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

11 TRIB. 24 BASIN 18
 12 FLOODPLAIN STUDY AT WAKE COUNTY M-G JOB NO.6855
 13 50 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	ING	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FG
	-10.	3.	0.	0.	0.006000	0.0	0.0	0.	367.000	0.0
J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLOC	IBW	CHNIM	ITRACE
	2.000	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	CRWS	WSELK	EG	HV	HL	LOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLORL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

2700.00	7.41	317.41	0.0	367.00	317.52	0.10	0.0	0.0	315.00
830.	17.	215.	597.	12.	49.	390.	0.	0.	315.00
0.0	1.50	4.38	1.53	0.085	0.060	0.085	0.0	310.00	110.64
0.005956	2700.	2700.	2700.	0	0	12	0.0	343.10	455.45

5200.00	8.22	328.22	0.0	0.0	328.29	0.07	10.77	0.00	325.00
830.	135.	205.	490.	98.	57.	357.	28.	18.	325.00
0.36	1.37	3.59	1.37	0.085	0.060	0.085	0.060	320.00	103.85
0.003260	2500.	2500.	2500.	7	0	1	0.0	293.24	397.09

7185 MIN SPECIFIC ENERGY

3720 ASSUMED CRITICAL DEPTH

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

9200.00	7.16	357.16	357.16	0.0	357.79	0.63	28.09	0.0	355.00
830.	95.	403.	332.	33.	47.	115.	60.	38.	355.00
0.56	2.90	8.64	2.90	0.085	0.060	0.085	0.060	350.00	139.72
0.024794	4000.	4000.	4000.	18	13	1	0.0	146.25	285.98

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T1 IRIB. 24 BASIN 18
 T2 FLOODPLAIN STUDY AT WAKE COUNTY M-G JOB NO.6855
 T3 100 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-10.	4.	0.	0.	0.006000	0.0	0.0	0.	368.000	0.0
J2	NPROP	IPLUT	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	CRWS	WSELK	EG	HV	HL	ULOSS	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	IUC	ICONT	CORAR	TOPWIU	ENDST
2700.00	7.74	317.74	0.0	368.00	317.84	0.10	0.0	0.0	315.00
1100.	24.	240.	835.	15.	52.	501.	0.	0.	315.00
0.0	1.63	4.59	1.67	0.085	0.060	0.085	0.0	310.00	109.06
0.005985	2700.	2700.	2700.	0	0	12	0.0	387.49	496.55
5200.00	8.63	328.63	0.0	0.0	328.71	0.07	10.86	0.00	325.00
1100.	187.	232.	681.	125.	61.	456.	35.	21.	325.00
0.35	1.49	3.78	1.49	0.085	0.060	0.085	0.060	320.00	95.96
0.003297	2500.	2500.	2500.	6	0	1	0.0	329.75	425.72

7185 MIN SPECIFIC ENERGY

3720 ASSUMED CRITICAL DEPTH

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	ULOSS	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	IUC	ICONT	CORAR	TOPWIU	ENDST
9200.00	7.50	357.50	357.50	0.0	358.15	0.65	28.60	0.0	355.00
1100.	142.	461.	497.	44.	50.	153.	76.	43.	355.00
0.54	3.25	9.21	3.25	0.085	0.060	0.085	0.060	350.00	135.01
0.025735	4000.	4000.	4000.	19	9	1	0.0	167.44	302.45

1	*****											1			
2	HEC2 VERSION UPDATED JAN 1975											2			
3	ERROR CORRECTIONS 01,02,03,04,05,06,07,08											3			
4	MODIFICATIONS 52,53,54,55,56,57,58											4			
5	*****											5			
6												6			
7												7			
8												8			
9												9			
10	11	IRID. 24 BASIN 18										13			
11	12	FLOODPLAIN STUDY AT WAKE COUNTY M-G JOB NO.6855										14			
12	13	500 YEAR FLOOD WATER SURFACE PROFILE										15			
13												16			
14	J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FR	17			
15												18			
16		-10.	5.	0.	0.	0.006000	0.0	0.0	0.	369.000	0.0	19			
17												20			
18	J2	NPROF	IPLT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE	21			
19												22			
20		4.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23			
21												24			
22												25			
23	CCHV=	0.100	CEHV=	0.300											26
24	SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK	ELEV	27			
25	Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT	RIGHT	28			
26												29			
27												30			
28												31			
29												32			
30												33			
31												34			
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IRIB. 24 BASIN 18
 FLOODPLAIN STUDY AT WAKE COUNTY M-G JOB NO. 6855
 500 YEAR FLOOD WATER SURFACE PROFILE

J1 ICHECK INQ MINV IDIR SIRT METRIC HVINS B WSEL PD

J2 NPROF IPLOT PRIVS XSECV XSECH FN ALLDC IBM CHNIM ITRACE

CCHV= 0.100 CEHV= 0.300
 SECNO DEPTH CWSFL CRIMS WSELK EG HV HL OLOSS BANK LEV

Q QLOB GCH VROB ALOB ACH AROB VOL TWA LEFT/RIGHT
 TIME VLOB VCH VROB XNL XNCH XNR XMR WTN ELWIN SSTA
 SLOPE XLOBL XLCH XLOBR ITRIAL IDC ICNT ICORAR TOPWID ENUST

2700.00	8.67	318.67	0.0	369.00	318.79	0.11	0.0	0.0	0.0	315.00
2200.0	54.	315.	1831.	27.	62.	904.	0.	0.	0.	315.00
0.0	1.99	5.11	2.03	0.085	0.060	0.085	0.0	0.0	0.0	105.31
0.005968	2700.	2700.	2700.	0	0	11	0.0	0.0	0.0	516.89
										622.20

5200.00	9.82	329.82	0.0	0.0	329.91	0.09	11.12	0.00	0.00	325.00
2200.0	406.	310.	1475.	221.	73.	801.	60.	27.	0.	325.00
0.31	1.84	4.35	1.84	0.085	0.060	0.085	0.060	0.000	0.000	79.46
0.003441	2500.	2500.	2500.	5	0	1	0.0	433.98	0.000	507.44

5200.00	8.55	358.55	358.31	0.0	353.18	0.63	29.11	0.16	0.16	355.00
2200.0	351.	616.	1232.	88.	60.	308.	131.	58.	0.	355.00
0.51	4.00	10.20	4.00	0.085	0.060	0.085	0.060	350.00	0.000	120.57
0.024431	4000.	4000.	4000.	23	10	1	0.0	233.33	0.000	353.70

10500.00	7.99	368.39	0.0	0.0	368.54	0.14	9.31	0.05	0.05	365.30
2200.0	394.	680.	1126.	194.	154.	518.	151.	65.	0.	365.80
0.64	2.04	4.41	2.17	0.085	0.060	0.085	0.060	360.40	0.000	1130.77
0.003365	1300.	1300.	1300.	5	0	1	0.0	272.06	0.000	1402.83

3301 HV CHANGED MORE THAN HVINS

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T1 TRIB. 24 BASIN 18
 T2 FLOODPLAIN STUDY AT WAKE COUNTY M-G JOB NO. 6855
 T3 100 YEAR FLOODWAY

J1	ICHECK	ING	NINV	IDIR	STRT	METRIC	HVINS	G	WSEL	FG
	-10.	6.	0.	0.	0.0	0.0	0.0	0.	0.0	0.0
J2	NPROF	IPLT	PRFS	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= 49.20 WSEL= 316.64 ENC Q1= 49.20 WSEL= 317.64 RATIO= 0.0
 NAT Q1= 131. RATIOS LOB,CH,ROB= 0.0219 0.2299 0.7482 WSEL= 317.64
 2096 WSEL NOT GIVEN,AVG OF MAX,MIN USED
 3280 CROSS SECTION 2700.00 EXTENDED 49815.00 FEET

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	ENUST
5470 ENCHROACHMENT STATIONS=	120.0	199.1	TYPE=	4	TARGET=	0.624			
2700.00 49845.00 50155.00	0.0	316.64 50155.00	0.00	0.0	0.0	0.0	315.00		
1100. 0. 154. 946. 13. 498425. 3445781. 0. 0. 315.00									
0.0 0.00 0.00 0.00 0.085 0.060 0.085 0.0 310.00 120.00									
0.000000 2700. 2700. 2700. 0 0 1 0.0 79.14 199.14									

2800 NAT Q1= 67.73 WSEL= 327.25 ENC Q1= 67.73 WSEL= 328.25 RATIO= 0.0
 NAT Q1= 148. RATIOS LOB,CH,ROB= 0.1630 0.2446 0.5924 WSEL= 328.25
 3280 CROSS SECTION 5200.00 EXTENDED 49805.00 FEET

5470 ENCHROACHMENT STATIONS=	165.0	255.4	TYPE=	4	TARGET=	0.543			
5200.00 49835.00 50155.00	0.0	327.25 50155.00	0.00	0.00	0.00	0.00	325.00		
1100. 0. 135. 965. 13. 498325. 4004925. 242409. 5. 325.00									
2838.74 0.00 0.00 0.00 0.085 0.060 0.085 0.060 320.00 165.00									
0.000000 2500. 2500. 2500. 20 0 1 0.0 90.37 255.57									

2800 NAT Q1= 24.58 WSEL= 356.27 ENC Q1= 26.60 WSEL= 357.27 RATIO= -0.0820
 NAT Q1= 58. RATIOS LOB,CH,ROB= 0.1194 0.4621 0.4185 WSEL= 357.27
 3280 CROSS SECTION 9200.00 EXTENDED 49775.00 FEET

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B-24

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	TW	EG	TOPWID	STENCL	STENCR	VCH
2700.00	2700.00	0.0	0.0	310.00	380.00	316.64	49.20	316.75	235.85	0.0	0.0	3.91
2700.00	2700.00	0.0	0.0	310.00	830.00	317.41	107.55	317.52	343.10	0.0	0.0	4.38
2700.00	2700.00	0.0	0.0	310.00	1100.00	317.74	142.19	317.84	387.49	0.0	0.0	4.59
2700.00	2700.00	0.0	0.0	310.00	2200.00	318.67	284.77	318.79	516.89	0.0	0.0	5.11
2700.00	2700.00	0.0	0.0	310.00	1100.00	50155.00*****		50155.00	79.14	120.00	199.14	0.00
5200.00	2500.00	0.0	0.0	320.00	380.00	327.25	67.73	327.32	206.85	0.0	0.0	3.11
5200.00	2500.00	0.0	0.0	320.00	830.00	328.22	145.37	328.29	293.24	0.0	0.0	3.59
5200.00	2500.00	0.0	0.0	320.00	1100.00	328.63	191.58	328.71	329.75	0.0	0.0	3.78
5200.00	2500.00	0.0	0.0	320.00	2200.00	329.82	375.02	329.91	433.98	0.0	0.0	4.35
5200.00	2500.00	0.0	0.0	320.00	1100.00	50155.00*****		50155.00	90.37	165.00	255.37	0.00
9200.00	4000.00	0.0	0.0	350.00	380.00	356.27	24.58	356.91	90.21	0.0	0.0	7.37
9200.00	4000.00	0.0	0.0	350.00	830.00	357.16	52.71	357.79	146.26	0.0	0.0	8.64
9200.00	4000.00	0.0	0.0	350.00	1100.00	357.50	68.61	358.15	167.44	0.0	0.0	9.21
9200.00	4000.00	0.0	0.0	350.00	2200.00	358.55	140.75	359.18	233.33	0.0	0.0	10.20
9200.00	4000.00	0.0	0.0	350.00	1100.00	50155.00*****		50155.00	10.00	170.00	180.00	0.00
10500.00	1300.00	0.0	0.0	360.40	380.00	365.88	66.65	365.98	228.70	0.0	0.0	3.88
10500.00	1300.00	0.0	0.0	360.40	830.00	366.77	146.43	366.88	248.69	0.0	0.0	3.48
10500.00	1300.00	0.0	0.0	360.40	1100.00	367.17	194.58	367.28	254.64	0.0	0.0	3.69
10500.00	1300.00	0.0	0.0	360.40	2200.00	368.39	379.25	368.54	272.06	0.0	0.0	4.41
10500.00	1300.00	0.0	0.0	360.40	1100.00	50155.00*****		50155.00	26.00	1201.00	1227.00	0.00

SECTION NUMBER	DISCHARGE CFS	CWSEL	CWSEL DIFF EACH Q	CWSEL DIFF EACH SECTION	CWSEL-WSELK	TOPWID	T.W. DIFF	LENGTH
2700.000	380.000	316.636	0.0	0.0	0.0	235.846	0.0	2700.000
2700.000	830.000	317.413	0.777	0.0	0.0	343.101	-107.255	2700.000
2700.000	1100.000	317.735	0.322	0.0	0.0	387.490	-151.644	2700.000
2700.000	2200.000	318.673	0.938	0.0	0.0	516.888	-281.042	2700.000
2700.000	1100.000	50155.000	49836.320	0.0	0.0	79.138	156.708	2700.000
5200.000	380.000	327.246	0.0	10.610	0.0	206.845	0.0	2500.000
5200.000	830.000	328.219	0.972	10.805	0.0	293.244	-86.398	2500.000
5200.000	1100.000	328.631	0.412	10.696	0.0	329.754	-122.908	2500.000
5200.000	2200.000	329.818	1.188	11.146	0.0	433.976	-227.131	2500.000
5200.000	1100.000	50155.000	49825.180	0.0	0.0	90.373	116.472	2500.000
9200.000	380.000	356.273	0.0	29.027	0.0	90.211	0.0	4000.000
9200.000	830.000	357.163	0.890	28.944	0.0	146.259	-56.048	4000.000
9200.000	1100.000	357.499	0.336	28.868	0.0	167.438	-77.227	4000.000
9200.000	2200.000	358.548	1.050	28.730	0.0	233.335	-143.124	4000.000
9200.000	1100.000	50155.000	49796.450	0.0	0.0	10.002	80.209	4000.000
10500.000	380.000	365.880	0.0	9.607	0.0	228.703	0.0	1300.000
10500.000	830.000	366.774	0.895	9.612	0.0	248.692	-19.989	1300.000
10500.000	1100.000	367.175	0.400	9.676	0.0	254.644	-25.940	1300.000
10500.000	2200.000	368.394	1.219	9.845	0.0	272.059	-43.355	1300.000
10500.000	1100.000	50155.000	49786.600	0.0	0.0	26.002	202.701	1300.000

DATA FOR LAST CROSS SECTION
 PROFILE TYPE ENC TARGET TOP WIDTH TOP WIDTH

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T1 TRIB. 24 BASIN 18
 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. 318.740 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= 142.19 WSEL= 317.74 ENC Q1= 142.19 WSEL= 318.74 RATIO= 0.0

NAT Q1= 297. RATIOS LOB,CH,ROB= 0.0244 0.1400 0.8356 WSEL= 318.74
 SECNO DEPTH CWSEL CRIWS WSELK EG HV HL GLOSS BANK ELEV
 Q GLOS 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 ENCROACHMENT STATIONS= 114.1 327.5 TYPE= 4 TARGET= 0.521
 2700.00 8.74 318.74 0.0 317.74 318.79 0.05 0.0 0.0 315.00
 1100. 26. 173. 900. 18. 62. 593. 0. 0. 315.00
 0.0 1.49 2.78 1.52 0.085 0.060 0.085 0.0 310.00 114.10
 0.001739 2700. 2700. 2700. 0 0 1 0.0 213.43 327.53

2800 NAT Q1= 192.02 WSEL= 328.60 ENC Q1= 192.02 WSEL= 329.60 RATIO= -0.0000
 NAT Q1= 341. RATIOS LOB,CH,ROB= 0.1794 0.1511 0.6695 WSEL= 329.60

3470 ENCROACHMENT STATIONS= 122.6 304.6 TYPE= 4 TARGET= 0.437
 5200.00 7.65 327.65 0.0 328.60 327.92 0.27 9.06 0.07 325.00
 1100. 164. 327. 609. 65. 52. 221. 29. 11. 325.00
 0.18 2.52 6.35 2.76 0.085 0.060 0.085 0.060 320.00 122.62
 0.011715 2500. 2500. 2500. 5 0 1 0.0 181.95 304.57

2800 NAT Q1= 67.04 WSEL= 357.47 ENC Q1= 67.04 WSEL= 358.47 RATIO= 0.0
 NAT Q1= 134. RATIOS LOB,CH,ROB= 0.1581 0.2877 0.5542 WSEL= 358.47

3470 ENCROACHMENT STATIONS= 155.6 230.6 TYPE= 4 TARGET= 0.500
 9200.00 9.19 359.19 0.0 357.47 359.43 0.24 31.51 0.00 355.00
 1100. 166. 351. 582. 53. 67. 186. 59. 23. 355.00
 0.48 3.13 5.25 3.13 0.085 0.060 0.085 0.060 350.00 155.55
 0.005659 4000. 4000. 4000. 8 0 1 0.0 75.01 230.56

2800 NAT Q1= 196.06 WSEL= 367.19 ENC Q1= 196.06 WSEL= 368.19 RATIO= 0.0

(USE ELEV. 329.0 FOR A & B DUE TO SCS DAM

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	2700.00	2700.00	0.0	0.0	310.00	1100.00	317.74	142.19	317.84	387.49	0.0	0.0	4.59
	2700.00	2700.00	0.0	0.0	310.00	1100.00	318.74	263.75	318.79	213.43	114.10	327.53	2.78
B	5200.00	2500.00	0.0	0.0	320.00	1100.00	328.60	192.02	328.68	327.10	0.0	0.0	3.76
	5200.00	2500.00	0.0	0.0	320.00	1100.00	327.65	101.63	327.92	181.95	122.62	304.57	6.75
A	9200.00	4000.00	0.0	0.0	350.00	1100.00	357.47	67.04	358.15	165.53	0.0	0.0	9.39
	9200.00	4000.00	0.0	0.0	350.00	1100.00	359.19	146.23	359.43	75.01	155.55	230.56	5.25
B	10500.00	1300.00	0.0	0.0	360.40	1100.00	367.19	196.06	367.29	254.81	0.0	0.0	3.66
	10500.00	1300.00	0.0	0.0	360.40	1100.00	367.27	131.73	367.60	102.09	1178.14	1280.24	5.52

SECTION NUMBER	DISCHARGE CFS	CWSEL	CWSEL DIFF EACH G	CWSEL DIFF EACH SECTION	CWSEL-WSELK	TOPWID	T.W. DIFF	LENGTH
2700.000	1100.000	317.735	0.0	0.0	0.0	387.490	0.0	2700.000
2700.000	1100.000	318.740	1.005	0.0	0.0	213.425	174.065	2700.000
5200.000	1100.000	328.602	0.0	10.866	0.0	327.095	0.0	2500.000
5200.000	1100.000	327.651	-0.950	8.911	0.0	181.950	145.145	2500.000
9200.000	1100.000	357.469	0.0	28.867	0.0	165.531	0.0	4000.000
9200.000	1100.000	359.193	1.725	31.542	0.0	75.011	90.520	4000.000
10500.000	1100.000	367.186	0.0	9.718	0.0	254.814	0.0	1300.000
10500.000	1100.000	367.272	0.086	8.079	0.0	102.094	152.719	1300.000

DATA FOR LAST CROSS SECTION

PROFILE	TYPE ENC	TARGET	TOP WIDTH AREA-ACRES	TOP WIDTH AREA-DIFF
1	0.0	0.0	49.396	0.0
2	4.000	0.429	25.786	-23.610

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