00	0	0	736.30	600.00	742.42	43.14	742.87	206.60	0	0	7.96
752.50	650.00	0	0	736.30	1280.00	743.33	102.84	743.66	242.91	0	0	8.17
752.50	650.00	0	0	736.30	1600.00	743.81	147.21	744.07	252.88	0	0	7.60
752.50	650.00	0	0	736.30	2300.00	744.61	239.86	744.85	269.39	0	0	7.37
753.50	100.00	0	0	736.30	600.00	744.21	190.17	744.23	261.18	0	0	2.32
753.50	100.00	0	0	736.30	1280.00	744.30	200.89	744.40	263.10	0	0	4.73
753.50	100.00	0	0	736.30	1600.00	744.65	240.18	744.76	276.00	0	0	5.05
753.50	100.00	0	0	736.30	2300.00	745.35	345.49	745.48	282.14	0	0	5.52
754.00	50.00	746.40	744.70	737.80	600.00	747.91	32.70	748.60	238.60	0	0	8.20
754.00	50.00	746.40	744.70	737.80	1280.00	748.86	633.70	748.88	252.78	0	0	2.09
754.00	50.00	746.40	744.70	737.80	1600.00	749.33	718.83	749.35	259.53	0	0	2.37
754.00	50.00	746.40	744.70	737.80	2300.00	750.00	873.83	750.13	270.86	0	0	2.94

29277

SECTION NUMBER	CHANNEL LENGTH	MIN EL OF ROADWAY	MAY EL OF LOW CHORD	MIN EL OF GROUND	DISCHARGE (CFS)	CWSEL	TG	EG	TOPWTD	STENCI	STENCH	VCH
754.50	50.00	0	0	738.20	600.00	748.67	767.33	748.68	240.88	0	0	1.02
754.50	50.00	0	0	738.20	1050.00	748.87	808.02	748.89	252.89	0	0	1.71
754.50	50.00	0	0	738.20	1240.00	749.35	907.07	749.37	259.92	0	0	1.86
754.50	50.00	0	0	738.20	1600.00	750.12	1083.86	750.15	271.54	0	0	2.11
758.50	400.00	0	0	745.30	600.00	750.70	33.28	752.44	16.72	0	0	10.56
758.50	400.00	0	0	745.30	1050.00	752.39	59.88	754.61	20.03	0	0	11.96
758.50	400.00	0	0	745.30	1240.00	752.95	71.01	755.37	22.20	0	0	12.49
758.50	400.00	0	0	745.30	1600.00	754.03	97.93	756.63	32.10	0	0	12.98
760.00	150.00	0	0	746.90	600.00	753.91	77.11	754.34	29.50	0	0	5.28
760.00	150.00	0	0	746.90	1050.00	755.86	142.11	756.40	40.97	0	0	5.88
760.00	150.00	0	0	746.90	1240.00	756.53	173.01	757.11	65.43	0	0	6.09
760.00	150.00	0	0	746.90	1600.00	757.58	241.61	758.16	148.48	0	0	6.27
760.50	50.00	0	0	746.90	600.00	754.25	86.75	754.61	30.81	0	0	4.83
760.50	50.00	0	0	746.90	1050.00	756.18	156.50	756.65	34.84	0	0	5.52
760.50	50.00	0	0	746.90	1240.00	756.85	190.13	757.35	101.99	0	0	5.71
760.50	50.00	0	0	746.90	1600.00	757.88	267.77	758.37	172.78	0	0	5.80
761.50	100.00	759.00	757.00	749.00	600.00	755.92	36.13	757.36	9.00	0	0	9.63
761.50	100.00	759.00	757.00	749.00	1050.00	757.30	45.70	760.36	9.00	0	0	14.05
761.50	100.00	759.00	757.00	749.00	1240.00	759.99	110.63	760.73	166.59	0	0	8.34
761.50	100.00	759.00	737.00	749.00	1600.00	760.67	150.37	761.25	187.81	0	0	8.03
762.00	50.00	0	0	749.70	600.00	757.53	78.41	758.01	22.61	0	0	5.53
762.00	50.00	0	0	749.70	1050.00	760.69	222.06	760.95	177.86	0	0	4.57
762.00	50.00	0	0	749.70	1240.00	760.68	221.73	761.05	177.71	0	0	5.40
762.00	50.00	0	0	749.70	1600.00	761.10	259.77	761.56	190.29	0	0	5.17
767.00	500.00	0	0	754.10	600.00	760.90	65.94	761.50	36.20	0	0	6.62
767.00	500.00	0	0	754.10	1050.00	762.32	106.05	763.18	40.83	0	0	8.11
767.00	500.00	0	0	754.10	1240.00	762.86	124.31	763.79	48.08	0	0	8.49
767.00	500.00	0	0	754.10	1600.00	763.64	154.76	764.72	52.90	0	0	9.27
769.50	250.00	0	0	756.40	420.00	762.89	56.42	763.28	38.81	0	0	4.95
769.50	250.00	0	0	756.40	740.00	764.57	107.15	764.99	58.39	0	0	5.44
769.50	250.00	0	0	756.40	860.00	765.14	129.57	765.55	69.02	0	0	5.48
769.50	250.00	0	0	756.40	1130.00	766.08	176.58	766.40	101.14	0	0	5.66
770.00	50.00	0	0	756.40	420.00	763.21	60.22	763.51	42.48	0	0	4.51
770.00	50.00	0	0	756.40	740.00	764.86	117.81	765.21	61.62	0	0	5.07
770.00	50.00	0	0	756.40	860.00	765.40	140.96	765.76	76.24	0	0	5.14
770.00	50.00	0	0	756.40	1130.00	766.33	191.19	766.68	109.06	0	0	5.32
771.00	100.00	770.80	762.90	757.90	420.00	771.12	654.07	771.12	365.84	0	0	.61
771.00	100.00	770.80	762.90	757.90	740.00	771.76	800.81	771.76	390.62	0	0	.91
771.00	100.00	770.80	762.90	757.90	860.00	771.92	842.07	771.93	397.10	0	0	1.02
771.00	100.00	770.80	762.90	757.90	1130.00	772.23	924.57	772.20	408.49	0	0	1.24

SECTION NUMBER	CHANNEL LENGTH	MTN EL OF ROADWAY	PAY EL OF LOW CHORD	MTN EL OF GROUND	DISCHARGE (CFS)	CWSEL	TD	EG	TOPWID	STENCL	STENCH	VCH
772.00	100.00	0	0	760.30	420.00	771.12	740.90	771.14	371.84	0	0	.60
772.00	100.00	0	0	760.30	740.00	771.76	905.89	771.77	380.25	0	0	.90
772.00	100.00	0	0	760.30	860.00	771.93	950.97	771.93	384.94	0	0	1.01
772.00	100.00	0	0	760.30	1130.00	772.25	1039.37	772.25	387.22	0	0	1.24
774.50	250.00	0	0	760.60	420.00	771.13	638.73	771.14	365.21	0	0	0
774.50	250.00	0	0	760.60	740.00	771.78	789.89	771.79	378.79	0	0	0
774.50	250.00	0	0	760.60	860.00	771.95	832.82	771.96	382.13	0	0	0
774.50	250.00	0	0	760.60	1130.00	772.28	917.46	772.28	384.98	0	0	0

SECTION NUMBER	DISCHARGE CFS	CWSEL	CWSEL DIFF EACH Q	CWSEL DIFF EACH SECTION	CWSEL - WSELK	TOPWID	T.W. DIFF	LENGTH
740.700	600.000	733.700	0	0	0	21.560	0	-0
740.700	1280.000	736.024	2.324	0	0	142.070	-120.515	-0
740.700	1600.000	736.490	.465	0	0	156.347	-134.784	-0
740.700	2300.000	737.140	.650	0	0	175.060	-153.497	-0
741.000	600.000	735.038	0	1.338	0	25.000	0	30.000
741.000	1280.000	735.993	.955	-.052	0	25.000	0	30.000
741.000	1600.000	736.296	.303	-.194	0	25.000	0	30.000
741.000	2300.000	737.622	1.326	.473	0	25.000	0	30.000
741.800	600.000	737.572	0	2.534	0	6.500	0	80.000
741.800	1280.000	742.078	4.507	6.086	0	373.391	-366.891	80.000
741.800	1600.000	742.296	.218	6.001	0	409.953	-403.453	80.000
741.800	2300.000	742.683	.387	5.061	0	459.129	-452.629	80.000
742.000	600.000	741.169	0	3.597	0	325.925	0	20.000
742.000	1280.000	742.537	1.368	.450	0	536.794	-210.868	20.000
742.000	1600.000	742.766	.229	.469	0	552.787	-226.862	20.000
742.000	2300.000	743.140	.373	.466	0	579.570	-253.640	20.000
742.800	600.000	741.181	0	.012	0	292.058	0	80.000
742.800	1280.000	742.553	1.372	.016	0	312.800	-20.742	80.000
742.800	1600.000	742.785	.233	.019	0	316.331	-24.272	80.000
742.800	2300.000	743.177	.391	.028	0	322.257	-30.190	80.000
745.000	600.000	741.518	0	.337	0	231.318	0	220.000
745.000	1280.000	742.861	1.343	.300	0	443.651	-212.333	220.000
745.000	1600.000	743.139	.278	.354	0	489.586	-258.268	220.000
745.000	2300.000	743.628	.489	.451	0	500.260	-268.946	220.000
746.000	600.000	741.534	0	.017	0	231.526	0	100.000
746.000	1280.000	742.895	1.361	.033	0	458.304	-226.778	100.000
746.000	1600.000	743.183	.288	.040	0	493.583	-262.057	100.000
746.000	2300.000	743.696	.513	.068	0	500.917	-269.390	100.000
752.500	600.000	742.420	0	.885	0	206.600	0	650.000
752.500	1280.000	743.326	.906	.431	0	242.907	-36.307	650.000
752.500	1600.000	743.806	.480	-.623	0	252.878	-46.278	650.000
752.500	2300.000	744.613	.807	-.918	0	260.393	-62.793	650.000
753.500	600.000	744.205	0	1.786	0	261.177	0	100.000
753.500	1280.000	744.298	.092	.972	0	263.100	-1.923	100.000
753.500	1600.000	744.647	.349	.841	0	270.003	-8.826	100.000
753.500	2300.000	745.347	.700	.733	0	282.142	-20.965	100.000
754.000	600.000	747.911	0	3.706	0	238.601	0	50.000
754.000	1280.000	748.859	.948	4.562	0	252.782	-14.181	50.000
754.000	1600.000	749.325	.466	4.678	0	259.529	-20.928	50.000

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754,000	2300,000	750,090	.765	0,743	0	270,855	-32,254	50,000
754,500	600,000	748,672	0	.761	0	249,876	0	50,000
754,500	1050,000	748,870	.202	.015	0	252,891	-3,016	50,000
754,500	1240,000	748,346	.471	.020	0	259,919	-10,044	50,000
754,500	1600,000	750,125	.779	.035	0	271,539	-21,663	50,000
758,500	600,000	750,703	0	2,031	0	16,718	0	400,000
758,500	1050,000	752,391	1,688	3,516	0	20,030	-3,312	400,000
758,500	1240,000	752,949	.559	3,604	0	22,203	-5,485	400,000
758,500	1600,000	754,029	1,080	3,904	0	32,103	-15,385	400,000
760,000	600,000	753,906	0	3,203	0	29,496	0	150,000
760,000	1050,000	755,863	1,958	3,473	0	40,970	-11,474	150,000
760,000	1240,000	756,532	.668	3,582	0	65,427	-35,931	150,000
760,000	1600,000	757,581	1,049	3,551	0	148,481	-118,985	150,000
760,500	600,000	754,251	0	.345	0	30,811	0	50,000
760,500	1050,000	756,181	1,930	.318	0	36,835	-6,024	50,000
760,500	1240,000	756,846	.664	.314	0	101,987	-71,176	50,000
760,500	1600,000	757,877	1,031	.296	0	172,778	-141,967	50,000
761,500	600,000	755,920	0	1,660	0	9,000	0	100,000
761,500	1050,000	757,298	1,378	1,116	0	9,000	0	100,000
761,500	1240,000	759,992	2,690	3,146	0	166,590	-157,590	100,000
761,500	1600,000	760,670	.682	2,797	0	187,812	-178,812	100,000
762,000	600,000	757,531	0	1,611	0	22,613	0	50,000
762,000	1050,000	760,688	3,157	3,391	0	177,850	-155,246	50,000
762,000	1240,000	760,680	-.008	.688	0	177,707	-155,094	50,000
762,000	1600,000	761,101	.421	.427	0	194,290	-171,681	50,000
767,000	600,000	760,898	0	3,367	0	36,203	0	500,000
767,000	1050,000	762,319	1,422	1,631	0	44,833	-8,630	500,000
767,000	1240,000	762,858	.539	2,178	0	48,083	-11,880	500,000
767,000	1600,000	763,642	.784	2,541	0	52,895	-16,692	500,000
769,500	420,000	762,888	0	1,990	0	38,811	0	250,000
769,500	740,000	764,575	1,687	2,255	0	58,389	-19,578	250,000
769,500	860,000	765,143	.568	2,285	0	69,021	-30,211	250,000
769,500	1130,000	766,082	.939	2,440	0	101,137	-62,326	250,000
770,000	420,000	763,205	0	.317	0	42,486	0	50,000
770,000	740,000	764,858	1,653	.283	0	61,617	-19,137	50,000
770,000	860,000	765,405	.547	.261	0	79,242	-36,762	50,000
770,000	1130,000	766,331	.926	.248	0	109,058	-66,578	50,000
771,000	420,000	771,121	0	7,916	0	365,841	0	100,000
771,000	740,000	771,755	.635	8,898	0	390,616	-24,774	100,000
771,000	860,000	771,921	.164	6,516	0	397,102	-31,261	100,000
771,000	1130,000	772,232	.311	5,901	0	400,493	-34,652	100,000
772,000	420,000	771,120	0	.004	0	371,841	0	100,000
772,000	740,000	771,763	.639	.008	0	384,247	-12,406	100,000
772,000	860,000	771,930	.168	.009	0	386,937	-15,096	100,000
772,000	1130,000	772,245	.315	.013	0	387,223	-15,382	100,000
774,500	420,000	771,134	0	.010	0	365,210	0	250,000
774,500	740,000	771,783	.649	.020	0	378,789	-13,578	250,000
774,500	860,000	771,954	.172	.024	0	382,125	-16,915	250,000
774,500	1130,000	772,279	.325	.034	0	386,980	-21,770	250,000

DATA FOR LAST CROSS SECTION

PROFILE	TYPE ENC	TARGET	TOP WIDTH AREA-ACRES	TOP WIDTH AREA-DIFF
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