

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	
A	87,150. <del>750,000</del>	750.00	0.0	0.0	375.00	1750.00	380.83	247.99	380.93	343.06	0.0	0.0	4.75
	<del>750,000</del>	750.00	0.0	0.0	375.00	1750.00	381.83	296.54	361.94	167.10	445.00	612.10	3.52
B	90,000. <del>3600,000</del>	2850.00	0.0	0.0	390.10	1550.00	395.93	204.35	396.13	352.92	0.0	0.0	5.07
	<del>3600,000</del>	2850.00	0.0	0.0	390.10	1550.00	396.51	159.39	396.98	133.08	1419.92	1553.00	6.64
C	97,400 <del>11000,000</del>	7400.00	0.0	0.0	431.00	750.00	436.97	104.25	437.26	81.47	0.0	0.0	5.41
	<del>11000,000</del>	7400.00	0.0	0.0	431.00	750.00	437.84	149.59	438.01	60.00	830.00	890.00	4.14

SECTION NUMBER	DISCHARGE CFS	CWSEL	CWSEL DIFF EACH Q	CWSEL DIFF EACH SECTION	CWSEL-WSELK	TOPWID	T.W. DIFF	LENGTH
750,000	1750.000	380.826	0.0	0.0	0.0	343.055	0.0	750.000
750,000	1750.000	381.830	1.004	0.0	0.0	167.097	175.958	750.000
3600,000	1550.000	395.930	0.0	15.104	0.0	352.920	0.0	2850.000
3600,000	1550.000	396.507	0.578	14.678	0.0	133.079	219.841	2850.000
11000,000	750.000	436.969	0.0	41.039	0.0	81.470	0.0	7400.000
11000,000	750.000	437.843	0.874	41.336	0.0	59.999	21.471	7400.000

DATA FOR LAST CROSS SECTION

PROFILE	TYPE ENC	TARGET	TOP WIDTH AREA-ACRES	TOP WIDTH AREA-DIFF
1	0.0	0.0	59.665	0.0
2	1.000	60.000	26.220	-33.445



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 OF GROUND	DISCHARGE (CFS)	CWSEL	TU	EG	TOPWID	STENCL	STENCR	VCH
1700.00	1700.00	0.0	0.0	352.70	300.00	357.57	33.79	357.63	120.17	0.0	0.0	4.60
3000.00	1300.00	0.0	0.0	367.10	300.00	371.29	23.96	371.71	111.25	0.0	0.0	5.83
3050.00	50.00	0.0	0.0	367.50	300.00	372.00	12.97	373.29	7.08	0.0	0.0	9.14
3280.00	250.00	395.80	385.50	367.50	300.00	372.00	12.97	373.29	7.08	0.0	0.0	9.14
3330.00	50.00	0.0	0.0	371.10	300.00	375.22	22.37	375.71	106.65	0.0	0.0	6.17

SECTION NUMBER	DISCHARGE CFS	CWSEL	CWSEL DIFF EACH 0	CWSEL DIFF EACH SECTION	CWSEL-WSELK	TOPWID	T.W. DIFF	LENGTH
1700.000	300.000	357.374	0.0	0.0	0.0	120.167	0.0	1700.000
3000.000	300.000	371.249	0.0	13.915	0.0	111.248	0.0	1300.000
3050.000	300.000	371.996	0.0	0.708	0.0	7.077	0.0	50.000
3280.000	300.000	371.997	0.0	0.001	0.0	7.077	0.0	230.000
3330.000	300.000	375.220	0.0	3.223	0.0	106.652	0.0	50.000

DATA FOR LAST CROSS SECTION

PROFILE	TYPE EMC	TARGET	TOP WIDTH AREA-ACRES	TOP WIDTH AREA-DIFF
1	0.0	0.0	3.624	0.0

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 HEC2 VERSION UPDATED JAN 1975  
 ERROR CORRECTIONS 01,02,03,04,05,06,07,08  
 MODIFICATIONS 52,53,54,55,56,57,58  
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11 TRIB. CAPY 5 BASIN 20  
 12 FLOODPLAIN STUDY AT WAKE COUNTY M-G JOB NO. 6655  
 13 50 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-10.	3.	0.	0.	0.008000	0.0	0.0	0.	359.000	0.0

J2	HPROF	IPLUT	PREVS	XSECV	XSECH	FN	ALLDC	IBW	CHNAM	ITRACE
	2.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CUHV=	0.100	CUHV=	0.300							
SECNO	DEPTH	CWSEL	CRIS	WSELK	EG	HV	HL	CLOSS	BANK ELEV	
0	QLOG	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT	
TIME	VLOG	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA	
SLOPE	XLOGL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	

1700.00	5.47	358.17	0.0	359.00	358.43	0.25	0.0	0.0	356.20	
625.	283.	322.	20.	152.	51.	15.	0.	0.	356.20	
0.0	1.85	5.32	1.54	0.085	0.060	0.085	0.0	352.70	1189.15	
0.008007	1700.	1700.	1700.	0	0	6	0.0	155.21	1344.56	

3000.00	4.92	372.02	371.02	0.0	372.40	0.38	13.93	0.04	370.60	
625.	77.	322.	227.	39.	49.	99.	6.	5.	370.90	
0.08	1.97	6.53	2.30	0.085	0.060	0.085	0.060	367.10	191.01	
0.015079	1300.	1300.	1300.	12	12	1	0.0	155.12	346.13	

6655.20 TRIALS USED WSEL,CWSEL

7185 MIN SPECIFIC ENERGY

5720 ASSUMED CRITICAL DEPTH

SECNO	DEPTH	CWSEL	CRIS	WSELK	EG	HV	HL	CLOSS	BANK ELEV	
0	QLOG	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT	
TIME	VLOG	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA	
SLOPE	XLOGL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	

3050.00	7.39	374.69	374.69	0.0	375.76	1.08	1.08	0.0	372.60	
625.	79.	483.	63.	24.	52.	19.	6.	5.	372.60	
0.08	3.27	9.31	3.26	0.085	0.060	0.085	0.060	367.30	428.93	
0.033180	50.	50.	50.	30	18	1	0.0	48.72	477.64	

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 HEC2 VERSION UPDATED JAN 1975  
 ERROR CORRECTIONS 01,02,03,04,05,06,07,08  
 MODIFICATIONS 52,53,54,55,56,57,58  
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TRIB. CARY 5 BASIN 20  
 FLOODPLAIN STUDY AT WAKE COUNTY M-G JOB NO.6855  
 100 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	ING	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FG
	-10.	4.	0.	0.	0.008000	0.0	0.0	0.	360.000	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	CRIS	WSELK	EG	HV	HL	QLOSS	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
1700.00	5.71	358.41	0.0	360.00	358.66	0.25	0.0	0.0	356.20
750.	574.	349.	27.	184.	64.	17.	0.	0.	356.20
0.0	2.03	5.46	1.65	0.085	0.060	0.085	0.0	352.70	1184.62
0.007859	1700.	1700.	1700.	0	0	4	0.0	161.36	1345.98
3000.00	5.11	372.21	372.04	0.0	372.59	0.38	13.89	0.04	370.60
750.	107.	350.	293.	48.	52.	117.	7.	5.	370.90
0.00	2.21	6.79	2.51	0.085	0.060	0.085	0.060	367.10	187.01
0.015359	1300.	1300.	1300.	13	9	1	0.0	164.82	351.83

3685 20 TRIALS USED WSEL,CWSEL

7185 410 SPECIFIC ENERGY

3720 ASSUMED CRITICAL DEPTH

SECNO	DEPTH	CWSEL	CRIS	WSELK	EG	HV	HL	QLOSS	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
3050.00	7.75	375.05	375.05	0.0	376.15	1.10	1.10	0.0	372.60
750.	122.	529.	98.	33.	55.	27.	7.	5.	372.60
0.08	3.67	9.71	3.67	0.085	0.060	0.085	0.060	367.30	424.85
0.033783	50.	50.	50.	30	17	1	0.0	55.07	480.92

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 HEC2 VERSION UPDATED JAN 1975  
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 MODIFICATIONS 52,53,54,55,56,57,58  
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T1 TRIB. CARY 5 BASIN 20  
 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	0	WSEL	FQ
	-10.	5.	0.	0.	0.008000	0.0	0.0	0.	361.000	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

COHV= 0.100 CCHV= 0.300

SECNO	DEPTH	CWSEL	CRWS	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

1700.00	6.76	359.46	0.0	361.00	359.74	0.28	0.0	0.0	356.20
1500.	928.	495.	77.	333.	79.	36.	0.	0.	356.20
0.7	2.79	0.30	2.14	0.085	0.060	0.085	0.0	352.70	1164.87
0.007936	1700.	1700.	1700.	0	0	4	0.0	188.20	1353.07

3000.00	6.02	373.12	372.74	0.0	373.50	0.39	13.73	0.03	370.60
1500.	318.	472.	710.	106.	62.	220.	12.	6.	370.90
0.08	3.01	7.56	3.22	0.085	0.060	0.085	0.060	367.10	167.61
0.014739	1300.	1300.	1300.	13	10	1	0.0	211.85	379.46

3685 20 TRIALS USED WSEL,CWSEL

7185 MIN SPECIFIC ENERGY

3720 ASSUMED CRITICAL DEPTH

SECNO	DEPTH	CWSEL	CRWS	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

3050.00	9.10	376.40	376.40	0.0	377.65	1.25	1.13	0.0	372.60
1500.	420.	743.	337.	80.	64.	64.	13.	6.	372.60
0.08	5.27	11.59	5.26	0.085	0.060	0.085	0.060	367.30	409.99
0.038839	50.	50.	50.	30	11	1	0.0	82.87	492.86

SUMMARY PRINTOUT FOR MULTIPLE PROFILES

500 YEARS FLOOD WATER SUR

*Station No.*  
*stream Bed*  
*W.S. profile*

SECTION CHANNEL MIN EL OF MAX EL OF MIN EL DISCHARGE CWSL TO EG TOPWID STENCL STENCR VCH  
NUMBER LENGTH ROADWAY LOW CHORD GROUND (CFS)

**A** 1700.00 1700.00 0.0 0.0 352.70 300.00 357.37 33.79 357.63 120.17 0.0 0.0 4.60  
1700.00 1700.00 0.0 0.0 352.70 625.00 358.17 69.85 358.43 155.21 0.0 0.0 5.32  
1700.00 1700.00 0.0 0.0 352.70 750.00 358.41 84.60 358.66 161.36 0.0 0.0 5.46  
1700.00 1700.00 0.0 0.0 352.70 1500.00 359.46 168.38 359.74 188.20 0.0 0.0 6.30

**B** 3000.00 1300.00 0.0 0.0 367.10 300.00 371.29 23.96 371.71 111.25 0.0 0.0 5.83  
3000.00 1300.00 0.0 0.0 367.10 625.00 372.02 50.90 372.40 155.12 0.0 0.0 6.53  
3000.00 1300.00 0.0 0.0 367.10 750.00 372.21 60.52 372.59 164.82 0.0 0.0 6.79  
3000.00 1300.00 0.0 0.0 367.10 1500.00 373.12 123.55 373.50 211.85 0.0 0.0 7.56

3050.00 50.00 0.0 0.0 367.30 300.00 372.00 12.97 373.29 7.08 0.0 0.0 9.14  
3050.00 50.00 0.0 0.0 367.30 625.00 374.68 34.31 375.76 48.72 0.0 0.0 9.31  
3050.00 50.00 0.0 0.0 367.30 750.00 375.05 40.80 376.15 56.07 0.0 0.0 9.71  
3050.00 50.00 0.0 0.0 367.30 1500.00 376.40 76.11 377.65 82.87 0.0 0.0 11.59

3280.00 230.00 393.80 385.30 367.30 300.00 372.00 12.97 373.29 7.08 0.0 0.0 9.14  
3280.00 230.00 393.80 385.30 367.30 625.00 374.69 34.32 375.76 48.72 0.0 0.0 9.31  
3280.00 230.00 393.80 385.30 367.30 750.00 375.05 40.81 376.15 56.08 0.0 0.0 9.71  
3280.00 230.00 393.80 385.30 367.30 1500.00 376.40 76.13 377.65 82.88 0.0 0.0 11.59

**C** 3330.00 50.00 0.0 0.0 371.10 300.00 375.22 22.37 375.71 106.65 0.0 0.0 6.17  
3330.00 50.00 0.0 0.0 371.10 625.00 376.37 69.74 376.57 173.21 0.0 0.0 5.03  
3330.00 50.00 0.0 0.0 371.10 750.00 376.71 91.76 376.88 190.72 0.0 0.0 4.82  
3330.00 50.00 0.0 0.0 371.10 1500.00 378.12 228.49 378.24 258.78 0.0 0.0 4.59

SECTION DISCHARGE CWSL CWSL DIFF CWSL DIFF CWSL-WSELK TOPWID T.W. DIFF LENGTH  
NUMBER CFS EACH Q EACH SECTION

1700.000 300.000 357.374 0.0 0.0 0.0 120.167 0.0 1700.000  
1700.000 625.000 358.174 0.800 0.0 0.0 155.210 -35.043 1700.000  
1700.000 750.000 358.414 0.240 0.0 0.0 161.362 -41.195 1700.000  
1700.000 1500.000 359.461 1.047 0.0 0.0 188.197 -68.030 1700.000

3000.000 300.000 371.289 0.0 13.915 0.0 111.243 0.0 1300.000  
3000.000 625.000 372.019 0.730 13.844 0.0 155.122 -43.873 1300.000  
3000.000 750.000 372.209 0.191 13.795 0.0 164.824 -53.576 1300.000  
3000.000 1500.000 373.117 0.908 13.656 0.0 211.853 -100.604 1300.000

3050.000 300.000 371.996 0.0 0.708 0.0 7.077 0.0 50.000  
3050.000 625.000 374.685 2.689 2.666 0.0 48.715 -41.638 50.000  
3050.000 750.000 375.054 0.369 2.844 0.0 56.072 -48.995 50.000  
3050.000 1500.000 376.396 1.343 3.280 0.0 82.872 -75.795 50.000

3280.000 300.000 371.997 0.0 0.001 0.0 7.077 0.0 230.000  
3280.000 625.000 374.686 2.688 0.001 0.0 48.725 -41.648 230.000  
3280.000 750.000 375.054 0.368 0.000 0.0 56.076 -49.000 230.000  
3280.000 1500.000 376.397 1.343 0.000 0.0 82.881 -75.804 230.000

3330.000 300.000 375.220 0.0 3.223 0.0 106.652 0.0 50.000  
3330.000 625.000 376.373 1.153 1.687 0.0 173.214 -66.563 50.000  
3330.000 750.000 376.712 0.340 1.658 0.0 190.716 -84.064 50.000  
3330.000 1500.000 378.115 1.403 1.719 0.0 258.776 -152.125 50.000





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 HEC2 VERSION UPDATED JAN 1975  
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T1 TKIB, CARY 5 BASIN 20  
 T2 FLOODPLAIN STUDY AT WAKE COUNTY M-G JOB NO.6855  
 T3 100 YEAR FLOODWAY

J1	ICHECK	ING	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FG
	-10.	6.	0.	0.	0.0	0.0	0.0	0.	359.410	0.0
J2	NPROF	IPL0T	PRFVS	XSECV	XSECH	FN	ALLOD	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

3470 ENCR0ACHMENT STATIONS=	1295.0	1345.0	TYPE=	1	TARGET=	50.000			
1700.00	6.71	359.41	0.0	359.41	359.80	0.39	0.0	0.0	356.20
750.	212.	463.	75.	68.	78.	30.	0.	0.	356.20
0.0	3.13	5.94	2.46	0.085	0.060	0.085	0.0	352.70	1295.00
0.007153	1700.	1700.	1700.	0	0	1	0.0	50.00	1345.00

3470 ENCR0ACHMENT STATIONS=	222.0	272.0	TYPE=	1	TARGET=	50.000			
3000.00	5.77	372.87	372.48	0.0	373.54	0.67	13.65	0.08	370.60
750.	135.	465.	150.	37.	59.	41.	5.	1.	370.90
0.06	3.66	7.83	3.67	0.085	0.060	0.085	0.060	367.10	222.00
0.015897	1300.	1300.	1300.	13	14	1	0.0	50.00	272.00

2800 NAT Q1= 40.00 WSEL= 375.05 ENC Q1= 40.80 WSEL= 376.05 RATIO= 0.0  
 NAT Q1= 65, RATIOS LOB,CH,ROB= 0.2541 0.5420 0.2039 WSEL= 376.05  
 3685 20 TRIALS USED WSEL,CWSEL

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

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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
1700.00	1700.00	0.0	0.0	352.70	750.00	358.41	84.60	358.66	161.36	0.0	0.0	5.46
1700.00	1700.00	0.0	0.0	352.70	750.00	359.41	88.68	359.80	50.00	1295.00	1345.00	5.94
3000.00	1300.00	0.0	0.0	367.10	750.00	372.21	60.52	372.59	164.82	0.0	0.0	6.79
3000.00	1300.00	0.0	0.0	367.10	750.00	372.87	57.70	373.54	50.00	222.00	272.00	7.83
3050.00	50.00	0.0	0.0	367.30	750.00	375.05	40.80	376.15	56.07	0.0	0.0	9.71
3050.00	50.00	0.0	0.0	367.30	750.00	374.78	33.34	376.58	19.76	444.98	464.74	11.60
3280.00	230.00	393.80	385.30	367.30	750.00	375.05	40.81	376.15	56.08	0.0	0.0	9.71
3280.00	230.00	393.80	385.30	367.30	750.00	376.05	65.17	376.58	76.02	0.0	0.0	6.60
3330.00	50.00	0.0	0.0	371.10	750.00	376.71	91.76	376.88	190.72	0.0	0.0	4.82
3330.00	50.00	0.0	0.0	371.10	750.00	376.76	58.87	377.37	56.78	223.07	279.85	7.57

SECTION NUMBER	DISCHARGE CFS	CWSEL	CWSEL DIFF EACH Q	CWSEL DIFF EACH SECTION	CWSEL-WSELK	TOPWID	T.W. DIFF	LENGTH
A 1700.000	750.000	358.414	0.0	0.0	0.0	161.362	0.0	1700.000
1700.000	750.000	359.410	0.995	0.0	0.0	49.999	111.363	1700.000
B 3000.000	750.000	372.209	0.0	13.795	0.0	164.824	0.0	1300.000
3000.000	750.000	372.867	0.658	13.457	0.0	49.999	114.825	1300.000
3050.000	750.000	375.054	0.0	2.844	0.0	56.072	0.0	50.000
3050.000	750.000	374.780	-0.273	1.913	0.0	19.758	36.313	50.000
3280.000	750.000	375.054	0.0	0.000	0.0	56.076	0.0	230.000
3280.000	750.000	376.053	0.999	1.273	0.0	76.022	-19.945	230.000
3330.000	750.000	376.712	0.0	1.658	0.0	190.716	0.0	50.000
3330.000	750.000	376.765	0.052	0.711	0.0	56.779	133.937	50.000

DATA FOR LAST CROSS SECTION

PROFILE	TYPE ENC	TARGET	TOP WIDTH AREA-ACRES	TOP WIDTH AREA-DIFF
1	0.0	0.0	5.432	0.0
2	4.000	0.490	1.861	-3.571