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

T1 TRIBUTARY 3 BASIN 4
 T2 FLOODPLAIN STUDY AT WAKE COUNTY M-G JOB NO.6855
 T3 500 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-10.	5.	0.	0.	0.011000	0.0	0.0	0.	325.000	0.0
J2	NPROF	IPL0T	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

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
900.00	5.14	324.14	0.0	325.00	324.73	0.59	0.0	0.0	320.00
2220.	203.	1507.	510.	69.	209.	171.	0.	0.	320.00
0.0	2.96	7.22	2.98	0.085	0.060	0.085	0.0	319.00	146.89
0.011004	900.	900.	900.	0	0	5	0.0	160.88	307.77

7185 MIN SPECIFIC ENERGY

3720 ASSUMED CRITICAL DEPTH

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
5200.00	8.70	379.80	379.80	0.0	380.69	0.89	54.59	0.0	378.00
2220.	640.	1488.	93.	263.	163.	37.	45.	22.	377.50
0.17	2.43	9.10	2.51	0.085	0.060	0.085	0.060	371.10	1239.46
0.014810	4300.	4300.	4300.	20	14	1	0.0	287.98	1527.44

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

T1 TRIBUTARY 3 BASIN 4
 T2 FLOOD STUDY AT WAKE COUNTY NC. M-G JOB NO. 6855 JW APRIL 1976
 T3 100 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-10.	4.	0.	0.	0.011000	0.0	0.0	0.	324.000	0.0
J2	NPROF	IPLT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	3.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CCHV=	0.100	CEHV=	0.300							
SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV	
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT	
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA	
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	
900.00	3.83	322.83	0.0	324.00	323.25	0.42	0.0	0.0	320.00	
1125.	74.	867.	185.	32.	150.	80.	0.	0.	320.00	
0.0	2.30	5.79	2.31	0.085	0.060	0.085	0.0	319.00	157.38	
0.011009	900.	900.	900.	0	0	5	0.0	124.18	281.56	

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

5200.00	7.53	378.63	377.45	0.0	379.61	0.98	56.20	0.17	378.00	
1125.	34.	1074.	17.	33.	132.	10.	22.	14.	377.50	
0.15	1.03	8.14	1.70	0.085	0.060	0.085	0.060	371.10	1283.51	
0.015766	4300.	4300.	4300.	16	14	1	0.0	156.43	1512.86	

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

T1 TRIBUTARY 3 BASIN 4
 T2 FLOODPLAIN STUDY AT WAKE COUNTY M-G JOB NO.6855
 T3 50 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-10.	3.	0.	0.	0.011000	0.0	0.0	0.	323.000	0.0
J2	NPROF	IPLT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	2,000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XLN	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
900.00	3.36	322.36	0.0	323.00	322.72	0.36	0.0	0.0	320.00
835.	46.	675.	114.	22.	129.	56.	0.	0.	320.00
0.0	2.04	5.24	2.05	0.085	0.060	0.085	0.0	319.00	161.10
0.011034	900.	900.	900.	0	0	5	0.0	111.14	272.24
5200.00	6.85	377.95	376.63	0.0	378.78	0.83	55.92	0.14	378.00
835.	0.	833.	2.	0.	114.	2.	16.	7.	377.50
0.16	0.0	7.33	0.99	0.085	0.060	0.085	0.060	371.10	1470.06
0.015555	4300.	4300.	4300.	16	14	1	0.0	34.31	1504.37

SUMMARY PRINTOUT FOR MULTIPLE PROFILES

10 YEAR FLOOD WATER SURF

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
900.00	900.00	0.0	0.0	319.00	375.00	321.39	35.74	321.61	83.81	0.0	0.0	3.96
5200.00	4300.00	0.0	0.0	371.10	375.00	375.99	30.69	376.51	21.90	0.0	0.0	5.75

SECTION NUMBER	DISCHARGE CFS	CWSEL	CWSEL DIFF EACH Q	CWSEL DIFF EACH SECTION	CWSEL-WSELK	TOPWID	T.W. DIFF	LENGTH
900,000	375,000	321.386	0.0	0.0	0.0	83.808	0.0	900,000
5200,000	375,000	375.992	0.0	54,606	0.0	21.897	0.0	4300,000

DATA FOR LAST CROSS SECTION PROFILE

PROFILE	TYPE ENC	TARGET	TOP WIDTH AREA-ACRES	TOP WIDTH AREA-DIFF
1	0.0	0.0	5.217	0.0

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 900.00	900.00	0.0	0.0	319.00	1125.00	322.83	107.22	323.25	124.18	0.0 200	0.0	5.79
900.00	900.00	0.0	0.0	319.00	1125.00	323.83	139.20	324.25	52.18	177.95	230.13	5.31
5100.00												
5200.00	4300.00	0.0	0.0	371.10	1125.00	378.63	89.60	379.61	156.43	0.0 1420	0.0	8.14
5200.00	4300.00	0.0	0.0	371.10	1125.00	377.67	60.16	379.41	30.41	1284.00	1512.00	10.61

SECTION NUMBER	DISCHARGE CFS	CWSEL	CWSEL DIFF EACH Q	CWSEL DIFF EACH SECTION	CWSEL-WSELK	TOPWID	T.W. DIFF	LENGTH
900.000	1125.000	322.827	0.0	0.0	0.0	124.177	0.0	900.000
900.000	1125.000	323.830	1.002	0.0	0.0	124.177 52.175	72.002	900.000
5200.000	1125.000	378.629	0.0	55.802	0.0	156.430	0.0	4300.000
5200.000	1125.000	377.667	-0.962	53.837	0.0	30.413	126.018	4300.000

DATA FOR LAST CROSS SECTION

PROFILE	TYPE ENC	TARGET	TOP WIDTH AREA-ACRES	TOP WIDTH AREA-DIFF
1	0.0	0.0	13.850	0.0
2	1.000	228.000	4.076	-9.774

USE "0" ENC
 USE NO ENCROACHMENT
 SERIES OF RUNS INDICATE
 THESE ARE BEST VALUES
 (DIVIDED FLOW @ 5200)

1480
 1480
 196

1512
 1480
 32

~~B~~ B

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

T1 . TRIBUTARY 3 BASIN 4
 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	FQ
	-10.	6.	0.	0.	0.0	0.0	0.0	0.	323.830	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= 107.22 WSEL= 322.83 ENC Q1= 107.22 WSEL= 323.33 RATIO= 0.0
 NAT Q1= 142. RATIOS LOB,CH,ROB= 0.0760 0.7332 0.1908 WSEL= 323.33

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

3470 ENCHROACHMENT STATIONS=	177.9	230.1	TYPE=	4	TARGET=	0.246			
900.00	4.83	323.83	0.0	322.83	324.25	0.42	0.0	0.0	320.00
1125.	26.	1035.	64.	8.	195.	19.	0.	0.	320.00
0.0	3.36	5.31	3.38	0.085	0.060	0.085	0.0	319.00	177.95
0.006531	900.	900.	900.	0	0	1	0.0	52.18	230.12

3301 HV CHANGED MORE THAN HVINS

3470 ENCHROACHMENT STATIONS=	1284.0	1512.0	TYPE=	1	TARGET=	228.000			
5200.00	6.57	377.67	377.45	0.0	379.41	1.75	54.77	0.40	378.00
1125.	0.	1125.	0.	0.	106.	0.	16.	4.	377.50
0.11	0.0	10.61	0.73	0.085	0.060	0.085	0.060	371.10	1470.43
0.034965	4300.	4300.	4300.	17	11	1	0.0	30.41	1500.84

SUMMARY PRINTOUT FOR MULTIPLE PROFILES

100 YEAR FLOOD WATER SUR

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
900.00	900.00	0.0	0.0	319.00	1125.00	322.83	107.22	323.25	124.18	0.0	0.0	5.79
5200.00	4300.00	0.0	0.0	371.10	1125.00	378.63	89.60	379.61	156.43	0.0	0.0	8.14

SECTION NUMBER	DISCHARGE CFS	CWSEL	CWSEL DIFF EACH Q	CWSEL DIFF EACH SECTION	CWSEL-WSELK	TOPWID	T.W. DIFF	LENGTH
900.000	1125.000	322.827	0.0	0.0	0.0	124.177	0.0	900.000
5200.000	1125.000	378.629	0.0	55.802	0.0	156.430	0.0	4300.000

DATA FOR LAST CROSS SECTION PROFILE

TYPE	ENC	TARGET	TOP WIDTH AREA-ACRES	TOP WIDTH AREA-DIFF
1	0.0	0.0	13.850	0.0

3850.000	470.000	298.409	0.0	0.000	0.0	7.000	0.0	50.000
3850.000	990.000	301.887	3.477	2.093	0.0	7.000	0.0	50.000
3850.000	1360.000	305.612	3.725	5.149	0.0	262.402	-255.402	50.000
3850.000	2650.000	306.145	0.533	4.063	0.0	276.964	-269.964	50.000
3900.000	470.000	301.710	0.0	3.301	0.0	85.332	0.0	50.000
3900.000	990.000	306.506	4.797	4.620	0.0	207.576	-122.243	50.000
3900.000	1360.000	305.602	-0.905	-0.010	0.0	182.933	-97.601	50.000
3900.000	2650.000	306.119	0.517	-0.026	0.0	197.114	-111.782	50.000

DATA FOR LAST CROSS SECTION

PROFILE	TYPE ENC	TARGET	TOP WIDTH AREA-ACRES	TOP WIDTH AREA-DIFF
1	0.0	0.0	4.426	0.0
2	0.0	0.0	6.473	2.046
3	0.0	0.0	7.491	3.065
4	0.0	0.0	9.305	4.879

SUMMARY PRINTOUT FOR MULTIPLE PROFILES

100 YEAR FLOODWAY

SECTION NUMBER	CHANNEL LENGTH	MIN EL OF ROADWAY	MAX EL OF LOW CHORD	MIN EL OF GROUND	DISCHARGE (CFS)	CWSEL	TQ	EG	TOPWID	STENCL	STENCR	VCH	
	875.00	875.00	0.0	0.0	238.00	1360.00	242.81	136.32	243.09	162.64	0.0	0.0	6.55
	875.00	875.00	0.0	0.0	238.00	1360.00	243.81	143.58	244.27	59.19	215.19	274.38	7.12
<i>A</i>	1800.00	925.00	0.0	0.0	246.80	1360.00	253.33	115.02	254.05	95.19	0.0 <i>91</i>	0.0 <i>12</i>	8.08
	1800.00	925.00	0.0	0.0	246.80	1360.00	253.68	116.09	254.54	50.00	69.00	119.00	8.35
<i>B</i>	3750.00	1950.00	0.0	0.0	292.50	1360.00	298.72	76.59	299.84	90.48	0.0 <i>85</i>	0.0 <i>53</i>	11.25
	3750.00	1950.00	0.0	0.0	292.50	1360.00	299.28	61.49	300.35	50.00	88.00	138.00	6.13
	3800.00	50.00	0.0	0.0	292.40	1360.00	300.46	107.04	301.00	121.82	0.0	0.0	8.75
	3800.00	50.00	0.0	0.0	292.40	1360.00	300.95	136.97	301.36	77.51	105.37	182.88	7.15
	3850.00	50.00	0.0	0.0	292.40	1360.00	305.61	736.18	305.63	262.40	0.0	0.0	2.82
	3850.00	50.00	0.0	0.0	292.40	1360.00	306.10	758.03	306.13	157.66	64.70	222.36	1.82
<i>C</i>	3900.00	50.00	0.0	0.0	295.30	1360.00	305.60	350.78	305.68	182.93	0.0 <i>85</i>	0.0	3.43
	3900.00	50.00	0.0	0.0	295.30	1360.00	306.09	399.88	306.17	116.66	46.37 <i>39</i>	163.02 <i>78</i>	3.11

SECTION NUMBER	DISCHARGE CFS	CWSEL	CWSEL DIFF EACH Q	CWSEL DIFF EACH SECTION	CWSEL-WSELK	TOPWID	T.W. DIFF	LENGTH	
	875.000	1360.000	242.807	0.0	0.0	0.0	162.642	0.0	875.000
	875.000	1360.000	243.810	1.003 ✓	0.0	0.0	59.186	103.456	875.000
<i>A</i>	1800.000	1360.000	253.332	0.0	10.524 ✓	0.0	95.192	0.0	925.000
	1800.000	1360.000	253.679	0.347 ✓	9.869	0.0	49.999	45.193	925.000
<i>B</i>	3750.000	1360.000	298.717	0.0	45.385 ✓	0.0	90.482	0.0	1950.000
	3750.000	1360.000	299.284	0.568 ✓	45.606	0.0	49.999	40.483	1950.000
	3800.000	1360.000	300.462	0.0	1.746 ✓	0.0	121.823	0.0	50.000
	3800.000	1360.000	300.953	0.491 ✓	1.669	0.0	77.511	44.312	50.000
	3850.000	1360.000	305.612	0.0	5.149 ✓	0.0	262.402	0.0	50.000
	3850.000	1360.000	306.103	0.491 ✓	5.149	0.0	157.662	104.740	50.000
<i>C</i>	3900.000	1360.000	305.602	0.0	-0.010 ✓	0.0	182.933	0.0	50.000
	3900.000	1360.000	306.093	0.491 ✓	-0.009	0.0	116.657	66.276	50.000

DATA FOR LAST CROSS SECTION

PROFILE	TYPE ENC	TARGET	TOP WIDTH AREA-ACRES	TOP WIDTH AREA-DIFF
1	0.0	0.0	7.491	0.0
2	4.000	0.279	3.763	-3.728

2050
250

ZERO

ZERO

ZERO