
 HEC2 VERSION UPDATED JAN 1975
 ERROR CORRECTIONS 01,02,03,04,05,06,07,08
 MODIFICATIONS 52,53,54,55,56,57,59

T1 TRIANGLE BASIN 4 NEUSE RIVER TRID.
 T2 FLOOD STUDY AT WAKE COUNTY NC M-G JOB NO. 0856 JW APRIL 1970
 T3 10 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INO	NRIV	IDIF	STRT	NRFC	HVIR	NO	WSE	FD
	-1.	2.	3.	4.	5.007000	0.0	0.0	0.	245,500	0.0
J2	NRFC	ICRNT	NRFC	XSECV	XSECH	FN	ALLOD	ISW	CONTR	TREAS
	-1.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
J3	1.000	34.000	0.000	4.000	0.000	0.000	0.000	0.000	0.0	0.0
NC	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.0
OT	5.000	710.000	1440.000	1050.000	3200.000	1050.000	1050.000	0.0	0.0	0.0
ET	5.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X1	1000.000	13.000	187.000	206.000	1000.000	1000.000	1000.000	1000.000	1.000	0.0
GR	248.000	0.0	052.100	100.000	040.800	117.000	240.400	183.000	245.100	125.000
GR	244.000	195.000	245.000	200.000	040.500	006.000	248.000	300.000	247.700	400.000
GR	252.400	500.000	261.000	000.000	015.400	075.000	0.0	0.0	0.0	0.0
OT	5.000	600.000	1250.000	1700.000	3070.000	1700.000	0.0	0.0	0.0	0.0
X1	4000.000	11.000	303.000	323.000	0000.000	0000.000	0000.000	0000.000	0.0	0.0
GR	292.100	0.0	280.400	100.000	276.000	000.000	276.400	200.000	285.000	500.000
GR	258.800	300.000	060.200	304.000	074.000	000.000	0.0	0.0	0.0	0.0
GR	292.100	540.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X1	17500.000	21.000	1302.000	1331.000	0000.000	0000.000	0000.000	0000.000	0.0	0.0
GR	389.600	1000.000	384.000	1000.000	301.000	1100.000	378.600	1150.000	375.000	1000.000
GR	368.700	1245.000	349.000	1700.000	360.000	1300.000	367.000	1305.000	366.100	1314.000
GR	365.800	1316.000	366.100	1318.000	375.700	1318.000	370.100	1321.000	369.200	1350.000
GR	370.400	1400.000	371.100	1450.000	372.900	1500.000	374.400	1550.000	376.100	1600.000
GR	390.000	2000.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X1	13575.000	16.000	1677.000	1670.000	0075.000	0075.000	0075.000	0.0	0.0	0.0
X2	10.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GR	303.700	1000.000	300.000	1000.000	300.000	1000.000	300.000	1000.000	300.100	1300.000
GR	301.400	1400.000	372.000	1500.000	370.000	1500.000	375.100	1477.000	368.700	1437.000
GR	307.000	1638.000	368.000	1600.000	374.000	1600.000	375.400	1700.000	377.000	1800.000
GR	378.400	1900.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SR	0.000	1.500	0.500	0.0	0.000	0.000	10.000	0.0	0.0	0.0
X1	13681.000	0.0	0.0	0.0	0.000	0.000	0.000	0.0	0.0	0.0
X2	0.0	0.0	0.000	0.000	0.000	0.000	0.0	0.0	0.0	0.0
X3	10.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BT	13.000	1000.000	300.000	0.0	1100.000	100.000	0.0	1200.000	305.000	0.0
BT	1300.000	300.000	0.0	1400.000	300.000	0.0	1400.000	770.000	0.0	1500.000
BT	375.000	0.0	1637.000	374.000	368.000	1639.000	377.000	140.000	1470.000	374.000
BT	368.300	1700.000	475.400	0.0	1400.000	777.000	0.0	1000.000	379.400	0.0
X1	13681.000	0.0	1302.000	1301.000	0.000	0.000	0.000	0.0	0.0	0.0
GR	389.600	1000.000	384.000	1000.000	301.000	1100.000	378.600	1150.000	375.000	1000.000
GR	368.700	1245.000	349.000	1700.000	360.000	1300.000	367.000	1305.000	366.100	1314.000
GR	365.800	1316.000	366.100	1318.000	375.700	1318.000	370.100	1321.000	369.200	1350.000
GR	370.400	1400.000	371.100	1450.000	372.900	1500.000	374.400	1550.000	376.100	1600.000

SUMMARY PRINTOUT FOR MULTIPLE PROFILES

100 YEAR FLOODWAY

SECTION NUMBER	CHANNEL LENGTH	MIN EL OF ROADWAY	MAX EL OF LOW CHORD	MIN EL GROUND	DISCHARGE (CFS)	CWSEL	TQ	EG	TOPWID	STENCL	STENCR	VCH	
A	1000.00	1000.00	0.0	0.0	244.90	1950.00	251.39	352.89	251.49	374.62	0.0	0.0	3.85
	1000.00	1000.00	0.0	0.0	244.90	1950.00	252.40	434.88	252.49	244.76	131.61	376.37	3.49
B	4000.00	3000.00	0.0	0.0	268.80	1700.00	276.63	141.80	277.45	212.96	0.0	0.0	8.83
	4000.00	3000.00	0.0	0.0	268.80	1700.00	276.66	144.46	277.45	212.00	190.00	402.00	8.69
C	13500.00	9500.00	0.0	0.0	365.70	1700.00	371.90	198.91	372.12	250.58	0.0	0.0	5.54
	13500.00	9500.00	0.0	0.0	365.70	1700.00	372.36	195.24	372.67	132.46	1257.44	1389.90	5.98
	13575.00	75.00	0.0	0.0	367.30	1700.00	376.75	55.51	377.41	224.03	0.0	0.0	8.17
	13575.00	75.00	0.0	0.0	367.30	1700.00	377.15	52.88	378.44	83.12	1607.72	1690.84	8.82
	13631.00	56.00	0.0	0.0	367.30	1700.00	377.44	112.29	377.67	289.64	0.0	0.0	4.24
	13631.00	56.00	0.0	0.0	367.30	1700.00	377.83	112.34	378.22	123.56	1598.41	1721.97	4.35
D	13681.00	50.00	0.0	0.0	365.70	1700.00	377.70	1710.23	377.71	436.75	0.0	0.0	1.07
	13681.00	50.00	0.0	0.0	365.70	1700.00	378.27	1777.28	378.28	295.86	1215.88	1511.75	1.07

SECTION NUMBER	DISCHARGE CFS	CWSEL	CWSEL DIFF EACH Q	CWSEL DIFF EACH SECTION	CWSEL-WSELK	TOPWID	T.W. DIFF	LENGTH
1000.000	1950.000	251.394	0.0	0.0	0.0	374.618	0.0	1000.000
1000.000	1950.000	252.400	1.006	0.0	0.0	244.758	129.860	1000.000
4000.000	1700.000	276.633	0.0	25.238	0.0	212.961	0.0	3000.000
4000.000	1700.000	276.662	0.030	24.263	0.0	211.999	0.963	3000.000
13500.000	1700.000	371.896	0.0	95.263	0.0	250.582	0.0	9500.000
13500.000	1700.000	372.361	0.466	95.699	0.0	132.462	118.120	9500.000
13575.000	1700.000	376.755	0.0	4.859	0.0	224.033	0.0	75.000
13575.000	1700.000	377.149	0.394	4.788	0.0	83.119	140.915	75.000
13631.000	1700.000	377.437	0.0	0.682	0.0	289.641	0.0	56.000
13631.000	1700.000	377.831	0.394	0.682	0.0	123.560	166.081	56.000
13681.000	1700.000	377.700	0.0	0.263	0.0	436.752	0.0	50.000
13681.000	1700.000	378.267	0.567	0.436	0.0	295.862	140.890	50.000

DATA FOR LAST CROSS SECTION

PROFILE	TYPE ENC	TARGET	TOP WIDTH AREA-ACRES	TOP WIDTH AREA-DIFF
1	0.0	0.0	71.936	0.0
2	4.000	0.111	53.849	-18.087

 HEC2 VERSION UPDATED JAN 1975
 ERROR CORRECTIONS 01,02,03,04,05,06,07,08
 MODIFICATIONS 52,53,54,55,56,57,58

T1 TRIB,10 BASIN 4 NEUSE RIVER TRIB.
 T2 FLOODPLAIN STUDY AT WAKE COUNTY M-G JOB NO.6855
 T3 100 YEAR FLOODWAY

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FG
	-10.	6.	0.	0.	0.0	0.0	0.0	0.	252.400	0.0
J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	15.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CCHV= 0.100 CEHV= 0.300
 2800 NAT Q1= 352.89 WSEL= 251.39 ENC Q1= 352.89 WSEL= 251.89 RATIO= 0.0
 NAT Q1= 459. RATIOS LOB,CH,ROB= 0.1112 0.2236 0.6651 WSEL= 251.89

SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XLN	XLNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3470 ENCROACHMENT STATIONS=	131.6	376.4	TYPE=	4	TARGET=	0.231			
1000.00	7.50	252.40	0.0	251.39	252.49	0.09	0.0	0.0	249.40
1950.	231.	526.	1193.	147.	151.	631.	0.	0.	249.50
0.0	1.58	3.49	1.89	0.085	0.060	0.085	0.0	244.90	131.61
0.002011	1000.	1000.	1000.	0	0	1	0.0	244.76	376.37

3685 20 TRIALS USED WSEL,CWSEL

7185 MIN SPECIFIC ENERGY

3720 ASSUMED CRITICAL DEPTH

SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XLN	XLNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3470 ENCROACHMENT STATIONS=	190.0	402.0	TYPE=	1	TARGET=	212.000			
4000.00	7.86	276.66	276.66	0.0	277.45	0.79	11.91	0.0	274.60
1700.	330.	1091.	279.	139.	125.	106.	45.	16.	274.00
0.13	2.37	8.69	2.64	0.085	0.060	0.085	0.060	268.80	190.00
0.013849	3000.	3000.	3000.	30	9	1	0.0	212.00	402.00

2800 NAT Q1= 198.91 WSEL= 371.80 ENC Q1= 198.91 WSEL= 372.40 RATIO= 0.0

1 SUMMARY PRINTOUT FOR MULTIPLE PROFILES 1

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4 100 YEAR FLOODWAY 4

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6 SECTION CHANNEL MIN EL OF MAX EL OF MIN EL DISCHARGE CWSEL TQ EG TOPWID STENCL STENCR VCH 6

7 NUMBER LENGTH ROADWAY LOW CHORD GROUND (CFS) 7

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9 1000.00 1000.00 0.0 0.0 235.90 2700.00 240.03 255.64 240.23 361.91 0.0 0.0 5.68 9

10 1000.00 1000.00 0.0 0.0 235.90 2700.00 241.03 266.61 241.34 174.49 476.32 650.81 6.40 10

11 3500.00 2500.00 0.0 0.0 238.90 2550.00 246.90 758.91 246.94 460.33 0.0 0.0 2.43 11

12 3500.00 2500.00 0.0 0.0 238.90 2550.00 247.86 759.48 247.92 289.27 1535.18 1824.45 2.68 12

13 4700.00 1200.00 0.0 0.0 249.40 1400.00 254.56 76.92 254.99 308.44 0.0 0.0 6.13 13

14 4700.00 1200.00 0.0 0.0 249.40 1400.00 254.84 70.73 255.56 200.00 750.00 950.00 7.10 14

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16 SECTION DISCHARGE CWSEL CWSEL DIFF CWSEL DIFF CWSEL-WSELK TOPWID T.W. DIFF LENGTH 16

17 NUMBER CFS EACH Q EACH SECTION 17

18 A 1000.000 2700.000 240.033 0.0 0.0 0.0 361.906 0.0 1000.000 18

19 1000.000 2700.000 241.030 0.997 0.0 0.0 174.491 187.415 1000.000 19

20 B 3500.000 2550.000 246.899 0.0 6.866 0.0 460.334 0.0 2500.000 20

21 3500.000 2550.000 247.860 0.961 6.830 0.0 289.270 171.064 2500.000 21

22 C 4700.000 1400.000 254.562 0.0 7.663 0.0 308.444 0.0 1200.000 22

23 4700.000 1400.000 254.844 0.282 6.984 0.0 199.999 108.445 1200.000 23

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25 DATA FOR LAST CROSS SECTION 25

26 PROFILE TYPE ENC TARGET TOP WIDTH TOP WIDTH 26

27 AREA-ACRES AREA-DIFF 27

28 1 0.0 0.0 34.184 0.0 28

29 2 1.000 200.000 20.047 -14.137 29

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