
 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 FLOOD INSURANCE STUDY
 T2 GASTONIA NORTH CAROLINA
 T3 LONG CREEK 100 YEAR FLOOD CATOE

J1	ICHECK	ING	XINV	IDIP	STRT	METRIC	SVINS		WSET	FC		
	0.	0.	0.	0.	0.	0.	0.	0.	658,900	0.		
J2	NPROF	IPLDT	WFAVS	XSECV	XSECH	FN	MLDCT	TRG	TRDPT	ITRACE		
	1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.		
J3	1,000	34,000	3,000	4,000	27,000	26,000	26,000	26,000	0.	0.	0.	0.
NC	0.075	0.075	0.100	0.100	0.500	0.	0.	0.	0.	0.	0.	0.
UT	5,000	3800,000	7400,000	9600,000	9600,000	17400,000	0.	0.	0.	0.	0.	0.
ET	0.	0.	0.	0.	10,400	1.	0.	0.	0.	0.	0.	0.
X1	90,000	14,000	170,000	223,000	0.	0.	0.	0.	0.	0.	0.	0.
GR	673,000	0.	667,700	50,000	664,000	100,000	662,200	150,000	662,000	170,000	0.	0.
GR	648,300	188,000	647,000	200,000	648,000	215,000	658,800	273,000	656,700	250,000	0.	0.
GR	658,200	300,000	660,000	350,000	664,000	400,000	675,000	450,000	0.	0.	0.	0.
X1	97,500	14,000	175,000	228,000	750,000	750,000	750,000	0.	0.	0.	0.	0.
GR	686,000	0.	680,000	50,000	665,300	100,000	659,800	120,000	657,100	150,000	0.	0.
GR	658,300	175,000	648,100	185,000	648,500	200,000	646,800	219,000	658,000	228,000	0.	0.
GR	658,500	238,000	665,100	250,000	667,700	300,000	680,000	350,000	0.	0.	0.	0.
X1	112,000	25,000	483,000	523,000	1450,000	1450,000	1450,000	0.	0.	0.	0.	0.
GR	681,000	0.	675,000	38,000	670,000	50,000	665,000	70,000	664,500	100,000	0.	0.
GR	662,800	150,000	660,800	200,000	659,500	250,000	658,400	300,000	657,300	350,000	0.	0.
GR	657,000	400,000	657,600	450,000	659,800	483,000	650,700	492,000	647,800	500,000	0.	0.
GR	650,900	517,000	658,200	523,000	658,600	550,000	658,400	600,000	657,600	650,000	0.	0.
GR	659,300	700,000	662,400	725,000	667,400	750,000	670,000	800,000	676,000	825,000	0.	0.
X1	123,000	22,000	225,000	273,000	1100,000	1100,000	1100,000	0.	0.	0.	0.	0.
GR	680,000	0.	666,400	100,000	659,100	130,000	656,500	150,000	656,200	200,000	0.	0.
GR	656,100	225,000	647,700	235,000	646,800	250,000	648,000	280,000	647,000	273,000	0.	0.
GR	657,200	300,000	657,900	350,000	657,100	400,000	656,400	450,000	654,800	500,000	0.	0.
GR	654,500	550,000	654,700	563,000	657,700	600,000	662,900	650,000	663,700	680,000	0.	0.
GR	666,900	700,000	680,000	900,000	0.	0.	0.	0.	0.	0.	0.	0.
X1	133,000	17,000	270,000	325,000	1600,000	1600,000	1600,000	0.	0.	0.	0.	0.
GR	678,000	0.	660,200	100,000	658,400	150,000	650,000	200,000	647,500	250,000	0.	0.
GR	657,400	270,000	649,600	281,000	646,200	300,000	644,800	318,000	647,800	325,000	0.	0.
GR	656,800	350,000	660,000	380,000	661,500	425,000	662,400	470,000	665,500	480,000	0.	0.
GR	672,400	450,000	677,000	470,000	0.	0.	0.	0.	0.	0.	0.	0.
X1	147,800	19,000	238,000	277,000	1480,000	1480,000	1480,000	0.	0.	0.	0.	0.
GR	691,000	0.	682,300	50,000	659,100	100,000	659,400	150,000	657,300	200,000	0.	0.
GR	659,300	238,000	652,600	247,000	649,800	257,000	649,500	289,000	659,400	277,000	0.	0.
GR	656,800	350,000	659,000	400,000	658,800	450,000	657,800	500,000	656,700	550,000	0.	0.
GR	658,000	600,000	659,200	650,000	672,400	700,000	682,600	750,000	0.	0.	0.	0.
X1	151,000	20,000	170,000	225,000	320,000	320,000	320,000	0.	0.	0.	0.	0.

GR	674,600	0.	659,500	50,000	657,600	100,000	659,000	150,000	661,300	170,000
GR	652,900	182,000	650,700	200,000	648,600	215,000	659,400	225,000	661,200	250,000
GR	660,500	300,000	659,900	350,000	659,400	400,000	660,400	450,000	660,600	500,000
GR	661,400	550,000	662,500	590,000	663,800	600,000	672,200	650,000	678,000	680,000
X1	163,800	20,000	197,000	245,000	1280,000	1280,000	1280,000	0.	0.	0.
GR	700,000	0.	692,500	50,000	682,700	100,000	675,000	135,000	668,800	150,000
GR	668,300	163,000	664,100	173,000	662,000	197,000	653,000	204,000	652,700	217,000
GR	652,600	234,000	662,700	245,000	662,700	250,000	661,400	305,000	662,600	350,000
GR	672,700	370,000	680,000	400,000	690,700	450,000	698,000	500,000	700,000	513,000
X1	181,700	20,000	450,000	527,000	1790,000	1790,000	1790,000	0.	0.	0.
GR	665,000	80,000	680,000	160,000	675,000	200,000	671,500	250,000	667,100	300,000
GR	666,500	350,000	665,000	400,000	663,700	450,000	663,400	475,000	660,600	476,000
GR	660,400	485,000	654,900	490,000	654,300	502,000	654,700	515,000	663,600	527,000
GR	664,100	550,000	668,000	600,000	675,100	650,000	680,000	690,000	685,000	740,000
SB	1,250	2,040	3,100	0.	162,900	10,400	1250,000	0.	0.	0.
NC	0,040	0,060	0,060	0,100	0,300	0.	0.	0.	0.	0.
X1	183,900	29,000	1367,000	1425,000	220,000	220,000	220,000	0.	0.	0.
X2	0.	0.	1,000	674,100	679,300	0.	0.	0.	0.	0.
BT	10,000	0.	689,800	674,100	200,000	682,400	674,100	300,000	679,700	674,100
BT	400,000	679,700	674,100	439,000	679,900	674,100	650,000	679,600	674,100	750,000
BT	681,800	674,100	600,000	683,800	674,100	950,000	691,000	674,100	1032,000	694,800
BT	674,100	0.	0.	0.	0.	0.	0.	0.	0.	0.
GR	680,000	50,000	675,000	170,000	670,000	570,000	669,000	600,000	665,200	650,000
GR	665,200	700,000	664,700	750,000	664,700	800,000	664,400	850,000	664,100	900,000
GR	664,200	950,000	664,000	1000,000	663,600	1050,000	663,500	1100,000	663,400	1150,000
GR	663,600	1200,000	663,300	1250,000	663,300	1300,000	665,200	1350,000	661,600	1367,000
GR	655,000	1375,000	654,600	1385,000	655,000	1397,000	656,800	1401,000	659,400	1406,000
GR	670,000	1425,000	670,400	1450,000	673,200	1500,000	680,000	1550,000	0.	0.
X1	194,000	20,000	455,000	498,000	1010,000	1010,000	1010,000	0.	0.	0.
GR	685,000	50,000	680,000	70,000	675,000	100,000	686,400	150,000	682,500	200,000
GR	662,000	268,000	660,500	275,000	661,700	288,000	662,200	350,000	662,300	400,000
GR	665,300	450,000	665,000	455,000	655,900	465,000	655,500	475,000	655,500	487,000
GR	665,800	498,000	663,200	550,000	663,700	600,000	667,500	650,000	685,000	700,000
X1	217,400	35,000	938,000	989,000	2340,000	2340,000	2340,000	0.	0.	0.
GR	685,000	30,000	680,000	160,000	675,000	300,000	673,200	350,000	671,100	400,000
GR	670,000	450,000	667,800	500,000	666,800	550,000	666,500	600,000	666,200	650,000
GR	665,700	700,000	665,900	750,000	666,300	800,000	666,000	850,000	666,600	900,000
GR	667,200	938,000	658,800	947,000	656,600	956,000	658,900	966,000	668,300	989,000
GR	667,500	1000,000	667,400	1050,000	666,000	1100,000	665,600	1150,000	665,300	1200,000
GR	666,000	1250,000	664,600	1300,000	664,600	1350,000	664,600	1400,000	665,700	1450,000
GR	666,100	1500,000	669,400	1600,000	671,200	1665,000	660,000	1755,000	665,000	1825,000
NC	0,075	0,075	0,100	0,100	0,300	0.	0.	0.	0.	0.
QT	5,000	3400,000	6600,000	9000,000	9000,000	16000,000	0.	0.	0.	0.
X1	240,000	20,000	1087,000	1127,000	2260,000	2260,000	2260,000	0.	0.	0.
GR	680,000	30,000	675,000	50,000	670,000	450,000	670,200	600,000	669,300	650,000
GR	669,700	900,000	669,700	950,000	670,100	1000,000	670,100	1050,000	671,200	1087,000
GR	662,000	1096,000	661,900	1116,000	669,100	1127,000	670,700	1150,000	666,900	1300,000
GR	668,800	1400,000	669,500	1450,000	670,600	1470,000	675,000	1485,000	680,000	1500,000
X1	264,300	23,000	690,000	953,000	1800,000	2700,000	2430,000	0.	0.	0.
GR	687,000	70,000	685,000	130,000	680,000	260,000	675,000	400,000	673,500	450,000
GR	672,600	500,000	671,900	550,000	671,900	600,000	672,700	650,000	673,300	700,000
GR	672,900	750,000	673,100	800,000	673,900	850,000	675,600	870,000	664,500	905,000
GR	662,000	924,000	665,500	943,000	674,000	953,000	672,400	1000,000	675,100	1065,000
GR	680,000	1115,000	685,000	1140,000	687,000	1155,000	0.	0.	0.	0.
NC	0,070	0,090	0,060	0,100	0,300	0.	0.	0.	0.	0.
X1	276,000	19,000	425,000	470,000	1300,000	1000,000	1170,000	0.	0.	0.
GR	690,000	0.	685,000	200,000	684,300	245,000	677,400	275,000	675,200	300,000
GR	675,600	350,000	675,000	400,000	674,500	425,000	667,600	435,000	667,400	447,000

GR	666,000	460,000	675,300	470,000	675,800	500,000	674,200	550,000	674,600	600,000
GR	675,000	610,000	680,000	690,000	685,000	740,000	690,000	760,000	0	0
SB	1,000	2,040	2,600	0	181,000	8,000	1433,000	0	0	0
X1	279,000	35,000	898,000	933,000	300,000	300,000	300,000	0	0	0
X2	0	0	1,000	682,800	684,900	0	0	0	0	0
BT	10,000	0	695,500	682,800	150,000	688,500	682,800	250,000	685,700	682,800
BT	300,000	685,700	682,800	450,000	684,900	682,800	552,000	685,200	682,800	734,000
BT	687,000	682,800	800,000	688,500	682,800	850,000	689,600	682,800	1100,000	695,000
BT	682,800	0	0	0	0	0	0	0	0	0
GR	690,000	30,000	685,000	40,000	680,000	80,000	675,000	100,000	674,000	150,000
GR	673,800	200,000	673,500	250,000	672,100	300,000	672,000	350,000	672,600	400,000
GR	672,400	450,000	672,400	500,000	672,600	550,000	672,700	600,000	674,300	650,000
GR	675,200	700,000	674,600	750,000	674,900	800,000	674,800	650,000	675,000	698,000
GR	668,000	904,000	666,600	915,000	667,900	930,000	674,300	933,000	677,300	944,000
GR	674,900	1000,000	674,400	1050,000	674,600	1077,000	669,600	1079,000	669,600	1090,000
GR	670,700	1100,000	673,800	1110,000	679,000	1165,000	687,700	1183,000	689,800	1211,000
X1	289,000	18,000	861,000	903,000	955,000	1105,000	1000,000	0	0	0
GR	690,000	5,000	675,000	130,000	675,000	690,000	676,600	650,000	679,700	700,000
GR	686,400	750,000	686,400	775,000	676,400	830,000	677,800	850,000	677,200	661,000
GR	671,000	867,000	668,300	884,000	669,600	897,000	676,000	903,000	677,600	920,000
GR	680,100	925,000	688,300	950,000	700,500	1000,000	0	0	0	0
SB	0,950	2,040	2,900	750,000	200,000	12,000	3145,000	0	0	0
NC	0,100	0,100	0,050	0,100	0,300	0	0	0	0	0
QT	5,000	3300,000	6450,000	8800,000	8800,000	15500,000	0	0	0	0
X1	293,300	10,000	98,000	154,000	430,000	430,000	430,000	0	0	0
X2	0	0	1,000	699,300	702,600	0	0	0	0	0
GR	702,600	0	701,500	15,000	678,600	56,000	675,900	98,000	669,200	111,000
GR	669,300	125,000	670,300	135,000	681,600	154,000	683,900	200,000	705,000	332,000
NC	0,070	0,090	0,060	0,100	0,300	0	0	0	0	0
X1	303,700	15,000	231,000	272,000	1280,000	1180,000	1000,000	0	0	0
GR	700,000	0	693,000	10,000	681,300	100,000	677,600	150,000	679,600	200,000
GR	677,300	231,000	671,000	235,000	676,300	245,000	671,000	250,000	680,200	272,000
GR	678,300	300,000	681,100	350,000	682,200	400,000	687,000	250,000	700,000	538,000
SB	1,250	2,040	3,600	0	192,000	8,400	2930,000	0	0	0
NC	0,100	0,100	0,040	0,100	0,300	0	0	0	0	0
X1	306,600	19,000	389,000	431,000	290,000	290,000	290,000	0	0	0
X2	0	0	1,000	695,900	695,400	0	0	0	0	0
BT	10,000	0	706,000	695,900	150,000	700,500	695,900	257,000	696,500	695,900
BT	350,000	698,400	695,900	421,000	695,500	695,900	450,000	696,600	695,900	550,000
BT	700,700	695,900	600,000	702,300	695,400	650,000	704,200	695,900	700,000	706,600
BT	695,900	0	0	0	0	0	0	0	0	0
GR	700,000	0	697,600	50,000	697,000	100,000	695,100	150,000	689,300	200,000
GR	685,700	250,000	680,000	300,000	677,000	350,000	675,700	389,000	672,000	395,000
GR	671,000	408,000	672,300	424,000	677,800	431,000	677,900	450,000	679,500	500,000
GR	679,600	530,000	684,600	550,000	690,500	600,000	701,200	622,000	0	0
X1	321,800	29,000	771,000	796,000	1670,000	1520,000	1520,000	0	0	0
GR	690,000	0	684,300	50,000	680,700	74,000	677,600	100,000	676,700	200,000
GR	677,200	250,000	677,300	400,000	677,200	450,000	676,300	500,000	677,000	530,000
GR	677,200	600,000	677,900	650,000	678,100	700,000	680,200	750,000	679,800	771,000
GR	673,200	778,000	672,100	785,000	672,800	793,000	680,100	796,000	679,900	600,000
GR	679,800	858,000	672,500	865,000	673,800	870,000	679,100	874,000	679,700	900,000
GR	683,500	950,000	685,800	1000,000	690,900	1050,000	695,600	1100,000	0	0
NC	0,100	0,100	0,040	0,100	0,300	0	0	0	0	0
QT	5,000	3150,000	6200,000	8600,000	8600,000	15000,000	0	0	0	0
X1	340,000	25,000	1223,000	1255,000	1670,000	1870,000	1820,000	0	0	0
GR	695,000	40,000	690,000	370,000	684,800	600,000	684,800	650,000	680,400	700,000
GR	679,800	750,000	679,800	800,000	680,200	850,000	680,100	900,000	680,300	950,000
GR	680,000	1000,000	680,700	1050,000	680,700	1100,000	680,400	1150,000	680,900	1200,000
GR	682,500	1223,000	677,200	1225,000	674,200	1235,000	677,500	1250,000	681,000	1255,000

	0.100	0.100	0.040	0.100	0.300	0.	0.	0.	0.	0.
<i>W</i> X1	363,600	22,000	700,000	733,000	2360,000	2360,000	2360,000	0.	0.	0.
GR	700,000	40,000	695,000	370,000	689,000	500,000	684,500	550,000	683,600	600,000
GR	683,600	637,000	680,200	647,000	683,100	663,000	683,000	700,000	677,400	707,000
GR	677,600	716,000	678,600	724,000	684,700	733,000	683,700	800,000	684,200	650,000
GR	687,500	900,000	687,500	950,000	686,600	1000,000	686,400	1050,000	689,900	1087,000
GR	693,000	1100,000	700,000	1118,000	0.	0.	0.	0.	0.	0.
QT	5,000	2900,000	5750,000	8200,000	8200,000	14000,000	0.	0.	0.	0.
<i>X</i> X1	382,300	25,000	711,000	752,000	1870,000	1870,000	1870,000	0.	0.	0.
GR	688,700	0.	684,000	100,000	683,400	150,000	683,800	200,000	683,400	250,000
GR	685,200	300,000	683,300	350,000	683,900	400,000	684,300	500,000	685,100	600,000
GR	685,900	650,000	687,700	700,000	686,900	711,000	681,200	718,000	680,100	733,000
GR	680,700	745,000	686,200	752,000	685,600	800,000	685,200	900,000	684,800	950,000
GR	684,900	1000,000	683,800	1150,000	684,500	1250,000	687,500	1350,000	688,300	1400,000
<i>Y</i> X1	400,000	29,000	820,000	920,000	1770,000	1770,000	1770,000	0.	0.	0.
GR	697,700	0.	696,500	50,000	698,400	100,000	699,700	150,000	700,800	200,000
GR	700,200	250,000	693,900	300,000	687,300	327,000	686,800	350,000	687,500	400,000
GR	688,600	450,000	688,600	500,000	689,800	550,000	690,200	600,000	690,200	650,000
GR	689,900	700,000	689,400	750,000	689,100	800,000	688,600	820,000	685,400	825,000
GR	683,300	850,000	685,300	870,000	688,700	875,000	688,900	900,000	685,000	910,000
GR	690,100	920,000	689,700	950,000	696,900	1000,000	701,400	1050,000	0.	0.
EJ	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

SUMMARY PRINTOUT FOR MULTIPLE PROFILES

LONG CREEK FLOODWAY

SECTION NUMBER	CHANNEL LENGTH	MIN EL OF ROADWAY	MAX EL OF LOW CHORD	MIN EL GROUND	DISCHARGE (CFS)	CWSEL	TQ	FG	TOP ID	SIENCL	STENCE	YCH
90.00	0.	0.	0.	647.00	9600.00	668.90	2663.42	669.05	383.59	0.	0.	3.20
90.00	0.	0.	0.	647.00	9600.00	669.90	2707.13	670.07	236.36	127.84	366.20	3.32
97.50	750.00	0.	0.	648.10	9600.00	670.02	2094.19	670.31	225.51	0.	0.	4.53
97.50	750.00	0.	0.	648.10	9600.00	670.96	2096.35	671.32	129.14	118.70	247.64	4.67
112.00	1450.00	0.	0.	647.80	9600.00	670.83	8064.50	670.85	755.46	0.	0.	1.13
112.00	1450.00	0.	0.	647.80	9600.00	671.80	8100.39	671.87	533.50	157.20	690.70	1.10
123.00	1100.00	0.	0.	646.80	9600.00	670.97	9359.06	670.99	695.65	0.	0.	1.00
123.00	1100.00	0.	0.	646.80	9600.00	671.98	9425.86	672.00	484.23	146.64	632.86	1.11
133.00	1000.00	0.	0.	648.20	9600.00	671.12	4504.95	671.19	403.97	0.	0.	2.22
133.00	1000.00	0.	0.	648.20	9600.00	672.13	4512.81	672.21	278.00	103.70	381.76	2.29
147.80	1480.00	0.	0.	649.30	9600.00	671.54	7680.54	671.50	605.97	0.	0.	1.10
147.80	1480.00	0.	0.	649.30	9600.00	672.55	7721.47	672.58	471.24	160.92	632.16	1.22
151.00	320.00	0.	0.	648.60	9600.00	671.59	6977.15	671.62	630.42	0.	0.	1.33
151.00	320.00	0.	0.	648.60	9600.00	672.60	7015.55	672.64	490.93	09.60	560.52	1.37
163.80	1280.00	0.	0.	652.60	9600.00	672.01	1993.00	672.28	226.38	0.	0.	4.33
163.80	1280.00	0.	0.	652.60	9600.00	672.98	1991.00	673.31	159.87	181.05	340.92	4.49
181.70	1790.00	0.	0.	654.30	9600.00	674.75	3092.28	674.85	443.64	0.	0.	2.70
181.70	1790.00	0.	0.	654.30	9600.00	675.72	3120.21	675.85	277.73	302.10	579.90	2.79
183.90	220.00	679.30	674.10	654.60	9600.00	676.61	22533.14	676.62	1393.69	0.	0.	0.60
183.90	220.00	679.30	674.10	654.60	9600.00	677.61	26148.31	677.61	1424.96	0.	0.	0.59
194.00	1010.00	0.	0.	655.50	9600.00	676.62	13222.49	676.65	606.64	0.	0.	1.15
194.00	1010.00	0.	0.	655.50	9600.00	677.61	13302.51	677.65	442.54	104.35	506.89	1.17
217.40	2340.00	0.	0.	658.60	9600.00	676.73	18681.13	676.74	1449.97	0.	0.	0.75
217.40	2340.00	0.	0.	658.60	9600.00	677.72	18701.06	677.73	1013.52	493.52	1507.04	0.76
240.00	2260.00	0.	0.	661.90	9000.00	676.85	6357.82	676.86	1448.58	0.	0.	1.05
240.00	2260.00	0.	0.	661.90	9000.00	677.84	6595.17	677.86	1049.69	309.52	1359.21	1.07
264.30	2430.00	0.	0.	662.00	9000.00	677.70	2088.96	677.84	766.68	0.	0.	3.07
264.30	2430.00	0.	0.	662.00	9000.00	678.60	2034.71	678.77	459.32	498.25	957.57	3.31
276.00	1170.00	0.	0.	666.00	9000.00	680.43	1575.97	680.80	432.52	0.	0.	5.71
276.00	1170.00	0.	0.	666.00	9000.00	681.42	1569.85	681.89	257.76	330.17	527.94	7.11
279.00	300.00	684.90	682.80	666.60	9000.00	680.47	5553.75	680.80	1109.92	0.	0.	1.57
279.00	300.00	684.90	682.80	666.60	9000.00	681.47	6936.23	681.89	1115.99	0.	0.	1.57
289.00	1000.00	0.	0.	668.30	9000.00	681.17	2997.43	681.25	756.76	0.	0.	3.51
289.00	1000.00	0.	0.	668.30	9000.00	682.14	2932.99	682.23	567.16	255.57	403.00	3.31
293.30	430.00	702.60	699.30	669.30	8800.00	681.17	642.07	685.00	101.68	0.	0.	16.44
293.30	430.00	702.60	699.30	669.30	8800.00	682.17	780.99	685.05	115.79	0.	0.	14.80

SECTION NUMBER	CHANNEL LENGTH	MIN EL OF ROADWAY	MAX EL OF LOW CHORD	MIN EL GROUND	DISCHARGE (CFS)	CWSFL	T.D.	FG	TOP-ID	STENCL	STENCR	VCH
303.70	1040.00	0.	0.	670.30	8800.00	688.16	2788.43	688.32	410.64	0.	0.	4.34
303.70	1040.00	0.	0.	670.30	8800.00	688.33	2492.84	688.56	252.12	114.95	367.07	4.94
306.60	290.00	698.40	695.90	671.00	8800.00	688.17	2958.44	688.54	364.62	0.	0.	6.51
306.60	290.00	698.40	695.90	671.00	8800.00	689.17	3418.27	689.86	386.98	0.	0.	5.96
321.80	1520.00	0.	0.	672.10	8800.00	688.98	7859.20	688.99	1022.17	0.	0.	2.11
321.80	1520.00	0.	0.	672.10	8800.00	689.85	7753.51	689.88	704.99	126.03	871.02	2.22
340.00	1820.00	0.	0.	674.20	8600.00	689.28	4846.91	689.32	998.40	0.	0.	3.22
340.00	1820.00	0.	0.	674.20	8600.00	690.17	4774.04	690.22	622.60	688.72	1311.52	3.42
363.60	2360.00	0.	0.	677.40	8600.00	690.57	2028.40	690.88	624.13	0.	0.	7.33
363.60	2360.00	0.	0.	677.40	8600.00	691.44	1985.55	691.86	349.60	585.89	935.89	7.87
382.30	1870.00	0.	0.	680.10	8200.00	691.78	5695.96	691.79	1400.00	0.	0.	2.30
382.30	1870.00	0.	0.	680.10	8200.00	692.77	5693.11	692.79	1046.25	162.30	1208.55	2.51
400.00	1770.00	0.	0.	683.30	8200.00	692.41	1369.13	692.88	662.77	0.	0.	7.24
400.00	1770.00	0.	0.	683.30	8200.00	693.22	1273.87	693.94	410.62	509.16	920.40	8.30

SECTION NUMBER	DISCHARGE CFS	CWSFL	CWSEL DIFF EACH Q	CWSEL DIFF EACH SECTION	CWSEL-WSELK	TOP-ID	T. V. DIFF	LENGTH
90.000	9600.000	668.900	0.	0.	0.	383.594	0.	0.
90.000	9600.000	669.900	1.000	0.	0.	238.359	145.235	0.
97.500	9600.000	670.024	0.	1.124	0.	225.515	0.	750.000
97.500	9600.000	670.977	0.953	1.077	0.	124.143	95.371	750.000
112.000	9600.000	670.831	0.	0.807	0.	755.457	0.	1450.000
112.000	9600.000	671.844	1.014	0.867	0.	533.500	221.957	1450.000
123.000	9600.000	670.967	0.	0.136	0.	695.652	0.	1100.000
123.000	9600.000	671.980	1.013	0.135	0.	484.226	211.426	1100.000
133.000	9600.000	671.124	0.	0.157	0.	403.972	0.	1000.000
133.000	9600.000	672.127	1.003	0.147	0.	278.004	125.966	1000.000
147.600	9600.000	671.538	0.	0.414	0.	605.966	0.	1480.000
147.600	9600.000	672.550	1.012	0.423	0.	471.242	134.725	1480.000
151.000	9600.000	671.592	0.	0.054	0.	636.420	0.	320.000
151.000	9600.000	672.603	1.011	0.053	0.	490.928	105.492	320.000
163.800	9600.000	672.006	0.	0.414	0.	226.383	0.	1280.000
163.800	9600.000	672.978	0.972	0.375	0.	159.866	66.516	1280.000
181.700	9600.000	674.747	0.	2.741	0.	443.836	0.	1790.000
181.700	9600.000	675.724	0.977	2.746	0.	277.733	166.106	1790.000
183.900	9600.000	676.607	0.	1.859	0.	1393.800	0.	220.000
183.900	9600.000	677.607	1.000	1.882	0.	1424.959	-31.069	220.000
194.000	9600.000	676.621	0.	0.015	0.	606.636	0.	1010.000
194.000	9600.000	677.611	0.990	0.004	0.	442.539	164.099	1010.000
217.400	9600.000	676.729	0.	0.108	0.	1469.967	0.	2340.000
217.400	9600.000	677.722	0.993	0.111	0.	1013.515	456.452	2340.000
240.000	9000.000	676.849	0.	0.120	0.	1448.576	0.	2260.000

240,000	9000,000	677,839	0.990	0.117	0.	1049,690	398,887	2260,000
264,300	9000,000	677,739	0.	0.890	0.	768,679	0.	2430,000
264,300	9000,000	678,635	0.896	0.796	0.	459,320	309,358	2430,000
276,000	9000,000	680,433	0.	2.694	0.	432,516	0.	1170,000
276,000	9000,000	681,416	0.983	2.781	0.	257,762	174,755	1170,000
279,000	9000,000	680,469	0.	0.037	0.	1109,918	0.	300,000
279,000	9000,000	681,469	1.000	0.054	0.	1115,947	-5,029	300,000
289,000	9000,000	681,166	0.	0.696	0.	756,755	0.	1000,000
289,000	9000,000	682,137	0.971	0.647	0.	567,163	189,592	1000,000
293,300	8800,000	681,170	0.	0.004	0.	101,678	0.	430,000
293,300	8800,000	682,170	1.000	0.933	0.	115,787	-13,909	430,000
303,700	8800,000	688,160	0.	6.900	0.	410,636	0.	1000,000
303,700	8800,000	688,328	0.168	6.158	0.	252,121	158,517	1000,000
306,600	8800,000	688,173	0.	0.013	0.	364,620	0.	290,000
306,600	8800,000	689,173	1.000	0.845	0.	386,983	-22,363	290,000
321,800	8800,000	688,979	0.	0.806	0.	1022,170	0.	1520,000
321,800	8800,000	689,665	0.885	0.692	0.	744,905	277,175	1520,000
340,000	8600,000	689,284	0.	0.305	0.	998,400	0.	1820,000
340,000	8600,000	690,171	0.887	0.306	0.	622,707	375,693	1820,000
363,600	8600,000	690,573	0.	1.289	0.	624,129	0.	2360,000
363,600	8600,000	691,444	0.871	1.273	0.	309,600	274,529	2360,000
382,300	8200,000	691,776	0.	1.203	0.	1460,001	0.	1670,000
382,300	8200,000	692,766	0.990	1.322	0.	1026,246	353,755	1670,000
400,000	8200,000	692,413	0.	0.637	0.	662,746	0.	1770,000
400,000	8200,000	693,223	0.810	0.457	0.	410,621	251,945	1770,000

DATA FOR LAST CROSS SECTION

PROFILE	TYPE	ENC	TARGET	TOP WIDTH AREA-ACRES	TOP WIDTH AREA-DIFF
1	0.		0.	563.216	0.
2	4.000		0.284	401.575	-161.641

RUN of 21 Apr 76

 MEC2 VERSION UPDATED JAN 1976
 ERROR CORRECTIONS 01,02,03,04,05,06,07,08,09
 MODIFICATIONS 52,53,54,55,56,57,58

T1 FLOOD INSURANCE STUDY
 T2 GASTONIA, NORTH CAROLINA
 T3 LONG CREEK 10 YEAR FLOOD

CATOF

J1	ICHECK	INC	MINV	IDIR	SIRT	NETRTC	NOVINS	0	WSEL	EQ
	-0	2.	-0	-0	001325	-0	-0	-0	664.400	-0
J2	NPROF	IFLOT	PREVS	XSFCV	XSFCB	FM	ALLDC	IRW	CHNTM	TTRACE
	1.000	-0	-0	-0	-0	-0	-0	-0	-0	-0
J3	1.000	34.000	7.000	4.000	27.000	28.000	24.000	-0	-0	-0
NC	.075	.075	.100	.100	.300	-0	-0	-0	-0	-0
QI	5.000	3800.000	7400.000	9400.000	9600.000	17500.000	-0	-0	-0	-0
ET	-0	-0	-0	-0	10.400	-0	-0	-0	-0	-0
X1	90.000	14.000	170.000	223.000	-0	-0	-0	-0	-0	-0
GR	673.000	0	667.700	50.000	664.000	100.000	662.200	150.000	662.000	170.000
GR	648.300	188.000	647.000	200.000	648.000	215.000	658.800	223.000	658.700	250.000
GR	658.200	300.000	660.000	350.000	664.000	400.000	675.000	450.000	-0	-0
X1	97.500	14.000	175.000	228.000	750.000	750.000	750.000	-0	-0	-0
GR	686.000	0	680.000	50.000	685.300	100.000	659.800	120.000	657.700	150.000
GR	658.300	175.000	648.100	185.000	648.500	200.000	648.600	210.000	658.000	228.000
GR	658.500	238.000	665.100	250.000	667.700	300.000	680.000	350.000	-0	-0
X1	112.000	25.000	263.000	523.000	1450.000	1450.000	1450.000	-0	-0	-0
GR	681.000	-0	675.000	38.000	670.000	50.000	665.000	70.000	664.500	100.000
GR	662.800	150.000	660.600	200.000	659.500	250.000	658.400	300.000	657.300	350.000
GR	657.000	400.000	657.600	450.000	659.800	523.000	650.700	492.000	647.800	500.000
GR	650.900	517.000	658.200	523.000	658.600	550.000	658.800	600.000	657.600	650.000
GR	659.300	700.000	662.400	725.000	667.400	750.000	670.000	800.000	676.000	825.000
X1	123.000	22.000	225.000	273.000	1100.000	1100.000	1100.000	-0	-0	-0
GR	660.000	0	666.400	100.000	659.100	140.000	656.500	150.000	656.200	200.000
GR	656.100	225.000	647.700	235.000	646.800	250.000	648.000	260.000	657.000	273.000
GR	657.200	300.000	657.900	350.000	657.100	400.000	656.400	450.000	658.800	500.000
GR	654.500	550.000	654.700	563.000	657.700	600.000	662.900	650.000	663.700	680.000
GR	666.900	700.000	660.000	900.000	-0	-0	-0	-0	-0	-0
X1	133.000	17.000	270.000	325.000	1000.000	1000.000	1000.000	-0	-0	-0
GR	678.000	0	660.200	100.000	658.900	150.000	660.000	200.000	657.500	250.000
GR	657.400	270.000	649.600	281.000	648.200	300.000	649.800	318.000	657.800	325.000
GR	658.800	350.000	660.000	360.000	661.800	393.000	662.400	400.000	665.500	410.000
GR	672.400	450.000	677.000	470.000	-0	-0	-0	-0	-0	-0
X1	147.800	19.000	238.000	277.000	1080.000	1080.000	1080.000	-0	-0	-0
GR	691.000	0	682.300	50.000	669.100	100.000	659.400	150.000	657.300	200.000
GR	659.300	238.000	652.600	247.000	649.800	247.000	649.300	260.000	659.400	277.000
GR	658.800	350.000	659.000	400.000	658.800	450.000	657.800	500.000	658.700	550.000
GR	658.000	600.000	659.200	650.000	672.400	700.000	682.600	750.000	-0	-0

Y1	151,000	20,000	170,000	225,000	320,000	320,000	320,000	320,000	-0	-0	-0
GR	674,600	0	659,500	50,000	657,400	100,000	659,000	150,000	661,300	170,000	
GR	652,900	182,000	650,700	200,000	648,600	215,000	659,400	225,000	661,200	250,000	
GR	660,500	300,000	659,900	350,000	659,400	400,000	660,400	450,000	660,600	500,000	
GR	661,400	550,000	662,500	590,000	663,800	600,000	672,200	650,000	678,000	680,000	
Y1	163,800	20,000	197,000	245,000	1280,000	1280,000	1280,000	-0	-0	-0	
GR	700,000	0	692,500	50,000	682,700	100,000	675,000	135,000	668,800	150,000	
GR	668,300	163,000	668,100	173,000	662,000	167,000	653,000	204,000	652,700	217,000	
GR	652,600	234,000	662,700	245,000	662,700	250,000	661,400	245,000	662,600	350,000	
GR	672,700	370,000	680,000	400,000	690,700	450,000	698,000	500,000	700,000	513,000	
Y1	181,700	20,000	450,000	527,000	1790,000	1790,000	1790,000	0	0	-0	
GR	685,000	80,000	660,000	160,000	675,000	200,000	671,500	250,000	667,100	300,000	
GR	666,500	350,000	665,000	400,000	663,700	450,000	663,400	475,000	660,800	476,000	
GR	660,400	485,000	654,900	490,000	650,300	502,000	650,700	515,000	663,800	527,000	
GR	664,100	550,000	668,000	600,000	675,100	650,000	680,000	690,000	685,000	740,000	
SH	1,250	2,040	3,100	0	162,900	10,000	1250,000	0	0	0	
NC	.040	.060	.060	.100	.300	-0	-0	-0	-0	-0	
Y1	183,900	20,000	1367,000	1425,000	220,000	220,000	220,000	0	0	-0	
Y2	0	0	1,000	674,100	470,300	-0	-0	-0	-0	-0	
BT	10,000	0	684,800	674,100	200,000	682,400	674,100	300,000	670,700	674,100	
BT	400,000	679,700	674,100	430,000	470,900	474,300	650,000	470,800	674,100	750,000	
BT	681,800	674,100	800,000	683,800	674,100	950,000	691,000	674,100	1032,000	694,800	
BT	674,100	-0	-0	-0	-0	-0	-0	-0	-0	-0	
GR	680,000	50,000	675,000	170,000	670,000	570,000	669,000	400,000	665,600	650,000	
GR	665,200	700,000	660,700	750,000	660,700	800,000	664,400	850,000	664,100	900,000	
GR	664,200	950,000	664,000	1000,000	663,800	1050,000	663,500	1100,000	663,400	1150,000	
GR	663,600	1200,000	663,300	1250,000	663,300	1300,000	665,200	1350,000	661,800	1367,000	
GR	655,000	1375,000	654,600	1385,000	655,000	1387,000	658,800	1401,000	659,400	1406,000	
GR	670,000	1425,000	670,000	1450,000	673,200	1500,000	680,000	1550,000	-0	-0	
Y1	194,000	20,000	455,000	445,000	1010,000	1010,000	1010,000	0	0	-0	
GR	685,000	50,000	680,000	70,000	675,000	100,000	666,400	150,000	662,500	200,000	
GR	662,000	248,000	660,500	275,000	661,700	258,000	662,200	250,000	662,300	400,000	
GR	665,300	450,000	665,000	455,000	655,900	465,000	655,500	475,000	655,500	487,000	
GR	665,800	698,000	663,200	550,000	663,700	600,000	667,500	650,000	665,000	740,000	
Y1	217,400	25,000	938,000	920,000	2340,000	2340,000	2340,000	0	0	-0	
GR	685,000	30,000	680,000	150,000	675,000	300,000	673,200	350,000	671,100	400,000	
GR	670,000	250,000	667,800	500,000	666,500	550,000	666,500	400,000	666,200	650,000	
GR	665,700	700,000	665,900	750,000	666,300	800,000	666,000	850,000	666,800	900,000	
GR	667,200	938,000	658,800	927,000	658,500	958,000	658,800	968,000	668,300	989,000	
GR	667,500	1000,000	667,400	1050,000	666,000	1100,000	665,800	1150,000	665,300	1200,000	
GR	666,000	1250,000	664,600	1300,000	664,200	1350,000	664,800	1400,000	665,700	1450,000	
GR	666,100	1500,000	669,400	1600,000	671,200	1665,000	680,000	1755,000	685,000	1835,000	
NC	.075	.075	.100	.100	.300	-0	-0	-0	-0	-0	
BT	5,000	3000,000	6600,000	9000,000	9000,000	16000,000	-0	-0	-0	-0	
Y1	240,000	20,000	1087,000	1127,000	2260,000	2260,000	2260,000	0	0	-0	
GR	680,000	30,000	675,000	50,000	670,000	450,000	670,200	800,000	669,300	950,000	
GR	669,700	400,000	669,700	450,000	670,100	1000,000	670,100	1050,000	671,200	1087,000	
GR	662,000	1086,000	661,900	1116,000	669,100	1127,000	670,700	1150,000	668,900	1300,000	
GR	668,800	1400,000	669,500	1450,000	670,800	1470,000	675,000	1486,000	680,000	1500,000	
Y1	264,300	23,000	880,000	953,000	1800,000	2700,000	2830,000	0	0	-0	
GR	687,000	70,000	685,000	130,000	680,000	250,000	675,000	800,000	673,500	450,000	
GR	672,600	500,000	671,900	550,000	671,900	600,000	672,700	650,000	673,300	700,000	
GR	672,900	750,000	673,100	800,000	673,900	850,000	675,600	890,000	664,500	905,000	
GR	662,000	924,000	665,500	983,000	674,000	953,000	672,400	1000,000	675,100	1065,000	
GR	680,000	1115,000	685,000	1140,000	687,000	1155,000	-0	-0	-0	-0	
NC	.070	.090	.060	.100	.300	-0	-0	-0	-0	-0	
Y1	274,000	14,000	425,000	470,000	1300,000	1000,000	1170,000	0	0	-0	
GR	690,000	0	685,000	200,000	684,300	245,000	677,400	275,000	675,200	300,000	

GR	675,600	350,000	675,000	400,000	674,500	425,000	667,600	435,000	667,400	447,000
GR	666,000	460,000	675,300	470,000	675,800	500,000	674,200	550,000	674,600	600,000
GR	675,000	610,000	660,000	640,000	685,000	740,000	690,000	760,000	-0	-0
SB	1,250	2,040	2,600	0	181,000	8,000	1937,000	0	0	0
X1	279,000	35,000	898,000	933,000	300,000	300,000	300,000	0	0	-0
X2	0	0	1,000	482,800	684,900	-0	-0	-0	-0	-0
BT	10,000	0	695,500	662,800	150,000	688,500	682,800	250,000	685,700	682,800
BT	300,000	685,200	682,800	450,000	684,900	682,800	552,000	685,200	682,800	734,000
BT	687,000	682,800	800,000	688,500	682,800	850,000	689,600	682,800	1100,000	695,000
BT	682,800	-0	-0	-0	-0	-0	-0	-0	-0	-0
GR	690,000	30,000	685,000	40,000	680,000	60,000	675,000	100,000	674,000	150,000
GR	673,800	200,000	673,500	250,000	672,100	300,000	672,000	350,000	672,600	400,000
GR	672,400	450,000	672,400	500,000	672,600	550,000	672,700	400,000	674,300	650,000
GR	675,200	700,000	674,600	750,000	674,900	800,000	674,800	850,000	675,000	898,000
GR	668,000	904,000	666,600	915,000	667,900	930,000	674,300	937,000	677,300	944,000
GR	674,900	1000,000	674,400	1050,000	674,600	1077,000	669,800	1079,000	669,600	1090,000
GR	670,700	1100,000	673,800	1110,000	679,000	1165,000	687,700	1187,000	689,800	1211,000
X1	289,000	18,000	861,000	907,000	955,000	1105,000	1000,000	0	0	-0
GR	690,000	5,000	675,000	130,000	675,000	600,000	676,600	450,000	679,700	700,000
GR	666,400	750,000	686,400	775,000	676,400	830,000	677,800	850,000	677,200	861,000
GR	671,000	867,000	668,300	884,000	669,600	897,000	676,000	907,000	677,600	920,000
GR	680,100	925,000	688,300	950,000	700,500	1000,000	-0	-0	-0	-0
SB	950	2,040	2,900	750,000	200,000	12,000	3145,000	0	0	0
NC	100	100	50	100	300	-0	-0	-0	-0	-0
QT	5,000	3300,000	6050,000	8800,000	8800,000	15500,000	-0	-0	-0	-0
X1	293,300	10,000	98,000	154,000	430,000	430,000	430,000	0	0	-0
X2	-0	0	1,000	699,300	702,600	-0	-0	-0	-0	-0
GR	702,600	0	701,500	15,000	678,600	56,000	675,900	98,000	669,200	111,000
GR	669,300	125,000	670,300	135,000	681,600	154,000	683,900	200,000	705,000	332,000
NC	070	090	060	100	300	-0	-0	-0	-0	-0
X1	303,700	15,000	231,000	272,000	1280,000	1180,000	1040,000	0	0	-0
GR	700,000	0	693,000	10,000	681,300	100,000	677,600	150,000	679,800	200,000
GR	677,300	231,000	671,000	235,000	670,300	245,000	671,000	256,000	680,200	272,000
GR	678,300	300,000	681,100	350,000	682,200	400,000	687,000	450,000	700,000	538,000
SB	1,250	2,040	2,600	0	192,000	8,400	2930,000	0	0	0
NC	100	100	50	100	300	-0	-0	-0	-0	-0
X1	306,600	19,000	309,000	431,000	290,000	290,000	290,000	0	0	-0
X2	0	0	1,000	695,900	698,400	-0	-0	-0	-0	-0
BT	10,000	0	704,000	695,900	150,000	700,500	695,900	257,000	698,500	695,900
BT	350,000	698,400	695,700	423,000	699,500	605,900	699,000	498,800	695,900	550,000
BT	700,700	695,900	600,000	702,300	695,900	650,000	704,200	695,900	700,000	706,600
BT	695,900	-0	-0	-0	-0	-0	-0	-0	-0	-0
GR	700,000	0	697,600	50,000	697,000	100,000	695,100	150,000	689,300	200,000
GR	685,700	250,000	680,000	300,000	677,000	350,000	675,700	380,000	672,000	395,000
GR	671,000	408,000	672,300	424,000	677,800	431,000	677,900	450,000	679,500	500,000
GR	679,600	530,000	684,600	550,000	690,500	600,000	701,200	622,000	-0	-0
X1	321,800	29,000	771,000	796,000	1470,000	1520,000	1520,000	0	0	-0
GR	690,000	0	684,300	50,000	680,700	74,000	677,600	100,000	676,700	200,000
GR	677,200	250,000	677,300	400,000	677,200	450,000	676,300	500,000	677,000	530,000
GR	677,200	500,000	677,900	650,000	678,100	700,000	680,200	750,000	679,800	771,000
GR	673,200	778,000	672,100	785,000	672,800	797,000	680,100	796,000	679,900	800,000
GR	679,800	858,000	672,500	865,000	673,800	870,000	679,100	874,000	679,700	900,000
GR	683,500	950,000	688,800	1000,000	690,900	1050,000	695,600	1100,000	-0	-0
NC	100	100	50	100	300	-0	-0	-0	-0	-0
QT	5,000	3150,000	6200,000	8600,000	8600,000	15000,000	-0	-0	-0	-0
X1	340,000	25,000	1223,000	1255,000	1670,000	1870,000	1820,000	0	0	-0
GR	695,000	40,000	690,000	370,000	684,800	600,000	684,800	450,000	680,400	700,000
GR	679,800	750,000	679,800	800,000	680,200	850,000	680,100	900,000	680,300	950,000
GR	680,000	1000,000	680,700	1050,000	680,700	1100,000	680,400	1150,000	680,900	1200,000

