

French Broad River 50-Year Flood

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
122.500	1598.15	1732.	7.78	0.051	3381.	1.95
		6232.	17.82	0.021	61381.	9.85
		282.	7.33	0.113	294.	1.04

HV = 1.42 SF = 0.000416 TOTAL DIS = 65056.

FRENCH BROAD RIVER 50-YEAR FLOOD 11-2-76

CRITICAL DEPTH = 1596.23

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
122.930	1599.63	815.	4.49	0.130	973.	1.19
		4725.	13.51	0.024	53670.	13.48
		151.	5.37	0.130	203.	1.34

HV = 2.77 SF = 0.001472 TOTAL DIS = 64845.

DELTA HV = -1.35 HF = 2.14 HT = 1.47

FRENCH BROAD RIVER 50-YEAR FLOOD 11-2-76

CRITICAL DEPTH = 1623.90

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
122.930	1628.10	6302.	11.23	0.025	64844.	10.29
		7.	0.31	0.100	2.	0.24

HV = 1.54 SF = 0.001191 TOTAL DIS = 64845.

CRITICAL DEPTH = 1623.01

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
123.125	1629.21	81.	2.86	0.120	57.	0.70
		6451.	14.66	0.025	64693.	10.03
		0.	0.0	0.090	0.	0.0

HV = 1.55 SF = 0.000794 TOTAL DIS = 64750.

DELTA HV = 0.03 HF = 1.02 HT = 1.11

CRITICAL DEPTH = 1623.01

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
123.125	1629.21	81.	2.86	0.120	70.	0.87
		6451.	14.66	0.031	64680.	10.03
		0.	0.0	0.080	0.	0.0

HV = 1.55 SF = 0.001220 TOTAL DIS = 64750.

CRITICAL DEPTH = 1625.88

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
123.475	1631.43	76.	4.23	0.120	93.	1.22
		5402.	15.67	0.031	61025.	11.30
		1157.	5.89	0.061	3460.	2.99

HV = 1.88 SF = 0.001416 TOTAL DIS = 64579.

DELTA HV = -0.32 HF = 2.44 HT = 2.28

CRITICAL DEPTH = 1625.88

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
123.475	1631.43	76.	4.23	0.120	115.	1.52
		5402.	15.67	0.039	60639.	11.22
		1157.	5.89	0.049	3824.	3.30

HV = 1.85 SF = 0.002213 TOTAL DIS = 64579.

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
123.990	1636.37	457.	6.56	0.120	636.	1.39
		6634.	18.34	0.035	62930.	9.49
		484.	5.09	0.090	760.	1.57

HV = 1.37 SF = 0.001032 TOTAL DIS = 64327.

DELTA HV = 0.43 HF = 4.41 HT = 4.89

FRENCH BROAD RIVER 50-YEAR FLOOD 11-2-76

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
123.990	1636.37	457.	6.56	0.120	883.	1.93
		6634.	18.34	0.049	62388.	9.40
		484.	5.09	0.090	1055.	2.18

HV = 1.33 SF = 0.001989 TOTAL DIS = 64327.

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
124.500	1641.00	363.	8.66	0.120	636.	1.75
		7771.	23.28	0.052	50805.	7.82
		1174.	8.56	0.093	2636.	2.25

HV = 0.91 SF = 0.001128 TOTAL DIS = 64077.

DELTA HV = 0.43 HF = 4.20 HT = 4.62

CRITICAL DEPTH = 1632.60

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
124.500	1641.00	314.	7.22	0.120	511.	1.63
		5169.	22.40	0.039	55079.	10.65
		405.	12.69	0.070	1643.	4.06
		2014.	9.49	0.069	6840.	3.40

HV = 1.54 SF = 0.001238 TOTAL DIS = 64077.

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
124.730	1642.75	679.	9.72	0.120	1084.	1.60
		6727.	22.06	0.039	57060.	8.48
		1947.	10.86	0.069	5820.	2.99

HV = 1.01 SF = 0.000801 TOTAL DIS = 63964.

DELTA HV = 0.53 HF = 1.24 HT = 1.77

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
124.730	1642.75	679.	9.72	0.120	1138.	1.69
		6727.	22.06	0.041	56972.	8.47
		1947.	10.86	0.072	5854.	3.01

HV = 1.01 SF = 0.000893 TOTAL DIS = 63964.

FRENCH BROAD RIVER 50-YEAR FLOOD 11-2-76

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
124.925	1643.74	510.	7.62	0.100	818.	1.61
		2296.	18.60	0.038	17592.	7.66
		0.	0.0	0.0	0.	0.0
		1286.	8.65	0.062	3627.	2.82
		5184.	19.59	0.038	41126.	7.93
		170.	6.51	0.060	409.	2.41
		0.	0.0	0.0	0.	0.0
		167.	4.12	0.060	296.	1.78

HV = 0.89 SF = 0.000779 TOTAL DIS = 63869.

DELTA HV = 0.12 HF = 0.86 HT = 0.97

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
124.925	1643.74	510.	7.62	0.080	1006.	1.98
		2296.	18.60	0.039	16864.	7.35
		0.	0.0	0.0	0.	0.0
		1286.	8.65	0.040	5531.	4.30
		5184.	19.59	0.039	39425.	7.61
		170.	6.51	0.040	604.	3.56
		0.	0.0	0.0	0.	0.0
		167.	4.12	0.040	438.	2.62

HV = 0.80 SF = 0.000754 TOTAL DIS = 63869.

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.090	1644.22	515.	7.62	0.100	502.	0.97
		2608.	19.84	0.020	24044.	9.22
		2525.	8.91	0.030	9102.	3.60
		4699.	19.41	0.030	28462.	6.06
		995.	4.39	0.040	1678.	1.69

HV = 0.78 SF = 0.000287 TOTAL DIS = 63788.

DELTA HV = 0.02 HF = 0.45 HT = 0.48

BRIDGE

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.090	1644.22	0.	0.0	0.100	0.	0.0
		2030.	9.07	0.033	17628.	8.68
		0.	0.0	0.0	0.	0.0
		1204.	6.77	0.033	8603.	7.15
		1198.	11.95	0.033	12395.	10.43
		2849.	9.06	0.033	24714.	8.67
		141.	2.69	0.040	448.	3.19

HV = 1.21 SF = 0.001965 TOTAL DIS = 63788.

FRENCH BROAD RIVER 50-YEAR FLOOD 11-2-76

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.090	1644.64	387.	3.72	0.100	328.	0.85
		2880.	16.36	0.033	19847.	6.89
		0.	0.0	0.0	0.	0.0
		5960.	17.73	0.033	43325.	7.27
		155.	3.06	0.040	287.	1.86

HV = 0.79 SF = 0.000564 TOTAL DIS = 63788.

DELTA HV = 0.43 HF = 0.0 HT = 0.43

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.090	1644.64	387.	3.72	0.100	328.	0.85
		2880.	16.36	0.033	19847.	6.89
		0.	0.0	0.0	0.	0.0
		5960.	17.73	0.033	43325.	7.27
		155.	3.06	0.040	287.	1.86

HV = 0.79 SF = 0.000564 TOTAL DIS = 63788.

CRITICAL DEPTH = 1636.79

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.185	1644.79	189.	3.51	0.090	287.	1.52
		6285.	17.05	0.039	63267.	10.07
		42.	1.37	0.030	101.	2.43
		0.	0.0	0.0	0.	0.0
		39.	1.19	0.030	85.	2.22

HV = 1.56 SF = 0.001590 TOTAL DIS = 63742.

DELTA HV = -0.77 HF = 0.54 HT = 0.15

CRITICAL DEPTH = 1636.79

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.185	1644.79	189.	3.51	0.100	212.	1.12
		6285.	17.05	0.032	63375.	10.08
		42.	1.37	0.030	83.	2.00
		0.	0.0	0.0	0.	0.0
		39.	1.19	0.030	71.	1.82

HV = 1.57 SF = 0.001074 TOTAL DIS = 63742.

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.320	1646.09	973.	12.98	0.101	2719.	2.79
		7028.	20.66	0.045	60085.	8.55
		344.	3.90	0.050	871.	2.53

HV = 1.03 SF = 0.001182 TOTAL DIS = 63675.

DELTA HV = 0.49 HF = 0.80 HT = 1.30

BRIDGE

FRENCH BROAD RIVER 50-YEAR FLOOD 11-2-76

EDGE

CRITICAL DEPTH = 1647.20

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.320	1647.20	103.	4.81	0.100	488.	4.73
		3784.	8.60	0.042	62758.	16.58
		69.	2.60	0.050	430.	6.27

HV = 4.22 SF = 0.012470 TOTAL DIS = 63675.

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.320	1650.15	90.	4.48	0.100	150.	1.68
		6990.	15.27	0.042	63172.	9.04
		183.	1.96	0.050	353.	1.93

HV = 1.25 SF = 0.001722 TOTAL DIS = 63675.

DELTA HV = 2.96 HF = 0.0 HT = 2.96

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.320	1650.15	90.	4.48	0.100	150.	1.68
		6990.	15.27	0.042	63172.	9.04
		183.	1.96	0.050	353.	1.93

HV = 1.25 SF = 0.001722 TOTAL DIS = 63675.

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.590	1652.90	813.	8.22	0.100	2361.	2.90
		5944.	15.84	0.045	59367.	9.99
		447.	4.11	0.045	1815.	4.06

HV = 1.45 SF = 0.002299 TOTAL DIS = 63543.

DELTA HV = -0.20 HF = 2.87 HT = 2.76

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.590	1652.90	813.	8.22	0.090	2612.	3.21
		5944.	15.84	0.045	59123.	9.95
		447.	4.11	0.045	1808.	4.05

HV = 1.44 SF = 0.002280 TOTAL DIS = 63543.

CRITICAL DEPTH = 1648.09

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.780	1654.29	1923.	5.65	0.055	4871.	2.53
		5146.	17.34	0.026	58245.	11.32
		113.	5.24	0.045	334.	2.95

HV = 1.83 SF = 0.000874 TOTAL DIS = 63450.

DELTA HV = -0.39 HF = 1.58 HT = 1.39

FRENCH BROAD RIVER 50-YEAR FLOOD 11-2-76

CRITICAL DEPTH = 1648.09

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.780	1654.29	1923.	5.65	0.053	4685.	2.44
		5146.	17.34	0.024	58486.	11.37
		113.	5.24	0.050	279.	2.46

HV = 1.85 SF = 0.000751 TOTAL DIS = 63450.

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.960	1655.79	108.	4.95	0.080	163.	1.51
		7122.	19.22	0.035	60728.	8.53
		883.	7.71	0.058	2471.	2.80

HV = 1.09 SF = 0.000784 TOTAL DIS = 63362.

DELTA HV = 0.77 HF = 0.73 HT = 1.50

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.960	1655.79	108.	4.95	0.100	149.	1.38
		7122.	19.22	0.040	60578.	8.51
		883.	7.71	0.062	2635.	2.98

HV = 1.08 SF = 0.001018 TOTAL DIS = 63362.

CRITICAL DEPTH = 1654.47

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
126.460	1659.87	263.	7.12	0.100	690.	2.62
		5763.	14.14	0.040	59700.	10.36
		663.	5.39	0.053	2727.	4.11

HV = 1.59 SF = 0.002275 TOTAL DIS = 63117.

DELTA HV = -0.51 HF = 4.35 HT = 4.09

CRITICAL DEPTH = 1654.47

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
126.460	1659.87	263.	7.12	0.080	1122.	4.26
		5763.	14.14	0.052	59677.	10.35
		663.	5.39	0.081	2318.	3.49

HV = 1.59 SF = 0.003841 TOTAL DIS = 63117.

CRITICAL DEPTH = 1655.94

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
126.750	1664.34	221.	7.20	0.100	553.	2.50
		5930.	18.89	0.046	61256.	10.33
		278.	7.52	0.060	1192.	4.29

HV = 1.62 SF = 0.002032 TOTAL DIS = 63000.

DELTA HV = -0.03 HF = 4.50 HT = 4.48

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
122.500	1594.14	873.	4.61	0.061	1129.	1.29
		4846.	13.85	0.021	37917.	7.82
		159.	5.51	0.110	129.	0.81

HV = 0.92 SF = 0.000368 TOTAL DIS = 39175.

FRENCH BROAD RIVER 10-YEAR FLOOD 11-276

CRITICAL DEPTH = 1593.24

MILE	ELEVATION	AREA	HYD RAD	V	DISCHARGE	VELOCITY
122.930	1595.84	278.	2.57	0.130	239.	0.86
		3418.	9.77	0.024	38740.	11.33
		70.	3.65	0.130	75.	1.08

HV = 1.98 SF = 0.001603 TOTAL DIS = 39055.

DELTA HV = -1.06 HF = 2.24 HT = 1.71

FRENCH BROAD RIVER 10-YEAR FLOOD 11-276

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
122.930	1625.93	5147.	9.25	0.025	39055.	7.59
		0.	0.0	0.100	0.	0.0

HV = 0.89 SF = 0.000840 TOTAL DIS = 39055.

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
123.125	1626.63	31.	2.26	0.120	15.	0.49
		5360.	12.26	0.025	38985.	7.27
		0.	0.0	0.090	0.	0.0

HV = 0.32 SF = 0.000530 TOTAL DIS = 39000.

DELTA HV = 0.07 HF = 0.71 HT = 0.78

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
123.125	1626.63	31.	2.26	0.120	19.	0.61
		5360.	12.26	0.031	38981.	7.27
		0.	0.0	0.080	0.	0.0

HV = 0.82 SF = 0.000815 TOTAL DIS = 39000.

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
123.475	1628.31	36.	2.92	0.120	31.	0.85
		4339.	12.59	0.031	37942.	8.74
		551.	2.94	0.061	929.	1.68

HV = 1.15 SF = 0.001136 TOTAL DIS = 38902.

DELTA HV = -0.34 HF = 1.80 HT = 1.63

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
123.475	1628.31	36.	2.92	0.120	39.	1.07
		4339.	12.59	0.039	37833.	8.72
		551.	2.94	0.059	1030.	1.87

HV = 1.15 SF = 0.001788 TOTAL DIS = 38902.

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
123.990	1632.24	200.	3.25	0.120	162.	0.81
		5153.	14.25	0.035	38434.	7.46
		164.	2.81	0.090	162.	0.98

HV = 0.85 SF = 0.000894 TOTAL DIS = 38758.

DELTA HV = 0.29 HF = 3.65 HT = 3.94

FRENCH BROAD RIVER 10-YEAR FLOOD 11-276

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
123.990	1632.24	200.	3.25	0.120	227.	1.13
		5153.	14.25	0.049	38306.	7.43
		164.	2.81	0.090	225.	1.37

HV = 0.85 SF = 0.001740 TOTAL DIS = 38758.

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
124.500	1635.13	198.	5.37	0.120	229.	1.16
		6165.	18.47	0.052	37562.	6.09
		544.	5.47	0.093	824.	1.51

HV = 0.55 SF = 0.000931 TOTAL DIS = 38615.

DELTA HV = 0.29 HF = 3.60 HT = 3.88

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
124.500	1635.13	151.	4.45	0.120	172.	1.14
		4050.	17.55	0.039	35442.	8.75
		259.	8.12	0.070	756.	2.92
		1018.	5.22	0.069	2245.	2.20

HV = 1.10 SF = 0.001157 TOTAL DIS = 38615.

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
124.730	1637.59	371.	5.87	0.120	410.	1.10
		5186.	17.00	0.039	35780.	6.90
		1091.	7.03	0.069	2361.	2.16

HV = 0.67 SF = 0.000750 TOTAL DIS = 38551.

DELTA HV = 0.41 HF = 1.16 HT = 1.57

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
124.730	1637.59	371.	5.87	0.120	430.	1.16
		5186.	17.00	0.041	35744.	6.89
		1091.	7.03	0.072	2377.	2.18

HV = 0.69 SF = 0.000827 TOTAL DIS = 38551.

FRENCH BROAD RIVER 10-YEAR FLOOD 11-276

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
124.925	1638.56	207.	3.80	0.100	212.	1.03
		1778.	15.03	0.038	11996.	6.75
		0.	0.0	0.0	0.	0.0
		561.	3.91	0.062	946.	1.69
		3832.	14.48	0.038	25222.	6.58
		71.	3.42	0.060	114.	1.59
		0.	0.0	0.0	0.	0.0
		16.	0.54	0.050	8.	0.46

HV = 0.65 SF = 0.000802 TOTAL DIS = 38497.

DELTA HV = 0.03 HF = 0.84 HT = 0.87

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
124.925	1638.56	207.	3.80	0.090	268.	1.29
		1778.	15.03	0.039	11786.	6.63
		0.	0.0	0.0	0.	0.0
		561.	3.91	0.040	1479.	2.63
		3832.	14.48	0.039	24781.	6.47
		71.	3.42	0.040	172.	2.41
		0.	0.0	0.0	0.	0.0
		16.	0.54	0.040	11.	0.70

HV = 0.63 SF = 0.000816 TOTAL DIS = 38497.

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.090	1639.04	256.	5.95	0.100	226.	0.88
		1972.	15.00	0.020	16127.	8.18
		1228.	5.53	0.030	3442.	2.80
		3500.	14.46	0.030	18612.	5.32
		87.	0.61	0.040	42.	0.48

HV = 0.65 SF = 0.000327 TOTAL DIS = 38450.

DELTA HV = -0.03 HF = 0.50 HT = 0.48

BRIDGE

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.090	1639.04	0.	0.0	0.100	0.	0.0
		1443.	7.65	0.033	9783.	6.78
		0.	0.0	0.0	0.	0.0
		883.	6.02	0.033	5103.	5.78
		873.	9.79	0.033	6973.	7.99
		2307.	8.36	0.033	16591.	7.19
		0.	0.0	0.040	0.	0.0

HV = 0.78 SF = 0.001503 TOTAL DIS = 38450.

FRENCH BROAD RIVER 10-YEAR FLOOD 11-276

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.090	1639.25	2.	0.13	0.100	0.	0.09
		2062.	12.08	0.033	11922.	5.78
		0.	0.0	0.0	0.	0.0
		4329.	13.18	0.033	26528.	6.13
		0.	0.0	0.040	0.	0.0

HV = 0.56 SF = 0.000595 TOTAL DIS = 38450.

DELTA HV = 0.21 HF = 0.0 HT = 0.21

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.090	1639.25	2.	0.13	0.100	0.	0.09
		2062.	12.08	0.033	11922.	5.78
		0.	0.0	0.0	0.	0.0
		4329.	13.18	0.033	26528.	6.13
		0.	0.0	0.040	0.	0.0

HV = 0.56 SF = 0.000595 TOTAL DIS = 38450.

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.185	1639.55	0.	0.08	0.090	0.	0.12
		4473.	12.47	0.039	38424.	8.59
		0.	0.0	0.030	0.	0.0
		0.	0.0	0.0	0.	0.0
		0.	0.0	0.030	0.	0.0

HV = 1.15 SF = 0.001757 TOTAL DIS = 38424.

DELTA HV = -0.58 HF = 0.59 HT = 0.30

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.185	1639.55	0.	0.08	0.100	0.	0.09
		4473.	12.47	0.032	38424.	8.59
		0.	0.0	0.030	0.	0.0
		0.	0.0	0.0	0.	0.0
		0.	0.0	0.030	0.	0.0

HV = 1.15 SF = 0.001183 TOTAL DIS = 38424.

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.320	1640.80	644.	9.24	0.101	1408.	2.19
		5303.	15.65	0.045	36978.	6.97
		0.	0.0	0.050	0.	0.0

HV = 0.73 SF = 0.001139 TOTAL DIS = 38386.

DELTA HV = 0.42 HF = 0.83 HT = 1.24

CRIDGE

FRENCH BROAD RIVER 10-YEAR FLOOD 11-276

EDGE

CRITICAL DEPTH = 1644.80

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.320	1644.80	62.	3.64	0.100	253.	4.11
		2728.	6.20	0.042	38009.	13.93
		25.	1.72	0.050	123.	4.99

HV = 2.99 SF = 0.013616 TOTAL DIS = 38386.

***NO SOLUTION FOR 22 WITHIN 0.05 AFTER INCREMENTING ESTZ2 BY 0.01

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.320	1644.80	22.	2.21	0.100	28.	1.28
		4573.	10.04	0.042	38358.	8.39
		0.	0.0	0.050	0.	0.0

HV = 1.09 SF = 0.002596 TOTAL DIS = 38386.

DELTA HV = 1.90 HF = 0.0 HT = 1.90

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.320	1644.80	22.	2.21	0.100	28.	1.28
		4573.	10.04	0.042	38358.	8.39
		0.	0.0	0.050	0.	0.0

HV = 1.09 SF = 0.002596 TOTAL DIS = 38386.

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.590	1648.50	403.	4.44	0.100	832.	2.06
		4304.	11.47	0.045	37114.	8.62
		93.	3.52	0.045	365.	3.93

HV = 1.12 SF = 0.002636 TOTAL DIS = 38311.

DELTA HV = -0.03 HF = 3.73 HT = 3.71

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.590	1648.50	403.	4.44	0.090	922.	2.29
		4304.	11.47	0.045	37024.	8.60
		93.	3.52	0.045	364.	3.92

HV = 1.11 SF = 0.002623 TOTAL DIS = 38311.

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.780	1650.13	603.	2.25	0.055	833.	1.38
		3918.	13.20	0.026	37300.	9.52
		53.	3.60	0.045	124.	2.31

HV = 1.37 SF = 0.000889 TOTAL DIS = 38257.

DELTA HV = -0.26 HF = 1.76 HT = 1.63

FRENCH BROAD RIVER 10-YEAR FLOOD 11-276

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.780	1650.13	603.	2.25	0.053	799.	1.33
		3918.	13.20	0.024	37355.	9.53
		53.	3.60	0.050	103.	1.92

HV = 1.33 SF = 0.000760 TOTAL DIS = 38257.

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.960	1651.51	77.	4.38	0.080	99.	1.29
		5541.	14.95	0.035	37009.	6.68
		491.	6.18	0.058	1099.	2.24

HV = 0.67 SF = 0.000672 TOTAL DIS = 38207.

DELTA HV = 0.71 HF = 0.68 HT = 1.39

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.960	1651.51	77.	4.38	0.100	90.	1.18
		5541.	14.95	0.040	36944.	6.67
		491.	6.18	0.062	1173.	2.39

HV = 0.67 SF = 0.000874 TOTAL DIS = 38207.

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
126.460	1655.86	141.	5.02	0.100	317.	2.24
		4137.	10.15	0.040	37071.	8.96
		239.	2.77	0.053	680.	2.84

HV = 1.22 SF = 0.002648 TOTAL DIS = 38067.

DELTA HV = -0.55 HF = 4.65 HT = 4.38

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
126.460	1655.86	141.	5.02	0.080	513.	3.63
		4137.	10.15	0.052	36977.	8.94
		239.	2.77	0.081	577.	2.41

HV = 1.21 SF = 0.004452 TOTAL DIS = 38067.

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
126.750	1650.72	143.	6.13	0.100	276.	1.93
		4807.	15.31	0.046	37117.	7.72
		180.	6.57	0.060	607.	3.37

HV = 0.91 SF = 0.001502 TOTAL DIS = 38000.

DELTA HV = 0.30 HF = 4.56 HT = 4.86

FRENCH BROAD RIVER 10-YEAR FLOOD 11-276

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
122.930	1625.93	5147.	9.25	0.025	39055.	7.59
		0.	0.0	0.100	0.	0.0

HV = 0.89 SF = 0.000840 TOTAL DIS = 39055.

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
123.125	1626.63	31.	2.26	0.120	15.	0.49
		5360.	12.26	0.025	38985.	7.27
		0.	0.0	0.090	0.	0.0

HV = 0.82 SF = 0.000530 TOTAL DIS = 39000.

DELTA HV = 0.07 HF = 0.71 HT = 0.78

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
123.125	1626.63	31.	2.26	0.120	19.	0.61
		5360.	12.26	0.031	38981.	7.27
		0.	0.0	0.080	0.	0.0

HV = 0.82 SF = 0.000815 TOTAL DIS = 39000.

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
123.475	1628.31	36.	2.92	0.120	31.	0.85
		4339.	12.59	0.031	37942.	8.74
		551.	2.94	0.061	929.	1.68

HV = 1.15 SF = 0.001136 TOTAL DIS = 38902.

DELTA HV = -0.34 HF = 1.80 HT = 1.63

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
123.475	1628.31	36.	2.92	0.120	39.	1.07
		4339.	12.59	0.039	37833.	8.72
		551.	2.94	0.059	1030.	1.87

HV = 1.15 SF = 0.001788 TOTAL DIS = 38902.

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
123.990	1632.24	200.	3.25	0.120	162.	0.91
		5153.	14.25	0.035	38434.	7.46
		164.	2.81	0.090	162.	0.98

HV = 0.85 SF = 0.000894 TOTAL DIS = 38758.

DELTA HV = 0.29 HF = 3.65 HT = 3.94

FREVCH BROAD RIVER 10-YEAR FLOOD 11-276

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
123.990	1632.24	200.	3.25	0.120	227.	1.13
		5153.	14.25	0.049	38306.	7.43
		164.	2.81	0.090	225.	1.37

HV = 3.85 SF = 0.001740 TOTAL DIS = 38758.

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
124.500	1636.13	198.	5.37	0.120	229.	1.16
		6165.	18.47	0.052	37562.	6.09
		544.	5.47	0.093	824.	1.51

HV = 3.56 SF = 0.000931 TOTAL DIS = 38615.

DELTA HV = 0.29 HF = 3.60 HT = 3.88

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
124.500	1636.13	151.	4.45	0.120	172.	1.14
		4050.	17.55	0.039	35442.	8.75
		259.	8.12	0.070	756.	2.92
		1018.	5.22	0.069	2245.	2.20

HV = 1.10 SF = 0.001157 TOTAL DIS = 38615.

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
124.730	1637.69	371.	5.87	0.120	410.	1.10
		5186.	17.00	0.039	35780.	6.90
		1091.	7.03	0.069	2361.	2.16

HV = 3.69 SF = 0.000750 TOTAL DIS = 38551.

DELTA HV = 0.41 HF = 1.16 HT = 1.57

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
124.730	1637.69	371.	5.87	0.120	430.	1.16
		5186.	17.00	0.041	35744.	6.89
		1091.	7.03	0.072	2377.	2.18

HV = 0.69 SF = 0.000827 TOTAL DIS = 38551.

FRENCH BROAD RIVER 10-YEAR FLOOD 11-276

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
124.925	1638.56	207.	3.80	0.100	212.	1.03
		1778.	15.03	0.038	11996.	6.75
		0.	0.0	0.0	0.	0.0
		561.	3.91	0.062	946.	1.69
		3832.	14.48	0.038	25222.	6.58
		71.	3.42	0.060	114.	1.59
		0.	0.0	0.0	0.	0.0
		16.	0.54	0.050	8.	0.46

HV = 0.65 SF = 0.000802 TOTAL DIS = 38497.

DELTA HV = 0.03 HF = 0.84 HT = 0.87

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
124.925	1638.56	207.	3.80	0.090	268.	1.29
		1778.	15.03	0.039	11786.	6.63
		0.	0.0	0.0	0.	0.0
		561.	3.91	0.040	1479.	2.63
		3832.	14.48	0.039	24781.	6.47
		71.	3.42	0.040	172.	2.41
		0.	0.0	0.0	0.	0.0
		16.	0.54	0.040	11.	0.70

HV = 0.63 SF = 0.000816 TOTAL DIS = 38497.

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.090	1639.04	256.	5.95	0.100	226.	0.88
		1972.	15.00	0.020	16127.	8.18
		1228.	5.53	0.030	3442.	2.80
		3500.	14.46	0.030	18612.	5.32
		87.	0.61	0.040	42.	0.48

HV = 0.65 SF = 0.000327 TOTAL DIS = 38450.

DELTA HV = -0.03 HF = 0.50 HT = 0.48

BRIDGE

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.090	1639.04	0.	0.0	0.100	0.	0.0
		1443.	7.65	0.033	9783.	6.78
		0.	0.0	0.0	0.	0.0
		883.	6.02	0.033	5103.	5.78
		873.	9.79	0.033	6973.	7.99
		2307.	8.36	0.033	16591.	7.19
		0.	0.0	0.040	0.	0.0

HV = 0.78 SF = 0.001503 TOTAL DIS = 38450.

FRENCH BROAD RIVER 10-YEAR FLOOD 11-276

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.090	1639.25	2.	0.13	0.100	0.	0.09
		2062.	12.08	0.033	11922.	5.78
		0.	0.0	0.0	0.	0.0
		4329.	13.18	0.033	26528.	6.13
		0.	0.0	0.040	0.	0.0

HV = 0.55 SF = 0.000595 TOTAL DIS = 38450.

DELTA HV = 0.21 HF = 0.0 HT = 0.21

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.090	1639.25	2.	0.13	0.100	0.	0.09
		2062.	12.08	0.033	11922.	5.78
		0.	0.0	0.0	0.	0.0
		4329.	13.18	0.033	26528.	6.13
		0.	0.0	0.040	0.	0.0

HV = 0.55 SF = 0.000595 TOTAL DIS = 38450.

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.185	1639.55	0.	0.08	0.090	0.	0.12
		4473.	12.47	0.039	38424.	8.59
		0.	0.0	0.030	0.	0.0
		0.	0.0	0.0	0.	0.0
		0.	0.0	0.030	0.	0.0

HV = 1.15 SF = 0.001757 TOTAL DIS = 38424.

DELTA HV = -0.58 HF = 0.59 HT = 0.30

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.185	1639.55	0.	0.08	0.100	0.	0.09
		4473.	12.47	0.032	38424.	8.59
		0.	0.0	0.030	0.	0.0
		0.	0.0	0.0	0.	0.0
		0.	0.0	0.030	0.	0.0

HV = 1.15 SF = 0.001183 TOTAL DIS = 38424.

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.320	1640.80	644.	9.24	0.101	1408.	2.19
		5303.	15.65	0.045	36978.	6.97
		0.	0.0	0.050	0.	0.0

HV = 0.73 SF = 0.001139 TOTAL DIS = 38386.

DELTA HV = 0.42 HF = 0.83 HT = 1.24

RIDGE

FRENCH BROAD RIVER 10-YEAR FLOOD 11-276

EDGE

CRITICAL DEPTH = 1644.80

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.320	1644.80	62.	3.64	0.100	253.	4.11
		2728.	6.20	0.042	38009.	13.93
		25.	1.72	0.050	123.	4.99

HV = 2.99 SF = 0.013616 TOTAL DIS = 38386.

***NO SOLUTION FOR Z2 WITHIN 0.05 AFTER INCREMENTING ESTZ2 BY 0.01

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.320	1644.80	22.	2.21	0.100	28.	1.28
		4573.	10.04	0.042	38358.	8.39
		0.	0.0	0.050	0.	0.0

HV = 1.09 SF = 0.002596 TOTAL DIS = 38386.

DELTA HV = 1.90 HF = 0.0 HT = 1.90

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.320	1644.80	22.	2.21	0.100	28.	1.28
		4573.	10.04	0.042	38358.	8.39
		0.	0.0	0.050	0.	0.0

HV = 1.09 SF = 0.002596 TOTAL DIS = 38386.

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.590	1648.50	403.	4.44	0.100	832.	2.06
		4304.	11.47	0.045	37114.	8.62
		93.	3.52	0.045	365.	3.93

HV = 1.12 SF = 0.002636 TOTAL DIS = 38311.

DELTA HV = -0.03 HF = 3.73 HT = 3.71

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.590	1648.50	403.	4.44	0.090	922.	2.29
		4304.	11.47	0.045	37024.	8.60
		93.	3.52	0.045	364.	3.92

HV = 1.11 SF = 0.002623 TOTAL DIS = 38311.

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.780	1650.13	603.	2.25	0.055	833.	1.38
		3918.	13.20	0.026	37300.	9.52
		53.	3.60	0.045	124.	2.31

HV = 1.37 SF = 0.000889 TOTAL DIS = 38257.

DELTA HV = -0.26 HF = 1.76 HT = 1.63

FRENCH BROAD RIVER 10-YEAR FLOOD 11-276

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.780	1650.13	603.	2.25	0.053	799.	1.33
		3918.	13.20	0.024	37355.	9.53
		53.	3.60	0.050	103.	1.92

HV = 1.33 SF = 0.000760 TOTAL DIS = 38257.

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.960	1651.51	77.	4.38	0.080	99.	1.29
		5541.	14.95	0.035	37009.	6.68
		491.	6.18	0.058	1099.	2.24

HV = 0.67 SF = 0.000672 TOTAL DIS = 38207.

DELTA HV = 0.71 HF = 0.68 HT = 1.39

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.960	1651.51	77.	4.38	0.100	90.	1.18
		5541.	14.95	0.040	36944.	6.67
		491.	6.18	0.062	1173.	2.39

HV = 0.67 SF = 0.000874 TOTAL DIS = 38207.

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
126.460	1655.86	141.	5.02	0.100	317.	2.24
		4137.	10.15	0.040	37071.	8.96
		239.	2.77	0.053	680.	2.84

HV = 1.22 SF = 0.002648 TOTAL DIS = 38067.

DELTA HV = -0.55 HF = 4.65 HT = 4.38

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
126.460	1655.86	141.	5.02	0.080	513.	3.63
		4137.	10.15	0.052	36977.	8.94
		239.	2.77	0.081	577.	2.41

HV = 1.21 SF = 0.004452 TOTAL DIS = 38067.

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
126.750	1660.72	143.	6.13	0.100	276.	1.93
		4807.	15.31	0.046	37117.	7.72
		180.	6.57	0.060	607.	3.37

HV = 0.91 SF = 0.001502 TOTAL DIS = 38000.

DELTA HV = 0.30 HF = 4.56 HT = 4.86

100 - Year Flow Through 500 - Yr Floodway

FRENCH BROAD RIVER 100-YEAR FLOODWAY 11-2-76

CRITICAL DEPTH = 1591.78

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
122.500	1600.41	0.	0.0	0.0	0.	0.0
		1026.	11.67	0.061	2649.	2.58
		7007.	20.03	0.021	75369.	10.76
		278.	8.87	0.110	332.	1.19
		0.	0.0	0.0	0.	0.0

HV = 1.73 SF = 0.000425 TOTAL DIS = 78350.

DELTA HV = -0.05 HF = 0.0 HT = -0.03

CRITICAL DEPTH = 1591.80

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
122.500	1600.41	0.	0.0	0.0	0.	0.0
		1026.	11.67	0.061	2649.	2.58
		7007.	20.03	0.021	75369.	10.76
		278.	8.87	0.110	332.	1.19
		0.	0.0	0.0	0.	0.0

HV = 1.73 SF = 0.000425 TOTAL DIS = 78350.

CRITICAL DEPTH = 1597.54

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
122.930	1601.74	0.	0.0	0.0	0.	0.0
		691.	8.28	0.130	1173.	1.70
		5456.	15.60	0.024	76527.	14.03
		247.	7.96	0.130	403.	1.65
		0.	0.0	0.0	0.	0.0

HV = 2.99 SF = 0.001316 TOTAL DIS = 78109.

DELTA HV = -1.26 HF = 1.98 HT = 1.35

100-yr Flow Through 500 yr Fwy Fwy #2

FRENCH BROAD RIVER 100-YEAR FLOODWAY 11-2-76

CRITICAL DEPTH = 1624.85

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
122.930	1630.25	7432.	13.15	0.025	78109.	10.51
		0.	0.0	0.100	0.	0.0

HV = 1.72 SF = 0.001008 TOTAL DIS = 78109.

CRITICAL DEPTH = 1624.35

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
123.125	1631.15	0.	0.0	0.120	0.	0.0
		7288.	16.12	0.025	78000.	10.70
		0.	0.0	0.090	0.	0.0

HV = 1.73 SF = 0.000796 TOTAL DIS = 78000.

DELTA HV = -0.05 HF = 0.93 HT = 0.90

CRITICAL DEPTH = 1624.35

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
123.125	1631.15	0.	0.0	0.120	0.	0.0
		7288.	16.12	0.031	78000.	10.70
		0.	0.0	0.080	0.	0.0

HV = 1.79 SF = 0.001225 TOTAL DIS = 78000.

CRITICAL DEPTH = 1627.22

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
123.475	1633.43	0.	0.0	0.120	0.	0.0
		6054.	16.96	0.031	75549.	12.48
		539.	9.10	0.061	2255.	4.19
		0.	0.0	0.0	0.	0.0

HV = 2.35 SF = 0.001556 TOTAL DIS = 77804.

DELTA HV = -0.59 HF = 2.57 HT = 2.28

CRITICAL DEPTH = 1627.22

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
123.475	1633.43	0.	0.0	0.120	0.	0.0
		6054.	16.96	0.039	75304.	12.44
		539.	9.10	0.069	2500.	4.64
		0.	0.0	0.0	0.	0.0

HV = 2.34 SF = 0.002446 TOTAL DIS = 77804.

FRENCH BROAD RIVER 100-YEAR FLOODWAY 11-2-76

CRITICAL DEPTH = 1629.25

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
123.990	1638.85	0.	0.0	0.0	0.	0.0
		140.	6.16	0.120	186.	1.33
		7525.	20.80	0.035	77025.	10.24
		148.	6.49	0.080	304.	2.06
		0.	0.0	0.0	0.	0.0

HV = 1.62 SF = 0.001016 TOTAL DIS = 77516.

DELTA HV = 0.72 HF = 4.71 HT = 5.43

CRITICAL DEPTH = 1629.25

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
123.990	1638.85	0.	0.0	0.0	0.	0.0
		140.	6.16	0.120	260.	1.85
		7525.	20.80	0.049	76879.	10.22
		148.	6.49	0.090	377.	2.56
		0.	0.0	0.0	0.	0.0

HV = 1.61 SF = 0.001934 TOTAL DIS = 77516.

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
124.500	1643.62	454.	10.18	0.120	893.	1.97
		8636.	25.87	0.052	73063.	8.46
		1073.	13.40	0.093	3275.	3.05
		0.	0.0	0.0	0.	0.0

HV = 1.05 SF = 0.001146 TOTAL DIS = 77231.

DELTA HV = 0.55 HF = 4.21 HT = 4.76

CRITICAL DEPTH = 1634.22

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
124.500	1643.62	376.	8.97	0.120	704.	1.87
		5772.	25.01	0.039	65814.	11.40
		484.	15.15	0.070	2201.	4.55
		2123.	12.28	0.069	8511.	4.01
		0.	0.0	0.0	0.	0.0

HV = 1.76 SF = 0.001224 TOTAL DIS = 77231.

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
124.730	1645.42	0.	0.0	0.0	0.	0.0
		639.	11.48	0.120	1138.	1.78
		7536.	24.71	0.039	68793.	9.13
		1922.	15.19	0.069	7171.	3.73
		0.	0.0	0.0	0.	0.0

HV = 1.18 SF = 0.000798 TOTAL DIS = 77102.

DELTA HV = 0.58 HF = 1.23 HT = 1.81

FRENCH BROAD RIVER 100-YEAR FLOODWAY 11-2-76

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
124.730	1645.42	0.	0.0	0.0	0.	0.0
		639.	11.48	0.120	1194.	1.87
		7536.	24.71	0.041	68694.	9.12
		1922.	15.19	0.072	7214.	3.75
		0.	0.0	0.0	0.	0.0

HV = 1.17 SF = 0.000879 TOTAL DIS = 77102.

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
124.925	1645.45	673.	9.67	0.100	1232.	1.83
		2568.	20.35	0.038	20310.	7.91
		0.	0.0	0.0	0.	0.0
		1667.	11.01	0.062	5365.	3.22
		5893.	22.27	0.038	49507.	8.40
		221.	7.69	0.060	580.	2.62
		0.	0.0	0.0	0.	0.0
		0.	0.0	0.060	0.	0.0

HV = 0.97 SF = 0.000736 TOTAL DIS = 76993.

DELTA HV = 0.20 HF = 0.83 HT = 1.03

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
124.925	1646.45	673.	9.67	0.080	1506.	2.24
		2568.	20.35	0.039	19347.	7.54
		0.	0.0	0.0	0.	0.0
		1667.	11.01	0.040	8130.	4.88
		5893.	22.27	0.039	47160.	8.00
		221.	7.69	0.040	850.	3.84
		0.	0.0	0.0	0.	0.0
		0.	0.0	0.040	0.	0.0

HV = 0.87 SF = 0.000704 TOTAL DIS = 76993.

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.090	1645.90	0.	0.0	0.100	0.	0.0
		2939.	19.88	0.020	27917.	9.50
		3322.	10.54	0.030	13786.	4.15
		5323.	21.21	0.030	35198.	6.61
		0.	0.0	0.040	0.	0.0

HV = 0.87 SF = 0.000304 TOTAL DIS = 76901.

DELTA HV = 0.01 HF = 0.44 HT = 0.45

BRIDGE

FRENCH BROAD RIVER 100-YEAR FLOODWAY 11-2-76

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.090	1646.90	0.	0.0	0.100	0.	0.0
		2323.	9.66	0.033	21498.	9.26
		0.	0.0	0.0	0.	0.0
		1370.	7.07	0.033	10303.	7.52
		1321.	12.78	0.033	14736.	11.15
		3096.	9.84	0.033	29028.	9.37
		273.	4.97	0.040	1336.	4.90
		0.	0.0	0.0	0.	0.0

HV = 1.38 SF = 0.002054 TOTAL DIS = 76901.

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.090	1647.37	0.	0.0	0.100	0.	0.0
		3296.	17.61	0.033	23886.	7.25
		0.	0.0	0.0	0.	0.0
		6789.	19.70	0.033	53014.	7.81
		0.	0.0	0.040	0.	0.0

HV = 0.91 SF = 0.000565 TOTAL DIS = 76901.

DELTA HV = 0.48 HF = 0.0 HT = 0.48

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.090	1647.37	0.	0.0	0.100	0.	0.0
		3296.	17.61	0.033	23886.	7.25
		0.	0.0	0.0	0.	0.0
		6789.	19.70	0.033	53014.	7.81
		0.	0.0	0.040	0.	0.0

HV = 0.91 SF = 0.000565 TOTAL DIS = 76901.

CRITICAL DEPTH = 1638.09

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.185	1647.49	324.	5.74	0.090	647.	2.00
		7232.	19.62	0.039	75673.	10.46
		120.	3.60	0.030	527.	4.40
		0.	0.0	0.0	0.	0.0
		0.	0.0	0.030	0.	0.0

HV = 1.63 SF = 0.001425 TOTAL DIS = 76848.

DELTA HV = -0.77 HF = 0.50 HT = 0.11

FRENCH BROAD RIVER 100-YEAR FLOODWAY 11-2-76

CRITICAL DEPTH = 1638.09

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.185	1647.49	324.	5.74	0.100	479.	1.48
		7232.	19.62	0.032	75934.	10.50
		120.	3.60	0.030	434.	3.62
		0.	0.0	0.0	0.	0.0
		0.	0.0	0.030	0.	0.0

HV = 1.59 SF = 0.000966 TOTAL DIS = 76848.

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.320	1648.53	1135.	14.63	0.101	3451.	3.04
		7872.	23.14	0.045	72940.	9.27
		128.	4.97	0.050	382.	2.99

HV = 1.27 SF = 0.001194 TOTAL DIS = 76772.

DELTA HV = 0.42 HF = 0.77 HT = 1.19

BRIDGE

CRITICAL DEPTH = 1648.20

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.320	1648.53	136.	5.49	0.100	649.	4.78
		4434.	10.08	0.042	75635.	17.06
		120.	1.52	0.050	489.	4.06
		0.	0.0	0.0	0.	0.0

HV = 4.46 SF = 0.010678 TOTAL DIS = 76772.

CRITICAL DEPTH = 1644.22

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.320	1651.62	125.	5.42	0.100	245.	1.96
		7655.	16.73	0.042	75777.	9.90
		261.	3.40	0.050	750.	2.87
		0.	0.0	0.0	0.	0.0

HV = 1.50 SF = 0.001830 TOTAL DIS = 76772.

DELTA HV = 2.95 HF = 0.0 HT = 2.95

CRITICAL DEPTH = 1644.22

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.320	1651.62	125.	5.42	0.100	245.	1.96
		7655.	16.73	0.042	75777.	9.90
		261.	3.40	0.050	750.	2.87
		0.	0.0	0.0	0.	0.0

HV = 1.50 SF = 0.001830 TOTAL DIS = 76772.

FRENCH BROAD RIVER 100-YEAR FLOODWAY 11-2-76

CRITICAL DEPTH = 1647.93

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.590	1654.54	0.	0.0	0.0	0.	0.0
		384.	8.41	0.100	1187.	3.09
		6551.	17.46	0.045	73168.	11.17
		397.	6.38	0.045	2266.	5.71
		0.	0.0	0.0	0.	0.0

HV = 1.87 SF = 0.002526 TOTAL DIS = 76621.

DELTA HV = -0.35 HF = 3.10 HT = 2.92

CRITICAL DEPTH = 1647.93

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.590	1654.54	0.	0.0	0.0	0.	0.0
		384.	8.41	0.090	1317.	3.42
		6551.	17.46	0.045	73043.	11.15
		397.	6.38	0.045	2262.	5.70
		0.	0.0	0.0	0.	0.0

HV = 1.86 SF = 0.002517 TOTAL DIS = 76621.

CRITICAL DEPTH = 1649.53

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.780	1655.93	0.	0.0	0.0	0.	0.0
		379.	9.03	0.055	1448.	3.82
		5629.	18.97	0.026	74592.	13.25
		143.	5.40	0.045	475.	3.32
		0.	0.0	0.0	0.	0.0

HV = 2.65 SF = 0.001063 TOTAL DIS = 76515.

DELTA HV = -0.81 HF = 1.80 HT = 1.39

CRITICAL DEPTH = 1649.53

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.780	1655.93	0.	0.0	0.0	0.	0.0
		379.	9.03	0.053	1390.	3.67
		5629.	18.97	0.024	74730.	13.28
		143.	5.40	0.050	395.	2.76
		0.	0.0	0.0	0.	0.0

HV = 2.58 SF = 0.000909 TOTAL DIS = 76515.

FRENCH BROAD RIVER 100-YEAR FLOODWAY 11-2-76

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.960	1658.14	0.	0.0	0.0	0.	0.0
		98.	4.10	0.080	130.	1.33
		7994.	21.57	0.035	73360.	9.18
		783.	11.95	0.058	2924.	3.74
		0.	0.0	0.0	0.	0.0

HV = 1.25 SF = 0.000778 TOTAL DIS = 76414.

DELTA HV = 1.41 HF = 0.80 HT = 2.22

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.960	1658.14	0.	0.0	0.0	0.	0.0
		98.	4.10	0.100	119.	1.21
		7994.	21.57	0.040	73177.	9.15
		783.	11.95	0.062	3118.	3.98
		0.	0.0	0.0	0.	0.0

HV = 1.25 SF = 0.001012 TOTAL DIS = 76414.

CRITICAL DEPTH = 1655.91

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
126.460	1662.11	0.	0.0	0.100	0.	0.0
		6675.	15.80	0.040	73954.	11.08
		378.	9.04	0.053	2180.	5.76
		0.	0.0	0.0	0.	0.0

HV = 1.87 SF = 0.002243 TOTAL DIS = 76134.

DELTA HV = -0.61 HF = 4.30 HT = 3.99

CRITICAL DEPTH = 1655.91

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
126.460	1662.11	0.	0.0	0.080	0.	0.0
		6675.	15.80	0.052	74272.	11.13
		378.	9.04	0.081	1862.	4.92
		0.	0.0	0.0	0.	0.0

HV = 1.88 SF = 0.003823 TOTAL DIS = 76134.

CRITICAL DEPTH = 1657.53

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
126.750	1655.73	0.	0.0	0.100	0.	0.0
		6669.	19.99	0.046	74608.	11.19
		419.	4.82	0.060	1392.	3.32
		0.	0.0	0.0	0.	0.0

HV = 1.91 SF = 0.002211 TOTAL DIS = 76000.

DELTA HV = -0.03 HF = 4.62 HT = 4.61

FRENCH BROAD RIVER 500-YEAR FLOOD 11-2-76

CRITICAL DEPTH = 1595.50

MILE	ELEVATION	AREA	HYD RAD	V	DISCHARGE	VELOCITY
122.500	1604.90	3267.	13.73	0.051	9585.	2.93
		8556.	24.46	0.021	107130.	12.52
		740.	7.55	0.110	809.	1.09

HV = 2.23 SF = 0.000441 TOTAL DIS = 117524.

CRITICAL DEPTH = 1601.40

MILE	ELEVATION	AREA	HYD RAD	V	DISCHARGE	VELOCITY
122.930	1606.00	2187.	9.63	0.130	4057.	1.85
		5924.	19.80	0.024	112507.	15.25
		358.	8.26	0.130	600.	1.57

HV = 3.94 SF = 0.001286 TOTAL DIS = 117164.

DELTA HV = -1.71 HF = 1.96 HT = 1.11

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FRENCH BROAD RIVER 500-YEAR FLOOD 11-2-76

CRITICAL DEPTH = 1627.60

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
122.930	1632.20	8457.	14.86	0.025	116996.	13.83
		131.	3.34	0.100	167.	1.28

HV = 2.97 SF = 0.001483 TOTAL DIS = 117164.

CRITICAL DEPTH = 1627.49

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
123.125	1633.49	221.	5.35	0.120	280.	1.27
		8301.	18.83	0.025	116630.	14.05
		87.	2.56	0.090	90.	1.03

HV = 3.05 SF = 0.001115 TOTAL DIS = 117000.

DELTA HV = -0.09 HF = -1.34 HT = 1.29

CRITICAL DEPTH = 1627.49

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
123.125	1633.49	221.	5.35	0.120	347.	1.57
		8301.	18.83	0.031	116528.	14.04
		87.	2.56	0.080	125.	1.44

HV = 3.05 SF = 0.001712 TOTAL DIS = 117000.

CRITICAL DEPTH = 1631.20

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
123.475	1636.60	171.	6.33	0.120	299.	1.75
		7116.	20.64	0.031	105901.	14.88
		2265.	9.92	0.061	10507.	4.64

HV = 3.15 SF = 0.001702 TOTAL DIS = 116706.

DELTA HV = -0.10 HF = 3.15 HT = 3.10

CRITICAL DEPTH = 1631.20

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
123.475	1636.60	171.	6.33	0.120	372.	2.18
		7116.	20.64	0.039	104773.	14.72
		2265.	9.92	0.069	11561.	5.11

HV = 3.06 SF = 0.002636 TOTAL DIS = 116706.

FRENCH BROAD RIVER 500-YEAR FLOOD 11-2-76

CRITICAL DEPTH = 1632.96

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
123.990	1642.56	897.	10.94	0.120	1924.	2.14
		8858.	24.49	0.035	111429.	12.58
		1065.	10.28	0.090	2921.	2.74

HV = 2.35 SF = 0.001235 TOTAL DIS = 116274.

DELTA HV = 0.70 HF = 5.26 HT = 5.97

CRITICAL DEPTH = 1632.96

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
123.990	1642.56	897.	10.94	0.120	2650.	2.95
		8858.	24.49	0.049	109602.	12.37
		1065.	10.28	0.090	4022.	3.78

HV = 2.25 SF = 0.002341 TOTAL DIS = 116274.

CRITICAL DEPTH = 1633.09

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
124.500	1648.29	620.	12.56	0.120	1555.	2.51
		10177.	30.49	0.052	106445.	10.46
		2176.	14.76	0.093	7847.	3.61

HV = 1.53 SF = 0.001407 TOTAL DIS = 115846.

DELTA HV = 0.63 HF = 5.05 HT = 5.72

CRITICAL DEPTH = 1638.29

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
124.500	1648.29	629.	10.99	0.120	1429.	2.27
		6846.	29.67	0.039	92781.	13.55
		624.	19.54	0.070	3567.	5.72
		3616.	15.63	0.069	18070.	5.00

HV = 2.35 SF = 0.001378 TOTAL DIS = 115846.

CRITICAL DEPTH = 1636.81

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
124.730	1650.41	1183.	14.83	0.120	2643.	2.23
		9051.	29.67	0.039	98765.	10.91
		3318.	17.23	0.069	14245.	4.29

HV = 1.62 SF = 0.000893 TOTAL DIS = 115653.

DELTA HV = 0.74 HF = 1.38 HT = 2.12

FRENCH BROAD RIVER 500-YEAR FLOOD 11-2-76

CRITICAL DEPTH = 1636.81

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
124.730	1650.41	1183.	14.83	0.120	2773.	2.34
		9051.	29.67	0.041	98559.	10.89
		3318.	17.23	0.072	14321.	4.32

HV = 1.61 SF = 0.000983 TOTAL DIS = 115653.

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
124.925	1651.60	983.	13.15	0.100	2315.	2.35
		3082.	23.47	0.038	28098.	9.12
		0.	0.0	0.0	0.	0.0
		2386.	15.25	0.062	10003.	4.19
		7235.	27.35	0.038	73042.	10.10
		319.	9.40	0.060	1001.	3.14
		0.	0.0	0.0	0.	0.0
		397.	7.06	0.060	1030.	2.59

HV = 1.34 SF = 0.000809 TOTAL DIS = 115489.

DELTA HV = 0.25 HF = 0.92 HT = 1.19

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
124.925	1651.60	983.	13.15	0.080	2786.	2.83
		3082.	23.47	0.039	26350.	8.55
		0.	0.0	0.0	0.	0.0
		2386.	15.25	0.040	14923.	6.25
		7235.	27.35	0.039	69498.	9.47
		319.	9.40	0.040	1446.	4.53
		0.	0.0	0.0	0.	0.0
		397.	7.06	0.040	1487.	3.74

HV = 1.17 SF = 0.000749 TOTAL DIS = 115489.

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.090	1652.31	1114.	12.76	0.100	1388.	1.25
		3603.	27.41	0.020	37384.	10.37
		5181.	13.66	0.030	22520.	4.35
		6576.	27.17	0.030	45213.	6.88
		3055.	11.44	0.040	8845.	2.90

HV = 0.90 SF = 0.000236 TOTAL DIS = 115351.

DELTA HV = 0.29 HF = 0.43 HT = 0.71

BRIDGE

FRENCH BROAD RIVER 500-YEAR FLOOD 11-2-76

CRITICAL DEPTH = 1638.80

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.090	1652.31	345.	2.54	0.100	506.	1.47
		2541.	8.84	0.033	25931.	10.20
		0.	0.0	0.0	0	0.0
		1460.	7.31	0.033	13131.	8.99
		1441.	13.93	0.033	19905.	13.82
		3968.	12.61	0.033	51308.	12.93
		539.	8.94	0.040	4570.	8.48

HV = 2.22 SF = 0.002809 TOTAL DIS = 115351.

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.090	1653.39	1421.	9.59	0.100	2186.	1.54
		4211.	22.79	0.033	34968.	8.30
		0.	0.0	0.0	0.	0.0
		8612.	24.97	0.033	76012.	8.83
		569.	9.57	0.040	2185.	3.84

HV = 1.13 SF = 0.000526 TOTAL DIS = 115351.

DELTA HV = 1.09 HF = 0.0 HT = 1.09

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.090	1653.39	1421.	9.59	0.100	2186.	1.54
		4211.	22.79	0.033	34968.	8.30
		0.	0.0	0.0	0.	0.0
		8612.	24.97	0.033	76012.	8.83
		569.	9.57	0.040	2185.	3.84

HV = 1.13 SF = 0.000526 TOTAL DIS = 115351.

CRITICAL DEPTH = 1641.77

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.195	1653.39	620.	9.95	0.090	1706.	2.75
		9304.	25.24	0.039	109836.	11.83
		291.	7.43	0.030	1977.	6.79
		0.	0.0	0.0	0.	0.0
		298.	5.98	0.030	1752.	5.88

HV = 2.08 SF = 0.001296 TOTAL DIS = 115271.

DELTA HV = -0.95 HF = 0.46 HT = -0.02

FRENCH BROAD RIVER 500-YEAR FLOOD 11-2-76

CRITICAL DEPTH = 1641.79

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.185	1653.39	620.	9.95	0.100	1272.	2.05
		9304.	25.24	0.032	110910.	11.92
		291.	7.43	0.030	1638.	5.63
		0.	0.0	0.0	0.	0.0
		298.	5.98	0.030	1451.	4.87

HV = 2.14 SF = 0.000890 TOTAL DIS = 115271.

CRITICAL DEPTH = 1639.84

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.320	1654.64	1507.	18.05	0.101	5232.	3.47
		9815.	28.86	0.045	104556.	10.65
		1064.	11.01	0.050	5370.	5.04

HV = 1.53 SF = 0.001176 TOTAL DIS = 115158.

DELTA HV = 0.51 HF = 0.74 HT = 1.24

BRIDGE

CRITICAL DEPTH = 1651.60

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.320	1654.64	291.	8.18	0.100	1203.	4.13
		7057.	16.04	0.042	108868.	15.43
		704.	6.68	0.050	5085.	7.23

HV = 3.53 SF = 0.004701 TOTAL DIS = 115158.

CRITICAL DEPTH = 1647.41

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.320	1656.21	222.	7.06	0.100	511.	2.30
		9731.	21.26	0.042	111064.	11.41
		748.	7.50	0.050	3583.	4.79

HV = 1.96 SF = 0.001767 TOTAL DIS = 115158.

DELTA HV = 1.57 HF = 0.0 HT = 1.57

CRITICAL DEPTH = 1647.41

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.320	1656.21	222.	7.06	0.100	511.	2.30
		9731.	21.25	0.042	111064.	11.41
		748.	7.50	0.050	3583.	4.79

HV = 1.96 SF = 0.001767 TOTAL DIS = 115158.

FRENCH BROAD RIVER 500-YEAR FLOOD 11-2-76

CRITICAL DEPTH = 1651.60

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.590	1659.00	1430.	12.97	0.100	5624.	3.93
		8211.	21.88	0.045	101725.	12.39
		1076.	9.38	0.045	7581.	7.04

HV = 2.17 SF = 0.002300 TOTAL DIS = 114931.

DELTA HV = -0.21 HF = 2.90 HT = 2.79

CRITICAL DEPTH = 1651.60

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.590	1659.00	1430.	12.97	0.090	6215.	4.35
		8211.	21.88	0.045	101176.	12.32
		1076.	9.38	0.045	7540.	7.00

HV = 2.14 SF = 0.002275 TOTAL DIS = 114931.

CRITICAL DEPTH = 1654.16

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.780	1660.35	4014.	11.33	0.055	16359.	4.08
		6936.	23.37	0.026	96891.	13.97
		552.	4.66	0.045	1522.	2.76

HV = 2.60 SF = 0.000894 TOTAL DIS = 114772.

DELTA HV = -0.45 HF = 1.59 HT = 1.36

CRITICAL DEPTH = 1654.16

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.780	1660.35	4014.	11.33	0.053	15801.	3.94
		6936.	23.37	0.024	97696.	14.09
		552.	4.66	0.050	1275.	2.31

HV = 2.66 SF = 0.000774 TOTAL DIS = 114772.

CRITICAL DEPTH = 1650.93

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.960	1661.93	159.	5.57	0.080	293.	1.84
		9394.	25.34	0.035	107344.	11.43
		1691.	11.75	0.058	6984.	4.13

HV = 1.92 SF = 0.000973 TOTAL DIS = 114621.

DELTA HV = 0.74 HF = 0.83 HT = 1.57

FRENCH BROAD RIVER 500-YEAR FLOOD 11-2-76

CRITICAL DEPTH = 1650.93

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.960	1661.93	159.	5.67	0.100	267.	1.68
		9394.	25.34	0.040	106917.	11.38
		1691.	11.75	0.062	7437.	4.40

HV = 1.90 SF = 0.001261 TOTAL DIS = 114621.

CRITICAL DEPTH = 1659.09

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
126.460	1666.09	516.	10.16	0.100	1621.	3.14
		8291.	20.34	0.040	103462.	12.48
		1543.	10.10	0.053	9118.	5.91

HV = 2.24 SF = 0.002033 TOTAL DIS = 114201.

DELTA HV = -0.34 HF = 4.35 HT = 4.18

CRITICAL DEPTH = 1659.09

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
126.460	1655.09	516.	10.16	0.080	2642.	5.12
		8291.	20.34	0.052	103779.	12.52
		1543.	10.10	0.081	7780.	5.04

HV = 2.25 SF = 0.003457 TOTAL DIS = 114201.

CRITICAL DEPTH = 1661.19

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
126.750	1670.39	388.	9.75	0.100	1337.	3.45
		7803.	24.86	0.046	109043.	13.97
		801.	6.81	0.060	3620.	4.52

HV = 2.91 SF = 0.002579 TOTAL DIS = 114000.

DELTA HV = -0.67 HF = 4.62 HT = 4.29

CRITICAL DEPTH = 1661.19

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
126.750	1670.39	388.	9.75	0.100	1254.	3.23
		7803.	24.86	0.043	109353.	14.01
		801.	6.81	0.060	3393.	4.24

HV = 2.94 SF = 0.002266 TOTAL DIS = 114000.

FRENCH BROAD RIVER 100-YEAR FLOOD 11-2-76

CRITICAL DEPTH = 1591.80

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
122.500	1600.00	2142.	9.44	0.061	4822.	2.25
		6866.	19.63	0.021	73131.	10.65
		350.	8.17	0.110	397.	1.13

HV = 1.65 SF = 0.000428 TOTAL DIS = 78350.

CRITICAL DEPTH = 1597.56

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
122.930	1601.35	1164.	5.37	0.130	1537.	1.32
		5322.	15.22	0.024	76284.	14.33
		199.	6.15	0.130	287.	1.45

HV = 3.12 SF = 0.001421 TOTAL DIS = 78109.

DELTA HV = -1.47 HF = 2.10 HT = 1.36

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FRENCH BROAD RIVER 100-YEAR FLOOD 11-2-76

CRITICAL DEPTH = 1624.85

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
122.930	1629.25	6907.	12.26	0.025	78086.	11.31
		38.	1.24	0.100	23.	0.61

HV = 1.93 SF = 0.001280 TOTAL DIS = 78109.

CRITICAL DEPTH = 1624.22

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
123.125	1630.42	115.	3.61	0.120	100.	0.87
		6975.	15.82	0.025	77900.	11.17
		1.	0.21	0.090	0.	0.17

HV = 1.93 SF = 0.000889 TOTAL DIS = 78000.

DELTA HV = 0.05 HF = 1.12 HT = 1.17

CRITICAL DEPTH = 1624.22

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
123.125	1630.42	115.	3.61	0.120	124.	1.08
		6975.	15.82	0.031	77876.	11.17
		1.	0.21	0.080	0.	0.24

HV = 1.93 SF = 0.001366 TOTAL DIS = 78000.

CRITICAL DEPTH = 1627.73

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
123.475	1632.94	99.	4.82	0.120	136.	1.37
		5890.	17.08	0.031	72697.	12.34
		1454.	6.88	0.061	4971.	3.42

HV = 2.22 SF = 0.001507 TOTAL DIS = 77804.

DELTA HV = -0.29 HF = 2.65 HT = 2.51

CRITICAL DEPTH = 1627.73

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
123.475	1632.94	99.	4.82	0.120	170.	1.71
		5890.	17.08	0.039	72147.	12.25
		1454.	6.88	0.069	5487.	3.77

HV = 2.13 SF = 0.002349 TOTAL DIS = 77804.

FRENCH BROAD RIVER 100-YEAR FLOOD 11-2-76

CRITICAL DEPTH = 1629.16

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
123.990	1638.15	577.	7.88	0.120	933.	1.62
		7278.	20.12	0.035	75335.	10.35
		649.	6.65	0.090	1248.	1.92

HV = 1.62 SF = 0.001086 TOTAL DIS = 77516.

DELTA HV = 0.56 HF = 4.67 HT = 5.23

CRITICAL DEPTH = 1629.16

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
123.990	1638.15	577.	7.88	0.120	1292.	2.24
		7278.	20.12	0.049	74495.	10.24
		649.	6.65	0.090	1728.	2.66

HV = 1.57 SF = 0.002082 TOTAL DIS = 77516.

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
124.500	1643.08	435.	9.88	0.120	862.	1.98
		8460.	25.35	0.052	72518.	8.57
		1456.	10.39	0.093	3850.	2.64

HV = 1.03 SF = 0.001208 TOTAL DIS = 77231.

DELTA HV = 0.49 HF = 4.43 HT = 4.92

CRITICAL DEPTH = 1634.28

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
124.500	1643.08	395.	8.34	0.120	719.	1.92
		5650.	24.48	0.039	64855.	11.48
		468.	14.65	0.070	2126.	4.54
		2460.	11.30	0.069	9531.	3.87

HV = 1.76 SF = 0.001277 TOTAL DIS = 77231.

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
124.730	1644.95	818.	11.26	0.120	1463.	1.79
		7391.	24.23	0.039	67776.	9.17
		2331.	12.73	0.069	7864.	3.37

HV = 1.17 SF = 0.000826 TOTAL DIS = 77102.

DELTA HV = 0.59 HF = 1.28 HT = 1.87

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
124.730	1644.95	818.	11.26	0.120	1535.	1.88
		7391.	24.23	0.041	67658.	9.15
		2331.	12.73	0.072	7909.	3.39

HV = 1.15 SF = 0.000909 TOTAL DIS = 77102.

FRENCH BROAD RIVER 100-YEAR FLOOD 11-2-76

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
124.925	1645.93	644.	9.32	0.100	1185.	1.84
		2520.	20.05	0.038	20341.	8.07
		0.	0.0	0.0	0.	0.0
		1600.	10.50	0.052	5177.	3.24
		5769.	21.80	0.038	49244.	8.54
		212.	7.50	0.060	564.	2.65
		0.	0.0	0.0	0.	0.0
		232.	5.17	0.060	481.	2.07

HV = 1.00 SF = 0.000782 TOTAL DIS = 76993.

DELTA HV = 0.15 HF = 0.87 HT = 1.03

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
124.925	1645.98	644.	9.32	0.080	1448.	2.25
		2520.	20.05	0.039	19346.	7.68
		0.	0.0	0.0	0.	0.0
		1600.	10.60	0.040	7833.	4.90
		5769.	21.80	0.039	46837.	8.12
		212.	7.50	0.040	825.	3.89
		0.	0.0	0.0	0.	0.0
		232.	5.17	0.040	704.	3.03

HV = 0.90 SF = 0.000745 TOTAL DIS = 76993.

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.090	1646.50	669.	8.53	0.100	682.	1.02
		2889.	21.98	0.020	27690.	9.58
		3198.	10.30	0.030	12327.	3.85
		5229.	21.60	0.030	33027.	6.32
		1569.	6.03	0.040	3174.	2.02

HV = 0.82 SF = 0.000270 TOTAL DIS = 76901.

DELTA HV = 0.08 HF = 0.44 HT = 0.52

BRIDGE

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.090	1646.50	0.	0.0	0.100	0.	0.0
		2301.	9.67	0.033	21691.	9.43
		0.	0.0	0.0	0.	0.0
		1345.	7.03	0.033	10258.	7.62
		1315.	12.72	0.033	14886.	11.32
		3053.	9.71	0.033	28860.	9.45
		253.	4.64	0.040	1206.	4.77

HV = 1.42 SF = 0.002129 TOTAL DIS = 76901.

FRENCH BROAD RIVER 100-YEAR FLOOD 11-2-76

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.090	1647.03	638.	5.91	0.100	728.	1.14
		3244.	18.18	0.033	23758.	7.32
		0.	0.0	0.0	0.	0.0
		6686.	19.75	0.033	51727.	7.74
		268.	5.05	0.040	689.	2.57

HV = 0.88 SF = 0.000553 TOTAL DIS = 76901.

DELTA HV = 0.54 HF = 0.0 HT = 0.54

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.090	1647.03	638.	5.91	0.100	728.	1.14
		3244.	18.18	0.033	23758.	7.32
		0.	0.0	0.0	0.	0.0
		6686.	19.75	0.033	51727.	7.74
		268.	5.05	0.040	689.	2.57

HV = 0.88 SF = 0.000553 TOTAL DIS = 76901.

CRITICAL DEPTH = 1638.13

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.185	1647.13	306.	5.46	0.090	605.	1.98
		7107.	19.28	0.039	75345.	10.60
		110.	3.33	0.030	469.	4.27
		0.	0.0	0.0	0.	0.0
		109.	2.93	0.030	428.	3.92

HV = 1.71 SF = 0.001497 TOTAL DIS = 76848.

DELTA HV = -0.83 HF = 0.51 HT = 0.10

CRITICAL DEPTH = 1638.13

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.185	1647.13	306.	5.46	0.100	449.	1.47
		7107.	19.28	0.032	75659.	10.65
		110.	3.33	0.030	385.	3.52
		0.	0.0	0.0	0.	0.0
		109.	2.93	0.030	353.	3.23

HV = 1.73 SF = 0.001016 TOTAL DIS = 76848.

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.320	1648.42	1119.	14.47	0.101	3374.	3.02
		7789.	22.90	0.045	71574.	9.19
		540.	5.97	0.050	1824.	3.38

HV = 1.23 SF = 0.001191 TOTAL DIS = 76772.

DELTA HV = 0.50 HF = 0.79 HT = 1.29

BRIDGE

FRENCH BROAD RIVER 100-YEAR FLOOD 11-2-76

CRITICAL DEPTH = 1648.20

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.320	1648.42	128.	5.38	0.100	630.	4.92
		4322.	9.82	0.042	75640.	17.50
		104.	1.84	0.050	503.	4.82

HV = 4.69 SF = 0.011631 TOTAL DIS = 76772.

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.320	1651.62	116.	5.11	0.100	219.	1.88
		7654.	16.72	0.042	75645.	9.88
		319.	3.36	0.050	908.	2.85

HV = 1.50 SF = 0.001824 TOTAL DIS = 76772.

DELTA HV = 3.20 HF = 0.0 HT = 3.20

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.320	1651.62	116.	5.11	0.100	219.	1.88
		7654.	16.72	0.042	75645.	9.88
		319.	3.36	0.050	908.	2.85

HV = 1.50 SF = 0.001824 TOTAL DIS = 76772.

CRITICAL DEPTH = 1647.90

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.590	1654.50	969.	9.51	0.100	3137.	3.24
		6537.	17.42	0.045	70419.	10.77
		611.	5.54	0.045	3065.	5.02

HV = 1.58 SF = 0.002356 TOTAL DIS = 76621.

DELTA HV = -0.13 HF = 2.98 HT = 2.89

CRITICAL DEPTH = 1647.90

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.590	1654.50	969.	9.51	0.090	3470.	3.58
		6537.	17.42	0.045	70100.	10.72
		611.	5.54	0.045	3051.	5.00

HV = 1.66 SF = 0.002335 TOTAL DIS = 76621.

CRITICAL DEPTH = 1650.30

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.780	1655.90	2471.	7.19	0.055	7476.	3.03
		5622.	18.95	0.026	68662.	12.21
		145.	4.21	0.045	377.	2.59

HV = 2.07 SF = 0.000904 TOTAL DIS = 76515.

DELTA HV = -0.43 HF = 1.62 HT = 1.41

FRENCH BROAD RIVER 100-YEAR FLOOD 11-2-76

CRITICAL DEPTH = 1650.30

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.780	1655.90	2471.	7.19	0.053	7197.	2.91
		5622.	18.95	0.024	59003.	12.27
		145.	4.21	0.050	314.	2.16

HV = 2.12 SF = 0.000778 TOTAL DIS = 76515.

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.960	1657.48	122.	5.16	0.080	197.	1.62
		7750.	20.91	0.035	72889.	9.41
		1086.	8.29	0.058	3328.	3.06

HV = 1.32 SF = 0.000852 TOTAL DIS = 76414.

DELTA HV = 0.81 HF = 0.78 HT = 1.58

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
125.960	1657.48	122.	5.16	0.100	183.	1.48
		7750.	20.91	0.040	72687.	9.38
		1086.	8.29	0.062	3548.	3.27

HV = 1.31 SF = 0.001107 TOTAL DIS = 76414.

CRITICAL DEPTH = 1656.00

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
126.460	1651.50	326.	7.98	0.100	908.	2.79
		6466.	15.86	0.040	71167.	11.01
		886.	6.50	0.053	4060.	4.58

HV = 1.78 SF = 0.002203 TOTAL DIS = 76134.

DELTA HV = -0.47 HF = 4.37 HT = 4.13

CRITICAL DEPTH = 1656.00

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
126.460	1651.50	326.	7.98	0.080	1476.	4.53
		6466.	15.86	0.052	71203.	11.01
		886.	6.50	0.081	3455.	3.90

HV = 1.78 SF = 0.003726 TOTAL DIS = 76134.

CRITICAL DEPTH = 1657.46

MILE	ELEVATION	AREA	HYD RAD	N	DISCHARGE	VELOCITY
126.750	1666.05	265.	8.00	0.100	745.	2.81
		6462.	20.59	0.046	74077.	11.46
		366.	4.57	0.060	1179.	3.22

HV = 1.99 SF = 0.002232 TOTAL DIS = 76000.

DELTA HV = -0.21 HF = 4.56 HT = 4.45