

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8
	5	0	5	0	5	0	5	0
1	1	BOONE CREEK	FLOOD PROFILES	T-U	2	4	02	05 10
2	2	315678	315737	315758	315800			
3	100	T	1	19	2	3146	4964	99 99
4	101	1210	1920	2220	3090			
5	105	-10	1	31600	0	1	31554	10 1 31503 14 1 31477 23 1 31463
5	106	24	1	31447	27	1	31443	33 1 31442 40 1 31444 42 1 31446
5	107	45	1	31465	51	1	31460	56 2 31505 100 2 31517 119 2 31526
5	108	130	2	31545	145	2	31570	195 2 31570 300 2 31620
6	110	1	2	045 045	1	2	035 035	
3	200	U	0	24	2	3149	5340	99 99
5	205	-10	1	31600	0	1	31577	10 1 31551 26 1 31531 31 1 31508
5	206	33	1	31502	34	1	31479	38 1 31475 40 1 31469 45 1 31469
5	207	51	1	31472	54	1	31475	55 1 31482 58 1 31501 59 1 31516
5	208	64	2	31528	68	2	31528	100 2 31532 200 2 31540 271 2 31547
5	209	300	2	31544	317	2	31548	324 2 31579 335 2 31600
6	215	1	2	045 045	1	2	035 035	

I - R

INPUT SUMMARY FOR: BOONE CREEK FLOOD PROFILES T-U

2 CROSS SECTIONS SPECIFIED (OR ASSUMED)

FOUND 2 TYPE 3 CARDS

KEPT 2 CROSS SECTIONS FOR EDITING

2 " " VALID FOR PROPERTY COMPUTATIONS

2 " " " " PROFILE "

CROSS-SECTION PROPERTIES FOR: BOONE CREEK FLOOD PROFILES T-U
 SECID=T AT DISTANCE= 4964 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3146.0	32	1353	1.00	21	22	23	44	224
3146.5	43	2049	1.00	23	25	22	45	330
3147.0	56	2794	1.00	29	30	18	47	444
3147.5	71	3775	1.00	34	35	15	49	590
3148.0	89	5116	1.00	37	39	14	51	783
3148.5	109	6838	1.00	39	41	13	52	1024
3149.0	129	8786	1.00	41	43	12	53	1292
3149.5	150	10958	1.00	43	45	11	54	1586
3150.0	171	13355	1.00	45	47	10	55	1907
3150.5	194	15966	1.00	46	50	10	56	2252
3151.0	222	19104	1.03	66	69	9	74	2282
3151.5	260	22811	1.09	85	88	8	93	2471
3152.0	306	27337	1.13	100	103	7	106	2865
3152.5	359	32736	1.15	111	115	6	117	3412
3153.0	416	39246	1.14	117	120	5	121	4185
3153.5	476	46673	1.11	120	125	4	124	5082
3154.0	537	54932	1.09	124	129	3	127	6063
3154.5	600	64009	1.07	128	133	2	130	7121
3155.0	665	73876	1.05	132	137	1	133	8247
3155.5	732	84537	1.04	136	141	0	136	9442
3156.0	801	95958	1.03	140	145	0	139	10703
3156.5	873	108191	1.02	144	149	-1	142	12033
3157.0	946	121242	1.02	148	154	-2	145	13430
3157.5	1048	123816	1.12	210	215	-4	206	12557
3158.0	1156	140069	1.10	222	227	-5	216	14247
3158.5	1270	157780	1.09	233	239	-6	227	16078
3159.0	1389	177004	1.08	245	250	-7	237	18052
3159.5	1514	197791	1.07	256	262	-8	248	20172
3160.0	1646	220196	1.06	268	274	-9	258	22440
3160.5	1782	244966	1.06	279	285	-9	269	24871
3161.0	1924	271386	1.05	289	296	-9	279	27449
3161.5	2071	299497	1.05	300	307	-9	290	30177
3162.0	2224	329338	1.04	310	318	-9	300	33058

CROSS-SECTION PROPERTIES FOR: BOONE CREEK FLOOD PROFILES T-U
 SECID=U AT DISTANCE= 5340 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
3149.0	38	1699	1.00	23	24	34	56	277
3149.5	50	2550	1.00	24	26	33	57	405
3150.0	62	3538	1.00	25	27	33	58	552
3150.5	74	4616	1.00	26	29	32	58	709
3151.0	88	5823	1.00	28	31	31	59	883

CROSS-SECTION PROPERTIES FOR: BOONE CREEK
 SECID=U AT DISTANCE= 5340

FLOOD PROFILES
 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
3151.5	102	7225	1.00	29	33	29	59	1082
3152.0	118	8600	1.00	32	36	28	61	1275
3152.5	135	10140	1.00	35	39	27	63	1488
3153.0	155	12081	1.03	58	62	26	84	1428
3153.5	197	14480	1.18	115	119	23	138	1352
3154.0	271	18309	1.34	181	185	19	200	1625
3154.5	376	24212	1.40	250	254	15	304	2215
3155.0	523	33821	1.31	307	311	11	317	3378
3155.5	677	48159	1.16	310	314	8	319	5273
3156.0	833	65436	1.07	313	318	7	320	7429
3156.5	990	85335	1.03	316	321	5	321	9776
3157.0	1149	107702	1.01	319	324	3	322	12283
3157.5	1309	132421	1.00	322	327	1	323	14940
3158.0	1471	159264	1.00	326	331	0	325	17729
3158.5	1635	187923	1.00	331	336	-2	327	20626
3159.0	1802	218704	1.00	335	341	-5	330	23665
3159.5	1971	251569	1.00	340	346	-7	332	26845
3160.0	2142	286486	1.01	345	351	-9	335	30165

WATER-SURFACE PROFILE FOR: BOONE CREEK FLOOD PROFILES T-U
PAGE 1 OF 1 PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV		HV	HF	HE	EG	V	FN	ACC	*ID*
T	AT	4964	0	1210.	906.	114092.	1.02	-3.	143.
3156.73		0.03			3156.76	1.34	0.08		*IS*
U	AT	5340	376	1210.	1081.	97918.	1.02	4.	321.
3156.79		0.02	0.05	0.0	3156.81	1.12	0.11	0.000	*XS*

END OF THIS PROFILE

WATER-SURFACE PROFILE FOR: BOONE CREEK FLOOD PROFILES T-U
PAGE 1 OF 1, PROFILE NUMBER 2, UPSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REH
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID*	
T	AT	4964	0	1920.	1021.	119819.	1.12	-4.	203.
		3157.37	0.06		3157.43	1.88	0.13		*IS*
U	AT	5340	376	1920.	1305.	131690.	1.00	1.	323.
		3157.49	0.03	0.09	3157.52	1.47	0.13	0.000	*XS*

END OF THIS PROFILE

WATER-SURFACE PROFILE FOR: BOONE CREEK FLOOD PROFILES T-U
 PAGE 1 OF 1, PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

SECID	AT	DIS	LEN	DIS	AREA	CON	ALP	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID	
T	AT	4964	0	2220.	1065.	126315.	1.12	-5.	207.
3157.58	0.08			3157.66	2.08	0.14		*IS*	
U	AT	5340	376	2220.	1379.	143859.	1.00	-0.	324.
3157.72	0.04	0.10	0.0	3157.76	1.61	0.14	0.000	*XS*	

END OF THIS PROFILE

WATER-SURFACE PROFILE FOR: BOONE CREEK FLOOD PROFILES T-U
PAGE 1 OF 1, PROFILE NUMBER 4, UPSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV		HV	HF	HE	EG	V	FN	ACC	ID*
T	AT	4964	0	3090.	1156.	140069.	1.10	-6.	216.
3158.00		0.12			3158.12	2.67	0.18		*IS*
U	AT	5340	376	3090.	1540.	171037.	1.00	-2.	326.
3158.21		0.06	0.15	0.0	3158.27	2.01	0.17	-0.000	*XS*

END OF THIS PROFILE

CROSS-SECTION PROPERTIES FOR: BOONE CREEK
 SECID=DUM 1 AT DISTANCE= -275

X-SECTION PROPERTIES DUM 1
 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
3114.0	220	19483	1.00	45	50	28	73	2761
3114.1	225	20056	1.00	45	51	28	73	2837
3114.2	229	20639	1.00	46	51	28	73	2914
3114.3	234	21229	1.00	46	52	28	74	2992
3114.4	239	21829	1.00	46	52	27	74	3070
3114.5	243	22437	1.00	47	52	27	74	3150
3114.6	248	23052	1.00	47	53	27	74	3231
3114.7	253	23677	1.00	47	53	27	74	3313
3114.8	257	24309	1.00	48	53	27	75	3395
3114.9	262	24951	1.00	48	54	27	75	3479
3115.0	267	25602	1.00	48	54	27	75	3564
3115.1	272	26260	1.00	49	55	27	75	3649
3115.2	277	26927	1.00	49	55	26	75	3736
3115.3	282	27602	1.00	49	55	26	75	3823
3115.4	287	28287	1.00	49	56	26	76	3912
3115.5	291	28980	1.00	50	56	26	76	4001
3115.6	296	29681	1.00	50	56	26	76	4092
3115.7	301	30392	1.00	50	57	26	76	4183
3115.8	307	31110	1.00	51	57	26	76	4276
3115.9	312	31838	1.00	51	57	26	77	4369
3116.0	317	32575	1.00	51	58	25	77	4464
3116.1	322	33319	1.00	52	58	25	77	4559
3116.2	327	34074	1.00	52	59	25	77	4656
3116.3	332	34836	1.00	52	59	25	77	4753
3116.4	337	35608	1.00	53	59	25	77	4852
3116.5	343	36390	1.00	53	60	25	78	4951
3116.6	348	37178	1.00	53	60	25	78	5052
3116.7	353	37977	1.00	53	60	24	78	5153
3116.8	359	38784	1.00	54	61	24	78	5256
3116.9	364	39601	1.00	54	61	24	78	5359
3117.0	370	40427	1.00	54	62	24	78	5464
3117.1	375	41261	1.00	55	62	24	79	5570
3117.2	381	42105	1.00	55	62	24	79	5676
3117.3	386	42957	1.00	55	63	24	79	5784
3117.4	392	43819	1.00	56	63	24	79	5893
3117.5	397	44691	1.00	56	63	23	79	6002
3117.6	403	45570	1.00	56	64	23	80	6113
3117.7	408	46460	1.00	57	64	23	80	6225
3117.8	414	47360	1.00	57	64	23	80	6338
3117.9	420	47983	1.00	58	65	22	80	6418
3118.0	426	48625	1.00	59	66	21	80	6500
3118.1	432	49282	1.00	60	67	21	80	6584
3118.2	438	49960	1.00	61	68	20	81	6671
3118.3	444	50910	1.00	61	69	20	81	6789
3118.4	450	51873	1.00	61	69	20	81	6909

CROSS-SECTION PROPERTIES FOR: BOONE CREEK
 SECID=DUM 1 AT DISTANCE= -275

X-SECTION PROPERTIES DUM 1
 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
3118.5	456	52846	1.00	62	70	19	81	7030
3118.6	462	53827	1.00	62	70	19	81	7152
3118.7	468	54821	1.00	62	70	19	81	7275
3118.8	475	55824	1.00	63	71	19	82	7399
3118.9	481	56839	1.00	63	71	19	82	7525
3119.0	487	57865	1.00	64	72	18	82	7652
3119.1	494	58899	1.00	64	72	18	82	7779
3119.2	500	59946	1.00	64	73	18	82	7908
3119.3	506	61002	1.00	65	73	18	83	8038
3119.4	513	62071	1.00	65	73	18	83	8170
3119.5	519	63150	1.00	65	74	17	83	8303
3119.6	526	64238	1.00	66	74	17	83	8436
3119.7	533	65340	1.00	66	75	17	83	8571
3119.8	539	66450	1.00	67	75	17	83	8707
3119.9	546	67573	1.00	67	76	17	84	8845
3120.0	553	69708	1.00	67	76	16	84	8983
3120.1	559	69850	1.00	68	76	16	84	9123
3120.2	566	71007	1.00	68	77	16	84	9264
3120.3	573	72172	1.00	68	77	16	84	9406
3120.4	580	73351	1.00	69	78	16	84	9550
3120.5	587	74541	1.00	69	78	15	85	9694
3120.6	594	75740	1.00	70	79	15	85	9840
3120.7	601	76958	1.00	70	79	15	85	9988
3120.8	608	77313	1.00	72	81	15	87	10039
3120.9	615	77715	1.00	73	82	15	88	10096
3121.0	622	78162	1.00	75	84	15	90	10159
3121.1	630	78653	1.00	77	86	14	91	10227
3121.2	638	79187	1.00	79	88	14	93	10300
3121.3	646	79762	1.00	90	90	14	94	10378
3121.4	654	80380	1.00	82	91	14	96	10461
3121.5	662	81038	1.00	84	93	14	98	10549
3121.6	671	81734	1.00	86	95	13	99	10641
3121.7	679	82471	1.00	87	97	13	101	10738
3121.8	688	83245	1.00	89	99	13	102	10840
3121.9	697	84058	1.00	91	100	13	104	10946
3122.0	706	84909	1.00	93	102	13	105	11057
3122.1	716	85794	1.00	95	104	12	107	11172
3122.2	725	86719	1.00	96	106	12	108	11292
3122.3	735	87687	1.00	98	107	12	110	11417
3122.4	745	89526	1.00	98	108	12	110	11634
3122.5	755	91382	1.00	98	108	12	110	11854
3122.6	765	93249	1.00	99	108	11	110	12075
3122.7	774	95137	1.00	99	108	11	110	12297
3122.8	784	97037	1.00	99	109	11	110	12521
3122.9	794	98958	1.00	99	109	11	110	12746

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 2, DATE= 9/22/77

INPUT SUMMARY FOR: BOONE CREEK OVERLAND FLOW 2ND TRY CUL U-X

7 CROSS SECTIONS SPECIFIED (OR ASSUMED)

FOUND 7 TYPE 3 CARDS

KEPT 7 CROSS SECTIONS FOR EDITING

7 " " VALID FOR PROPERTY COMPUTATIONS

7 " " " " PROFILE "

U to X FINAL

CROSS-SECTION PROPERTIES FOR: BOONE CREEK OVERLAND FLOW 2ND TRY CUL U-X
 SECID=U AT DISTANCE= 5340 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3149.0	38	1699	1.00	23	24	34	56	277
3158.9	1768	212374	1.00	334	340	-4	329	23045
3160.0	2142	286486	1.01	345	351	-9	335	30165

CROSS-SECTION PROPERTIES FOR: BOONE CREEK OVERLAND FLOW 2ND TRY CUL U-X
 SECID=CULEX AT DISTANCE= 5376 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3154.0	72	1941	1.00	141	141	21	163	290
3160.3	2049	277361	1.00	360	361	-9	350	27716

CROSS-SECTION PROPERTIES FOR: BOONE CREEK OVERLAND FLOW 2ND TRY CUL U-X
 SECID= U-1 AT DISTANCE= 5790 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3158.0	159	4264	1.00	317	317	50	367	638
3162.7	1860	229917	1.00	374	376	6	380	23528

CROSS-SECTION PROPERTIES FOR: BOONE CREEK OVERLAND FLOW 2ND TRY CUL U-X
 SECID=V AT DISTANCE= 5995 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3161.0	331	16512	1.00	260	261	16	276	2117
3169.5	2681	492421	1.00	294	299	0	294	45909

CROSS-SECTION PROPERTIES FOR: BOONE CREEK OVERLAND FLOW 2ND TRY CUL U-X
 SECID= V-1 AT DISTANCE= 6290 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3163.0	3	22	1.00	18	18	28	46	5
3171.8	1919	296953	1.10	247	247	0	242	29173

CROSS-SECTION PROPERTIES FOR: BOONE CREEK OVERLAND FLOW 2ND TRY CUL U-X
 SECID=W AT DISTANCE= 6306 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3166.0	1	B	1.00	26	26	159	185	2
3175.0	1489	183901	1.00	290	301	0	290	19139

CROSS-SECTION PROPERTIES FOR: BOONE CREEK OVERLAND FLOW 2ND TRY CUL U-X
 SECID=X AT DISTANCE= 6356 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3150.0	13	344	1.00	18	18	189	207	63
3169.9	801	85730	1.02	165	177	80	245	9889
3178.0	2389	455845	1.06	210	232	80	290	44430

*** INPUT CARD PRINTOUT ***

.....1.....2.....3.....4.....5.....6.....7.....8
.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0

7	715	0	2	0	2	0	2	0	2
8	720	0	0	0	0	0	0	0	0

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK OVERLAND FLOW 2ND TRY CUL U-X
PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECID: ERROR(WARNING) MESSAGE: INTERMEDIATE RESULTS(IF ANY): ACTION TAKEN

CULEX: KU/KD < 0.7 OR > 1.4

U-1: WS TOO LOW	:	ALERTED USER
U-1: WS NOT FOUND BETWEEN	:	USED WSMIN = WSC
	:	WS = 3158.03 & WS = 3162.70
U-1: WS NOT FOUND	:	USED DEL = 0.25
V : WS TOO LOW	:	ASSUMED WS = WSC
V : KU/KD < 0.7 OR > 1.4	:	USED WSMIN = WSC
V-1: WS TOO LOW	:	ALERTED USER
V-1: KU/KD < 0.7 OR > 1.4	:	USED WSMIN = WSC
W : WS TOO LOW	:	ALERTED USER
W : WS NOT FOUND BETWEEN	:	USED WSMIN = WSC
	:	WS = 3168.62 & WS = 3175.00
w : WS NOT FOUND	:	USED DEL = 0.25
X : KU/KD < 0.7 OR > 1.4	:	ASSUMED WS = WSC
	:	ALERTED USER

OK

WATER-SURFACE PROFILE FOR: BOONE CREEK OVERLAND FLOW 2ND TRY CUL U-X
 PAGE 1 OF 1, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECID	AT	WS ELEV	HV	HF	HE	EG	V	FN	ACC	REW	ID
U	AT	5340	0	1210.	1082.	98006.	1.02	4.	321.		
		3156.79	0.02		3156.81	1.12	0.11				*IS*
CULEX	AT	5376	36	650.	843.	67735.	1.00	5.	330.		
		3156.79	0.01	0.00	0.0	3156.80	0.77	0.08	-0.016		*XS*
U-1	AT	5790	414	650.	168.	4676.	1.00	49.	368.		
		3158.03	0.23	*****	*****	3158.26	3.87	0.94	*****		*XS*
V	AT	5995	205	650.	209.	7712.	1.00	17.	275.		
		3160.53	0.15	2.40	0.0	3160.68	3.11	0.61	0.017		*XS*
V-1	AT	6290	295	650.	147.	4564.	1.09	18.	225.		
		3163.98	0.33	3.54	0.09	3164.31	4.42	0.79	-0.001		*XS*
W	AT	6306	16	650.	112.	4735.	1.00	80.	185.		
		3168.62	0.52	*****	*****	3169.14	5.81	0.99	*****		*XS*
X	AT	6356	50	930.	689.	67760.	1.01	80.	237.		
		3169.21	0.03	0.10	0.0	3169.24	1.35	0.13	-0.000		*XS*

10
 14
 Jump between 4-1 and
 in value by 1.0

END OF THIS PROFILE

COMPUTED WSC VALUES FOR: BOONE CREEK OVERLAND FLOW 2ND TRY CUL U-X
PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECID	U-1	V	V-1	W
WSC	3158.03	3160.31	3163.97	3168.62

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK OVERLAND FLOW 2ND TRY CUL U-X
 PROFILE NUMBER 2, DOWNSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

X	; WS TOO LOW			ASSUMED WS = WSC
W	; WS NOT FOUND BETWEEN			
		; WS = 3168.62 & WS = 3166.10;		USED DEL = 0.25
W	; WS NOT FOUND BETWEEN			
		; WS = 3168.62 & WS = 3166.10;		USED KE = 0.5
W	; WS NOT FOUND			ASSUMED WS = WSC
V-1;	KU/KD < 0.7 OR > 1.4			ALERTED USER
V-1;	SUPERCritical WS			COMPUTED WSA
V	; WS NOT FOUND BETWEEN			
		; WS = 3160.31 & WS = 3159.60;		USED DEL = 0.25
V	; WS NOT FOUND BETWEEN			
		; WS = 3160.31 & WS = 3159.60;		USED KE = 0.5
V	; WS NOT FOUND			ASSUMED WS = WSC
U-1;	WS NOT FOUND BETWEEN			
		; WS = 3158.03 & WS = 3157.50;		USED DEL = 0.25
U-1;	WS NOT FOUND BETWEEN			
		; WS = 3158.03 & WS = 3157.50;		USED KE = 0.5
U-1;	WS NOT FOUND			ASSUMED WS = WSC
CULEX;	WS NOT FOUND BETWEEN			
		; WS = 3154.40 & WS = 3153.30;		USED DEL = 0.25
CULEX;	WS NOT FOUND BETWEEN			
		; WS = 3154.40 & WS = 3153.30;		USED KE = 0.5
CULEX;	WS NOT FOUND			ASSUMED WS = WSC
U	; SUPERCritical WS			COMPUTED WSA

WATER-SURFACE PROFILE FOR: BOONE CREEK OVERLAND FLOW 2ND TRY CUL U-X
 PAGE 1 OF 1, PROFILE NUMBER 2, DOWNSTREAM COMPUTATIONS

SECID	AT	DISTANCE/	LENGTH/DISCHARGE/	AREA /CONVEYANCE/	ALPHA/	LEW /	REW
WS ELEV /	HV /	HF /	HE /	EG /	V /	FN /	ACC *ID*
X	AT	6356 /	0 /	930. /	90. /	6239. /	1.00 / 184. / 211.
		3163.47 /	1.67 /			3165.14 /	10.37 / 1.00/ *IS*
W	AT	6306 /	-50 /	650. /	112. /	4735. /	1.00 / 80. / 185.
		3168.62 /	0.52 /*****	*****/	*****/	3169.14 /	5.81 / 0.99 /***** *XS*
V-1	AT	6290 /	-16 /	650. /	44. /	638. /	1.01 / 23. / 222.
		3163.47 /	3.43 /	2.24 /	0.0 /	3166.90 /	14.82 / 5.40 / 0.001 *XS*
V	AT	5995 /	-295 /	650. /	152. /	4558. /	1.00 / 17. / 275.
		3160.31 /	0.28 /*****	*****/	*****/	3160.59 /	4.27 / 0.98 /***** *XS*
U-1	AT	5790 /	-205 /	650. /	168. /	4676. /	1.00 / 49. / 368.
		3158.03 /	0.23 /*****	*****/	*****/	3158.26 /	3.87 / 0.94 /***** *XS*
CULEX	AT	5376 /	-414 /	650. /	138. /	4715. /	1.00 / 18. / 210.
		3154.40 /	0.35 /*****	*****/	*****/	3154.74 /	4.71 / 0.98 /***** *XS*
U	AT	5340 /	-36 /	1210. /	97. /	6664. /	1.00 / 30. / 59.
		3151.31 /	2.44 /	0.99 /	0.0 /	3153.74 /	12.52 / 1.21 / 0.006 *XS*

Top of wall

*Sample below
12*

*10
L. S. ...*

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 11, DATE= 9/22/77

COMPUTED WSC VALUES FOR: BOONE CREEK OVERLAND FLOW 2ND TRY CUL U-X
PROFILE NUMBER 2, DOWNSTREAM COMPUTATIONS

SECID	U	CULEX	U-1	V	V-1	W	X
WSC	3151.84	3154.40	3158.03	3160.31	3163.97	3168.62	3163.47

COMPUTED WSA VALUES FOR: BOONE CREEK OVERLAND FLOW 2ND TRY CUL U-X
PROFILE NUMBER 2, DOWNSTREAM COMPUTATIONS

SECID	U	V-1
WSA	3152.46	3166.88

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK OVERLAND FLOW 2ND TRY CUL U-X
PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

U-1; WS TOO LOW		USED WSMIN = WSC
U-1; WS NOT FOUND BETWEEN	WS = 3158.29 & WS = 3162.70	USED DEL = 0.25
U-1; WS NOT FOUND		ASSUMED WS = WSC
V ; WS TOO LOW		USED WSMIN = WSC
V ; KU/KD < 0.7 OR > 1.4		ALERTED USER
V-1; WS TOO LOW		USED WSMIN = WSC
V-1; WS NOT FOUND BETWEEN	WS = 3164.35 & WS = 3171.80	USED DEL = 0.25
V-1; WS NOT FOUND		ASSUMED WS = WSC
W ; WS TOO LOW		USED WSMIN = WSC
W ; WS NOT FOUND BETWEEN	WS = 3169.24 & WS = 3175.00	USED DEL = 0.25
W ; WS NOT FOUND		ASSUMED WS = WSC
X ; KU/KD < 0.7 OR > 1.4		ALERTED USER

WATER-SURFACE PROFILE FOR: BOONE CREEK OVERLAND FLOW 2ND TRY CUL U-X
 PAGE 1 OF 1; PROFILE NUMBER 3; UPSTREAM COMPUTATIONS

SECID	AT	DIS	LEN	DIS	AREA	CONV	ALPHA	LEW	REN
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID	
U	AT	5340	0	1920.	1306.	131904.	1.00	1.	323.
3157.49	0.03			3157.52	1.47	0.13		*IS*	
CULEX	AT	5376	36	1250.	1073.	99656.	1.00	2.	335.
3157.49	0.02	0.01	0.0	3157.51	1.16	0.11	-0.020	*XS*	
U-1	AT	5790	414	1250.	253.	8838.	1.00	18.	369.
3158.29	0.38	*****	*****	3158.67	4.93	1.01	*****	*XS*	
U-2	AT	5995	205	1250.	307.	14618.	1.00	16.	276.
3160.91	0.26	2.48	0.0	3161.17	4.07	0.66	0.020	*XS*	
U-3	AT	6290	295	1250.	224.	9141.	1.11	16.	226.
3164.35	0.54	*****	*****	3164.88	5.58	0.81	*****	*XS*	
U-4	AT	6306	16	1250.	182.	9695.	1.00	69.	190.
3169.24	0.73	*****	*****	3169.98	6.87	0.99	*****	*XS*	
X-2	AT	6356	50	1520.	823.	89522.	1.02	80.	247.
3170.03	0.05	0.11	0.0	3170.09	1.85	0.16	-0.000	*XS*	

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 14, DATE= 9/22/77

COMPUTED WSC VALUES FOR: BOONE CREEK OVERLAND FLOW 2ND TRY CUL U-X
PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

SECID	U-1	V	V-1	W
WSC	3158.29	3160.63	3164.35	3169.24

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK OVERLAND FLOW 2ND TRY CUL U-X
 PROFILE NUMBER 4; DOWNSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

X	; WS TOO LOW			ASSUMED WS = WSC
W	; WS NOT FOUND BETWEEN			
		; WS = 3169.24 & WS = 3166.10;		USED DEL = 0.25
W	; WS NOT FOUND BETWEEN			
		; WS = 3169.24 & WS = 3166.10;		USED KE = 0.5
W	; WS NOT FOUND			ASSUMED WS = WSC
V-1;	KU/KD < 0.7 OR > 1.4			ALERTED USER
V-1;	SUPERCritical WS			COMPUTED WSA
V	; WS NOT FOUND BETWEEN			
		; WS = 3160.63 & WS = 3159.60;		USED DEL = 0.25
V	; WS NOT FOUND BETWEEN			
		; WS = 3160.63 & WS = 3159.60;		USED KE = 0.5
V	; WS NOT FOUND			ASSUMED WS = WSC
U-1;	WS NOT FOUND BETWEEN			
		; WS = 3158.29 & WS = 3157.50;		USED DEL = 0.25
U-1;	WS NOT FOUND BETWEEN			
		; WS = 3158.29 & WS = 3157.50;		USED KE = 0.5
U-1;	WS NOT FOUND			ASSUMED WS = WSC
CULEX;	WS NOT FOUND BETWEEN			
		; WS = 3154.83 & WS = 3153.30;		USED DEL = 0.25
CULEX;	WS NOT FOUND BETWEEN			
		; WS = 3154.83 & WS = 3153.30;		USED KE = 0.5
CULEX;	WS NOT FOUND			ASSUMED WS = WSC
U	; WS NOT FOUND BETWEEN			
		; WS = 3154.25 & WS = 3147.10;		USED DEL = 0.25
U	; WS NOT FOUND BETWEEN			
		; WS = 3154.25 & WS = 3147.10;		USED KE = 0.5
U	; WS NOT FOUND			ASSUMED WS = WSC

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WATER-SURFACE PROFILE FOR: BOONE CREEK OVERLAND FLOW 2ND TRY CUL U-X
PAGE 1 OF 1, PROFILE NUMBER 4, DOWNSTREAM COMPUTATIONS

SECID	AT DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID*
X	AT 6356	/ 0	/ 1520.	/ 231.	/ 16508.	/ 1.28	/ 80.	/ 214.
	3165.75	/ 0.86	/	/ 3166.61	/ 6.57	/ 0.94		*IS*
W	AT 6306	/ -50	/ 1250.	/ 182.	/ 9695.	/ 1.00	/ 69.	/ 190.
	3169.24	/ 0.73	/*****	/*****	/ 3169.98	/ 6.87	/ 0.99	/***** *XS*
V-1	AT 6290	/ -16	/ 1250.	/ 75.	/ 1482.	/ 1.06	/ 22.	/ 223.
	3163.63	/ 4.60	/ 1.74	/ 0.0	/ 3168.23	/ 16.74	/ 4.98	/ 0.004 *XS*
V	AT 5995	/ -295	/ 1250.	/ 234.	/ 9303.	/ 1.00	/ 17.	/ 276.
	3160.63	/ 0.44	/*****	/*****	/ 3161.07	/ 5.34	/ 0.99	/***** *XS*
U-1	AT 5790	/ -205	/ 1250.	/ 253.	/ 8838.	/ 1.00	/ 18.	/ 369.
	3158.29	/ 0.38	/*****	/*****	/ 3158.67	/ 4.93	/ 1.01	/***** *XS*
CULEX	AT 5376	/ -414	/ 1250.	/ 234.	/ 9318.	/ 1.00	/ 15.	/ 306.
	3154.83	/ 0.44	/*****	/*****	/ 3155.28	/ 5.34	/ 0.99	/***** *XS*
U	AT 5340	/ -36	/ 1920.	/ 319.	/ 21027.	/ 1.37	/ 17.	/ 225.
	3154.25	/ 0.77	/*****	/*****	/ 3155.02	/ 6.02	/ 1.00	/***** *XS*

not at Rd.

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Leave

ump holes
(E. side)

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 17, DATE= 9/22/77

COMPUTED WSC VALUES FOR: BOONE CREEK OVERLAND FLOW 2ND TRY CUL U-X
PROFILE NUMBER 4, DOWNSTREAM COMPUTATIONS

SECID	U	CULEX	U-1	V	V-1	W	X
WSC	3154.25	3154.83	3158.29	3160.63	3164.35	3169.24	3165.75

COMPUTED WSA VALUES FOR: BOONE CREEK OVERLAND FLOW 2ND TRY CUL U-X
PROFILE NUMBER 4, DOWNSTREAM COMPUTATIONS

SECID	U	V-1
WSA	3152.46	3160.21

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK OVERLAND FLOW 2ND TRY CUL U-X
 PROFILE NUMBER 5, UPSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

U-1; TOL FAILURE BETWEEN	; WS = 3157.49 & WS = 3157.74;	USED HIGHER WS
U-1; FRDN FAILURE	; WS = 3158.38 & FR = 1.07;	USED HIGHER WS
U-1; WS NOT FOUND BETWEEN	; WS = 3157.49 & WS = 3162.70;	USED DEL = 0.25
U-1; TOL FAILURE BETWEEN	; WS = 3157.49 & WS = 3157.62;	USED HIGHER WS
U-1; FRDN FAILURE	; WS = 3158.37 & FR = 1.08;	USED HIGHER WS
U-1; WS NOT FOUND BETWEEN	; WS = 3157.49 & WS = 3162.70;	USED WSMIN = WSC
U-1; WS NOT FOUND		ASSUMED WS = WSC
V ; WS TOO LOW		USED WSMIN = WSC
V ; KU/KD < 0.7 OR > 1.4		ALERTED USER
V-1; WS TOO LOW		USED WSMIN = WSC
V-1; WS NOT FOUND BETWEEN	; WS = 3164.50 & WS = 3171.80;	USED DEL = 0.25
V-1; WS NOT FOUND		ASSUMED WS = WSC
W ; WS TOO LOW		USED WSMIN = WSC
W ; WS NOT FOUND BETWEEN	; WS = 3169.46 & WS = 3175.00;	USED DEL = 0.25
W ; WS NOT FOUND		ASSUMED WS = WSC
X ; KU/KD < 0.7 OR > 1.4		ALERTED USER

WATER-SURFACE PROFILE FOR: BOONE CREEK OVERLAND FLOW 2ND TRY CUL U-X
 PAGE 1 OF 1, PROFILE NUMBER 5, UPSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID*	
U	AT	5340	0	2220.	1380.	144016.	1.00	-0.	324.
3157.72	0.04			3157.76	1.51	0.14		*IS*	
CULEX	AT	5376	36	1500.	1158.	112374.	1.00	1.	337.
3157.74	0.03	0.01	0.0	3157.77	1.30	0.12		-0.000	*XS*
U-1	AT	5790	414	1500.	294.	11084.	1.00	16.	370.
3158.41	0.40	*****	*****	3158.81	5.10	0.98		*****	*XS*
V	AT	5995	205	1500.	332.	16607.	1.00	16.	276.
3161.00	0.32	2.51	0.0	3161.32	4.52	0.70		0.005	*XS*
U-1	AT	6290	295	1500.	255.	11330.	1.11	15.	226.
3164.50	0.60	*****	*****	3165.09	5.88	0.80		*****	*XS*
WY	AT	6306	16	1500.	209.	11802.	1.00	65.	194.
3169.46	0.80	*****	*****	3170.26	7.17	0.99		*****	*XS*
X	AT	6356	50	1780.	869.	97717.	1.03	80.	249.
3170.31	0.07	0.12	0.0	3170.37	2.05	0.17		-0.000	*XS*

END OF THIS PROFILE

SEE UPSTREAM WORK
 3164.50
 3170.26

100
 117

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 20, DATE= 9/22/77

COMPUTED WSC VALUES FOR: BOONE CREEK OVERLAND FLOW 2ND TRY CUL U-X
PROFILE NUMBER 5, UPSTREAM COMPUTATIONS.

SECID	U-1	V	V-1	W
WSC	3158.41	3160.75	3164.50	3169.46

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK OVERLAND FLOW 2ND TRY CUL U-X
 PROFILE NUMBER 6; DOWNSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

X	; WS TOO LOW				
W	; WS NOT FOUND BETWEEN				ASSUMED WS = WSC
		; WS = 3169.46 & WS = 3166.10;			USED DEL = 0.25
W	; WS NOT FOUND BETWEEN				
		; WS = 3169.46 & WS = 3166.10;			USED KE = 0.5
W	; WS NOT FOUND				ASSUMED WS = WSC
	V-1; KU/KD < 0.7 OR > 1.4				ALERTED USER
	V-1; SUPERCRITICAL WS				COMPUTED WSA
V	; WS NOT FOUND BETWEEN				
		; WS = 3160.75 & WS = 3159.60;			USED DEL = 0.25
V	; WS NOT FOUND BETWEEN				
		; WS = 3160.75 & WS = 3159.60;			USED KE = 0.5
V	; WS NOT FOUND				ASSUMED WS = WSC
	U-1; WS NOT FOUND BETWEEN				
		; WS = 3158.41 & WS = 3157.50;			USED DEL = 0.25
	U-1; WS NOT FOUND BETWEEN				
		; WS = 3158.41 & WS = 3157.50;			USED KE = 0.5
	U-1; WS NOT FOUND				ASSUMED WS = WSC
CULEX;	WS NOT FOUND BETWEEN				
		; WS = 3154.99 & WS = 3153.30;			USED DEL = 0.25
CULEX;	WS NOT FOUND BETWEEN				
		; WS = 3154.99 & WS = 3153.30;			USED KE = 0.5
CULEX;	WS NOT FOUND				ASSUMED WS = WSC
U	; WS NOT FOUND BETWEEN				
		; WS = 3154.39 & WS = 3147.10;			USED DEL = 0.25
U	; WS NOT FOUND BETWEEN				
		; WS = 3154.39 & WS = 3147.10;			USED KE = 0.5
U	; WS NOT FOUND				ASSUMED WS = WSC

WATER-SURFACE PROFILE FOR: BOONE CREEK OVERLAND FLOW 2ND TRY CUL U-X
 PAGE 1 OF 1, PROFILE NUMBER 6, DOWNSTREAM COMPUTATIONS

SECID	AT	WS ELEV	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW	REW
		HV / HF / HE / EG / V / FU / ACC							*ID*
X	AT	6356 / 0 / 1780. / 260. / 18868. / 1.24 / 80. / 214.							
		3165.98 / 0.90 / / 3166.89 / 6.85 / 0.91/							*IS*
<i>Top of backwater</i>	AT	6306 / -50 / 1500. / 209. / 11802. / 1.00 / 65. / 194.							
		3169.46 / 0.80 /***** /***** / 3170.26 / 7.17 / 0.99 /*****							*XS*
<i>Top of backwater</i>	V-1 AT	6290 / -16 / 1500. / 87. / 1900. / 1.06 / 21. / 224.							
<i>V-1 21</i>		3163.69 / 4.95 / 1.61 / 0.0 / 3168.64 / 17.30 / 4.81 / 0.013							*XS*
	V	5995 / -295 / 1500. / 265. / 11415. / 1.00 / 16. / 276.							
		3160.75 / 0.50 /***** /***** / 3161.24 / 5.66 / 0.99 /*****							*XS*
	U-1 AT	5790 / -205 / 1500. / 294. / 11084. / 1.00 / 16. / 370.							
		3158.41 / 0.40 /***** /***** / 3158.81 / 5.10 / 0.98 /*****							*XS*
	CULEX AT	5375 / -414 / 1500. / 276. / 11198. / 1.00 / 13. / 312.							
		3154.99 / 0.45 /***** /***** / 3155.45 / 5.44 / 0.99 /*****							*XS*
	U	5340 / -36 / 2220. / 351. / 22932. / 1.37 / 16. / 240.							
		3154.39 / 0.85 /***** /***** / 3155.24 / 6.33 / 1.04 /*****							*XS*

END OF THIS PROFILE

*100
Down*

Top of backwater V-1

COMPUTED WSC VALUES FOR: BOONE CREEK OVERLAND FLOW 2ND TRY CUL U-X
PROFILE NUMBER 6; DOWNSTREAM COMPUTATIONS

SECID	U	CULEX	U-1	V	V-1	W	X
WSC	3154.39	3154.99	3158.41	3160.75	3164.50	3169.46	3165.98

COMPUTED WSA VALUES FOR: BOONE CREEK OVERLAND FLOW 2ND TRY CUL U-X
PROFILE NUMBER 6; DOWNSTREAM COMPUTATIONS

SECID	U	V-1
WSA	3152.46	3168.61

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK OVERLAND FLOW 2ND TRY CUL U-X
PROFILE NUMBER 7, UPSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

U-1;	KU/KD < 0.7 OR > 1.4	:			ALERTED USER
V	; WS TOO LOW	:			USED WSMIN = WSC
V-1;	WS TOO LOW	:			USED WSMIN = WSC
W	; WS TOO LOW	:			USED WSMIN = WSC
W	; WS NOT FOUND BETWEEN	:			USED WSMIN = WSC
		:	WS = 3170.01 & WS = 3175.00;		USED DEL = 0.25
W	; WS NOT FOUND	:			ASSUMED WS = WSC
X	; KU/KD < 0.7 OR > 1.4	:			ALERTED USER

WATER-SURFACE PROFILE FOR: BOONE CREEK OVERLAND FLOW 2ND TRY CUL U-X
 PAGE 1 OF 1, PROFILE NUMBER 7, UPSTREAM COMPUTATIONS

SECID	AT	WS ELEV	LV	HF	HE	EG	V	FN	ACC	REW	ID#
U	AT	5340 / 3158.21	0 / 0.06	3090. /	1540. /	171037. /	1.00 /	-2. /	326.		*IS*
CULEX	AT	5376 / 3158.24	36 / 0.04	2250. /	1326. /	139294. /	1.00 /	-1. /	340.		*XS*
U-1	AT	5790 / 3158.78	414 / 0.43	2250. /	428. /	20572. /	1.00 /	14. /	371.		*XS*
V ^w	AT	5995 / 3161.18	205 / 0.55	2250. /	378. /	20544. /	1.00 /	16. /	277.		*XS*
V-1	AT	6290 / 3164.93	295 / 0.72	2250. /	348. /	18934. /	1.11 /	14. /	227.		*XS*
W ^y	AT	6306 / 3170.01	16 / 0.96	2250. /	286. /	18234. /	1.00 /	55. /	203.		*XS*
X ^z	AT	6356 / 3171.01	50 / 0.10	2510. /	991. /	120020. /	1.04 /	80. /	257.		*XS*

END OF THIS PROFILE

Handwritten notes:
 U-1 = 6677-30000
 SEE DOWNSTREAM

Handwritten notes:
 500
 U-1
 map between V-1 & V

COMPUTED WSC VALUES FOR: BOONE CREEK OVERLAND FLOW 2ND TRY CUL U-X
PROFILE NUMBER 7. UPSTREAM COMPUTATIONS

SECID	V	V-1	W
WSC	3161.06	3164.88	3170.01

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK OVERLAND FLOW 2ND TRY CUL U-X
 PROFILE NUMBER 8, DOWNSTREAM COMPUTATIONS

SECID	ERROR(WARNING) MESSAGE	INTERMEDIATE RESULTS(IF ANY)	ACTION TAKEN
X	WS TOO LOW		ASSUMED WS = WSC
W	WS NOT FOUND BETWEEN	WS = 3170.01 & WS = 3166.10	USED DEL = 0.25
W	WS NOT FOUND BETWEEN	WS = 3170.01 & WS = 3166.10	USED KE = 0.5
W	WS NOT FOUND		ASSUMED WS = WSC
V-1	KU/KD < 0.7 OR > 1.4		ALERTED USER
V-1	SUPERCritical WS		COMPUTED WSA
V	WS NOT FOUND BETWEEN	WS = 3161.06 & WS = 3159.60	USED DEL = 0.25
V	WS NOT FOUND BETWEEN	WS = 3161.06 & WS = 3159.60	USED KE = 0.5
V	WS NOT FOUND		ASSUMED WS = WSC
U-1	WS NOT FOUND BETWEEN	WS = 3158.67 & WS = 3157.50	USED DEL = 0.25
U-1	WS NOT FOUND BETWEEN	WS = 3158.67 & WS = 3157.50	USED KE = 0.5
U-1	WS NOT FOUND		ASSUMED WS = WSC
CULEX	WS NOT FOUND BETWEEN	WS = 3155.29 & WS = 3153.30	USED DEL = 0.25
CULEX	WS NOT FOUND BETWEEN	WS = 3155.29 & WS = 3153.30	USED KE = 0.5
CULEX	WS NOT FOUND		ASSUMED WS = WSC
U	WS NOT FOUND BETWEEN	WS = 3155.04 & WS = 3147.10	USED DEL = 0.25
U	WS NOT FOUND BETWEEN	WS = 3155.04 & WS = 3147.10	USED KE = 0.5
U	WS NOT FOUND		ASSUMED WS = WSC

WATER-SURFACE PROFILE FOR: BOONE CREEK OVERLAND FLOW 2ND TRY CUL U-X
 PAGE 1 OF 1, PROFILE NUMBER 8, DOWNSTREAM COMPUTATIONS

SECID	AT	DISTANCE/	LENGTH/DISCHARGE/	AREA /CONVEYANCE/	ALPHA/	LEW /	REW
WS ELEV /	HV /	HF /	HE /	EG /	V /	FN /	ACC *ID*
X	AT	6356 /	0 / 2510. /	319. / 24500. /	1.15 /	80. /	215.
3166.47 /	1.11 /		/ 3167.58 /	7.86 /	0.92 /		*IS*
H	AT	6306 /	-50 / 2250. /	286. / 18234. /	1.00 /	55. /	203.
3170.01 /	0.96 /*****		***** / 3170.98 /	7.87 /	1.00 /*****		*XS*
V-1	AT	6290 /	-16 / 2250. /	121. / 3321. /	1.08 /	19. /	225.
3163.86 /	5.76 /	1.34 /	0.0 / 3169.62 /	18.52 /	4.42 /	0.018	*XS*
V	AT	5995 /	-295 / 2250. /	347. / 17871. /	1.00 /	16. /	276.
3161.06 /	0.65 /*****		***** / 3161.72 /	6.48 /	0.99 /*****		*XS*
U-1	AT	5790 /	-205 / 2250. /	387. / 17371. /	1.00 /	14. /	371.
3158.67 /	0.53 /*****		***** / 3159.19 /	5.82 /	0.99 /*****		*XS*
CULEX	AT	5376 /	-414 / 2250. /	367. / 17587. /	1.00 /	11. /	318.
3155.29 /	0.58 /*****		***** / 3155.87 /	6.13 /	0.99 /*****		*XS*
U	AT	5340 /	-36 / 3090. /	534. / 34769. /	1.30 /	10. /	318.
3155.04 /	0.67 /*****		***** / 3155.71 /	5.79 /	0.88 /*****		*XS*

END OF THIS PROFILE

500
Down

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 29,DATE= 9/22/77

COMPUTED WSC VALUES FOR: BOONE CREEK OVERLAND FLOW 2ND TRY CUL U-X
PROFILE NUMBER 8, DOWNSTREAM COMPUTATIONS

SECID	U	CULEX	U-1	V	V-1	W	X
WSC	3155.04	3155.29	3158.67	3161.06	3164.88	3170.01	3166.47

COMPUTED WSA VALUES FOR: BOONE CREEK OVERLAND FLOW 2ND TRY CUL U-X
PROFILE NUMBER 8, DOWNSTREAM COMPUTATIONS

SECID	U	V-1
WSA	3152.46	3169.58

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK FLOOD PROFILES X-AG
 PROFILE NUMBER 5, DOWNSTREAM COMPUTATIONS

SECID	ERROR(WARNING) MESSAGE	INTERMEDIATE RESULTS(IF ANY)	ACTION TAKEN
AG	WS TOO LOW		
DUMAG	WS NOT FOUND BETWEEN	WS = 3180.07 & WS = 3176.40	ASSUMED WS = WSC USED DEL = 0.25
DUMAG	WS NOT FOUND BETWEEN	WS = 3180.07 & WS = 3176.40	USED KE = 0.5
DUMAG	WS NOT FOUND		ASSUMED WS = WSC
DUMAF	KU/KD < 0.7 OR > 1.4		ALERTED USER
DUMAF	SUPERCritical WS		COMPUTED WSA
AF-1	SUPERCritical WS		COMPUTED WSA
AF	KU/KD < 0.7 OR > 1.4		ALERTED USER
AE	WS NOT FOUND BETWEEN	WS = 3178.10 & WS = 3172.80	USED DEL = 0.25
AE	WS NOT FOUND BETWEEN	WS = 3178.10 & WS = 3172.80	USED KE = 0.5
AE	WS NOT FOUND		ASSUMED WS = WSC
AD	WS NOT FOUND BETWEEN	WS = 3174.17 & WS = 3169.40	USED DEL = 0.25
AD	WS NOT FOUND BETWEEN	WS = 3174.17 & WS = 3169.40	USED KE = 0.5
AD	WS NOT FOUND		ASSUMED WS = WSC
DUMAD	WS NOT FOUND BETWEEN	WS = 3174.03 & WS = 3169.10	USED DEL = 0.25
DUMAD	WS NOT FOUND BETWEEN	WS = 3174.03 & WS = 3169.10	USED KE = 0.5
DUMAD	WS NOT FOUND		ASSUMED WS = WSC
AC-AD	WS NOT FOUND BETWEEN	WS = 3175.36 & WS = 3169.50	USED DEL = 0.25
AC-AD	WS NOT FOUND BETWEEN	WS = 3175.36 & WS = 3169.50	USED KE = 0.5
AC-AD	WS NOT FOUND		ASSUMED WS = WSC
AC	KU/KD < 0.7 OR > 1.4		ALERTED USER
AC	SUPERCritical WS		COMPUTED WSA
AB	WS NOT FOUND BETWEEN		

AB	;	WS NOT FOUND BETWEEN	;	WS = 3172.32 & WS = 3167.30;	USED DEL = 0.25
			;	WS = 3172.32 & WS = 3167.30;	USED KE = 0.5
			;		ASSUMED WS = WSC
AA	;	WS NOT FOUND BETWEEN	;	WS = 3170.25 & WS = 3165.60;	USED DEL = 0.25
			;	WS = 3170.25 & WS = 3165.60;	USED KE = 0.5
			;		ASSUMED WS = WSC
DUMAA	;	WS NOT FOUND BETWEEN	;	WS = 3170.05 & WS = 3165.40;	USED DEL = 0.25
			;	WS = 3170.05 & WS = 3165.40;	USED KE = 0.5
			;		ASSUMED WS = WSC
Z-AA	;	WS NOT FOUND BETWEEN	;	WS = 3170.70 & WS = 3165.50;	USED DEL = 0.25
			;	WS = 3170.70 & WS = 3165.50;	USED KE = 0.5
			;		ASSUMED WS = WSC
Z-AA	;	WS NOT FOUND	;		COMPUTED WSA
Z	;	SUPERCRITICAL WS	;		ALERTED USER
Y	;	KU/KD < 0.7 OR > 1.4	;		COMPUTED WSA
Y	;	SUPERCRITICAL WS	;		
X	;	WS NOT FOUND BETWEEN	;	WS = 3163.47 & WS = 3159.30;	USED DEL = 0.25
			;	WS = 3163.47 & WS = 3159.30;	USED KE = 0.5
			;		ASSUMED WS = WSC
X	;	WS NOT FOUND	;		

WATER-SURFACE PROFILE FOR: BOONE CREEK FLOOD PROFILES
 PAGE 1 OF 2, PROFILE NUMBER 5, DOWNSTREAM COMPUTATIONS

X-AG *10-92*

SECID	AT	DISTANCE/WS ELEV	LENGTH/HV	DISCHARGE/HF	AREA/HE	CONVEYANCE/EG	ALPHA/V	LEW/FN	REW/ACC	ID*
AG	AT	7492 / 3180.57	0 / 1.89	930. /	84. / 3182.46	5623. / 11.02	1.00 / 0.99	94. /	116. /	*IS*
DUMAG	AT	7460 / 3180.07	-32 / 1.89	930. / *****	84. / *****	5623. / 3181.96	1.00 / 11.02	94. / 0.99	116. / *****	*XS*
DUMAF	AT	7450 / 3177.99	-10 / 3.55	930. / 0.40	62. / 0.0	3850. / 3181.55	1.00 / 15.11	155. / 1.51	175. / 0.014	*XS*
AF-1	AT	7438 / 3177.02	-12 / 3.71	930. / 0.81	60. / 0.0	3319. / 3180.73	1.00 / 15.45	155. / 1.76	180. / 0.003	*XS*
AF	AT	7430 / 3178.46	-8 / 1.94	930. / 0.35	83. / 0.0	5935. / 3180.39	1.00 / 11.16	155. / 1.00	176. / -0.013	*XS*
AE	AT	7360 / 3178.10	-70 / 1.84	930. / *****	86. / *****	5977. / 3179.93	1.00 / 10.87	43. / 0.99	66. / *****	*XS*
AD	AT	7065 / 3174.17	-295 / 1.42	930. / *****	97. / *****	6284. / 3175.59	1.00 / 9.56	100. / 0.99	134. / *****	*XS*
DUMAD	AT	7031 / 3174.03	-34 / 1.40	930. / *****	98. / *****	6339. / 3175.42	1.01 / 9.46	95. / 1.05	134. / *****	*XS*
AC-AD	AT	7021 / 3175.36	-10 / 0.66	930. / *****	179. / *****	9312. / 3176.01	1.55 / 5.21	-11. / 0.95	113. / *****	*XS*
AC	AT	7005 / 3172.38	-16 / 3.22	930. / 0.41	65. / 0.0	3624. / 3175.60	1.00 / 14.39	69. / 1.64	96. / 0.004	*XS*
AB	AT	6880 / 3172.32	-125 / 1.80	930. / *****	86. / *****	5772. / 3174.13	1.00 / 10.77	4. / 0.99	28. / *****	*XS*
AA	AT	6774 / 3170.25	-106 / 1.77	930. / *****	87. / *****	6180. / 3172.02	1.00 / 10.67	91. / 1.00	115. / *****	*XS*
DUMAA	AT	6750 / 3170.05	-24 / .77	930. / *****	87. / *****	6183. / 3171.82	1.00 / 10.67	91. / 1.00	115. / *****	*XS*
Z-AA	AT	6738 / 3170.70	-12 / 2.56	930. / *****	72. / *****	3739. / 3173.26	1.00 / 12.83	85. / 0.99	99. / *****	*XS*
Z	AT	6705 / 3168.92	-33 / 2.73	930. / 1.61	70. / 0.0	4743. / 3171.65	1.00 / 13.25	82. / 1.20	101. / 0.004	*XS*

not possible

WATER-SURFACE PROFILE FOR: BOONE CREEK FLOOD PROFILES X-AG
PAGE 2 OF 2, PROFILE NUMBER 5, DOWNSTREAM COMPUTATIONS

=====																	
SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW								
NS	ELEV	HV	HF	HE	EG	V	FN	ACC	ID	*							
=====																	
Y	AT	6550	/	-155	/	930.	/	141.	/	8416.	/	1.29	/	32.	/	141.	
		3167.42	/	0.87	/	3.36	/	0.0	/	3168.29	/	6.58	/	1.08	/	0.002	*XS*

X	AT	6356	/	-194	/	930.	/	90.	/	6239.	/	1.00	/	184.	/	211.	
		3163.47	/	1.67	/	*****	/	*****	/	3165.14	/	10.37	/	1.00	/	*****	*XS*

END OF THIS PROFILE

COMPUTED WSC VALUES FOR: BOONE CREEK FLOOD PROFILES X-AG
PROFILE NUMBER 5, DOWNSTREAM COMPUTATIONS

SECID	X	Y	Z	Z-AA	DUMAA	AA	AB	AC
WSC	3163.47	3167.55	3169.44	3170.70	3170.05	3170.25	3172.32	3173.39

SECID	AC-AD	DUMAD	AD	AE	AF	AF-1	DUMAF	DUMAG
WSC	3175.36	3174.03	3174.17	3178.10	3178.46	3178.13	3179.06	3180.07

SECID	AG
WSC	3180.57

COMPUTED WSA VALUES FOR: BOONE CREEK FLOOD PROFILES X-AG
PROFILE NUMBER 5, DOWNSTREAM COMPUTATIONS

SECID	Y	Z	AC	AF-1	DUMAF
WSA	3167.70	3170.03	3175.18	3180.04	3180.66

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK FLOOD PROFILES X-AG
 PROFILE NUMBER 6; DOWNSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

AG ; WS TOO LOW		ASSUMED WS = WSC
DUMAG; WS NOT FOUND BETWEEN	; WS = 3181.77 & WS = 3176.40;	USED DEL = 0.25
DUMAG; WS NOT FOUND BETWEEN	; WS = 3181.77 & WS = 3176.40;	USED KE = 0.5
DUMAG; WS NOT FOUND		ASSUMED WS = WSC
DUMAF; SUPERCRITICAL WS		COMPUTED WSA
AF-1; SUPERCRITICAL WS		COMPUTED WSA
AF ; KU/KD < 0.7 OR > 1.4		ALERTED USER
AF ; SUPERCRITICAL WS		COMPUTED WSA
AE ; WS NOT FOUND BETWEEN	; WS = 3180.38 & WS = 3172.80;	USED DEL = 0.25
AE ; NOT FOUND BETWEEN	; WS = 3180.38 & WS = 3172.80;	USED KE = 0.5
AE ; WS NOT FOUND		ASSUMED WS = WSC
AD ; SUPERCRITICAL WS		COMPUTED WSA
DUMAD; WS NOT FOUND BETWEEN	; WS = 3175.50 & WS = 3169.10;	USED DEL = 0.25
DUMAD; WS NOT FOUND BETWEEN	; WS = 3175.50 & WS = 3169.10;	USED KE = 0.5
DUMAD; WS NOT FOUND		ASSUMED WS = WSC
AC-AD; WS NOT FOUND BETWEEN	; WS = 3175.94 & WS = 3169.50;	USED DEL = 0.25
AC-AD; WS NOT FOUND BETWEEN	; WS = 3175.94 & WS = 3169.50;	USED KE = 0.5
AC-AD; WS NOT FOUND		ASSUMED WS = WSC
AC ; SUPERCRITICAL WS		COMPUTED WSA
AB ; WS NOT FOUND BETWEEN	; WS = 3174.55 & WS = 3167.30;	USED DEL = 0.25
AB ; WS NOT FOUND BETWEEN	; WS = 3174.55 & WS = 3167.30;	USED KE = 0.5
AB ; WS NOT FOUND		ASSUMED WS = WSC
AB ; SUPERCRITICAL WS		

DUMAA; WS NOT FOUND BETWEEN
DUMAA; WS NOT FOUND BETWEEN
DUMAA; WS NOT FOUND
Z-AA ; WS NOT FOUND BETWEEN
Z-AA ; WS NOT FOUND BETWEEN
Z-AA ; WS NOT FOUND
Z ; KU/KD < 0.7 OR > 1.4
Y ; SUPERCRITICAL WS
X ; WS NOT FOUND BETWEEN
X ; WS NOT FOUND BETWEEN
X ; WS NOT FOUND

; WS = 3171.92 & WS = 3165.40;
; WS = 3171.92 & WS = 3165.40;
;
; WS = 3173.96 & WS = 3165.50;
; WS = 3173.96 & WS = 3165.50;
;
;
; WS = 3165.75 & WS = 3159.30;
; WS = 3165.75 & WS = 3159.30;
;

COMPUTED WSA
USED DEL = 0.25
USED KE = 0.5
ASSUMED WS = WSC
USED DEL = 0.25
USED KE = 0.5
ASSUMED WS = WSC
ALERTED USER
COMPUTED WSA
USED DEL = 0.25
USED KE = 0.5
ASSUMED WS = WSC

WATER-SURFACE PROFILE FOR: BOONE CREEK FLOOD PROFILES X-AG
 PAGE 1 OF 2, PROFILE NUMBER 6, DOWNSTREAM COMPUTATIONS

SECID	AT	WS ELEV	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
			HV	HF	HE	EG	V	FN	ACC
									ID
AG	AT	7492 / 3182.27	0 / 2.15	1520. /	129. / 3184.42	9469. / 11.75	1.00 / 1.00	91. /	121. / *IS*
DUMAG	AT	7460 / 3181.77	-32 / 2.15	1520. /	129. / 3183.92	9469. / 11.75	1.00 / 1.00	91. /	121. / *XS*
DUMAF	AT	7450 / 3179.57	-10 / 3.99	1520. /	95. / 3183.56	6986. / 16.01	1.00 / 1.40	153. /	177. / 0.008 *XS*
AF-1	AT	7438 / 3178.05	-12 / 4.81	1520. /	86. / 3182.86	5775. / 17.58	1.00 / 1.68	154. /	180. / 0.011 *XS*
AF	AT	7430 / 3179.80	-8 / 2.68	1520. /	116. / 3182.49	8858. / 13.13	1.00 / 1.12	151. /	179. / 0.016 *XS*
AE	AT	7360 / 3180.38	-70 / 1.45	1520. /	166. / 3181.83	13327. / 9.06	1.14 / 1.06	4. /	69. / *XS*
AD	AT	7065 / 3175.16	-295 / 1.86	1520. /	151. / 3177.03	12681. / 10.07	1.18 / 1.37	62. /	138. / 0.016 *XS*
DUMAD	AT	7031 / 3175.50	-34 / 1.16	1520. /	205. / 3176.66	14210. / 7.40	1.36 / 1.12	30. /	140. / *XS*
AC-AD	AT	7021 / 3175.94	-10 / 0.75	1520. /	255. / 3176.68	14344. / 5.97	1.34 / 0.89	-15. /	120. / *XS*
AC	AT	7005 / 3174.71	-16 / 1.75	1520. /	159. / 3176.45	11309. / 9.57	1.22 / 1.39	15. /	103. / 0.004 *XS*
AB	AT	6880 / 3174.55	-125 / 0.75	1520. /	242. / 3175.30	14690. / 6.29	1.23 / 0.94	0. /	140. / *XS*
AA	AT	6774 / 3171.81	-106 / 1.96	1520. /	140. / 3173.77	10882. / 10.86	1.07 / 1.14	74. /	120. / 0.002 *XS*
DUMAA	AT	6750 / 3171.92	-24 / 1.61	1520. /	155. / 3173.53	12480. / 9.81	1.08 / 1.02	74. /	121. / *XS*
Z-AA	AT	6738 / 3173.96	-12 / 0.62	1520. /	254. / 3174.58	13891. / 5.98	1.12 / 0.93	40. /	215. / *XS*
Z	AT	6705 / 3171.14	-33 / 2.83	1520. /	113. / 3173.97	9267. / 13.50	1.00 / 0.99	82. /	102. / 0.016 *XS*

Jump possible

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WATER-SURFACE PROFILE FOR: BOONE CREEK FLOOD PROFILES X-AG
PAGE 2 OF 2, PROFILE NUMBER 6, DOWNSTREAM COMPUTATIONS

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=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
Y AT 6550 / -155 / 1520. / 148. / 8825. / 1.28 / 30. / 141.
3167.49 / 2.11 / 4.38 / 0.0 / 3169.59 / 10.29 / 1.66 / -0.001 *XS*
-----
X AT 6356 / -194 / 1520. / 231. / 16508. / 1.28 / 80. / 214.
3165.75 / 0.86 /***** /***** / 3166.61 / 6.57 / 0.94 /***** *XS*
-----
```

END OF THIS PROFILE

COMPUTED WSC VALUES FOR: BOONE CREEK FLOOD PROFILES X-AG
PROFILE NUMBER 6, DOWNSTREAM COMPUTATIONS

SECID	X	Y	Z	Z-AA	DUMAA	AA	AB	AC
WSC	3165.75	3168.20	3171.14	3173.96	3171.92	3172.12	3174.55	3175.29
SECID	AC-AD	DUMAD	AD	AE	AF	AF-1	DUMAF	DUMAG
WSC	3175.94	3175.50	3175.74	3180.38	3181.30	3179.59	3181.90	3181.77
SECID	AG							
WSC	3182.27							

COMPUTED WSA VALUES FOR: BOONE CREEK FLOOD PROFILES X-AG
PROFILE NUMBER 6, DOWNSTREAM COMPUTATIONS

SECID	Y	Z	AA	AC	AD	AF	AF-1	DUMAF
WSA	3169.33	3170.03	3172.45	3175.84	3176.42	3182.23	3182.55	3183.41

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK FLOOD PROFILES X-AG
 PROFILE NUMBER 7, DOWNSTREAM COMPUTATIONS

SECID	ERROR(WARNING) MESSAGE	INTERMEDIATE RESULTS(IF ANY)	ACTION TAKEN
AG	WS TOO LOW		ASSUMED WS = WSC
DUMAG	WS NOT FOUND BETWEEN	WS = 3182.30 & WS = 3176.40	USED DEL = 0.25
DUMAG	WS NOT FOUND BETWEEN	WS = 3182.30 & WS = 3176.40	USED KE = 0.5
DUMAG	WS NOT FOUND		ASSUMED WS = WSC
DUMAF	SUPERCritical WS		COMPUTED WSA
AF-1	SUPERCritical WS		COMPUTED WSA
AF	KU/KD < 0.7 OR > 1.4		ALERTED USER
AF	SUPERCritical WS		COMPUTED WSA
AE	WS NOT FOUND BETWEEN	WS = 3180.92 & WS = 3172.80	USED DEL = 0.25
AE	WS NOT FOUND BETWEEN	WS = 3180.92 & WS = 3172.80	USED KE = 0.5
AE	WS NOT FOUND		ASSUMED WS = WSC
AD	SUPERCritical WS		COMPUTED WSA
DUMAD	KU/KD < 0.7 OR > 1.4		ALERTED USER
DUMAD	SUPERCritical WS		COMPUTED WSA
AC-AD	WS NOT FOUND BETWEEN	WS = 3176.11 & WS = 3169.50	USED DEL = 0.25
AC-AD	WS NOT FOUND BETWEEN	WS = 3176.11 & WS = 3169.50	USED KE = 0.5
AC-AD	WS NOT FOUND		ASSUMED WS = WSC
AC	SUPERCritical WS		COMPUTED WSA
AB	WS NOT FOUND BETWEEN	WS = 3174.74 & WS = 3167.30	USED DEL = 0.25
AB	WS NOT FOUND BETWEEN	WS = 3174.74 & WS = 3167.30	USED KE = 0.5
AB	WS NOT FOUND		ASSUMED WS = WSC
AA	WS NOT FOUND BETWEEN	WS = 3172.57 & WS = 3165.60	USED DEL = 0.25
AA	WS NOT FOUND BETWEEN	WS = 3172.57 & WS = 3165.60	

AA	;	WS NOT FOUND	;		USED KE = 0.5
DUMAA	;	WS NOT FOUND BETWEEN	;		ASSUMED WS = WSC
	;		;	WS = 3172.38 & WS = 3165.40	USED DEL = 0.25
DUMAA	;	WS NOT FOUND BETWEEN	;		USED KE = 0.5
	;		;	WS = 3172.38 & WS = 3165.40	ASSUMED WS = WSC
DUMAA	;	WS NOT FOUND	;		USED DEL = 0.25
Z-AA	;	WS NOT FOUND BETWEEN	;		USED KE = 0.5
	;		;	WS = 3174.09 & WS = 3165.50	ASSUMED WS = WSC
Z-AA	;	WS NOT FOUND BETWEEN	;		USED DEL = 0.25
	;		;	WS = 3174.09 & WS = 3165.50	USED KE = 0.5
Z-AA	;	WS NOT FOUND	;		ASSUMED WS = WSC
Z	;	WS NOT FOUND BETWEEN	;		USED DEL = 0.25
	;		;	WS = 3171.79 & WS = 3164.80	USED KE = 0.5
Z	;	WS NOT FOUND BETWEEN	;		ASSUMED WS = WSC
	;		;	WS = 3171.79 & WS = 3164.80	USED DEL = 0.25
Z	;	WS NOT FOUND	;		USED KE = 0.5
Y	;	SUPERCritical WS	;		ASSUMED WS = WSC
X	;	WS NOT FOUND BETWEEN	;		COMPUTED WSA
	;		;	WS = 3165.98 & WS = 3159.30	USED DEL = 0.25
X	;	WS NOT FOUND BETWEEN	;		USED KE = 0.5
	;		;	WS = 3165.98 & WS = 3159.30	ASSUMED WS = WSC
X	;	WS NOT FOUND	;		

WATER-SURFACE PROFILE FOR: BOONE CREEK FLOOD PROFILES X-AG
 PAGE 1 OF 2, PROFILE NUMBER 7, DOWNSTREAM COMPUTATIONS

=====										
SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW	
WS	ELEV	HV	HF	HE	EG	V	FN	ACC	ID	
=====										
AG	AT	7492	0	1780.	145.	11214.	1.00	91.	122.	
		3182.80	2.33		3185.13	12.25	1.00			*IS*

DUMAG	AT	7460	-32	1780.	145.	11214.	1.00	91.	122.	
		3182.30	2.33	*****	3184.63	12.25	1.00	*****		*XS*

DUMAF	AT	7450	-10	1780.	109.	8288.	1.00	152.	178.	
		3180.17	4.12	0.34	3184.28	16.27	1.40	0.006		*XS*

AF-1	AT	7438	-12	1780.	98.	7008.	1.00	154.	180.	
		3178.52	5.10	0.65	3183.62	18.11	1.63	0.009		*XS*

AF	AT	7430	-8	1780.	129.	10049.	1.00	0.	180.	
		3180.25	2.98	0.36	3183.24	13.82	1.33	0.020		*XS*

AE	AT	7360	-70	1780.	205.	16623.	1.15	0.	70.	
		3180.92	1.35	*****	3182.27	8.70	0.96	*****		*XS*

AD	AT	7065	-295	1780.	168.	11925.	1.24	51.	139.	
		3175.38	2.16	4.72	3177.54	10.57	1.50	0.015		*XS*

DUMAD	AT	7031	-34	1780.	253.	17231.	1.49	0.	142.	
		3175.86	1.14	0.52	3177.00	7.03	1.13	0.011		*XS*

AC-AD	AT	7021	-10	1780.	278.	16161.	1.29	-15.	122.	
		3176.11	0.82	*****	3176.93	6.40	0.90	*****		*XS*

AC	AT	7005	-16	1780.	215.	15089.	1.37	0.	111.	
		3175.25	1.47	0.21	3176.71	8.30	1.23	0.012		*XS*

AB	AT	6880	-125	1780.	268.	16823.	1.19	0.	141.	
		3174.74	0.81	*****	3175.55	6.63	0.92	*****		*XS*

AA	AT	6774	-103	1780.	179.	15112.	1.09	74.	130.	
		3172.57	1.68	*****	3174.25	9.94	1.03	*****		*XS*

DUMAA	AT	6750	-24	1780.	180.	15187.	1.09	74.	130.	
		3172.38	1.66	*****	3174.05	9.90	1.02	*****		*XS*

Z-AA	AT	6738	-12	1780.	278.	15695.	1.09	40.	219.	
		3174.09	0.70	*****	3174.79	6.40	0.95	*****		*XS*

Z	AT	6705	-33	1780.	125.	10748.	1.00	82.	102.	
		3171.79	3.14	*****	3174.92	14.20	1.00	*****		*XS*

long profile

WATER-SURFACE PROFILE FOR: BONE CREEK FLOOD PROFILES X-AG
PAGE 2 OF 2, PROFILE NUMBER 7, DOWNSTREAM COMPUTATIONS

SECTID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
NS ELEV	HV	HF	HE	EG	V	FN	ACC	ID*	
Y	AT	6550	-155	1780	158	9480	1.27	28	142
		3167.59	2.51	4.82	0.0	3170.10	11.28	1.76	0.005
X	AT	6356	-194	1780	260	18868	1.24	80	214
		3165.98	0.90	*****	*****	3166.89	6.85	0.91	*****

END OF THIS PROFILE

COMPUTED WSC VALUES FOR: BOONE CREEK FLOOD PROFILES X-AG
 PROFILE NUMBER 7, DOWNSTREAM COMPUTATIONS

SECID	X	Y	Z	Z-AA	DUMAA	AA	AB	AC
WSC	3165.98	3168.41	3171.79	3174.09	3172.38	3172.57	3174.74	3175.60
SECID	AC-AD	DUMAD	AD	AE	AF	AF-1	DUMAF	DUMAG
WSC	3176.11	3176.05	3176.30	3180.92	3181.50	3181.22	3182.10	3182.30
SECID	AG							
WSC	3182.80							

COMPUTED WSA VALUES FOR: BOONE CREEK FLOOD PROFILES X-AG
 PROFILE NUMBER 7, DOWNSTREAM COMPUTATIONS

SECID	Y	Z	AA	AC	DUMAD	AD	AF	AF-1
WSA	3169.84	3170.03	3172.45	3175.96	3176.26	3177.10	3183.07	3183.40
SECID	DUMAF							
WSA	3184.16							

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK FLOOD PROFILES X-AG
 PROFILE NUMBER 8, DOWNSTREAM COMPUTATIONS

SECID	ERROR(WARNING) MESSAGE	INTERMEDIATE RESULTS(IF ANY)	ACTION TAKEN
AG	WS TOO LOW		ASSUMED WS = WSC
DUMAG	SUPERCritical WS		COMPUTED WSA
DUMAF	KU/KD < 0.7 OR > 1.4		ALERTED USER
DUMAF	SUPERCritical WS		COMPUTED WSA
DUMAF	LEFT BANK EXTENDED		ALERTED USER
AF-1	SUPERCritical WS		COMPUTED WSA
AF-1	LEFT BANK EXTENDED		ALERTED USER
AF	SUPERCritical WS		COMPUTED WSA
AE	WS NOT FOUND BETWEEN	WS = 3181.67 & WS = 3172.80;	USED DEL = 0.25
AE	WS NOT FOUND BETWEEN	WS = 3181.67 & WS = 3172.80;	USED KE = 0.5
AE	WS NOT FOUND		ASSUMED WS = WSC
AD	SUPERCritical WS		COMPUTED WSA
DUMAD	SUPERCritical WS		COMPUTED WSA
AC-AD	SUPERCritical WS		COMPUTED WSA
AB	WS NOT FOUND BETWEEN	WS = 3175.30 & WS = 3167.30;	USED DEL = 0.25
AB	WS NOT FOUND BETWEEN	WS = 3175.30 & WS = 3167.30;	USED KE = 0.5
AB	WS NOT FOUND		ASSUMED WS = WSC
AA	SUPERCritical WS		COMPUTED WSA
DUMAA	SUPERCritical WS		COMPUTED WSA
Z-AA	WS NOT FOUND BETWEEN	WS = 3174.54 & WS = 3165.50;	USED DEL = 0.25
Z-AA	WS NOT FOUND BETWEEN	WS = 3174.54 & WS = 3165.50;	USED KE = 0.5
Z-AA	WS NOT FOUND		ASSUMED WS = WSC
Z	WS NOT FOUND BETWEEN	WS = 3174.86 & WS = 3164.80;	USED DEL = 0.25
Z	WS NOT FOUND BETWEEN	WS = 3174.86 & WS = 3164.80;	

Z ; WS NOT FOUND
Y ; KU/KD < 0.7 OR > 1.4
Y ; SUPERCRITICAL WS
X ; WS NOT FOUND BETWEEN
X ; WS NOT FOUND BETWEEN
X ; WS NOT FOUND

WS = 3166.47 & WS = 3159.30
WS = 3166.47 & WS = 3159.30

USED KE = 0.5
ASSUMED WS = WSC
ALERTED USER
COMPUTED WSA
USED DEL = 0.25
USED KE = 0.5
ASSUMED WS = WSC

WATER-SURFACE PROFILE FOR: PINE CREEK FLOOD PROFILES X-AG
 PAGE 1 OF 2, PROFILE NUMBER: DOWNSTREAM COMPUTATIONS

SECID	AT	WS ELEV	AT	HV	HF	HE	EG	CONVEYANCE	ALPHA	LEW	REW	ACC	ID				
AG	AT	7492	/	0	/	2510.	/	325.	/	25087.	/	1.22	/	0.	/	125.	
		3184.87	/	1.13	/		/	3186.00	/	7.72	/	0.93	/		/		*IS*
DUMAG	AT	7460	/	-32	/	2510.	/	276.	/	20772.	/	1.26	/	0.	/	125.	
		3183.98	/	1.62	/	0.39	/	0.0	/	3185.60	/	9.09	/	1.21	/	0.013	*XS*
DUMAF	AT	7450	/	-10	/	2510.	/	180.	/	12662.	/	1.31	/	0.	/	181.	
		3181.42	/	3.95	/	0.24	/	0.0	/	3185.36	/	13.91	/	2.54	/	-0.006	*XS*
AF-1	AT	7438	/	-12	/	2510.	/	147.	/	12225.	/	1.01	/	0.	/	180.	
		3180.30	/	4.57	/	0.49	/	0.0	/	3184.87	/	17.05	/	1.67	/	0.006	*XS*
AF	AT	7430	/	-8	/	2510.	/	189.	/	13108.	/	1.34	/	0.	/	181.	
		3180.88	/	3.67	/	0.31	/	0.0	/	3184.55	/	13.27	/	2.40	/	0.009	*XS*
AE	AT	7360	/	-70	/	2510.	/	257.	/	22382.	/	1.09	/	0.	/	71.	
		3181.67	/	1.62	/	*****	/	*****	/	3183.29	/	9.77	/	0.94	/	*****	*XS*
AD	AT	7065	/	-295	/	2510.	/	248.	/	17150.	/	1.48	/	0.	/	142.	
		3176.08	/	2.37	/	4.84	/	0.0	/	3178.45	/	10.13	/	1.65	/	-0.010	*XS*
DUMAD	AT	7031	/	-34	/	2510.	/	291.	/	20219.	/	1.47	/	0.	/	143.	
		3176.13	/	1.69	/	0.62	/	0.0	/	3177.82	/	8.61	/	1.29	/	0.012	*XS*
AC-AD	AT	7021	/	-10	/	2510.	/	298.	/	17767.	/	1.25	/	-15.	/	124.	
		3176.26	/	1.38	/	0.18	/	0.0	/	3177.64	/	8.42	/	1.14	/	0.013	*XS*
AC	AT	7005	/	-16	/	2510.	/	331.	/	25182.	/	1.33	/	0.	/	125.	
		3176.23	/	1.18	/	0.23	/	0.0	/	3177.41	/	7.58	/	0.95	/	-0.005	*XS*
AB	AT	6880	/	-125	/	2510.	/	360.	/	23635.	/	1.18	/	0.	/	178.	
		3175.30	/	0.89	/	*****	/	*****	/	3176.19	/	6.97	/	0.94	/	*****	*XS*
AA	AT	6774	/	-106	/	2510.	/	342.	/	28667.	/	1.36	/	74.	/	234.	
		3174.05	/	1.14	/	0.99	/	0.0	/	3175.20	/	7.35	/	1.03	/	0.011	*XS*
DUMAA	AT	6750	/	-24	/	2510.	/	337.	/	28255.	/	1.36	/	74.	/	234.	
		3173.83	/	1.17	/	0.19	/	0.0	/	3175.00	/	7.45	/	1.05	/	0.010	*XS*
Z-AA	AT	6738	/	-12	/	2510.	/	366.	/	22471.	/	1.07	/	40.	/	251.	
		3174.54	/	0.78	/	*****	/	*****	/	3175.32	/	6.86	/	0.95	/	*****	*XS*
Z	AT	6705	/	-33	/	2510.	/	344.	/	26586.	/	1.34	/	38.	/	260.	
		3174.86	/	1.11	/	*****	/	*****	/	3175.97	/	7.30	/	0.98	/	*****	*XS*

WATER-SURFACE PROFILE FOR: BOONE CREEK FLOOD PROFILES X-AG
PAGE 2 OF 2, PROFILE NUMBER 8, DOWNSTREAM COMPUTATIONS

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SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV		HV	HF	HE	EG	V	FN	ACC	*ID*
Y	AT	6550	-155	2510.	164.	9876.	1.26	26.	142.
		3167.65	4.60	3.72	0.0	3172.24	15.33	2.39	0.006 *XS*
X	AT	6356	-194	2510.	319.	24500.	1.15	80.	215.
		3166.47	1.11	*****	*****	3167.58	7.86	0.92	***** *XS*

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USE 3172.1
1.11

END OF THIS PROFILE

COMPUTED WSC VALUES FOR: BOONE CREEK FLOOD PROFILES X-AG
PROFILE NUMBER 8, DOWNSTREAM COMPUTATIONS

SECID	X	Y	Z	Z-AA	DUMAA	AA	AB	AC
WSC	3166.47	3168.94	3174.86	3174.54	3173.95	3174.16	3175.30	3176.23
SECID	AC-AD	DUMAD	AD	AE	AF	AF-1	DUMAF	DUMAG
WSC	3176.55	3176.58	3176.86	3181.67	3182.01	3182.05	3182.61	3184.37
SECID	AG							
WSC	3184.87							

COMPUTED WSA VALUES FOR: BOONE CREEK FLOOD PROFILES X-AG
PROFILE NUMBER 8, DOWNSTREAM COMPUTATIONS

SECID	Y	Z	DUMAA	AA	AC	AC-AD	DUMAD	AD
WSA	3172.11	3170.03	3174.05	3174.24	3175.96	3176.91	3177.15	3178.02
SECID	AF	AF-1	DUMAF	DUMAG				
WSA	3184.40	3184.67	3185.22	3184.82				

COMPUTED WSC VALUES FOR: BOONE CREEK FLOOD PROFILES X-AG
PROFILE NUMBER 4, UPSTREAM COMPUTATIONS

SECID	Z	AE	DUMAG
WSC	3174.86	3181.67	3184.37

*** INPUT CARD PRINTOUT ***

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1      1 BOONE CREEK      FLOOD PROFILES      X-AG  18  8 02 99 10
2      2 316922 317002 317031 317100 -99999 -99999 -99999 -99999
3      700 X      1 13 3 3160 6356 99 99
4      701      930 1520 1720 2510 930 1520 1780 2510
5      705      80 1 31780 80 1 31654 100 1 31649 165 1 31647 171 1 31684
5      706      178 2 31681 190 2 31593 198 2 31591 206 2 31594 216 2 31677
5      707      240 3 31694 264 3 31717 290 3 31755
6      710 1 2 035 035 1 2 045 045 1 2 035 035
3      800 Y      0 21 3 3164 6550 99 99
5      805      0 1 31800 0 1 31687 50 1 31667 100 1 31665 108 1 31696
5      806      115 2 31697 121 2 31628 123 2 31623 126 2 31620 130 2 31620
5      807      133 2 31623 135 2 31641 137 2 31647 143 2 31685 150 3 31703
5      808      200 3 31712 235 3 31716 243 3 31729 247 3 31728 270 3 31729
5      809      400 3 31770
6      810 1 2 035 035 1 2 045 045 1 2 035 035
3      900 Z      0 20 3 3166 6705 99 99
5      905      20 1 31850 20 1 31766 27 1 31766 51 1 31727 82 2 31727
5      906      82 2 31659 84 2 31649 90 2 31648 94 2 31649 99 2 31655
5      907      100 2 31675 102 2 31721 105 2 31721 105 3 31790 180 3 31790
5      908      180 3 31736 200 3 31734 219 3 31741 250 3 31745 375 3 31790
6      910 1 2 040 040 1 2 045 045 1 2 035 035
3     1000 Z-AA 0 15 3 3166 6738 99 99
5     1005      40 1 31850 40 1 31727 85 2 31727 85 2 31654 92 2 31655
5     1006      95 2 31653 97 2 31659 99 2 31659 99 3 31727 102 3 31727
5     1007      150 3 31734 200 3 31734 219 3 31741 250 3 31745 375 3 31790
6     1010 1 2 030 030 1 2 060 060 1 2 030 030
3     1100 DUMAA 0 18 3 3167 6750 99 99
5     1105      74 1 31800 74 1 31714 90 2 31705 94 2 31671 96 2 31656
5     1106      101 2 31652 106 2 31656 110 2 31659 116 2 31706 120 3 31716
5     1107      144 3 31734 145 3 31729 200 3 31730 209 3 31732 210 3 31736
5     1108      230 3 31734 240 3 31746 365 3 31798
6     1110 1 2 035 035 1 2 045 045 1 2 035 035
3     1200 AA 0 18 3 3167 6774 99 99
5     1205      74 1 31800 74 1 31716 90 2 31707 94 2 31673 96 2 31658
5     1206      101 2 31654 106 2 31659 110 2 31661 116 2 31708 120 3 31718
5     1207      144 3 31736 145 3 31731 200 3 31732 209 3 31734 210 3 31730
5     1208      230 3 31736 240 3 31748 365 3 31800
6     1210 1 2 035 035 1 2 045 045 1 2 035 035
3     1300 AB 0 21 2 3169 6880 99 99
5     1305      0 1 31800 0 1 31731 3 1 31731 4 1 31739 4 1 31690
5     1306      6 1 31682 7 1 31676 14 1 31673 20 1 31671 21 1 31705
5     1307      32 1 31735 37 2 31740 38 2 31735 70 2 31738 108 2 31735
5     1308      109 2 31740 134 2 31736 143 2 31750 149 2 31749 170 2 31750
5     1309      300 2 31800
6     1310 1 2 045 045 1 2 035 035

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Z - AI

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8
3	1400	AC	0	15	3	3170	7005	99 99
5	1405		0	1	31850	0	1	31750 30 1 31744 65 2 31739 72 2 31715
5	1406		80	2	31697	89	2	31690 91 2 31689 95 2 31693 97 3 31740
5	1407		101	3	31746	120	3	31758 140 3 31775 163 3 31780 250 3 31840
6	1410	1	2	045	045	1	2	045 045 1 2 035 035
3	1500	AC-AD	0	16	3	3171	7021	99 99
5	1505		-15	1	31840	-15	1	31755 0 1 31750 30 1 31744 65 1 31739
5	1506		77	1	31741	78	2	31741 78 2 31700 79 2 31698 86 2 31696
5	1507		92	2	31693	92	3	31741 97 3 31741 140 3 31775 163 3 31780
5	1508		250	3	31840			
6	1510	1	2	045	045	1	2	045 045 1 2 035 035
3	1600	DUMAD	0	14	3	3171	7031	99 99
5	1605		0	1	31850	0	1	31757 30 1 31755 65 1 31748 100 2 31739
5	1606		110	2	31712	113	2	31709 115 2 31694 117 2 31689 122 2 31690
5	1607		123	2	31694	128	2	31713 134 3 31740 155 3 31791
6	1610	1	2	045	045	1	2	045 045 1 2 035 035
3	1700	AD	0	18	3	3171	7065	99 99
5	1705		0	1	31850	0	1	31760 30 1 31758 65 1 31751 100 2 31742
5	1706		104	2	31730	110	2	31715 113 2 31712 115 2 31697 117 2 31692
5	1707		122	2	31693	123	2	31697 130 2 31717 134 3 31743 155 3 31790
5	1708		164	3	31794	187	3	31795 275 3 31840
6	1710	1	2	045	045	1	2	045 045 1 2 035 035
3	1800	AE	0	15	2	3174	7360	99 99
5	1805		0	1	31920	0	1	31806 10 1 31801 20 1 31798 30 1 31797
5	1806		40	2	31791	45	2	31773 49 2 31729 52 2 31728 56 2 31726
5	1807		61	2	31729	61	2	31745 69 2 31805 72 2 31826 85 2 31917
6	1810	1	2	035	035	1	2	045 045
3	1900	AF	0	16	3	3175	7430	99 99
5	1905		0	1	31847	0	1	31802 50 1 31805 113 2 31808 119 2 31815
5	1906		128	2	31818	140	2	31818 150 3 31803 155 3 31784 156 3 31741
5	1907		158	3	31738	160	3	31738 172 3 31745 177 3 31792 182 3 31812
5	1908		162	3	31881			
6	1910	1	2	035	035	1	2	040 040 1 2 045 045
3	2000	AF-1	0	15	2	3175	7438	99 99
5	2005		0	1	31847	0	1	31802 50 1 31805 115 1 31830 152 2 31860
5	2006		152	2	31795	154	2	31793 156 2 31743 161 2 31743 156 2 31739
5	2007		170	2	31745	176	2	31750 180 2 31762 180 2 31879 182 2 31881
6	2010	1	2	035	035	1	2	045 045
3	2100	DUMAF	0	16	3	3176	7450	99 99
5	2105		0	1	31853	0	1	31808 50 1 31811 113 2 31814 119 2 31821
5	2106		128	2	31824	140	2	31824 150 3 31809 155 3 31790 156 3 31747
5	2107		158	3	31744	168	3	31744 172 3 31751 177 3 31798 182 3 31818
5	2108		182	3	31887			
6	2110	1	2	035	035	1	2	040 040 1 2 045 045
3	2151	DUMAG	0	21	3	3178	7460	99 99

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8			
5	2154	-100	1 31895	0	1 31847	0	1 31830	9	1 31829	9	1 31847
5	2155	10	1 31837	65	1 31830	73	1 31830	73	1 31827	90	1 31825
5	2156	91	2 31830	91	2 31808	94	2 31803	94	2 31763	101	2 31762
5	2157	107	2 31762	116	2 31763	116	2 31803	121	2 31817	128	3 31860
5	2158	133	3 31883								
6	2164	1	2 035 035	1	2 045 045	1	2 045 045				
3	2200	AG	0	21	3 3178	7492	99	99			
5	2205	-100	1 31900	0	1 31852	0	1 31835	9	1 31834	9	1 31852
5	2206	10	1 31842	65	1 31835	73	1 31835	73	1 31832	90	1 31830
5	2207	91	2 31835	91	2 31813	94	2 31808	94	2 31768	101	2 31767
5	2208	107	2 31767	116	2 31768	116	2 31808	121	2 31822	128	3 31865
5	2209	133	3 31888								
6	2210	1	2 035 035	1	2 045 045	1	2 045 045				

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 4, DATE= 9/24/77

INPUT SUMMARY FOR: BOONE CREEK FLOOD PROFILES X-AG

18 CROSS SECTIONS SPECIFIED (OR ASSUMED)

FOUND 17 TYPE 3 CARDS

KEPT 17 CROSS SECTIONS FOR EDITING

17 " " VALID FOR PROPERTY COMPUTATIONS

17 " " " " PROFILE "

CROSS-SECTION PROPERTIES FOR: BOONE CREEK
 SECID=X AT DISTANCE= 6356 FLOOD PROFILES PART 1 OF 1 X-AG

WS	A	K	ALPHA	B	P	LEW	REW	QC
3160.0	13	344	1.00	18	18	189	207	63
3169.9	801	85730	1.02	165	177	80	245	9889
3178.0	1389	455845	1.06	210	232	80	290	44430

CROSS-SECTION PROPERTIES FOR: BOONE CREEK
 SECID=Y AT DISTANCE= 6550 FLOOD PROFILES PART 1 OF 1 X-AG

WS	A	K	ALPHA	B	P	LEW	REW	QC
3164.0	24	1349	1.00	15	16	120	135	175
3173.9	1357	166986	1.17	302	313	0	302	15100
3180.0	3644	619049	1.09	400	420	0	400	59855

CROSS-SECTION PROPERTIES FOR: BOONE CREEK
 SECID=Z AT DISTANCE= 6705 FLOOD PROFILES PART 1 OF 1 X-AG

WS	A	K	ALPHA	B	P	LEW	REW	QC
3166.0	18	585	1.00	17	18	82	99	102
3175.9	516	41591	1.24	183	200	31	289	4416
3185.0	3574	569320	1.00	355	393	20	375	58934

CROSS-SECTION PROPERTIES FOR: BOONE CREEK
 SECID=Z-AA AT DISTANCE= 6738 FLOOD PROFILES PART 1 OF 1 X-AG

WS	A	K	ALPHA	B	P	LEW	REW	QC
3166.0	7	97	1.00	14	15	85	99	26
3175.9	679	56796	1.05	249	266	40	289	6208
3185.0	3594	785305	1.05	335	368	40	375	65172

CROSS-SECTION PROPERTIES FOR: BOONE CREEK
 SECID=DUMAA AT DISTANCE= 6750 FLOOD PROFILES PART 1 OF 1 X-AG

WS	A	K	ALPHA	B	P	LEW	REW	QC
3167.0	23	898	1.00	17	18	94	111	152
3176.9	908	97341	1.14	221	231	74	295	9761
3180.0	1710	227638	1.06	291	304	74	365	22784

CROSS-SECTION PROPERTIES FOR: BOONE CREEK FLOOD PROFILES X-AG
 SECID=AA AT DISTANCE= 6774 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3167.0	20	705	1.00	17	18	94	111	121
3176.9	865	91213	1.15	216	226	74	290	9131
3180.0	1651	215551	1.07	291	303	74	365	21549

CROSS-SECTION PROPERTIES FOR: BOONE CREEK FLOOD PROFILES X-AG
 SECID=AB AT DISTANCE= 6880 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3169.0	24	958	1.00	17	18	4	21	165
3178.9	1168	120776	1.01	271	286	0	271	13692
3180.0	1482	168561	1.00	300	316	0	300	18664

CROSS-SECTION PROPERTIES FOR: BOONE CREEK FLOOD PROFILES X-AG
 SECID=AC AT DISTANCE= 7005 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3170.0	12	307	1.00	17	17	79	95	57
3179.9	911	97218	1.14	191	199	0	191	10604
3185.0	2064	311636	1.04	250	265	0	250	32956

CROSS-SECTION PROPERTIES FOR: BOONE CREEK FLOOD PROFILES X-AG
 SECID=AC-AD AT DISTANCE= 7021 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3171.0	20	716	1.00	14	17	78	92	131
3180.9	1142	121988	1.02	220	235	-14	205	14623
3184.0	1893	254257	1.01	265	283	-14	250	28587

CROSS-SECTION PROPERTIES FOR: BOONE CREEK FLOOD PROFILES X-AG
 SECID=DUMAD AT DISTANCE= 7031 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3171.0	21	820	1.00	15	16	112	127	139
3180.9	1013	119571	1.08	155	165	0	155	14106
3185.0	1648	257649	1.04	155	173	0	155	29903

CROSS-SECTION PROPERTIES FOR: BOONE CREEK FLOOD PROFILES X-AG
 SECID=AD AT DISTANCE= 7065 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3171.0	17	638	1.00	14	15	113	128	109
3180.9	1043	113867	1.17	214	222	0	214	12046
3185.0	2077	297028	1.09	275	288	0	275	31053

CROSS-SECTION PROPERTIES FOR: BOONE CREEK FLOOD PROFILES X-AG
 SECID=AE AT DISTANCE= 7360 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3174.0	15	532	1.00	13	15	48	61	96
3183.9	418	45532	1.01	74	84	0	74	5630
3192.0	1063	184461	1.02	85	106	0	85	21090

CROSS-SECTION PROPERTIES FOR: BOONE CREEK FLOOD PROFILES X-AG
 SECID=AF AT DISTANCE= 7430 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3175.0	18	588	1.00	17	18	156	173	104
3184.9	899	97956	1.02	182	197	0	182	11194
3188.1	1481	218731	1.02	182	203	0	182	23768

CROSS-SECTION PROPERTIES FOR: BOONE CREEK FLOOD PROFILES X-AG
 SECID=AF-1 AT DISTANCE= 7438 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3175.0	13	307	1.00	20	21	156	176	58
3184.9	730	71901	1.02	166	189	0	180	8568
3188.1	1298	173111	1.01	182	212	0	182	19582

CROSS-SECTION PROPERTIES FOR: BOONE CREEK FLOOD PROFILES X-AG
 SECID=DUMAF AT DISTANCE= 7450 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3176.0	25	974	1.00	17	19	156	173	166
3185.9	972	110912	1.02	182	197	0	182	12612
3188.7	1481	218753	1.02	182	203	0	182	23770

CROSS-SECTION PROPERTIES FOR: BOONE CREEK FLOOD PROFILES X-AG
 SECID=DUMAG AT DISTANCE= 7460 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3178.0	39	1707	1.00	22	25	94	116	293
3187.9	885	92805	1.05	199	215	-66	132	10331
3189.5	1231	145240	1.04	233	251	-99	133	15761

CROSS-SECTION PROPERTIES FOR: BOONE CREEK FLOOD PROFILES X-AG
 SECID=AG AT DISTANCE= 7492 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3178.0	28	1006	1.00	22	24	94	116	178
3187.9	789	79384	1.06	187	204	-55	131	8923
3190.0	1231	145240	1.04	233	251	-99	133	15761

*** INPUT CARD PRINTOUT ***

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8 2288

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0 0 0 0 0 0 0 0

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK FLOOD PROFILES X-AG
 PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECID	ERROR(WARNING) MESSAGE	INTERMEDIATE RESULTS (IF ANY)	ACTION TAKEN
Y	KU/KD < 0.7 OR > 1.4		ALERTED USER
Z	FRDN FAILURE	WS = 3169.04 & FR = 1.16	USED HIGHER WS
Z	WS NOT FOUND BETWEEN	WS = 3169.02 & WS = 3185.00	USED DEL = 0.25
Z	FRDN FAILURE	WS = 3169.04 & FR = 1.16	USED HIGHER WS
Z	WS NOT FOUND BETWEEN	WS = 3169.02 & WS = 3185.00	USED WSMIN = WSC
Z	WS NOT FOUND		ASSUMED WS = WSC
Z-AA	FRDN FAILURE	WS = 3170.54 & FR = 1.05	USED HIGHER WS
Z-AA	WS NOT FOUND BETWEEN	WS = 3169.19 & WS = 3185.00	USED DEL = 0.25
Z-AA	FRDN FAILURE	WS = 3170.54 & FR = 1.05	USED HIGHER WS
Z-AA	WS NOT FOUND BETWEEN	WS = 3169.19 & WS = 3185.00	USED WSMIN = WSC
Z-AA	WS NOT FOUND		ASSUMED WS = WSC
DUMAA	KU/KD < 0.7 OR > 1.4		ALERTED USER
AB	KU/KD < 0.7 OR > 1.4		ALERTED USER
AC	KU/KD < 0.7 OR > 1.4		ALERTED USER
AC-AD	WS NOT FOUND BETWEEN	WS = 3174.72 & WS = 3184.00	USED DEL = 0.25
AC-AD	WS NOT FOUND BETWEEN	WS = 3174.72 & WS = 3184.00	USED WSMIN = WSC
AC-AD	WS NOT FOUND		ASSUMED WS = WSC
DUMAD	KU/KD < 0.7 OR > 1.4		ALERTED USER
AE	FRDN FAILURE	WS = 3178.02 & FR = 1.02	USED HIGHER WS
AE	WS NOT FOUND BETWEEN	WS = 3175.56 & WS = 3192.00	USED DEL = 0.25
AE	FRDN FAILURE	WS = 3178.02 & FR = 1.02	USED HIGHER WS

AE ; WS NOT FOUND BETWEEN

; WS = 3175.56 & WS = 3192.00;

AE ; WS NOT FOUND

AF ; KU/KD < 0.7 OR > 1.4

DUMAF; KU/KD < 0.7 OR > 1.4

DUMAG; KU/KD < 0.7 OR > 1.4

USED WSMIN = WSC

ASSUMED WS = WSC

ALERTED USER

ALERTED USER

ALERTED USER

WATER-SURFACE PROFILE FOR: BOONE CREEK FLOOD PROFILES X-AG
 PAGE 1 OF 2, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID	
X ^F	AT	6356	0	930.	691.	67951.	1.01	80.	237.
3169.22		0.03			3169.25	1.35	0.13		*IS*
Y ^{AA}	AT	6550	194	930.	365.	27188.	1.03	0.	146.
3169.27		0.10	0.09	0.04	3169.38	2.55	0.29	0.000	*XS*
Z ^{AA}	AT	6705	155	930.	80.	5724.	1.00	82.	101.
3169.44		2.10	*****	*****	3171.54	11.62	0.99	*****	*XS*
Z-AA	AT	6738	33	930.	72.	3739.	1.00	85.	99.
3170.70		2.56	*****	*****	3173.26	12.83	0.99	*****	*XS*
DUMAA ^E	AT	6750	12	930.	232.	20016.	1.21	74.	204.
3173.10		0.30	0.14	0.0	3173.40	4.01	0.34	0.001	*XS*
AA ^A	AT	6774	24	930.	214.	18787.	1.14	74.	169.
3173.14		0.34	0.06	0.02	3173.48	4.35	0.36	0.004	*XS*
AB ^{AD}	AT	6880	106	930.	116.	7885.	1.00	0.	32.
3173.43		1.00	0.62	0.33	3174.43	8.03	0.73	0.001	*XS*
AC ^{AE}	AT	7005	125	930.	184.	12923.	1.32	2.	107.
3174.97		0.53	1.06	0.0	3175.49	5.06	0.50	-0.000	*XS*
AC-AD ^{AT}	AT	7021	16	930.	179.	9312.	1.55	-11.	113.
3175.36		0.65	*****	*****	3176.01	5.21	0.56	*****	*XS*
DUMAD ^{AT}	AT	7031	10	930.	232.	15696.	1.48	0.	141.
3175.71		0.37	0.06	0.0	3176.08	4.02	0.43	0.004	*XS*
AD ^{AT}	AT	7065	34	930.	212.	14936.	1.37	28.	141.
3175.81		0.41	0.13	0.02	3176.22	4.39	0.45	-0.002	*XS*
AE ^{AT}	AT	7360	295	930.	86.	5977.	1.00	43.	66.
3178.10		1.84	*****	*****	3179.93	10.87	0.99	*****	*XS*
AF ^{AT}	AT	7430	70	930.	124.	9614.	1.00	151.	179.
3180.10		0.88	1.05	0.0	3180.97	7.51	0.64	-0.016	*XS*
AF-1 ^{AT}	AT	7438	8	930.	155.	12759.	1.05	0.	180.
3180.44		0.59	0.06	0.0	3181.03	5.99	0.47	0.003	*XS*
DUMAF ^{AT}	AT	7450	12	930.	113.	8617.	1.00	152.	178.
3180.30		1.05	0.09	0.23	3181.36	8.22	0.70	-0.001	*XS*

SEE DRAWINGS

OK

OK

1.5 3171.43

1.5 3173.10

1.5 3175.18

1.5

1.5

WATER-SURFACE PROFILE FOR: BOONE CREEK FLOOD PROFILES X-AG
PAGE 2 OF 2, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECTION	AT	WS ELEV	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW							
			HV	HF	HE	EG	V	FN	ASC	ID*							
DUMAG	AT	7460	/	10	/	930	/	84	/	5589	/	1.00	/	94	/	116	
		3180.05	/	1.91	/	0.18	/	0.43	/	3181.96	/	11.07	/	1.00	/	-0.003	*XS*
AGAT	AT	7492	/	32	/	930	/	105	/	7180	/	1.00	/	91	/	118	
		3181.43	/	1.22	/	0.69	/	0.0	/	3182.65	/	8.84	/	0.79	/	-0.002	*XS*

END OF THIS PROFILE

COMPUTED WSC VALUES FOR: BOONE CREEK FLOOD PROFILES X-AG
PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECID	Z	Z-AA	AC-AD	AE
WSC	3169.44	3170.70	3175.36	3178.10

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK FLOOD PROFILES X-AG
 PROFILE NUMBER 2, UPSTREAM COMPUTATIONS

SECID	ERROR(WARNING) MESSAGE	INTERMEDIATE RESULTS(IF ANY)	ACTION TAKEN
Y	KU/KD < 0.7 OR > 1.4		ALERTED USER
Z	WS NOT FOUND BETWEEN	WS = 3169.84 & WS = 3185.00	USED DEL = 0.25
Z	WS NOT FOUND BETWEEN	WS = 3169.84 & WS = 3185.00	USED WSMIN = WSC
Z	WS NOT FOUND		ASSUMED WS = WSC
Z-AA	FRDN FAILURE	WS = 3172.01 & FR = 1.16	USED HIGHER WS
DUMAA	KU/KD < 0.7 OR > 1.4		ALERTED USER
AB	KU/KD < 0.7 OR > 1.4		ALERTED USER
AC-AD	WS NOT FOUND BETWEEN	WS = 3175.35 & WS = 3184.00	USED DEL = 0.25
AC-AD	WS NOT FOUND BETWEEN	WS = 3175.35 & WS = 3184.00	USED WSMIN = WSC
AC-AD	WS NOT FOUND		ASSUMED WS = WSC
DUMAD	KU/KD < 0.7 OR > 1.4		ALERTED USER
AE	FRDN FAILURE	WS = 3179.25 & FR = 1.14	USED HIGHER WS
AE	WS NOT FOUND BETWEEN	WS = 3176.09 & WS = 3192.00	USED DEL = 0.25
AE	FRDN FAILURE	WS = 3179.25 & FR = 1.15	USED HIGHER WS
AE	WS NOT FOUND BETWEEN	WS = 3176.09 & WS = 3192.00	USED WSMIN = WSC
AE	WS NOT FOUND		ASSUMED WS = WSC
AF	KU/KD < 0.7 OR > 1.4		ALERTED USER
DUMAF	KU/KD < 0.7 OR > 1.4		ALERTED USER
DUMAG	WS NOT FOUND BETWEEN	WS = 3181.52 & WS = 3189.50	USED DEL = 0.25
DUMAG	WS NOT FOUND BETWEEN	WS = 3181.52 & WS = 3189.50	USED WSMIN = WSC
DUMAG	WS NOT FOUND		ASSUMED WS = WSC

WATER-SURFACE PROFILE FOR: BOONE CREEK FLOOD PROFILES X-AG
 PAGE 1 OF 2, PROFILE NUMBER 2, UPSTREAM COMPUTATIONS

SEE DOWN CURVE
 & COR OF 9/24/77

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID*	
X	AT	6356 /	0 /	1520. /	821. /	89181. /	1.02 /	80. /	246.
		3170.02 /	0.05 /		3170.07 /	1.85 /	0.16 /		*IS*
Y	AT	6550 /	194 /	1520. /	483. /	40592. /	1.00 /	0. /	149.
		3170.09 /	0.15 /	0.12 /	0.05 /	3170.25 /	3.15 /	0.33 /	-0.000 *XS*
Z	AT	6705 /	155 /	1520. /	113. /	9267. /	1.00 /	82. /	102.
		3171.14 /	2.83 /	***** /	***** /	3173.97 /	13.50 /	0.99 /	***** *XS*
Z-AA	AT	6738 /	33 /	1520. /	189. /	9712. /	1.23 /	40. /	205.
		3173.57 /	1.24 /	0.85 /	0.0 /	3174.81 /	8.05 /	0.61 /	-0.007 *XS*
DUMAA	AT	6750 /	12 /	1520. /	476. /	42523. /	1.28 /	74. /	242.
		3174.57 /	0.20 /	0.07 /	0.0 /	3174.88 /	3.19 /	0.27 /	-0.001 *XS*
AA	AT	6774 /	24 /	1520. /	443. /	38845. /	1.30 /	74. /	239.
		3174.87 /	0.24 /	0.03 /	0.02 /	3174.91 /	3.43 /	0.29 /	-0.016 *XS*
AB	AT	6880 /	106 /	1520. /	289. /	18602. /	1.16 /	0. /	142.
		3174.88 /	0.50 /	0.34 /	0.13 /	3175.38 /	5.26 /	0.52 /	-0.002 *XS*
AC	AT	7005 /	125 /	1520. /	255. /	18285. /	1.37 /	0. /	117.
		3175.60 /	0.76 /	0.85 /	0.13 /	3176.36 /	5.96 /	0.59 /	-0.000 *XS*
AC-AD	AT	7021 /	16 /	1520. /	255. /	14344. /	1.34 /	-15. /	120.
		3175.94 /	0.75 /	***** /	***** /	3176.68 /	5.97 /	0.61 /	***** *XS*
DUMAD	AT	7031 /	10 /	1520. /	300. /	20936. /	1.46 /	0. /	143.
		3176.19 /	0.58 /	0.08 /	0.0 /	3176.77 /	5.07 /	0.53 /	0.011 *XS*
AD	AT	7065 /	34 /	1520. /	284. /	19874. /	1.48 /	0. /	143.
		3176.34 /	0.66 /	0.19 /	0.04 /	3177.00 /	5.36 /	0.56 /	-0.003 *XS*
AE	AT	7360 /	295 /	1520. /	168. /	13327. /	1.14 /	4. /	69.
		3180.38 /	1.45 /	***** /	***** /	3181.83 /	9.06 /	0.77 /	***** *XS*
AF	AT	7430 /	70 /	1520. /	362. /	25915. /	1.27 /	0. /	182.
		3181.95 /	0.35 /	0.47 /	0.0 /	3182.30 /	4.20 /	0.40 /	-0.002 *XS*
AF-1	AT	7438 /	8 /	1520. /	294. /	22862. /	1.23 /	0. /	180.
		3181.90 /	0.51 /	0.03 /	0.08 /	3182.41 /	5.17 /	0.42 /	-0.001 *XS*
DUMAF	AT	7450 /	12 /	1520. /	234. /	15746. /	1.38 /	0. /	182.
		3181.77 /	0.91 /	0.08 /	0.20 /	3182.68 /	6.51 /	0.65 /	-0.007 *XS*

3171.14

3173.57

3174.57

3174.87

3174.88

3175.60

3175.94

3181.95

3181.90

3181.77

WATER-SURFACE PROFILE FOR: BOONE CREEK FLOOD PROFILES X-AG
PAGE 2 OF 2, PROFILE NUMBER 2, UPSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV		HV	HF	HE	EG	V	FN	ACC	*ID*
DUMAG	AT	7460	10	1520.	129.	9469.	1.00	91.	121.
3181.77		2.15	*****	*****	3183.92	11.75	1.00	*****	*XS*
AB ¹	AT	7492	32	1520.	152.	12005.	1.00	88.	122.
3183.02		1.55	0.65	0.0	3184.57	9.97	0.80	-0.001	*XS*

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 17, DATE= 9/24/77

COMPUTED WSC VALUES FOR: BOONE CREEK FLOOD PROFILES X-AG
PROFILE NUMBER 2, UPSTREAM COMPUTATIONS

SECID	Z	AC-AD	AE	DUMAG
WSC	3171.14	3175.94	3180.38	3181.77

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK FLOOD PROFILES X-AG
 PROFILE NUMBER 3: UPSTREAM COMPUTATIONS

SECID	ERROR(WARNING) MESSAGE	INTERMEDIATE RESULTS(IF ANY)	ACTION TAKEN
Y	KU/KD < 0.7 OR > 1.4		ALERTED USER
Z	WS NOT FOUND BETWEEN	WS = 3170.14 & WS = 3185.00	USED DEL = 0.25
Z	WS NOT FOUND BETWEEN	WS = 3170.14 & WS = 3185.00	USED WSMIN = WSC
Z	WS NOT FOUND		ASSUMED WS = WSC
Z-AA	FRDN FAILURE	WS = 3172.86 & FR = 1.21	USED HIGHER WS
Z-AA	KU/KD < 0.7 OR > 1.4		ALERTED USER
DUMAA	KU/KD < 0.7 OR > 1.4		ALERTED USER
AB	KU/KD < 0.7 OR > 1.4		ALERTED USER
AC	KU/KD < 0.7 OR > 1.4		ALERTED USER
AE	FRDN FAILURE	WS = 3179.41 & FR = 1.27	USED HIGHER WS
AE	WS NOT FOUND BETWEEN	WS = 3176.49 & WS = 3192.00	USED DEL = 0.25
AE	FRDN FAILURE	WS = 3179.40 & FR = 1.27	USED HIGHER WS
AE	WS NOT FOUND BETWEEN	WS = 3176.49 & WS = 3192.00	USED WSMIN = WSC
AE	WS NOT FOUND		ASSUMED WS = WSC
AF	KU/KD < 0.7 OR > 1.4		ALERTED USER
DUMAG	WS NOT FOUND BETWEEN	WS = 3182.04 & WS = 3189.50	USED DEL = 0.25
DUMAG	WS NOT FOUND BETWEEN	WS = 3182.04 & WS = 3189.50	USED WSMIN = WSC
DUMAG	WS NOT FOUND		ASSUMED WS = WSC

WATER-SURFACE PROFILE FOR: HOONE CREEK FLOOD PROFILES X-AG
 PAGE 1 OF 2, PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

SECID	AT	WS ELEV	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW	HS	HV	HF	HE	EG	V	FN	ACC	ID
X-AT	6356	3170.31	0	869.	97776.	1.03	80.	249.				1780.	3170.38	2.05	0.17		*IS*
Y-AT	6550	3170.39	194	528.	46673.	1.00	0.	155.				1780.	3170.57	3.37	0.34	0.000	*XS*
Z-AT	6705	3171.79	155	125.	10740.	1.00	82.	102.				1780.	3174.92	14.20	1.00	*****	*XS*
Z-AA	6738	3173.17	33	137.	7284.	1.18	40.	134.				1780.	3176.27	12.97	0.94	0.008	*XS*
DUMAA	6750	3176.23	12	766.	77885.	1.17	74.	279.				1780.	3176.33	2.32	0.18	-0.000	*XS*
AA	6774	3176.23	24	726.	72561.	1.18	74.	274.				1780.	3176.34	2.45	0.19	-0.008	*XS*
AB	6880	3176.31	108	552.	42292.	1.07	0.	204.				1780.	3176.48	3.22	0.35	-0.000	*XS*
AC	7005	3176.49	125	363.	28390.	1.30	0.	123.				1780.	3176.97	4.90	0.46	-0.001	*XS*
AD	7021	3176.57	16	342.	21599.	1.18	-15.	128.				1780.	3177.07	5.20	0.54	0.008	*XS*
DUMAD	7031	3176.61	10	361.	26419.	1.40	0.	145.				1780.	3177.14	4.93	0.50	0.004	*XS*
AD	7065	3176.74	34	341.	24812.	1.43	0.	145.				1780.	3177.34	5.21	0.53	-0.003	*XS*
AE	7360	3180.92	295	205.	16623.	1.15	0.	70.				1780.	3182.27	8.70	0.73	*****	*XS*
AF	7430	3182.36	70	437.	33103.	1.20	0.	182.				1780.	3182.67	4.08	0.37	-0.002	*XS*
AF	7438	3182.29	8	340.	26874.	1.21	0.	180.				1780.	3182.80	5.23	0.42	-0.001	*XS*
DUMAF	7450	3182.29	12	315.	22031.	1.31	0.	182.				1780.	3182.93	5.64	0.55	0.002	*XS*

VBE UNIT 3174.09
 SEE DOWN CHANNEL
 3174.34
 3174.17
 3174.17

3175.96

3176.11

3176.26

3176.74

3176.74

WATER-SURFACE PROFILE FOR: BOONE CREEK FLOOD PROFILES (X-AG)
PAGE 2 OF 2, PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW	WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID*
DUMAGI	AT	7460	10	1780.	145.	11214.	1.00	91.	122.	3182.30	2.33	*****	*****	3184.63	12.25	1.00	*****	*XS*
AG	AT	7492	32	1780.	198.	15417.	1.15	0.	124.	3183.80	1.44	0.59	0.0	3185.23	8.97	0.74	0.018	*XS*

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 21, DATE= 9/24/77

COMPUTED WSC VALUES FOR: BOONE CREEK FLOOD PROFILES X-AG
PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

SECID	2	AE	DUNAG
WSC	3171.79	3180.92	3182.30

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK FLOOD PROFILES X-AG
 PROFILE NUMBER 4, UPSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

Y	; KU/KD < 0.7 OR > 1.4			ALERTED USER
Z	; WS NOT FOUND BETWEEN			
		; WS = 3170.84 & WS = 3185.00;		USED DEL = 0.25
Z	; WS NOT FOUND BETWEEN			
		; WS = 3170.84 & WS = 3185.00;		USED WSMIN = WSC
Z	; WS NOT FOUND			ASSUMED WS = WSC
Z-AA	; KU/KD < 0.7 OR > 1.4			ALERTED USER
AB	; KU/KD < 0.7 OR > 1.4			ALERTED USER
AE	; FRDN FAILURE			
		; WS = 3180.30 & FR = 1.32;		USED HIGHER WS
AE	; WS NOT FOUND BETWEEN			
		; WS = 3176.84 & WS = 3192.00;		USED DEL = 0.25
AE	; FRDN FAILURE			
		; WS = 3180.30 & FR = 1.32;		USED HIGHER WS
AE	; WS NOT FOUND BETWEEN			
		; WS = 3176.84 & WS = 3192.00;		USED WSMIN = WSC
AE	; WS NOT FOUND			ASSUMED WS = WSC
AF	; KU/KD < 0.7 OR > 1.4			ALERTED USER
DUMAG	; WS NOT FOUND BETWEEN			
		; WS = 3183.14 & WS = 3189.50;		USED DEL = 0.25
DUMAG	; WS NOT FOUND BETWEEN			
		; WS = 3183.14 & WS = 3189.50;		USED WSMIN = WSC
DUMAG	; WS NOT FOUND			ASSUMED WS = WSC

WATER-SURFACE PROFILE FOR: BOONE CREEK FLOOD PROFILES X-AG
 PAGE 1 OF 2, PROFILE NUMBER 4, UPSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID	
X	AT	6356	0	2510.	989.	119623.	1.04	80.	257.
3171.00	0.10			3171.10	2.54	0.20		*IS*	
Y	AT	6550	194	2510.	650.	63481.	1.04	0.	194.
3171.09	0.24	0.16	0.07	3171.33	3.86	0.36	-0.000	*XS*	
Z	AT	6705	155	2510.	344.	26586.	1.34	38.	260.
3174.86	1.11	*****	*****	3175.97	7.30	0.57	*****	*XS*	
AA	AT	6738	33	2510.	674.	56280.	1.05	40.	288.
3175.88	0.23	0.14	0.0	3176.11	3.72	0.44	-0.000	*XS*	
DUMAA	AT	6750	12	2510.	696.	68725.	1.19	74.	271.
3175.88	0.24	0.02	0.01	3176.12	3.61	0.28	-0.012	*XS*	
AA	AT	6774	24	2510.	657.	63811.	1.20	74.	266.
3175.88	0.27	0.03	0.02	3176.16	3.82	0.30	-0.019	*XS*	
AB	AT	6880	106	2510.	508.	37665.	1.09	0.	198.
3176.09	0.41	0.28	0.07	3176.50	4.94	0.43	-0.001	*XS*	
AC	AT	7005	125	2510.	372.	29295.	1.29	0.	129.
3176.55	0.91	0.71	0.25	3177.47	6.74	0.63	-0.001	*XS*	
AC-ND	AT	7021	16	2510.	376.	24712.	1.15	-15.	131.
3176.80	0.79	0.14	0.0	3177.60	6.67	0.68	-0.011	*XS*	
DUMAD	AT	7031	10	2510.	399.	30169.	1.36	0.	146.
3176.88	0.84	0.08	0.02	3177.71	6.29	0.63	0.008	*XS*	
AD	AT	7065	34	2510.	393.	29783.	1.38	0.	146.
3177.09	0.87	0.24	0.02	3177.97	6.38	0.63	-0.001	*XS*	
AE	AT	7360	295	2510.	257.	22382.	1.09	0.	71.
3181.67	1.62	*****	*****	3183.29	9.77	0.78	*****	*XS*	
AF	AT	7430	70	2510.	620.	54968.	1.08	0.	182.
3183.37	0.28	0.36	0.0	3183.64	4.05	0.40	-0.001	*XS*	
AF-1	AT	7438	8	2510.	477.	40348.	1.12	0.	180.
3183.29	0.48	0.02	0.10	3183.77	5.26	0.39	-0.001	*XS*	
DUMAF	AT	7450	12	2510.	515.	41768.	1.14	0.	182.
3183.39	0.42	0.04	0.0	3183.81	4.87	0.42	-0.003	*XS*	

USGS 3172.1

3177.4

3176.8

3177.1

3177.0

3181.6

Profile number 3183.5

3183.29

3183.5

3184.0

WATER-SURFACE PROFILE FOR: BOONE CREEK FLOOD PROFILES X-AG
PAGE 2 OF 2, PROFILE NUMBER 4, UPSTREAM COMPUTATIONS

SECID	AT DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID*
DUMAG	AT 7460	/ 10	/ 2510.	/ 325.	/ 25087.	/ 1.22	/ 0.	/ 125.
ck	3184.37	/ 1.13	/*****	/*****	/ 3185.50	/ 7.72	/ 0.66	/***** XS*
AGAI	AT 7492	/ 32	/ 2510.	/ 284.	/ 21447.	/ 1.26	/ 0.	/ 125.
ck	3184.54	/ 1.52	/ 0.37	/ 0.20	/ 3186.07	/ 8.83	/ 0.76	/ -0.005 XS*

END OF THIS PROFILE

COMPUTED WSC VALUES FOR: BOONE CREEK FLOOD PROFILES X-AG
PROFILE NUMBER 4, UPSTREAM COMPUTATIONS

SECID	Z	AE	DUMAG
WSC	3174.86	3181.67	3184.37

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK 100 YR ZAA TO AE FIX UP
 PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

DUMAA; KU/KD < 0.7 OR > 1.4		ALERTED USER
AB ; KU/KD < 0.7 OR > 1.4		ALERTED USER
AC-AD; WS NOT FOUND BETWEEN		
	; WS = 3175.35 & WS = 3184.00;	USED DEL = 0.25
AC-AD; WS NOT FOUND BETWEEN		
	; WS = 3175.35 & WS = 3184.00;	USED WSMIN = WSC
AC-AD; WS NOT FOUND		ASSUMED WS = WSC
DUMAD; KU/KD < 0.7 OR > 1.4		ALERTED USER
AE ; FRDN FAILURE		
	; WS = 3179.25 & FR = 1.14;	USED HIGHER WS
AE ; WS NOT FOUND BETWEEN		
	; WS = 3176.09 & WS = 3192.00;	USED DEL = 0.25
AE ; FRDN FAILURE		
	; WS = 3179.25 & FR = 1.15;	USED HIGHER WS
AE ; WS NOT FOUND BETWEEN		
	; WS = 3176.09 & WS = 3192.00;	USED WSMIN = WSC
AE ; WS NOT FOUND		ASSUMED WS = WSC

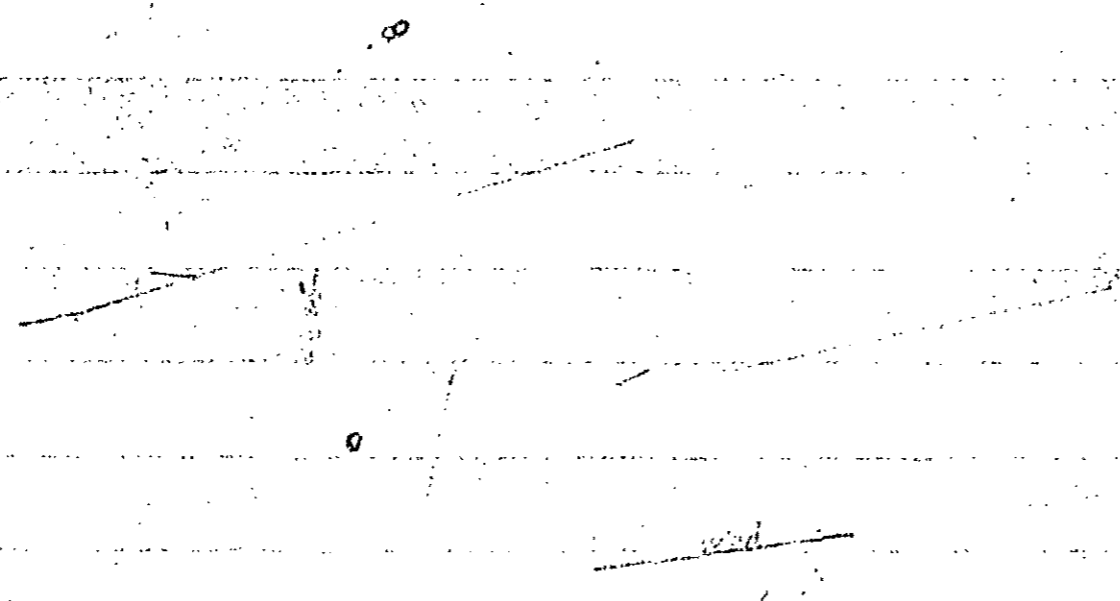
WATER-SURFACE PROFILE FOR: BOONE CREEK 100 YR ZAA TO AE FIX UP
 PAGE 1 OF 1, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECID	AT DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID*
Z AA	AT 6738	0	1520.	255.	13538.	1.12	40.	215.
UNIT START	3173.96	0.62		3174.58	5.97	0.43		*IS*
DUMAA	AT 6750	12	1520.	426.	36996.	1.31	74.	238.
	3174.37	0.26	0.05	0.0	3174.63	3.57	0.31	-0.002 *XS*
AA	AT 6774	24	1520.	393.	33592.	1.34	74.	236.
	3174.37	0.31	0.04	0.03	3174.68	3.87	0.34	-0.020 *XS*
AB	AT 6880	106	1520.	257.	15915.	1.20	0.	141.
	3174.66	0.65	0.46	0.17	3175.31	5.91	0.61	-0.001 *XS*
AC	AT 7005	125	1520.	255.	18255.	1.37	0.	117.
	3175.60	0.76	0.99	0.05	3176.36	5.97	0.59	-0.000 *XS*
AC-AD	AT 7021	16	1520.	255.	14344.	1.34	-15.	120.
	3175.94	0.75	*****	*****	3176.68	5.97	0.61	***** *XS*
DUMAD	AT 7031	10	1520.	300.	20936.	1.46	0.	143.
	3176.19	0.58	0.98	0.0	3176.77	5.07	0.53	0.011 *XS*
AD	AT 7065	34	1520.	284.	19874.	1.48	0.	143.
	3176.34	0.66	0.19	0.04	3177.00	5.36	0.56	-0.003 *XS*
AE	AT 7360	295	1520.	168.	13327.	1.14	4.	69.
	3180.38	1.45	*****	*****	3181.83	9.06	0.77	***** *XS*

END OF THIS PROFILE

COMPUTED WSC VALUES FOR: BOONE CREEK 100 YR ZAA TO AE FIX UP
PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECID	AC-AD	AE
WSC	3175.94	3180.38



COMPUTED WSC VALUES FOR: BOCNE CREEK 100 YR ZAA TO AE FIX UP
PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECID AE
WSC 3180.92

PAGE 1 OF PROFILE NOTES FOR: SOONE CREEK 100 YR ZAA TO AE FIX UP
 PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECDI ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

DUMAA; KU/KD < 0.7 OR > 1.4	|	ALERTED USER
AB; KU/KD < 0.7 OR > 1.4	|	ALERTED USER
AC-AD; KU/KD < 0.7 OR > 1.4	|	ALERTED USER
DUMAD; KU/KD < 0.7 OR > 1.4	|	ALERTED USER
AE; FRDN FAILURE	|	ALERTED USER
	| WS = 3179.47 & FR = 1.25;	
AE; WS NOT FOUND BETWEEN	|	USED HIGHER WS
	| WS = 3176.42 & WS = 3192.00;	
AE; FRDN FAILURE	|	USED DEL = 0.25
	| WS = 3179.47 & FR = 1.25;	
AE; WS NOT FOUND BETWEEN	|	USED HIGHER WS
	| WS = 3176.42 & WS = 3192.00;	
AE; WS NOT FOUND	|	USED WSMIN = WSC
	|	ASSUMED WS = WSC

WATER-SURFACE PROFILE FOR: BOONE CREEK 100 YR ZAA TO AE FIX UP
 PAGE 1 OF 1, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID#	
Z AA	AT	6738	0	1780.	278.	15668.	1.09	40.	219.
3174.09	0.70			3174.79	6.41	0.45			*IS*
DUMAA	AT	6750	12	1780.	453.	39967.	1.29	74.	239.
3174.54	0.31	0.06	0.0	3174.85	3.93	0.34			*XS*
AA	AT	6774	24	1780.	424.	36856.	1.31	74.	238.
3174.57	0.36	0.05	0.02	3174.92	4.19	0.36			*XS*
AB	AT	6880	106	1780.	290.	18706.	1.16	0.	142.
3174.89	0.68	0.49	0.16	3175.57	6.13	0.61			*XS*
AC	AT	7005	125	1780.	283.	20660.	1.36	0.	120.
3175.84	0.84	1.02	0.08	3176.68	6.30	0.62			*XS*
AC-AD	AT	7021	16	1780.	241.	13311.	1.38	-15.	119.
3175.84	1.18	0.18	0.17	3177.01	7.40	0.76			*XS*
DUMAD	AT	7031	10	1780.	349.	25313.	1.41	0.	144.
3176.53	0.57	0.09	0.0	3177.10	5.09	0.52			*XS*
AD	AT	7065	34	1780.	332.	23932.	1.44	0.	145.
3176.67	0.65	0.18	0.04	3177.32	5.37	0.55			*XS*
AE	AT	7360	295	1780.	205.	16623.	1.15	0.	70.
3180.92	1.35	*****	*****	3182.27	8.70	0.73			*XS*

END OF THIS PROFILE

FINAL RUNS AG - AL

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT=

1,DATE=10/ 3/77

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8
1	1	BOONE CREEK	SECT AG TO A	OVERLAND	FINAL	9	8	02 99 10
2	2	318142	-99999	318302	-99999	318380	-99999	318454 -99999
3	2200	AG AI	1 21	3 3178	7492	99 99		
4	2201	930	930	1520	1520	1780	1780	2510 2510
5	2205	-100	1 31900	0	1 31852	0	1 31835	9 1 31834 9 1 31852
5	2206	10	1 31842	65	1 31835	73	1 31835	73 1 31832 90 1 31830
5	2207	91	2 31835	91	2 31813	94	2 31808	94 2 31768 101 2 31767
5	2208	107	2 31767	116	2 31768	116	2 31808	121 2 31822 128 3 31865
5	2209	133	3 31888					
6	2210	1 2	035 035	1 2	045 045	1 2	045 045	
3	2248	AGTOP	1 16	2 3182	7495	99 99		
4	2249	594	594	1195	1195	1460	1460	2190 2190
5	2250	-100	1 31900	0	1 31852	0	1 31835	9 1 31834 9 1 31852
5	2251	10	1 31842	65	1 31835	73	1 31835	73 1 31832 90 1 31830
5	2252	91	2 31835	91	2 31813	94	2 31813	116 2 31813 121 2 31822
5	2253	133	2 31888					
6	2255	1 2	035 035	1 2	045 045			
3	2300	AHAJ	0 9	1 3190	7805	99 99		
5	2305	0	1 32000	0	1 31898	28	1 31895	59 1 31895 91 1 31897
5	2306	97	1 31933	105	1 31950	130	1 31950	210 1 32000
6	2310	1 2	035 035					
3	2500	AI AK	0 13	1 3193	8079	99 99		
5	2505	0	1 32020	0	1 31911	25	1 31910	62 1 31932 62 1 31977
5	2506	80	1 31976	80	1 31948	110	1 31960	120 1 31970 126 1 32002
5	2507	136	1 32027	161	1 32027	240	1 32077	
6	2510	1 2	035 035					
3	2600	AJ AL	1 22	0 3196	8119	99 99		
4	2601	455	455	989	989	1230	1230	1890 1890
5	2605	0	1 32056	10	1 32029	23	1 31982	60 1 31958 110 1 31954
5	2606	200	1 31947	226	1 31951	226	1 31971	294 1 31981 294 1 31961
5	2607	300	1 31963	300	1 31983	310	1 31985	310 1 31965 322 1 31968
5	2608	323	1 31960	350	1 31971	351	1 31976	370 1 31997 376 1 31999
5	2609	401	1 31999	500	1 32040			
6	2610	1 2	035 035					
3	2700	AJ-AL	0 13	1 3196	8125	99 99		
5	2705	-150	1 32050	0	1 31987	30	1 31942	40 1 31932 51 1 31934
5	2706	100	1 31941	300	1 31955	329	1 31957	329 1 31954 335 1 31951
5	2707	338	1 31960	348	1 31977	425	1 32050	
6	2710	1 2	025 025					
3	2800	AK AL	0 13	1 3202	8495	99 99		
5	2805	-150	1 32100	0	1 32047	30	1 32002	40 1 31992 51 1 31994
5	2806	100	1 32001	200	1 32015	229	1 32017	229 1 32014 235 1 32011
5	2807	238	1 32020	248	1 32037	325	1 32100	
6	2810	1 2	025 025					
3	2900	AK-AL	0 11	1 3205	8739	99 99		

ERROR(S)

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8
5 2905	-30	1 32100	0	1 32063	5	1 32031	38	1 32031 100 1 32037
5 2906	148	1 32044	155	1 32045	165	1 32058	185	1 32057 190 1 32048
5 2907	220	1 32100						
6 2910	1	2 030 030						
3 3000	ALAN	1 18	2 3198	8763	99 99			
4 3001	820	820	1350	1350	1590	1590	2250	2250
5 3005	-30	1 32100	0	1 32067	10	1 31994	15	1 31981 17 1 31966
5 3006	22	1 31954	25	1 31965	29	1 31963	31	1 31954 32 2 32031
5 3007	38	2 32035	100	2 32041	148	2 32048	155	2 32049 165 2 32062
5 3008	185	2 32061	190	2 32052	220	2 32100		
6 3010	1	2 050 050	1	2 030 030				

PAGE 1 OF EDITING NOTES FOR: BOONE CREEK SECT AG TO AI OVERLAND FINAL

SECID	ERROR SEVERITY	FIRST VARIABLE	NO.	ERROR MESSAGE	SECOND VARIABLE	NO.	VALUE ASSUMED
AJ	WARNING	NSA		WRONG			1

INPUT SUMMARY FOR: BOONE CREEK SECT AG TO A1 OVERLAND FINAL

9 CROSS SECTIONS SPECIFIED (OR ASSUMED)

FOUND 9 TYPE 3 CARDS

KEPT 9 CROSS SECTIONS FOR EDITING

9 " " VALID FOR PROPERTY COMPUTATIONS

9 " " " " PROFILE "

CROSS-SECTION PROPERTIES FOR: BOONE CREEK SECT AG TO AI OVERLAND FINAL
 SECID=AG AT DISTANCE= 7492 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3178.0	28	1006	1.00	22	24	94	116	178
3187.9	789	79384	1.06	187	204	-55	131	8923
3190.0	1231	145240	1.04	233	251	-99	133	15761

CROSS-SECTION PROPERTIES FOR: BOONE CREEK SECT AG TO AI OVERLAND FINAL
 SECID=AGTOP AT DISTANCE= 7495 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3182.0	19	463	1.00	29	30	91	120	87
3190.0	1131	127108	1.00	233	243	-99	133	14128

CROSS-SECTION PROPERTIES FOR: BOONE CREEK SECT AG TO AI OVERLAND FINAL
 SECID=AH AT DISTANCE= 7805 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3190.0	38	908	1.00	92	92	0	92	140
3199.9	1350	192740	1.00	208	220	0	208	19489
3200.0	1371	196732	1.00	210	222	0	210	19868

CROSS-SECTION PROPERTIES FOR: BOONE CREEK SECT AG TO AI OVERLAND FINAL
 SECID=AI AT DISTANCE= 8079 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3193.0	82	4307	1.00	59	61	0	59	554
3202.9	1125	159864	1.00	164	185	0	164	16706
3207.7	2095	353708	1.00	240	265	0	240	35111

CROSS-SECTION PROPERTIES FOR: BOONE CREEK SECT AG TO AI OVERLAND FINAL
 SECID=AJ AT DISTANCE= 8119 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3196.0	135	4903	1.00	169	170	57	226	681
3205.6	3838	626164	1.00	500	512	0	500	60307

CROSS-SECTION PROPERTIES FOR: BOONE CREEK SECT AG TO AI OVERLAND FINAL
 SECID=AJ-AK AT DISTANCE= 8125 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3196.0	432	31357	1.00	320	321	18	338	2843
3205.0	4284	972503	1.00	575	576	-149	425	66333

CROSS-SECTION PROPERTIES FOR: BOONE CREEK SECT AG TO AI OVERLAND FINAL
 SECID=AK AT DISTANCE= 8495 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3202.0	311	23359	1.00	220	221	18	238	2102
3210.0	2903	577216	1.00	475	476	-149	325	40701

CROSS-SECTION PROPERTIES FOR: BOONE CREEK SECT AG TO AI OVERLAND FINAL
 SECID=AK-AL AT DISTANCE= 8739 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3205.0	216	13072	1.00	159	160	2	191	1423
3210.0	1279	187698	1.00	250	252	-29	220	16407

CROSS-SECTION PROPERTIES FOR: BOONE CREEK SECT AG TO AI OVERLAND FINAL
 SECID=AL AT DISTANCE= 8763 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3198.0	29	1102	1.00	16	19	15	31	216
3207.9	857	88252	1.01	218	229	-10	207	9587
3210.0	1349	175014	1.09	250	261	-29	220	16993

*** INPUT CARD PRINTOUT ***

1 2 3 4 5 6 7 8
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7	3011	0	2	0	2	0	2	0	2
8	3012	0	0	0	0	0	0	0	0

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK SECT AG TO AI OVERLAND FINAL
 PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

AGTOP; WS TOO LOW		USED WSMIN = WSC
AGTOP; WS NOT FOUND BETWEEN		
	WS = 3183.93 & WS = 3190.00;	USED DEL = 0.25
AGTOP; WS NOT FOUND		ASSUMED WS = WSC
AH ; WS TOO LOW		USED WSMIN = WSC
AH ; WS NOT FOUND BETWEEN		
	WS = 3190.69 & WS = 3200.00;	USED DEL = 0.25
AH ; WS NOT FOUND		ASSUMED WS = WSC
AI ; WS TOO LOW		USED WSMIN = WSC
AI ; KU/KD < 0.7 OR > 1.4		ALERTED USER
AJ ; WS TOO LOW		USED WSMIN = WSC
AJ ; WS NOT FOUND BETWEEN		
	WS = 3195.82 & WS = 3205.60;	USED DEL = 0.25
AJ ; WS NOT FOUND		ASSUMED WS = WSC
AJ-AK; KU/KD < 0.7 OR > 1.4		ALERTED USER
AK ; WS TOO LOW		USED WSMIN = WSC
AK ; WS NOT FOUND BETWEEN		
	WS = 3200.75 & WS = 3210.00;	USED DEL = 0.25
AK ; WS NOT FOUND		ASSUMED WS = WSC
AK-AL; WS TOO LOW		USED WSMIN = WSC
AK-AL; WS NOT FOUND BETWEEN		
	WS = 3204.20 & WS = 3210.00;	USED DEL = 0.25
AK-AL; WS NOT FOUND		ASSUMED WS = WSC
AL ; KU/KD < 0.7 OR > 1.4		ALERTED USER

SEE BOONE CREEK 1072
 WATER-SURFACE PROFILE FOR: BOONE CREEK SECT AG TO AI OVERLAND FINAL
 PAGE 1 OF 1, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECT	AT DISTANCE / WS ELEV	LENGTH / HV	DISCHARGE / HF	AREA / HE	CONVEYANCE / EG	ALPHA / V	LEW / FN	REW / ACC	ID
AG ^{AT}	7492 / 3181.42	0 / 1.22	930. /	105. / 3182.64	7154. / 8.87	1.00 / 0.80	91. /	118. /	*IS*
AGTOP	7495 / 3183.93	3 / 0.57	594. / *****	109. / *****	5186. / 3184.50	1.25 / 5.44	0. / 0.73	124. / *****	*XS*
AH ^{AT}	7805 / 3190.69	310 / 0.53	594. / *****	102. / *****	4556. / 3191.22	1.00 / 5.85	0. / 0.98	93. / *****	*XS*
AI ^{AT}	8079 / 3193.61	274 / 0.38	594. / 2.76	120. / 0.0	7677. / 3193.99	1.00 / 4.95	0. / 0.63	62. / 0.008	*XS*
AJ ^{AT}	8119 / 3195.82	40 / 0.30	455. / *****	104. / *****	3226. / 3196.12	1.00 / 4.38	60. / 0.98	226. / *****	*XS*
AJ-AK ^{AT}	8125 / 3196.13	6 / 0.01	455. / 0.01	467. / 0.0	35694. / 3196.13	1.00 / 0.97	17. / 0.14	339. / -0.000	*XS*
AK ^{AT}	8495 / 3200.75	370 / 0.38	455. / *****	92. / *****	4594. / 3201.13	1.00 / 4.94	26. / 0.99	147. / *****	*XS*
AK-AL ^{AT}	8739 / 3204.20	244 / 0.35	455. / *****	96. / *****	3841. / 3204.55	1.00 / 4.76	3. / 0.98	136. / *****	*XS*
AL ^{AT}	8763 / 3204.45	24 / 0.23	820. / 0.15	234. / 0.0	17085. / 3204.68	1.21 / 3.50	3. / 0.28	124. / -0.020	*XS*

END OF THIS PROFILE

SEE NEXT REACH

USE 3204.7

USE 3200.75

USE 3195.82

USE 3193.61

USE 3183.93

USE 3181.42

COMPUTED WSC VALUES FOR: BOONE CREEK SECT AG TO AI OVERLAND FINAL
PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECID	AGTOP	AH	AI	AJ	AK	AK-AL
WSC	3183.93	3190.69	3193.08	3195.82	3200.75	3204.20

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK SECT AG TO AI OVERLAND FINAL
 PROFILE NUMBER 2, DOWNSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

AL	; WS TOO LOW			ASSUMED WS = WSC
AK-AL	; WS NOT FOUND BETWEEN			USED DEL = 0.25
		WS = 3204.20 & WS = 3203.30		
AK-AL	; WS NOT FOUND BETWEEN			USED KE = 0.5
		WS = 3204.20 & WS = 3203.30		
AK-AL	; WS NOT FOUND			ASSUMED WS = WSC
AK	; SUPERCRITICAL WS			COMPUTED WSA
AJ-AK	; SUPERCRITICAL WS			COMPUTED WSA
AJ	; WS NOT FOUND BETWEEN			USED DEL = 0.25
		WS = 3195.82 & WS = 3194.90		
AJ	; WS NOT FOUND BETWEEN			USED KE = 0.5
		WS = 3195.82 & WS = 3194.90		
AJ	; WS NOT FOUND			ASSUMED WS = WSC
AI	; KU/KD < 0.7 OR > 1.4			ALERTED USER
AI	; SUPERCRITICAL WS			COMPUTED WSA
AH	; WS NOT FOUND BETWEEN			USED DEL = 0.25
		WS = 3190.69 & WS = 3189.70		
AH	; WS NOT FOUND BETWEEN			USED KE = 0.5
		WS = 3190.69 & WS = 3189.70		
AH	; WS NOT FOUND			ASSUMED WS = WSC
AGTOP	; SUPERCRITICAL WS			COMPUTED WSA
AG	; KU/KD < 0.7 OR > 1.4			ALERTED USER
AG	; SUPERCRITICAL WS			COMPUTED WSA

15.12 DOWN

WATER-SURFACE PROFILE FOR: BOONE CREEK SECT AG TO AI OVERLAND FINAL
 PAGE 1 OF 1, PROFILE NUMBER 2, DOWNSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID	
AL	AT	8763 /	0 /	820. /	79. /	4551. /	1.00 /	9. /	32.
3200.47 /	1.69 /			3202.16 /	10.42 /	1.00 /			*IS*
AK-AL	AT	8739 /	-24 /	455. /	96. /	3841. /	1.00 /	3. /	134.
3204.20 /	0.35 /	*****	*****	3204.55 /	4.76 /	0.98 /	*****		*XS*
AK	AT	8495 /	-244 /	455. /	81. /	3873. /	1.00 /	27. /	140.
3200.66 /	0.49 /	3.40 /	0.0 /	3201.15 /	5.61 /	1.17 /	0.007		*XS*
AJ-AK	AT	8125 /	-370 /	455. /	80. /	3263. /	1.00 /	28. /	168.
3194.57 /	0.51 /	6.06 /	0.0 /	3195.08 /	5.70 /	1.33 /	0.006		*XS*
AJ	AT	8119 /	-6 /	455. /	104. /	3226. /	1.00 /	60. /	226.
3195.82 /	0.30 /	*****	*****	3196.12 /	4.38 /	0.98 /	*****		*XS*
AI	AT	8079 /	-40 /	594. /	51. /	2180. /	1.00 /	0. /	49.
3192.41 /	2.13 /	1.56 /	0.0 /	3194.54 /	11.70 /	2.02 /	0.011		*XS*
AH	AT	7805 /	-274 /	594. /	102. /	4556. /	1.00 /	0. /	93.
3190.69 /	0.53 /	*****	*****	3191.22 /	5.85 /	0.99 /	*****		*XS*
AGTOP	AT	7495 /	-310 /	594. /	78. /	3634. /	1.15 /	0. /	123.
3183.57 /	1.04 /	6.61 /	0.0 /	3184.62 /	7.64 /	1.40 /	-0.001		*XS*
AG	AT	7492 /	-3 /	930. /	50. /	2519. /	1.00 /	94. /	116.
3179.00 /	5.42 /	0.19 /	0.0 /	3184.42 /	18.67 /	2.19 /	0.005		*XS*

END OF THIS PROFILE

COMPUTED WSC VALUES FOR: BOONE CREEK SECT AG TO AI OVERLAND FINAL
PROFILE NUMBER 2, DOWNSTREAM COMPUTATIONS

SECID	AG	AGTOP	AH	AI	AJ	AJ-AK	AK	AK-AL
WSC	3180.57	3183.93	3190.69	3193.08	3195.82	3194.72	3200.75	3204.20

SECID	AL
WSC	3200.47

COMPUTED WSA VALUES FOR: BOONE CREEK SECT AG TO AI OVERLAND FINAL
PROFILE NUMBER 2, DOWNSTREAM COMPUTATIONS

SECID	AG	AGTOP	AI	AJ-AK	AK
WSA	3184.10	3184.35	3194.33	3194.91	3200.85

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK SECT AG TO AI OVERLAND FINAL
 PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

AGTOP; WS NOT FOUND BETWEEN	; WS = 3182.77 & WS = 3190.00;	USED DEL = 0.25
AGTOP; WS NOT FOUND BETWEEN	; WS = 3182.77 & WS = 3190.00;	USED WSMIN = WSC
AGTOP; WS NOT FOUND		ASSUMED WS = WSC
AH ; WS TOO LOW		USED WSMIN = WSC
AH ; WS NOT FOUND BETWEEN	; WS = 3191.32 & WS = 3200.00;	USED DEL = 0.25
AH ; WS NOT FOUND		ASSUMED WS = WSC
AI ; TOL FAILURE BETWEEN	; WS = 3191.07 & WS = 3191.32;	USED HIGHER WS
AJ ; WS TOO LOW		USED WSMIN = WSC
AJ ; WS NOT FOUND BETWEEN	; WS = 3196.25 & WS = 3205.60;	USED DEL = 0.25
AJ ; WS NOT FOUND		ASSUMED WS = WSC
AJ-AK; KU/KD < 0.7 OR > 1.4		ALERTED USER
AK ; WS TOO LOW		USED WSMIN = WSC
AK ; WS NOT FOUND BETWEEN	; WS = 3201.32 & WS = 3210.00;	USED DEL = 0.25
AK ; WS NOT FOUND		ASSUMED WS = WSC
AK-AL; WS TOO LOW		USED WSMIN = WSC
AK-AL; WS NOT FOUND BETWEEN	; WS = 3204.69 & WS = 3210.00;	USED DEL = 0.25
AK-AL; WS NOT FOUND		ASSUMED WS = WSC
AL ; KU/KD < 0.7 OR > 1.4		ALERTED USER

CP VP

WATER-SURFACE PROFILE FOR: BOONE CREEK SECT AG TO AI OVERLAND FINAL
 PAGE 1 OF 1, PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

SECID	AT	DISTANCE/ WS ELEV	LENGTH/ HV	DISCHARGE/ HF	AREA/ HE	CONVEYANCE/ EG	ALPHA/ V	LEW/ FN	REW/ ACC	*ID*
AG	AT	7492 / 3183.02	0 / 1.55	1520. /	152. / 3184.57	11999. / 9.98	1.00 / 0.80	88. /	122. /	*IS*
AGTOP	AT	7495 / 3184.63	3 / 0.68	1195. / *****	193. / *****	10458. / 6.19	1.14 / 0.76	0. / *****	125. /	*XS*
AH	AJ	7805 / 3191.32	310 / 0.86	1195. / *****	161. / *****	9675. / 7.43	1.00 / 1.00	0. / *****	94. /	*XS*
AI	AK	8079 / 3194.42	274 / 0.77	1195. / 3.00	170. / 0.0	13500. / 7.03	1.00 / 0.75	0. / 0.007	62. /	*XS*
AJ	AL	8119 / 3196.25	40 / 0.48	989. / *****	179. / *****	7418. / 5.54	1.00 / 0.99	53. / *****	329. /	*XS*
AJ-AL	AK	8125 / 3196.71	6 / 0.03	989. / 0.01	660. / 0.0	62556. / 1.50	1.00 / 0.19	13. / -0.000	342. /	*XS*
AK	AM	8495 / 3201.32	370 / 0.50	989. / *****	174. / *****	10533. / 5.68	1.00 / 0.99	23. / *****	236. /	*XS*
AK-AL	AN	8739 / 3204.69	244 / 0.55	989. / *****	167. / *****	8737. / 5.92	1.00 / 1.00	3. / *****	156. /	*XS*
AL	AO	8763 / 3205.06	24 / 0.33	1350. / 0.16	320. / 0.0	23425. / 4.22	1.20 / 0.34	2. / -0.004	156. /	*XS*

Profile computed
 at this time is OK

(DENVER) 3185.50

UNIT OK

(DENVER) 3195.50

UNIT OK

OK

(DENVER) 3201.50

UNIT OK

(DENVER) 3205.40

UNIT OK

END OF THIS PROFILE

COMPUTED WSC VALUES FOR: BOONE CREEK SECT AG TO AI OVERLAND. FINAL
PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

SECID	AGTOP	AH	AJ	AK	AK-AL
WSC	3184.63	3191.32	3196.25	3201.32	3204.69

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK SECT AG TO AI OVERLAND FINAL
 PROFILE NUMBER 4, DOWNSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

AL	; WS TOO LOW				
AK-AL	; WS NOT FOUND BETWEEN			ASSUMED WS = WSC	
		; WS = 3204.69 & WS = 3203.30;			
AK-AL	; WS NOT FOUND BETWEEN			USED DEL = 0.25	
		; WS = 3204.69 & WS = 3203.30;			
AK-AL	; WS NOT FOUND			USED KE = 0.5	
AK	; SUPERCRITICAL WS			ASSUMED WS = WSC	
AJ-AK	; SUPERCRITICAL WS			COMPUTED WSA	
AJ	; WS NOT FOUND BETWEEN			COMPUTED WSA	
		; WS = 3196.25 & WS = 3194.90;			
AJ	; WS NOT FOUND BETWEEN			USED DEL = 0.25	
		; WS = 3196.25 & WS = 3194.90;			
AJ	; WS NOT FOUND			USED KE = 0.5	
AI	; SUPERCRITICAL WS			ASSUMED WS = WSC	
AH	; WS NOT FOUND BETWEEN			COMPUTED WSA	
		; WS = 3191.32 & WS = 3189.70;			
AH	; WS NOT FOUND BETWEEN			USED DEL = 0.25	
		; WS = 3191.32 & WS = 3189.70;			
AH	; WS NOT FOUND			USED KE = 0.5	
AGTOP	; SUPERCRITICAL WS			ASSUMED WS = WSC	
AG	; SUPERCRITICAL WS			COMPUTED WSA	
				COMPUTED WSA	

WATER-SURFACE PROFILE FOR: BOONE CREEK SECT AG TO AI OVERLAND FINAL
 PAGE 1 OF 1, PROFILE NUMBER 4, DOWNSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID*	
AL	AT	8763 /	0 /	1350. /	113. /	7641. /	1.00 /	7. /	32.
3201.88 /	2.23 /			3204.11 /	11.96 /	1.00 /			*IS*
AK-AL	AT	8739 /	-24 /	989. /	167. /	8737. /	1.00 /	3. /	156.
3204.69 /	0.55 /	***** /	***** /	3205.23 /	5.92 /	1.00 /	***** /		*XS*
AK	AT	8495 /	-244 /	989. /	142. /	9152. /	1.00 /	24. /	235.
3201.12 /	0.76 /	3.35 /	0.0 /	3201.88 /	6.97 /	1.26 /	0.005 /		*XS*
AJ-AK	AT	8125 /	-370 /	989. /	147. /	7160. /	1.00 /	25. /	224.
3194.97 /	0.70 /	6.20 /	0.0 /	3195.67 /	6.72 /	1.38 /	0.005 /		*XS*
AJ	AT	8119 /	-6 /	989. /	179. /	7418. /	1.00 /	53. /	329.
3196.25 /	0.48 /	***** /	***** /	3196.73 /	5.54 /	0.99 /	***** /		*XS*
AI	AT	8079 /	-40 /	1195. /	98. /	5541. /	1.00 /	0. /	62.
3193.26 /	2.31 /	1.16 /	0.0 /	3195.56 /	12.17 /	1.71 /	0.003 /		*XS*
AH	AT	7805 /	-274 /	1195. /	161. /	9675. /	1.00 /	0. /	94.
3191.32 /	0.86 /	***** /	***** /	3192.18 /	7.43 /	1.00 /	***** /		*XS*
AGTOP	AT	7495 /	-310 /	1195. /	143. /	6949. /	1.26 /	0. /	125.
3184.22 /	1.38 /	6.58 /	0.0 /	3185.60 /	8.37 /	1.54 /	-0.002 /		*XS*
AG	AT	7492 /	-3 /	1520. /	87. /	5866. /	1.00 /	94. /	116.
3180.68 /	4.77 /	0.14 /	0.0 /	3185.45 /	17.51 /	1.55 /	0.014 /		*XS*

END OF THIS PROFILE

COMPUTED WSC VALUES FOR: BOONE CREEK SECT AG TO AI OVERLAND FINAL
PROFILE NUMBER 4, DOWNSTREAM COMPUTATIONS

SECID	AG	AGTOP	AH	AI	AJ	AJ-AK	AK	AK-AL
WSC	3182.27	3184.63	3191.32	3193.95	3196.25	3195.19	3201.32	3204.69

SECID	AL
WSC	3201.88

COMPUTED WSA VALUES FOR: BOONE CREEK SECT AG TO AI OVERLAND FINAL
PROFILE NUMBER 4, DOWNSTREAM COMPUTATIONS

SECID	AG	AGTOP	AI	AJ-AK	AK
WSA	3185.11	3185.30	3195.06	3195.44	3201.54

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK SECT AG TO AI OVERLAND FINAL
 PROFILE NUMBER 5, UPSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

AGTOP; WS NOT FOUND BETWEEN	; WS = 3183.55 & WS = 3190.00;	USED DEL = 0.25
AGTOP; WS NOT FOUND BETWEEN	; WS = 3183.55 & WS = 3190.00;	USED WSMIN = WSC
AGTOP; WS NOT FOUND		ASSUMED WS = WSC
AH ; WS TOO LOW		USED WSMIN = WSC
AH ; WS NOT FOUND BETWEEN	; WS = 3191.57 & WS = 3200.00;	USED DEL = 0.25
AH ; WS NOT FOUND		ASSUMED WS = WSC
AJ ; WS TOO LOW		USED WSMIN = WSC
AJ ; WS NOT FOUND BETWEEN	; WS = 3196.42 & WS = 3205.60;	USED DEL = 0.25
AJ ; WS NOT FOUND		ASSUMED WS = WSC
AJ-AK; KU/KD < 0.7 OR > 1.4		ALERTED USER
AK ; WS TOO LOW		USED WSMIN = WSC
AK ; WS NOT FOUND BETWEEN	; WS = 3201.52 & WS = 3210.00;	USED DEL = 0.25
AK ; WS NOT FOUND		ASSUMED WS = WSC
AK-AL; WS TOO LOW		USED WSMIN = WSC
AK-AL; WS NOT FOUND BETWEEN	; WS = 3204.87 & WS = 3210.00;	USED DEL = 0.25
AK-AL; WS NOT FOUND		ASSUMED WS = WSC
AL ; KU/KD < 0.7 OR > 1.4		ALERTED USER

100%K

WATER-SURFACE PROFILE FOR: BOONE CREEK SECT AG TO AI OVERLAND FINAL
 PAGE 1 OF 1, PROFILE NUMBER 5, UPSTREAM COMPUTATIONS

SECT	AT	WS ELEV	HV	HF	HE	EG	V	FN	ACC	REW	ID
AG	AT	7492 / 3183.80	0 / 1.43	1780. /	199. /	15443. /	1.15 /	0. /	124. /		*IS*
AG	TOP	7495 / 3184.83	3 / 0.77	1460. /	218. /	12436. /	1.10 /	0. /	126. /		*XS*
AH	U	7805 / 3191.57	310 / 0.98	1460. /	184. /	12059. /	1.00 /	0. /	94. /		*XS*
AI	AK	8079 / 3194.69	274 / 0.95	1460. /	187. /	15701. /	1.00 /	0. /	62. /		*XS*
AJ	AK	8119 / 3196.42	40 / 0.53	1230. /	210. /	9404. /	1.00 /	51. /	333. /		*XS*
AJ	AK	8125 / 3196.92	6 / 0.04	1230. /	730. /	73522. /	1.00 /	12. /	343. /		*XS*
AK	AK	8495 / 3201.52	370 / 0.54	1230. /	209. /	13296. /	1.00 /	21. /	236. /		*XS*
AK	AL	8739 / 3204.87	244 / 0.62	1230. /	195. /	11199. /	1.00 /	2. /	190. /		*XS*
AL	AL	8763 / 3205.29	24 / 0.36	1590. /	355. /	26660. /	1.15 /	2. /	191. /		*XS*

END OF THIS PROFILE

Profile computed in this area

136 WDA 486150

136 WDA 486150

136 WDA 486150

OK

136 WDA 486150

136 WDA 486150

136 WDA 486150

136 WDA 486150

COMPUTED WSC VALUES FOR: BOONE CREEK SECT AG TO AI OVERLAND FINAL
PROFILE NUMBER 5, UPSTREAM COMPUTATIONS

SECID	AGTOP	AH	AJ	AK	AK-AL
WSC	3184.83	3191.57	3196.42	3201.52	3204.87

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK SECT AG TO AI OVERLAND FINAL
 PROFILE NUMBER 6, DOWNSTREAM COMPUTATIONS

SECID: ERROR(WARNING) MESSAGE: INTERMEDIATE RESULTS(IF ANY): ACTION TAKEN

AL	: WS TOO LOW				ASSUMED WS = WSC
AK-AL	: WS NOT FOUND BETWEEN	; WS = 3204.87 & WS = 3203.30;			USED DEL = 0.25
AK-AL	: WS NOT FOUND BETWEEN	; WS = 3204.87 & WS = 3203.30;			USED KE = 0.5
AK-AL	: WS NOT FOUND				ASSUMED WS = WSC
AK	: SUPERCRITICAL WS				COMPUTED WSA
AJ-AK	: SUPERCRITICAL WS				COMPUTED WSA
AJ	: WS NOT FOUND BETWEEN	; WS = 3196.42 & WS = 3194.90;			USED DEL = 0.25
AJ	: WS NOT FOUND BETWEEN	; WS = 3196.42 & WS = 3194.90;			USED KE = 0.5
AJ	: WS NOT FOUND				ASSUMED WS = WSC
AI	: SUPERCRITICAL WS				COMPUTED WSA
AH	: WS NOT FOUND BETWEEN	; WS = 3191.57 & WS = 3189.70;			USED DEL = 0.25
AH	: WS NOT FOUND BETWEEN	; WS = 3191.57 & WS = 3189.70;			USED KE = 0.5
AH	: WS NOT FOUND				ASSUMED WS = WSC
AGTOP	: KU/KD < 0.7 OR > 1.4				ALERTED USER
AGTOP	: SUPERCRITICAL WS				COMPUTED WSA
AG	: SUPERCRITICAL WS				COMPUTED WSA

100 ft. Down

WATER-SURFACE PROFILE FOR: BOONE CREEK, SECT AG TO AI OVERLAND FINAL
 PAGE 1 OF 1. PROFILE NUMBER 6, DOWNSTREAM COMPUTATIONS

SECT	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REN
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID*	
AL	AT	8763	0	1590.	127.	9078.	1.00	6.	32.
3202.45	2.42			3204.87	12.48	1.00			*IS*
AK-AL	AT	8739	-24	1230.	195.	1199.	1.00	2.	190.
3204.87	0.62	*****	*****	3205.49	6.31	1.00	*****		*XS*
AK	AT	8495	-244	1230.	164.	9803.	1.00	23.	236.
3201.27	0.87	3.36	0.0	3202.14	7.48	1.32	-0.010		*XS*
AJ-AK	AT	8125	-370	1230.	177.	9108.	1.00	24.	335.
3195.11	0.75	6.27	0.0	3195.86	6.94	1.37	0.004		*XS*
AJ	AT	8119	-6	1230.	210.	9404.	1.00	51.	333.
3196.42	0.53	*****	*****	3196.95	5.86	0.99	*****		*XS*
AI	AT	8079	-40	1460.	119.	7594.	1.00	0.	62.
3193.60	2.34	1.01	0.0	3195.93	12.26	1.56	0.003		*XS*
AH	AT	7805	-274	1460.	184.	12059.	1.00	0.	94.
3191.57	0.98	*****	*****	3192.55	7.93	1.00	*****		*XS*
AGTOP	AT	7495	-310	1460.	163.	8245.	1.21	0.	125.
3184.39	1.51	6.65	0.0	3185.90	8.97	1.52	0.005		*XS*
AG	AT	7492	-3	1780.	109.	7421.	1.00	91.	119.
3181.53	4.24	0.13	0.0	3185.77	16.51	1.47	0.003		*XS*

END OF THIS PROFILE

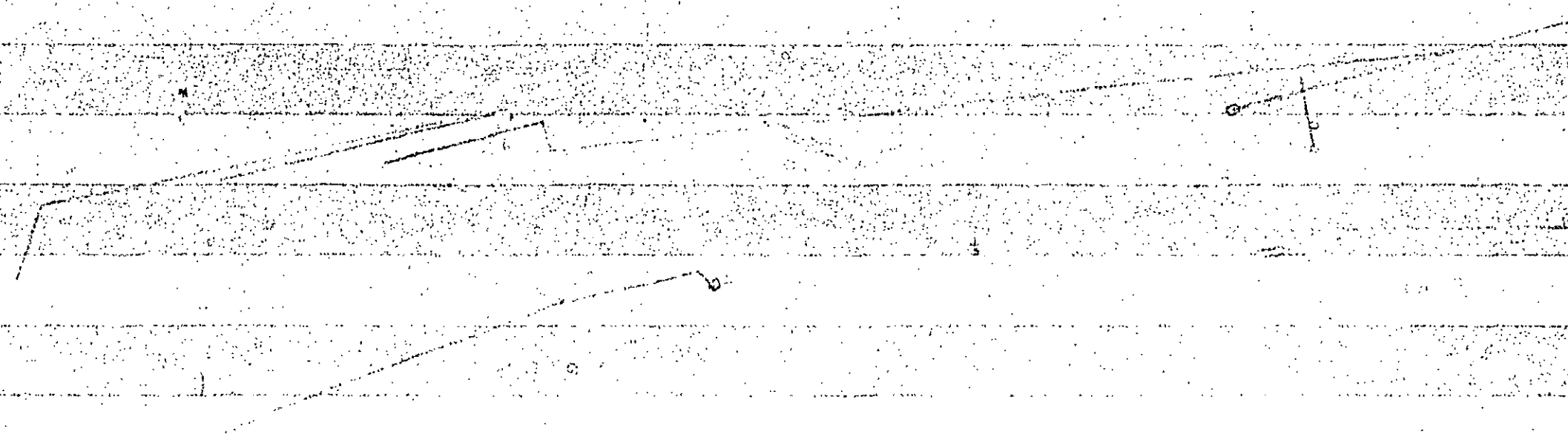
COMPUTED WSC VALUES FOR: BOONE CREEK SECT AG TO AI OVERLAND FINAL
PROFILE NUMBER 6, DOWNSTREAM COMPUTATIONS

SECID	AG	AGTOP	AH	AI	AJ	AJ-AK	AK	AK-AL
WSC	3182.80	3184.83	3191.57	3194.26	3196.42	3195.34	3201.52	3204.87

SECID	AL
WSC	3202.45

COMPUTED WSA VALUES FOR: BOONE CREEK SECT AG TO AI OVERLAND FINAL
PROFILE NUMBER 6, DOWNSTREAM COMPUTATIONS

SECID	AG	AGTOP	AI	AJ-AK	AK
WSA	3185.39	3185.53	3195.29	3195.61	3201.82



PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK SECT AG TO AI OVERLAND FINAL
 PROFILE NUMBER 70 UPSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

AGTOP; WS NOT FOUND BETWEEN	; WS = 3184.29 & WS = 3190.00;	USED DEL = 0.25
AGTOP; WS NOT FOUND BETWEEN	; WS = 3184.29 & WS = 3190.00;	USED WSMIN = WSC
AGTOP; WS NOT FOUND		ASSUMED WS = WSC
AH ; WS TOO LOW		USED WSMIN = WSC
AH ; WS NOT FOUND BETWEEN	; WS = 3192.19 & WS = 3200.00;	USED DEL = 0.25
AH ; WS NOT FOUND		ASSUMED WS = WSC
AJ ; FRDN FAILURE	; WS = 3195.75 & FR = 4.92;	USED HIGHER WS
AJ ; FRDN FAILURE	; WS = 3196.40 & FR = 1.59;	USED HIGHER WS
AJ ; WS NOT FOUND BETWEEN	; WS = 3195.32 & WS = 3205.60;	USED DEL = 0.25
AJ ; FRDN FAILURE	; WS = 3195.75 & FR = 4.93;	USED HIGHER WS
AJ ; FRDN FAILURE	; WS = 3196.40 & FR = 1.60;	USED HIGHER WS
AJ ; WS NOT FOUND BETWEEN	; WS = 3195.32 & WS = 3205.60;	USED WSMIN = WSC
AJ ; WS NOT FOUND		ASSUMED WS = WSC
AJ-AK; KU/KD < 0.7 OR > 1.4		ALERTED USER
AK ; WS TOO LOW		USED WSMIN = WSC
AK ; WS NOT FOUND BETWEEN	; WS = 3201.90 & WS = 3210.00;	USED DEL = 0.25
AK ; WS NOT FOUND		ASSUMED WS = WSC
AK-AL; WS TOO LOW		USED WSMIN = WSC
AK-AL; WS NOT FOUND BETWEEN	; WS = 3205.31 & WS = 3210.00;	USED DEL = 0.25
AK-AL; WS NOT FOUND		ASSUMED WS = WSC
AL ; KU/KD < 0.7 OR > 1.4		ALERTED USER

5042

WATER-SURFACE PROFILE FOR: BOONE CREEK SECT AG TO AI OVERLAND FINAL
 PAGE 1 OF 1, PROFILE NUMBER 7, UPSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW	
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID		
<i>CUT OK</i>	AG	AT	7492	0	2510.	284.	21406.	1.26	0.	125.
3184.54	1.53				3186.07	8.85	0.76		*IS*	
<i>182072 3166.19</i>	AGTOP	AT	7495	3	2190.	276.	17716.	1.05	-2.	127.
3185.29	1.02	*****	*****		3186.31	7.93	0.84	*****	*XS*	
<i>CUT OK</i>	AH	AT	7805	310	2190.	243.	18859.	1.00	0.	95.
3192.19	1.27	*****	*****		3193.46	9.03	1.00	*****	*XS*	
<i>182072 3175.02</i>	AI	AT	8079	274	2190.	249.	21052.	1.00	0.	99.
3195.57	1.20	3.31	0.0		3196.77	8.79	0.89	0.008	*XS*	
<i>CUT OK</i>	AJ	AT	8119	40	1890.	293.	14932.	1.00	44.	343.
3196.82	0.65	*****	*****		3197.47	6.44	0.98	*****	*XS*	
<i>OK</i>	AJ-AK	AT	8125	6	1890.	896.	102177.	1.00	9.	346.
3197.41	0.07	0.01	0.0		3197.48	2.11	0.23	-0.000	*XS*	
<i>NEWSP 3202.34</i>	AK	AT	8495	370	1890.	290.	20798.	1.00	19.	238.
3201.90	0.66	*****	*****		3202.56	6.52	1.00	*****	*XS*	
<i>CUT OK</i>	AK-AL	AT	8739	244	1890.	266.	18084.	1.00	2.	193.
3205.31	0.78	*****	*****		3206.10	7.10	0.99	*****	*XS*	
<i>USE 3206.02</i>	AL	AT	8763	24	2250.	441.	35299.	1.07	1.	194.
3205.81	0.44	0.16	0.0		3206.25	5.11	0.39	-0.010	*XS*	

SEE NEXT PAGE

END OF THIS PROFILE

COMPUTED WSC VALUES FOR: BOONE CREEK SECT AG TO AI OVERLAND FINAL
PROFILE NUMBER 7, UPSTREAM COMPUTATIONS

SECID	AGTOP	AH	AJ	AK	AK-AL
WSC	3185.29	3192.19	3196.82	3201.90	3205.31

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK SECT AG TO AI OVERLAND FINAL
 PROFILE NUMBER 8, DOWNSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

AL	; WS TOO LOW			ASSUMED WS = WSC
AK-AL	; WS NOT FOUND BETWEEN	WS = 3205.31 & WS = 3203.30		USED DEL = 0.25
AK-AL	; WS NOT FOUND BETWEEN	WS = 3205.31 & WS = 3203.30		USED KE = 0.5
AK-AL	; WS NOT FOUND			ASSUMED WS = WSC
AK	; SUPERCRITICAL WS			COMPUTED WSA
AJ-AK	; SUPERCRITICAL WS			COMPUTED WSA
AJ	; WS NOT FOUND BETWEEN	WS = 3196.82 & WS = 3194.90		USED DEL = 0.25
AJ	; WS NOT FOUND BETWEEN	WS = 3196.82 & WS = 3194.90		USED KE = 0.5
AJ	; WS NOT FOUND			ASSUMED WS = WSC
AI	; SUPERCRITICAL WS			COMPUTED WSA
AH	; WS NOT FOUND BETWEEN	WS = 3192.19 & WS = 3189.70		USED DEL = 0.25
AH	; WS NOT FOUND BETWEEN	WS = 3192.19 & WS = 3189.70		USED KE = 0.5
AH	; WS NOT FOUND			ASSUMED WS = WSC
AGTOP	; KU/KD < 0.7 OR > 1.4			ALERTED USER
AGTOP	; SUPERCRITICAL WS			COMPUTED WSA
AG	; SUPERCRITICAL WS			COMPUTED WSA

320142

WATER-SURFACE PROFILE FOR: BOONE CREEK SECT AG TO AI OVERLAND FINAL
 PAGE 1 OF 1, PROFILE NUMBER B, DOWNSTREAM COMPUTATIONS

SECT	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID*	
AL	AT	8763	0	2250.	327.	24042.	1.19	2.	157.
3205.11	0.87				3205.98	6.88	0.91		*IS*
AK-AL	AT	8739	-24	1890.	266.	18084.	1.00	2.	193.
3205.31	0.78	*****	*****		3206.10	7.10	0.99	*****	*XS*
AK	AT	8495	-244	1890.	223.	14277.	1.00	21.	237.
3201.59	1.12	3.38	0.0		3202.71	8.47	1.41	0.013	*XS*
AJ-AK	AT	8125	-370	1890.	254.	14411.	1.00	22.	336.
3195.43	0.86	6.42	0.0		3196.28	7.43	1.36	-0.000	*XS*
AJ	AT	8119	-6	1890.	293.	14932.	1.00	44.	343.
3196.82	0.65	*****	*****		3197.47	6.44	0.99	*****	*XS*
AI	AT	8079	-40	2190.	194.	16715.	1.00	0.	80.
3194.81	1.98	0.67	0.0		3196.79	11.27	1.12	0.015	*XS*
AH	AT	7805	-274	2190.	243.	18859.	1.00	0.	95.
3192.19	1.27	*****	*****		3193.46	9.03	1.00	*****	*XS*
ASTOP	AT	7495	-310	2190.	208.	11635.	1.11	0.	126.
3184.75	1.92	6.78	0.0		3186.67	10.53	1.52	0.010	*XS*
AG	AT	7492	-3	2510.	205.	15869.	1.17	0.	124.
3183.87	2.72	0.09	0.0		3186.59	12.21	1.60	-0.006	*XS*

END OF THIS PROFILE

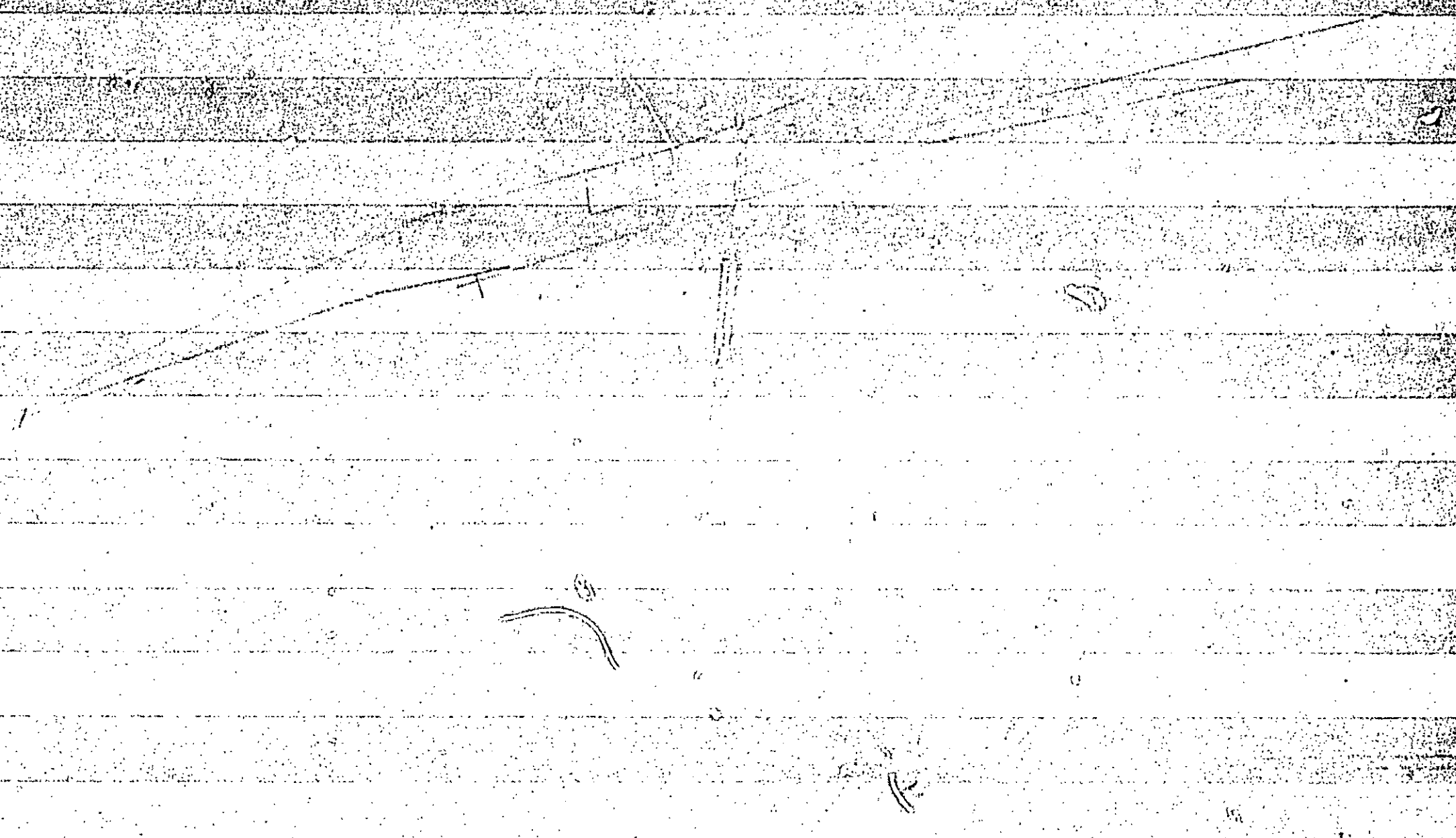
COMPUTED WSC VALUES FOR: BOONE CREEK SECT AG TO AI OVERLAND FINAL
PROFILE NUMBER 8, DOWNSTREAM COMPUTATIONS

SECID	AG	AGTOP	AH	AI	AJ	AJ-AK	AK	AK-AL
WSC	3184.87	3185.29	3192.19	3195.22	3196.82	3196.66	3201.90	3205.31

SECID	AL
WSC	3205.11

COMPUTED WSA VALUES FOR: BOONE CREEK SECT AG TO AI OVERLAND FINAL
PROFILE NUMBER 8, DOWNSTREAM COMPUTATIONS

SECID	AG	AGTOP	AI	AJ-AK	AK
WSA	3186.16	3188.19	3195.62	3195.97	3202.34



FINAL ~~AL-AD~~

AN-AD

67
20100
70

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8
1	1	BOONE CREEK OVERLAND FLOW AL TO AO	2ND TRY	7	8	01	99	10
2	2	320445 -99999 320506 -99999 320529 -99999 320581 -99999						
3	3	AL 1 18 2 3198 8763 99 99						
4	4	3001 820 820 1350 1350 1590 1590 2250 2250						
5	5	3005 -30 1 32100 0 1 32067 10 1 31994 15 1 31981 17 1 31966						
5	5	3005 22 1 31954 25 1 31965 29 1 31963 31 1 31954 32 2 32031						
5	5	3007 38 2 32035 100 2 32041 148 2 32048 155 2 32049 165 2 32062						
5	5	3008 185 2 32061 190 2 32052 220 2 32100						
6	6	3010 2 050 050 1 2 030 030						
3	3	3100 TOP 1 11 2 3204 8766 99 99						
4	4	3101 610 1145 1145 1370 1370 2040 2040						
5	5	3105 -30 1 32100 0 1 32067 32 1 32031 38 2 32035 100 2 32041						
5	5	3106 148 2 32048 155 2 32049 165 2 32062 185 2 32061 190 2 32052						
5	5	3107 226 2 32100						
6	6	3110 1 2 050 050 1 2 030 030						
3	3	3200 AM 0 13 1 3206 8904 99 99						
5	5	3205 AD 45 1 32200 45 1 32080 70 1 32063 75 1 32058 100 1 32061						
5	5	3206 112 1 32069 120 1 32086 135 1 32086 156 1 32080 172 1 32065						
5	5	3207 222 1 32089 267 1 32114 330 1 32160						
6	6	3210 1 2 045 045						
3	3	3300 BC-BD 0 12 1 3209 8974 99 99						
5	5	3305 AV 0 1 32200 0 1 32090 6 1 32088 10 1 32083 24 1 32087						
5	5	3306 40 1 32092 49 1 32090 51 1 32105 56 1 32109 80 1 32110						
5	5	3307 106 1 32116 200 1 32150						
6	6	3310 1 2 045 045						
3	3	3400 ROAD 0 8 1 3209 9030 99 99						
5	5	3405 -15 1 32136 35 1 32091 75 1 32086 135 1 32099 170 1 32102						
5	5	3406 187 1 32096 195 1 32106 201 1 32135						
6	6	3410 1 2 040 040						
3	3	3500 AM 1 16 3 3205 9059 99 99						
4	4	3501 HP 820 820 1350 1350 1590 1590 2250 2250						
5	5	3505 0 1 32126 30 1 32114 58 2 32114 63 2 32088 68 2 32062						
5	5	3506 70 2 32043 74 2 32041 79 2 32043 81 2 32055 98 2 32095						
5	5	3507 110 3 32109 154 3 32109 175 3 32104 187 3 32098 195 3 32108						
5	5	3508 201 3 32137						
6	6	3510 1 2 100 100 1 4 045 040 1 2 045 045						
3	3	3600 AO 0 15 2 3207 9140 99 99						
5	5	3605 HP 0 1 32158 0 1 32138 6 1 32133 10 1 32072 12 1 32067						
5	5	3606 23 1 32069 27 1 32090 33 2 32131 50 2 32124 80 2 32123						
5	5	3607 97 2 32135 121 2 32139 124 2 32133 160 2 32148 180 2 32158						
6	6	3610 1 2 050 050 1 2 045 045						

Handwritten notes and signatures:
 AM - HP
 [Signature]

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 2, DATE=10/13/77

INPUT SUMMARY FOR: BOONE CREEK OVERLAND FLOW AL TO A0 2ND TRY

7 CROSS SECTIONS SPECIFIED (OR ASSUMED)

FOUND 7 TYPE 3 CARDS

KEPT 7 CROSS SECTIONS FOR EDITING

7 " " VALID FOR PROPERTY COMPUTATIONS

7 " " " " PROFILE " "

CROSS-SECTION PROPERTIES FOR: BOONE CREEK OVERLAND FLOW AL TO AO 2ND TRY
 SECID= AL AT DISTANCE= 8763 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3198.0	29	1102	1.00	16	19	15	31	216
3207.9	857	88252	1.01	218	229	-10	207	9587
3210.0	1349	175014	1.09	250	261	-29	220	16993

CROSS-SECTION PROPERTIES FOR: BOONE CREEK OVERLAND FLOW AL TO AO 2ND TRY
 SECID=ALTOP AT DISTANCE= 8766 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3204.0	21	412	1.00	86	66	24	90	66
3210.0	1155	148056	1.15	250	251	-29	220	13146

CROSS-SECTION PROPERTIES FOR: BOONE CREEK OVERLAND FLOW AL TO AO 2ND TRY
 SECID=AM AT DISTANCE= 8904 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3206.0	2	13	1.00	19	19	73	92	3
3215.9	1910	221077	1.00	284	292	45	329	28110
3220.0	3078	479548	1.00	285	302	45	330	57384

CROSS-SECTION PROPERTIES FOR: BOONE CREEK OVERLAND FLOW AL TO AO 2ND TRY
 SECID=BC-BD AT DISTANCE= 8974 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3209.0	11	170	1.00	34	34	0	34	35
3218.9	1469	175388	1.00	200	214	0	200	22574
3220.0	1689	219829	1.00	200	217	0	200	27832

CROSS-SECTION PROPERTIES FOR: BOONE CREEK OVERLAND FLOW AL TO AO 2ND TRY
 SECID=ROAD AT DISTANCE= 9030 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3209.0	10	129	1.00	50	50	43	93	26
3213.6	788	69357	1.00	216	217	-14	201	8539

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 4, DATE=10/13/77

CROSS-SECTION PROPERTIES FOR: BOONE CREEK OVERLAND FLOW AL TO AO 2ND TRY
SECID=AN AT DISTANCE= 9059 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3205.0	8	204	1.00	11	11	69	80	38
3213.7	698	58534	1.52	201	206	0	201	5984

CROSS-SECTION PROPERTIES FOR: BOONE CREEK OVERLAND FLOW AL TO AO 2ND TRY
SECID=AO AT DISTANCE= 9140 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3207.0	2	24	1.00	12	12	11	23	6
3215.8	547	38375	1.16	180	187	0	180	5013

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8
.....	5.....	1.....	5.....	0.....	5.....	0.....	5.....	0.....
7 3711				0	2	0	2	0
8 3712				0	0	0	0	0

PAGE 1 OF PROFILE NOTES FOR: HOONE CREEK OVERLAND FLOW AL TO AO 2ND TRY
PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

ALTOP; WS NOT FOUND BETWEEN	; WS = 3204.20 & WS = 3210.00;	USED DEL = 0.25
ALTOP; WS NOT FOUND BETWEEN	; WS = 3204.20 & WS = 3210.00;	USED WSMIN = WSC
ALTOP; WS NOT FOUND	;	ASSUMED WS = WSC
AM ; WS TOO LOW	;	USED WSMIN = WSC
BC-BD; WS TOO LOW	;	USED WSMIN = WSC
BC-BD; WS NOT FOUND BETWEEN	; WS = 3210.49 & WS = 3220.00;	USED DEL = 0.25
BC-BD; WS NOT FOUND	;	ASSUMED WS = WSC
ROAD ; KU/KD < 0.7 OR > 1.4	;	ALERTED USER
AO ; KU/KD < 0.7 OR > 1.4	;	ALERTED USER

WATER-SURFACE PROFILE FOR: BOONE CREEK OVERLAND FLOW AL TO A0 2ND TRY
 PAGE 1 OF 3, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECTION	AT	WS ELEV	HV	HF	HE	EG	V	FN	ACC	REMARKS
AL	AT	8763	0	820	234	17081	1.21	3	124	
		3204.45	0.23			3204.68	3.50	0.28		*IS*
ALTOP	AT	8766	3	610	117	4706	1.03	16	155	
		3204.92	0.46	*****	****	3205.36	5.21	1.09	*****	*XS*
AK	AT	8904	138	610	112	3017	1.00	48	198	
		3207.77	0.46	2.86	0.01	3208.23	5.43	0.94	0.001	*XS*
BC-BD	AT	8974	70	610	84	3706	1.00	0	51	
		3210.49	0.82	*****	*****	3211.31	7.25	1.00	*****	*XS*
BD	AT	9030	56	610	369	21407	1.00	8	197	
		3211.53	0.04	0.20	0.0	3211.57	1.69	0.21	0.001	*XS*
AN	AT	9059	29	820	275	19009	1.38	28	198	
		3211.69	0.19	0.03	0.07	3211.60	2.99	0.33	0.001	*XS*
A0	AT	9140	81	820	82	5191	1.00	7	30	
		3211.84	1.56	0.53	0.69	3212.90	10.02	0.44	0.002	*XS*

END OF THIS PROFILE

10/13/77
 WATER-SURFACE PROFILE FOR: BOONE CREEK OVERLAND FLOW AL TO AD 2ND TRY
 PAGE 1 OF 1, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECID	AT DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	*ID*
AL	AT 8763	0	820.	234.	17081.	1.21	3.	124.
	3204.45	0.23		3204.68	3.50	0.28		*IS*
ALTOP	AT 8766	3	610.	117.	4706.	1.03	16.	155.
	3204.92	0.44	*****	*****	3205.36	5.21	1.09	***** *XS*
AM	AT 8964	138	610.	112.	3817.	1.00	48.	198.
	3207.77	0.46	2.86	0.01	3208.23	5.43	0.94	0.001 *XS*
BC-BD	AT 8974	70	610.	84.	3786.	1.00	0.	51.
	3210.49	0.82	*****	*****	3211.31	7.25	1.00	***** *XS*
ROAD	AT 9030	56	610.	369.	21407.	1.00	8.	197.
	3211.53	0.04	0.26	0.0	3211.57	1.65	0.21	0.001 *XS*
AN	AT 9059	29	820.	275.	19809.	1.36	28.	196.
	3211.49	0.19	0.03	0.07	3211.68	2.99	0.33	-0.001 *XS*
AD	AT 9140	81	820.	82.	5151.	1.00	7.	30.
	3211.34	1.56	0.53	0.69	3212.90	10.02	0.94	-0.002 *XS*

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 8, DATE=10/13/77

COMPUTED WSC VALUES FOR: BOONE CREEK OVERLAND FLOW AL TO AD 2ND TRY
PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECID	ALTOP	AM	BC-80
WSC	3204.92	3207.71	3210.49

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK OVERLAND FLOW AL TO AO 2ND TRY
 PROFILE NUMBER 2, DOWNSTREAM COMPUTATIONS

SECID: ERROR(WARNING) MESSAGE: INTERMEDIATE RESULTS(IF ANY): ACTION TAKEN

AO	:	WS TOO LOW	:		:	ASSUMED WS = WSC
AN	:	SUPERCritical WS	:		:	COMPUTED WSA
ROAD	:	WS NOT FOUND BETWEEN	:	WS = 3210.17 & WS = 3208.80;	:	USED DEL = 0.25
ROAD	:	WS NOT FOUND BETWEEN	:	WS = 3210.17 & WS = 3208.80;	:	USED KE = 0.5
ROAD	:	WS NOT FOUND	:		:	ASSUMED WS = WSC
BC-BD	:	WS NOT FOUND BETWEEN	:	WS = 3210.49 & WS = 3208.50;	:	USED DEL = 0.25
BC-BD	:	WS NOT FOUND BETWEEN	:	WS = 3210.49 & WS = 3208.50;	:	USED KE = 0.5
BC-BD	:	WS NOT FOUND	:		:	ASSUMED WS = WSC
AM	:	KU/KD < 0.7 OR > 1.4	:		:	ALERTED USER
AM	:	SUPERCritical WS	:		:	COMPUTED WSA
ALTOP	:	WS NOT FOUND BETWEEN	:	WS = 3204.92 & WS = 3203.30;	:	USED DEL = 0.25
ALTOP	:	WS NOT FOUND BETWEEN	:	WS = 3204.92 & WS = 3203.30;	:	USED KE = 0.5
ALTOP	:	WS NOT FOUND	:		:	ASSUMED WS = WSC
AL	:	KU/KD < 0.7 OR > 1.4	:		:	ALERTED USER
AL	:	SUPERCritical WS	:		:	COMPUTED WSA

10 4/4
 WATER SURFACE PROFILE FOR: BOONE CREEK OVERLAND FLOW AL TO AO 2ND TRY
 PAGE 1 OF 1, PROFILE NUMBER 2, DOWNSTREAM COMPUTATIONS

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=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
AO AT 9140 / 0 / 820. / 78. / 4840. / 1.00 / 7. / 30.
3211.18 / 1.71 / / 3212.89 / 10.47 / 1.00 / *IS*
-----
AN AT 9059 / -81 / 820. / 72. / 4442. / 1.00 / 64. / 93.
3208.36 / 1.99 / 2.53 / 0.0 / 3210.35 / 11.32 / 1.27 / 0.002 *XS*
-----
ROAD AT 9030. / -29 / 610. / 125. / 3872. / 1.00 / 23. / 192.
3210.17 / 0.37 /***** /***** / 3210.54 / 4.88 / 0.99 /***** *XS*
-----
BC-BD AT 8974 / -56 / 610. / 84. / 3786. / 1.00 / 0. / 51.
3210.49 / 0.82 /***** /***** / 3211.31 / 7.25 / 1.00 /***** *XS*
-----
AM AT 8904 / -70 / 610. / 78. / 2343. / 1.00 / 54. / 191.
3207.42 / 0.95 / 2.94 / 0.0 / 3208.37 / 7.82 / 1.48 / 0.004 *XS*
-----
ALTOP AT 8766 / -138 / 610. / 117. / 4766. / 1.03 / 16. / 155.
3204.92 / 0.44 /***** /***** / 3205.36 / 5.21 / 1.02 /***** *XS*
-----
AL AT 8753 / -3 / 820. / 40. / 1753. / 1.00 / 13. / 31.
3198.66 / 6.50 / 0.19 / 0.0 / 3205.17 / 20.45 / 2.45 / 0.004 *XS*
=====
    
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END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 11,DATE=10/13/77

COMPUTED WSC VALUES FOR: BOONE CREEK OVERLAND FLOW AL TO AO 2ND TRY
PROFILE NUMBER 2, DOWNSTREAM COMPUTATIONS

SECID	AL	ALTOP	AM	BC-BD	ROAD	AN	AO
WSC	3200.48	3204.92	3207.71	3210.49	3210.17	3208.87	3211.18

COMPUTED WSA VALUES FOR: BOONE CREEK OVERLAND FLOW AL TO AO 2ND TRY
PROFILE NUMBER 2, DOWNSTREAM COMPUTATIONS

SECID	AL	AM	AN
WSA	3205.04	3208.13	3209.46

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK OVERLAND FLOW AL TO AO 2ND TR
PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

ALTOP; WS NOT FOUND BETWEEN	; WS = 3204.81 & WS = 3210.00;	USED DEL = 0.25
ALTOP; WS NOT FOUND BETWEEN	; WS = 3204.81 & WS = 3210.00;	USED WSMIN = WSC
ALTOP; WS NOT FOUND	;	ASSUMED WS = WSC
AM ; WS TOO LOW	;	USED WSMIN = WSC
AM ; WS NOT FOUND BETWEEN	; WS = 3208.31 & WS = 3220.00;	USED DEL = 0.25
AM ; WS NOT FOUND	;	ASSUMED WS = WSC
BC-BD; WS TOO LOW	;	USED WSMIN = WSC
BC-BD; WS NOT FOUND BETWEEN	; WS = 3211.54 & WS = 3220.00;	USED DEL = 0.25
BC-BD; WS NOT FOUND	;	ASSUMED WS = WSC
ROAD ; KU/KD < 0.7 OR > 1.4	;	ALERTED USER
AO ; WS NOT FOUND BETWEEN	; WS = 3212.21 & WS = 3215.80;	USED DEL = 0.25
AO ; WS NOT FOUND BETWEEN	; WS = 3212.21 & WS = 3215.80;	USED WSMIN = WSC
AO ; WS NOT FOUND	;	ASSUMED WS = WSC

WATER-SURFACE PROFILE FOR: BOONE CREEK OVERLAND FLOW AL TO AO 2ND TRY
 PAGE 1 OF 1, PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HF	EG	V	FN	ACC	ID	
AL	AT	8763	0	1350.	320.	23411.	1.20	2.	156.
3205.06		0.33		3205.39	4.22	0.34			*IS*
ALTOP	AT	8766	3	1145.	186.	9830.	1.06	12.	191.
3205.40		0.62	*****	3206.03	6.14	1.05	*****		*XS*
AM	AT	8904	138	1145.	179.	6994.	1.00	45.	210.
3208.31		0.64	*****	3208.95	6.41	0.99	*****		*XS*
BC-BD	AT	8974	70	1145.	162.	7118.	1.00	0.	104.
3211.54		0.77	*****	3212.32	7.05	0.99	*****		*XS*
ROAD	AT	9030	56	1145.	559.	40974.	1.00	-3.	199.
3212.50		0.07	0.25	0.0	3212.57	2.05	0.22	0.000	*XS*
AN	AT	9059	29	1350.	451.	33969.	1.52	3.	198.
3212.46		0.21	0.03	0.07	3212.67	2.99	0.33	-0.000	*XS*
AO	AT	9140	81	1350.	193.	11836.	1.31	4.	128.
3213.48		1.00	*****	3214.48	7.00	0.69	*****		*XS*

USE 22514

6217 OK

USE
W&A 30090

6217 OK

Profile smoothed
USE 22517

OK

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 14,DATE=10/13/77

COMPUTED WSC VALUES FOR: BOONE CREEK OVERLAND FLOW AL TO A0 2ND TRY
PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

SECID	ALTOP	AM	BC-8D	A0
WSC	3205.40	3208.31	3211.54	3213.48

50 10

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK OVERLAND FLOW AL TO A0 2ND TRY
PROFILE NUMBER 4, DOWNSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

AD	; WS TOO LOW				
AN	; KU/KD < 0.7 OR > 1.4				ASSUMED WS = WSC
AN	; SUPERCRITICAL WS				ALERTED USER
ROAD	; SUPERCRITICAL WS				COMPUTED WSA
BC-BD	; WS NOT FOUND BETWEEN				COMPUTED WSA
		; WS = 3211.54 & WS = 3208.50;			
BC-BD	; WS NOT FOUND BETWEEN				USED DEL = 0.25
		; WS = 3211.54 & WS = 3208.50;			
BC-BD	; WS NOT FOUND				USED KE = 0.5
AM	; KU/KD < 0.7 OR > 1.4				ASSUMED WS = WSC
AM	; SUPERCRITICAL WS				ALERTED USER
ALTOP	; WS NOT FOUND BETWEEN				COMPUTED WSA
		; WS = 3205.40 & WS = 3203.30;			
ALTOP	; WS NOT FOUND BETWEEN				USED DEL = 0.25
		; WS = 3205.40 & WS = 3203.30;			
ALTOP	; WS NOT FOUND				USED KE = 0.5
AL	; KU/KD < 0.7 OR > 1.4				ASSUMED WS = WSC
AL	; SUPERCRITICAL WS				ALERTED USER
					COMPUTED WSA

WATER-SURFACE PROFILE FOR: ^{50%}BOONE CREEK OVERLAND FLOW AL 10 A0 2ND TRY
 PAGE 1 OF 1, PROFILE NUMBER 4, DOWNSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID*	
A0	AT	9140	0	1350.	193.	11836.	1.31	4.	128.
3213.48	1.00			3214.48	7.00	1.01			*IS*
AN	AT	9059	-81	1350.	91.	6033.	1.00	63.	96.
3208.94	2.46	2.07	0.0	3212.40	14.91	1.58		0.010	*XS*
ROAD	AT	9030	-29	1145.	166.	6010.	1.00	20.	193.
3210.41	0.74	1.24	0.0	3211.15	6.90	1.24		0.002	*XS*
BC-BD	AT	8974	-56	1145.	162.	7118.	1.00	0.	104.
3211.54	0.77	*****	*****	3212.32	7.05	0.99		*****	*XS*
AM	AT	8904	-70	1145.	121.	4202.	1.00	47.	200.
3207.84	1.40	3.07	0.0	3209.25	9.49	1.61		0.001	*XS*
ALTOP	AT	8766	-138	1145.	186.	9830.	1.06	12.	191.
3205.40	0.62	*****	*****	3206.03	6.14	1.00		*****	*XS*
AL	AT	8763	-3	1350.	70.	3815.	1.00	9.	32.
3200.08	5.82	0.12	0.0	3205.90	19.35	1.94		0.002	*XS*

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM -- VERSION 77.180 *** PAGE COUNT= 17,DATE=10/13/77

COMPUTED WSC VALUES FOR: BOONE CREEK OVERLAND FLOW AL TO AO 2ND TRY
PROFILE NUMBER 4, DOWNSTREAM COMPUTATIONS

SECID	AL	ALTOP	AM	BC-BD	ROAD	AN	AO
WSC	3201.88	3205.40	3208.31	3211.54	3210.56	3210.22	3213.48

COMPUTED WSA VALUES FOR: BOONE CREEK OVERLAND FLOW AL TO AO 2ND TRY
PROFILE NUMBER 4, DOWNSTREAM COMPUTATIONS

SECID	AL	AM	ROAD	AN
WSA	3205.73	3209.01	3210.75	3212.12

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK OVERLAND FLOW AL TO AO 2ND TRY
 PROFILE NUMBER 5. UPSTREAM COMPUTATIONS

SECD: ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

ALTOP; WS NOT FOUND BETWEEN	; WS = 3205.04 & WS = 3210.00;	USED DEL = 0.25
ALTOP; WS NOT FOUND BETWEEN	; WS = 3205.04 & WS = 3210.00;	USED WSMIN = WSC
ALTOP; WS NOT FOUND	;	ASSUMED WS = WSC
AM ; WS TOO LOW	;	USED WSMIN = WSC
AM ; WS NOT FOUND BETWEEN	; WS = 3208.50 & WS = 3220.00;	USED DEL = 0.25
AM ; WS NOT FOUND	;	ASSUMED WS = WSC
BC-BD; WS TOO LOW	;	USED WSMIN = WSC
BC-BD; WS NOT FOUND BETWEEN	; WS = 3211.77 & WS = 3220.00;	USED DEL = 0.25
BC-BD; WS NOT FOUND	;	ASSUMED WS = WSC
ROAD ; KU/KD < 0.7 OR > 1.4	;	ALERTED USER
AN ; LEFT BANK EXTENDED	;	ALERTED USER
AO ; WS NOT FOUND BETWEEN	; WS = 3212.49 & WS = 3215.80;	USED DEL = 0.25
AO ; WS NOT FOUND BETWEEN	; WS = 3212.49 & WS = 3215.80;	USED WSMIN = WSC
AO ; WS NOT FOUND	;	ASSUMED WS = WSC

100-yu

WATER-SURFACE PROFILE FOR: BOONE CREEK OVERLAND FLOW AL TO A0 2ND TRY
 PAGE 1 OF 1, PROFILE NUMBER 5, UPSTREAM COMPUTATIONS

SECID	AT DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW	
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID*	
<i>AP</i>	AT	8763	0	1590.	356.	26692.	1.15	2.	191.
<i>USE 3205.53</i>	3205.29	0.36		3205.65	4.47	0.36		*IS*	
<i>AP</i>	ATOP	8766	3	1370.	211.	11896.	1.07	10.	192.
<i>USE 3205.53</i>	3205.57	0.70	*****	*****	3206.26	6.48	1.06	*****	*XS*
<i>AP</i>	AT	8904	138	1370.	207.	8435.	1.00	45.	214.
<i>USE 3209.20</i>	3208.50	0.68	*****	*****	3209.19	6.63	1.00	*****	*XS*
<i>AP</i>	BC-BD	8974	70	1370.	187.	8617.	1.00	0.	111.
<i>USE 3209.20</i>	3211.77	0.83	*****	*****	3212.61	7.32	0.99	*****	*XS*
<i>AP</i>	ROAD	9030	56	1370.	616.	47651.	1.00	-6.	200.
<i>USE 3212.86</i>	3212.79	0.08	0.26	0.0	3212.86	2.22	0.23	-0.000	*XS*
<i>AP</i>	AT	9059	29	1590.	506.	38873.	1.53	0.	199.
<i>USE 3213.8</i>	3212.74	0.24	0.03	0.08	3212.98	3.14	0.34	-0.001	*XS*
<i>AP</i>	A0	9140	81	1590.	231.	13264.	1.37	0.	136.
<i>USE 3213.8</i>	3213.81	1.01	*****	*****	3214.82	6.88	0.73	*****	*XS*

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 20,DATE=10/13/77

COMPUTED WSC VALUES FOR: BOONE CREEK OVERLAND FLOW AL TO A0 2ND TRY
PROFILE NUMBER 5, UPSTREAM COMPUTATIONS

SECID	ALTOP	AM	BC-BD	A0
WSC	3205.57	3208.50	3211.77	3213.81

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK OVERLAND FLOW AL TO AD 2ND TRY
 PROFILE NUMBER 6: DOWNSTREAM COMPUTATIONS

SECID: ERROR(WARNING) MESSAGE: INTERMEDIATE RESULTS(IF ANY): ACTION TAKEN

AD	:	WS TOO LOW	:					ASSUMED WS = WSC
AN	:	KU/KD < 0.7 OR > 1.4	:					ALERTED USER
AN	:	SUPERCritical WS	:					COMPUTED WSA
ROAD	:	SUPERCritical WS	:					COMPUTED WSA
BC-BOT	:	WS NOT FOUND BETWEEN	:	WS = 3211.77	&	WS = 3208.50	:	USED DEL = 0.25
BC-BOT	:	WS NOT FOUND BETWEEN	:	WS = 3211.77	&	WS = 3208.50	:	USED KE = 0.5
BC-BOT	:	WS NOT FOUND	:					ASSUMED WS = WSC
AM	:	KU/KD < 0.7 OR > 1.4	:					ALERTED USER
AM	:	SUPERCritical WS	:					COMPUTED WSA
ALTOP	:	WS NOT FOUND BETWEEN	:	WS = 3205.57	&	WS = 3203.30	:	USED DEL = 0.25
ALTOP	:	WS NOT FOUND BETWEEN	:	WS = 3205.57	&	WS = 3203.30	:	USED KE = 0.5
ALTOP	:	WS NOT FOUND	:					ASSUMED WS = WSC
AL	:	KU/KD < 0.7 OR > 1.4	:					ALERTED USER
AL	:	SUPERCritical WS	:					COMPUTED WSA

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK OVERLAND FLOW AL TO A0 2ND TRY
 PROFILE NUMBER 6, DOWNSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

A0	; WS TOO LOW				
AN	; KU/KD < 0.7 OR > 1.4				ASSUMED WS = WSC
AN	; SUPERCRITICAL WS				ALERTED USER
ROAD	; SUPERCRITICAL WS				COMPUTED WSA
BC-BD	; WS NOT FOUND BETWEEN				COMPUTED WSA
		WS = 3211.77	&	WS = 3208.50	
					USED DEL = 0.25
BC-BD	; WS NOT FOUND BETWEEN				
		WS = 3211.77	&	WS = 3208.50	
					USED KE = 0.5
BC-BD	; WS NOT FOUND				
AM	; KU/KD < 0.7 OR > 1.4				ASSUMED WS = WSC
AM	; SUPERCRITICAL WS				ALERTED USER
ALTOP	; WS NOT FOUND BETWEEN				COMPUTED WSA
		WS = 3205.57	&	WS = 3203.30	
					USED DEL = 0.25
ALTOP	; WS NOT FOUND BETWEEN				
		WS = 3205.57	&	WS = 3203.30	
					USED KE = 0.5
ALTOP	; WS NOT FOUND				
					ASSUMED WS = WSC
AL	; KU/KD < 0.7 OR > 1.4				ALERTED USER
AL	; SUPERCRITICAL WS				COMPUTED WSA

USGS STEP-BACKWATER PROGRAM - VERSION 77.160 *** PAGE COUNT= 22,DATE=10/13/77

WATER-SURFACE PROFILE FOR: BOONE CREEK OVERLAND FLOW AL TO AO 2ND TRY
PAGE 1 OF 1, PROFILE NUMBER 6, DOWNSTREAM COMPUTATIONS

```
=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
AO AT 9140 / 0 / 1590. / 231. / 13264. / 1.37 / 0. / 136.
3213.81 / 1.01 / / 3214.82 / 6.88 / 1.07 / *IS*
-----
AN AT 9059 / -81 / 1590. / 108. / 7708. / 1.00 / 62. / 98.
3209.45 / 3.36 / 2.00 / 0.0 / 3212.81 / 14.71 / 1.50 / 0.001 *XS*
-----
ROAD AT 9030 / -29 / 1370. / 168. / 6108. / 1.00 / 20. / 194.
3210.42 / 1.04 / 1.35 / 0.0 / 3211.46 / 8.17 / 1.46 / 0.005 *XS*
-----
BC-BD AT 8974 / -56 / 1370. / 187. / 8617. / 1.00 / 0. / 111.
3211.77 / 0.83 /***** /***** / 3212.61 / 7.32 / 0.99 /***** *XS*
-----
AM AT 8904 / -70 / 1370. / 137. / 4983. / 1.00 / 45. / 203.
3207.99 / 1.55 / 3.06 / 0.0 / 3209.54 / 10.00 / 1.64 / 0.005 *XS*
-----
ALTOP AT 8766 / -138 / 1370. / 211. / 11896. / 1.07 / 10. / 192.
3205.57 / 0.70 /***** /***** / 3206.26 / 6.48 / 1.01 /***** *XS*
-----
AL AT 8763 / -3 / 1590. / 85. / 5113. / 1.00 / 8. / 32.
3200.75 / 5.41 / 0.11 / 0.0 / 3206.16 / 18.64 / 1.73 / 0.000 *XS*
=====
```

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 23,DATE=10/13/77

COMPUTED WSC VALUES FOR: BOONE CREEK OVERLAND FLOW AL TO A0 2ND TRY
PROFILE NUMBER 6, DOWNSTREAM COMPUTATIONS

SECID	AL	ALTOP	AM	BC-BD	ROAD	AN	A0
WSC	3202.45	3205.57	3208.50	3211.77	3210.72	3210.87	3213.81

COMPUTED WSA VALUES FOR: BOONE CREEK OVERLAND FLOW AL TO A0 2ND TRY
PROFILE NUMBER 6, DOWNSTREAM COMPUTATIONS

SECID	AL	AM	ROAD	AN
WSA	3205.97	3209.30	3211.12	3212.54

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 24,DATE=10/13/77

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK OVERLAND FLOW AL TO AO 2ND TRY
PROFILE NUMBER 7, UPSTREAM COMPUTATIONS

SECID	ERROR(WARNING) MESSAGE	INTERMEDIATE RESULTS(IF ANY)	ACTION TAKEN
ALTOP	WS NOT FOUND BETWEEN	WS = 3205.56 & WS = 3210.00	USED DEL = 0.25
ALTOP	WS NOT FOUND BETWEEN	WS = 3205.56 & WS = 3210.00	USED WSMIN = WSC
ALTOP	WS NOT FOUND		ASSUMED WS = WSC
AM	WS TOO LOW		USED WSMIN = WSC
AM	WS NOT FOUND BETWEEN	WS = 3208.97 & WS = 3220.00	USED DEL = 0.25
AM	WS NOT FOUND		ASSUMED WS = WSC
BC-BD	FRDN FAILURE	WS = 3209.72 & FR = 8.62	USED HIGHER WS
BC-BD	FRDN FAILURE	WS = 3211.43 & FR = 1.95	USED HIGHER WS
BC-BD	WS NOT FOUND BETWEEN	WS = 3208.72 & WS = 3220.00	USED DEL = 0.25
BC-BD	FRDN FAILURE	WS = 3209.72 & FR = 8.62	USED HIGHER WS
BC-BD	FRDN FAILURE	WS = 3210.82 & FR = 2.64	USED HIGHER WS
BC-BD	FRDN FAILURE	WS = 3210.92 & FR = 2.50	USED HIGHER WS
BC-BD	FRDN FAILURE	WS = 3211.43 & FR = 1.94	USED HIGHER WS
BC-BD	WS NOT FOUND BETWEEN	WS = 3208.72 & WS = 3220.00	USED WSMIN = WSC
BC-BD	WS NOT FOUND		ASSUMED WS = WSC
ROAD	KU/KD < 0.7 OR > 1.4		ALERTED USER
AN	LEFT BANK EXTENDED		ALERTED USER
AO	WS NOT FOUND BETWEEN	WS = 3213.19 & WS = 3215.80	USED DEL = 0.25
AO	WS NOT FOUND BETWEEN	WS = 3213.19 & WS = 3215.80	USED WSMIN = WSC

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 25,DATE=10/13/77

500 ft

WATER-SURFACE PROFILE FOR: BOONE CREEK OVERLAND FLOW AL TO AO 2ND TRY
PAGE 1 OF 1, PROFILE NUMBER 7, UPSTREAM COMPUTATIONS

SECID	AT	WS ELEV	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
			HV	HF	HE	EG	V	FN	ACC
									ID
AL	AT	8763 / 3205.81	0 / 0.44	2250. /	440. / 3206.25	35264. / 5.11	1.07 / 0.39	1. /	194. / *IS*
ALTOP	AT	8766 / 3206.02	3 / 0.87	2040. / *****	284. / *****	18493. / 3206.88	1.08 / 7.19	6. / 1.05	195. / ***** *XS*
AM	AT	8904 / -3208.97	138 / 0.79	2040. / *****	287. / *****	12945. / 3209.76	1.00 / 7.12	45. / 0.99	223. / ***** *XS*
BC-BD	AT	8974 / 3212.35	70 / 0.99	2040. / *****	255. / *****	13225. / 3213.34	1.00 / 7.99	0. / 0.99	127. / ***** *XS*
ROAD	AT	9030 / 3213.50	56 / 0.11	2040. / 0.27	766. / 0.0	66345. / 3213.61	1.00 / 2.66	-14. / 0.25	201. / 0.000 *XS*
AN	AT	90590 / 3213.44	29 / 0.29	2250. / 0.04	647. / 0.09	52922. / 3213.73	1.53 / 3.48	0. / 0.36	200. / -0.000 *XS*
AO	AT	9140 / 3214.48	81 / 0.97	2250. / *****	327. / *****	19737. / 3215.45	1.32 / 6.87	0. / 0.70	152. / ***** *XS*

*Water level
USE 3206.0*

USE WS 3209.7

217 ft

*Water level
USE 3213.7*

116

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 26,DATE=10/13/77

COMPUTED WSC VALUES FOR: BOONE CREEK OVERLAND FLOW AL TO AO 2ND TRY
PROFILE NUMBER 7, UPSTREAM COMPUTATIONS

SECT	ALTOP	AM	BC-BD	AO
WSC	3206.02	3208.97	3212.35	3214.48

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK OVERLAND FLOW AL TO AO 2ND TRY
 PROFILE NUMBER 8; DOWNSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

AO	; WS TOO LOW			ASSUMED WS = WSC
AN	; KU/KD < 0.7 OR > 1.4			ALERTED USER
AN	; SUPERCRITICAL WS			COMPUTED WSA
AN	; LEFT BANK EXTENDED			ALERTED USER
ROAD	; KU/KD < 0.7 OR > 1.4			ALERTED USER
ROAD	; SUPERCRITICAL WS			COMPUTED WSA
BC-BD	; WS NOT FOUND BETWEEN			
		; WS = 3212.35 & WS = 3208.50;		USED DEL = 0.25
BC-BD	; WS NOT FOUND BETWEEN			
		; WS = 3212.35 & WS = 3208.50;		USED KE = 0.5
BC-BD	; WS NOT FOUND			
AM	; KU/KD < 0.7 OR > 1.4			ASSUMED WS = WSC
AM	; SUPERCRITICAL WS			ALERTED USER
ALTOP	; WS NOT FOUND BETWEEN			COMPUTED WSA
		; WS = 3206.02 & WS = 3203.30;		USED DEL = 0.25
ALTOP	; WS NOT FOUND BETWEEN			
		; WS = 3206.02 & WS = 3203.30;		USED KE = 0.5
ALTOP	; WS NOT FOUND			
				ASSUMED WS = WSC
AL	; KU/KD < 0.7 OR > 1.4			ALERTED USER
AL	; SUPERCRITICAL WS			COMPUTED WSA

WATER-SURFACE PROFILE FOR: BOONE CREEK OVERLAND FLOW AL TO AO 2ND TRY
 PAGE 1 OF 1, PROFILE NUMBER 8, DOWNSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID	
AO	AT	9140	0	2250.	327.	19737.	1.32	0.	152.
3214.48	0.97				3215.45	6.87	0.95		*IS*
AN	AT	9059	-81	2250.	165.	12061.	1.08	60.	193.
3210.59	3.14	1.72	0.0		3213.72	13.66	1.68	0.005	*XS*
ROAD	AT	9030	-29	2040.	195.	7741.	1.00	19.	195.
3210.58	1.71	1.43	0.0		3212.28	10.48	1.76	0.008	*XS*
BC-BD	AT	8974	-56	2040.	255.	13225.	1.00	0.	127.
3212.35	0.99	*****	*****		3213.34	7.99	0.99	*****	*XS*
AN	AT	8904	-70	2040.	183.	7207.	1.00	45.	210.
3208.34	1.94	3.06	0.0		3210.28	11.16	1.72	0.006	*XS*
ALTOP	AT	8766	-138	2040.	284.	18493.	1.08	6.	195.
3206.02	0.87	*****	*****		3206.88	7.19	1.01	*****	*XS*
AL	AT	8763	-3	2250.	148.	11217.	1.00	5.	34.
3203.22	3.80	0.07	0.0		3206.81	15.20	1.19	0.004	*XS*

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 29, DATE=10/13/77

COMPUTED WSC VALUES FOR: BOONE CREEK OVERLAND FLOW AL TO AO 2ND TRY
PROFILE NUMBER 8, DOWNSTREAM COMPUTATIONS

SECID	AL	ALTOP	AM	BC-BD	ROAD	AN	AO
WSC	3205.09	3206.02	3208.97	3212.35	3211.09	3211.80	3214.48

COMPUTED WSA VALUES FOR: BOONE CREEK OVERLAND FLOW AL TO AO 2ND TRY
PROFILE NUMBER 8, DOWNSTREAM COMPUTATIONS

SECID	AL	AM	ROAD	AN
WSA	3206.58	3209.99	3211.97	3213.43

BOONE CREEK

CULV S-T

BASE ELEVATION = 43.10

Z = 0.18

APPROACH ELEVATION	AREA	CONVEYANCE	ALPHA	TOP WIDTH	QC
43.28	0.0	0.0	0.0	0.0	0.0
43.79	0.0	0.0	0.0	0.0	0.0
44.30	0.5	2.1	1.000	9.5	0.60
44.81	0.5	167.8	1.000	18.4	32.89
45.32	18.2	563.1	1.000	19.5	99.62
45.83	28.4	1128.3	1.000	20.6	189.33
46.34	39.3	1833.0	1.000	22.0	297.52
46.85	51.7	2543.5	1.000	26.9	406.05
47.36	66.8	3471.6	1.000	32.3	545.01
47.87	84.5	4720.9	1.000	36.7	727.09
48.38	103.8	6398.8	1.000	38.8	963.44
48.89	124.1	8332.0	1.000	40.6	1230.41
49.40	145.2	10498.5	1.000	42.4	1524.94
49.91	167.3	12899.3	1.000	44.2	1846.92
50.42	190.3	15527.5	1.000	46.1	2195.23
50.93	217.6	18626.4	1.023	63.0	2294.10
51.44	254.7	22318.9	1.079	82.7	2536.52
51.95	301.4	26832.3	1.128	98.5	2991.86
52.46	354.7	32259.7	1.150	110.3	3609.12
52.97	412.9	38810.8	1.139	116.4	4412.52
53.48	473.2	46341.2	1.114	120.3	5325.07
53.99	535.6	54738.8	1.090	124.3	6309.12
54.50	600.0	63985.9	1.069	128.2	7364.24
55.01	666.4	74069.7	1.053	132.2	8489.63
55.52	734.8	85009.1	1.040	136.1	9687.19

BOONE CREEK

CULV S-1

BASE ELEVATION =

43.10

Z = 0.18

BARREL DEPTH	AREA	CONVEYANCE	TOP WIDTH	WETTED PERIMETER
0.0	0.0	0.0	0.0	
0.241	0.86	11.4	5.33	5.36
0.482	2.42	50.8	7.50	7.59
0.722	4.41	123.4	8.81	8.99
0.963	6.61	229.5	9.41	9.76
1.204	8.92	363.5	9.78	10.37
1.445	11.31	521.7	10.03	10.91
1.686	13.74	700.5	10.17	11.41
1.926	16.20	896.4	10.24	11.90
2.167	18.66	1064.2	10.20	13.10
2.408	21.11	1275.6	10.13	13.58
2.649	23.54	1494.0	10.05	14.07
2.890	25.95	1717.3	9.94	14.57
3.130	28.33	1943.3	9.81	15.07
3.371	30.67	2170.1	9.65	15.57
3.612	32.97	2395.5	9.46	16.09
3.853	35.23	2617.6	9.25	16.62
4.094	37.42	2834.2	9.02	17.16
4.334	39.56	3043.2	8.72	17.72
4.575	41.62	3242.3	8.40	18.29
4.816	43.60	3429.1	8.05	18.89
5.057	45.49	3600.9	7.64	19.52
5.298	47.28	3754.7	7.18	20.19
5.538	48.95	3887.1	6.66	20.90
5.779	50.48	3993.6	6.05	21.68
6.020	51.85	4068.4	5.33	22.54

BOONE CREEK

CULV S-T

BASE ELEVATION =

43.10

Z =

0.18

Q	ELEV H1	ELEV H4	D2	D3	TYPE	C	C ADJUSTED
300.0	49.31	*****	5.17	3.30	2	0.93	0.94
300.0	49.16	47.00	5.07	3.90	3	0.94	0.94
300.0	49.47	48.00	5.50	4.90	3	0.93	0.94
300.0	50.17	49.00	6.02	5.90	3	0.91	0.92
300.0	50.74	49.50	6.02	6.02	4	0.86	0.86
400.0	TYPE.. 2	ENERGY EQUATIONS NOT BALANCED					
400.0	51.70	49.50	6.02	6.02	4	0.86	0.86
500.0	TYPE.. 2	ENERGY EQUATIONS NOT BALANCED					
500.0	52.94	49.50	6.02	6.02	4	0.86	0.86
600.0	TYPE.. 2	ENERGY EQUATIONS NOT BALANCED					
600.0	53.25	*****	*****	*****	6	0.86	0.86
600.0	54.45	49.50	6.02	6.02	4	0.86	0.86
700.0	TYPE.. 2	ENERGY EQUATIONS NOT BALANCED					
700.0	54.00	*****	*****	*****	5	0.51	0.51
700.0	54.95	*****	*****	*****	6	0.86	0.86
700.0	56.24	49.50	6.02	6.02	4	0.86	0.86
800.0	TYPE.. 2	ENERGY EQUATIONS NOT BALANCED					
800.0	55.82	*****	*****	*****	5	0.54	0.54
800.0	56.92	*****	*****	*****	6	0.86	0.86
800.0	58.30	49.50	6.02	6.02	4	0.86	0.86
900.0	TYPE.. 2	ENERGY EQUATIONS NOT BALANCED					
900.0	58.24	*****	*****	*****	5	0.56	0.56
900.0	59.15	*****	*****	*****	6	0.86	0.86
900.0	60.64	49.50	6.02	6.02	4	0.86	0.86
1000.0	60.72	*****	*****	*****	5	0.58	0.58
1000.0	61.63	*****	*****	*****	6	0.86	0.86
1000.0	63.25	49.50	6.02	6.02	4	0.86	0.86
1100.0	63.57	*****	*****	*****	5	0.59	0.59
1100.0	64.33	*****	*****	*****	6	0.86	0.86
1100.0	66.14	49.50	6.02	6.02	4	0.86	0.86
1200.0	66.60	*****	*****	*****	5	0.60	0.60
1200.0	67.25	*****	*****	*****	6	0.86	0.86
1200.0	69.30	49.50	6.02	6.02	4	0.86	0.86
1300.0	69.74	*****	*****	*****	5	0.61	0.61
1300.0	70.37	*****	*****	*****	6	0.86	0.86
1300.0	72.73	49.50	6.02	6.02	4	0.86	0.86

P — S

Downstream (corr. sta.)

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8
.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0								
1	1	BOONE CREEK	OVER-LAND FLOOD PROFILES	CUL P-S	4	4	02	05 10
2	2	-99999	-99999	-99999	-99999			
3	100 P	1	21	1 3145	4334	99	99	
4	101	850	1550	1250	2725			
5	105	-15	1 31550	0	1 31501	3	1 31489	6 1 31474 8 1 31481
5	106	11	1 31482	35	1 31479	57	1 31466	57 1 31550 87 1 31550
5	107	87	1 31456	100	1 31454	150	1 31451	200 1 31457 232 1 31477
5	108	233	1 31473	257	1 31476	258	1 31480	275 1 31485 300 1 31501
5	109	325	1 31550					
6	115	1	2 035	035				
3	200 Q	0	15	1 3150	4540	99	99	
5	205	-50	1 31600	0	1 31541	37	1 31502	61 1 31499 100 1 31496
5	206	200	1 31499	265	1 31496	266	1 31491	289 1 31491 290 1 31493
5	207	313	1 31506	313	1 31513	318	1 31532	327 1 31537 327 1 31600
6	210	1	2 035	035				
3	300 R	0	15	1 3153	4807	99	99	
5	305	20	1 31561	46	1 31534	65	1 31534	85 1 31530 94 1 31534
5	306	94	1 31529	119	1 31531	160	1 31535	160 1 31531 194 1 31532
5	307	234	1 31533	277	1 31535	277	1 31540	300 1 31550 400 1 31565
6	310	1	2 035	035				
3	400 S	1	28	3 3150	4827	99	99	
4	401	1210	1920	2220	3090			
5	405	-150	1 31630	-100	1 31560	-50	1 31545	0 1 31539 10 2 31535
5	406	16	2 31505	20	2 31475	24	2 31445	26 2 31432 32 2 31431
5	407	36	2 31427	38	2 31433	42	3 31516	55 3 31535 64 3 31538
5	408	64	3 31533	100	3 31531	150	3 31527	191 3 31527 192 3 31532
5	409	202	3 31536	203	3 31532	229	3 31532	230 3 31534 235 3 31533
5	410	238	3 31496	240	3 31517	270	3 31535	
6	412	1	2 035	035	1	2 060	060	1 2 035 035

PAGE 1 OF EDITING NOTES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-S

SECID	ERROR SEVERITY	FIRST VARIABLE	NO.	ERROR MESSAGE	SECOND VARIABLE	NO.	VALUE ASSUMED
F	WARNING	HSUBO		IS LESS THAN	GMIN		> GMIN

INPUT SUMMARY FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-S

4 CROSS SECTIONS SPECIFIED (OR ASSUMED)

FOUND 4 TYPE 3 CARDS

KEPT 4 CROSS SECTIONS FOR EDITING

4 " " VALID FOR PROPERTY COMPUTATIONS

4 " " " " PROFILE "

CROSS-SECTION PROPERTIES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-S
 SECID=P AT DISTANCE= 433 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3145.5	20	302	1.00	90	90	93	183	52
3146.0	75	2353	1.00	118	118	87	205	339
3146.5	136	6055	1.00	126	127	87	213	800
3147.0	202	10862	1.00	141	142	50	221	1374
3147.5	278	16006	1.00	174	177	6	249	1995
3148.0	374	23480	1.00	204	208	5	258	2868
3148.5	488	32701	1.00	241	247	4	275	3933
3149.0	610	46307	1.00	250	257	3	283	5410
3149.5	758	61870	1.00	259	267	1	291	7060
3150.0	870	79368	1.00	268	277	0	298	8881
3150.5	1005	99569	1.00	273	283	0	302	10934
3151.0	1143	121828	1.00	277	288	-2	305	13158
3151.5	1283	145894	1.00	281	294	-3	307	15529
3152.0	1424	171718	1.00	286	299	-5	310	18042
3152.5	1568	199262	1.00	290	304	-6	312	20695
3153.0	1714	228490	1.00	294	309	-8	315	23483
3153.5	1862	259375	1.00	298	314	-9	317	26404
3154.0	2012	291893	1.00	302	320	-11	320	29455
3154.5	2164	326023	1.00	306	325	-12	322	32634
3155.0	2318	361760	1.00	310	330	-14	325	35941

CROSS-SECTION PROPERTIES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-S
 SECID=Q AT DISTANCE= 4540 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
3150.0	78	1539	1.00	249	250	63	302	249
3150.5	212	7550	1.00	277	277	34	311	1052
3151.0	353	17330	1.00	284	284	29	313	2230
3151.5	496	30171	1.00	289	290	25	314	3682
3152.0	642	45741	1.00	295	296	20	315	5367
3152.5	791	63895	1.00	301	302	15	316	7267
3153.0	943	84509	1.00	307	308	10	317	9367
3153.5	1098	106580	1.00	318	319	6	323	11582
3154.0	1260	131584	1.00	326	328	1	327	14045
3154.5	1424	159813	1.00	330	333	-2	327	16767
3155.0	1590	190293	1.00	335	337	-7	327	19662
3155.5	1759	222951	1.00	339	342	-11	327	22723
3156.0	1929	257739	1.00	343	347	-15	327	25944
3156.5	2102	294619	1.00	347	352	-19	327	29322
3157.0	2276	333557	1.00	352	356	-24	327	32854
3157.5	2453	374523	1.00	356	361	-28	327	36537
3158.0	2632	417493	1.00	360	366	-32	327	40367
3158.5	2813	462446	1.00	364	371	-36	327	44344

CROSS-SECTION PROPERTIES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-S
 SECID=Q AT DISTANCE= 4540 PART 2 OF 2

WS	A	K	ALPHA	B	F	LEW	REW	QC
3159.0	2997	509363	1.00	369	376	-41	327	48464
3159.5	3182	558228	1.00	373	380	-45	327	52726
3160.0	3369	609043	1.00	377	385	-49	327	57131

CROSS-SECTION PROPERTIES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-S
 SECID=R AT DISTANCE= 4807 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3153.0	1	4	1.00	13	13	94	107	1
3153.5	58	974	1.00	232	233	45	277	164
3154.0	175	6070	1.00	237	238	40	277	854
3154.5	298	14055	1.00	253	255	35	289	1830
3155.0	428	24731	1.00	269	271	31	300	3062
3155.5	572	36748	1.00	308	309	26	333	4429
3156.0	736	51665	1.00	346	347	21	367	6088
3156.5	917	70040	1.00	380	382	20	400	8085

CROSS-SECTION PROPERTIES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-S
 SECID=S AT DISTANCE= 4827 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
3150.0	127	8039	1.00	25	32	17	238	1613
3150.5	140	9145	1.01	27	35	16	239	1801
3151.0	154	10296	1.01	29	38	15	239	1998
3151.5	169	11558	1.01	31	41	14	240	2216
3152.0	187	13013	1.03	41	51	13	245	2229
3152.5	210	14815	1.06	54	64	12	253	2284
3153.0	259	17106	1.24	146	157	11	262	1752
3153.5	362	21868	1.40	248	260	10	270	2089
3154.0	494	30908	1.28	278	291	-7	270	3299
3154.5	643	43274	1.17	320	333	-49	270	4783
3155.0	807	57007	1.11	337	350	-66	270	6743
3155.5	980	77825	1.08	353	367	-82	270	8924
3156.0	1161	99657	1.06	370	385	-99	270	11302
3156.5	1347	125075	1.05	374	389	-103	270	14150
3157.0	1534	153308	1.04	377	393	-106	270	17189
3157.5	1724	184226	1.04	381	397	-110	270	20410
3158.0	1915	217726	1.04	384	401	-113	270	23804
3158.5	2108	253724	1.04	388	405	-117	270	27368
3159.0	2303	292151	1.04	391	409	-120	270	31958
3159.5	2499	332950	1.04	395	413	-124	270	34990

CROSS-SECTION PROPERTIES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-S
 SECID=S AT DISTANCE= 4827 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
3160.0	2698	376069	1.04	399	417	-128	270	39041
3160.5	2898	421466	1.04	402	421	-131	270	43249
3161.0	3100	469104	1.04	406	426	-135	270	47611
3161.5	3304	518951	1.04	409	430	-138	270	52123
3162.0	3509	570976	1.04	413	434	-142	270	56786
3162.5	3717	625155	1.05	416	438	-145	270	61595
3163.0	3926	681464	1.05	420	442	-149	270	66550

*** INPUT CARD PRINTOUT ***

.....1.....2.....3.....4.....5.....6.....7.....8
.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0

7 10000
8 10001

2 2 2 2
0 0 0 0

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-S
PROFILE NUMBER 1; DOWNSTREAM COMPUTATIONS

SECID	ERROR (WARNING) MESSAGE	INTERMEDIATE RESULTS (IF ANY)	ACTION TAKEN
S	; WS TOO LOW		ASSUMED WS = WSC
R	; WS NOT FOUND BETWEEN	; WS = 3154.00 & WS = 3153.10;	USED DEL = 0.25
R	; WS NOT FOUND BETWEEN	; WS = 3154.00 & WS = 3153.10;	USED KE = 0.5
R	; WS NOT FOUND		ASSUMED WS = WSC
Q	; WS NOT FOUND BETWEEN	; WS = 3150.39 & WS = 3149.30;	USED DEL = 0.25
Q	; WS NOT FOUND BETWEEN	; WS = 3150.39 & WS = 3149.30;	USED KE = 0.5
Q	; WS NOT FOUND		ASSUMED WS = WSC
P	; WS NOT FOUND BETWEEN	; WS = 3146.54 & WS = 3145.30;	USED DEL = 0.25
P	; WS NOT FOUND BETWEEN	; WS = 3146.54 & WS = 3145.30;	USED KE = 0.5
P	; WS NOT FOUND		ASSUMED WS = WSC

WATER-SURFACE PROFILE FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-S
PAGE 1 OF 1, PROFILE NUMBER 1. DOWNSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW			
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID*				
S	AT	4827	0	1210.	101.	5927.	1.00	18.	41.			
3148.92	/	2.21	/		/	3151.14	/	11.93	/	0.99	/	*IS*
R	AT	4807	-20	850.	175.	6086.	1.00	40.	277.			
3154.00	/	0.37	/*****	*****/	*****/	3154.37	/	4.85	/	0.99	/*****	*XS*
Q	AT	4540	-267	850.	182.	5883.	1.00	35.	309.			
3150.39	/	0.34	/*****	*****/	*****/	3150.73	/	4.68	/	1.01	/*****	*XS*
P	AT	4334	-206	850.	141.	6437.	1.00	87.	213.			
3146.54	/	0.56	/*****	*****/	*****/	3147.11	/	6.02	/	1.00	/*****	*XS*

END OF THIS PROFILE

COMPUTED WSC VALUES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-S
PROFILE NUMBER 1, DOWNSTREAM COMPUTATIONS

SECID	P	Q	R	S
WSC	3146.54	3150.39	3154.00	3148.92

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-S
PROFILE NUMBER 2, DOWNSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

S	; WS TOO LOW			ASSUMED WS = WSC
R	; WS NOT FOUND BETWEEN			
		WS = 3154.38	& WS = 3153.10	USED DEL = 0.25
R	; WS NOT FOUND BETWEEN			
		WS = 3154.38	& WS = 3153.10	USED KE = 0.5
R	; WS NOT FOUND			ASSUMED WS = WSC
Q	; WS NOT FOUND BETWEEN			
		WS = 3150.73	& WS = 3149.30	USED DEL = 0.25
Q	; WS NOT FOUND BETWEEN			
		WS = 3150.73	& WS = 3149.30	USED KE = 0.5
Q	; WS NOT FOUND			ASSUMED WS = WSC
P	; WS NOT FOUND BETWEEN			
		WS = 3147.14	& WS = 3145.30	USED DEL = 0.25
P	; WS NOT FOUND BETWEEN			
		WS = 3147.14	& WS = 3145.30	USED KE = 0.5
P	; WS NOT FOUND			ASSUMED WS = WSC

WATER-SURFACE PROFILE FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-S
 PAGE 1 OF 1, PROFILE NUMBER 2, DOWNSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID	
S	AT	4827	0	1920.	147.	9716.	1.01	15.	239.
		3150.75	2.67		3153.43	13.06	1.01		*IS*
R	AT	4807	-20	1550.	266.	11803.	1.00	37.	286.
		3154.38	0.53	*****	*****	3154.90	5.82	0.99	***** *XS*
Q	AT	4540	-267	1550.	277.	11673.	1.00	32.	313.
		3150.73	0.49	*****	*****	3151.22	5.59	0.99	***** *XS*
P	AT	4334	-206	1550.	223.	12479.	1.00	48.	223.
		3147.14	0.75	*****	*****	3147.90	6.96	0.99	***** *XS*

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 13, DATE= 9/10/77

COMPUTED WSC VALUES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-5
PROFILE NUMBER 2: DOWNSTREAM COMPUTATIONS

SECID	P	Q	R	S
WSC	3147.14	3150.73	3154.38	3150.75

PAGE 1 PROFILE NOTES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-S
 PROFILE NUMBER 3, DOWNSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

S	; WS TOO LOW			ASSUMED WS = WSC
R	; WS NOT FOUND BETWEEN			
		; WS = 3154.51 & WS = 3153.10;		USED DEL = 0.25
R	; WS NOT FOUND BETWEEN			
		; WS = 3154.51 & WS = 3153.10;		USED KE = 0.5
R	; WS NOT FOUND			
Q	; WS NOT FOUND BETWEEN			ASSUMED WS = WSC
		; WS = 3150.86 & WS = 3149.30;		USED DEL = 0.25
Q	; WS NOT FOUND BETWEEN			
		; WS = 3150.86 & WS = 3149.30;		USED KE = 0.5
Q	; WS NOT FOUND			
P	; WS NOT FOUND BETWEEN			ASSUMED WS = WSC
		; WS = 3147.38 & WS = 3145.30;		USED DEL = 0.25
P	; WS NOT FOUND BETWEEN			
		; WS = 3147.38 & WS = 3145.30;		USED KE = 0.5
P	; WS NOT FOUND			ASSUMED WS = WSC

WATER-SURFACE PROFILE FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-S
 PAGE 1 OF 1, PROFILE NUMBER 3, DOWNSTREAM COMPUTATIONS

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SECID AT: DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
HS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
S AT 4827 / 0 / 2220. / 168. / 11498. / 1.01 / 14. / 240.
 3151.48 / 2.74 / / 3154.21 / 13.18 / 1.01 / *IS*
-----
R AT 4807 / -20 / 1850. / 300. / 14261. / 1.00 / 35. / 289.
 3154.51 / 0.59 /***** /***** / 3155.10 / 6.16 / 1.00 /***** *XS*
-----
Q AT 4540 / -267 / 1850. / 314. / 14353. / 1.00 / 31. / 313.
 3150.86 / 0.54 /***** /***** / 3151.40 / 5.89 / 0.98 /***** *XS*
-----
P AT 4334 / -206 / 1850. / 257. / 14935. / 1.00 / 44. / 239.
 3147.38 / 0.80 /***** /***** / 3148.18 / 7.19 / 1.00 /***** *XS*
=====
    
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END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 16, DATE= 9/10/77

COMPUTED WSC VALUES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-6
PROFILE NUMBER 3, DOWNSTREAM COMPUTATIONS

SECID	P	Q	R	S
WSC	3147.38	3150.86	3154.51	3151.48

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-S
 PROFILE NUMBER 4, DOWNSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

S	; WS TOO LOW			ASSUMED WS = WSC
S	; RIGHT BANK EXTENDED			ALERTED USER
R	; WS NOT FOUND BETWEEN			
		; WS = 3154.87 & WS = 3153.10;		USED DEL = 0.25
R	; WS NOT FOUND BETWEEN			
		; WS = 3154.87 & WS = 3153.10;		USED KE = 0.5
R	; WS NOT FOUND			ASSUMED WS = WSC
Q	; WS NOT FOUND BETWEEN			
		; WS = 3151.19 & WS = 3149.30;		USED DEL = 0.25
Q	; WS NOT FOUND BETWEEN			
		; WS = 3151.19 & WS = 3149.30;		USED KE = 0.5
Q	; WS NOT FOUND			ASSUMED WS = WSC
P	; WS NOT FOUND BETWEEN			
		; WS = 3147.92 & WS = 3145.30;		USED DEL = 0.25
P	; WS NOT FOUND BETWEEN			
		; WS = 3147.92 & WS = 3145.30;		USED KE = 0.5
P	; WS NOT FOUND			ASSUMED WS = WSC

WATER-SURFACE PROFILE FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-5
 PAGE 1 OF 1, PROFILE NUMBER 4, DOWNSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID	
S	AT	4827	0	3090.	502.	31560.	1.27	-11.	270.
		3154.03	0.75		3154.78	6.16	0.91		*IS*
R	AT	4807	-20	2725.	394.	21719.	1.00	32.	297.
		3154.87	0.75	*****	*****	3155.62	6.92	1.00	***** *XS*
Q	AT	4540	-267	2725.	405.	21767.	1.00	28.	313.
		3151.19	0.70	*****	*****	3151.89	6.72	0.99	***** *XS*
P	AT	4334	-206	2725.	358.	22341.	1.00	5.	258.
		3147.92	0.90	*****	*****	3148.82	7.62	1.00	***** *XS*

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 19,DATE= 9/10/77

COMPUTED WSC VALUES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-S
PROFILE NUMBER 4; DOWNSTREAM COMPUTATIONS

SECID	P	Q	R	S
WSC	3147.92	3151.19	3154.87	3154.03

CROSS-SECTION PROPERTIES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-S
SECID=S AT DISTANCE= 4827 PART 2 OF 2

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8	
1	1	BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-S 4 12 02 05 10							
2	2	314710	314710	314710	314770	314770	314770	314790	
2	3	314845	314845						314845
3	100	P	1	21	1	3145	4334	99 99	
4	101		025	850	875	1525	1550	1575 1825 1850 1875 2700	
4	102		2725	2750					
5	105		-15	1	31550	0	1	31501 3 1 31489 6 1 31474 8 1 31 81	
5	106		11	1	31482	35	1	31479 57 1 31466 57 1 31550 87 1 31550	
5	107		87	1	31456	100	1	31454 150 1 31451 200 1 31457 232 1 31477	
5	106		233	1	31473	257	1	31476 258 1 31480 275 1 31485 300 1 31501	
5	109		325	1	31550				
6	115	1	2	035	035				
3	200	Q	0	15	1	3150	4540	99 99	
5	205		-50	1	31600	0	1	31541 37 1 31502 61 1 31499 100 1 31496	
5	206		200	1	31499	265	1	31496 266 1 31491 289 1 31491 290 1 31493	
5	207		313	1	31506	313	1	31513 318 1 31532 327 1 31537 327 1 31600	
6	210	1	2	035	035				
3	300	R	0	15	1	3153	4807	99 99	
5	305		20	1	31561	46	1	31534 65 1 31534 85 1 31530 94 1 31534	
5	306		94	1	31529	119	1	31531 160 1 31535 160 1 31531 194 1 31532	
5	307		234	1	31533	277	1	31535 277 1 31540 300 1 31550 400 1 31565	
6	310	1	2	035	035				
3	400	S	1	28	3	3150	4827	99 99	
4	401		1210	1210	1210	1920	1920	1920 2220 2220 2220 3090	
4	402		3090	3090					
5	405		-150	1	31630	-100	1	31560 -50 1 31545 0 1 31539 10 2 31535	
5	406		16	2	31505	20	2	31475 24 2 31445 26 2 31432 32 2 31431	
5	407		36	2	31427	38	2	31433 42 3 31516 55 3 31535 64 3 31538	
5	408		64	3	31533	100	3	31531 150 3 31527 191 3 31527 192 3 31532	
5	409		202	3	31536	203	3	31532 229 3 31532 230 3 31534 235 3 31533	
5	410		230	3	31496	240	3	31517 270 3 31535	
6	412	1	2	035	035	1	2	060 060 1 2 035 035	

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 2, DATE= 9/12/77

PAGE 1 OF EDITING NOTES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-S

SECID	ERROR SEVERITY	FIRST VARIABLE NO.	ERRDR MESSAGE	SECOND VARIABLE NO.	VALUE ASSUMED
P	WARNING	HSUBO	IS LESS THAN	GMIN	> GMIN

USGS STEP-BACKWATER PROGRAM -- VERSION 77.180 *** PAGE COUNT= 3, DATE= 9/12/77

INPUT SUMMARY FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-S

4 CROSS SECTIONS SPECIFIED (OR ASSUMED)

FOUND 4 TYPE 3 CARDS

KEPT 4 CROSS SECTIONS FOR EDITING

4 " " VALID FOR PROPERTY COMPUTATIONS

4 " " " " PROFILE "

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 4 DATE= 9/12/77

CROSS-SECTION PROPERTIES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-S
 SECID=P AT DISTANCE= 4334 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3145.5	20	302	1.00	90	90	93	183	52
3146.0	75	2353	1.00	118	118	87	205	339
3146.5	136	6055	1.00	126	127	87	213	800
3147.0	202	10862	1.00	141	142	50	221	1374
3147.5	278	16006	1.00	174	177	6	249	1995
3148.0	374	23480	1.00	204	208	5	258	2868
3148.5	488	32701	1.00	241	247	4	275	3933
3149.0	610	46307	1.00	250	257	3	283	5410
3149.5	738	61870	1.00	259	267	1	291	7060
3150.0	870	79368	1.00	268	277	0	298	8881
3150.5	1005	99569	1.00	273	283	0	302	10934
3151.0	1143	121828	1.00	277	288	-2	305	13158
3151.5	1283	145894	1.00	281	294	-3	307	15529
3152.0	1424	171718	1.00	286	299	-5	310	18042
3152.5	1568	199262	1.00	290	304	-6	312	20695
3153.0	1714	228490	1.00	294	309	-8	315	23483
3153.5	1862	259375	1.00	298	314	-9	317	26404
3154.0	2012	291893	1.00	302	320	-11	320	29455
3154.5	2164	326023	1.00	306	325	-12	322	32634
3155.0	2318	361760	1.00	310	330	-14	325	35941

CROSS-SECTION PROPERTIES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-S
 SECID=Q AT DISTANCE= 4540 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
3150.0	78	1539	1.00	249	250	53	302	249
3150.5	212	7550	1.00	277	277	34	311	1052
3151.0	353	17330	1.00	284	284	29	313	2230
3151.5	496	30171	1.00	289	290	25	314	3682
3152.0	642	45741	1.00	295	296	20	315	5367
3152.5	791	63895	1.00	301	302	15	316	7267
3153.0	943	84509	1.00	307	308	10	317	9367
3153.5	1098	106580	1.00	318	319	6	323	11582
3154.0	1260	131584	1.00	326	328	1	327	14045
3154.5	1424	159813	1.00	330	333	-2	327	16767
3155.0	1590	190293	1.00	335	337	-7	327	19662
3155.5	1759	222951	1.00	339	342	-11	327	22723
3156.0	1929	257739	1.00	343	347	-15	327	25944
			1.00	347	352	-19	327	29322

WS	A	K	ALPHA	B	P	LEW	REW	QC
3150.0	78	1539	1.00	249	250	53	302	249
3150.5	212	7550	1.00	277	277	34	311	1052
3151.0	353	17330	1.00	284	284	29	313	2230
3151.5	496	30171	1.00	289	290	25	314	3682
3152.0	642	45741	1.00	295	296	20	315	5367
3152.5	791	63895	1.00	301	302	15	316	7267
3153.0	943	84509	1.00	307	308	10	317	9367
3153.5	1098	106580	1.00	318	319	6	323	11582
3154.0	1260	131584	1.00	326	328	1	327	14045
3154.5	1424	159813	1.00	330	333	-2	327	16707
3155.0	1590	190293	1.00	335	337	-7	327	19662
3155.5	1759	222951	1.00	339	342	-11	327	22723
3156.0	1929	257739	1.00	343	347	-15	327	25944
3156.5	2102	294619	1.00	347	352	-19	327	29322
3157.0	2276	333557	1.00	352	356	-24	327	32854
3157.5	2453	374523	1.00	356	361	-28	327	36537
3158.0	2632	417493	1.00	360	366	-32	327	40367
3158.5	2813	462446	1.00	364	371	-36	327	44344

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 5, DATE= 9/12/77

CROSS-SECTION PROPERTIES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-S
 SECID=Q AT DISTANCE= 4540 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
3159.0	2997	509363	1.00	369	376	-41	327	48464
3159.5	3182	558228	1.00	373	380	-45	327	52726
3160.0	3369	609043	1.00	377	385	-49	327	57131

CROSS-SECTION PROPERTIES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-S
 SECID=R AT DISTANCE= 4807 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3153.0	1	4	1.00	13	13	94	107	1
3153.5	58	974	1.00	232	233	45	277	164
3154.0	175	6070	1.00	237	238	40	277	854
3154.5	298	14055	1.00	253	255	35	289	1830
3155.0	428	24731	1.00	269	271	31	300	3062
3155.5	572	36748	1.00	308	309	26	333	4429
3156.0	736	51665	1.00	346	347	21	367	6088
3156.5	917	70040	1.00	380	382	20	400	8085

CROSS-SECTION PROPERTIES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-S
 SECID=S AT DISTANCE= 4827 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
----	---	---	-------	---	---	-----	-----	----

3153.0	1	4	1.00	13	13	94	107	1
3153.5	58	974	1.00	232	233	45	277	164
3154.0	175	6070	1.00	237	238	40	277	854
3154.5	298	14055	1.00	253	255	35	289	1830
3155.0	428	24731	1.00	269	271	31	300	3062
3155.5	572	36748	1.00	308	309	26	333	4429
3156.0	736	51665	1.00	346	347	21	367	6088
3156.5	917	70040	1.00	380	382	20	400	8085

CROSS-SECTION PROPERTIES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-S
 SECID=S AT DISTANCE= 4827 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
3150.0	127	8039	1.00	25	32	17	238	1613
3150.5	140	9145	1.01	27	35	16	239	1801
3151.0	154	10296	1.01	29	38	15	239	1998
3151.5	169	11558	1.01	31	41	14	240	2216
3152.0	187	13013	1.03	41	51	13	245	2229
3152.5	210	14815	1.06	54	64	12	253	2284
3153.0	259	17106	1.24	146	157	11	262	1752
3153.5	362	21868	1.40	248	260	10	270	2089
3154.0	494	30908	1.28	278	291	-7	270	3299
3154.5	643	43274	1.17	320	333	-49	270	4783
3155.0	807	59007	1.11	337	350	-66	270	6743
3155.5	980	77825	1.08	353	367	-82	270	8924
3156.0	1161	99657	1.06	370	385	-99	270	11302
3156.5	1347	125075	1.05	374	389	-103	270	14150
3157.0	1534	153308	1.04	377	393	-106	270	17189
3157.5	1724	184226	1.04	381	397	-110	270	20410
3158.0	1915	217726	1.04	384	401	-113	270	23804
3158.5	2108	253724	1.04	388	405	-117	270	27368
3159.0	2303	292151	1.04	391	409	-120	270	31098
3159.5	2499	332950	1.04	395	413	-124	270	34990

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 6, DATE= 9/12/77

CROSS-SECTION PROPERTIES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-S
 SECID=S AT DISTANCE= 4827 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
3160.0	2698	376069	1.04	399	417	-128	270	39041
3160.5	2898	421466	1.04	402	421	-131	270	43249
3161.0	3100	469104	1.04	406	426	-135	270	47611
3161.5	3304	518951	1.04	409	430	-138	270	52123
3162.0	3509	570976	1.04	413	434	-142	270	56786
3162.5	3717	625155	1.05	416	438	-145	270	61595
3163.0	3926	681464	1.05	420	442	-149	270	66550

CROSS-SECTION PROPERTIES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-S
 SECS= AT DISTANCE= 4827 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
3160.0	2698	376069	1.04	399	417	-128	270	39041
3160.5	2898	421466	1.04	402	421	-131	270	43249
3161.0	3100	469104	1.04	406	426	-135	270	47611
3161.5	3304	518951	1.04	409	430	-138	270	52123
3162.0	3509	570976	1.04	413	434	-142	270	56786
3162.5	3717	625155	1.05	416	438	-145	270	61595
3163.0	3926	681464	1.05	420	442	-149	270	66550

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 7, DATE= 9/12/77

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES. CUL P-S
PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

Q	; WS TOO LOW		USED WSMIN = WSC
Q	; WS NOT FOUND BETWEEN	; WS = 3150.39 & WS = 3160.00;	USED DEL = 0.25
Q	; WS NOT FOUND		ASSUMED WS = WSC
R	; WS TOO LOW		USED WSMIN = WSC
R	; KU/KD < 0.7 OR > 1.4		ALERTED USER
S	; KU/KD < 0.7 OR > 1.4		ALERTED USER
S	; RIGHT BANK EXTENDED		ALERTED USER

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 8,DATE= 9/12/77

WATER-SURFACE PROFILE FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-5
PAGE 1 OF 1, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

```
=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC. *ID*
=====
P AT 4334 / 0 / 825. / 216. / 11969. / 1.00 / 49. / 222.
3147.10 / 0.23 / / 3147.33 / 3.81 / 0.55/ *IS*
-----
Q AT 4540 / 206 / 825. / 182. / 5883. / 1.00 / 35. / 309.
3150.39 / 0.32 /***** /***** / 3150.71 / 4.54 / 0.98 /***** *XS*
-----
R AT 4807 / 267 / 825. / 215. / 8395. / 1.00 / 39. / 281.
3154.17 / 0.23 / 3.68 / 0.0 / 3154.39 / 3.84 / 0.72 / 0.004 *XS*
-----
S AT 4827 / 20 / 1210. / 606. / 40070. / 1.19 / -40. / 270.
3154.38 / 0.07 / 0.06 / 0.0 / 3154.46 / 2.00 / 0.16 / -0.001 *XS*
=====
```

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 9,DATE= 9/12/77

COMPUTED WSC VALUES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-S
PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECID	Q	R
WSC	3150.39	3153.99

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 10,DATE= 9/12/77

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-S
PROFILE NUMBER 2, UPSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

Q 1 WS TOO LOW

USED WSMIN = NSC

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 10, DATE= 9/12/77

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-S
PROFILE NUMBER 2, UPSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

Q	; WS TOO LOW		
Q	; WS NOT FOUND BETWEEN		USED WSMIN = WSC
		; WS = 3150.39 & WS = 3160.00;	
Q	; WS NOT FOUND		USED DEL = 0.25
R	; WS TOO LOW		ASSUMED WS = WSC
R	; KU/KD < 0.7 OR > 1.4		USED WSMIN = WSC
S	; KU/KD < 0.7 OR > 1.4		ALERTED USER
S	; RIGHT BANK EXTENDED		ALERTED USER
			ALERTED USER

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 11, DATE= 9/12/77

WATER-SURFACE PROFILE FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-S
PAGE 1 OF 1, PROFILE NUMBER 2, UPSTREAM COMPUTATIONS

*USE THIS RUN FOR
OVERLAND PROFILE*

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID	
P	AT	4334	0	850.	216.	11969.	1.00	49.	222.
		3147.10	0.24		3147.34	3.93	0.56		*IS*
Q	AT	4540	206	850.	182.	5883.	1.00	35.	309.
		3150.39	0.34	*****	3150.73	4.68	1.01	*****	*XS*
R	AT	4807	267	850.	223.	8920.	1.00	38.	282.
		3154.20	0.23	3.68	0.0	3154.43	3.81	0.70	0.018 *XS*
S	AT	4827	20	1210.	615.	40863.	1.18	-43.	270.
		3154.41	0.07	0.06	0.0	3154.48	1.97	0.16	-0.001 *XS*

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*UPSTREAM COMPUTATIONS
CHECK*

*3154.20 + 0.23 = 3154.43
3154.43 + 0.07 = 3154.50
10/11/77 OK*

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 12 DATE= 9/12/77

COMPUTED WSC VALUES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-S
PROFILE NUMBER 2, UPSTREAM COMPUTATIONS

SECID	Q	R
	WSC 3150.39	3154.00

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 13,DATE= 9/12/77

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-S
PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

Q	; WS TOO LOW		
Q	; WS NOT FOUND BETWEEN		USED WSMIN = WSC
		; WS = 3150.41 & WS = 3160.00;	
Q	; WS NOT FOUND		USED DEL = 0.25
R	; WS TOO LOW		ASSUMED WS = WSC

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-S
PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

Q	; WS TOO LOW		
Q	; WS NOT FOUND BETWEEN		USED WSMIN = WSC
		; WS = 3150.41 & WS = 3160.00;	
Q	; WS NOT FOUND		USED DEL = 0.25
R	; WS TOO LOW		ASSUMED WS = WSC
R	; KU/KD < 0.7 OR > 1.4		USED WSMIN = WSC
S	; KU/KD < 0.7 OR > 1.4		ALERTED USER
S	; RIGHT BANK EXTENDED		ALERTED USER

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 14,DATE= 9/12/77

WATER-SURFACE PROFILE FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-5
PAGE 1 OF 1, PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

```
=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
P AT 4334 / 0 / 875. / 216. / 11969. / 1.00 / 49. / 222.
3147.10 / 0.25 / / 3147.35 / 4.05 / 0.58 / *IS*
=====
Q AT 4540 / 206 / 875. / 188. / 6192. / 1.00 / 35. / 310.
3150.41 / 0.34 /***** /***** / 3150.75 / 4.66 / 0.99 /***** *XS*
=====
R AT 4807 / 267 / 875. / 224. / 8957. / 1.00 / 38. / 282.
3154.20 / 0.24 / 3.69 / 0.0 / 3154.44 / 3.91 / 0.72 / 0.004 *XS*
=====
S AT 4827 / 20 / 1210. / 621. / 41310. / 1.18 / -44. / 270.
3154.43 / 0.07 / 0.06 / 0.0 / 3154.50 / 1.95 / 0.16 / -0.001 *XS*
=====
```

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 15,DATE= 9/12/77

COMPUTED WSC VALUES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-S
PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

SECID	Q	R
WSC	3150.41	3154.02

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 16,DATE= 9/12/77

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-S
PROFILE NUMBER 4, UPSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

Q	; WS TOO LOW		
Q	; WS NOT FOUND BETWEEN		USED WSMIN = WSC
		; WS = 3150.73 & WS = 3160.00;	
Q	; WS NOT FOUND		USED DEL = 0.25
R	; WS TOO LOW		ASSUMED WS = WSC
S	; KU/KD < 0.7 OR > 1.4		USED WSMIN = WSC
S	; RIGHT BANK EXTENDED		ALERTED USER
			ALERTED USER

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

Q	; WS TOO LOW		USED WSMIN = WSC
Q	; WS NOT FOUND BETWEEN	; WS = 3150.73 & WS = 3160.00;	USED DEL = 0.25
Q	; WS NOT FOUND		ASSUMED WS = WSC
R	; WS TOO LOW		USED WSMIN = WSC
S	; KU/KD < 0.7 OR > 1.4		ALERTED USER
S	; RIGHT BANK EXTENDED		ALERTED USER

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 17, DATE= 9/12/77

WATER-SURFACE PROFILE FOR: BOONE CREEK OVER-LAND FLOOD PROFILES (CUL P-S
PAGE 1 OF 1, PROFILE NUMBER 4, UPSTREAM COMPUTATIONS

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 17,DATE= 9/12/77

WATER-SURFACE PROFILE FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-S
PAGE 1 OF 1, PROFILE NUMBER 4, UPSTREAM COMPUTATIONS

```
=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
P AT 433+ / 0 / 1525. / 315. / 18536. / 1.00 / 5. / 257.
3147.70 / 0.36 / / 3148.06 / 4.84 / 0.66 / *IS*
-----
Q AT 4540 / 206 / 1525. / 277. / 11644. / 1.00 / 32. / 313.
3150.73 / 0.47 /***** /***** / 3151.2 / 5.51 / 0.98 /***** *XS*
-----
R AT 4807 / 267 / 1525. / 302. / 14409. / 1.00 / 35. / 289.
3154.52 / 0.40 / 3.70 / 0.0 / 3154.91 / 5.04 / 0.81 / 0.010 *XS*
-----
S AT 4827 / 20 / 1920. / 767. / 54941. / 1.12 / -63. / 270.
3154.88 / 0.11 / 0.07 / 0.0 / 3154.99 / 2.50 / 0.29 / -0.001 *XS*
=====
```

END OF THIS PROFILE.

USGS STEP-BACKWATER PROGRAM - VERSION 770180 *** PAGE COUNT= 18, DATE= 9/12/77

COMPUTED WSC VALUES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-S
PROFILE NUMBER 4, UPSTREAM COMPUTATIONS

SECID	Q	R
WSC	3150.73	3154.36

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 19, DATE= 9/12/77

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-S
PROFILE NUMBER 5, UPSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

Q	; WS TOO LOW			
Q	; WS NOT FOUND BETWEEN			USED WSMIN = WSC
		; WS = 3150.73 & WS = 3160.00;		
Q	; WS NOT FOUND			USED OEL = 0.25
R	; WS TOO LOW			ASSUMED WS = WSC
S	; KU/KD < 0.7 OR > 1.4			USED WSMIN = WSC
S	; RIGHT BANK EXTENDED			ALERTED USER
				ALERTED USER

Q	| WS NOT FOUND BETWEEN	| WS = 3150.73 & WS = 3160.00	USED DEL = 0.25
G	| WS NOT FOUND		ASSUMED WS = WSC
R	| WS TOO LOW		USED WSMIN = WSC
S	| KU/KD < 0.7 OR > 1.4		ALERTED USER
S	| RIGHT BANK EXTENDED		ALERTED USER

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 20, DATE= 9/12/77

USE THIS PROFILE

WATER-SURFACE PROFILE FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-S
 PAGE 1 OF 1, PROFILE NUMBER 5, UPSTREAM COMPUTATIONS

SECID	AT DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	*ID*
P	AT 4334	/ 0	/ 1550.	/ 315.	/ 18536.	/ 1.00	/ 5.	/ 257.
	3147.70	/ 0.38	/	/ 3148.08	/ 4.92	/ 0.67		*15*

USE THIS PROFILE

WATER-SURFACE PROFILE FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-S
PAGE 1 OF 1, PROFILE NUMBER 5, UPSTREAM COMPUTATIONS

	SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW	WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID
P			4334	0	1550.	315.	18536.	1.00	5.	257.	3147.70	0.38			3148.08	4.92	0.67		*IS*
Q			4540	206	1550.	277.	11673.	1.00	32.	313.	3150.73	0.49	*****	*****	3151.22	5.59	0.99	*****	*XS*
R			4807	267	1550.	308.	14827.	1.00	35.	289.	3154.54	0.39	3.71	0.0	3154.93	5.03	0.81	0.009	*XS*
S			4827	20	1920.	774.	55631.	1.12	-63.	270.	3154.90	0.11	0.07	0.0	3155.01	2.48	0.29	-0.001	*XS*

END OF THIS PROFILE

CRIT. SEE PROFILE 6

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 21, DATE= 9/12/77

COMPUTED WSC VALUES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-5
PROFILE NUMBER 5, UPSTREAM COMPUTATIONS

SECID	Q	R
WSC	3150.73	3154.38

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 22, DATE= 9/12/77

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-S
PROFILE NUMBER 6, UPSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

Q	; WS TOO LOW		
G	; WS NOT FOUND BETWEEN		USED WSMIN = WSC
		; WS = 3150.73 & WS = 3160.00;	
Q	; WS NOT FOUND		USED DEL = 0.25
R	; WS TOO LOW		ASSUMED WS = WSC
S	; KU/KD < 0.7 OR > 1.4		USED WSMIN = WSC
S	; RIGHT BANK EXTENDED		ALERTED USER
			ALERTED USER

S KU/MD < 0.7 OR > 1.4
S RIGHT BANK EXTENDED

ALERTED USER
ALERTED USER

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 23, DATE= 9/12/77

WATER-SURFACE PROFILE FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-S
PAGE 1 OF 1, PROFILE NUMBER 6, UPSTREAM COMPUTATIONS

=====										
SFCID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW										
WS) ELEV / HV / HF / HE / EG / V / FN / ACC *ID*										
=====										
P	AT	4334 /	0 /	1575. /	315. /	18536. /	1.00 /	5. /	257.	
		3147.70 /	0.39 /		/ 3148.09 /	5.00 /	0.68 /			*IS*

Q	AT	4540 /	206 /	1575. /	277. /	11673. /	1.00 /	32. /	313.	
		3150.73 /	0.50 /	***** /	***** /	3151.23 /	5.68 /	1.01 /	*****	*XS*

R	AT	4807 /	267 /	1575. /	314. /	15284. /	1.00 /	35. /	290.	
		3154.56 /	0.39 /	3.71 /	0.0 /	3154.96 /	5.02 /	0.80 /	0.008	*XS*

WATER-SURFACE PROFILE FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-S
 PAGE 1 OF 1, PROFILE NUMBER 6, UPSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	*ID*	
P	AT	4334	0	1575.	315.	18536.	1.00	5.	257.
3147.73	0.39			3148.09	5.00	0.68		*IS*	
Q	AT	4540	206	1575.	277.	11673.	1.00	32.	313.
3150.73	0.50	*****	*****	3151.23	5.68	1.01	*****	*XS*	
R	AT	4807	267	1575.	314.	15284.	1.00	35.	290.
3154.56	0.39	3.71	0.0	3154.96	5.02	0.80	0.008	*XS*	
S	AT	4827	20	1920.	781.	56334.	1.11	-64.	270.
3154.92	0.10	0.07	0.0	3155.03	2.46	0.28	-0.001	*XS*	

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 24,DATE= 9/12/77

COMPUTED WSC VALUES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-S
PROFILE NUMBER 6, UPSTREAM COMPUTATIONS

SECID	Q	R
WSC	3150.73	3154.38

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 25 DATE= 9/12/77

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-5
PROFILE NUMBER 7, UPSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

Q	; WS TOO LOW			
Q	; WS NOT FOUND BETWEEN			USED WSMIN = WSC
		; WS = 3150.84 & WS = 3160.00;		
Q	; WS NOT FOUND			USED DEL = 0.25
R	; WS TOO LOW			ASSUMED WS = WSC
S	; KU/KD < 0.7 OR > 1.4			USED WSMIN = WSC
S	; RIGHT BANK EXTENDED			ALERTED USER
				ALERTED USER

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 26,DATE= 9/12/77

WATER-SURFACE PROFILE FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-S
PAGE 1 OF 1, PROFILE NUMBER 7, UPSTREAM COMPUTATIONS

```
=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
P AT 4334 / 0 / 1825. / 354. / 22066. / 1.00 / 5. / 258.
3147.90 / 0.41 / / 3140.31 / 5.16 / 0.68/ *IS*
-----
Q AT 4540 / 206 / 1825. / 307. / 13826. / 1.00 / 31. / 313.
3150.84 / 0.55 /*****./***** / 3151.39 / 5.94 / 1.00 /***** *XS*
-----
R AT 4807 / 267 / 1825. / 340. / 17295. / 1.00 / 34. / 292.
3154.67 / 0.45 / 3.72 / 0.0 / 3155.11 / 5.37 / 0.83 / 0.006 *XS*
-----
S AT 4827 / 20 / 2220. / 830. / 61383. / 1.10 / -69. / 270.
3155.07 / 0.12 / 0.08 / 0.0 / 3155.19 / 2.67 / 0.30 / -0.001 *XS*
=====
```

END OF THIS PROFILE

```

=====
P  AT  4334 / 0 / 1825. / 354. / 22066. / 1.00 / 5. / 258.
   3147.90 / 0. / / 3148.31 / 5.16 / 0.68 / *IS*
=====
Q  AT  4540 / 206 / 1825. / 307. / 13826. / 1.00 / 31. / 313.
   3150.84 / 0.55 /***** /***** / 3151.39 / 5.94 / 1.00 /***** *(S*
=====
R  AT  4807 / 267 / 1825. / 340. / 17295. / 1.00 / 34. / 292.
   3154.67 / 0.45 / 3.72 / 0.0 / 3155.11 / 5.37 / 0.83 / 0.006 *XS*
=====
S  AT  4827 / 20 / 2220. / 830. / 61383. / 1.10 / -69. / 270.
   3155.07 / 0.12 / 0.08 / 0.0 / 3155.19 / 2.67 / 0.30 / -0.001 *XS*
=====

```

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 27,DATE= 9/12/77

COMPUTED WSC VALUES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-S
 PROFILE NUMBER 7, UPSTREAM COMPUTATIONS

SECID Q R
 WSC 3150.84 3154.50

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 27, DATE= 9/12/77

COMPUTED WSC VALUES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-5
PROFILE NUMBER 7, UPSTREAM COMPUTATIONS

SECID	Q	R
WSC	3150.84	3154.50

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 28, DATE= 9/12/77

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-S
PROFILE NUMBER 8, UPSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

Q	; WS TOO LOW		
Q	; WS NOT FOUND BETWEEN		USED WSMIN = WSC
		; WS = 3150.86 & WS = 3160.00;	
Q	; WS NOT FOUND		USED DEL = 0.25
			ASSUMED WS = WSC
R	; WS TOO LOW		USED WSMIN = WSC
S	; KU/KD < 0.7 OR > 1.4		ALERTED USER
S	; RIGHT BANK EXTENDED		ALERTED USER

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 29, DATE= 9/12/77

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WATER-SURFACE PROFILE FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-S
PAGE 1 OF 1, PROFILE NUMBER 8, UPSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEN	REW
MS ELEV	HV	HF	HE	EG	V	FN	ACC	ID*	
P	AT	4334	0	1850.	354.	22066.	1.00	5.	258.
		3147.90	0.43			3148.33	5.23	0.69	*IS*
Q	AT	4540	206	1850.	314.	14353.	1.00	31.	313.
		3150.86	0.54	*****	*****	3151.40	5.89	0.98	***** *XS*
R	AT	4807	267	1850.	338.	17145.	1.00	34.	292.
		3154.66	0.47	3.71	0.0	3155.12	5.47	0.84	0.007 *XS*
S	AT	4827	20	2220.	835.	61833.	1.10	-69.	270.
		3155.08	0.12	0.08	0.0	3155.20	2.66	0.30	-0.001 *XS*

END OF THIS PROFILE

R AT 4807 / 267 / 1850. / 338. / 17145. / 1.00 / 34. / 292.
 3154.66 / 0.47 / 3.71 / 0.0 / 3155.12 / 5.47 / 0.84 / 0.007 *XS*
 S AT 4827 / 20 / 2220. / 835. / 6183. / 1.10 / -69. / 270.
 3155.08 / 0.12 / 0.08 / 0.0 / 3155.20 / 2.66 / 0.30 / 0.001 *XS*

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 30, DATE= 9/12/77

COMPUTED WSC VALUES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-S
 PROFILE NUMBER 8, UPSTREAM COMPUTATIONS

SECID Q R
 WSC 3150.86 3154.51

COMPUTED WSC VALUES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-S
PROFILE NUMBER 8, UPSTREAM COMPUTATIONS

SECID Q R
WSC 3150.86 3154.51

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 31, DATE= 9/12/77

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL R-S
PROFILE NUMBER 9, UPSTREAM COMPUTATIONS

SECID: ERROR(WARNING) MESSAGE: INTERMEDIATE RESULTS(IF ANY): ACTION TAKEN

Q	| WS TOO LOW	|	USED WSMIN = WSC
Q	| WS NOT FOUND BETWEEN	|	USED DEL = 0.25
	|	| WS = 3150.86 & WS = 3160.00	
Q	| WS NOT FOUND	|	ASSUMED WS = WSC
R	| WS TOO LOW	|	USED WSMIN = WSC
S	| KU/KD < 0.7 OR > 1.4	|	ALERTED USER
S	| RIGHT BANK EXTENDED	|	ALERTED USER

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 32,DATE= 9/12/77

WATER-SURFACE PROFILE FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-S
PAGE 1 OF 1, PROFILE NUMBER 9, UPSTREAM COMPUTATIONS

```
=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
P AT 4334 / 0 / 1875. / 354. / 22066. / 1.00 / 5. / 258.
  3147.90 / 0.44 / / 3148.34 / 5.30 / 0.69 / *IS*
-----
Q AT 4540 / 206 / 1875. / 314. / 14353. / 1.00 / 31. / 313.
  3150.86 / 0.55 /***** /***** / 3151.42 / 5.97 / 1.00 /***** *XS*
-----
R AT 4807 / 267 / 1875. / 343. / 17586. / 1.00 / 34. / 293.
  3154.68 / 0.46 / 3.72 / 0.0 / 3155.14 / 5.46 / 0.84 / 0.006 *XS*
-----
S AT 4827 / 20 / 2220. / 841. / 62513. / 1.10 / -70. / 270.
  3155.10 / 0.12 / 0.08 / 0.0 / 3155.22 / 2.64 / 0.30 / -0.001 *XS*
=====
```

END OF THIS PROFILE

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 33, DATE= 9/12/77

COMPUTED WSC VALUES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-S
PROFILE NUMBER 9, UPSTREAM COMPUTATIONS

SECID	Q	R
	WSC 3150.86	3154.53

SECID 0 R
WSC 3150.86 3154.53

USGS STEP-BACKWATER PROGRAM - VERSION 77.185 ~~***~~ PAGE COUNT= 34, DATE= 9/12/77

PAGE 01 OF PROFILE NOTES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL: P-S 0
PROFILE NUMBER 10, UPSTREAM COMPUTATIONS

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 34,DATE= 9/12/77

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-S
PROFILE NUMBER 10, UPSTREAM COMPUTATIONS

SECID: ERROR(WARNING) MESSAGE: INTERMEDIATE RESULTS(IF ANY): ACTION TAKEN

Q	| WS TOO LOW		USED WSMIN = WSC
Q	| WS NOT FOUND BETWEEN	| WS = 3151.19 & WS = 3160.00	USED DEL = 0.25
Q	| WS NOT FOUND		ASSUMED WS = WSC
R	| WS TOO LOW		USED WSMIN = WSC
S	| KU/KD < 0.7 OR > 1.4		ALERTED USER
S	| RIGHT BANK EXTENDED		ALERTED USER

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 15, DATE= 9/12/77

WATER-SURFACE PROFILE FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-5
PAGE 1 OF 1, PROFILE NUMBER 10, UPSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID*	
P	AT	4334	0	2700.	476.	31531.	1.00	4.	273.
3148.45	0.50			3148.95	5.68	0.71		*IS*	
Q	AT	4540	206	2700.	405.	21767.	1.00	28.	313.0
3151.19	0.69	*****	*****	3151.88	6.66	0.98	*****	*XS*	
R	AT	4807	267	2700.	420.	23965.	1.00	31.	299.
3154.97	0.64	3.73	0.0	3155.61	6.44	0.91	0.005	*XS*	
S	AT	4827	20	3090.	993.	79372.	1.07	-85.	270.
3155.54	0.16	0.09	0.0	3155.70	3.11	0.34	-0.001	*XS*	

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 35, DATE= 9/12/77

COMPUTED WSC VALUES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-S
PROFILE NUMBER 10, UPSTREAM COMPUTATIONS

SECID Q R
WSC 3151.19 3154.87

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 37,DATE= 9/12/77

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-S
PROFILE NUMBER 11, UPSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

Q ; WS TOO LOW

USED WSMIN = WSC

Q ; WS NOT FOUND BETWEEN

WS = 3151.19 & WS = 3160.00

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-S
PROFILE NUMBER 11, UPSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

Q	; WS TOO LOW				
Q	; WS NOT FOUND BETWEEN				USED WSMIN = WSC
		; WS = 3151.19 & WS = 3160.00;			
Q	; WS NOT FOUND				USED DEL = 0.25
R	; WS TOO LOW				ASSUMED WS = WSC
S	; KU/KD < 0.7 OR > 1.4				USED WSMIN = WSC
S	; RIGHT BANK EXTENDED				ALERTED USER
					ALERTED USER

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 38, DATE= 9/12/77

USE THIS PROFILE

WATER-SURFACE PROFILE FOR: BOONE CREEK OVER-LAND PROFILES CUL P-S
PAGE 1 OF 1, PROFILE NUMBER 11, UPSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID	
P	AT	4334	0	2725.	476.	31531.	1.00	4.	273.
		3148.45	0.51			3148.96	5.73	0.72	*IS*
Q	AT	4540	206	2725.	405.	21767.	1.00	28.	313.
		3151.19	0.70	*****	*****	3151.89	6.72	0.99	***** *XS*
R	AT	4807	267	2725.	424.	24399.	1.00	31.	300.
		3154.99	0.64	3.73	0.0	3155.63	6.42	0.90	0.005 *XS*
S	AT	4827	20	3090.	999.	80026.	1.07	-85.	270.
		3155.55	0.6	0.09	0.0	3155.71	3.09	0.34	-0.000 *XS*

END OF THIS PROFILE

USE DRAWN

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 39, DATE= 9/12/77

COMPUTED WSC VALUES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-S
PROFILE NUMBER 11, UPSTREAM COMPUTATIONS

SECID Q R
WSC 3151.19 3154.87

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 40, DATE= 9/12/77

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-S
PROFILE NUMBER 12, UPSTREAM COMPUTATIONS

SECID; ERROR (WARNING) MESSAGE; INTERMEDIATE RESULTS (IF ANY); ACTION TAKEN

Q	; WS TOO LOW			USED WSMIN = WSC
Q	; WS NOT FOUND BETWEEN			
		WS = 3151.19 & WS = 3160.00		USED DEL = 0.25
Q	; WS NOT FOUND			ASSUMED WS = WSC
R	; WS TOO LOW			USED WSMIN = WSC
S	; KU/KD < 0.7 OR > 1.4			

SECID: ERROR(WARNING) MESSAGE: INTERMEDIATE RESULTS(IF ANY): ACTION TAKEN

Q	| WS TOO LOW	|	USED WSMIN = WSC
Q	| WS NOT FOUND BETWEEN	| WS = 3151.19 & WS = 3160.00|	USED DEL = 0.25
Q	| WS NOT FOUND	|	ASSUMED WS = WSC
R	| WS TOO LOW	|	USED WSMIN = WSC
S	| KU/KD < 0.7 OR > 1.4	|	ALERTED USER
S	| RIGHT BANK EXTENDED	|	ALERTED USER

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 41, DATE= 9/12/77

WATER-SURFACE PROFILE FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-S
PAGE 1 OF 1, PROFILE NUMBER 12, UPSTREAM COMPUTATIONS

```
=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
P AT 4334 / 0 / 2750. / 476. / 31531. / 1.00 / 4. / 273.
  3148.45 / 0.52 / / / 3148.97 / 5.78 / 0.72 / *IS*
-----
Q AT 4540 / 206 / 2750. / 405. / 21767. / 1.00 / 28. / 313.
  3151.19 / 0.72 /***** /***** / 3151.90 / 6.78 / 1.00 /***** *XS*
-----
R AT 4807 / 267 / 2750. / 430. / 24851. / 1.00 / 31. / 300.
  3155.01 / 0.64 / 3.73 / 0.0 / 3155.64 / 6.40 / 0.89 / 0.008 *XS*
-----
S AT 4827 / 20 / 3090. / 1004. / 80673. / 1.07 / -86. / 270.
  3155.57 / 0.16 / 0.09 / 0.0 / 3155.73 / 3.08 / 0.33 / -0.001 *XS*
=====
```

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 42, DATE= 9/12/77

COMPUTED WSC VALUES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-S
PROFILE NUMBER 12, UPSTREAM COMPUTATIONS

SECID	Q	R
WSC	3151.19	3154.89



*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8
1	1	ROONE CREEK	100-YR PROFILE	J-N	5	20	02	01 10
2	2	313480	313480	313480	313480	313480	313550	313550 313550 313550
2	3	313620	313620	313620	313620	313620	313700	313700 313700 313700
3	100	J-TW	1 17	1 3132	2887	99	99	
4	101	1500	1700	1800	1900	2200	1500	1700 1800 1900 2200
4	102	1500	1700	1800	1900	2200	1500	1700 1800 1900 2200
5	110	-100	1 31400	0	1 31352	13	1 31342	50 1 31331 109 1 31333
5	111	130	1 31332	150	1 31328	200	1 31328	224 1 31330 236 1 31336
5	112	250	1 31337	279	1 31348	287	1 31345	304 1 31346 305 1 31350
5	113	308	1 31352	308	1 31390			
6	115	1 2	030 030					
3	200	K	0 18	1 3133	3086	99	99	
5	210	-30	1 31400	0	1 31384	50	1 31350	100 1 31346 158 1 31350
5	211	162	1 31352	162	1 31336	172	1 31323	191 1 31349 211 1 31354
5	212	250	1 31350	297	1 31352	298	1 31348	322 1 31349 323 1 31353
5	213	329	1 31358	344	1 31378	355	1 31400	
6	215	1 2	035 035					
3	300	L	0 15	1 3133	3216	99	99	
5	310	-50	1 31450	-50	1 31358	0	1 31358	0 1 31348 9 1 31330
5	311	13	1 31332	20	1 31341	40	1 31360	75 1 31364 100 1 31362
5	312	125	1 31363	138	1 31362	163	1 31362	168 1 31375 210 1 31450
6	315	1 2	035 035					
3	400	M	0 13	1 3133	3276	99	99	
5	405	0	1 31450	0	1 31362	53	1 31365	53 1 31329 60 1 31321
5	406	85	1 31351	95	1 31450	178	1 31450	178 1 31369 194 1 31365
5	407	218	1 31366	223	1 31389	243	1 31450	
6	410	1 2	035 035					
3	500	N-APP	0 21	1 3137	3638	99	99	
5	505	-25	1 31450	0	1 31418	50	1 31399	96 1 31377 96 1 31450
5	506	121	1 31450	121	1 31372	138	1 31373	139 1 31372 149 1 31371
5	507	149	1 31450	179	1 31450	179	1 31377	226 1 31381 238 1 31385
5	508	239	1 31381	260	1 31381	261	1 31386	267 1 31403 285 1 31416
5	509	315	1 31450					
6	510	1 2	035 035					

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 2 DATE= 8/12/77

PAGE 1 OF EDITING NOTES FOR: BOONE CREEK 100-YR PROFILE J-N

SECID	ERROR SEVERITY	FIRST VARIABLE NO.	ERROR MESSAGE	SECOND VARIABLE NO.	VALUE ASSUMED
J-TW	WARNING	HSUB0	IS LESS THAN	GMIN	> GMIN
L	WARNING	HSUB0	IS LESS THAN	GMIN	> GMIN
N-APP	WARNING	HSUB0	IS LESS THAN	GMIN	> GMIN

USGS STEP-BACKWATER PROGRAM -- VERSION 77.180 *** PAGE COUNT= 3, DATE= 8/12/77

INPUT SUMMARY FOR: BOONE CREEK 100-YR PROFILE J-N

5 CROSS SECTIONS SPECIFIED (OR ASSUMED)

FOUND 5 TYPE 3 CARDS

KEPT 5 CROSS SECTIONS FOR EDITING

5 " " VALID FOR PROPERTY COMPUTATIONS

5 " " " " PROFILE "

CROSS-SECTION PROPERTIES FOR: ROONE CREEK 100-YR PROFILE
 SECID=J-TW AT DISTANCE= 2887

J-N
 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	RFW	QC
3133.0	13	196	1.00	84	84	140	224	30
3133.0	13	198	1.00	84	84	140	224	31
3133.1	22	432	1.00	91	91	135	226	62
3133.2	33	667	1.00	131	131	47	228	96
3133.3	49	1008	1.00	187	187	43	230	144
3133.4	68	1701	1.00	192	192	40	232	231
3133.5	88	2539	1.00	197	197	37	234	332
3133.6	108	3511	1.00	203	203	33	236	446
3133.7	129	4483	1.00	220	220	30	250	560
3133.8	151	5743	1.00	226	226	26	253	701
3133.9	174	7142	1.00	232	232	23	255	856
3134.0	198	8673	1.00	238	238	20	258	1022
3134.1	222	10331	1.00	244	244	16	261	1199
3134.2	247	12129	1.00	250	250	13	263	1389
3134.3	272	14115	1.00	254	254	12	266	1594
3134.4	297	16235	1.00	258	258	10	268	1811
3134.5	323	18484	1.00	262	262	9	271	2038
3134.6	351	19980	1.00	286	286	8	304	2205
3134.7	380	22441	1.00	292	293	7	304	2454
3134.8	409	25042	1.00	299	299	5	304	2715
3134.9	439	28081	1.00	301	301	4	305	3012
3135.0	470	31261	1.00	302	303	3	305	3319
3135.1	500	34487	1.00	305	305	1	306	3629
3135.2	531	37856	1.00	308	308	0	308	3950
3135.3	561	41401	1.00	310	310	-1	308	4285
3135.4	593	45087	1.00	312	313	-3	308	4631
3135.5	624	48905	1.00	314	315	-5	308	4987
3135.6	655	52842	1.00	316	317	-7	308	5351
3135.7	687	56918	1.00	318	319	-9	308	5726
3135.8	719	61110	1.00	320	321	-11	308	6109
3135.9	751	65440	1.00	323	323	-14	308	6503
3136.0	784	69895	1.00	325	326	-16	308	6906
3136.1	816	74464	1.00	327	328	-18	308	7317
3136.2	849	79168	1.00	329	330	-20	308	7738
3136.3	882	83983	1.00	331	332	-22	308	8167
3136.4	915	88932	1.00	333	334	-24	308	8605
3136.5	949	94004	1.00	335	337	-26	308	9053
3136.6	982	99184	1.00	337	339	-28	308	9508
3136.7	1016	104497	1.00	339	341	-30	308	9973
3136.8	1050	109918	1.00	341	343	-32	308	10446
3136.9	1084	115471	1.00	343	345	-34	308	10928
3137.0	1119	121145	1.00	346	348	-37	308	11419
3137.1	1153	126923	1.00	348	350	-39	308	11917
3137.2	1188	132834	1.00	350	352	-41	308	12424
3137.3	1223	138849	1.00	352	354	-43	308	12939

CROSS-SECTION PROPERTIES FOR: BOONE CREEK 100-YR PROFILE
 SECID=J-TW AT DISTANCE= 2887 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	RFW	QC
3137.4	1259	144997	1.00	354	356	-45	308	13464
3137.5	1294	151263	1.00	356	358	-47	308	13996
3137.6	1330	157631	1.00	358	361	-49	308	14536
3137.7	1366	164132	1.00	360	363	-51	308	15086
3137.8	1402	170734	1.00	362	365	-53	308	15642
3137.9	1438	177469	1.00	364	367	-55	308	16208
3138.0	1475	184322	1.00	366	369	-57	308	16782
3138.1	1511	191274	1.00	368	372	-59	308	17363
3138.2	1548	198360	1.00	370	374	-61	308	17953
3138.3	1585	205545	1.00	373	376	-64	308	18550
3138.4	1623	212865	1.00	375	378	-66	308	19157
3138.5	1660	220300	1.00	377	380	-68	308	19772
3138.6	1698	227834	1.00	379	382	-70	308	20393
3138.7	1736	235503	1.00	381	385	-72	308	21024
3138.8	1774	243269	1.00	383	387	-74	308	21661
3138.9	1813	251170	1.00	385	389	-76	308	22308
3139.0	1851	259188	1.00	387	391	-78	308	22964
3139.1	1890	267302	1.00	389	393	-80	308	23625
3139.2	1929	275552	1.00	391	396	-82	308	24296
3139.3	1968	283899	1.00	393	398	-84	308	24974
3139.4	2008	292382	1.00	395	400	-86	308	25661
3139.5	2048	300982	1.00	398	402	-89	308	26356
3139.6	2087	309677	1.00	400	404	-91	308	27058
3139.7	2128	318510	1.00	402	407	-93	308	27769
3139.8	2168	327437	1.00	404	409	-95	308	28487
3139.9	2208	336504	1.00	406	411	-97	308	29214

CROSS-SECTION PROPERTIES FOR: BOONE CREEK 100-YR PROFILE
 SECID=K AT DISTANCE= 3086 PART 1 OF 3

WS	A	K	ALPHA	B	P	LEW	RFW	QC
3133.0	4	77	1.00	11	11	167	177	12
3133.1	5	110	1.00	12	12	166	178	17
3133.2	6	151	1.00	14	14	165	179	23
3133.3	7	200	1.00	15	15	164	179	30
3133.4	9	258	1.00	17	17	164	180	38
3133.5	11	325	1.00	18	18	163	181	47
3133.6	13	403	1.00	20	20	162	182	58
3133.7	15	499	1.00	20	21	162	182	71
3133.8	17	605	1.00	21	21	162	183	85
3133.9	19	721	1.00	22	22	162	184	100
3134.0	21	845	1.00	22	23	162	184	116
3134.1	23	979	1.00	23	24	162	185	133

CROSS-SECTION PROPERTIES FOR: BOONE CREEK 100-YR PROFILE
SECID=K AT DISTANCE= 3086J-N
PART 2 OF 3

WS	A	K	ALPHA	B	P	LEW	RFW	OC
3134.2	26	1123	1.00	24	25	162	186	151
3134.3	28	1277	1.00	25	26	162	187	170
3134.4	31	1440	1.00	25	26	162	187	191
3134.5	33	1613	1.00	26	27	162	188	212
3134.6	36	1796	1.00	27	28	162	189	235
3134.7	40	1357	1.00	55	56	87	190	194
3134.8	47	1349	1.00	82	84	75	190	200
3134.9	58	1383	1.00	134	136	63	322	214
3135.0	73	1775	1.00	166	167	50	322	273
3135.1	91	2240	1.00	207	209	49	323	344
3135.2	114	2879	1.00	248	250	47	323	439
3135.3	140	3873	1.00	264	266	46	323	577
3135.4	167	5009	1.00	280	282	44	324	731
3135.5	195	6455	1.00	283	285	43	325	919
3135.6	223	8043	1.00	285	287	41	327	1122
3135.7	252	9777	1.00	288	290	40	328	1338
3135.8	281	11644	1.00	291	293	38	329	1568
3135.9	310	13661	1.00	293	295	37	330	1811
3136.0	340	15809	1.00	295	297	35	331	2067
3136.1	369	18079	1.00	297	300	34	331	2334
3136.2	399	20481	1.00	300	302	32	332	2614
3136.3	429	23000	1.00	302	304	31	333	2903
3136.4	460	25646	1.00	304	306	29	334	3205
3136.5	490	28412	1.00	306	308	28	334	3516
3136.6	521	31288	1.00	309	311	26	335	3838
3136.7	552	34289	1.00	311	313	25	336	4171
3136.8	583	37397	1.00	313	315	24	337	4513
3136.9	614	40627	1.00	315	317	22	337	4865
3137.0	646	43969	1.00	317	320	21	338	5228
3137.1	678	47416	1.00	320	322	19	339	5599
3137.2	710	50982	1.00	322	324	18	340	5981
3137.3	742	54650	1.00	324	326	16	340	6371
3137.4	775	58436	1.00	326	329	15	341	6771
3137.5	808	62332	1.00	329	331	13	342	7181
3137.6	840	66326	1.00	331	333	12	343	7599
3137.7	874	70438	1.00	333	335	10	343	8027
3137.8	907	74648	1.00	335	337	9	344	8463
3137.9	941	79011	1.00	337	339	7	345	8917
3138.0	975	83480	1.00	339	341	6	345	9370
3138.1	1008	88045	1.00	341	343	4	346	9836
3138.2	1043	92726	1.00	343	345	3	346	10311
3138.3	1077	97501	1.00	345	347	1	346	10794
3138.4	1112	102398	1.00	347	349	0	347	11287
3138.5	1147	107315	1.00	349	352	-1	348	11782
3138.6	1182	112324	1.00	352	354	-3	348	12284

CROSS-SECTION PROPERTIES FOR: ROONE CREEK 100-YR PROFILE
 SECID=K AT DISTANCE= 3086

J-N
 PART 3 OF 3

WS	A	K	ALPHA	B	P	LEW	RFW	QC
3138.7	1217	117449	1.00	354	357	-5	349	12795
3138.8	1252	122665	1.00	356	359	-6	349	13315
3138.9	1288	127997	1.00	359	361	-8	350	13844
3139.0	1324	133433	1.00	361	364	-10	350	14381
3139.1	1360	138959	1.00	364	366	-12	350	14926
3139.2	1397	144603	1.00	366	368	-14	351	15480
3139.3	1434	150335	1.00	368	371	-16	351	16042
3139.4	1471	156186	1.00	371	373	-18	352	16613
3139.5	1508	162140	1.00	373	376	-20	353	17193
3139.6	1545	168182	1.00	375	378	-21	353	17779
3139.7	1583	174343	1.00	378	380	-23	353	18376
3139.8	1621	180593	1.00	380	383	-25	354	18980
3139.9	1659	186961	1.00	383	385	-27	354	19593
3140.0	1697	193441	1.00	385	388	-29	355	20216

CROSS-SECTION PROPERTIES FOR: ROONE CREEK 100-YR PROFILE
 SECID=L AT DISTANCE= 3216

J-N
 PART 1 OF 3

WS	A	K	ALPHA	B	P	LEW	RFW	QC
3133.1	0	1	1.00	2	3	9	11	0
3133.1	0	1	1.00	2	3	9	11	0
3133.2	1	5	1.00	5	5	8	13	1
3133.3	1	14	1.00	6	6	8	14	2
3133.4	2	28	1.00	8	8	7	15	5
3133.5	3	48	1.00	9	9	6	15	8
3133.6	4	74	1.00	10	10	6	16	12
3133.7	5	106	1.00	11	11	5	17	17
3133.8	6	146	1.00	13	13	5	18	22
3133.9	7	193	1.00	14	14	5	18	29
3134.0	9	248	1.00	15	15	4	19	37
3134.1	10	312	1.00	16	17	4	20	45
3134.2	12	382	1.00	18	18	3	21	55
3134.3	14	461	1.00	20	20	3	22	66
3134.4	16	552	1.00	21	21	2	23	78
3134.5	18	654	1.00	23	23	1	24	91
3134.6	20	767	1.00	24	25	1	25	106
3134.7	23	893	1.00	26	26	0	26	122
3134.8	26	1032	1.00	27	28	0	27	140
3134.9	28	1194	1.00	28	29	0	28	161
3135.0	31	1368	1.00	29	30	0	29	182
3135.1	34	1553	1.00	31	31	0	31	206
3135.2	37	1752	1.00	32	32	0	32	230
3135.3	41	1964	1.00	33	33	0	33	256

CROSS-SECTION PROPERTIES FOR: ROONE CREEK
SECID=L AT DISTANCE= 3216

100-YR PROFILE

J-N
PART 2 OF 3

WS	A	K	ALPHA	R	P	LFW	RFW	QC
3135.4	44	2188	1.00	34	35	0	34	284
3135.5	47	2427	1.00	35	36	0	35	313
3135.6	51	2678	1.00	36	37	0	36	343
3135.7	54	2943	1.00	37	38	0	37	375
3135.8	58	3222	1.00	38	39	0	38	409
3135.9	67	2341	1.00	89	90	-49	39	330
3136.0	76	2862	1.00	90	92	-49	40	397
3136.1	85	3270	1.00	99	100	-49	49	451
3136.2	96	3737	1.00	108	109	-49	58	513
3136.3	112	3311	1.00	192	194	-49	163	486
3136.4	132	4074	1.00	214	216	-49	164	591
3136.5	154	5222	1.00	214	216	-49	164	740
3136.6	175	6478	1.00	215	217	-49	165	899
3136.7	197	7843	1.00	215	217	-49	165	1068
3136.8	218	9307	1.00	215	218	-49	165	1246
3136.9	240	10873	1.00	216	218	-49	166	1434
3137.0	261	12536	1.00	216	219	-49	166	1631
3137.1	283	14287	1.00	216	219	-49	166	1836
3137.2	305	16133	1.00	217	220	-49	167	2049
3137.3	326	18064	1.00	217	220	-49	167	2269
3137.4	348	20085	1.00	218	221	-49	168	2498
3137.5	370	22191	1.00	218	221	-49	168	2734
3137.6	392	24364	1.00	219	222	-49	169	2975
3137.7	414	26623	1.00	219	223	-49	169	3224
3137.8	436	28956	1.00	220	223	-49	170	3479
3137.9	458	31374	1.00	220	224	-49	170	3741
3138.0	480	33869	1.00	221	225	-49	171	4010
3138.1	502	36435	1.00	221	225	-49	171	4284
3138.2	524	39082	1.00	222	226	-49	172	4566
3138.3	546	41797	1.00	222	227	-49	172	4853
3138.4	568	44592	1.00	223	227	-49	173	5147
3138.5	591	47459	1.00	224	228	-49	174	5446
3138.6	613	50392	1.00	224	229	-49	174	5751
3138.7	636	53402	1.00	225	229	-49	175	6063
3138.8	658	56476	1.00	225	230	-49	175	6379
3138.9	681	59626	1.00	226	231	-49	176	6702
3139.0	703	62846	1.00	226	231	-49	176	7030
3139.1	726	66126	1.00	227	232	-49	177	7363
3139.2	749	69482	1.00	228	233	-49	178	7702
3139.3	771	72896	1.00	228	233	-49	178	8046
3139.4	794	76386	1.00	229	234	-49	179	8396
3139.5	817	79941	1.00	229	235	-49	179	8751
3139.6	840	83554	1.00	230	235	-49	180	9111
3139.7	863	87240	1.00	230	236	-49	180	9477
3139.8	886	90982	1.00	231	237	-49	181	9846

CROSS-SECTION PROPERTIES FOR: ROONE CREEK 100-YR PROFILE
 SECID=L AT DISTANCE= 3216

J-N
 PART 3 OF 3

WS	A	K	ALPHA	B	P	LEW	RFW	QC
3139.9	909	94797	1.00	231	237	-49	181	10222
3140.0	932	98676	1.00	232	238	-49	182	10603
3140.1	956	102609	1.00	233	239	-49	183	10988
3140.2	979	106614	1.00	233	239	-49	183	11378
3140.3	1002	110672	1.00	234	240	-49	184	11773
3140.4	1026	114802	1.00	234	241	-49	184	12174
3140.5	1049	118993	1.00	235	241	-49	185	12579
3140.6	1073	123236	1.00	235	242	-49	185	12988
3140.7	1096	127551	1.00	236	243	-49	186	13403
3140.8	1120	131915	1.00	236	243	-49	186	13821
3140.9	1144	136351	1.00	237	244	-49	187	14245
3141.0	1167	140847	1.00	238	245	-49	188	14674
3141.1	1191	145391	1.00	238	245	-49	188	15107
3141.2	1215	150007	1.00	239	246	-49	189	15545
3141.3	1239	154670	1.00	239	247	-49	189	15986
3141.4	1263	159404	1.00	240	247	-49	190	16433
3141.5	1287	164197	1.00	240	248	-49	190	16885
3141.6	1311	169036	1.00	241	249	-49	191	17340
3141.7	1335	173946	1.00	242	249	-49	192	17801
3141.8	1359	178902	1.00	242	250	-49	192	18265
3141.9	1383	183927	1.00	243	251	-49	193	18734

CROSS-SECTION PROPERTIES FOR: ROONE CREEK 100-YR PROFILE
 SECID=M AT DISTANCE= 3276

J-N
 PART 1 OF 3

WS	A	K	ALPHA	B	P	LEW	RFW	QC
3133.0	7	177	1.00	15	15	53	68	27
3133.1	8	235	1.00	15	16	53	68	35
3133.2	10	302	1.00	16	17	53	69	44
3133.3	12	376	1.00	17	18	53	70	54
3133.4	13	458	1.00	18	18	53	71	66
3133.5	15	549	1.00	19	19	53	72	78
3133.6	17	648	1.00	20	20	53	73	91
3133.7	19	755	1.00	20	21	53	73	105
3133.8	21	872	1.00	21	22	53	74	120
3133.9	23	997	1.00	22	23	53	75	136
3134.0	26	1132	1.00	23	24	53	76	153
3134.1	28	1275	1.00	24	25	53	77	172
3134.2	30	1429	1.00	25	26	53	78	191
3134.3	33	1592	1.00	25	27	53	78	211
3134.4	35	1765	1.00	26	28	53	79	233
3134.5	38	1948	1.00	27	29	53	80	256
3134.6	41	2141	1.00	28	30	53	81	280

CROSS-SECTION PROPERTIES FOR: BOONE CREEK 100-YR PROFILE
 SECID=M AT DISTANCE= 3276 PART 2 OF 3 J-N

WS	A	K	ALPHA	B	P	LEW	RFW	QC
3134.7	44	2345	1.00	29	31	53	82	305
3134.8	46	2559	1.00	29	32	53	82	331
3134.9	49	2785	1.00	30	33	53	83	358
3135.0	53	3022	1.00	31	33	53	84	387
3135.1	56	3270	1.00	32	34	53	85	417
3135.2	59	3575	1.00	32	35	53	85	453
3135.3	62	3889	1.00	32	35	53	85	491
3135.4	65	4213	1.00	32	35	53	85	529
3135.5	69	4546	1.00	32	35	53	85	569
3135.6	72	4886	1.00	32	35	53	85	609
3135.7	75	5236	1.00	32	36	53	85	650
3135.8	78	5592	1.00	32	36	53	85	692
3135.9	81	5957	1.00	32	36	53	85	735
3136.0	85	6330	1.00	32	36	53	85	779
3136.1	88	6709	1.00	32	36	53	85	824
3136.2	91	7097	1.00	32	37	53	85	869
3136.3	95	5853	1.00	50	55	0	85	745
3136.4	101	5348	1.00	67	73	0	85	700
3136.5	108	5211	1.00	85	91	0	85	695
3136.6	118	5032	1.00	113	119	0	218	687
3136.7	130	5732	1.00	117	123	0	218	776
3136.8	142	6480	1.00	121	128	0	218	870
3136.9	154	7281	1.00	126	132	0	219	969
3137.0	167	8276	1.00	126	133	0	219	1089
3137.1	179	9317	1.00	126	133	0	219	1214
3137.2	192	10407	1.00	126	134	0	219	1343
3137.3	205	11542	1.00	127	134	0	220	1476
3137.4	217	12723	1.00	127	135	0	220	1614
3137.5	230	13949	1.00	127	135	0	220	1756
3137.6	243	15215	1.00	127	136	0	220	1902
3137.7	255	16525	1.00	127	136	0	220	2052
3137.8	268	17873	1.00	128	137	0	221	2205
3137.9	281	19265	1.00	128	137	0	221	2363
3138.0	294	20697	1.00	128	138	0	221	2524
3138.1	307	22164	1.00	128	139	0	221	2688
3138.2	319	23672	1.00	128	139	0	221	2857
3138.3	332	25214	1.00	129	140	0	222	3028
3138.4	345	26797	1.00	129	140	0	222	3203
3138.5	358	28416	1.00	129	141	0	222	3382
3138.6	371	30066	1.00	129	141	0	222	3563
3138.7	384	31756	1.00	130	142	0	223	3748
3138.8	397	33477	1.00	130	142	0	223	3936
3138.9	410	35237	1.00	130	143	0	223	4128
3139.0	423	37012	1.00	130	143	0	223	4321
3139.1	436	38816	1.00	131	144	0	224	4517

CROSS-SECTION PROPERTIES FOR: ROONE CREEK 100-YR PROFILE
 SECID=M AT DISTANCE= 3276 PART 3 OF 3 J-N

WS	A	K	ALPHA	R	P	LEW	RFW	QC
3139.2	449	40658	1.00	131	145	0	224	4716
3139.3	462	42528	1.00	131	145	0	224	4917
3139.4	475	44434	1.00	132	146	0	225	5122
3139.5	488	46373	1.00	132	147	0	225	5331
3139.6	502	48338	1.00	132	147	0	225	5541
3139.7	515	50340	1.00	133	148	0	226	5755
3139.8	528	52367	1.00	133	149	0	226	5971
3139.9	542	54431	1.00	133	149	0	226	6191
3140.0	555	56524	1.00	134	150	0	227	6414
3140.1	568	58643	1.00	134	151	0	227	6639
3140.2	582	60797	1.00	134	151	0	227	6867
3140.3	595	62975	1.00	135	152	0	228	7097
3140.4	609	65188	1.00	135	152	0	228	7331
3140.5	622	67430	1.00	135	153	0	228	7567
3140.6	636	69696	1.00	136	154	0	229	7806
3140.7	649	71996	1.00	136	154	0	229	8048
3140.8	663	74319	1.00	136	155	0	229	8292
3140.9	676	76676	1.00	137	156	0	230	8539
3141.0	690	79061	1.00	137	156	0	230	8789
3141.1	704	81468	1.00	137	157	0	230	9041
3141.2	718	83909	1.00	138	158	0	231	9296
3141.3	731	86372	1.00	138	158	0	231	9553
3141.4	745	88868	1.00	138	159	0	231	9813
3141.5	759	91391	1.00	139	160	0	232	10076
3141.6	773	93936	1.00	139	160	0	232	10341
3141.7	787	96513	1.00	139	161	0	232	10609
3141.8	801	99111	1.00	140	161	0	233	10879
3141.9	815	101742	1.00	140	162	0	233	11152

CROSS-SECTION PROPERTIES FOR: ROONE CREEK 100-YR PROFILE
 SECID=N-APP AT DISTANCE= 3638 PART 1 OF 3 J-N

WS	A	K	ALPHA	B	P	LEW	RFW	QC
3137.3	2	20	1.00	28	28	121	149	4
3137.3	2	20	1.00	28	28	121	149	4
3137.4	5	72	1.00	28	29	121	149	13
3137.5	8	147	1.00	28	29	121	149	24
3137.6	11	240	1.00	28	29	121	149	38
3137.7	14	351	1.00	28	29	121	149	54
3137.8	17	393	1.00	42	43	94	191	62
3137.9	22	494	1.00	56	58	92	203	79
3138.0	28	647	1.00	70	72	90	214	102
3138.1	36	857	1.00	83	86	88	226	134

CROSS-SECTION PROPERTIES FOR: ROONE CREEK 100-YR PROFILE
 SECID=N-APP AT DISTANCE= 3678 PART 2 OF 3

WS	A	K	ALPHA	R	P	LEW	RFW	QC
3138.2	47	1103	1.00	110	113	86	260	173
3138.3	58	1527	1.00	115	119	83	260	233
3138.4	70	2014	1.00	121	125	81	261	301
3138.5	82	2564	1.00	127	131	79	261	376
3138.6	95	3217	1.00	129	134	77	261	462
3138.7	108	3929	1.00	131	137	75	261	555
3138.8	121	4698	1.00	134	139	73	262	654
3138.9	135	5528	1.00	136	142	71	262	760
3139.0	148	6414	1.00	139	145	69	262	871
3139.1	162	7354	1.00	141	148	67	263	989
3139.2	177	8353	1.00	143	151	65	263	1112
3139.3	191	9404	1.00	146	154	63	263	1240
3139.4	206	10513	1.00	148	157	60	264	1375
3139.5	221	11676	1.00	151	159	58	264	1515
3139.6	236	12891	1.00	153	162	56	265	1661
3139.7	251	14163	1.00	156	165	54	265	1812
3139.8	267	15487	1.00	158	168	52	265	1969
3139.9	283	16873	1.00	161	171	50	266	2132
3140.0	299	18273	1.00	164	174	47	266	2297
3140.1	316	19725	1.00	167	178	45	266	2467
3140.2	333	21237	1.00	170	181	42	267	2643
3140.3	350	22801	1.00	173	185	39	267	2824
3140.4	367	24343	1.00	177	189	37	268	3004
3140.5	385	25947	1.00	181	193	34	270	3190
3140.6	403	27607	1.00	185	198	32	271	3381
3140.7	422	29335	1.00	189	202	29	273	3580
3140.8	441	31121	1.00	193	207	26	274	3785
3140.9	460	32977	1.00	197	211	24	275	3997
3141.0	480	34898	1.00	201	215	21	277	4216
3141.1	501	36880	1.00	205	220	18	278	4441
3141.2	521	38934	1.00	209	224	16	279	4673
3141.3	542	41051	1.00	213	229	13	281	4912
3141.4	564	43242	1.00	217	233	11	282	5158
3141.5	586	45503	1.00	221	238	8	284	5412
3141.6	608	47829	1.00	225	242	5	285	5672
3141.7	631	50296	1.00	228	246	3	286	5946
3141.8	654	52829	1.00	232	250	0	287	6226
3141.9	677	55694	1.00	233	252	0	288	6538
3142.0	700	58624	1.00	235	254	-1	289	6856
3142.1	724	61613	1.00	237	256	-1	289	7180
3142.2	748	64674	1.00	239	258	-2	290	7510
3142.3	772	67792	1.00	240	260	-3	291	7845
3142.4	796	70983	1.00	242	262	-4	292	8188
3142.5	820	74238	1.00	243	264	-4	293	8536
3142.6	844	77550	1.00	245	266	-5	294	8889

CROSS-SECTION PROPERTIES FOR: ROONE CREEK 100-YR PROFILE
 SECID=N-APP AT DISTANCE= 3638 PART 3 OF 3

WS	A	K	ALPHA	B	D	LEW	REW	QC
3142.7	869	80934	1.00	247	269	-6	295	9250
3142.8	894	84374	1.00	248	271	-7	296	9615
3142.9	919	87887	1.00	250	273	-8	296	9987
3143.0	944	91464	1.00	252	275	-8	297	10365
3143.1	969	95096	1.00	253	277	-9	298	10747
3143.2	994	98801	1.00	255	279	-10	299	11137
3143.3	1020	102560	1.00	257	281	-11	300	11532
3143.4	1046	106393	1.00	258	283	-12	301	11933
3143.5	1072	110290	1.00	260	285	-12	302	12340
3143.6	1098	114241	1.00	262	287	-13	303	12752
3143.7	1124	118266	1.00	263	289	-14	304	13171
3143.8	1150	122345	1.00	265	291	-15	304	13594
3143.9	1177	126498	1.00	267	293	-15	305	14025
3144.0	1204	130714	1.00	268	296	-16	306	14461
3144.1	1231	134985	1.00	270	298	-17	307	14902
3144.2	1258	139329	1.00	272	300	-18	308	15350
3144.3	1285	143727	1.00	273	302	-19	309	15803
3144.4	1312	148201	1.00	275	304	-19	310	16262
3144.5	1340	152738	1.00	277	306	-20	311	16727
3144.6	1368	157328	1.00	278	308	-21	311	17197
3144.7	1396	161994	1.00	280	310	-22	312	17674
3144.8	1424	166713	1.00	282	312	-22	313	18156
3144.9	1452	171508	1.00	283	314	-23	314	18644

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 14. DATE= 8/12/77

PAGE 1 OF PROFILE NOTES FOR: BOONS CREEK 100-YR PROFILE J-N
PROFILE NUMBER: 1, UPSTREAM COMPUTATIONS

SECID: ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

K : KU/KD < 0.7 OR > 1.4 :

ALERTED USER

N-APP: KU/KD < 0.7 OR > 1.4 :

ALERTED USER

WATER-SURFACE PROFILE FOR: BOONE CREEK 100-YR PROFILE J-N
 PAGE 1 OF 1. PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LFW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID*	
J-TW	AT	2887	0	1500.	409.	25042.	1.00	5.	304.
3134.80		0.21			3135.01	3.66	0.55		*IS*
K	AT	3086	199	1500.	324.	14614.	1.00	36.	330.
3135.95		0.33	1.22	0.06	3136.28	4.64	0.78	-0.016	*XS*
L	AT	3216	130	1500.	303.	15945.	1.00	-50.	167.
3137.19		0.38	1.26	0.02	3137.57	4.96	0.74	0.013	*XS*
M	AT	3276	60	1500.	248.	15708.	1.00	0.	220.
3137.64		0.57	0.54	0.09	3138.21	6.06	0.77	0.003	*XS*
N-APP	AT	3638	362	1500.	342.	22106.	1.00	41.	267.
3140.26		0.30	2.35	0.0	3140.55	4.38	0.55	0.000	*XS*

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 16 DATE= 8/12/77

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK 100-YR PROFILE J-N
PROFILE NUMBER 2, UPSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

K ; KU/KD < 0.7 OR > 1.4 ;

ALERTED USER

N-APP; KU/KD < 0.7 OR > 1.4 ;

ALERTED USER

WATER-SURFACE PROFILE FOR: BOONE CREEK 100-YR PROFILE J-N
 PAGE 1 OF 1, PROFILE NUMBER 2. UPSTREAM COMPUTATIONS

	SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	IFW	REW	WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID
J-TW	AT	2887	0	1700.	409.	25042.	1.00	5.	304.		3134.80	0.27			3135.07	4.15	0.63		*IS*
K	AT	3086	199	1700.	362.	17507.	1.00	34.	331.		3136.08	0.34	1.31	0.04	3136.42	4.70	0.75	0.001	*XS*
L	AT	3216	130	1700.	320.	17483.	1.00	-50.	167.		3137.27	0.44	1.23	0.05	3137.71	5.31	0.77	0.015	*XS*
M	AT	3276	60	1700.	261.	17068.	1.00	0.	220.		3137.74	0.66	0.58	0.11	3138.40	6.52	0.80	-0.000	*XS*
N-APP	A1	3638	362	1700.	381.	25613.	1.00	35.	269.		3140.48	0.31	2.39	0.0	3140.79	4.46	0.54	-0.007	*XS*

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 18. DATE= 8/12/77

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK 100-YR PROFILE J-N
PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

SECTION: ERROR (WARNING) MESSAGE; INTERMEDIATE RESULTS (IF ANY); ACTION TAKEN

N-APP: KU/KD < 0.7 OR > 1.4

ALERTED USER

WATER-SURFACE PROFILE FOR: BOONE CREEK 100-YR PROFILE J-N
 PAGE 1 OF 1; PROFILE NUMBER 3; UPSTREAM COMPUTATIONS

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SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
J-TW AT 2887 / 0 / 1800. / 409. / 25042. / 1.00 / 5. / 304.
3134.80 / 0.30 / / 3135.10 / 4.40 / 0.66 / *IS*
-----
K AT 3086 / 199 / 1800. / 380. / 18932. / 1.00 / 33. / 332.
3136.14 / 0.35 / 1.36 / 0.02 / 3136.48 / 4.74 / 0.74 / -0.000 *XS*
-----
L AT 3216 / 130 / 1800. / 327. / 18121. / 1.00 / -50. / 167.
3137.30 / 0.47 / 1.23 / 0.06 / 3137.77 / 5.50 / 0.79 / -0.000 *XS*
-----
M AT 3276 / 60 / 1800. / 268. / 17884. / 1.00 / 0. / 221.
3137.80 / 0.70 / 0.60 / 0.11 / 3138.50 / 6.71 / 0.82 / 0.012 *XS*
-----
N-APP AT 3638 / 362 / 1800. / 401. / 27430. / 1.00 / 32. / 271.
3140.59 / 0.31 / 2.39 / 0.0 / 3140.90 / 4.48 / 0.54 / 0.010 *XS*
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END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 20, DATE= 8/12/77

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK 100-YR PROFILE J-N
PROFILE NUMBER 4, UPSTREAM COMPUTATIONS

SECID: ERROR (WARNING) MESSAGE: INTERMEDIATE RESULTS (IF ANY); ACTION TAKEN

N-APP: KU/KD < 0.7 OR > 1.4

ALERTED USER

WATER-SURFACE PROFILE FOR: BOONE CREEK 100-YR PROFILE J-N
 PAGE 1 OF 1, PROFILE NUMBER 4, UPSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	*ID*	
J-TW	AT	2887	0	1900.	409.	25042.	1.00	5.	304.
3134.80		0.34			3135.13	4.64	0.70		*IS*
K	AT	3086	199	1900.	397.	20337.	1.00	32.	332.
3136.19		0.36	1.41	0.01	3136.55	4.79	0.73		*XS*
L	AT	3216	130	1900.	335.	18852.	1.00	-50.	167.
3137.34		0.50	1.22	0.07	3137.84	5.67	0.81		*XS*
M	AT	3276	60	1900.	273.	18388.	1.00	0.	221.
3137.84		0.75	0.62	0.13	3138.59	6.96	0.84		*XS*
N-APP	AT	3638	362	1900.	422.	29322.	1.00	29.	273.
3140.70		0.32	2.42	0.0	3141.01	4.50	0.53		*XS*

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 22. DATE= 8/12/77

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK 100-YR PROFILE J-N
PROFILE NUMBER 5, UPSTREAM COMPUTATIONS

SECID: ERROR(WARNING) MESSAGE: INTERMEDIATE RESULTS(IF ANY): ACTION TAKEN

N-APP: KU/KD < 0.7 OR > 1.4

ALERTED USER

WATER SURFACE PROFILE FOR: BOONE CREEK 100-YR PROFILE J-N
 PAGE 1 OF 1, PROFILE NUMBER 5, UPSTREAM COMPUTATIONS

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SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
J-TW AT 2887 / 0 / 2200. / 409. / 25042. / 1.00 / 5. / 304.
3134.80 / 0.45 / / / 3135.25 / 5.37 / 0.81 / *IS*
-----
K AT 3086 / 199 / 2200. / 458. / 25468. / 1.00 / 30. / 333.
3136.39 / 0.36 / 1.51 / 0.0 / 3136.75 / 4.81 / 0.69 / -0.007 *XS*
-----
L AT 3216 / 130 / 2200. / 359. / 21138. / 1.00 / -50. / 168.
3137.45 / 0.58 / 1.17 / 0.11 / 3138.03 / 6.13 / 0.84 / 0.000 *XS*
-----
M AT 3276 / 60 / 2200. / 290. / 20298. / 1.00 / 0. / 221.
3137.97 / 0.89 / 0.68 / 0.16 / 3138.87 / 7.58 / 0.89 / -0.000 *XS*
-----
N-APP AT 3638 / 362 / 2200. / 482. / 35098. / 1.00 / 21. / 277.
3141.01 / 0.32 / 2.46 / 0.0 / 3141.33 / 4.56 / 0.52 / 0.008 *XS*
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END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 24. DATE= 8/12/77

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK 100-YR PROFILE J-N
PROFILE NUMBER 6, UPSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

R ; KU/KD < 0.7 OR > 1.4 ;

ALERTED USER

N-APP; KU/KD < 0.7 OR > 1.4 ;

ALERTED USER

WATER-SURFACE PROFILE FOR: BOONE CREEK 100-YR PROFILE J-N
 PAGE 1 OF 1, PROFILE NUMBER 6, UPSTREAM COMPUTATIONS

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=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LFW / REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
J-TW AT 2887 / 0 / 1500. / 624. / 48905. / 1.00 / -6. / 308.
3135.50 / 0.09 / / 3135.59 / 2.40 / 0.30 / *IS*
-----
K AT 3086 / 199 / 1500. / 335. / 15428. / 1.00 / 36. / 330.
3135.98 / 0.31 / 0.59 / 0.11 / 3136.29 / 4.48 / 0.74 / 0.000 *XS*
-----
L AT 3216 / 130 / 1500. / 297. / 15488. / 1.00 / -50. / 167.
3137.17 / 0.40 / 1.22 / 0.04 / 3137.56 / 5.05 / 0.76 / 0.000 *XS*
-----
M AT 3276 / 60 / 1500. / 247. / 15657. / 1.00 / 0. / 220.
3137.63 / 0.57 / 0.56 / 0.09 / 3138.21 / 6.07 / 0.77 / -0.000 *XS*
-----
N-APP AT 3638 / 362 / 1500. / 343. / 22148. / 1.00 / 41. / 267.
3140.26 / 0.30 / 2.35 / 0.0 / 3140.56 / 4.38 / 0.55 / 0.000 *XS*
=====
    
```

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 26. DATE= 8/12/77

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK 100-YR PROFILE J-N
PROFILE NUMBER 7, UPSTREAM COMPUTATIONS

SECID: ERROR(WARNING) MESSAGE: INTERMEDIATE RESULTS(IF ANY): ACTION TAKEN

K : KU/KD < 0.7 OR > 1.4 ;

ALERTED USER

N-APP: KU/KD < 0.7 OR > 1.4 ;

ALERTED USER

WATER-SURFACE PROFILE FOR: BOONE CREEK 100-YR PROFILE J-N
 PAGE 1 OF 1, PROFILE NUMBER 7, UPSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW	WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID*
J-TW	AT	2887	0	1700.	624.	48905.	1.00	-6.	308.	3135.50	0.12			3135.62	2.72	0.34		*IS*
K	AT	3086	199	1700.	359.	17266.	1.00	34.	331.	3136.06	0.35	0.68	0.12	3136.41	4.74	0.76	0.000	*XS*
L	AT	3216	130	1700.	318.	17279.	1.00	-50.	167.	3137.26	0.45	1.26	0.05	3137.70	5.35	0.78	-0.017	*XS*
M	AT	3276	50	1700.	261.	17058.	1.00	0.	220.	3137.74	0.66	0.59	0.11	3138.40	6.53	0.80	-0.000	*XS*
N-APP	AT	3638	362	1700.	381.	25601.	1.00	35.	269.	3140.48	0.31	2.40	0.0	3140.79	4.46	0.54	-0.010	*XS*

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 28, DATE= 8/12/77

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK 100-YR PROFILE J-N
PROFILE NUMBER: 8, UPSTREAM COMPUTATIONS

SECID: ERROR (WARNING) MESSAGE: INTERMEDIATE RESULTS (IF ANY): ACTION TAKEN

K ; KU/KD < 0.7 OR > 1.4 ;

ALERTED USER

N-APP: KU/KD < 0.7 OR > 1.4 ;

ALERTED USER

WATER-SURFACE PROFILE FOR: BOONE CREEK 100-YR PROFILE J-N
 PAGE 1 OF 1, PROFILE NUMBER 8, UPSTREAM COMPUTATIONS

```

=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
J-TW AT 2887 / 0 / 1800. / 624. / 48905. / 1.00 / -6. / 308.
3135.50 / 0.13 / / 3135.63 / 2.88 / 0.36 / *IS*
-----
K AT 3086 / 199 / 1800. / 369. / 18022. / 1.00 / 34. / 331.
3136.10 / 0.37 / 0.73 / 0.12 / 3136.47 / 4.88 / 0.77 / -0.014 *XS*
-----
L AT 3216 / 130 / 1800. / 331. / 18451. / 1.00 / -50. / 167.
3137.32 / 0.46 / 1.27 / 0.05 / 3137.78 / 5.44 / 0.78 / -0.000 *XS*
-----
M AT 3276 / 60 / 1800. / 267. / 17743. / 1.00 / 0. / 221.
3137.79 / 0.71 / 0.59 / 0.12 / 3138.50 / 6.74 / 0.82 / 0.000 *XS*
-----
N-APP AT 3638 / 362 / 1800. / 402. / 27471. / 1.00 / 32. / 271.
3140.59 / 0.31 / 2.41 / 0.0 / 3140.90 / 4.48 / 0.53 / -0.000 *XS*
=====
    
```

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 30,DATE= 8/12/77

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK 100-YR PROFILE J-N
PROFILE NUMBER 9, UPSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

K ; KU/KD < 0.7 OR > 1.4 ;

ALERTED USER

N-APP; KU/KD < 0.7 OR > 1.4 ;

ALERTED USER

WATER-SURFACE PROFILE FOR: BOONE CREEK 100-YR PROFILE J-N
 PAGE 1 OF 1, PROFILE NUMBER 9, UPSTREAM COMPUTATIONS

```

=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LFW / REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
J-TW AT 2887 / 0 / 1900. / 624. / 48905. / 1.00 / -6. / 308.
3135.50 / 0.14 / / 3135.64 / 3.05 / 0.38 / *IS*
-----
K AT 3086 / 199 / 1900. / 383. / 19200. / 1.00 / 33. / 332.
3136.15 / 0.38 / 0.77 / 0.12 / 3136.53 / 4.96 / 0.77 / 0.001 *XS*
-----
L AT 3216 / 130 / 1900. / 340. / 19306. / 1.00 / -50. / 167.
3137.36 / 0.49 / 1.27 / 0.05 / 3137.85 / 5.59 / 0.79 / 0.000 *XS*
-----
M AT 3276 / 60 / 1900. / 273. / 18405. / 1.00 / 0. / 221.
3137.84 / 0.75 / 0.61 / 0.13 / 3138.59 / 6.96 / 0.84 / 0.000 *XS*
-----
N-APP AT 3638 / 362 / 1900. / 422. / 29309. / 1.00 / 29. / 273.
3140.70 / 0.32 / 2.42 / 0.0 / 3141.01 / 4.51 / 0.53 / 0.000 *XS*
=====
    
```

END OF THIS PROFILE

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK 100-YR PROFILE J-N
PROFILE NUMBER 10, UPSTREAM COMPUTATIONS

SECID; ERROR (WARNING) MESSAGE; INTERMEDIATE RESULTS (IF ANY); ACTION TAKEN

K ; KU/KD < 0.7 OR > 1.4 ; ALERTEO USER

N-APP; KU/KD < 0.7 OR > 1.4 ; ALERTEO USER

WATER-SURFACE PROFILE FOR: BOONE CREEK 100-YR PROFILE J-N
 PAGE 1 OF 1, PROFILE NUMBER 10, UPSTREAM COMPUTATIONS

```

=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LFW / REW
WS ELEV / HV / HF / HE / FG / V / FN / ACC *ID*
=====
J-TW AT 2887 / 0 / 2200. / 624. / 48905. / 1.00 / -6. / 308.
3135.50 / 0.19 / / 3135.69 / 3.53 / 0.44 / *IS*
-----
K AT 3086 / 199 / 2200. / 420. / 22229. / 1.00 / 31. / 333.
3136.27 / 0.43 / 0.89 / 0.12 / 3136.70 / 5.24 / 0.78 / 0.000 *XS*
-----
L AT 3216 / 130 / 2200. / 368. / 22013. / 1.00 / -50. / 168.
3137.49 / 0.56 / 1.29 / 0.06 / 3138.05 / 5.98 / 0.81 / 0.000 *XS*
-----
M AT 3276 / 60 / 2200. / 292. / 20545. / 1.00 / 0. / 221.
3137.99 / 0.88 / 0.64 / 0.16 / 3138.87 / 7.52 / 0.88 / 0.018 *XS*
-----
N-APP AT 3638 / 362 / 2200. / 479. / 34784. / 1.00 / 71. / 277.
3140.99 / 0.33 / 2.45 / 0.0 / 3141.32 / 4.59 / 0.52 / 0.000 *XS*
=====
    
```

END OF THIS PROFILE

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK 100-YR PROFILE J-N
PROFILE NUMBER 11, UPSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

K	; KU/KD < 0.7 OR > 1.4	:	ALERTED USER
L	; KU/KD < 0.7 OR > 1.4	:	ALERTED USER
N-APP	; KU/KD < 0.7 OR > 1.4	:	ALERTED USER

WATER-SURFACE PROFILE FOR: BOONE CREEK 100-YR PROFILE J-N
 PAGE 1 OF 1. PROFILE NUMBER 11, UPSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID*	
J-TW	AT	2887	0	1500.	849.	79168.	1.00	-21.	308.
3136.20		0.05			3136.25	1.77	0.19		*IS*
K	AT	3086	199	1500.	444.	24288.	1.00	30.	333.
3136.35		0.18	0.23	0.06	3136.53	3.38	0.49	-0.019	*XS*
L	AT	3216	130	1500.	278.	13907.	1.00	-50.	166.
3137.08		0.45	0.87	0.14	3137.53	5.39	0.84	0.000	*XS*
M	AT	3276	60	1500.	246.	15556.	1.00	0.	220.
3137.63		0.58	0.62	0.06	3138.20	6.10	0.77	-0.013	*XS*
N-APP	AT	3638	362	1500.	344.	22259.	1.00	40.	267.
3140.27		0.30	2.35	0.0	3140.56	4.36	0.54	0.005	*XS*

END OF THIS PROFILE

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK 100-YR PROFILE
PROFILE NUMBER 12, UPSTREAM COMPUTATIONS

J-N

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

K ; KU/KD < 0.7 OR > 1.4 ;

ALERTED USER

L ; KU/KD < 0.7 OR > 1.4 ;

ALERTED USER

N-APP; KU/KD < 0.7 OR > 1.4 ;

ALERTED USER

WATER-SURFACE PROFILE FOR: BOONE CREEK 100-YR PROFILE J-N
 PAGE 1 OF 1, PROFILE NUMBER 12, UPSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID	
J-TW	AT	2887	0	1700.	849.	79168.	1.00	-21.	308.
3136.20		0.06			3136.26	2.00	0.22		*IS*
K	AT	3086	199	1700.	459.	25619.	1.00	29.	333.
3136.40		0.21	0.28	0.08	3136.61	3.70	0.53	-0.010	*XS*
L	AT	3216	130	1700.	304.	16050.	1.00	-50.	167.
3137.20		0.49	0.91	0.14	3137.68	5.60	0.83	0.020	*XS*
M	AT	3276	60	1700.	261.	17104.	1.00	0.	220.
3137.74		0.66	0.63	0.09	3138.40	6.51	0.80	-0.002	*XS*
N-APP	AT	3638	362	1700.	382.	25657.	1.00	35.	270.
3140.48		0.31	2.38	0.0	3140.79	4.45	0.54	0.003	*XS*

END OF THIS PROFILE

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK 100-YR PROFILE
PROFILE NUMBER 13, UPSTREAM COMPUTATIONS

J-N

SECID; ERROR (WARNING) MESSAGE; INTERMEDIATE RESULTS (IF ANY); ACTION TAKEN

K ; KU/KD < 0.7 OR > 1.4 ;

ALERTED USER

L ; KU/KD < 0.7 OR > 1.4 ;

ALERTED USER

N-APP; KU/KD < 0.7 OR > 1.4 ;

ALERTED USER

WATER-SURFACE PROFILE FOR: BOONE CREEK 100-YR PROFILE J-N
 PAGE 1 OF 1, PROFILE NUMBER 13. UPSTREAM COMPUTATIONS

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=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ I.FW / REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
J-TW AT 2887 / 0 / 1800. / 849. / 79168. / 1.00 / -21. / 308.
3136.20 / 0.07 / / 3136.27 / 2.12 / 0.23 / *IS*
-----
K AT 3086 / 199 / 1800. / 468. / 26430. / 1.00 / 29. / 334.
3136.43 / 0.23 / 0.31 / 0.08 / 3136.66 / 3.84 / 0.55 / -0.000 *XS*
-----
L AT 3216 / 130 / 1800. / 310. / 16616. / 1.00 / -50. / 167.
3137.23 / 0.52 / 0.96 / 0.15 / 3137.75 / 5.80 / 0.86 / -0.016 *XS*
-----
M AT 3276 / 60 / 1800. / 267. / 17777. / 1.00 / 0. / 221.
3137.73 / 0.71 / 0.65 / 0.09 / 3138.50 / 6.73 / 0.82 / -0.000 *XS*
-----
N-APP AT 3638 / 362 / 1800. / 400. / 27298. / 1.00 / 32. / 271.
3140.58 / 0.32 / 2.42 / 0.0 / 3140.90 / 4.50 / 0.54 / -0.019 *XS*
=====
    
```

END OF THIS PROFILE

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK 100-YR PROFILE J-N
PROFILE NUMBER 14, UPSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

K	: KU/KD < 0.7 OR > 1.4	:	ALERTED USER
L	: KU/KD < 0.7 OR > 1.4	:	ALERTED USER
N-APP	: KU/KD < 0.7 OR > 1.4	:	ALERTED USER

WATER-SURFACE PROFILE FOR: BOONE CREEK 100-YR PROFILE J-N
 PAGE 1 OF 1, PROFILE NUMBER 14, UPSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HF	EG	V	FN	ACC	ID	
J-TW	AT	2887	0	1900.	849.	79168.	1.00	-21.	308.
3136.20		0.08			3136.28	2.24	0.25		*IS*
K	AT	3086	199	1900.	474.	26980.	1.00	29.	334.
3136.45		0.25	0.34	0.09	3136.70	4.00	0.57	-0.002	*XS*
L	AT	3216	130	1900.	325.	17972.	1.00	-50.	167.
3137.30		0.53	0.97	0.14	3137.83	5.84	0.84	0.018	*XS*
M	AT	3276	60	1900.	274.	18466.	1.00	0.	221.
3137.84		0.75	0.65	0.11	3138.59	6.94	0.84	0.004	*XS*
N-APP	AT	3638	362	1900.	421.	29253.	1.00	29.	272.
3140.70		0.32	2.42	0.0	3141.01	4.51	0.53	0.000	*XS*

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 42 DATE= 8/12/77

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK 100-YR PROFILE J-N
PROFILE NUMBER 15. UPSTREAM COMPUTATIONS

SECID: ERROR(WARNING) MESSAGE: INTERMEDIATE RESULTS(IF ANY): ACTION TAKEN

K 1 KU/KD < 0.7 OR > 1.4 ;

ALERTED USER

N-APP: KU/KD < 0.7 OR > 1.4 ;

ALERTED USEP

WATER-SURFACE PROFILE FOR: BOONE CREEK 100-YR PROFILE J-N
 PAGE 1 OF 1. PROFILE NUMBER 15, UPSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LFW	REW	WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID
J-TW	AT	2887	0	2200.	849.	79168.	1.00	-21.	308.	3136.20	0.10			3136.30	2.59	0.28		*IS*
K	AT	3086	199	2200.	496.	28965.	1.00	28.	334.	3136.52	0.31	0.42	0.10	3136.83	4.43	0.61	-0.000	*XS*
L	AT	3216	130	2200.	352.	20413.	1.00	-50.	168.	3137.42	0.61	1.06	0.15	3138.02	6.26	0.87	-0.017	*XS*
M	AT	3276	60	2200.	289.	20169.	1.00	0.	221.	3137.96	0.90	0.71	0.15	3138.86	7.61	0.89	-0.012	*XS*
N-APP	AT	3638	362	2200.	483.	35151.	1.00	21.	277.	3141.01	0.32	2.47	0.0	3141.34	4.56	0.52	-0.000	*XS*

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 44. DATE= 8/12/77

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK 100-YR PROFILE J-N
PROFILE NUMBER 16, UPSTREAM COMPUTATIONS

SECTID: ERROR(WARNING) MESSAGE: INTERMEDIATE RESULTS(IF ANY): ACTION TAKEN

K	: KU/KD < 0.7 OR > 1.4	:	ALERTED USER
L	: KU/KD < 0.7 OR > 1.4	:	ALERTED USER

WATER-SURFACE PROFILE FOR: BOONE CREEK 100-YR PROFILE J-N
 PAGE 1 OF 1, PROFILE NUMBER 16, UPSTREAM COMPUTATIONS

SECTION	AT	WS ELEV	HV	HF	HE	EG	V	FN	ACC	REW	ID
J-TW	AT	2887	0	1500	1119	121145	1.00	-38	308		
		3137.00	0.03		3137.03	1.34	0.13				*IS*
K	AT	3086	199	1500	662	45666	1.00	20	338		
		3137.05	0.08	0.08	0.03	3137.13	2.27	0.28	-0.006		*XS*
L	AT	3216	130	1500	326	18035	1.00	-50	167		
		3137.30	0.33	0.36	0.12	3137.63	4.60	0.66	0.018		*XS*
M	AT	3276	60	1500	249	15823	1.00	0	220		
		3137.65	0.57	0.47	0.12	3138.21	6.03	0.76	-0.007		*XS*
N-APP	AT	3638	362	1500	341	22018	1.00	41	267		
		3140.25	0.30	2.34	0.0	3140.55	4.40	0.55	0.000		*XS*

END OF THIS PROFILE

PAGE 1 OF PROFILE NOTES FOR: ROONE CREEK 100-YR PROFILE J-N
PROFILE NUMBER 17, UPSTREAM COMPUTATIONS

SECID: ERROR(WARNING) MESSAGE: INTERMEDIATE RESULTS(IF ANY): ACTION TAKEN

K	: KU/KD < 0.7 OR > 1.4	ALERTED USER
L	: KU/KD < 0.7 OR > 1.4	ALERTED USER
N-APP	: KU/KD < 0.7 OR > 1.4	ALERTED USER

WATER-SURFACE PROFILE FOR: BOONE CREEK 100-YR PROFILE J-N
 PAGE 1 OF 1, PROFILE NUMBER 17, UPSTREAM COMPUTATIONS

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=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
J-TW AT 2887 / 0 / 1700. / 1119. / 121145. / 1.00 / -38. / 309.
3137.00 / 0.04 / / 3137.04 / 1.52 / 0.15 / *IS*
-----
K AT 3086 / 199 / 1700. / 668. / 46385. / 1.00 / 20. / 339.
3137.07 / 0.10 / 0.10 / 0.03 / 3137.17 / 2.54 / 0.31 / -0.000 *XS*
-----
L AT 3216 / 130 / 1700. / 337. / 19034. / 1.00 / -50. / 167.
3137.35 / 0.40 / 0.43 / 0.15 / 3137.74 / 5.05 / 0.71 / -0.000 *XS*
-----
M AT 3276 / 60 / 1700. / 261. / 17150. / 1.00 / 0. / 220.
3137.75 / 0.66 / 0.53 / 0.13 / 3138.40 / 6.50 / 0.80 / -0.002 *XS*
-----
N-APP AT 3638 / 362 / 1700. / 382. / 25712. / 1.00 / 35. / 270.
3140.49 / 0.31 / 2.37 / 0.0 / 3140.79 / 4.44 / 0.54 / 0.016 *XS*
=====
    
```

END OF THIS PROFILE

PAGE 1 OF PROFILE NOTES FOR: ROONE CREEK 100-YR PROFILE J-N
PROFILE NUMBER 18, UPSTREAM COMPUTATIONS

SECID: ERPOP(WARNING) MESSAGE: INTERMEDIATE RESULTS(IF ANY): ACTION TAKEN

K : KU/KD < 0.7 OR > 1.4 :

ALERTED USER

L : KU/KD < 0.7 OR > 1.4 :

ALERTED USER

N-APP: KU/KD < 0.7 OR > 1.4 :

ALERTED USER

WATER-SURFACE PROFILE FOR: BOONE CREEK 100-YR PROFILE J-N
 PAGE 1 OF 1; PROFILE NUMBER 18. UPSTREAM COMPUTATIONS

```

=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
J-TW AT 2887 / 0 / 1800. / 1119. / 121145. / 1.00 / -38. / 308.
3137.00 / 0.04 / / / 3137.04 / 1.61 / 0.16/ *IS*
-----
K AT 3086 / 199 / 1800. / 671. / 46665. / 1.00 / 19. / 339.
3137.08 / 0.11 / 0.11 / 0.04 / 3137.19 / 2.68 / 0.33 / -0.000 *XS*
-----
L AT 3216 / 130 / 1800. / 343. / 19614. / 1.00 / -50. / 168.
3137.38 / 0.43 / 0.46 / 0.16 / 3137.80 / 5.25 / 0.74 / -0.004 *XS*
-----
M AT 3276 / 60 / 1800. / 268. / 17817. / 1.00 / 0. / 221.
3137.80 / 0.70 / 0.56 / 0.14 / 3138.50 / 6.73 / 0.82 / -0.000 *XS*
-----
N-APP AT 3638 / 362 / 1800. / 400. / 27347. / 1.00 / 32. / 2.1.
3140.58 / 0.31 / 2.41 / 0.0 / 3140.90 / 4.49 / 0.54 / -0.008 *XS*
=====
    
```

END OF THIS PROFILE

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK 100-YR PROFILE
PROFILE NUMBER 19, UPSTREAM COMPUTATIONS

J-N

SECID: ERROR (WARNING) MESSAGE: INTERMEDIATE RESULTS (IF ANY): ACTION TAKEN

K : KU/KD < 0.7 OR > 1.4

ALERTED USER

L : KU/KD < 0.7 OR > 1.4

ALERTED USER

N-APP: KU/KD < 0.7 OR > 1.4

ALERTED USER

WATER-SURFACE PROFILE FOR: ROONE CREEK 100-YR PROFILE J-N
 PAGE 1 OF 1, PROFILE NUMBER 19, UPSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LFW	REW
WS FLEV	HV	HF	HE	FG	V	FN	ACC	ID*	
J-TW	AT	2897	0	1900.	1119.	121145.	1.00	-38.	308.
3137.00		0.04			3137.04	1.70	0.17		#15*
K	AT	3086	199	1900.	678.	47399.	1.00	19.	339.
3137.10		0.12	0.13	0.04	3137.22	2.80	0.34	0.013	*XS*
L	AT	3216	130	1900.	352.	20464.	1.00	-50.	168.
3137.42		0.45	0.48	0.17	3137.87	5.40	0.75	0.000	*XS*
M	AT	3276	60	1900.	274.	18469.	1.00	0.	221.
3137.84		0.75	0.57	0.15	3138.59	6.94	0.84	-0.000	*XS*
N-APP	AT	3638	362	1900.	421.	29249.	1.00	29.	272.
3140.70		0.32	2.42	0.0	3141.01	4.51	0.53	0.000	*XS*

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 52. DATE= 8/12/77

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK 100-YR PROFILE J-N
PROFILE NUMBER 20. UPSTREAM COMPUTATIONS

SECID: ERROR(WARNING) MESSAGE: INTERMEDIATE RESULTS(IF ANY): ACTION TAKEN

K	: KU/KD < 0.7 OR > 1.4	: ALERTED USER
L	: KU/KD < 0.7 OR > 1.4	: ALERTED USER
N-APP	: KU/KD < 0.7 OR > 1.4	: ALERTED USER

WATER SURFACE PROFILE FOR BOONE CREEK 100-YR PROFILE J-N
 PAGE 1 OF 1 PROFILE NUMBER 201 UPSTREAM COMPUTATIONS

SECT	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID	
J-TK	AT	2887	0	2200	1119	121145	1.00	38	308
3137.00		0.06			3137.06	1.97	0.19		*IS*
K	AT	3086	199	2200	678	47390	1.00	19	339
3137.10		0.16	0.17	0.05	3137.26	3.25	0.39	-0.017	*XS*
L	AT	3216	130	2200	369	22139	1.00	50	168
3137.50		0.55	0.60	0.19	3138.05	5.96	0.81	-0.008	*XS*
M	AT	3216	60	2200	290	20305	1.00	0	221
3137.97		0.89	0.65	0.17	3138.87	7.58	0.89	-0.000	*XS*
N-APP	AT	3638	362	2200	483	35108	1.00	21	277
3141.01		0.32	2.46	0.0	3141.33	4.56	0.52	0.010	*XS*

END OF THIS PROFILE

\$13.29.05 JOB 9086 -- AG40RUBS -- BEGINNING EXEC - INIT 6 - CLASS 6
\$13.32.03 JOB 9086 ENDED 000445L

---- H A S P - I I J O B S T A T I S T I C S ----

43 CARDS READ

466 SYSOUT PRINT RECORDS

0 SYSOUT PUNCH RECORDS

2.96MINUTES ELAPSED TIME

---- H A S P - I I J O B S T A T I S T I C S ----

43 CARDS READ

466 SYSOUT PRINT RECORDS

0 SYSOUT PUNCH RECORDS

2.96MINUTES ELAPSED TIME

```

//AG40BUBS JOB (453700600,E431,55,10), 'STYRON',
// CLASS=B
//JOBLIB DD DSN=SYS1.LOADLIB,DISP=SHR
// EXEC PGM=J635,REGION=160K,TIME=2
//FT11F001 DD SPACE=(2852,(99),,CONTIG),DCB=(DSORG=DA),UNIT=SYSDK
//FT12F001 DD SPACE=(2844,(99),,CONTIG),DCB=(DSORG=DA),UNIT=SYSDK
//FT13F001 DD SPACE=(100,(150),,CONTIG),DCB=(DSORG=DA),UNIT=SYSDK
//FT18F001 DD SPACE=(252,(99),,CONTIG),DCB=(DSORG=DA),UNIT=SYSOK
//FT06F001 DD SYSOUT=A
//FT05F001 DD *
//

```

```

IEF2361 ALLOC. FOR AG40BUBS
IEF2371 470 ALLOCATED TO JOBLIB
IEF2371 481 ALLOCATED TO FT11F001
IEF2371 481 ALLOCATED TO FT12F001
IEF2371 481 ALLOCATED TO FT13F001
IEF2371 491 ALLOCATED TO FT18F001
IEF2371 449 ALLOCATED TO FT06F001
IEF2371 500 ALLOCATED TO FT05F001

```

```

IEF1421 - STEP WAS EXECUTED - COND CODE 0000
IEF2851 SYS1.LOADLIB PASSED
IEF2851 VOL SER NOS= SYS314.
IEF2851 SYS77252.T080438.RV000.AG40BUBS.R0008699 DELETED
IEF2851 VOL SER NOS= SYS313.
IEF2851 SYS77252.T080438.RV000.AG40BUBS.R0008700 DELETED
IEF2851 VOL SER NOS= SYS313.
IEF2851 SYS77252.T080438.RV000.AG40BUBS.R0008701 DELETED
IEF2851 VOL SER NOS= SYS313.
IEF2851 SYS77252.T080438.RV000.AG40BUBS.R0008702 DELETED
IEF2851 VOL SER NOS= SYS312.

```

```

IEF3731 STEP / / START 77252.1329
IEF3741 STEP / / STOP 77252.1331 CPU 0MIN 11.33SEC MAIN 148K LCB OK
CCD0061 STEP / / I/O IN DD SEQ: 590:0 581:132 591:0
CCD0061 STEP / / I/O IN DD SEQ: 591:199 491:0 443:20
CCD0061 STEP / / I/O IN DD SEQ: 501:2
CCD0011 STEP / / MEMORY RESERVED 160K; ACCESSSES: DISK 353/ TAPE
IEF2851 SYS1.LOADLIB KEPT

```

```

IEF2851 VOL SER NOS= SYS314.
IEF3751 JOB /AG40BUBS/ START 77252.1329
IEF3761 JOB /AG40BUBS/ STOP 77252.1331 CPU 0MIN 11.33SEC
CCD0074 JOB /AG40BUBS/ BASIC CHRG: FIXED CPU DSK-15 TPE-10 KBYTE-HR TOTAL
1.50 1.39 1.39 .18 4.37
CCD0021 JOB /AG40BUBS/ TOTAL CHARGE RECORDED = 44.37
CCD0031 JOB /AG40BUBS/ US GEOLOGICAL SURVEY REG US REG AIR TIME = 13.31.59 DATE = 09/09/77

```


USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 2, DATE= 9/ 9/77

PAGE 1 OF EDITING NOTES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-5

SECID	ERROR SEVERITY	FIRST VARIABLE NO.	ERROR MESSAGE	SECOND VARIABLE NO.	VALUE ASSUMED
-------	----------------	--------------------	---------------	---------------------	---------------

P	WARNING	H SUBO	IS LESS THAN	GMIN	> GMIN
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USGS STEP-BACKWATER PROGRAM - VERSION 7.7.180 *** PAGE COUNT= 3, DATE= 9/19/77

INPUT SUMMARY FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-S

4 CROSS SECTIONS SPECIFIED (OR ASSUMED)

FOUND 4 TYPE 3 CARDS

KEPT 4 CROSS SECTIONS FOR EDITING

4 " " VALID FOR PROPERTY COMPUTATIONS

4 " " " " PROFILE " "

CROSS-SECTION PROPERTIES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-S
 SECID=P AT DISTANCE= 4334 PART 1 OF 1

NS	A	K	ALPHA	B	P	LEW	REW	QC
3145.5	20	4302	1.00	90	90	93	193	52
3146.0	75	2353	1.00	118	118	87	205	339
3146.5	136	6055	1.00	126	127	87	213	800
3147.0	202	10862	1.00	141	142	50	271	1374
3147.5	278	16005	1.00	174	177	6	249	1995
3148.0	374	23480	1.00	204	208	5	258	2868
3148.5	488	32701	1.00	241	247	4	275	3933
3149.0	610	46207	1.00	250	257	3	283	5410
3149.5	738	61570	1.00	259	267	1	291	7060
3150.0	870	79358	1.00	268	277	0	298	8881
3150.5	1005	99569	1.00	273	283	0	302	10934
3151.0	1143	121026	1.00	277	288	-2	305	13158
3151.5	1283	145894	1.00	281	294	-3	307	15524
3152.0	1424	171718	1.00	286	297	-5	310	18042
3152.5	1564	199262	1.00	290	304	-6	312	20695
3153.0	1714	228490	1.00	294	309	-4	315	23483
3153.5	1862	259375	1.00	298	314	-9	317	26404
3154.0	2012	291893	1.00	302	320	-11	320	29455
3154.5	2164	326023	1.00	306	325	-12	322	32634
3155.0	2318	361760	1.00	310	330	-14	325	35941

CROSS-SECTION PROPERTIES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-S
 SECID=Q AT DISTANCE= 4540 PART 1 OF 2

NS	A	K	ALPHA	B	P	LEW	REW	QC
3150.0	78	1539	1.00	249	250	53	302	249
3150.5	212	7550	1.00	277	277	34	311	1052
3151.0	353	17330	1.00	284	284	29	313	2230
3151.5	496	30171	1.00	289	290	25	314	3682
3152.0	642	45741	1.00	295	296	20	315	5367
3152.5	791	63895	1.00	301	302	15	316	7267
3153.0	943	84509	1.00	307	313	10	317	9367
3153.5	1098	106580	1.00	318	319	6	323	11582
3154.0	1260	131584	1.00	326	328	1	327	14045
3154.5	1424	159813	1.00	330	333	-2	327	16767
3155.0	1590	190293	1.00	335	337	-7	327	19662
3155.5	1759	222951	1.00	339	342	-11	327	22729
3156.0	1929	257739	1.00	343	347	-15	327	25944
3156.5	2102	294619	1.00	347	352	-19	327	29322
3157.0	2276	333557	1.00	352	356	-24	327	32854
3157.5	2453	374523	1.00	356	361	-28	327	36537
3158.0	2632	417493	1.00	360	366	-32	327	40367
3158.5	2813	462448	1.00	364	371	-36	327	44344

CROSS-SECTION PROPERTIES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-5
 SECID=0 AT DISTANCE= 4540 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
3159.0	2997	509363	1.00	369	376	-41	327	48464
3159.5	3182	558228	1.00	373	380	-45	327	52726
3160.0	3369	609043	1.00	377	385	-49	327	57131

CROSS-SECTION PROPERTIES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-5
 SECID=1 AT DISTANCE= 4607 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3153.0	1	4	1.00	13	13	94	107	1
3153.5	58	974	1.00	232	233	45	277	164
3154.0	175	6070	1.00	237	238	40	277	854
3154.5	292	14055	1.00	253	255	35	289	1830
3155.0	428	24731	1.00	269	271	31	300	3062
3155.5	572	36748	1.00	308	309	26	333	4429
3156.0	736	51665	1.00	346	347	21	367	6088
3156.5	917	70040	1.00	380	382	20	400	8089

CROSS-SECTION PROPERTIES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-5
 SECID=5 AT DISTANCE= 4827 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
3150.0	127	8039	1.00	25	32	17	238	1613
3150.5	149	9145	1.01	27	35	16	239	1801
3151.0	154	10296	1.01	29	38	15	239	1992
3151.5	169	11558	1.01	31	41	14	240	2216
3152.0	187	13013	1.03	41	51	13	245	2229
3152.5	219	14815	1.06	54	64	12	253	2284
3153.0	259	17196	1.24	146	157	11	262	1752
3153.5	362	21858	1.40	248	260	10	270	2069
3154.0	494	30906	1.28	278	291	-7	270	3299
3154.5	643	43274	1.17	320	333	-49	270	4783
3155.0	807	59007	1.11	337	350	-66	270	6743
3155.5	980	77825	1.06	353	367	-82	270	8924
3156.0	1161	99657	1.06	370	385	-99	270	11302
3156.5	1347	125075	1.05	374	389	-103	270	14150
3157.0	1534	153398	1.04	377	393	-106	270	17189
3157.5	1724	184226	1.04	381	397	-110	270	20410
3158.0	1915	217726	1.04	384	401	-113	270	23804
3158.5	2108	253724	1.04	388	405	-117	270	27368
3159.0	2303	292151	1.04	391	409	-120	270	31098
3159.5	2499	332950	1.04	395	413	-124	270	34990

CROSS-SECTION PROPERTIES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-S
 SECTIONS AT DISTANCE= 54827 PART 2 OF 2

WS	A	RK	ALPHA	B	P	LEW	REW	GC
3160.0	2698	376069	1.04	499	417	-128	270	39041
3160.5	2858	421466	1.04	402	421	-131	270	43249
3161.0	3100	469104	1.04	406	426	-135	270	47611
3161.5	3304	518951	1.04	409	430	-138	270	52123
3162.0	3509	570976	1.04	413	434	-142	270	56786
3162.5	3717	625156	1.05	416	438	-145	270	61595
3163.0	3926	681464	1.05	420	442	-149	270	66550

PAGE 11 OF PROFILE NOTES FOR: BOONER CREEK OVER-LAND FLOOD PROFILES CUL P-S
PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECTION: ERROR (WARNING) MESSAGE; INTERMEDIATE RESULTS (IF ANY); ACTION TAKEN

0	WS TOO LOW		USED WSMIN = WSC
0	WS NOT FOUND BETWEEN		
		WS = 3150.39 E WS = 3160.00	
0	WS NOT FOUND		USED DEL = 0.25
			ASSUMED WS = WSC
0	WS TOO LOW		USED WSMIN = WSC
0	KU/KD < 0.7 OR > 1.4		ALERTED USER
5	KU/KD < 0.7 OR > 1.4		ALERTED USER
5	RIGHT BANK EXTENDED		ALERTED USER

WATER-SURFACE PROFILE FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-S
 PAGE 1 OF 1, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

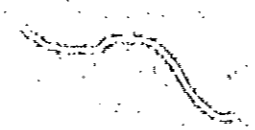
SECTION	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	H ₁	H ₂	H ₂	H ₂	EG	V	FR	ACC	*ID*
1	AT	4334	0	850	216	11969	1.00	49	222
3147.10	0.24			3147.34	3.93	0.56			*IS*
2	AT	4540	206	850	192	5883	1.00	35	309
3150.39	0.34	*****	*****	3150.73	4.63	1.01	*****		*XS*
3	AT	4607	267	850	223	8920	1.00	38	282
3154.20	0.23	3.68	0.0	3154.43	3.81	0.70	0.018		*XS*
4	AT	4927	20	1210	615	40863	1.18	-43	270
3154.41	0.07	-0.06	0.0	3154.48	1.97	0.16	-0.001		*XS*

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.100 *** PAGE COUNT= 9, DATE= 9/ 9/77

COMPUTED WSC VALUES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-S
PROFILE NUMBER 1. UPSTREAM COMPUTATIONS

SECID 0 R
WSC 3150.39 3154.00



PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-5
PROFILE NUMBER 2. UPSTREAM COMPUTATIONS

SECID: ERROR (WARNING) MESSAGE: INTERMEDIATE RESULTS (IF ANY): ACTION TAKEN

Q WS TOO LOW USED WSMIN = WSC

Q WS NOT FOUND BETWEEN WS = 3150.73 & WS = 3160.001 USED DEL = 0.25

Q WS NOT FOUND ASSUMED WS = WSC

Q WS TOO LOW USED WSMIN = WSC

S KU/KD < 0.7 OR > 1.3 ALERTED USER

S RIGHT BANK EXTENDED ALERTED USER

WATER SURFACE PROFILE FOR BOONE CREEK OVERLAND FLOOD PROFILES - CULP-H-S
PROFILE NUMBER 32 - UPSTREAM COMPUTATIONS

STATION	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
HS ELEV	HS ELEV	HS ELEV	HS ELEV	HS ELEV	HS ELEV	HS ELEV	HS ELEV	HS ELEV
AT	4354	0	1550	315	318536	1.00	5	257
3147.70	3147.70	3147.70	3148.05	3148.05	3148.05	3148.05	3148.05	3148.05
AS AT	4540	208	1550	327	316757	1.00	32	313
3150.73	3150.73	3150.73	3151.22	3151.22	3151.22	3151.22	3151.22	3151.22
AT	4407	267	1550	308	318275	1.00	35	289
3154.54	3154.54	3154.54	3154.93	3154.93	3154.93	3154.93	3154.93	3154.93
S	4827	208	1920	374	356317	1.12	63	270
3154.90	3154.90	3154.90	3155.01	3155.01	3155.01	3155.01	3155.01	3155.01

END OF THIS PROFILE

COMPUTED WSC VALUES FOR: BOONE CREEK - OVER-LAND FLOOD PROFILES - CUL. P-3
PROFILE NUMBER 2 - UPSTREAM COMPUTATIONS

WSECID = 101
WSC = 3150.73, 3154.04

PAGE 1 OF PROFILE NOTES FOR BOONE CREEK OVERLAND FLOOD PROFILES CUL P-5
PROFILE NUMBER 737 UPSTREAM COMPUTATIONS

SECTION: ERROR (WARNING) MESSAGE INTERMEDIATE RESULTS (IF ANY) ACTION TAKEN

Q	WS TOO LOW		USED WSMIN = WSC
Q	WS NOT FOUND BETWEEN		
		WS = 3150.00 & WS = 3160.00	USED DEL = 0.25
Q	WS NOT FOUND		ASSUMED WS = WSC
R	WS TOO LOW		USED WSMIN = WSC
S	KU/KIP < 0.7 OR > 1.4		ALERTED USER
S	RIGHT BANK EXTENDED		ALERTED USER

WATER SURFACE PROFILE FOR BUONE CREEK OVER-LAND FLOOD PROFILES CUL P-S
 PAGE 1 OF 3 L. PROFILE NUMBER 3. UPSTREAM COMPUTATIONS

SECTION	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS FLEV	HV	HF	HE	E9	V	FN	ACC	*ID*	
B	4334	0	1850	354	22066	1.00	3	258	
3147.90	0.49			3148.33	5.23	0.69		*IS*	
D	4540	206	1850	314	14353	1.00	31	313	
3150.86	0.54	*****	*****	3151.40	5.89	0.98	*****	*XS*	
H	4807	257	1850	338	17145	1.00	34	292	
3154.86	0.47	3.71	0.0	3155.12	5.47	0.84	0.007	*XS*	
S	4827	20	2220	835	61833	1.10	-69	270	
3155.08	0.12	0.08	0.0	3155.20	2.66	0.30	-0.001	*XS*	

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 15, DATE= 9/ 9/77

COMPUTED WSC VALUES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-S
PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

SECID 0 R
WSC 3150.86 3154.51

PAGE 1 OF PROFILE NOTES FOR BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-5
PROFILE NUMBER 4.7 UPSTREAM COMPUTATIONS

SECTION: ERROR (WARNING) MESSAGE: INTERMEDIATE RESULTS (IF ANY): ACTION TAKEN

Q	: WS TOO LOW		USED WSMIN = WSC
Q	: WS NOT FOUND BETWEEN	WS = 3151.19 & WS = 3160.00	USED DEL = 0.25
Q	: WS NOT FOUND		ASSUMED WS = WSC
R	: WS TOO LOW		USED WSMIN = WSC
S	: RU/KD < /0.7 OR > 1.4		ALERTED USER
S	: RIGHT BANK EXTENDED		ALERTED USER

WATER SURFACE PROFILE FOR BOONE CREEK OVER-LAND FLOOD PROFILES, CUL P-S
 PAGE 1 OF 1, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	MIU	
P	AT	4334	0	2725	476	31531	1.00	4	273
		3148.45	0.51		3148.96	5.73	0.72		*IS*
U	AT	4540	206	2725	405	21167	1.00	28	313
		3151.19	0.70		3151.89	5.72	0.99		*XS*
R	AT	4607	267	2725	424	24399	1.00	31	300
		3154.99	0.64		3155.63	6.42	0.90		*XS*
S	AT	4827	20	3090	999	80026	1.07	-85	270
		3155.95	0.16		3155.71	3.09	0.34		*XS*

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 16, DATE= 9/ 9/77

COMPUTED WSC VALUES FOR: BOONE CREEK - OVER-LAND FLOOD PROFILES CUL P-S
PROFILE NUMBER 4, UPSTREAM COMPUTATIONS

SECID 0 R
WSC 3151.19 3154.87

BOONE CREEK

CUL G-H

BASE ELEVATION = 22.30

Z = -0.20

APPROACH ELEVATION	AREA	CONVEYANCE	ALPHA	TOP WIDTH	QC
22.00	0.9	8.6	1.000	4.3	2.16
22.68	6.6	116.4	1.000	14.1	25.45
23.36	18.2	512.9	1.000	19.2	100.27
24.04	32.0	1209.5	1.000	21.4	221.71
24.72	47.3	2155.1	1.000	23.7	379.71
25.40	64.1	3364.0	1.000	25.6	575.93
26.08	82.1	4824.9	1.000	27.3	808.08
26.76	101.3	6523.1	1.000	29.0	1073.60
27.44	121.6	8460.4	1.000	30.7	1372.48
28.12	143.0	10742.3	1.001	32.4	1704.73
28.80	165.7	13348.8	1.004	34.1	2070.83
29.48	189.5	16226.6	1.008	35.9	2471.38
30.16	214.5	19382.5	1.012	37.6	2906.88
30.84	240.6	22822.8	1.016	39.3	3377.91
31.52	267.9	26554.1	1.019	41.0	3885.04
32.20	297.4	29944.1	1.048	59.7	3767.11
32.88	351.7	34565.3	1.174	109.6	3729.18
33.56	437.2	41251.4	1.192	112.4	4891.68
34.24	514.6	49418.9	1.156	115.3	6168.95
34.92	596.3	55907.9	1.081	125.0	7391.02
35.60	681.3	68247.6	1.056	125.0	9026.30
36.28	766.3	81650.4	1.037	125.0	10767.03
36.96	851.3	96037.8	1.024	125.0	12607.19
37.64	936.3	111343.6	1.015	125.0	14541.68
38.32	1021.3	127511.3	1.009	125.0	16566.07

BOONE CREEK

CUL. G-H

BASE ELEVATION = 22.30

Z = -0.20

BARREL DEPTH	AREA	CONVEYANCE	TOP WIDTH	WETTED PERIMETER
0.0	0.0	0.0	0.0	
0.336	1.59	34.8	7.10	7.14
0.672	4.49	155.5	9.99	10.11
1.008	8.23	372.2	12.18	12.40
1.344	12.63	693.1	13.89	14.24
1.680	17.44	1132.8	14.67	15.28
2.016	22.45	1667.7	15.09	16.07
2.352	27.56	2280.9	15.30	16.78
2.688	32.72	2715.3	15.37	19.83
3.024	37.86	3386.1	15.25	20.51
3.360	42.96	4088.5	15.09	21.20
3.696	48.00	4813.8	14.90	21.90
4.032	52.97	5554.4	14.69	22.61
4.368	57.86	6302.7	14.43	23.32
4.704	62.66	7051.4	14.14	24.06
5.040	67.36	7793.4	13.81	24.80
5.376	71.94	8521.5	13.44	25.57
5.712	76.39	9228.4	13.03	26.36
6.048	80.69	9906.6	12.56	27.18
6.384	84.82	10548.1	12.04	28.03
6.720	88.77	11144.4	11.46	28.92
7.056	92.51	11686.3	10.80	29.86
7.392	96.02	12162.9	10.05	30.86
7.728	99.26	12561.3	9.20	31.95
8.064	102.19	12864.7	8.21	33.15
8.400	104.75	13048.7	7.01	34.52

BOONE CREEK

CUL G-H

BASE ELEVATION = 22.30

Z = -0.20

Q	ELEV H1	ELEV HA	D2	D3	TYPE	C	C ADJUSTED
1300.0	TYPE.. 2	ENERGY EQUATIONS NOT BALANCED					
1300.0	34.98	30.97	8.40	8.40	4	0.86	0.86
2060.0	TYPE.. 2	ENERGY EQUATIONS NOT BALANCED					
2060.0	41.73	*****	*****	*****	5	0.55	0.55
2060.0	38.99	*****	*****	*****	5	0.86	0.86
2060.0	41.03	30.97	8.40	8.40	4	0.86	0.86
2380.0	46.34	*****	*****	*****	5	0.58	0.58
2380.0	42.06	*****	*****	*****	6	0.86	0.86
2380.0	44.40	30.97	8.40	8.40	4	0.86	0.86
3290.0	62.51	*****	*****	*****	5	0.62	0.62
3290.0	53.04	*****	*****	*****	6	0.86	0.86
3290.0	56.64	30.97	8.40	8.40	4	0.86	0.86

BOONE CREEK

CUL G-H

BASE ELEVATION = 22.30

Z = -0.20

APPROACH ELEVATION	AREA	CONVEYANCE	ALPHA	TOP WIDTH	QC
22.00	0.9	8.6	1.000	4.3	2.16
22.68	6.6	116.4	1.000	14.1	25.45
23.36	18.2	512.9	1.000	19.2	100.27
24.04	32.0	1209.5	1.000	21.4	221.71
24.72	47.3	2155.1	1.000	23.7	379.71
25.40	64.1	3364.0	1.000	25.6	575.93
26.08	82.1	4824.9	1.000	27.3	808.08
26.76	101.3	6523.1	1.000	29.0	1073.60
27.44	121.6	8460.4	1.000	30.7	1372.48
28.12	143.0	10742.3	1.001	32.4	1704.73
28.80	165.7	13348.8	1.004	34.1	2070.83
29.48	189.5	16226.6	1.008	35.9	2471.38
30.16	214.5	19382.5	1.012	37.6	2906.88
30.84	240.6	22822.8	1.016	39.3	3377.91
31.52	267.9	26554.1	1.019	41.0	3885.04
32.20	297.4	29944.1	1.048	59.7	3767.11
32.88	361.7	34565.3	1.174	109.6	3729.18
33.56	437.2	41251.4	1.192	112.4	4891.68
34.24	514.6	49418.9	1.156	115.3	6168.95
34.92	596.3	55907.9	1.081	125.0	7391.02
35.60	681.3	68247.6	1.056	125.0	9026.30
36.28	766.3	81650.4	1.037	125.0	10767.03
36.96	851.3	96037.8	1.024	125.0	12607.19
37.64	936.3	111343.6	1.015	125.0	14541.68
38.32	1021.3	127511.3	1.009	125.0	16566.07

BOONE CREEK

CUL G-H

BASE ELEVATION = 22.30

Z = -0.20

BARREL DEPTH	AREA	CONVEYANCE	TOP WIDTH	WETTED PERIMETER
0.0	0.0	0.0	0.0	
0.336	1.59	34.8	7.10	7.14
0.672	4.49	155.5	9.99	10.11
1.008	8.23	372.2	12.18	12.40
1.344	12.63	693.1	13.89	14.24
1.680	17.44	1132.8	14.67	15.28
2.016	22.45	1667.7	15.09	16.07
2.352	27.56	2280.9	15.30	16.78
2.688	32.72	2715.3	15.37	19.83
3.024	37.86	3386.1	15.25	20.51
3.360	42.96	4088.5	15.09	21.20
3.696	48.00	4813.8	14.90	21.90
4.032	52.97	5554.4	14.69	22.61
4.368	57.86	6302.7	14.43	23.32
4.704	62.66	7051.4	14.14	24.06
5.040	67.36	7793.4	13.81	24.80
5.376	71.94	8521.5	13.44	25.57
5.712	76.39	9228.4	13.03	26.36
6.048	80.69	9906.6	12.56	27.18
6.384	84.82	10548.1	12.04	28.03
6.720	88.77	11144.4	11.46	28.92
7.056	92.51	11686.3	10.80	29.86
7.392	96.02	12162.9	10.05	30.86
7.728	99.26	12561.3	9.20	31.95
8.064	102.19	12864.7	8.21	33.15
8.400	104.75	13048.7	7.01	34.52

BONE CREEK

CUL G-H

BASE ELEVATION = 22.30

Z = -0.20

Q	ELEV H1	ELEV H4	D2	D3	TYPE	C	C ADJUSTED
1300.0	TYPE.. 2	ENERGY EQUATIONS NOT BALANCED					
1300.0	34.98	30.97	8.40	8.40	4	0.86	0.86
2060.0	TYPE.. 2	ENERGY EQUATIONS NOT BALANCED					
2060.0	41.73	*****	*****	*****	5	0.55	0.55
2060.0	38.99	*****	*****	*****	6	0.86	0.86
2060.0	41.03	30.97	8.40	8.40	4	0.86	0.86
2380.0	46.34	*****	*****	*****	5	0.58	0.58
2380.0	42.06	*****	*****	*****	6	0.86	0.86
2380.0	44.40	30.97	8.40	8.40	4	0.86	0.86
3290.0	62.51	*****	*****	*****	5	0.62	0.62
3290.0	53.04	*****	*****	*****	6	0.86	0.86
3290.0	56.64	30.97	8.40	8.40	4	0.86	0.86

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE-COUNT= 2, DATE= 8/19/77

INPUT SUMMARY FOR: BOONE CREEK FLOOD PROFILES N-0

2 CROSS SECTIONS SPECIFIED (OR ASSUMED)

FOUND 2 TYPE 3 CARDS

KEPT 2 CROSS SECTIONS FOR EDITING

2 " " VALID FOR PROPERTY COMPUTATIONS

2 " " " " PROFILE "

CROSS-SECTION PROPERTIES FOR: ROONE CREEK
 SECID=N AT DISTANCE= 3638 FLOOD PROFILES PART 1 OF 1 N=0

WS	A	K	ALPHA	B	P	LEW	REW	QC
3133.0	18	739	1.00	11	14	127	138	132
3133.5	24	1079	1.00	13	16	125	138	190
3134.0	31	1496	1.00	14	18	124	138	260
3134.5	39	1997	1.00	16	20	122	138	343
3135.0	47	2643	1.00	16	21	122	138	452
3135.5	55	3344	1.00	16	22	122	138	572
3136.0	63	4092	1.00	17	23	121	138	701
3136.5	72	4885	1.00	17	24	121	138	839
3137.0	80	5718	1.00	17	25	121	138	986
3137.5	92	6691	1.06	28	37	121	149	924
3138.0	112	7877	1.22	70	81	90	214	734
3138.5	166	10177	1.56	127	140	79	261	867
3139.0	233	14052	1.50	139	154	69	262	1396
3139.5	305	19158	1.36	151	168	58	264	2107
3140.0	384	25446	1.26	164	183	47	266	2973
3140.5	469	32712	1.20	181	202	34	270	3923
3141.0	565	41003	1.16	201	224	21	277	4986
3141.5	670	50692	1.13	221	246	8	284	6220
3142.0	785	62133	1.11	238	265	-2	290	7692
3142.5	907	75310	1.08	252	281	-10	296	9404
3143.0	1036	89995	1.06	265	297	-18	301	11280
3143.5	1172	106227	1.05	279	313	-26	307	13320
3144.0	1315	124047	1.04	293	328	-33	313	15528
3144.5	1465	143496	1.03	306	344	-41	319	17906
3145.0	1622	164636	1.02	320	360	-49	325	20460

CROSS-SECTION PROPERTIES FOR: ROONE CREEK
 SECID=0 AT DISTANCE= 4285 FLOOD PROFILES PART 1 OF 2 N=0

WS	A	K	ALPHA	B	P	LEW	REW	QC
3140.0	14	329	1.00	14	15	105	119	77
3140.5	21	617	1.00	16	17	104	120	139
3141.0	30	999	1.00	19	20	102	121	217
3141.5	40	1480	1.00	21	22	101	122	314
3142.0	51	2068	1.00	23	25	100	123	430
3142.5	71	2896	1.14	59	61	99	158	412
3143.0	105	4377	1.20	76	78	96	172	635
3143.5	148	6622	1.20	98	100	88	186	940
3144.0	203	9733	1.18	121	123	79	200	1375
3144.5	266	14666	1.16	132	134	73	205	1993
3145.0	335	21087	1.17	143	145	67	211	2683
3145.5	410	29117	1.22	155	156	62	216	3428
3146.0	490	39042	1.29	166	168	56	222	4197

CROSS-SECTION PROPERTIES FOR: BOONE CREEK FLOOD PROFILES N=0
 SECID=0 AT DISTANCE= 4285 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
3146.5	576	48833	1.28	177	179	50	227	5197
3147.0	667	59426	1.26	189	191	7	233	6336
3147.5	776	68367	1.34	227	229	6	262	7047
3148.0	904	79770	1.38	272	274	5	276	7956
3148.5	1043	89661	1.33	283	286	4	287	9836
3149.0	1188	115279	1.29	296	298	2	298	11882
3149.5	1337	137558	1.24	299	303	1	300	14395
3150.0	1487	161942	1.20	301	305	0	300	17123
3150.5	1638	187975	1.17	304	308	-3	300	19985
3151.0	1791	215685	1.14	306	311	-5	300	22987
3151.5	1945	245032	1.12	308	314	-7	300	26122
3152.0	2099	275983	1.11	311	317	-10	300	29386
3152.5	2255	308507	1.10	313	320	-12	300	32776
3153.0	2413	342578	1.09	316	323	-15	300	36288
3153.5	2571	378172	1.08	318	326	-17	300	39920
3154.0	2731	415268	1.07	320	328	-19	300	43670
3154.5	2891	453848	1.07	323	331	-22	300	47535
3155.0	3053	493898	1.06	325	334	-24	300	51515

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 5. DATE= 8/19/77

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK FLOOD PROFILES N-0
PROFILE NUMBER 1. UPSTREAM COMPUTATIONS

SECID: ERROR(WARNING) MESSAGE: INTERMEDIATE RESULTS (IF ANY): ACTION TAKEN

0 1 KU/KD < 0.7 OR > 1.4

ALERTED USER

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 6, DATE= 8/19/77

WATER-SURFACE PROFILE FOR: BOONE CREEK FLOOD PROFILES N-0
PAGE 1 OF 1, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

```
=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
N AT 3638 / 0 / 1210. / 364. / 23835. / 1.28 / 50. / 266.
3139.88 / 0.22 / / 3140.10 / 3.32 / 0.29 / *15*
-----
0 AT 4285 / 647 / 1210. / 195. / 9254. / 1.18 / 80. / 199.
3143.93 / 0.71 / 4.29 / 0.24 / 3144.64 / 6.21 / 0.69 / 0.002 *XS*
=====
```

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 7. DATE= 8/19/77

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK FLOOD PROFILES N-0
PROFILE NUMBER 2, UPSTREAM COMPUTATIONS

SECID: ERROR (WARNING) MESSAGE: INTERMEDIATE RESULTS (IF ANY): ACTION TAKEN

0 : KU/KD < 0.7 OR > 1.4 : ALERTED USER

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= B,DATE= 8/19/77

WATER-SURFACE PROFILE FOR: BOONE CREEK FLOOD PROFILES N-0
PAGE 1 OF 1, PROFILE NUMBER 2, UPSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID*	
N	AT	3638	0	1920.	486.	34103.	1.19	32.	271.
		3140.59	0.29		3140.88	3.95	0.41		*IS*
0	AT	4285	647	1920.	285.	16265.	1.16	72.	207.
		3144.64	0.82	4.30	0.27	3145.46	6.75	0.71	0.012 *XS*

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 9 DATE= 8/19/77

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK FLOOD PROFILES N-0
PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

SECID: ERROR (WARNING) MESSAGE: INTERMEDIATE RESULTS (IF ANY): ACTION TAKEN

0 : KUZKD < 0.7 OR > 1.4 : ALERTED USER

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 10 DATE= 8/19/77

WATER-SURFACE PROFILE FOR: BOONE CREEK FLOOD PROFILES N-0
PAGE 1 OF 1, PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

```
=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC *IO*
=====
N AT 3638 / 0 / 2220. / 545. / 39235. / 1.17 / 24. / 175.
3140.90 / 0.30 / / 3141.20 / 4.08 / 0.42 / ) *IS*
=====
O AT 4285 / 647 / 2220. / 315. / 19131. / 1.17 / 69. / 209.
3144.86 / 0.90 / 4.25 / 0.30 / 3145.75 / 7.04 / 0.73 / 0.010 *XS*
=====
```

END OF THIS PROFILE

WATER-SURFACE PROFILE FOR: BOONE CREEK FLOOD PROFILES N-0
PAGE 1 OF 1, PROFILE NUMBER: 3, UPSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID*	
N	AT	3638	0	2220	545	39235	1.17	24	275
		3140.90	0.30		3141.20	4.08	0.42		*IS*
O	AT	4285	647	2220	315	19131	1.17	69	209
		3144.86	0.90	4.25	0.30	3145.76	7.04	0.73	0.010 *XS*

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 11 DATE= 8/19/77

PAGE 1 OF PROFILE NOTES FOR BOONE CREEK FLOOD PROFILES N-0
PROFILE NUMBER 4 UPSTREAM COMPUTATIONS

SECID: ERROR (WARNING) MESSAGE: INTERMEDIATE RESULTS (IF ANY): ACTION TAKEN

0: KU/KD < 0.7 OR > 1.4

ALERTED USER

USGS STEP-BACKWATER PROGRAM -- VERSION 77.180 *** PAGE COUNT= 12 DATE= 8/19/77

WATER-SURFACE PROFILE FOR: BOONE CREEK FLOOD PROFILES N-0
PAGE 1 OF 1, PROFILE NUMBER 4, UPSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID*	
N	AT	3638	0	3090.	717.	55234.	1.12	2.	286.
		3141.71	0.32		3142.03	4.31	0.42		*IS*
D	AT	4285	647	3090.	394.	27330.	1.21	63.	215.
		3145.40	1.15	4.09	0.41	3146.55	7.84	0.81	0.010 *XS*

END OF THIS PROFILE

*** INPUT CARD PRINTOUT ***

```

1 2 3 4 5 6 7 8
.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0
1 1 BOONE CREEK FLOOD PROFILES N-0 2 4 02 05 10
2 2 313988 314059 314090 314171
3 100 N 1 26 3 3133 3638 99 99
4 101 1210 0 1920 2220 3090
5 105 -50 1 31450 0 1 31418 50 1 31399 96 1 31377 96 1 31450
5 106 121 2 31450 121 2 31372 122 2 31345 127 2 31329 128 2 31315
5 107 131 2 31310 138 2 31315 138 3 31373 139 3 31372 149 3 31371
5 108 149 3 31450 179 3 31450 179 3 31377 226 3 31381 238 3 31385
5 109 239 3 31381 260 3 31381 261 3 31386 267 3 31403 285 3 31416
5 110 325 3 31450
6 115 1 2 040 040 1 2 045 045 1 2 040 040
3 200 0 0 24 3 3140 4285 99 99
5 205 -25 1 31550 0 1 31497 4 1 31484 7 1 31469 9 1 31475
5 206 12 1 31477 37 1 31476 50 1 31465 79 1 31440 98 2 31429
5 207 107 2 31391 108 2 31387 111 2 31386 114 2 31389 117 2 31391
5 208 124 3 31423 150 3 31422 200 3 31440 237 3 31474 238 3 31470
5 209 261 3 31471 262 3 31476 270 3 31477 300 3 31491
6 215 1 2 035 035 4 6 060 040 1 2 045 045
    
```

Top of channel

CROSS-SECTION PROPERTIES FOR: BOONE CREEK X-SECTION PROPERTIES
 SECID=J-TW AT DISTANCE= 2887 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
3132.9	6	58	1.00	67	67	145	212	10
3132.9	6	58	1.00	67	67	145	212	10
3133.0	13	198	1.00	84	84	140	224	31
3133.1	22	432	1.00	91	91	135	226	62
3133.2	33	667	1.00	131	131	47	228	96
3133.3	49	1008	1.00	187	187	43	230	144
3133.4	68	1701	1.00	192	192	40	232	231
3133.5	88	2539	1.00	197	197	37	234	332
3133.6	108	3511	1.00	203	203	33	236	446
3133.7	129	4483	1.00	220	220	30	250	560
3133.8	151	5743	1.00	226	226	26	253	701
3133.9	174	7142	1.00	232	232	23	255	856
3134.0	198	8673	1.00	238	238	20	258	1022
3134.1	222	10331	1.00	244	244	16	261	1199
3134.2	247	12129	1.00	250	250	13	263	1389
3134.3	272	14115	1.00	254	254	12	266	1594
3134.4	297	16235	1.00	258	258	10	268	1811
3134.5	323	18484	1.00	262	262	9	271	2038
3134.6	351	19980	1.00	286	286	8	304	2205
3134.7	380	22441	1.00	292	293	7	304	2454
3134.8	409	25042	1.00	299	299	5	304	2715
3134.9	439	28081	1.00	301	301	4	305	3012
3135.0	470	31261	1.00	302	303	3	305	3319
3135.1	500	34487	1.00	305	305	1	306	3629
3135.2	531	37856	1.00	308	308	0	308	3950
3135.3	561	41401	1.00	310	310	-1	308	4285
3135.4	593	45087	1.00	312	313	-3	308	4631
3135.5	624	48905	1.00	314	315	-5	308	4987
3135.6	655	52842	1.00	316	317	-7	308	5351
3135.7	687	56918	1.00	318	319	-9	308	5726
3135.8	719	61110	1.00	320	321	-11	308	6109
3135.9	751	65440	1.00	323	323	-14	308	6503
3136.0	784	69895	1.00	325	326	-16	308	6906
3136.1	816	74464	1.00	327	328	-18	308	7317
3136.2	849	79168	1.00	329	330	-20	308	7738
3136.3	882	83983	1.00	331	332	-22	308	8167
3136.4	915	88932	1.00	333	334	-24	308	8605
3136.5	949	94004	1.00	335	337	-26	308	9053
3136.6	982	99184	1.00	337	339	-28	308	9508
3136.7	1016	104497	1.00	339	341	-30	308	9973
3136.8	1050	109918	1.00	341	343	-32	308	10446
3136.9	1084	115471	1.00	343	345	-34	308	10928
3137.0	1119	121145	1.00	346	348	-37	308	11419
3137.1	1153	126923	1.00	348	350	-39	308	11917
3137.2	1188	132834	1.00	350	352	-41	308	12424

CROSS-SECTION PROPERTIES FOR: BOONE CREEK X-SECTION PROPERTIES
 SECID=J-TW AT DISTANCE= 2887 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	RFW	QC
3137.3	1223	138849	1.00	352	354	-43	308	12939
3137.4	1259	144997	1.00	354	356	-45	308	13464
3137.5	1294	151263	1.00	356	358	-47	308	13996
3137.6	1330	157531	1.00	358	361	-49	308	14536
3137.7	1366	164132	1.00	360	363	-51	308	15086
3137.8	1402	170734	1.00	362	365	-53	308	15642
3137.9	1438	177469	1.00	364	367	-55	308	16208
3138.0	1475	184322	1.00	366	369	-57	308	16782
3138.1	1511	191274	1.00	368	372	-59	308	17363
3138.2	1548	198360	1.00	370	374	-61	308	17953
3138.3	1585	205545	1.00	373	376	-64	308	18550
3138.4	1623	212865	1.00	375	378	-66	308	19157
3138.5	1660	220300	1.00	377	380	-68	308	19772
3138.6	1698	227834	1.00	379	382	-70	308	20393
3138.7	1736	235503	1.00	381	385	-72	308	21024
3138.8	1774	243269	1.00	383	387	-74	308	21661
3138.9	1813	251170	1.00	385	389	-76	308	22308
3139.0	1851	259188	1.00	387	391	-78	308	22964
3139.1	1890	267347	1.00	389	393	-80	308	23625
3139.2	1929	275646	1.00	391	395	-82	308	24296
3139.3	1968	284042	1.00	393	397	-84	308	24974
3139.4	2008	292577	1.00	395	400	-86	308	25661
3139.5	2048	301232	1.00	398	402	-89	308	26354
3139.6	2087	309984	1.00	400	404	-91	308	27058
3139.7	2128	318876	1.00	402	406	-93	308	27769
3139.8	2168	327865	1.00	404	408	-95	308	28487
3139.9	2208	336996	1.00	406	410	-97	308	29214

This card used to complete description of bed numbers above bridge. It is to compare with the plan through the channel.

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8
.....	5.....	0.....	5.....	0.....	5.....	0.....	5.....	0.....
1	1	ROONE CREEK OVER-LAND FLOOD PROFILES	J-N	5	20	02	05	10
2	2	313539 313539 313539 313539 313539	313598 313598 313598 313598	313598 313598	313598 313598	313598 313598	313598 313598	313598 313598
2	3	313620 313620 313620 313620 313620	313667 313667 313667 313667	313667 313667	313667 313667	313667 313667	313667 313667	313667 313667
3	100	J-TW 1 17 1 3132	2887 99 99					
4	101	860 960 1010	1060 1160 1560 1660	1710 1760 1860				
4	102	1860 1960 2010	2060 2160 2660 2760	2810 2860 2960				
5	110	-100 1 31400 0	1 31352 13 1 31342 50	1 31331 109 1 31323				
5	111	130 1 31332 150	1 31328 200 1 31328 224	1 31330 236 1 31336				
5	112	250 1 31337 279	1 31348 287 1 31345 304	1 31346 305 1 31350				
5	113	308 1 31352 308	1 31390					
6	115	1 2 030 030						
3	200	K 0 18 1 3133	3086 99 99					
5	210	-30 1 31400 0	1 31384 50 1 31350 100	1 31346 158 1 31350				
5	211	162 1 31352 162	1 31336 172 1 31323 191	1 31349 211 1 31354				
5	212	250 1 31350 297	1 31352 298 1 31348 322	1 31349 323 1 31353				
5	213	329 1 31358 344	1 31378 355 1 31400					
6	215	1 2 035 035						
3	300	L 0 15 1 3133	3216 99 99					
5	310	-50 1 31450 -50	1 31358 0 1 31358 0	1 31348 9 1 31330				
5	311	13 1 31332 20	1 31341 40 1 31360 75	1 31364 100 1 31362				
5	312	125 1 31363 138	1 31362 163 1 31362 168	1 31375 210 1 31450				
6	315	1 2 035 035						
3	400	M 1 13 1 3133	3276 99 99					
4	401	900 1000 1050	1100 1200 1600 1700	1750 1800 1900				
4	402	1900 2000 2050	2100 2200 2700 2800	2850 2900 3000				
5	405	0 1 31450 0	1 31362 53 1 31365 53	1 31329 60 1 31321				
5	406	85 1 31351 85	1 31450 178 1 31450 178	1 31369 194 1 31365				
5	407	218 1 31366 223	1 31389 243 1 31450					
6	410	1 2 035 035						
3	500	N-APP 0 21 1 3137	3638 99 99					
5	505	-25 1 31450 0	1 31419 50 1 31399 96	1 31377 96 1 31450				
5	506	121 1 31450 121	1 31372 138 1 31373 139	1 31372 149 1 31371				
5	507	149 1 31450 179	1 31450 179 1 31377 226	1 31381 238 1 31385				
5	508	239 1 31381 260	1 31381 261 1 31386 267	1 31403 285 1 31416				
5	509	315 1 31450						
6	510	1 2 035 035						

Sampling Elevations

1011	1012	1013	1014	1015
313598	313598	313598	313598	313598

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 2, DATE= 8/18/77

PAGE 1 OF EDITING NOTES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES J-N

SECID	ERROR SEVERITY	FIRST VARIABLE NO.	ERROR MESSAGE	SECOND VARIABLE NO.	VALUE ASSUMED
J-TW	WARNING	HSUBO	IS LESS THAN	GMIN	> GMIN
L	WARNING	HSUBO	IS LESS THAN	GMIN	> GMIN
N-APP	WARNING	HSUBO	IS LESS THAN	GMIN	> GMIN

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 3, DATE= 8/18/77

INPUT SUMMARY FOR: BOONE CREEK OVER-LAND FLOOD PROFILES J-N

5 CROSS SECTIONS SPECIFIED (OR ASSUMED)

FOUND 5 TYPE 3 CARDS

KEPT 5 CROSS SECTIONS FOR EDITING

5 " " VALID FOR PROPERTY COMPUTATIONS

5 " " " " PROFILE "

CROSS-SECTION PROPERTIES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES J-N
 SECID=J-TW AT DISTANCE= 2887 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3133.5	88	2539	1.00	197	197	37	234	332
3134.0	198	8673	1.00	238	238	20	258	1022
3134.5	323	18484	1.00	262	262	9	271	2038
3135.0	470	31261	1.00	302	303	3	305	3319
3135.5	624	48905	1.00	314	315	-5	306	4987
3136.0	784	69895	1.00	325	326	-16	308	6906
3136.5	949	94004	1.00	335	337	-26	308	9053
3137.0	1119	121145	1.00	346	348	-37	308	11419
3137.5	1294	151263	1.00	356	358	-47	308	13996
3138.0	1475	184322	1.00	366	369	-57	308	16782
3138.5	1660	220360	1.00	377	380	-68	308	19772
3139.0	1851	259188	1.00	387	391	-78	308	22964
3139.5	2048	300982	1.00	398	402	-89	308	26356
3140.0	2249	345696	1.00	408	413	-99	308	29950

CROSS-SECTION PROPERTIES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES J-N
 SECID=K AT DISTANCE= 3086 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3133.0	4	77	1.00	11	11	167	177	12
3133.5	11	325	1.00	18	18	163	181	47
3134.0	21	845	1.00	22	23	162	184	116
3134.5	33	1613	1.00	26	27	162	188	212
3135.0	73	1775	1.00	166	167	50	322	273
3135.5	195	6455	1.00	283	285	43	325	919
3136.0	340	15809	1.00	295	297	35	331	2067
3136.5	490	28412	1.00	306	308	29	334	3516
3137.0	646	43969	1.00	317	320	21	338	5228
3137.5	808	62332	1.00	329	331	13	342	7181
3138.0	975	83480	1.00	339	341	6	345	9370
3138.5	1147	107315	1.00	349	352	-1	348	11782
3139.0	1324	133433	1.00	361	364	-10	350	14381
3139.5	1508	162140	1.00	373	376	-20	353	17193
3140.0	1697	193441	1.00	385	388	-29	355	20216

CROSS-SECTION PROPERTIES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES J-N
 SECID=L AT DISTANCE= 3216 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	RFW	QC
3133.5	3	48	1.00	9	9	6	15	8
3134.0	9	248	1.00	15	15	4	19	37
3134.5	18	654	1.00	23	23	1	24	91
3135.0	31	1368	1.00	29	30	0	29	182
3135.5	47	2427	1.00	35	36	0	35	313
3136.0	76	2862	1.00	90	92	-49	40	397
3136.5	154	5222	1.00	214	216	-49	164	740
3137.0	261	12536	1.00	216	219	-49	166	1631
3137.5	370	22191	1.00	218	221	-49	168	2734
3138.0	480	33869	1.00	221	225	-49	171	4010
3138.5	591	47459	1.00	224	228	-49	174	5446
3139.0	703	62846	1.00	226	231	-49	176	7030
3139.5	817	79941	1.00	229	235	-49	179	8751
3140.0	932	98676	1.00	232	238	-49	182	10603
3140.5	1049	118993	1.00	235	241	-49	185	12579
3141.0	1167	140847	1.00	238	245	-49	188	14674
3141.5	1287	164197	1.00	240	248	-49	190	16885
3142.0	1408	189011	1.00	243	251	-49	193	19208
3142.5	1530	215260	1.00	246	255	-49	196	21641
3143.0	1654	242919	1.00	249	258	-49	199	24181
3143.5	1779	271968	1.00	252	261	-49	202	26825
3144.0	1905	302388	1.00	254	265	-49	204	29573
3144.5	2033	334163	1.00	257	268	-49	207	32423
3145.0	2162	367278	1.00	260	271	-49	210	35372

CROSS-SECTION PROPERTIES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES J-N
 SECID=M AT DISTANCE= 3276 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	RFW	QC
3133.0	7	177	1.00	15	15	53	68	27
3133.5	15	549	1.00	19	19	53	72	78
3134.0	26	1132	1.00	23	24	53	76	153
3134.5	38	1948	1.00	27	29	53	80	256
3135.0	53	3022	1.00	31	33	53	84	387
3135.5	69	4546	1.00	32	35	53	85	569
3136.0	85	6330	1.00	32	36	53	85	779
3136.5	108	5211	1.00	85	91	0	85	695
3137.0	167	8276	1.00	126	133	0	219	1089
3137.5	230	13949	1.00	127	135	0	220	1756
3138.0	294	20697	1.00	128	138	0	221	2524
3138.5	358	28416	1.00	129	141	0	222	3382
3139.0	423	37012	1.00	130	143	0	223	4321
3139.5	488	46373	1.00	132	147	0	225	5331

CROSS-SECTION PROPERTIES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES J-N
 SECID=M AT DISTANCE= 3276 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	RFW	QC
3140.0	555	56524	1.00	134	150	0	227	6414
3140.5	622	67430	1.00	135	153	0	228	7567
3141.0	690	79061	1.00	137	156	0	230	8789
3141.5	759	91391	1.00	139	160	0	232	10076
3142.0	829	104400	1.00	140	163	0	233	11428
3142.5	899	118069	1.00	142	166	0	235	12842
3143.0	970	132381	1.00	143	169	0	236	14317
3143.5	1043	147324	1.00	145	172	0	238	15852
3144.0	1116	162884	1.00	147	176	0	240	17446
3144.5	1189	179052	1.00	148	179	0	241	19099
3145.0	1264	195821	1.00	150	182	0	243	20809

CROSS-SECTION PROPERTIES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES J-N
 SECID=N-APP AT DISTANCE= 3638 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	RFW	QC
3137.5	8	147	1.00	28	29	121	149	24
3138.0	28	647	1.00	70	72	90	214	102
3138.5	82	2564	1.00	127	131	79	261	376
3139.0	148	6414	1.00	139	145	69	262	871
3139.5	221	11676	1.00	151	159	58	264	1515
3140.0	299	18273	1.00	164	174	47	266	2297
3140.5	385	25947	1.00	181	193	34	270	3190
3141.0	480	34898	1.00	201	215	21	277	4216
3141.5	586	45503	1.00	221	238	8	284	5412
3142.0	700	58624	1.00	235	254	-1	289	6856
3142.5	820	74238	1.00	243	264	-4	293	8536
3143.0	944	91464	1.00	252	275	-8	297	10365
3143.5	1072	110290	1.00	260	285	-12	302	12340
3144.0	1204	130714	1.00	268	296	-16	306	14461
3144.5	1340	152738	1.00	277	306	-20	311	16727
3145.0	1481	176381	1.00	285	316	-24	315	19140

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 7, DATE= 8/18/77

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES J-N
PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

K : KU/KD < 0.7 OR > 1.4

ALERTED USER

N-APP; WS TOO LOW

USED WSMIN = WSC

WATER-SURFACE PROFILE FOR BOONF CREEK OVER-LAND FLOOD PROFILES J-M
 PAGE 1 OF 1, PROFILE NUMBER 14 UPSTREAM COMPUTATIONS

SECTION	AT DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	RFW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	#ID*
J-TW	AT 2887	/ 0	/ 860.	/ 889.	/ 5717.	/ 1.00	/ 4.	/ 300.
	3135.39	/ 0.03	/	/ 3135.42	/ 1.46	/ 0.10		*IS*
K	AT 3086	/ 190	/ 860.	/ 243.	/ 9234.	/ 1.00	/ 40.	/ 327.
	3135.67	/ 0.19	/ 0.36	/ 0.08	/ 3135.86	/ 3.53	/ 0.60	/ 0.003 *XS*
L	AT 3216	/ 130	/ 860.	/ 216.	/ 9123.	/ 1.00	/ 50.	/ 165.
	3136.79	/ 0.25	/ 1.14	/ 0.03	/ 3137.03	/ 3.90	/ 0.70	/ 0.003 *XS*
M	AT 3276	/ 60	/ 900.	/ 195.	/ 10492.	/ 1.00	/ 0.	/ 219.
	3137.23	/ 0.33	/ 0.40	/ 0.04	/ 3137.66	/ 4.61	/ 0.65	/ 0.002 *XS*
N-APP	AT 3630	/ 368	/ 900.	/ 229.	/ 12290.	/ 1.00	/ 87.	/ 264.
	3139.55	/ 0.24	/ 2.23	/ 0.6	/ 3139.79	/ 3.24	/ 0.57	/ 0.004 *XS*

END OF THIS PROFILE

Handwritten notes:
 This profile is a...
 showing...
 at...
 ...

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 9, DATE= 8/18/77

COMPUTED WSC VALUES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES J-N
PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECID N-APP
WSC 3139.03

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 10, DATE= 8/18/77

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES J-N
PROFILE NUMBER 2, UPSTREAM COMPUTATIONS

SECID: ERROR(WARNING) MESSAGE: INTERMEDIATE RESULTS(IF ANY): ACTION TAKEN

K : KU/KD < 0.7 OR > 1.4

ALERTED USER

N-APP: WS TOO LOW

USED WSMIN = WSC

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 11 DATE= 8/18/77

WATER-SURFACE PROFILE FOR: BOONE CREEK OVER-LAND FLOOD PROFILES J-N
PAGE 1 OF 1, PROFILE NUMBER 2, UPSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	IEW	REW	WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID
J-TW	AT	2887	0	960.	589.	44713.	1.00	-4.	308.	3135.39	0.04			3135.43	1.63	0.21		*IS*
K	AT	3086	199	960.	257.	10083.	1.00	39.	328.	3135.72	0.22	0.41	0.09	3135.93	3.73	0.70	0.008	*XS*
L	AT	3216	130	960.	231.	10208.	1.00	-50.	166.	3136.86	0.27	1.16	0.03	3137.13	4.16	0.71	0.003	*XS*
M	AT	3276	60	1000.	205.	11533.	1.00	0.	220.	3137.30	0.37	0.49	0.05	3137.67	4.89	0.68	0.002	*XS*
N-APP	AT	3638	362	1000.	249.	13955.	1.00	55.	265.	3139.68	0.25	2.25	0.0	3139.93	4.02	0.56	0.015	*XS*

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 12 DATE= 8/18/77

COMPUTED WSC VALUES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES J-N
PROFILE NUMBER 2, UPSTREAM COMPUTATIONS

SECID N-APP
WSC 3139.11

USGS STEP-BACKWATER PROGRAM - VERSION 77.100 *** PAGE COUNT= 13. DATE= 8/18/77

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES J-N
PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

K ; KU/KD < 0.7 OR > 1.4 ;

ALERTED USER

N-APP; WS TOO LOW ;

USED WSMIN = WSC

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 14 DATE= 8/18/77

WATER-SURFACE PROFILE FOR: BOONE CREEK OVER-LAND FLOOD PROFILES J-N
PAGE 1 OF 1, PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW	WS ELEV	HV	HF	HE	EG	FN	ACC	ID*
J-TW	AT	2887	0	1010.	589.	44713.	1.00	-4.	308.	3135.39	0.05			3135.44	1.71	0.22	*IS*
K	AT	3086	199	1010.	264.	10514.	1.00	39.	328.	3135.74	0.23	0.43	0.09	3135.97	3.83	0.71	0.009 *XS*
L	AT	3216	130	1010.	238.	10740.	1.00	-50.	166.	3136.89	0.28	1.17	0.03	3137.17	4.24	0.71	0.003 *XS*
M	AT	3276	60	1050.	209.	11940.	1.00	0.	220.	3137.33	0.39	0.50	0.06	3137.73	5.02	0.69	0.002 *XS*
N-APP	AT	3638	362	1050.	259.	14788.	1.00	53.	265.	3139.75	0.26	2.26	0.0	3140.00	4.06	0.56	0.016 *XS*

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 15,DATE= 8/18/77

COMPUTED WSC VALUES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES J-N
PROFILE NUMBER 3: UPSTREAM COMPUTATIONS

SECID N-APP
WSC 3139.15

USGS STEP-BACKWATER PROGRAM - VERSION 77.190 *** PAGE COUNT= 16 DATE= 8/18/77

PAGE 1 OF PROFILE NOTES FOR: ROONE CREEK OVER-LAND FLOOD PROFILES J-N
PROFILE NUMBER 4. UPSTREAM COMPUTATIONS

SECID: ERROR(WARNING) MESSAGE: INTERMEDIATE RESULTS(IF ANY): ACTION TAKEN

K : KU/KD < 0.7 OR > 1.4

ALERTED USER

N-APP: TOL FAILURE BETWEEN

: WS = 3137.12 & WS = 3137.37:

USED HIGHER WS

WATER-SURFACE PROFILE FOR: BOONE CREEK OVER-LAND FLOOD PROFILES J-N
 PAGE 1 OF 1, PROFILE NUMBER 4, UPSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID	
J-TW	AT	2887	0	1060.	589.	44713.	1.00	-4.	308.
3135.39		0.05			3135.44	1.80	0.23		*IS*
K	AT	3086	199	1060.	270.	10944.	1.00	39.	329.
3135.76		0.24	0.46	0.09	3136.00	3.92	0.71	0.010	*XS*
L	AT	3216	130	1060.	245.	11270.	1.00	-50.	166.
3136.92		0.29	1.18	0.03	3137.22	4.32	0.72	0.003	*XS*
M	AT	3276	60	1100.	213.	12344.	1.00	0.	220.
3137.37		0.41	0.50	0.06	3137.78	5.16	0.70	0.002	*XS*
N-APP	AT	3638	362	1100.	268.	15603.	1.00	52.	265.
3139.81		0.26	2.27	0.0	3140.07	4.10	0.55	0.013	*XS*

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 18, DATE= 8/18/77

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES J-N
PROFILE NUMBER 5, UPSTREAM COMPUTATIONS

SECID: ERROR(WARNING) MESSAGE: INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

K : KU/KD < 0.7 OR > 1.4

ALERTED USER

N-APP: TOL FAILURE BETWEEN

: WS = 3137.18 & WS = 3137.43:

USED HIGHER WS

[USE THIS PROFILE FOR 10 SECT]

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 19. DATE= 8/18/77

WATER-SURFACE PROFILE FOR: BOONE CREEK OVER-LAND FLOOD PROFILES J-N
PAGE 1 OF 1, PROFILE NUMBER 5, UPSTREAM COMPUTATIONS

SECT	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID*	
J-TW	AT	2887	0	1160.	589.	44713.	1.00	-4.	308.
3135.39		0.06		3135.45	1.97	0.25		*IS*	
K	AT	3086	199	1160.	283.	11802.	1.00	38.	329.
3135.81		0.26	0.51	0.10	3136.07	4.09	0.73	0.010	*XS*
L	AT	3216	130	1160.	260.	12444.	1.00	-50.	166.
3136.99		0.31	1.19	0.02	3137.30	4.46	0.72	0.020	*XS*
M	AT	3276	60	1200.	222.	13137.	1.00	0.	220.
3137.43		0.46	0.51	0.07	3137.89	5.41	0.72	0.002	*XS*
N-APP	AT	3638	362	1200.	287.	17219.	1.00	49.	266.
3139.93		0.27	2.30	0.0	140.20	4.18	0.55	0.002	*XS*

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 20 DATE= 8/18/77

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES J-N
PROFILE NUMBER 6: UPSTREAM COMPUTATIONS

SECID: ERROR (WARNING) MESSAGE: INTERMEDIATE RESULTS (IF ANY): ACTION TAKEN

K 1 KU/KD < 0.7 OR > 1.4

ALERTED USER

N-APP: KU/KD < 0.7 OR > 1.4

ALERTED USER

WATER-SURFACE PROFILE FOR: BOONE CREEK OVER-LAND FLOOD PROFILES J-N
 PAGE 1 OF 1, PROFILE NUMBER 6, UPSTREAM COMPUTATIONS

SECID	AT	WS ELEV	DISCH	AREA	CONVEYANCE	ALPHA	LEW	REW	
		HV	HF	HE	EG	V	FN	ACC	
								ID*	
J-TM	AT	2887	0	1560.	777.	68994.	1.00	-16.	308.
		3135.98	0.06		3136.04	2.01	0.23		*15*
K	AT	3086	199	1560.	408.	21226.	1.00	32.	332.
		3136.23	0.23	0.33	0.08	3136.46	3.82	0.58	0.001 *XS*
L	AT	3216	130	1560.	290.	14890.	1.00	-50.	167.
		3137.13	0.45	1.00	0.11	3137.56	5.38	0.82	0.013 *XS*
M	AT	3276	60	1600.	251.	16105.	1.00	0.	220.
		3137.67	0.63	0.62	0.09	3138.30	6.36	0.80	0.001 *XS*
N-APP	AT	3638	362	1600.	365.	24148.	1.00	37.	268.
		3140.39	0.30	2.38	0.0	3140.69	4.38	0.54	0.005 *XS*

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 22 DATE= 8/18/77

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES J-N
PROFILE NUMBER 7, UPSTREAM COMPUTATIONS

SECID; ERROR (WARNING) MESSAGE; INTERMEDIATE RESULTS (IF ANY); ACTION TAKEN

K ; KU/KD < 0.7 OR > 1.4 ;

ALERTED USER

N-APP; KU/KD < 0.7 OR > 1.4 ;

ALERTED USER

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 23,DATE= 8/18/77

WATER-SURFACE PROFILE FOR: BOONE CREEK OVER-LAND FLOOD PROFILES J-N
PAGE 1 OF 1, PROFILE NUMBER 7, UPSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW							
WS ELEV		HV	HF	HE	EG	V	FN	ACC	ID*							
J-TW	AT	2887	/	0	/	1660.	/	777.	/	68994.	/	1.00	/	-16.	/	308.
3135.98	/	0.07	/		/	3136.05	/	2.14	/	0.24	/		/		/	*IS*
K	AT	3086	/	199	/	1660.	/	416.	/	21882.	/	1.00	/	32.	/	332.
3136.26	/	0.25	/	0.36	/	0.09	/	3136.50	/	3.99	/	0.60	/	0.001	/	*XS*
L	AT	3216	/	130	/	1660.	/	302.	/	15880.	/	1.00	/	-50.	/	167.
3137.19	/	0.47	/	1.03	/	0.11	/	3137.66	/	5.50	/	0.82	/	0.011	/	*XS*
M	AT	3276	/	60	/	1700.	/	258.	/	16792.	/	1.00	/	0.	/	220.
3137.72	/	0.68	/	0.64	/	0.10	/	3138.40	/	6.59	/	0.82	/	0.000	/	*XS*
N-APP	AT	3638	/	362	/	1700.	/	385.	/	25919.	/	1.00	/	34.	/	270.
3140.50	/	0.30	/	2.40	/	0.0	/	3140.80	/	4.42	/	0.53	/	0.003	/	*XS*

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 24. DATE= 8/18/77

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES J-N
PROFILE NUMBER 8, UPSTREAM COMPUTATIONS

SECID: ERROR(WARNING) MESSAGE: INTERMEDIATE RESULTS(IF ANY): ACTION TAKEN

K ; KU/KD < 0.7 OR > 1.4 ;

ALERTED USER

N-APP; KU/KD < 0.7 OR > 1.4 ;

ALERTED USER

WATER-SURFACE PROFILE FOR: BOONE CREEK OVER-LAND FLOOD PROFILES J-N
 PAGE 1 OF 1, PROFILE NUMBER 8, UPSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID*	
J-TW	AT	2887	0	1710.	777.	68994.	1.00	-16.	308.
3135.98		0.08			3136.06	2.20	0.25		*IS*
K	AT	3086	199	1710.	420.	22236.	1.00	31.	333.
3136.27		0.26	0.38	0.09	3136.53	4.07	0.61	0.001	*XS*
L	AT	3216	130	1710.	307.	16369.	1.00	-50.	167.
3137.21		0.48	1.04	0.11	3137.69	5.56	0.82	0.009	*XS*
M	AT	3276	60	1750.	261.	17130.	1.00	0.	220.
3137.75		0.70	0.64	0.11	3138.44	6.70	0.82	0.000	*XS*
N-APP	AT	3638	362	1750.	395.	26840.	1.00	33.	271.
3140.55		0.31	2.41	0.0	3140.86	4.43	0.53	0.005	*XS*

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 26, DATE= 8/18/77

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES J-N
PROFILE NUMBER 9, UPSTREAM COMPUTATIONS

SECID: ERROR (WARNING) MESSAGE: INTERMEDIATE RESULTS (IF ANY): ACTION TAKEN

K : KU/KD < 0.7 OR > 1.4

ALERTED USER

N-APP: KU/KD < 0.7 OR > 1.4

ALERTED USER

[USE 50' gage]

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 27. DATE= 8/18/77

WATER-SURFACE PROFILE FOR: BOONE CREEK OVER-LAND FLOOD PROFILES J-N
PAGE 1 OF 1. PROFILE NUMBER 9. UPSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV		HV	HF	HE	EG	V	FN	ACC	ID*
J-TW	AT	2887	0	1760.	777.	68994.	1.00	-16.	308.
		3135.98	0.08		3136.06	2.26	0.26		*IS*
K	AT	3086	199	1760.	424.	22591.	1.00	31.	333.
		3136.28	0.27	0.40	0.09	3136.55	4.15	0.62	0.002 *XS*
L	AT	3216	130	1760.	313.	16855.	1.00	-50.	167.
		3137.24	0.49	1.06	0.11	3137.73	5.62	0.83	0.008 *XS*
M	AT	3276	60	1800.	264.	17464.	1.00	0.	221.
		3137.77	0.72	0.65	0.11	3138.49	6.81	0.83	0.000 *XS*
N-APP	AT	3638	362	1800.	405.	27765.	1.00	31.	271.
		3140.61	0.31	2.42	0.0	3140.92	4.44	0.53	0.006 *XS*

7/11/77 2:19 PM CK

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 28, DATE= 8/18/77

PAGE 1 OF PROFILE NOTES FOR: ROONE CREEK OVER-LAND FLOOD PROFILES J-N
PROFILE NUMBER 10, UPSTREAM COMPUTATIONS

SECID: ERROR(WARNING) MESSAGE: INTERMEDIATE RESULTS(IF ANY): ACTION TAKEN

K ; KU/KD < 0.7 OR > 1.4 ;

ALERTED USER

N-APP: KU/KD < 0.7 OR > 1.4 ;

ALERTED USER

WATER-SURFACE PROFILE FOR: BOONE CREEK OVER-LAND FLOOD PROFILES J-N
 PAGE 1 OF 1, PROFILE NUMBER 10, UPSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	IEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID*	
J-TW	AT	2887	0	1860.	777.	68994.	1.00	-16.	308.
3135.98		0.09		3136.07	2.39	0.27			*IS*
K	AT	3086	199	1860.	433.	23316.	1.00	31.	333.
3136.31		0.29	0.43	0.10	3136.60	4.30	0.63	0.003	*XS*
L	AT	3216	130	1860.	324.	17808.	1.00	-50.	167.
3137.29		0.51	1.08	0.11	3137.80	5.75	0.83	0.005	*XS*
M	AT	3276	60	1900.	270.	18122.	1.00	0.	221.
3137.82		0.77	0.66	0.13	3138.59	7.02	0.85	0.000	*XS*
N-APP	AT	3638	362	1900.	425.	29619.	1.00	29.	273.
3140.72		0.31	2.43	0.0	3141.03	4.47	0.53	0.007	*XS*

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 30 DATE= 8/18/77

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES J-N
PROFILE NUMBER 11, UPSTREAM COMPUTATIONS

SECID: ERROR(WARNING) MESSAGE: INTERMEDIATE RESULTS(IF ANY): ACTION TAKEN

K	: KU/KD < 0.7 OR > 1.4	:	ALERTED USER
L	: KU/KD < 0.7 OR > 1.4	:	ALERTED USER
N-APP	: KU/KD < 0.7 OR > 1.4	:	ALERTED USER

180
 WATER-SURFACE PROFILE FOR: BOONE CREEK OVER-LAND FLOOD PROFILES J-N
 PAGE 1 OF 1, PROFILE NUMBER 11, UPSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID*	
J-TW	AT	2887	0	1860.	849.	79168.	1.00	-21.	308.
3136.20		0.07		3136.27	2.19	0.24		*IS*	
K	AT	3086	199	1860.	475.	27014.	1.00	29.	334.
3136.45		0.24	0.32	0.08	3136.69	3.92	0.55	0.010	*XS*
L	AT	3216	130	1860.	319.	17431.	1.00	-50.	167.
3137.27		0.53	0.96	0.14	3137.79	5.82	0.85	0.006	*XS*
M	AT	3276	60	1900.	271.	18145.	1.00	0.	221.
3137.82		0.77	0.67	0.12	3138.59	7.02	0.85	0.001	*XS*
N-APP	AT	3638	362	1900.	425.	29597.	1.00	29.	273.
3140.71		0.31	2.43	0.0	3141.03	4.47	0.53	0.007	*XS*

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 32,DATE= 8/18/77

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES J-N
PROFILE NUMBER 12, UPSTREAM COMPUTATIONS

SECID: ERROR(WARNING) MESSAGE: INTERMEDIATE RESULTS(IF ANY): ACTION TAKEN

K : KU/KD < 0.7 OR > 1.4

ALERTED USER

L : KU/KD < 0.7 OR > 1.4

ALERTED USER

N-APP: KU/KD < 0.7 OR > 1.4

ALERTED USER

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 33 DATE= 8/18/77

WATER-SURFACE PROFILE FOR: BOONE CREEK OVER-LAND FLOOD PROFILES J-N

PAGE 1 OF 1, PROFILE NUMBER 12, UPSTREAM COMPUTATIONS

```
=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
J-TW AT 2887 / 0 / 1960. / 849. / 79168. / 1.00 / -21. / 308.
3136.20 / 0.08 / / 3136.28 / 2.31 / 0.25 / *IS*
-----
K AT 3086 / 199 / 1960. / 475. / 27014. / 1.00 / 29. / 334.
3136.45 / 0.26 / 0.36 / 0.09 / 3136.71 / 4.13 / 0.58 / -0.017 *XS*
-----
L AT 3216 / 130 / 1960. / 331. / 18461. / 1.00 / -50. / 167.
3137.32 / 0.55 / 1.00 / 0.14 / 3137.87 / 5.93 / 0.85 / 0.009 *XS*
-----
M AT 3276 / 60 / 2000. / 277. / 18779. / 1.00 / 0. / 221.
3137.87 / 0.81 / 0.68 / 0.13 / 3138.68 / 7.23 / 0.87 / 0.000 *XS*
-----
N-APP AT 3638 / 362 / 2000. / 445. / 31470. / 1.00 / 26. / 274.
3140.82 / 0.31 / 2.45 / 0.0 / 3141.13 / 4.50 / 0.52 / 0.004 *XS*
=====
```

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 34, DATE= 8/18/77

PAGE 1 OF PROFILE NOTES FOR: ROONE CREEK OVER-LAND FLOOD PROFILES J-N
PROFILE NUMBER 13. UPSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

K ; KU/KD < 0.7 OR > 1.4 ;

ALERTED USER

L ; KU/KD < 0.7 OR > 1.4 ;

ALERTED USER

N-APP; KU/KD < 0.7 OR > 1.4 ;

ALERTED USER

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 35 DATE= 8/18/77

WATER-SURFACE PROFILE FOR: BOONE CREEK OVER-LAND FLOOD PROFILES J-N

PAGE 1 OF 1, PROFILE NUMBER 13, UPSTREAM COMPUTATIONS

```
=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
J-TW AT 2887 / 0 / 2010. / 849. / 79168. / 1.00 / -21. / 308.
3136.20 / 0.09 / / / 3136.29 / 2.37 / 0.26 / *IS*
-----
K AT 3086 / 199 / 2010. / 483. / 27733. / 1.00 / 28. / 334.
3136.48 / 0.27 / 0.37 / 0.09 / 3136.75 / 4.16 / 0.58 / 0.001 *XS*
-----
L AT 3216 / 130 / 2010. / 336. / 18906. / 1.00 / -50. / 167.
3137.34 / 0.56 / 1.00 / 0.14 / 3137.90 / 5.99 / 0.85 / 0.008 *XS*
-----
M AT 3276 / 60 / 2050. / 279. / 19094. / 1.00 / 0. / 221.
3137.89 / 0.84 / 0.68 / 0.14 / 3138.72 / 7.34 / 0.87 / 0.000 *XS*
-----
N-APP AT 3638 / 362 / 2050. / 455. / 32404. / 1.00 / 24. / 275.
3140.87 / 0.32 / 2.46 / 0.0 / 3141.19 / 4.51 / 0.52 / 0.002 *XS*
=====
```

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 36 DATE= 8/18/77

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES J-N
PROFILE NUMBER 14. UPSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

K	| KU/KD < 0.7 OR > 1.4	|	ALERTED USER
L	| KU/KD < 0.7 OR > 1.4	|	ALERTED USER
N-APP	| KU/KD < 0.7 OR > 1.4	|	ALERTED USER

[USE ONLY]

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 37 DATE= 8/18/77

WATER-SURFACE PROFILE FOR: BOONE CREEK OVER-LAND FLOOD PROFILES J-N
PAGE 1 OF 1, PROFILE NUMBER 14, UPSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV		HV	HF	HE	EG	V	FN	ACC	ID*
J-TW	AT	2887	0	2060.	849.	79168.	1.00	-21.	308.
3136.20		0.09			3136.29	2.43	0.27		*IS*
K	AT	3086	199	2060.	486.	28061.	1.00	28.	334.
3136.49		0.28	0.38	0.09	3136.77	4.24	0.59	0.001	*XS*
L	AT	3216	130	2060.	341.	19385.	1.00	-50.	167.
3137.37		0.57	1.01	0.14	3137.93	6.05	0.85	0.009	*XS*
M	AT	3276	60	2100.	282.	19407.	1.00	0.	221.
3137.91		0.86	0.69	0.15	3138.77	7.44	0.88	0.000	*XS*
N-APP	AT	3638	362	2100.	464.	33356.	1.00	23.	276.
3140.92		0.32	2.47	0.0	3141.24	4.52	0.52	0.001	*XS*

2187 + 142 = 2342 read 2220

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 38,DATE= 8/18/77

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES J-N
PROFILE NUMBER 15, UPSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

K ; KU/KD < 0.7 OR > 1.4 ;

ALERTED USER

N-APP; KU/KD < 0.7 OR > 1.4 ;

ALERTED USER

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 39,DATE= 8/18/77

WATER-SURFACE PROFILE FOR: BOONE CREEK OVER-LAND FLOOD PROFILES J-N
PAGE 1 OF 1, PROFILE NUMBER 15, UPSTREAM COMPUTATIONS

```
=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
J-TW AT 2887 / 0 / 2160. / 849. / 79168. / 1.00 / -21. / 308.
3136.20 / 0.10 / / 3136.30 / 2.54 / 0.28 / *IS*
-----
K AT 3086 / 199 / 2160. / 494. / 28729. / 1.00 / 28. / 334.
3136.51 / 0.30 / 0.41 / 0.10 / 3136.81 / 4.38 / 0.61 / 0.002 *XS*
-----
L AT 3216 / 130 / 2160. / 351. / 20332. / 1.00 / -50. / 168.
3137.41 / 0.59 / 1.04 / 0.15 / 3138.00 / 6.15 / 0.85 / 0.008 *XS*
-----
M AT 3276 / 60 / 2200. / 288. / 20022. / 1.00 / 0. / 221.
3137.95 / 0.91 / 0.70 / 0.16 / 3138.86 / 7.65 / 0.90 / 0.000 *XS*
-----
N-APP AT 3638 / 362 / 2200. / 485. / 35343. / 1.00 / 20. / 277.
3141.02 / 0.32 / 2.48 / 0.0 / 3141.34 / 4.54 / 0.52 / 0.005 *XS*
=====
```

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 40 DATE= 8/18/77

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES J-
PROFILE NUMBER 16, UPSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

K ; KU/KD < 0.7 OR > 1.4 ; ALERTED USER

L ; KU/KD < 0.7 OR > 1.4 ; ALERTED USER

N-APP; KU/KD < 0.7 OR > 1.4 ; ALERTED USER

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 41, DATE= 8/18/77

WATER-SURFACE PROFILE FOR: BOONE CREEK OVER-LAND FLOOD PROFILES J-N
PAGE 1 OF 1, PROFILE NUMBER 16, UPSTREAM COMPUTATIONS

```
=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
J-TW AT 2887 / 0 / 2660. / 1006. / 102890. / 1.00 / -31. / 308.
3136.67 / 0.11 / / / 3136.78 / 2.64 / 0.27 / *IS*
-----
K AT 3085 / 199 / 2660. / 621. / 41286. / 1.00 / 22. / 337.
3136.92 / 0.29 / 0.33 / 0.09 / 3137.21 / 4.29 / 0.54 / 0.006 *XS*
-----
L AT 3216 / 130 / 2660. / 395. / 24711. / 1.00 / -50. / 169.
3137.62 / 0.70 / 0.90 / 0.21 / 3138.32 / 6.73 / 0.88 / 0.003 *XS*
-----
M AT 3276 / 60 / 2700. / 313. / 22920. / 1.00 / 0. / 221.
3138.15 / 1.16 / 0.76 / 0.23 / 3139.31 / 8.62 / 0.97 / -0.000 *XS*
-----
N-APP AT 3638 / 362 / 2700. / 587. / 45631. / 1.00 / 8. / 284.
3141.51 / 0.33 / 2.52 / 0.0 / 3141.83 / 4.60 / 0.50 / 0.004 *XS*
=====
```

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 42 DATE= 8/18/77

PAGE 1 OF PROFILE NOTES FOR: ROONE CREEK OVER-LAND FLOOD PROFILES J-N
PROFILE NUMBER 17, UPSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

K ; KU/KD < 0.7 OR > 1.4 ; ALERTED USER

L ; KU/KD < 0.7 OR > 1.4 ; ALERTED USER

N-APP; KU/KD < 0.7 OR > 1.4 ; ALERTED USER

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 43 DATE= 8/18/77

WATER-SURFACE PROFILE FOR: BOONE CREEK OVER-LAND FLOOD PROFILES J-N
PAGE 1 OF 1, PROFILE NUMBER 17, UPSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW	WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID
J-TW	AT	2887	0	2760.	1006.	102890.	1.00	-31.	308.	3136.67	0.12			3136.79	2.74	0.28		*IS*
K	AT	3086	199	2760.	621.	41286.	1.00	22.	337.	3136.92	0.31	0.36	0.10	3137.23	4.45	0.56	-0.012	*XS*
L	AT	3216	130	2760.	403.	25500.	1.00	-50.	169.	3137.65	0.73	0.94	0.21	3138.38	6.85	0.89	0.001	*XS*
M	AT	3276	60	2800.	318.	23467.	1.00	0.	221.	3138.19	1.21	0.77	0.24	3139.39	8.81	0.99	-0.000	*XS*
N-APP	AT	3638	362	2800.	608.	47782.	1.00	5.	285.	3141.60	0.33	2.53	0.0	3141.93	4.61	0.49	0.002	*XS*

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 44,DATE= 8/18/77

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES J-N
PROFILE NUMBER 19; UPSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

K	; KU/KD < 0.7 OR > 1.4	; ALERTED USER
L	; KU/KD < 0.7 OR > 1.4	; ALERTED USER
N-APP	; KU/KD < 0.7 OR > 1.4	; ALERTED USER

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 45, DATE= 8/18/77

WATER-SURFACE PROFILE FOR: BOONE CREEK OVER-LAND FLOOD PROFILES J-N
PAGE 1 OF 1, PROFILE NUMBER 18, UPSTREAM COMPUTATIONS

```
=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
  WS. ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
J-TW AT 2887 / 0 / 2810. / 1006. / 102890. / 1.00 / -31. / 308.
  3136.67 / 0.12 / / 3136.79 / 2.79 / 0.29 / *IS*
-----
K AT 3086 / 199 / 2810. / 627. / 41926. / 1.00 / 21. / 338.
  3136.94 / 0.31 / 0.36 / 0.10 / 3137.25 / 4.48 / 0.56 / 0.000 *XS*
-----
L AT 3216 / 130 / 2810. / 407. / 25942. / 1.00 / -50. / 169.
  3137.67 / 0.74 / 0.94 / 0.21 / 3138.41 / 6.90 / 0.89 / 0.001 *XS*
-----
M AT 3276 / 60 / 2850. / 320. / 23732. / 1.00 / 0. / 221.
  3138.20 / 1.23 / 0.78 / 0.25 / 3139.44 / 8.91 / 0.99 / -0.000 *XS*
-----
N-APP AT 3638 / 362 / 2850. / 618. / 48898. / 1.00 / 4. / 285.
  3141.64 / 0.33 / 2.53 / 0.0 / 3141.97 / 4.61 / 0.49 / 0.002 *XS*
=====
```

END OF THIS PROFILE

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES J-N
PROFILE NUMBER 19, UPSTREAM COMPUTATIONS

SECID	ERROR(WARNING) MESSAGE	INTERMEDIATE RESULTS(IF ANY)	ACTION TAKEN
K	KU/KD < 0.7 OR > 1.4		ALERTED USER
L	KU/KD < 0.7 OR > 1.4		ALERTED USER
M	FRDN FAILURE		
		WS = 3138.24 & FR = 1.00	USED HIGHER WS
M	WS NOT FOUND BETWEEN		
		WS = 3137.45 & WS = 3145.00	USED DEL = 0.25
M	FRDN FAILURE		
		WS = 3138.24 & FR = 1.00	USED HIGHER WS
M	WS NOT FOUND BETWEEN		
		WS = 3137.45 & WS = 3145.00	USED WSMIN = WSC
N-APP	KU/KD < 0.7 OR > 1.4		ALERTED USER

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 47 DATE= 8/18/77

USE THIS PROFILE FOR

WATER-SURFACE PROFILE FOR: BOONE CREEK OVER-LAND FLOOD PROFILES J-N
PAGE 1 OF 1, PROFILE NUMBER 19, UPSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW	WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID*
J-TW	AT	2887	0	2860.	1006.	102890.	1.00	-31.	308.	3136.67	0.13			3136.80	2.84	0.29		*JS*
K	AT	3086	199	2860.	629.	42202.	1.00	21.	338.	3136.95	0.32	0.37	0.10	3137.27	4.54	0.57	0.000	*XS*
L	AT	3216	130	2860.	413.	26567.	1.00	-50.	169.	3137.70	0.75	0.95	0.21	3138.44	6.92	0.89	0.013	*XS*
M	AT	3276	60	2900.	324.	24267.	1.00	0.	222.	3138.24	1.24	0.77	0.25	3139.48	8.94	0.99	0.018	*XS*
N-APP	AT	3638	362	2900.	625.	49682.	1.00	3.	286.	3141.68	0.33	2.53	0.0	3142.01	4.64	0.49	0.003	*XS*

7/18/77
some
etc

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 48. DATE= 8/18/77

COMPUTED WSC VALUES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES J-N
PROFILE NUMBER 19, UPSTREAM COMPUTATIONS

SECID M
WSC 3138.24

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES J-N
 PROFILE NUMBER 20, UPSTREAM COMPUTATIONS

SECID	ERROR(WARNING) MESSAGE	INTERMEDIATE RESULTS(IF ANY)	ACTION TAKEN
K	: KU/KD < 0.7 OR > 1.4	:	ALERTED USER
L	: KU/KD < 0.7 OR > 1.4	:	ALERTED USER
M	: FRDN FAILURE	: WS = 3138.28 & FR = 1.02:	USED HIGHER WS
M	: WS NOT FOUND BETWEEN	: WS = 3137.47 & WS = 3145.00:	USED DEL = 0.25
M	: FRDN FAILURE	: WS = 3138.28 & FR = 1.02:	USED HIGHER WS
M	: WS NOT FOUND BETWEEN	: WS = 3137.47 & WS = 3145.00:	USED WSMIN = WSC
M	: WS NOT FOUND	:	ASSUMED WS = WSC
N-APP	: KU/KD < 0.7 OR > 1.4	:	ALERTED USER

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 50,DATE= 8/18/77

WATER-SURFACE PROFILE FOR: BOONE CREEK OVER-LAND FLOOD PROFILES J-N
PAGE 1 OF 1, PROFILE NUMBER 20, UPSTREAM COMPUTATIONS

```
=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
J-TW AT 2887 / 0 / 2960. / 1006. / 102890. / 1.00 / -31. / 308.
3136.67 / 0.13 / / 3136.80 / 2.94 / 0.30 / *IS*
-----
K AT 3086 / 199 / 2960. / 635. / 42791. / 1.00 / 21. / 338.
3136.97 / 0.34 / 0.40 / 0.10 / 3137.30 / 4.66 / 0.58 / 0.000 *XS*
-----
L AT 3216 / 130 / 2960. / 417. / 26972. / 1.00 / -50. / 169.
3137.72 / 0.78 / 0.99 / 0.22 / 3138.50 / 7.10 / 0.91 / -0.014 *XS*
-----
M AT 3276 / 60 / 3000. / 332. / 25180. / 1.00 / 0. / 222.
3138.30 / 1.27 /***** /***** / 3139.57 / 9.04 / 0.99 /***** *XS*
-----
N-APP AT 3638 / 362 / 3000. / 641. / 51445. / 1.00 / 1. / 286.
3141.75 / 0.34 / 2.52 / 0.0 / 3142.09 / 4.68 / 0.49 / 0.003 *XS*
=====
```

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 51.DATE= 8/18/77

COMPUTED WSC VALUES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES J-N
PROFILE NUMBER 20, UPSTREAM COMPUTATIONS

SECID M
WSC 3138.30

BOONE CREEK

CULV P-R

BASE ELEVATION = 38.10

Z = 3.70

APPROACH ELEVATION	AREA	CONVEYANCE	ALPHA	TOP WIDTH	QC
41.78	0.0	0.0	0.0	0.0	0.0
42.36	0.0	0.0	0.0	0.0	0.0
42.94	0.4	2.3	1.000	3.2	0.75
43.52	5.8	85.1	1.000	12.6	22.50
44.10	13.5	316.6	1.000	13.8	75.65
44.68	21.8	656.4	1.000	14.9	149.60
45.26	30.7	1093.8	1.000	16.0	242.21
45.84	40.3	1621.8	1.000	17.0	352.12
46.42	50.5	2238.4	1.000	18.1	478.87
47.00	61.3	2943.2	1.000	19.1	622.33
47.58	72.7	3736.6	1.000	20.2	782.51
48.16	84.7	4619.9	1.000	21.2	959.49
48.74	97.3	5594.4	1.000	22.3	1153.47
49.32	110.5	6661.9	1.000	23.3	1364.64
49.90	124.4	7825.1	1.001	24.9	1577.75
50.48	139.5	9096.4	1.006	27.0	1799.05
51.06	155.8	10438.3	1.011	29.4	2034.37
51.64	173.6	11935.3	1.016	32.1	2289.28
52.22	196.2	13754.2	1.047	46.5	2286.14
52.80	232.1	15891.7	1.161	111.3	1901.62
53.38	323.4	19891.3	1.408	240.9	2126.19
53.96	475.4	29356.1	1.318	279.3	3519.12
54.54	644.4	43253.7	1.167	303.6	5328.04
55.12	827.5	61043.6	1.089	327.8	7461.04
55.70	1024.6	82687.6	1.055	352.0	9920.12

BOONE CREEK

CULV P-R

BASE ELEVATION = 38.10

Z = 3.70

BARREL DEPTH	AREA	CONVEYANCE	TOP WIDTH	WETTED PERIMETER
0.0	0.0	0.0	0.0	
0.276	0.50	10.4	2.70	2.78
0.552	1.40	45.3	3.74	3.96
0.828	2.54	106.3	4.48	4.88
1.104	3.86	192.9	5.06	5.68
1.380	5.32	304.3	5.52	6.40
1.656	6.90	438.9	5.89	7.07
1.932	8.57	595.0	6.20	7.69
2.208	10.32	770.6	6.44	8.30
2.484	12.12	963.4	6.62	8.88
2.760	13.97	1171.0	6.76	9.45
3.036	15.85	1390.8	6.85	10.01
3.312	17.74	1620.1	6.89	10.56
3.588	19.65	1856.0	6.89	11.11
3.864	21.55	2095.2	6.85	11.67
4.140	23.43	2334.6	6.76	12.23
4.416	25.27	2570.4	6.62	12.80
4.692	27.08	2799.0	6.44	13.38
4.968	28.82	3016.1	6.20	13.98
5.244	30.49	3217.1	5.89	14.61
5.520	32.07	3396.5	5.52	15.28
5.796	33.53	3548.1	5.06	16.00
6.072	34.85	3663.2	4.48	16.80
6.348	35.99	3729.5	3.74	17.72
6.624	36.89	3722.9	2.70	18.90
6.900	37.39	3474.9	0.0	21.68

BOONE CREEK

CULV P-R

BASE ELEVATION =

38.10

Z =

3.70

Q	ELEV H1	ELEV H4	D2	D3	TYPE	C	C ADJUSTED
50.0	44.36	*****	1.95	1.79	2	0.94	0.96
50.0	44.36	40.00	1.84	1.90	3	0.94	0.96
50.0	NO SOLUTION TYPE THREE FLOW						
50.0	NO SOLUTION TYPE THREE FLOW						
50.0	NO SOLUTION TYPE THREE FLOW						
50.0	44.42	44.00	2.29	5.90	3	0.94	0.96
50.0	44.77	44.50	2.80	6.40	3	0.94	0.96
50.0	49.13	49.00	6.90	6.90	4	0.85	0.85
100.0	45.46	*****	2.80	2.57	2	0.94	0.95
100.0	NO SOLUTION TYPE THREE FLOW						
100.0	NO SOLUTION TYPE THREE FLOW						
100.0	NO SOLUTION TYPE THREE FLOW						
100.0	45.36	44.00	2.63	5.90	3	0.94	0.95
100.0	45.47	44.50	3.09	6.40	3	0.94	0.96
100.0	49.54	49.00	6.90	6.90	4	0.85	0.85
200.0	47.30	*****	4.30	3.70	2	0.93	0.94
200.0	47.20	42.00	4.12	3.90	3	0.93	0.94
200.0	NO SOLUTION TYPE THREE FLOW						
200.0	47.03	44.00	3.86	5.90	3	0.93	0.94
200.0	47.10	44.50	4.17	6.40	3	0.93	0.94
200.0	51.15	49.00	6.90	6.90	4	0.85	0.85
300.0	49.43	*****	5.98	4.57	2	0.88	0.89
300.0	49.14	43.00	5.68	4.90	3	0.89	0.90
300.0	48.87	44.00	5.47	5.90	3	0.89	0.90
300.0	48.96	44.50	5.68	6.40	3	0.89	0.90
300.0	53.83	49.00	6.90	6.90	4	0.85	0.85
400.0	TYPE.. 2	ENERGY EQUATIONS NOT BALANCED					
400.0	53.09	*****	*****	*****	6	0.85	0.85
400.0	57.59	49.00	6.90	6.90	4	0.85	0.85
450.0	TYPE.. 2	ENERGY EQUATIONS NOT BALANCED					
450.0	55.42	*****	*****	*****	6	0.85	0.85
450.0	59.87	49.00	6.90	6.90	4	0.85	0.85
500.0	TYPE.. 2	ENERGY EQUATIONS NOT BALANCED					
500.0	55.43	*****	*****	*****	5	0.49	0.49
500.0	58.02	*****	*****	*****	6	0.85	0.85
500.0	62.42	49.00	6.90	6.90	4	0.85	0.85
600.0	TYPE.. 2	ENERGY EQUATIONS NOT BALANCED					
600.0	56.37	*****	*****	*****	5	0.52	0.52
600.0	63.94	*****	*****	*****	6	0.85	0.85
600.0	68.32	49.00	6.90	6.90	4	0.85	0.85

BOONE CREEK

CULV P-R

BASE ELEVATION = 38.10

Z = 3.70

Q	ELEV H1	ELEV HA	D2	D3	TYPE	C	C ADJUSTED
700.0	TYPE.. 2	ENERGY EQUATIONS NOT BALANCED					
700.0	60.09	*****	*****	*****	5	0.55	0.55
700.0	70.71	*****	*****	*****	6	0.85	0.85
700.0	75.30	49.00	6.90	6.90	4	0.85	0.85
800.0	TYPE.. 2	ENERGY EQUATIONS NOT BALANCED					
800.0	64.12	*****	*****	*****	5	0.56	0.56
800.0	78.22	*****	*****	*****	6	0.85	0.85
800.0	83.35	49.00	6.50	6.90	4	0.85	0.85
900.0	TYPE.. 2	ENERGY EQUATIONS NOT BALANCED					
900.0	68.77	*****	*****	*****	5	0.58	0.58
900.0	86.33	*****	*****	*****	6	0.85	0.85
900.0	92.48	49.00	6.90	6.90	4	0.85	0.85

CROSS-SECTION PROPERTIES FOR: BOONE CREEK X-SECTION PROPERTIES
 SECID=P AT DISTANCE= 4334 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
3143.0	96	5969	1.00	28	32	101	129	1006
3143.1	99	6230	1.00	28	32	101	129	1048
3143.2	102	6497	1.00	28	32	101	129	1091
3143.3	104	6767	1.00	28	32	100	129	1134
3143.4	107	7042	1.00	29	33	100	129	1179
3143.5	110	7322	1.00	29	33	100	129	1223
3143.6	113	7605	1.00	29	33	100	129	1269
3143.7	116	7893	1.00	29	33	100	129	1315
3143.8	119	8184	1.00	29	34	100	129	1362
3143.9	122	8480	1.00	29	34	100	129	1409
3144.0	125	8780	1.00	29	34	100	130	1457
3144.1	127	9084	1.00	29	34	100	130	1505
3144.2	130	9392	1.00	30	35	100	130	1555
3144.3	133	9703	1.00	30	35	100	130	1604
3144.4	136	10020	1.00	30	35	100	130	1655
3144.5	139	10369	1.00	33	38	100	133	1633
3144.6	143	10724	1.01	36	41	100	136	1620
3144.7	147	11090	1.01	38	44	100	139	1613
3144.8	151	11468	1.02	41	47	100	141	1613
3144.9	155	11859	1.03	44	50	100	144	1618
3145.0	159	12265	1.04	47	53	100	147	1629
3145.1	164	12688	1.05	50	56	100	150	1646
3145.2	170	13108	1.07	58	64	100	158	1585
3145.3	176	13561	1.10	67	73	100	167	1549
3145.4	183	14048	1.12	75	81	100	175	1532
3145.5	191	13170	1.14	90	96	93	183	1485
3145.6	201	12661	1.14	105	111	87	192	1477
3145.7	212	13378	1.16	113	119	87	200	1526
3145.8	223	14197	1.17	115	121	87	202	1636
3145.9	235	15065	1.17	116	122	87	203	1752
3146.0	247	15979	1.17	118	124	87	205	1875
3146.1	258	16936	1.16	119	126	87	206	2002
3146.2	270	17939	1.15	121	127	87	208	2135
3146.3	283	18983	1.15	123	129	87	210	2273
3146.4	295	20072	1.14	124	130	87	211	2416
3146.5	307	21205	1.13	126	132	87	213	2563
3146.6	320	22378	1.12	127	134	87	214	2715
3146.7	333	23596	1.12	131	138	55	216	2853
3146.8	346	24856	1.11	134	142	54	218	2995
3146.9	360	26164	1.11	137	145	52	219	3142
3147.0	374	27518	1.10	141	149	50	221	3293
3147.1	388	28917	1.10	144	152	49	222	3448
3147.2	403	30367	1.10	147	156	47	224	3608
3147.3	417	31862	1.09	150	159	45	226	3773
3147.4	433	32862	1.11	162	171	43	241	3805

CROSS-SECTION PROPERTIES FOR: ROONE CREEK X-SECTION PROPERTIES
 SECID=P AT DISTANCE= 4334 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
3147.5	450	33987	1.13	174	183	6	249	3852
3147.6	468	35232	1.15	186	196	6	257	3920
3147.7	487	37049	1.15	190	200	5	257	4122
3147.8	506	39051	1.14	193	203	5	257	4358
3147.9	525	41127	1.13	195	205	5	258	4601
3148.0	545	43224	1.13	204	214	5	258	4767
3148.1	566	45138	1.13	216	227	5	261	4892
3148.2	589	47136	1.14	230	241	4	265	5002
3148.3	612	49308	1.14	234	245	4	268	5257
3148.4	635	51570	1.14	238	249	4	272	5523
3148.5	659	53917	1.14	241	253	4	275	5798
3148.6	683	56532	1.13	243	255	4	277	6113
3148.7	708	59233	1.13	245	257	3	278	6437
3148.8	732	62005	1.12	246	259	3	280	6768
3148.9	757	64862	1.11	248	261	3	281	7108
3149.0	782	67793	1.11	250	263	3	283	7453
3149.1	807	70793	1.10	252	265	3	284	7805
3149.2	832	73876	1.10	254	267	2	286	8165
3149.3	858	77026	1.09	255	269	2	287	8531
3149.4	884	80258	1.09	257	271	2	289	8905
3149.5	909	83565	1.08	259	273	1	291	9285
3149.6	935	86937	1.08	261	275	1	292	9670
3149.7	962	90391	1.07	263	277	1	294	10064
3149.8	988	93910	1.07	265	279	1	295	10462
3149.9	1014	97511	1.07	266	281	0	297	10868
3150.0	1041	101185	1.06	268	283	0	298	11280
3150.1	1068	104927	1.06	270	285	0	300	11698
3150.2	1095	108895	1.06	271	287	0	301	12131
3150.3	1122	112926	1.06	273	288	0	301	12569
3150.4	1150	117040	1.05	274	290	-1	302	13013
3150.5	1177	121226	1.05	276	292	-2	303	13463
3150.6	1205	125478	1.05	277	293	-2	303	13917
3150.7	1233	129811	1.05	278	295	-3	304	14377
3150.8	1261	134205	1.05	280	296	-4	305	14842
3150.9	1289	138683	1.04	281	298	-5	306	15313
3151.0	1317	143233	1.04	282	300	-5	306	15790
3151.1	1345	147844	1.04	284	301	-6	307	16270
3151.2	1374	152538	1.04	285	303	-7	308	16757
3151.3	1402	157292	1.04	287	304	-7	308	17249
3151.4	1431	162130	1.04	288	306	-8	309	17746
3151.5	1460	167039	1.04	289	308	-9	310	18249
3151.6	1489	172008	1.04	291	309	-9	310	18757
3151.7	1518	177060	1.04	292	311	-10	311	19270
3151.8	1547	182171	1.04	293	312	-11	312	19788
3151.9	1577	187365	1.04	295	314	-11	312	20312

ROONE CREEK

CUL H-I

BASE ELEVATION = 23.20

Z = 0.10

APPROACH ELEVATION	AREA	CONVEYANCE	ALPHA	TOP WIDTH	QC
23.30	12.6	332.1	1.000	17.5	60.72
23.85	25.4	807.6	1.000	26.3	141.31
24.40	40.2	1668.7	1.000	27.7	274.95
24.95	55.9	2770.5	1.000	29.2	438.96
25.50	72.3	4097.4	1.000	30.6	630.94
26.05	89.5	5640.8	1.000	32.0	849.56
26.60	107.5	7395.9	1.000	33.4	1094.07
27.15	126.2	9360.5	1.000	34.8	1364.04
27.70	145.8	11534.1	1.000	36.2	1659.25
28.25	166.1	13917.1	1.000	37.6	1979.63
28.80	187.2	16510.7	1.000	39.1	2325.18
29.35	209.1	19316.8	1.000	40.5	2696.00
29.90	231.7	22337.7	1.000	41.9	3092.23
30.45	255.1	25576.1	1.000	43.3	3514.04
31.00	279.4	29034.6	1.000	44.7	3961.64
31.55	304.3	32716.4	1.000	46.1	4435.25
32.10	330.1	36562.4	1.000	47.7	4927.03
32.65	357.3	40507.6	1.002	54.6	5187.44
33.20	400.8	45290.3	1.067	109.4	4353.04
33.75	480.3	51574.1	1.220	166.9	4623.46
34.30	580.1	61026.5	1.321	196.6	5653.68
34.85	697.8	72454.4	1.401	231.4	6876.18
35.40	834.6	86191.9	1.452	266.1	8386.86
35.95	994.8	100375.1	1.561	329.9	9803.82
36.50	1184.9	120902.1	1.540	358.7	12219.75

BOONE CREEK

CUL H-T

BASE ELEVATION = 23.20

Z = 0.10

BARREL DEPTH	AREA	CONVEYANCE	TOP WIDTH	WETTED PERIMETER
0.0	0.0	0.0	20.00	21.06
0.264	5.28	173.3	20.00	22.11
0.528	10.56	532.6	20.00	23.17
0.792	15.84	1014.9	20.00	24.22
1.056	21.12	1591.2	20.00	25.28
1.320	26.40	2243.4	20.00	26.34
1.584	31.68	2958.2	20.00	27.39
1.848	36.96	3725.8	20.00	28.45
2.112	42.24	4538.6	20.00	29.50
2.376	47.52	5390.4	20.00	30.56
2.640	52.80	6276.2	20.00	31.62
2.904	58.08	7192.0	20.00	32.67
3.168	63.36	8134.3	20.00	33.73
3.432	68.64	9100.1	20.00	34.78
3.696	73.92	10087.0	20.00	35.84
3.960	79.20	11092.8	20.00	36.90
4.224	84.48	12115.7	20.00	37.95
4.488	89.76	13154.1	20.00	39.01
4.752	95.04	14206.5	20.00	40.06
5.016	100.32	15271.7	20.00	41.12
5.280	105.60	16348.7	20.00	42.18
5.544	110.88	17436.4	20.00	43.23
5.808	116.16	18534.0	20.00	44.29
6.072	121.44	19640.7	20.00	45.34
6.336	126.72	20755.9	20.00	46.40
6.600	132.00	17228.9	20.00	66.40

BOONE CREEK

CUL H-I

BASE ELEVATION = 23.20

Z = 0.10

Q	ELEV HI	ELEV H4	D2	D3	TYPE	C	C ADJUSTED
400.0	26.90	*****	3.04	2.31	2	0.98	0.98
400.0	26.92	26.00	3.09	2.80	3	0.98	0.98
400.0	27.45	27.00	3.83	3.80	3	0.93	0.98
400.0	28.26	28.00	4.76	4.80	3	0.98	0.98
400.0	29.18	29.00	5.74	5.80	3	0.95	0.96
400.0	32.24	32.00	6.60	6.60	4	0.86	0.86
600.0	27.97	*****	3.90	3.03	2	0.98	0.98
600.0	28.06	27.00	4.08	3.80	3	0.98	0.98
600.0	28.62	28.00	4.86	4.80	3	0.98	0.98
600.0	29.40	29.00	5.79	5.80	3	0.98	0.98
600.0	32.54	32.00	6.60	6.60	4	0.86	0.86
800.0	28.93	*****	4.66	3.68	2	0.98	0.98
800.0	28.92	27.00	4.64	3.80	3	0.98	0.98
800.0	29.14	28.00	5.05	4.80	3	0.98	0.98
800.0	29.74	29.00	5.87	5.80	3	0.98	0.98
800.0	32.95	32.00	6.60	6.60	4	0.86	0.86
1000.0	29.82	*****	5.36	4.26	2	0.98	0.98
1000.0	29.83	28.00	5.40	4.80	3	0.98	0.98
1000.0	30.19	29.00	6.02	5.80	3	0.98	0.98
1000.0	33.49	32.00	6.60	6.60	4	0.86	0.86
1100.0	30.25	*****	5.69	4.54	2	0.98	0.98
1100.0	30.23	28.00	5.67	4.80	3	0.98	0.98
1100.0	30.46	29.00	6.12	5.80	3	0.98	0.98
1100.0	33.80	32.00	6.60	6.60	4	0.86	0.86
1200.0	30.66	*****	6.01	4.81	2	0.98	0.98
1200.0	30.76	29.00	6.25	5.80	3	0.98	0.98
1200.0	34.14	32.00	6.60	6.60	4	0.86	0.86
1300.0	31.06	*****	6.33	5.08	2	0.98	0.98
1300.0	31.17	29.00	6.57	5.80	3	0.98	0.98
1300.0	34.52	32.00	6.60	6.60	4	0.86	0.86
1500.0	TYPE.. 2	ENERGY EQUATIONS NOT BALANCED					
1500.0	35.35	32.00	6.60	6.60	4	0.86	0.86
1800.0	TYPE.. 2	ENERGY EQUATIONS NOT BALANCED					
1800.0	34.72	*****	*****	*****	5	0.50	0.50
1800.0	33.54	*****	*****	*****	6	0.86	0.86
1800.0	36.83	32.00	6.60	6.60	4	0.86	0.86
1900.0	TYPE.. 2	ENERGY EQUATIONS NOT BALANCED					
1900.0	35.47	*****	*****	*****	5	0.51	0.51
1900.0	34.03	*****	*****	*****	6	0.86	0.86
1900.0	37.38	32.00	6.60	6.60	4	0.86	0.86

BOONE CREEK

C/L H-1

BASE ELEVATION = 23.20

Z = 0.10

	ELEV H1	ELEV H4	D2	D3	TYPE	C	C ADJUSTED
0							
2060.0	36.71	*****	*****	*****	5	0.53	0.53
2060.0	34.88	*****	*****	*****	6	0.86	0.86
2060.0	38.37	32.00	6.60	6.60	4	0.86	0.86
2380.0	39.74	*****	*****	*****	5	0.55	0.55
2380.0	36.80	*****	*****	*****	6	0.86	0.86
2380.0	40.44	32.00	6.60	6.60	4	0.86	0.86

BOONE CREEK

CUL G-H

BASE ELEVATION = 22.30

Z = -0.20

APPROACH ELEVATION	AREA	CONVEYANCE	ALPHA	TOP WIDTH	QC
22.00	0.9	9.6	1.000	4.3	2.16
22.68	6.6	116.4	1.000	14.1	25.45
23.36	18.2	512.9	1.000	19.2	100.27
24.04	32.0	1209.5	1.000	21.4	221.71
24.72	47.3	2155.1	1.000	23.7	379.71
25.40	64.1	3364.0	1.000	25.6	575.93
26.08	82.1	4824.9	1.000	27.3	808.08
26.76	101.3	6523.1	1.000	29.0	1073.60
27.44	121.6	8460.4	1.000	30.7	1372.48
28.12	143.0	10742.3	1.001	32.4	1704.73
28.80	165.7	13348.8	1.004	34.1	2070.83
29.48	189.5	16226.6	1.008	35.9	2471.38
30.16	214.5	19382.5	1.012	37.6	2906.88
30.84	240.6	22822.8	1.016	39.3	3377.91
31.52	267.9	26554.1	1.019	41.0	3885.04
32.20	297.4	29944.1	1.048	59.7	3767.11
32.88	361.7	34565.3	1.174	109.6	3729.18
33.56	437.2	41251.4	1.192	112.4	4891.68
34.24	514.6	49418.9	1.156	115.3	6168.95
34.92	596.3	55907.9	1.081	125.0	7391.02
35.60	681.3	68247.6	1.056	125.0	9026.30
36.28	766.3	81650.4	1.037	125.0	10767.03
36.96	851.3	96037.8	1.024	125.0	12607.19
37.64	936.3	111343.6	1.015	125.0	14541.68
38.32	1021.3	127511.3	1.009	125.0	16566.07

ROONE CREEK

CUL G-H

BASE ELEVATION = 22.30

Z = -0.20

BARREL DEPTH	AREA	CONVEYANCE	TOP WIDTH	WETTED PERIMETER
0.0	0.0	0.0	0.0	
0.336	1.59	33.5	7.10	7.14
0.672	4.49	149.5	9.99	10.11
1.008	8.23	357.9	12.18	12.40
1.344	12.63	666.5	13.89	14.24
1.680	17.44	1089.2	14.67	15.28
2.016	22.45	1603.6	15.07	16.07
2.352	27.56	2193.2	15.30	16.78
2.688	32.72	2610.9	15.37	19.83
3.024	37.86	3255.9	15.25	20.51
3.360	42.96	3931.2	15.09	21.20
3.696	48.00	4628.7	14.90	21.90
4.032	52.97	5340.8	14.69	22.61
4.368	57.86	6060.3	14.43	23.32
4.704	62.66	6780.2	14.14	24.06
5.040	67.36	7493.7	13.81	24.80
5.376	71.94	8193.8	13.44	25.57
5.712	76.39	8873.5	13.03	26.36
6.048	80.69	9525.5	12.56	27.18
6.384	84.82	10142.4	12.04	28.03
6.720	88.77	10715.8	11.46	28.92
7.056	92.51	11236.8	10.80	29.86
7.392	96.02	11695.1	10.05	30.86
7.728	99.26	12078.1	9.20	31.95
8.064	102.19	12369.9	8.21	33.15
8.400	104.75	12546.9	7.01	34.52

BOONE CREEK

CUL G-H

BASE ELEVATION = 22.30

7 = -0.20

Q	ELEV H1	ELEV H4	D2	D3	TYPE	C	C ADJUSTED
150.0	25.39	*****	3.01	1.97	2	0.96	0.97
150.0	25.97	25.70	3.73	3.40	3	0.96	0.97
150.0	27.07	26.95	4.90	4.65	3	0.96	0.97
150.0	27.88	27.80	5.73	5.50	3	0.96	0.97
150.0	28.76	28.70	6.62	6.40	3	0.95	0.96
150.0	29.36	29.31	7.23	7.01	3	0.94	0.95
150.0	30.53	30.48	8.39	8.18	3	0.91	0.94
150.0	31.02	30.97	8.40	8.40	4	0.86	0.86
300.0	26.74	*****	4.15	2.82	2	0.96	0.97
300.0	26.74	25.70	4.19	3.40	3	0.96	0.97
300.0	27.44	26.95	5.05	4.65	3	0.96	0.97
300.0	28.13	27.80	5.82	5.50	3	0.96	0.97
300.0	28.95	28.70	6.68	6.40	3	0.94	0.96
300.0	29.53	29.31	7.27	7.01	3	0.93	0.95
300.0	30.66	30.48	8.40	8.18	3	0.91	0.93
300.0	31.19	30.97	8.40	8.40	4	0.86	0.86
500.0	28.24	*****	5.33	3.74	2	0.96	0.96
500.0	28.31	26.95	5.49	4.65	3	0.95	0.96
500.0	28.75	27.80	6.06	5.50	3	0.95	0.96
500.0	29.47	28.70	6.83	6.40	3	0.93	0.95
500.0	29.93	29.31	7.40	7.01	3	0.93	0.94
500.0	31.00	30.48	8.40	8.18	3	0.91	0.93
500.0	31.57	30.97	8.40	8.40	4	0.86	0.86
700.0	29.69	*****	6.36	4.52	2	0.93	0.94
700.0	29.65	26.95	6.33	4.65	3	0.93	0.94
700.0	29.72	27.80	6.52	5.50	3	0.93	0.94
700.0	30.14	28.70	7.11	6.40	3	0.92	0.94
700.0	30.55	29.31	7.60	7.01	3	0.91	0.93
700.0	31.52	30.48	8.40	8.18	3	0.90	0.92
700.0	32.15	30.97	8.40	8.40	4	0.86	0.86
1000.0	31.95	*****	7.75	5.55	2	0.89	0.91
1000.0	31.84	28.70	7.83	6.40	3	0.89	0.91
1000.0	32.02	29.31	8.14	7.01	3	0.89	0.91
1000.0	32.78	30.48	8.40	8.18	3	0.87	0.89
1000.0	33.38	30.97	8.40	8.40	4	0.86	0.86
1300.0	TYPE.. 2	ENERGY EQUATIONS NOT BALANCED					
1300.0	35.04	30.97	8.40	8.40	4	0.86	0.86
2060.0	TYPE.. 2	ENERGY EQUATIONS NOT BALANCED					
2060.0	41.73	*****	*****	*****	5	0.55	0.55
2060.0	39.14	*****	*****	*****	6	0.86	0.86
2060.0	41.19	30.97	8.40	8.40	4	0.86	0.86

BJONE CREEK

CUL G-H

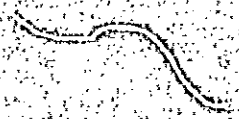
BASE ELEVATION = 22.30

Z = -0.20

	ELEV H1	ELEV H4	D2	D3	TYPE	C	C ADJUSTED
0							
2380.0	46.34	*****	*****	*****	5	0.58	0.58
2380.0	42.26	*****	*****	*****	6	0.86	0.86
2380.0	44.62	30.97	8.40	8.40	4	0.86	0.86
3290.0	62.51	*****	*****	*****	5	0.62	0.62
3290.0	53.42	*****	*****	*****	6	0.86	0.86
3290.0	57.04	30.97	8.40	8.40	4	0.86	0.86

BOONIE CREEK SECTION DB
100 & 500 FWHL

BOONE CREEK SECTION DG
100 & 500 FINAL



2

*** INPUT CARD PRINTOUT ***

.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0

	1	2	3	4	5	6	7	8
1	BOONE CREEK 100&500YR PROFILES UP&DOWNST D-G 9 4 02 05 12							
2	2	312446	312592	-99999	-99999			
3	400 D	1	21	3	3119	1565	99	99
4	401	3090	4190	3090	4190			
5	403	0	1	31305	16	1	31234	40
5	404	163	1	31200	200	1	31192	219
5	405	225	2	31178	232	2	31181	237
5	406	260	3	31203	300	3	31202	400
5	407	540	3	31310		3	31206	500
6	409	1	2	060 060	2	3	050 040	1
3	415 D+.6	1	21	3	3120	1775	99	99
4	416	2380	3290	2380	3290			
5	418	0	1	31311	16	1	31240	40
5	419	163	1	31206	200	1	31198	218
5	420	225	2	31184	232	2	31187	237
5	421	260	3	31209	300	3	31192	240
5	422	540	3	31316		3	31208	400
6	425	1	2	060 060	2	3	050 040	1
3	440 E-.6	0	26	3	3122	1948	99	99
5	443	0	1	31306	30	1	31228	40
5	444	120	1	31250	130	1	31227	100
5	445	179	2	31231	183	2	31228	100
5	446	202	2	31192	204	2	31227	150
5	447	300	3	31258	350	3	31228	100
5	448	595	3	31304		3	31227	150
6	450	1	2	060 060	4	5	045 050	1
3	480 E-PEG	0	26	3	3122	2160	99	99
5	483	0	1	31312	30	1	31293	60
5	484	133	1	31274	133	1	31298	31
5	485	179	2	31237	183	2	31293	60
5	486	202	2	31198	204	2	31292	100
5	487	300	3	31234	350	3	31292	100
5	488	595	3	31310		3	31292	100
6	490	1	2	060 060	4	5	045 050	1
3	500 E-TW	0	26	3	3122	2165	99	99
5	503	0	1	31312	30	1	31299	60
5	504	133	1	31274	133	1	31299	60
5	505	179	2	31237	183	2	31299	60
5	506	202	2	31198	204	2	31292	100
5	507	300	3	31264	350	3	31292	100
5	508	595	3	31310		3	31292	100
6	510	1	2	060 060	4	5	045 050	1
3	600 BR-EF	0	17	3	3121	2179	99	99
5	603	0	1	31311	100	1	31299	60
5	604	201	2	31199	206	2	31292	100

BOONE CREEK 100 & 500 YEAR PROFILES UP&DOWNST

NAME: [unclear]
NO. [unclear]

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 2, DATE= 7/28/77

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8			
.....	5.....	0.....	5.....	0.....	5.....	0.....	5.....	0.....			
5	605	222	3 31278	300	3 31277	350	3 31273	450	3 31261	550	3 31260
5	606	610	3 31260	610	3 31320						
6	609	1	2 035 035	1	2 050 050	1	2 035 035				
3	625	AP-EF	0 32	3 3122	2199	99 99					
5	627	0	1 31312	14	1 31303	15	1 31298	50	1 31297	100	1 31299
5	628	166	2 31288	169	2 31284	179	2 31226	183	2 31215	185	2 31200
5	629	192	2 31193	196	2 31197	198	2 31200	202	3 31252	238	3 31261
5	630	265	3 31271	291	3 31272	317	3 31273	343	3 31274	361	3 31278
5	631	362	3 31278	384	3 31279	392	3 31279	392	3 31285	400	3 31285
5	632	419	3 31283	451	3 31285	459	3 31278	500	3 31280	550	3 31281
5	633	598	3 31285	620	3 31312						
6	635	1	2 035 035	1	2 045 045	1	2 035 035				
3	700	F-APP	0 32	3 3122	2232	99 99					
5	703	0	1 31315	14	1 31306	15	1 31301	50	1 31300	100	1 31302
5	704	166	2 31291	169	2 31287	179	2 31226	183	2 31215	185	2 31200
5	705	192	2 31193	196	2 31197	198	2 31200	202	3 31255	238	3 31264
5	706	265	3 31274	265	3 31330	343	3 31330	343	3 31277	361	3 31281
5	707	362	3 31281	384	3 31282	392	3 31282	392	3 31288	400	3 31288
5	708	419	3 31286	451	3 31288	459	3 31281	500	3 31283	550	3 31284
5	709	598	3 31288	620	3 31315						
6	710	1	2 035 035	1	2 045 045	1	2 035 035				
3	800	G	0 15	2 3124	2465	99 99					
5	803	0	1 31350	0	1 31223	8	1 31222	13	1 31220	17	1 31234
5	804	18	1 31235	20	1 31266	30	2 31276	50	2 31278	75	2 31279
5	805	125	2 31291	175	2 31310	193	2 31320	216	2 31320	251	2 31349
6	809	1	2 065 065	1	2 080 080						

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 3, DATE= 7/28/77

INPUT SUMMARY FOR: BOONE CREEK 100&500YR PROFILES UP&DOWNST D-6

9 CROSS SECTIONS SPECIFIED (OR ASSUMED)

FOUND 9 TYPE 3 CARDS

KEPT 9 CROSS SECTIONS FOR EDITING

9 " " VALID FOR PROPERTY COMPUTATIONS

9 " " " " PROFILE "

CROSS-SECTION PROPERTIES FOR: BOONE CREEK 100&500YR PROFILES UP&DOWNST D-G
 SECID=D AT DISTANCE= 1565 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3119.0	19	482	1.00	23	23	218	241	96
3119.5	40	1146	1.31	56	56	186	242	165
3120.0	74	2303	1.44	80	81	163	243	352
3120.5	144	4492	1.74	233	234	142	375	487
3121.0	291	10045	1.81	351	352	129	480	1119
3121.5	493	20151	1.62	424	425	116	540	2365
3122.0	708	35361	1.33	437	439	103	540	4441
3122.5	950	54880	1.32	506	508	34	540	6431
3123.0	1206	80173	1.27	516	518	24	540	9271
3123.5	1466	108676	1.25	524	527	16	540	12433
3124.0	1729	141206	1.23	525	529	15	540	16024
3124.5	1992	177121	1.22	526	531	14	540	19894
3125.0	2255	216257	1.21	528	532	12	540	24024
3125.5	2519	258478	1.21	529	534	11	540	28401
3126.0	2784	303666	1.20	530	536	10	540	33012
3126.5	3049	351719	1.20	531	538	9	540	37845
3127.0	3315	402545	1.20	532	539	8	540	42892
3127.5	3581	456065	1.20	533	541	7	540	48144
3128.0	3848	512205	1.19	534	543	6	540	53595
3128.5	4116	570900	1.19	535	545	5	540	59237
3129.0	4384	632090	1.19	537	546	3	540	65064
3129.5	4652	695717	1.19	538	548	2	540	71072
3130.0	4921	761732	1.19	539	550	1	540	77256
3130.5	5191	830089	1.19	540	551	0	540	83610
3131.0	5461	901191	1.19	540	552	0	540	90265

CROSS-SECTION PROPERTIES FOR: BOONE CREEK 100&500YR PROFILES UP&DOWNST D-G
 SECID=D+.6 AT DISTANCE= 1775 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
3120.0	34	977	1.25	51	51	191	242	142
3120.5	66	2026	1.43	75	76	168	243	292
3121.0	122	3809	1.65	205	206	145	350	416
3121.5	257	8633	1.81	328	329	132	460	958
3122.0	451	17753	1.71	422	422	118	540	2019
3122.5	665	31882	1.37	435	436	105	540	3989
3123.0	900	50044	1.34	504	506	36	540	5894
3123.5	1154	74947	1.28	514	516	26	540	8682
3124.0	1414	102605	1.26	524	527	16	540	11752
3124.5	1676	134436	1.24	525	529	15	540	15284
3125.0	1939	169690	1.22	526	530	14	540	19100
3125.5	2203	208195	1.21	527	532	13	540	23180
3126.0	2467	249810	1.21	529	534	11	540	27509

CROSS-SECTION PROPERTIES FOR: BOONE CREEK 100&500YR PROFILES UP&DOWNST D-G
 SECID=D+.6 AT DISTANCE= 1775 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
3126.5	2731	294414	1.20	530	536	10	540	32074
3127.0	2996	341903	1.20	531	537	9	540	36863
3127.5	3262	392182	1.20	532	539	8	540	41868
3128.0	3528	445171	1.20	533	541	7	540	47080
3128.5	3795	500793	1.19	534	542	6	540	52492
3129.0	4062	558984	1.19	535	544	5	540	58096
3129.5	4330	619679	1.19	536	546	4	540	63887
3130.0	4599	682825	1.19	538	548	2	540	69859
3130.5	4868	748367	1.19	539	549	1	540	76008
3131.0	5137	816258	1.19	540	551	0	540	82329
3131.5	5407	886820	1.19	540	552	0	540	88924
3131.6	5461	901190	1.19	540	552	0	540	90266

CROSS-SECTION PROPERTIES FOR: BOONE CREEK 100&500YR PROFILES UP&DOWNST D-G
 SECID=E-.6 AT DISTANCE= 1948 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3122.0	57	3097	1.00	25	27	181	206	484
3122.5	70	4136	1.00	28	30	180	208	634
3123.0	85	5470	1.00	30	32	179	209	805
3123.5	100	7026	1.01	32	35	178	211	995
3124.0	117	8776	1.02	35	37	178	212	1207
3124.5	144	10492	1.10	126	129	177	595	802
3125.0	270	14393	1.96	321	325	120	595	1002
3125.5	447	22268	1.91	388	392	113	595	1971
3126.0	664	33825	1.75	488	493	107	595	3329
3126.5	910	56621	1.29	495	500	100	595	6159
3127.0	1160	89874	1.14	505	510	90	595	9328
3127.5	1415	122677	1.13	514	520	81	595	12522
3128.0	1674	159943	1.13	524	530	71	595	15955
3128.5	1938	201463	1.14	533	540	62	595	19621
3129.0	2209	246360	1.16	552	559	43	595	23250
3129.5	2489	296012	1.18	564	573	31	595	27307
3130.0	2772	349875	1.19	573	581	22	595	31719
3130.5	3063	406417	1.21	591	601	4	595	35920
3130.6	3123	418186	1.22	595	604	0	595	36784

CROSS-SECTION PROPERTIES FOR: BOONE CREEK 100&500YR PROFILES UP&DOWNST D-G
 SECID=E-REG AT DISTANCE= 2160 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3122.0	43	2065	1.00	23	24	182	204	331
3122.5	54	2909	1.00	25	27	181	206	456
3123.0	67	3914	1.00	27	29	180	207	602
3123.5	82	5182	1.00	30	32	179	209	769
3124.0	97	6719	1.01	32	34	179	210	958
3124.5	113	8456	1.02	33	36	179	212	1170
3125.0	133	10047	1.09	80	83	178	595	926
3125.5	223	12929	1.72	252	256	178	595	911
3126.0	364	19189	1.75	311	316	178	595	1687
3126.5	537	27961	1.70	418	423	177	595	2650
3127.0	746	46861	1.22	418	424	177	595	5117
3127.5	968	76485	1.05	466	473	92	595	7702
3128.0	1203	107475	1.05	475	484	83	595	10576
3128.5	1443	141883	1.07	485	495	73	595	13678
3129.0	1687	180465	1.08	494	506	64	595	17013
3129.5	1938	222861	1.10	510	524	48	595	20419
3130.0	2198	269266	1.12	527	542	31	595	24036
3130.5	2462	319898	1.14	532	548	26	595	28191
3131.0	2733	373514	1.16	551	569	7	595	32092
3131.5	3011	431602	1.17	558	578	0	595	36622
3132.0	3290	493711	1.18	558	580	0	595	41668
3132.5	3569	559212	1.19	558	582	0	595	46935
3133.0	3848	627989	1.20	558	584	0	595	52415
3133.5	4127	699936	1.20	558	586	0	595	58098
3134.0	4406	774959	1.20	558	588	0	595	63974
3134.5	4685	852972	1.21	558	590	0	595	70037
3135.0	4964	933894	1.21	558	592	0	595	76281

CROSS-SECTION PROPERTIES FOR: BOONE CREEK 100&500YR PROFILES UP&DOWNST D-G
 SECID=E-TW AT DISTANCE= 2165 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
3122.0	43	2065	1.00	23	24	182	204	331
3122.5	54	2909	1.00	25	27	181	206	456
3123.0	67	3914	1.00	27	29	180	207	602
3123.5	82	5182	1.00	30	32	179	209	769
3124.0	97	6719	1.01	32	34	179	210	958
3124.5	113	8456	1.02	33	36	179	212	1170
3125.0	133	10047	1.09	80	83	178	595	926
3125.5	223	12929	1.72	252	256	178	595	911
3126.0	364	19189	1.75	311	316	178	595	1687
3126.5	537	27961	1.70	418	423	177	595	2650
3127.0	746	46861	1.22	418	424	177	595	5117

CROSS-SECTION PROPERTIES FOR: BOONE CREEK 100&500YR PROFILES UP&DOWNST D-G
 SECID=E-TW AT DISTANCE= 2165 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
3127.5	968	76485	1.05	466	473	92	595	7702
3128.0	1203	107475	1.05	475	484	83	595	10576
3128.5	1443	141883	1.07	485	495	73	595	13678
3129.0	1687	180465	1.08	494	506	64	595	17013
3129.5	1938	222861	1.10	510	524	48	595	20419
3130.0	2198	269266	1.12	527	542	31	595	24036
3130.5	2462	319898	1.14	532	548	26	595	28191
3131.0	2733	373514	1.16	551	569	7	595	32092
3131.5	3011	431602	1.17	558	578	0	595	36622
3132.0	3290	493711	1.18	558	580	0	595	41668
3132.5	3569	559212	1.19	558	582	0	595	46935
3133.0	3848	627989	1.20	558	584	0	595	52415
3133.5	4127	699936	1.20	558	586	0	595	58098
3134.0	4406	774959	1.20	558	588	0	595	63974
3134.5	4685	852972	1.21	558	590	0	595	70037
3135.0	4964	933894	1.21	558	592	0	595	76281

CROSS-SECTION PROPERTIES FOR: BOONE CREEK 100&500YR PROFILES UP&DOWNST D-G
 SECID=BR-EF AT DISTANCE= 2179 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
3121.0	23	681	1.00	23	24	199	222	133
3121.5	35	1292	1.00	23	25	199	222	243
3122.0	46	2026	1.00	23	26	199	222	373
3122.5	58	2859	1.00	23	27	199	222	520
3123.0	69	3775	1.00	23	28	199	222	683
3123.5	81	4763	1.00	23	29	199	222	859
3124.0	92	5813	1.00	23	30	199	222	1049
3124.5	104	6916	1.00	23	31	199	222	1251
3125.0	115	8068	1.00	23	32	199	222	1465
3125.5	127	9261	1.00	23	33	199	222	1689
3126.0	138	10492	1.00	23	34	199	222	1924
3126.5	232	13715	1.53	216	229	199	610	1099
3127.0	350	19983	1.46	258	272	199	610	1917
3127.5	491	28863	1.30	308	324	199	610	3083
3128.0	676	40132	1.25	428	444	182	610	4316
3128.5	900	60247	1.12	469	486	141	610	6686
3129.0	1145	85155	1.08	510	528	100	610	9356
3129.5	1406	115073	1.07	534	552	76	610	12522
3130.0	1679	149676	1.07	558	576	52	610	16001
3130.5	1963	188918	1.07	581	601	29	610	19797
3131.0	2260	232789	1.07	605	625	5	610	23900
3131.5	2565	282799	1.07	610	631	0	610	28872

CROSS-SECTION PROPERTIES FOR: BOONE CREEK 100&500YR PROFILES UP&DOWNST D-G
 SECID=BR-EF AT DISTANCE= 2179 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
3132.0	2870	337621	1.06	610	632	0	610	34307

CROSS-SECTION PROPERTIES FOR: BOONE CREEK 100&500YR PROFILES UP&DOWNST D-G
 SECID=AP-EF AT DISTANCE= 2199 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3122.0	35	1705	1.00	18	20	181	200	277
3122.5	45	2364	1.00	21	23	179	200	377
3123.0	56	3203	1.00	22	24	178	200	502
3123.5	67	4175	1.00	23	26	177	201	645
3124.0	79	5269	1.00	24	28	177	201	804
3124.5	91	6486	1.00	26	29	176	201	978
3125.0	105	7829	1.00	27	31	175	202	1169
3125.5	120	9390	1.02	40	44	174	214	1166
3126.0	145	11385	1.11	61	65	173	234	1209
3126.5	180	14047	1.18	77	81	172	249	1440
3127.0	222	17454	1.21	91	95	171	262	1786
3127.5	289	21001	1.46	177	182	171	348	1732
3128.0	391	26828	1.61	266	270	170	500	2120
3128.5	563	35605	1.74	422	427	168	598	2791
3129.0	781	52784	1.40	448	454	154	602	4940
3129.5	1013	75674	1.24	482	488	124	606	7478
3130.0	1281	103383	1.19	596	601	15	610	9761
3130.5	1581	137655	1.15	603	609	11	614	13522
3131.0	1885	177250	1.12	615	621	3	618	17708
3131.2	2009	194511	1.11	620	626	0	620	19498

CROSS-SECTION PROPERTIES FOR: BOONE CREEK 100&500YR PROFILES UP&DOWNST D-G
 SECID=F-APP AT DISTANCE= 2232 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
3122.0	35	1701	1.00	18	20	181	199	277
3122.5	45	2357	1.00	20	22	179	200	377
3123.0	55	3193	1.00	22	24	178	200	502
3123.5	67	4161	1.00	23	26	178	201	644
3124.0	78	5248	1.00	24	27	177	201	802
3124.5	91	6455	1.00	25	29	176	201	976
3125.0	104	7784	1.00	27	31	175	202	1165
3125.5	117	9237	1.00	28	32	174	202	1371
3126.0	137	11023	1.05	49	53	173	222	1265
3126.5	166	13320	1.14	68	73	173	241	1374

CROSS-SECTION PROPERTIES FOR: BOONE CREEK 100&500YR PROFILES UP&DOWNST D-G
 SECID=F-APP AT DISTANCE= 2232 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
3127.0	204	16332	1.20	82	87	172	254	1658
3127.5	248	20198	1.21	94	99	171	265	2084
3128.0	298	24615	1.21	108	114	170	357	2543
3128.5	386	27995	1.61	252	260	169	562	2134
3129.0	543	36781	1.64	355	364	167	600	2983
3129.5	727	52552	1.40	384	394	142	604	4798
3130.0	927	72470	1.27	418	429	112	608	6950
3130.5	1178	97147	1.24	520	532	14	612	9036
3131.0	1440	127239	1.19	530	543	8	616	12370
3131.5	1708	161813	1.14	542	556	0	620	16102
3132.0	1979	201788	1.10	542	558	0	620	20427
3132.5	2250	245776	1.08	542	560	0	620	25072
3133.0	2521	293534	1.06	542	562	0	620	30001

CROSS-SECTION PROPERTIES FOR: BOONE CREEK 100&500YR PROFILES UP&DOWNST D-G
 SECID=G AT DISTANCE= 2465 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3124.0	29	854	1.00	18	21	0	18	211
3124.5	39	1301	1.00	19	22	0	19	315
3125.0	48	1811	1.00	19	23	0	19	433
3125.5	58	2376	1.00	19	24	0	19	564
3126.0	67	2991	1.00	20	25	0	20	707
3126.5	77	3652	1.00	20	26	0	20	861
3127.0	88	4072	1.00	24	31	0	24	955
3127.5	101	4607	1.00	29	36	0	29	1073
3128.0	126	5705	1.14	79	87	0	79	846
3128.5	171	7354	1.38	100	108	0	100	1081
3129.0	226	9497	1.52	121	130	0	121	1421
3129.5	291	12248	1.57	136	145	0	136	1928
3130.0	362	15562	1.55	149	158	0	149	2567
3130.5	439	19441	1.52	162	172	0	162	3332
3131.0	524	23909	1.48	175	186	0	175	4228
3131.5	613	29166	1.41	184	195	0	184	5341
3132.0	708	35024	1.36	193	205	0	193	6588
3132.5	817	40574	1.39	222	234	0	222	7543
3133.0	930	48324	1.32	228	241	0	228	9256
3133.5	1045	56763	1.27	234	247	0	234	11115
3134.0	1164	65883	1.23	240	254	0	240	13111
3134.5	1285	75679	1.19	246	261	0	246	15239
3135.0	1410	86340	1.17	251	266	0	251	17559

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8
.....5.....	0.....	5.....	0.....	5.....	0.....	5.....	0.....	5.....
7 10000				0 0 2 2				
8 10001				0 0 0 0				

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK 100&500YR PROFILES UP&DOWNST D-6
PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECID: ERROR(WARNING) MESSAGE: INTERMEDIATE RESULTS(IF ANY): ACTION TAKEN

E-.6 : WS NOT FOUND BETWEEN

: WS = 3124.28 & WS = 3130.60:

USED DEL = 0.25

E-.6 : WS NOT FOUND BETWEEN

: WS = 3124.28 & WS = 3130.60:

USED WSMIN = WSC

E-.6 : WS NOT FOUND

ASSUMED WS = WSC

E-REG: KU/KD < 0.7 OR > 1.4

ALERTED USER

BR-EF: KU/KD < 0.7 OR > 1.4

ALERTED USER

AP-EF: WS NOT FOUND BETWEEN

: WS = 3126.84 & WS = 3131.20:

USED DEL = 0.25

AP-EF: WS NOT FOUND BETWEEN

: WS = 3126.84 & WS = 3131.20:

USED WSMIN = WSC

AP-EF: WS NOT FOUND

ASSUMED WS = WSC

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100 yr

USE

WATER-SURFACE PROFILE FOR: BOONE CREEK 100&500YR PROFILES UP&DOWNST D-6
PAGE 1 OF 1, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW	WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID
D	AT	1565	0	3090.	1971.	174124.	1.22	14.	540.	3124.46	0.05			3124.51	1.57	0.17		*IS*
D+.6	AT	1775	210	2380.	1695.	136789.	1.23	15.	540.	3124.53	0.04	0.07	0.0	3124.57	1.40	0.16	-0.000	*XS*
E-.6	AT	1948	173	2380.	540.	27298.	1.81	110.	595.	3125.73	0.55	*****	*****	3126.28	4.40	0.58	*****	*XS*
E-REG	AT	2160	212	2380.	752.	47556.	1.21	177.	595.	3127.01	0.19	0.93	0.0	3127.20	3.16	0.39	0.001	*XS*
E-TW	AT	2165	5	2380.	752.	47556.	1.21	177.	595.	3127.01	0.19	0.01	0.0	3127.20	3.15	0.39	-0.013	*XS*
BR-EF	AT	2179	14	2380.	375.	21454.	1.42	199.	610.	3127.09	0.89	0.08	0.70	3127.99	6.36	0.60	0.000	*XS*
AP-EF	AT	2199	20	2380.	341.	24786.	1.44	170.	360.	3127.78	1.09	*****	*****	3128.87	6.98	0.69	*****	*XS*
F-APP	AT	2232	33	2380.	301.	24934.	1.21	170.	358.	3128.03	1.18	0.30	0.04	3129.21	7.90	0.68	-0.009	*XS*
G	AT	2465	233	2380.	518.	23605.	1.48	0.	174.	3130.97	0.49	2.24	0.0	3131.45	4.59	0.46	-0.000	*XS*

END OF THIS PROFILE

OK

OK

USE

Profile smoothed in this reach

OK

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COMPUTED WSC VALUES FOR: BOONE CREEK 100&500YR PROFILES UP&DOWNST D-G
PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECID E-.6 AP-EF
WSC 3125.73 3127.78

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK 100&500YR PROFILES UP&DOWNST D-0
PROFILE NUMBER 2, UPSTREAM COMPUTATIONS

SECID: ERROR(WARNING) MESSAGE: INTERMEDIATE RESULTS(IF ANY): ACTION TAKEN

E-.6 : KU/KD < 0.7 OR > 1.4

ALERTED USER

E-REG: KU/KD < 0.7 OR > 1.4

ALERTED USER

BR-EF: KU/KD < 0.7 OR > 1.4

ALERTED USER

AP-EF: WS NOT FOUND BETWEEN

: WS = 3127.20 & WS = 3131.20:

USED DEL = 0.25

AP-EF: WS NOT FOUND BETWEEN

: WS = 3127.20 & WS = 3131.20:

USED WSMIN = WSC

AP-EF: WS NOT FOUND

ASSUMED WS = WSC /

F-APP: WS NOT FOUND BETWEEN

: WS = 3128.52 & WS = 3133.00:

USED DEL = 0.25

F-APP: WS NOT FOUND BETWEEN

: WS = 3128.52 & WS = 3133.00:

USED WSMIN = WSC

F-APP: WS NOT FOUND

ASSUMED WS = WSC ✓

G : KU/KD < 0.7 OR > 1.4

ALERTED USER

WATER-SURFACE PROFILE FOR: BOONE CREEK 100&500YR PROFILES UP&DOWNST D-6
 PAGE 1 OF 1, PROFILE NUMBER 2, UPSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID	
D	AT	1565	0	4190.	2741.	296234.	1.20	10.	540.
3125.92		0.04			3125.96	1.53	0.14		*IS*
D+.6	AT	1775	210	3290.	2451.	247225.	1.21	12.	540.
3125.97		0.03	0.04	0.0	3126.00	1.34	0.13		*XS*
E-.6	AT	1948	173	3290.	697.	36352.	1.67	106.	595.
3126.07		0.58	0.21	0.43	3126.64	4.72	0.62		*XS*
E-REG	AT	2150	212	3290.	905.	67186.	1.08	95.	595.
3127.37		0.22	0.94	0.0	3127.59	3.64	0.44		*XS*
E-TW	AT	2165	5	3290.	905.	67186.	1.08	95.	595.
3127.37		0.22	0.01	0.0	3127.59	3.64	0.44		*XS*
BR-EF	AT	2179	14	3290.	474.	27812.	1.31	199.	610.
3127.45		0.98	0.08	0.76	3128.43	6.94	0.63		*XS*
AP-EF	AT	2199	20	3290.	679.	43844.	1.53	166.	600.
3128.77		0.56	*****	*****	3129.33	4.85	0.54		*XS*
F-APP	AT	2232	33	3290.	614.	42402.	1.52	160.	601.
3129.20		0.68	*****	*****	3129.88	5.36	0.56		*XS*
G	AT	2465	233	3290.	587.	27566.	1.43	0.	181.
3131.35		0.70	2.16	0.01	3132.05	5.61	0.54		*XS*

END OF THIS PROFILE

Note: Profile smoothed in this reach. Shape of channel and overflow & supercritical

flow make calculations marginal.

*WES
USC
USGS 3126.07*

*USGS 3129.1
WSA 3129.1*

*USGS 3129.3
WGA 3129.36*

USGS 3129.3

*SEB Downstream
Computations*

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 16, DATE= 7/28/77

COMPUTED WSC VALUES FOR: BOONE CREEK 100&500YR PROFILES UP&DOWNST D-G
PROFILE NUMBER 2, UPSTREAM COMPUTATIONS

SECID AP-EF F-APP
WSC 3128.77 3129.20

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 17, DATE= 7/28/77

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK 100&500YR PROFILES UP&DOWNST D-6
PROFILE NUMBER 3, DOWNSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

G	; WS TOO LOW				ASSUMED WS = WSC
F-APP	; WS NOT FOUND BETWEEN				
		; WS = 3127.70	& WS = 3119.50;		USED DEL = 0.25
F-APP	; WS NOT FOUND BETWEEN				
		; WS = 3127.70	& WS = 3119.50;		USED KE = 0.5
F-APP	; WS NOT FOUND				ASSUMED WS = WSC
AP-EF	; WS NOT FOUND BETWEEN				
		; WS = 3127.78	& WS = 3119.50;		USED DEL = 0.25
AP-EF	; WS NOT FOUND BETWEEN				
		; WS = 3127.78	& WS = 3119.50;		USED KE = 0.5
AP-EF	; WS NOT FOUND				ASSUMED WS = WSC
BR-EF	; KU/KD < 0.7 OR > 1.4				ALERTED USER
BR-EF	; SUPERCRITICAL WS				COMPUTED WSA
E-TW	; SUPERCRITICAL WS				COMPUTED WSA
E-REG	; SUPERCRITICAL WS				COMPUTED WSA
E-.6	; WS NOT FOUND BETWEEN				
		; WS = 3125.73	& WS = 3119.00;		USED DEL = 0.25
E-.6	; WS NOT FOUND BETWEEN				
		; WS = 3125.73	& WS = 3119.00;		USED KE = 0.5
E-.6	; WS NOT FOUND				ASSUMED WS = WSC
D+.6	; KU/KD < 0.7 OR > 1.4				ALERTED USER
D+.6	; SUPERCRITICAL WS				COMPUTED WSA
D	; WS NOT FOUND BETWEEN				
		; WS = 3121.80	& WS = 3117.90;		USED DEL = 0.25
D	; WS NOT FOUND BETWEEN				
		; WS = 3121.80	& WS = 3117.90;		USED KE = 0.5
D	; WS NOT FOUND				ASSUMED WS = WSC

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 18, DATE= 7/28/77

100 YR
WATER-SURFACE PROFILE FOR: BOONE CREEK 100&500YR PROFILES UP&DOWNST D-G
PAGE 1 OF 1, PROFILE NUMBER 3, DOWNSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW	WS-ELEV	HV	HF	HE	EG	V	FN	ACC	ID
G	AT	2465	/	0	/	2380.	/	348.	/	14888.	/	1.56	/	0.	/	146.		
		3129.90	/	1.14	/		/	3131.04	/	6.85	/	0.98	/		/			*IS*
F-APP	AT	2232	/	-233	/	2380.	/	267.	/	22116.	/	1.18	/	171.	/	343.		
		3127.70	/	1.46	/	*****	/	*****	/	3129.16	/	8.90	/	1.01	/	*****		*XS*
AP-EF	AT	2199	/	-33	/	2380.	/	341.	/	24786.	/	1.44	/	170.	/	360.		
		3127.78	/	1.09	/	*****	/	*****	/	3128.87	/	6.98	/	1.10	/	*****		*XS*
BR-EF	AT	2179	/	-20	/	2380.	/	266.	/	15375.	/	1.54	/	199.	/	610.		
		3126.66	/	1.91	/	0.30	/	0.0	/	3128.57	/	8.93	/	1.81	/	0.004		*XS*
E-TW	AT	2165	/	-14	/	2380.	/	244.	/	13713.	/	1.76	/	178.	/	595.		
		3125.58	/	2.61	/	0.38	/	0.0	/	3128.19	/	9.75	/	2.36	/	0.003		*XS*
E-REG	AT	2160	/	-5	/	2380.	/	255.	/	14168.	/	1.78	/	178.	/	595.		
		3125.62	/	2.40	/	0.15	/	0.0	/	3128.03	/	9.32	/	2.24	/	0.017		*XS*
E-.6	AT	1948	/	-212	/	2380.	/	540.	/	27298.	/	1.81	/	110.	/	595.		
		3125.73	/	0.55	/	*****	/	*****	/	3126.28	/	4.40	/	0.92	/	*****		*XS*
D+.6	AT	1775	/	-173	/	2380.	/	327.	/	11617.	/	1.80	/	126.	/	500.		
		3121.70	/	1.48	/	3.09	/	0.0	/	3123.18	/	7.27	/	1.84	/	0.006		*XS*
D	AT	1565	/	-210	/	3090.	/	621.	/	28558.	/	1.42	/	108.	/	540.		
		3121.80	/	0.55	/	*****	/	*****	/	3122.34	/	4.98	/	0.87	/	*****		*XS*

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 19, DATE= 7/28/77

COMPUTED WSC VALUES FOR: BOONE CREEK 100&500YR PROFILES UP&DOWNST D-G
PROFILE NUMBER 3, DOWNSTREAM COMPUTATIONS

SECID	D	D+.6	E-.6	E-REG	E-TW	BR-EF	AP-EF	F-APP
WSC	3121.80	3122.20	3125.73	3126.40	3126.40	3127.29	3127.78	3127.70

SECID	G
WSC	3129.90

COMPUTED WSA VALUES FOR: BOONE CREEK 100&500YR PROFILES UP&DOWNST D-G
PROFILE NUMBER 3, DOWNSTREAM COMPUTATIONS

SECID	D+.6	E-REG	E-TW	BR-EF
WSA	3123.05	3127.96	3128.13	3128.45

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK 100&500YR PROFILES UP&DOWNST D-0
 PROFILE NUMBER 4, DOWNSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

G	; WS TOO LOW		ASSUMED WS = WSC
F-APP	; WS NOT FOUND BETWEEN	; WS = 3129.20 & WS = 3119.50	USED DEL = 0.25
F-APP	; WS NOT FOUND BETWEEN	; WS = 3129.20 & WS = 3119.50	USED KE = 0.5
F-APP	; WS NOT FOUND		ASSUMED WS = WSC
AP-EF	; KU/KD < 0.7 OR > 1.4		ALERTED USER
AP-EF	; SUPERCRITICAL WS		COMPUTED WSA
BR-EF	; KU/KD < 0.7 OR > 1.4		ALERTED USER
BR-EF	; SUPERCRITICAL WS		COMPUTED WSA
E-TW	; KU/KD < 0.7 OR > 1.4		ALERTED USER
E-TW	; SUPERCRITICAL WS		COMPUTED WSA
E-.6	; WS NOT FOUND BETWEEN	; WS = 3126.16 & WS = 3119.00	USED DEL = 0.25
E-.6	; WS NOT FOUND BETWEEN	; WS = 3126.16 & WS = 3119.00	USED KE = 0.5
E-.6	; WS NOT FOUND		ASSUMED WS = WSC
D+.6	; KU/KD < 0.7 OR > 1.4		ALERTED USER
D+.6	; SUPERCRITICAL WS		COMPUTED WSA
D	; WS NOT FOUND BETWEEN	; WS = 3122.03 & WS = 3117.90	USED DEL = 0.25
D	; WS NOT FOUND BETWEEN	; WS = 3122.03 & WS = 3117.90	USED KE = 0.5
D	; WS NOT FOUND		ASSUMED WS = WSC

WATER-SURFACE PROFILE FOR: BOONE CREEK 100&500YR PROFILES UP&DOWNST D-6
 PAGE 1 OF 1, PROFILE NUMBER 4, DOWNSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID	
G	AT	2465	0	3290.	448.	19871.	1.51	0.	163.
3130.55	1.27			3131.82	7.35	0.96			*IS*
F-APP	AT	2232	-233	3290.	614.	42402.	1.52	160.	601.
3129.20	0.68	*****	*****	3129.88	5.36	0.89	*****		*XS*
AP-EF	AT	2199	-33	3290.	452.	29847.	1.70	169.	562.
3128.20	1.40	0.28	0.0	3129.60	7.28	1.43	-0.009		*XS*
BR-EF	AT	2179	-20	3290.	331.	18843.	1.48	199.	610.
3126.92	2.28	0.38	0.0	3129.21	9.95	1.86	0.011		*XS*
E-TW	AT	2165	-14	3290.	614.	33792.	1.50	177.	595.
3126.68	0.67	0.24	1.61	3127.35	5.36	0.95	-0.003		*XS*
E-REG	AT	2160	-5	3290.	667.	38660.	1.37	177.	595.
3126.81	0.52	0.04	0.0	3127.33	4.93	0.80	-0.018		*XS*
E-.6	AT	1948	-212	3290.	740.	39903.	1.57	105.	595.
3126.16	0.48	*****	*****	3126.64	4.44	0.80	*****		*XS*
D+.6	AT	1775	-177	3290.	415.	15748.	1.77	121.	540.
3121.91	1.74	2.98	0.0	3123.65	7.93	1.87	0.006		*XS*
D	AT	1565	-210	4190.	723.	36601.	1.31	102.	540.
3122.03	0.69	*****	*****	3122.72	5.79	0.91	*****		*XS*

END OF THIS PROFILE

COMPUTED WSC VALUES FOR: BOONE CREEK 100&500YR PROFILES UP&DOWNST D-G
PROFILE NUMBER 4, DOWNSTREAM COMPUTATIONS

SECID	D	D+.6	E-.6	E-REG	E-TV	BR-EF	AP-EF	F-APP
WSC	3122.03	3122.44	3126.16	3126.81	3126.81	3127.66	3128.77	3129.20

SECID	G
WSC	3130.55

COMPUTED WSA VALUES FOR: BOONE CREEK 100&500YR PROFILES UP&DOWNST D-G
PROFILE NUMBER 4, DOWNSTREAM COMPUTATIONS

SECID	D+.6	E-REG	E-TV	BR-EF	AP-EF
WSA	3123.48	3127.96	3126.95	3129.08	3129.36

HASP-II*A*RM89.PRI.....END JOB 1692.....9.02.29 AM 29 JUL 77.....BOX 0BU.....AG40BUBS.....STYRONRM89.PRI*A*HASP-II
HASP-II*A*RM89.PRI.....END JOB 1692.....9.02.29 AM 29 JUL 77.....BOX 0BU.....AG40BUBS.....STYRONRM89.PRI*A*HASP-II
HASP-II*A*RM89.PRI.....END JOB 1692.....9.02.29 AM 29 JUL 77.....BOX 0BU.....AG40BUBS.....STYRONRM89.PRI*A*HASP-II
HASP-II*A*RM89.PRI.....END JOB 1692.....9.02.29 AM 29 JUL 77.....BOX 0BU.....AG40BUBS.....STYRONRM89.PRI*A*HASP-II
HASP-II*A*RM89.PRI.....END JOB 1692.....9.02.29 AM 29 JUL 77.....BOX 0BU.....AG40BUBS.....STYRONRM89.PRI*A*HASP-II

D ; WS NOT FOUND BETWEEN

; WS = 3121.41 & WS = 3117.90

USED DEL = 0.25

D ; WS NOT FOUND BETWEEN

; WS = 3121.41 & WS = 3117.90

USED KE = 0.5

D ; WS NOT FOUND

ASSUMED WS = WSC

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COMPUTED WSC VALUES FOR: BOONE CREEK 10&50-YR PROFILES UP&DOWNST D-G
PROFILE NUMBER 4, DOWNSTREAM COMPUTATIONS

SECID	D	D+.6	E-.6	E-REG	E-TW	BR-EF	AP-EF	F-APP
WSC	3121.70	3122.09	3125.59	3126.25	3126.25	3127.17	3127.77	3127.60

SECID	G
WSC	3129.62

COMPUTED WSA VALUES FOR: BOONE CREEK 10&50-YR PROFILES UP&DOWNST D-G
PROFILE NUMBER 4, DOWNSTREAM COMPUTATIONS

SECID	D+.6	E-REG	E-TW	BR-EF
WSA	3122.92	3127.80	3127.94	3128.22

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 21 DATE= 8/ 5/77

WATER-SURFACE PROFILE FOR: BOONE CREEK 10&50-YR PROFILES UP&DOWNST D-G
PAGE 1 OF 1, PROFILE NUMBER 4, DOWNSTREAM COMPUTATIONS

```
=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
G AT 2465 / 0 / 2060. / 308. / 13015. / 1.57 / 0. / 139.
3129.62 / 1.09 / / / 3130.72 / 6.70 / 0.99 / *IS*
-----
F-APP AT 2232 / -233 / 2060. / 258. / 21123. / 1.19 / 171. / 265.
3127.60 / 1.19 / ***** / ***** / 3128.79 / 8.00 / 0.93 / ***** *XS*
-----
AP-EF AT 2199 / -33 / 2060. / 338. / 24566. / 1.44 / 170. / 360.
3127.77 / 0.83 / ***** / ***** / 3128.60 / 6.09 / 0.96 / ***** *XS*
-----
BR-EF AT 2179 / -20 / 2060. / 235. / 13863. / 1.53 / 199. / 610.
3126.52 / 1.83 / 0.25 / 0.0 / 3128.35 / 8.77 / 1.84 / 0.002 *XS*
-----
E-TW AT 2165 / -14 / 2060. / 205. / 12306. / 1.64 / 178. / 595.
3125.43 / 2.57 / 0.35 / 0.0 / 3127.99 / 10.03 / 2.44 / 0.006 *XS*
-----
E-REG AT 2160 / -5 / 2060. / 216. / 12681. / 1.69 / 178. / 595.
3125.47 / 2.38 / 0.14 / 0.0 / 3127.85 / 9.52 / 2.33 / 0.004 *XS*
-----
E-.6 AT 1948 / -212 / 2060. / 483. / 24167. / 1.87 / 112. / 595.
3125.59 / 0.53 / ***** / ***** / 3126.12 / 4.26 / 0.64 / ***** *XS*
-----
D+.6 AT 1775 / -173 / 2060. / 287. / 9870. / 1.81 / 129. / 478.
3121.59 / 1.45 / 3.08 / 0.0 / 3123.04 / 7.18 / 1.87 / 0.006 *XS*
-----
D AT 1565 / -210 / 2720. / 578. / 25542. / 1.48 / 111. / 540.
3121.70 / 0.51 / ***** / ***** / 3122.21 / 4.70 / 0.87 / ***** *XS*
=====
```

END OF THIS PROFILE

PAGE 1 OF PROFILE NOTES FOR: ROONE CREEK 10&50-YR PROFILES UP&DOWNST D-6
 PROFILE NUMBER 4, DOWNSTREAM COMPUTATIONS

SECID: ERROR(WARNING) MESSAGE: INTERMEDIATE RESULTS(IF ANY): ACTION TAKEN

G	: WS TOO LOW	:		:	ASSUMED WS = WSC
F-APP	: WS NOT FOUND BETWEEN	:		:	
		:	WS = 3127.60 & WS = 3119.50:	:	USED DEL = 0.25
F-APP	: WS NOT FOUND BETWEEN	:		:	
		:	WS = 3127.60 & WS = 3119.50:	:	USED KE = 0.5
F-APP	: WS NOT FOUND	:		:	ASSUMED WS = WSC
AP-EF	: WS NOT FOUND BETWEEN	:		:	
		:	WS = 3127.77 & WS = 3119.50:	:	USED DEL = 0.25
AP-EF	: WS NOT FOUND BETWEEN	:		:	
		:	WS = 3127.77 & WS = 3119.50:	:	USED KE = 0.5
AP-EF	: WS NOT FOUND	:		:	ASSUMED WS = WSC
BR-EF	: KU/KD < 0.7 OR > 1.4	:		:	ALERTED USER
BR-EF	: SUPERCRITICAL WS	:		:	COMPUTED WSA
E-TW	: SUPERCRITICAL WS	:		:	COMPUTED WSA
E-REG	: SUPERCRITICAL WS	:		:	COMPUTED WSA
E-.6	: WS NOT FOUND BETWEEN	:		:	
		:	WS = 3125.59 & WS = 3119.00:	:	USED DEL = 0.25
E-.6	: WS NOT FOUND BETWEEN	:		:	
		:	WS = 3125.59 & WS = 3119.00:	:	USED KE = 0.5
E-.6	: WS NOT FOUND	:		:	ASSUMED WS = WSC
D+.6	: KU/KD < 0.7 OR > 1.4	:		:	ALERTED USER
D+.6	: SUPERCRITICAL WS	:		:	COMPUTED WSA
D	: WS NOT FOUND BETWEEN	:		:	
		:	WS = 3121.70 & WS = 3117.90:	:	USED DEL = 0.25
D	: WS NOT FOUND BETWEEN	:		:	
		:	WS = 3121.70 & WS = 3117.90:	:	USED KE = 0.5
D	: WS NOT FOUND	:		:	ASSUMED WS = WSC

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 19, DATE= 8/ 5/77

COMPUTED WSC VALUES FOR: BOONE CREEK 10&50-YR PROFILES UP&DOWNST D-G
PROFILE NUMBER 3, DOWNSTREAM COMPUTATIONS

SECID	D	D+.6	E-.6	E-REG	E-TW	BR-EF	AP-EF	F-APP
WSC	3121.41	3121.70	3125.20	3125.80	3125.80	3124.62	3125.45	3125.33

SECID G
WSC 3128.63

COMPUTED WSA VALUES FOR: BOONE CREEK 10&50-YR PROFILES UP&DOWNST D-G
PROFILE NUMBER 3, DOWNSTREAM COMPUTATIONS

SECID D+.6
WSA 3122.63

10/2/77

E. SECTION 2 NOT RECORDED

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 18, DATE= 8/ 5/77

WATER-SURFACE PROFILE FOR: BOONE CREEK 10&50-YR PROFILES UP&DOWNST D-6
PAGE 1 OF 1, PROFILE NUMBER 3, DOWNSTREAM COMPUTATIONS

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=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
G AT 2465 / 0 / 1300. / 184. / 7846. / 1.42 / 0. / 105.
3128.63 / 1.10 / / 3129.73 / 7.07 / 1.12 / *IS*
-----
F-APP AT 2232 / -233 / 1300. / 113. / 8736. / 1.00 / 175. / 202.
3125.33 / 2.06 /***** /***** / 3127.40 / 11.52 / 1.00 /***** *XS*
-----
AP-EF AT 2199 / -33 / 1300. / 118. / 9201. / 1.02 / 174. / 212.
3125.45 / 1.92 /***** /***** / 3127.36 / 11.01 / 1.11 /***** *XS*
-----
BR-EF AT 2179 / -20 / 1300. / 107. / 7185. / 1.00 / 199. / 222.
3124.62 / 2.31 /***** /***** / 3126.93 / 12.20 / 1.00 /***** *XS*
-----
E-TW AT 2165 / -14 / 1300. / 303. / 16180. / 1.79 / 178. / 595.
3125.80 / 0.51 /***** /***** / 3126.31 / 4.29 / 0.99 /***** *XS*
-----
E-REG AT 2160 / -5 / 1300. / 303. / 16180. / 1.79 / 178. / 595.
3125.80 / 0.51 /***** /***** / 3126.31 / 4.29 / 0.99 /***** *XS*
-----
E-.6 AT 1948 / -212 / 1300. / 339. / 17103. / 2.01 / 117. / 595.
3125.20 / 0.46 /***** /***** / 3125.66 / 3.84 / 0.97 /***** *XS*
-----
D+.6 AT 1775 / -173 / 1300. / 182. / 5758. / 1.81 / 138. / 410.
3121.25 / 1.44 / 2.97 / 0.0 / 3122.69 / 7.15 / 2.07 / 0.008 *XS*
-----
D AT 1565 / -210 / 1780. / 453. / 17878. / 1.71 / 118. / 540.
3121.41 / 0.41 /***** /***** / 3121.82 / 3.93 / 0.87 /***** *XS*
=====

```

END OF THIS PROFILE

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK 10-YR PROFILES UP&DOWNST D-6
 PROFILE NUMBER 3, DOWNSTREAM COMPUTATIONS

SECID	ERROR (WARNING) MESSAGE	INTERMEDIATE RESULTS (IF ANY)	ACTION TAKEN
G	WS TOO LOW		ASSUMED WS = WSC
F-APP	WS NOT FOUND BETWEEN	WS = 3125.33 & WS = 3119.50	USED DEL = 0.25
F-APP	WS NOT FOUND BETWEEN	WS = 3125.33 & WS = 3119.50	USED KE = 0.5
F-APP	WS NOT FOUND		ASSUMED WS = WSC
AP-EF	WS NOT FOUND BETWEEN	WS = 3125.45 & WS = 3119.50	USED DEL = 0.25
AP-EF	WS NOT FOUND BETWEEN	WS = 3125.45 & WS = 3119.50	USED KE = 0.5
AP-EF	WS NOT FOUND		ASSUMED WS = WSC
BR-EF	WS NOT FOUND BETWEEN	WS = 3124.62 & WS = 3119.70	USED DEL = 0.25
BR-EF	WS NOT FOUND BETWEEN	WS = 3124.62 & WS = 3119.70	USED KE = 0.5
BR-EF	WS NOT FOUND		ASSUMED WS = WSC
E-TW	WS NOT FOUND BETWEEN	WS = 3125.80 & WS = 3119.60	USED DEL = 0.25
E-TW	WS NOT FOUND		ASSUMED WS = WSC
E-REG	WS NOT FOUND BETWEEN	WS = 3125.80 & WS = 3119.60	USED DEL = 0.25
E-REG	WS NOT FOUND BETWEEN	WS = 3125.80 & WS = 3119.60	USED KE = 0.5
E-REG	WS NOT FOUND		ASSUMED WS = WSC
E-.6	WS NOT FOUND BETWEEN	WS = 3125.20 & WS = 3119.00	USED DEL = 0.25
E-.6	WS NOT FOUND BETWEEN	WS = 3125.20 & WS = 3119.00	USED KE = 0.5
E-.6	WS NOT FOUND		ASSUMED WS = WSC
D+.6	KU/KL < 0.7 OR > 1.4		ALERT TO USER
D+.6	SUPERCritical WS		COMPUTED WSA

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 16 DATE= 8/ 5/77

COMPUTED WSC VALUES FOR BOONE CREEK 10&50-YR PROFILES UP&DOWNST 0-6
PROFILE NUMBER 2, UPSTREAM COMPUTATIONS

SECID E-6 AP-EE
WSC 3125.59 3127.77

W.C.

50 year USE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 15. DATE= 8/ 5/77

WATER-SURFACE PROFILE FOR: BOONE CREEK 10&50-YR PROFILES UP&DOWNST D-G
PAGE 1 OF 1, PROFILE NUMBER 2, UPSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW	WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID
D	AT	1565	0	2720.	1771.	146718.	1.23	14.	540.	3124.08	0.05			3124.12	1.54	0.17		*IS*
D+.6	AT	1775	210	2060.	1498.	112477.	1.25	16.	540.	3124.16	0.04	0.07	0.0	3124.20	1.37	0.16	0.000	*XS*
E-.6	AT	1948	173	2060.	483.	24167.	1.87	112.	595.	3125.59	0.53	*****	*****	3126.12	4.26	0.56	*****	*XS*
E-REG	AT	2160	212	2060.	686.	40444.	1.33	177.	595.	3126.86	0.19	0.92	0.0	3127.04	3.00	0.38	0.000	*XS*
E-TW	AT	2165	5	2060.	686.	40444.	1.33	177.	595.	3126.86	0.19	0.01	0.0	3127.04	3.00	0.38	-0.013	*XS*
BR-EF	AT	2179	14	2060.	333.	18978.	1.48	199.	610.	3126.93	0.88	0.08	0.69	3127.81	6.18	0.58	0.000	*XS*
AP-EF	AT	2199	20	2060.	338.	24566.	1.44	170.	360.	3127.77	0.83	*****	*****	3128.60	6.09	0.60	*****	*XS*
F-APP	AT	2232	33	2060.	293.	24213.	1.21	170.	354.	3127.96	0.93	0.24	0.05	3128.88	7.04	0.61	-0.001	*XS*
G	AT	2465	233	2060.	436.	19252.	1.52	0.	161.	3130.48	0.53	2.12	0.0	3131.01	4.73	0.48	-0.000	*XS*

USE
3127.9

3127.3

3127.5

CH

Flow profile
see to water table
Flow profile in bed of the
channel

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 14. DATE= 8/ 5/77

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK 10,50-YR PROFILES UP&DOWNST D-9
PROFILE NUMBER 2, UPSTREAM COMPUTATIONS

SECID: ERROR (WARNING) MESSAGE: INTERMEDIATE RESULTS (IF ANY): ACTION TAKEN

E-.6 : FRON FAILURE	: WS = 3123.93 & FR = 1.68:	USED HIGHER WS
E-.6 : WS NOT FOUND BETWEEN	: WS = 3123.91 & WS = 3130.60:	USED DEL = 0.25
E-.6 : FRON FAILURE	: WS = 3123.93 & FR = 1.68:	USED HIGHER WS
E-.6 : WS NOT FOUND BETWEEN	: WS = 3123.91 & WS = 3130.60:	USED WSMIN = WSC
E-.6 : WS NOT FOUND	:	ASSUMED WS = WSC
E-REG: KU/KD < 0.7 OR > 1.4	:	ALERTED USER
RR-EF: KU/KD < 0.7 OR > 1.4	:	ALERTED USER
AP-EF: WS NOT FOUND BETWEEN	: WS = 3126.68 & WS = 3131.20:	USED DEL = 0.25
AP-EF: WS NOT FOUND BETWEEN	: WS = 3126.68 & WS = 3131.20:	USED WSMIN = WSC
AP-EF: WS NOT FOUND	:	ASSUMED WS = WSC

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 13, DATE= 8/ 5/77

COMPUTED WSC VALUES FOR: BOONE CREEK, 10&50-YR PROFILES UP&DOWNST. D-6
PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECID E2.6
WSC 3125.20

10/3/77

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 12, DATE= 8/ 5/77

WATER-SURFACE PROFILE FOR: BOONE CREEK 10,50-YR PROFILES UP&DOWNST D-6
PAGE 1 OF 1, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEN	REW
WS ELEV	HV	HF	HE	FG	V	FN	ACC	ID	
D	AT	1565	0	1780	1335	93911	1.26	19	540
3123.25	0.03			3123.28	1.33	0.17			*IS*
D+.6	AT	1775	210	1300	1070	66638	1.29	29	540
3123.33	0.03	0.08	0.0	3123.36	1.22	0.17			*XS*
E-.6	AT	1948	173	1300	339	17103	2.01	117	595
3125.20	0.46	*****	*****	3125.66	3.84	0.50	*****		*XS*
E-REG	AT	2160	212	1300	467	24897	1.64	177	595
3126.31	0.20	0.84	0.0	3126.51	2.78	0.34			*XS*
E-TW	AT	2165	5	1300	467	24897	1.64	177	595
3126.31	0.20	0.01	0.0	3126.51	2.78	0.34			*XS*
BR-EF	AT	2179	14	1300	208	12690	1.48	199	610
3126.39	0.90	0.07	0.70	3127.29	6.26	0.56			*XS*
AP-EF	AT	2199	20	1300	187	14571	1.19	172	251
3126.58	0.90	0.18	0.0	3127.48	6.96	0.62			*XS*
F-APP	AT	2232	33	1300	197	15765	1.19	172	252
3126.91	0.81	0.24	0.0	3127.72	6.61	0.58			*XS*
G	AT	2465	233	1300	272	11406	1.56	0	132
3129.36	0.56	2.19	0.0	3129.92	4.79	0.51			*XS*

OK
OK
*3124.2

END OF THIS PROFILE

SEC of channel with E-6 restricted at 350'

All E-6 channel would have high spot located by E-6. Water flowing
up channel would flow to right of this high spot and would limit to 1/2 channel
instead of 3/4. At E-4 flow would be in 1/2 channel. Since E-4 is not fixed
elevation at E-6 with 100 ft, flow would be at 1/2 channel as the flow was
3124.2 as a max word.

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 11, DATE= 8/ 5/77

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK 10&50-YR PROFILES UP&DOWNST 0-6
PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECID: ERROR (WARNING) MESSAGE: INTERMEDIATE RESULTS (IF ANY): ACTION TAKEN

E-.6 : FRON FAILURE

: WS = 3123.45 & FR = 1.30:

USED HIGHER WS

E-.6 : WS NOT FOUND BETWEEN

: WS = 3123.08 & WS = 3130.60:

USED DEL = 0.25

E-.6 : FRON FAILURE

: WS = 3123.45 & FR = 1.30:

USED HIGHER WS

E-.6 : WS NOT FOUND BETWEEN

: WS = 3123.08 & WS = 3130.60:

USED WSMIN = WSC

E-.6 : WS NOT FOUND

ASSUMED WS = WSC

E-REG: KU/KD < 0.7 OR > 1.4

ALERTED USER

BR-EF: KU/KD < 0.7 OR > 1.4

ALERTED USER

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 10 DATE= 8/ 5/77

*** INPUT CARD PRINTOUT ***

1 2 3 4 5 6 7 8
.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0

7 10000
8 10001

0 0 2 2
0 0 0 0

CROSS-SECTION PROPERTIES FOR: BOONE CREEK 10&50-YR PROFILES UP&DOWNST D-G
 SECID=F-APP AT DISTANCE= 2232 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	RFW	QC
3127.0	204	16332	1.20	82	87	172	254	1658
3127.5	248	20198	1.21	94	99	171	265	2084
3128.0	298	24615	1.21	108	114	170	357	2543
3128.5	386	27995	1.61	252	260	169	562	2134
3129.0	543	36781	1.64	355	364	167	600	2983
3129.5	727	52552	1.40	384	394	142	604	4798
3130.0	927	72470	1.27	418	429	112	608	6950
3130.5	1178	97147	1.24	520	532	14	612	9036
3131.0	1440	127239	1.19	530	543	8	616	12370
3131.5	1708	161813	1.14	542	556	0	620	16102
3132.0	1979	201788	1.10	542	558	0	620	20427
3132.5	2250	245776	1.08	542	560	0	620	25072
3133.0	2521	293534	1.06	542	562	0	620	30001

CROSS-SECTION PROPERTIES FOR: BOONE CREEK 10&50-YR PROFILES UP&DOWNST D-G
 SECID=G AT DISTANCE= 2465 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	RFW	QC
3124.0	29	854	1.00	18	21	0	18	211
3124.5	39	1301	1.00	19	22	0	19	315
3125.0	48	1811	1.00	19	23	0	19	433
3125.5	58	2376	1.00	19	24	0	19	564
3126.0	67	2991	1.00	20	25	0	20	707
3126.5	77	3652	1.00	20	26	0	20	861
3127.0	88	4072	1.00	24	31	0	24	955
3127.5	101	4607	1.00	29	36	0	29	1073
3128.0	126	5705	1.14	79	87	0	79	846
3128.5	171	7354	1.38	100	108	0	100	1081
3129.0	226	9497	1.52	121	130	0	121	1421
3129.5	291	12248	1.57	136	145	0	136	1928
3130.0	362	15562	1.55	149	158	0	149	2567
3130.5	439	19441	1.52	162	172	0	162	3332
3131.0	524	23909	1.48	175	186	0	175	4228
3131.5	613	29166	1.41	184	195	0	184	5341
3132.0	708	35024	1.36	193	205	0	193	6588
3132.5	817	40574	1.39	222	234	0	222	7543
3133.0	930	48324	1.32	228	241	0	228	9256
3133.5	1045	56763	1.27	234	247	0	234	11115
3134.0	1164	65883	1.23	240	254	0	240	13111
3134.5	1285	75679	1.19	246	261	0	246	15239
3135.0	1410	86340	1.17	251	266	0	251	17559

CROSS-SECTION PROPERTIES FOR: ROONE CREEK 10&50-YR PROFILES UP&DOWNST D-G
 SECID=BR-EF AT DISTANCE= 2179 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	RFW	QC
3132.0	2870	337621	1.06	610	632	0	610	34307

CROSS-SECTION PROPERTIES FOR: ROONE CREEK 10&50-YR PROFILES UP&DOWNST D-G
 SECID=AP-EF AT DISTANCE= 2199 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	RFW	QC
3122.0	35	1705	1.00	18	20	181	200	277
3122.5	45	2364	1.00	21	23	179	200	377
3123.0	56	3203	1.00	22	24	178	200	502
3123.5	67	4175	1.00	23	26	177	201	645
3124.0	79	5269	1.00	24	28	177	201	804
3124.5	91	6486	1.00	26	29	176	201	978
3125.0	105	7829	1.00	27	31	175	202	1169
3125.5	120	9390	1.02	40	44	174	214	1168
3126.0	145	11385	1.11	61	65	173	234	1209
3126.5	180	14047	1.18	77	81	172	249	1440
3127.0	222	17454	1.21	91	95	171	262	1786
3127.5	289	21001	1.46	177	182	171	348	1732
3128.0	391	26828	1.61	266	270	170	500	2120
3128.5	563	35605	1.74	422	427	168	598	2791
3129.0	781	52784	1.40	448	454	154	602	4940
3129.5	1013	75674	1.24	482	488	124	606	7478
3130.0	1281	103383	1.19	596	601	15	610	9761
3130.5	1581	137655	1.15	603	609	11	614	13522
3131.0	1885	177250	1.12	615	621	3	618	17708
3131.2	2009	194511	1.11	620	626	0	620	19498

CROSS-SECTION PROPERTIES FOR: ROONE CREEK 10&50-YR PROFILES UP&DOWNST D-G
 SECID=AP-APP AT DISTANCE= 2232 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	RFW	QC
3122.0	35	1701	1.00	18	20	181	199	277
3122.5	45	2357	1.00	20	22	179	200	377
3123.0	55	3193	1.00	22	24	178	200	502
3123.5	67	4161	1.00	23	26	178	201	644
3124.0	78	5248	1.00	24	27	177	201	802
3124.5	91	6455	1.00	25	29	176	201	976
3125.0	104	7784	1.00	27	31	175	202	1165
3125.5	117	9237	1.00	28	32	174	202	1371
3126.0	137	11023	1.05	49	53	173	222	1265
3126.5	166	13320	1.14	68	73	173	241	1374

CROSS-SECTION PROPERTIES FOR: ROONE CREEK 10&50-YR PROFILES UP&DOWNST D-G
 SECID=E-TW AT DISTANCE= 2165 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	RFW	QC
3127.5	968	76485	1.05	466	473	92	595	7702
3128.0	1203	107475	1.05	475	484	83	595	10576
3128.5	1443	141883	1.07	485	495	73	595	13678
3129.0	1687	180465	1.08	494	506	64	595	17013
3129.5	1938	222861	1.10	510	524	48	595	20419
3130.0	2198	269266	1.12	527	542	31	595	24036
3130.5	2462	319898	1.14	532	548	26	595	28191
3131.0	2733	373514	1.16	551	569	7	595	32092
3131.5	3011	431602	1.17	558	578	0	595	36622
3132.0	3290	493711	1.18	558	580	0	595	41668
3132.5	3569	559212	1.19	558	582	0	595	46935
3133.0	3848	627989	1.20	558	584	0	595	52415
3133.5	4127	699936	1.20	558	586	0	595	58098
3134.0	4406	774959	1.20	558	588	0	595	63974
3134.5	4685	852972	1.21	558	590	0	595	70037
3135.0	4964	933894	1.21	558	592	0	595	76281

CROSS-SECTION PROPERTIES FOR: ROONE CREEK 10&50-YR PROFILES UP&DOWNST D-G
 SECID=BR-EF AT DISTANCE= 2179 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	RFW	QC
3121.0	23	681	1.00	23	24	199	222	133
3121.5	35	1292	1.00	23	25	199	222	243
3122.0	46	2026	1.00	23	26	199	222	373
3122.5	58	2859	1.00	23	27	199	222	520
3123.0	69	3775	1.00	23	28	199	222	683
3123.5	81	4763	1.00	23	29	199	222	859
3124.0	92	5813	1.00	23	30	199	222	1049
3124.5	104	6916	1.00	23	31	199	222	1251
3125.0	115	8068	1.00	23	32	199	222	1465
3125.5	127	9261	1.00	23	33	199	222	1689
3126.0	138	10492	1.00	23	34	199	222	1924
3126.5	232	13715	1.53	216	229	199	610	1099
3127.0	350	19983	1.46	258	272	199	610	1917
3127.5	491	28863	1.30	308	324	199	610	3083
3128.0	676	40132	1.25	428	444	182	610	4316
3128.5	900	60247	1.12	469	486	141	610	6686
3129.0	1145	85155	1.08	510	528	100	610	9356
3129.5	1406	115073	1.07	534	552	76	610	12522
3130.0	1679	149676	1.07	558	576	52	610	16001
3130.5	1963	188918	1.07	581	601	29	610	19793
3131.0	2260	232789	1.07	605	625	5	610	23900
3131.5	2565	282799	1.07	610	631	0	610	28872

CROSS-SECTION PROPERTIES FOR: ROONE CREEK 10&50-YR PROFILES UP&DOWNST D-G
 SECID=E-PEG AT DISTANCE= 2160 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	RFW	QC
3122.0	43	2065	1.00	23	24	182	204	331
3122.5	54	2909	1.00	25	27	181	206	456
3123.0	67	3914	1.00	27	29	180	207	602
3123.5	82	5182	1.00	30	32	179	209	769
3124.0	97	6719	1.01	32	34	179	210	958
3124.5	113	8456	1.02	33	36	179	212	1170
3125.0	133	10047	1.09	80	83	178	595	926
3125.5	223	12929	1.72	252	256	178	595	911
3126.0	364	19189	1.75	311	316	178	595	1687
3126.5	537	27961	1.70	418	423	177	595	2650
3127.0	746	46861	1.22	418	424	177	595	5117
3127.5	968	76485	1.05	466	473	92	595	7702
3128.0	1203	107475	1.05	475	484	83	595	10576
3128.5	1443	141883	1.07	485	495	73	595	13678
3129.0	1687	180465	1.08	494	506	64	595	17013
3129.5	1938	222861	1.10	510	524	48	595	20419
3130.0	2198	269266	1.12	527	542	31	595	24036
3130.5	2462	319898	1.14	532	548	26	595	28191
3131.0	2733	373514	1.16	551	569	7	595	32092
3131.5	3011	431602	1.17	558	578	0	595	36622
3132.0	3290	493711	1.18	558	580	0	595	41668
3132.5	3569	559212	1.19	558	582	0	595	46935
3133.0	3848	627989	1.20	558	584	0	595	52415
3133.5	4127	699936	1.20	558	586	0	595	58098
3134.0	4406	774959	1.20	558	588	0	595	63974
3134.5	4685	852972	1.21	558	590	0	595	70037
3135.0	4964	933894	1.21	558	592	0	595	76281

CROSS-SECTION PROPERTIES FOR: ROONE CREEK 10&50-YR PROFILES UP&DOWNST D-G
 SECID=E-TW AT DISTANCE= 2165 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	RFW	QC
3122.0	43	2065	1.00	23	24	182	204	331
3122.5	54	2909	1.00	25	27	181	206	456
3123.0	67	3914	1.00	27	29	180	207	602
3123.5	82	5182	1.00	30	32	179	209	769
3124.0	97	6719	1.01	32	34	179	210	958
3124.5	113	8456	1.02	33	36	179	212	1170
3125.0	133	10047	1.09	80	83	178	595	926
3125.5	223	12929	1.72	252	256	178	595	911
3126.0	364	19189	1.75	311	316	178	595	1687
3126.5	537	27961	1.70	418	423	177	595	2650
3127.0	746	46861	1.22	418	424	177	595	5117

CROSS-SECTION PROPERTIES FOR: ROONE CREEK 10&50-YR PROFILES UP&DOWNST D-G
 SECID=D+.6 AT DISTANCE= 1775 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	RFW	QC
3126.5	2731	294414	1.20	530	536	10	540	32074
3127.0	2996	341903	1.20	531	537	9	540	36863
3127.5	3262	392182	1.20	532	539	8	540	41868
3128.0	3528	445171	1.20	533	541	7	540	47080
3128.5	3795	500793	1.19	534	542	6	540	52492
3129.0	4062	558984	1.19	535	544	5	540	58096
3129.5	4330	619679	1.19	536	546	4	540	63887
3130.0	4599	682825	1.19	538	548	2	540	69859
3130.5	4868	748367	1.19	539	549	1	540	76008
3131.0	5137	816258	1.19	540	551	0	540	82329
3131.5	5407	886820	1.19	540	552	0	540	88924
3131.6	5461	901199	1.19	540	552	0	540	90266

CROSS-SECTION PROPERTIES FOR: ROONE CREEK 10&50-YR PROFILES UP&DOWNST D-G
 SECID=E-.6 AT DISTANCE= 1948 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	RFW	QC
3122.0	57	3097	1.00	25	27	181	206	484
3122.5	70	4136	1.00	28	30	180	208	634
3123.0	85	5470	1.00	30	32	179	209	805
3123.5	100	7026	1.01	32	35	178	211	995
3124.0	117	8776	1.02	35	37	178	212	1207
3124.5	144	10492	1.18	126	129	177	595	802
3125.0	270	14393	1.96	321	325	120	595	1002
3125.5	447	22268	1.91	388	392	113	595	1971
3126.0	664	33825	1.75	488	493	107	595	3323
3126.5	910	56621	1.29	495	500	100	595	6159
3127.0	1160	89874	1.14	505	510	90	595	9328
3127.5	1415	122677	1.13	514	520	81	595	12522
3128.0	1674	159943	1.13	524	530	71	595	15955
3128.5	1938	201463	1.14	533	540	62	595	19621
3129.0	2209	246360	1.16	552	559	43	595	23250
3129.5	2489	296012	1.18	564	573	31	595	27307
3130.0	2772	349875	1.19	573	581	22	595	31719
3130.5	3063	406417	1.21	591	601	4	595	35920
3130.6	3123	418186	1.22	595	604	0	595	36784

CROSS-SECTION PROPERTIES FOR: ROONE CREEK 10&50-YR PROFILES UP&DOWNST D-G
 SECID=D AT DISTANCE= 1565 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	RFW	QC
3119.0	19	482	1.00	23	23	218	241	96
3119.5	40	1146	1.31	56	56	186	242	165
3120.0	74	2303	1.44	80	81	163	243	333
3120.5	144	4492	1.74	233	234	142	375	487
3121.0	291	10045	1.81	351	352	129	480	1119
3121.5	493	20151	1.62	424	425	116	540	2365
3122.0	708	35351	1.33	437	439	103	540	4441
3122.5	950	54880	1.32	506	508	34	540	6431
3123.0	1206	80173	1.27	516	518	24	540	9271
3123.5	1466	108676	1.25	524	527	16	540	12433
3124.0	1729	141206	1.23	525	529	15	540	16024
3124.5	1992	177121	1.22	526	531	14	540	19894
3125.0	2255	216257	1.21	528	532	12	540	24024
3125.5	2519	258478	1.21	529	534	11	540	28401
3126.0	2784	303666	1.20	530	536	10	540	33012
3126.5	3049	351719	1.20	531	538	9	540	37845
3127.0	3315	402545	1.20	532	539	8	540	42892
3127.5	3581	456065	1.20	533	541	7	540	48144
3128.0	3848	512205	1.19	534	543	6	540	53595
3128.5	4116	570900	1.19	535	545	5	540	59237
3129.0	4384	632090	1.19	537	546	3	540	65064
3129.5	4652	695717	1.19	538	548	2	540	71072
3130.0	4921	761732	1.19	539	550	1	540	77256
3130.5	5191	830089	1.19	540	551	0	540	83610
3131.0	5461	901191	1.19	540	552	0	540	90265

CROSS-SECTION PROPERTIES FOR: ROONE CREEK 10&50-YR PROFILES UP&DOWNST D-G
 SECID=D+.6 AT DISTANCE= 1775 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	RFW	QC
3120.0	34	977	1.25	51	51	191	242	142
3120.5	66	2026	1.43	75	76	168	243	297
3121.0	122	3809	1.65	205	206	145	350	416
3121.5	257	8633	1.81	328	329	132	460	958
3122.0	451	17753	1.71	422	422	118	540	2019
3122.5	665	31082	1.37	435	436	105	540	3989
3123.0	900	50044	1.34	504	506	36	540	5894
3123.5	1154	74947	1.28	514	516	26	540	8682
3124.0	1414	102605	1.26	524	527	16	540	11752
3124.5	1676	134436	1.24	525	529	15	540	15284
3125.0	1939	169690	1.22	526	530	14	540	19100
3125.5	2203	208195	1.21	527	532	13	540	23100
3126.0	2467	249810	1.21	529	534	11	540	27509

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 3 DATE= 8/ 5/77

INPUT SUMMARY FOR: BOONE CREEK 10&50-YR PROFILES UP&DOWNST D-6

9 CROSS SECTIONS SPECIFIED (OR ASSUMED)

FOUND 9 TYPE 3 CARDS

KEPT 9 CROSS SECTIONS FOR EDITING

9 " " VALID FOR PROPERTY COMPUTATIONS

9 " " " " PROFILE " "

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8	9		
.....5.....0	.....5.....0	.....5.....0	.....5.....0	.....5.....0	.....5.....0	.....5.....0	.....5.....0	.....5.....0	.....5.....0		
5	605	232 3	31278	300 3	31277	350 3	31273	450 3	31261	550 3	31260
5	606	010 3	31260	610 3	31320						
6	609	1 2	035 035	1 2	050 050	1 2	035 035				
3	625	AP-EF 0	32 3	3122	2199 99	99					
5	627	0 1	31312	14 1	31303	15 1	31298	50 1	31297	100 1	31299
5	628	166 2	31288	169 2	31284	179 2	31226	183 2	31215	185 2	31200
5	629	192 2	31193	196 2	31197	198 2	31200	202 3	31252	238 3	31261
5	630	265 3	31271	291 3	31272	317 3	31273	343 3	31274	361 3	31278
5	631	362 3	31278	384 3	31279	392 3	31279	392 3	31285	400 3	31285
5	632	419 3	31283	451 3	31285	459 3	31278	500 3	31280	550 3	31281
5	633	598 3	31285	620 3	31312						
6	635	1 2	035 035	1 2	045 045	1 2	035 035				
3	700	F-APP 0	32 3	3122	2232 99	99					
5	703	0 1	31315	14 1	31306	15 1	31301	50 1	31300	100 1	31302
5	704	166 2	31291	169 2	31287	179 2	31226	183 2	31215	185 2	31200
5	705	192 2	31193	196 2	31197	198 2	31200	202 3	31255	238 3	31264
5	706	265 3	31274	265 3	31330	343 3	31330	343 3	31277	361 3	31281
5	707	362 3	31281	384 3	31282	392 3	31282	392 3	31288	400 3	31288
5	708	419 3	31286	451 3	31288	459 3	31281	500 3	31283	550 3	31284
5	709	598 3	31288	620 3	31315						
6	710	1 2	035 035	1 2	045 045	1 2	035 035				
3	800	G 0	15 2	3124	2465 99	99					
5	803	0 1	31350	0 1	31223	8 1	31222	13 1	31220	17 1	31234
5	804	18 1	31235	20 1	31266	30 2	31276	50 2	31278	75 2	31279
5	805	125 2	31291	175 2	31310	193 2	31320	216 2	31320	251 2	31349
6	809	1 2	065 065	1 2	080 080						

10850 SECTION D-6
FIAPL

USGS STEP-BACKWATER PROGRAM - VERSION 77.1R0 *** PAGE COUNT= 1 DATE= 8/ 5/77

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8
1	1	ROONE CREEK	10A50-YR	PROFILES	UP&DOWNST	0-6	9	4 02 05 10
2	2	312375	312408	-99999	-99999			
3	400	0	1 21 3	3119	1565	99	99	
4	401	1780	2720	1780	2720			
5	403	0	1 31305	16	1 31234	40	1 31222	100 1 31221 150 1 31202
5	404	163	1 31200	200	1 31192	218	2 31190	220 2 31181 222 2 31177
5	405	225	2 31178	232	2 31181	237	2 31186	240 2 31187 244 3 31204
5	406	260	3 31203	300	3 31202	400	3 31206	500 3 31211 540 3 31212
5	407	540	3 31310					
6	409	1 2 060	060 2	3 050	040 1	2 040	035	
3	415	0+.6	1 21 3	3120	1775	99	99	
4	416	1300	2060	1300	2060			
5	418	0	1 31311	16	1 31240	40	1 31228	100 1 31227 150 1 31208
5	419	163	1 31206	200	1 31198	218	2 31196	220 2 31187 222 2 31183
5	420	225	2 31184	232	2 31187	237	2 31192	240 2 31193 244 3 31210
5	421	260	3 31209	300	3 31208	400	3 31212	500 3 31217 540 3 31218
5	422	540	3 31316					
6	425	1 2 060	060 2	3 050	040 1	2 040	035	
3	440	F-.6	0 26 3	3122	1948	99	99	08
5	443	0	1 31306	30	1 31298	31	1 31293	60 1 31286 100 1 31265
5	444	120	1 31250	130	1 31247	150	1 31246	170 1 31246 177 2 31245
5	445	179	2 31231	183	2 31206	188	2 31192	190 2 31188 195 2 31192
5	446	202	2 31192	204	2 31213	208	3 31226	215 3 31249 250 3 31244
5	447	300	3 31258	350	3 31259	450	3 31247	550 3 31244 595 3 31243
5	448	595	3 31304					
6	450	1 2 060	060 4	5 045	050 1	2 040	030	
3	480	F-REG	0 26 3	3122	2160	99	99	
5	483	0	1 31312	30	1 31304	31	1 31299	60 1 31292 100 1 31271
5	484	133	1 31274	133	1 31350	170	1 31350	170 1 31272 177 2 31271
5	485	179	2 31237	183	2 31212	188	2 31198	190 2 31194 195 2 31198
5	486	202	2 31198	204	2 31219	208	3 31232	215 3 31255 250 3 31250
5	487	300	3 31264	350	3 31265	450	3 31253	550 3 31250 595 3 31249
5	488	595	3 31310					
6	490	1 2 060	060 4	5 045	050 1	2 040	030	
3	500	F-TW	0 26 3	3122	2165	99	99	
5	503	0	1 31312	30	1 31304	31	1 31299	60 1 31292 100 1 31271
5	504	133	1 31274	133	1 31350	170	1 31350	170 1 31272 177 2 31271
5	505	179	2 31237	183	2 31212	188	2 31198	190 2 31194 195 2 31198
5	506	202	2 31198	204	2 31219	208	3 31232	215 3 31255 250 3 31250
5	507	300	3 31264	350	3 31265	450	3 31253	550 3 31250 595 3 31249
5	508	595	3 31310					
6	510	1 2 060	060 4	5 045	050 1	2 040	030	
3	600	RD-EF	0 17 3	3121	2179	99	99	10
5	603	0	1 31311	100	1 31290	199	2 31278	199 2 31210 200 2 31207
5	604	201	2 31199	206	2 31195	211	2 31199	217 2 31202 222 2 31203

*** INPUT CARD PRINTOUT ***

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1 1 BOONE CREEK FLOODWAY C-E FIRST 5 1 02 99 10
2 312300
3 300 C MOD 1 23 1 3118 961 99 99
4 301 2520
5 303 0 1 31300 0 1 31276 36 1 31271 41 1 31266 48 1 31222
5 304 62 1 31192 67 1 31183 79 1 31165 87 1 31158 94 1 31150
5 305 98 1 31148 101 1 31159 104 1 31189 136 1 31192 150 1 31194
5 306 200 1 31197 264 1 31192 264 1 31300 308 1 31300 308 1 31195
5 307 343 1 31202 380 1 31202 380 1 31300
6 309 1 2 050 050
3 400 D 1 21 3 3119 1565 99 99
4 401 3090
5 403 0 1 31305 16 1 31234 40 1 31222 100 1 31221 150 1 31202
5 404 163 1 31200 200 1 31192 218 2 31190 220 2 31181 222 2 31177
5 405 225 2 31178 232 2 31181 237 2 31186 240 2 31187 244 3 31204
5 406 260 3 31203 300 3 31202 400 3 31206 500 3 31211 540 3 31212
5 407 540 3 31310
6 409 1 2 060 060 2 3 050 040 1 2 040 035
3 415 D+.6 1 21 3 3120 1775 99 99
4 416 2380
5 418 0 1 31311 16 1 31240 40 1 31228 100 1 31227 150 1 31208
5 419 163 1 31206 200 1 31198 218 2 31196 220 2 31187 222 2 31183
5 420 225 2 31184 232 2 31187 237 2 31192 240 2 31193 244 3 31210
5 421 260 3 31209 300 3 31208 400 3 31212 500 3 31217 540 3 31218
5 422 540 3 31316
6 425 1 2 060 060 2 3 050 040 1 2 040 035
3 440 E-.6 0 26 3 3122 1948 99 99 08
5 443 0 1 31306 30 1 31298 31 1 31293 60 1 31286 100 1 31265
5 444 120 1 31250 130 1 31247 150 1 31246 170 1 31246 177 2 31245
5 445 179 2 31231 183 2 31206 188 2 31192 190 2 31188 195 2 31192
5 446 202 2 31192 204 2 31213 208 3 31226 215 3 31249 250 3 31244
5 447 300 3 31258 350 3 31259 450 3 31247 550 3 31244 595 3 31243
5 448 595 3 31304
6 450 1 2 060 060 4 5 045 050 1 2 040 030
3 480 E-REG 0 26 3 3122 2160 99 99
5 483 0 1 31312 30 1 31304 31 1 31299 60 1 31292 100 1 31271
5 484 133 1 31274 133 1 31350 170 1 31350 170 1 31272 177 2 31271
5 485 179 2 31237 183 2 31212 198 2 31198 190 2 31194 195 2 31198
5 486 202 2 31198 204 2 31219 208 3 31232 215 3 31255 250 3 31250
5 487 300 3 31264 350 3 31265 450 3 31253 550 3 31250 595 3 31249
5 488 595 3 31310
6 490 1 2 060 060 4 5 045 050 1 2 040 030
    
```

USE

*to correct part of table
 correct part of table
 to correct part of table*

*what is up but in order to
 the water to shift*

INPUT SUMMARY FOR: BOONE CREEK FLOODWAY C-E FIRST

5 CROSS SECTIONS SPECIFIED (OR ASSUMED)

FOUND 5 TYPE 3 CARDS

KEPT 5 CROSS SECTIONS FOR EDITING

5 " " VALID FOR PROPERTY COMPUTATIONS

5 " " " " PROFILE "

CROSS-SECTION PROPERTIES FOR: BOONE CREEK FLOODWAY C-E
 SECID=C MOD AT DISTANCE= 961 FIRST PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3118.0	63	2784	1.00	34	35	69	103	490
3127.9	2554	278666	1.00	336	364	0	380	39935
3130.0	3260	412168	1.00	336	373	0	380	57582

CROSS-SECTION PROPERTIES FOR: BOONE CREEK FLOODWAY C-E
 SECID=D AT DISTANCE= 1565 FIRST PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3119.0	19	482	1.00	23	23	218	241	96
3128.9	4330	619643	1.19	536	546	4	540	63883
3131.0	5461	901191	1.19	540	552	0	540	90265

CROSS-SECTION PROPERTIES FOR: BOONE CREEK FLOODWAY C-E
 SECID=D+.6 AT DISTANCE= 1775 FIRST PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3120.0	34	977	1.25	51	51	191	242	142
3129.9	4545	669990	1.19	537	547	3	540	68649
3131.6	5461	901199	1.19	540	552	0	540	90266

CROSS-SECTION PROPERTIES FOR: BOONE CREEK FLOODWAY C-E
 SECID=E-.6 AT DISTANCE= 1948 FIRST PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3122.0	57	3097	1.00	25	27	181	206	484
3130.6	3123	418186	1.22	595	604	0	595	36784

CROSS-SECTION PROPERTIES FOR: BOONE CREEK FLOODWAY C-E
 SECID=E-REG AT DISTANCE= 2160 FIRST PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3122.0	43	2065	1.00	23	24	182	204	331
3131.9	3234	481001	1.18	558	580	0	595	40639
3135.0	4964	933894	1.21	558	592	0	595	76281

*** INPUT CARD PRINTOUT ***

.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0

7 1000 1
8 1001 1

*** INPUT CARD PRINTOUT ***

.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0

9	1002	300	NOE	46	380	312300
9	1003	400	VHD 100	218	244	312368
9	1004	415	HOR 100	218	-999	312383
9	1005	440	HOR 100	177	-999	312573
9	1006	480	HOR 100	177	-999	312701
9	1007		END			AT BANK LT,NO RIGHT

CROSS-SECTION PROPERTIES FOR: BOONE CREEK FLOODWAY C-E
 SECID=D AT DISTANCE= 1565 FIRST
 PART 1 OF 1
 *** FLOODWAY ANALYSIS *** AT BANK LT.NO RIGHT

WS	A	K	ALPHA	B	P	LEW	REW	QC
3119.0	19	482	1.00	23	23	218	241	96
3128.9	1965	330379	1.01	226	244	218	444	32711
3131.0	2439	469583	1.02	226	249	218	444	45103

CROSS-SECTION PROPERTIES FOR: BOONE CREEK FLOODWAY C-E
 SECID=D+.6 AT DISTANCE= 1775 FIRST
 PART 1 OF 1
 *** FLOODWAY ANALYSIS *** AT BANK LT.NO RIGHT

WS	A	K	ALPHA	B	P	LEW	REW	QC
3120.0	28	908	1.00	24	24	218	242	172
3129.9	2851	494179	1.01	322	341	218	540	47909
3131.6	3390	659074	1.01	322	344	218	540	62236

CROSS-SECTION PROPERTIES FOR: BOONE CREEK FLOODWAY C-E
 SECID=E-.6 AT DISTANCE= 1948 FIRST
 PART 1 OF 1
 *** FLOODWAY ANALYSIS *** AT BANK LT.NO RIGHT

WS	A	K	ALPHA	B	P	LEW	REW	QC
3122.0	57	3097	1.00	25	27	181	206	484
3130.6	2504	378325	1.02	418	433	177	595	34447

CROSS-SECTION PROPERTIES FOR: BOONE CREEK FLOODWAY C-E
 SECID=E-REG AT DISTANCE= 2160 FIRST
 PART 1 OF 1
 *** FLOODWAY ANALYSIS *** AT BANK LT.NO RIGHT

WS	A	K	ALPHA	B	P	LEW	REW	QC
3122.0	43	2065	1.00	23	24	182	204	331
3131.9	2794	454887	1.02	418	434	177	595	40540
3135.0	4090	857636	1.04	418	440	177	595	71295

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK FLOODWAY C-E FIRST
PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

E-.6 ; FRDN FAILURE
; WS = 3124.15 & FR = 1.79;
; USED HIGHER WS
E-.6 ; WS NOT FOUND BETWEEN
; WS = 3123.88 & WS = 3130.60;
; USED DEL = 0.25
E-.6 ; FRDN FAILURE
; WS = 3124.15 & FR = 1.79;
; USED HIGHER WS
E-.6 ; WS NOT FOUND BETWEEN
; WS = 3123.88 & WS = 3130.60;
; USED WSMIN = WSC
E-.6 ; WS NOT FOUND
; ASSUMED WS = WSC
E-REG; KU/KD < 0.7 OR > 1.4
; ALERTED USER

WATER-SURFACE PROFILE FOR: ROONE CREEK FLOODWAY C-E FIRST
 PAGE 1 OF 1, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS
 *** FLOODWAY ANALYSIS *** AT BANK LT,NO RIGHT

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=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
  WS ELEV /   HV /   HF /   HE /   EG /   V /   FN /   ACC *ID*
=====
C MOD AT   961 /    0 /  2520. /  1094. /  76904. / 1.00 /  47. /  380.
  3123.00 /  0.08 /          / 3123.08 /  2.30 /  0.21/          *IS*
-----
D   AT   1565 /   604 /  3090. /   803. /  76256. / 1.00 /  218. /  444.
  3123.75 /  0.23 /  0.81 /  0.07 / 3123.98 /  3.65 /  0.37 /  0.013 *XS*
-----
D+.6 AT   1775 /   210 /  2380. /   992. /  87091. / 1.01 /  218. /  540.
  3124.13 /  0.09 /  0.24 /  0.0 / 3124.22 /  2.40 /  0.24 /  0.000 *XS*
-----
E-.6 AT   1948 /   173 /  2380. /   494. /  26499. / 1.61 /  177. /  595.
  3125.78 /  0.58 /***** /***** / 3126.36 /  4.81 /  0.58 /***** *XS*
-----
E-REG AT   2160 /   212 /  2380. /   782. /  51002. / 1.17 /  177. /  595.
  3127.08 /  0.17 /  0.89 /  0.0 / 3127.25 /  3.04 /  0.38 /  0.002 *XS*
=====
    
```

END OF THIS PROFILE

COMPUTED WSC VALUES FOR: BOONE CREEK FLOODWAY C-E FIRST
PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECID: E-.6
WSC 3125.78

SUMMARY OF ENCROACHMENTS FOR: BOONE CREEK FLOODWAY C-E FIRST
 RESULTS OF THE FLOODWAY ANALYSIS ENTITLED AT BANK LT,NO RIGHT (PROFILE
 NUMBER 1, UPSTREAM COMPUTATIONS) ARE COMPARED TO THE RESULTS OF THE
 BASE PROFILE (PROFILE NUMBER 1, UPSTREAM COMPUTATIONS). PAGE 1 OF 1

SECID	CARD 3 SEQUENCE	TYPE	FW OPTION	ENCROACHMENT		SURCHARGE		CHANNEL WIDTH	
				LEFT	RIGHT	IDEAL	ACTUAL	NATURAL	FLOODWAY
C MOD	300	1	NOE	NO	NO	*****	0.0	*****	333
D	400	1	VHD	YES	YES	1.00	0.07	*****	226
D+.6	415	1	HOR	YES	NO	*****	0.30	*****	322
E-.6	440	0	HOR	YES	NO	*****	0.05	*****	418
E-REG	400	0	HOR	YES	NO	*****	0.07	*****	418

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8
.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0								
1	1	BOONE CREEK FINAL 10YR & 50 YR	B TO E	FINAL		8	2	02 99 10
2	2	311844	312056					
3	200	B	1 20 2 3116	646 99 99				
4	201	1110	1900					
5	203	0	1 31305 0 1 31263 10 1 31264 25 1 31247 37 1 31264					
5	204	54	1 31187 64 1 31125 67 1 31114 68 1 31108 73 1 31125					
5	205	82	1 31145 86 1 31149 90 2 31172 110 2 31167 120 2 31154					
5	206	190	2 31154 300 2 31170 310 2 31180 400 2 31199 400 2 31305					
6	210	2	3 050 050 1 2 045 045					
3	230	BC-TW	0 12 2 3113 670 99 99					07
5	233	-4	1 31264 1 1 31229 1 1 31170 3 1 31154 5 1 31117					
5	234	9	1 31117 12 2 31154 19 2 31154 200 2 31170 210 2 31180					
5	235	300	2 31199 300 2 31270					
6	239	1	2 025 025 1 2 040 040					
3	260	BC-AP	0 21 3 3114 903 99 99					10
5	263	-3	1 31245 0 1 31242 9 1 31221 18 2 31217 18 2 31129					
5	264	25	2 31129 25 3 31217 36 3 31218 45 3 31228 55 3 31210					
5	265	62	3 31211 73 3 31211 86 3 31219 100 3 31222 100 3 31300					
5	266	215	3 31300 215 3 31177 250 3 31185 270 3 31183 295 3 31194					
5	267	295	3 31300					
6	269	1	2 050 050 1 2 025 025 1 2 050 050					
3	300	C MOD	0 23 1 3118 961 99 99					
5	303	0	1 31300 0 1 31276 36 1 31271 41 1 31266 48 1 31222					
5	304	62	1 31192 67 1 31183 79 1 31165 87 1 31158 94 1 31150					
5	305	98	1 31148 101 1 31158 104 1 31189 136 1 31192 150 1 31194					
5	306	200	1 31197 264 1 31192 264 1 31300 308 1 31300 308 1 31195					
5	307	343	1 31202 380 1 31202 380 1 31300					
6	309	1	2 050 050					
3	400	D	1 21 3 3119 1565 99 99					
4	401	1780	2720					
5	403	0	1 31305 16 1 31234 40 1 31222 100 1 31221 150 1 31202					
5	404	163	1 31200 200 1 31192 218 2 31190 220 2 31181 222 2 31177					
5	405	225	2 31178 232 2 31181 237 2 31186 240 2 31187 244 3 31204					
5	406	260	3 31203 300 3 31202 400 3 31206 500 3 31211 540 3 31212					
5	407	540	3 31310					
6	409	1	2 060 060 2 3 050 040 1 2 040 035					
3	415	D+.6	1 21 3 3120 1775 99 99					
4	416	1300	2060					
5	418	0	1 31311 16 1 31240 40 1 31228 100 1 31227 150 1 31208					
5	419	163	1 31206 200 1 31198 218 2 31196 220 2 31187 222 2 31183					
5	420	225	2 31184 232 2 31187 237 2 31192 240 2 31193 244 3 31210					
5	421	260	3 31209 300 3 31208 400 3 31212 500 3 31217 540 3 31218					
5	422	540	3 31316					
6	425	1	2 060 060 2 3 050 040 1 2 040 035					
3	440	E-.6	0 26 3 3122 1948 99 99					08

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8
.....	5.....	0.....	5.....	0.....	5.....	0.....	5.....	0.....
5	443	0	1 31306	30	1 31298	31	1 31293	50
5	444	120	1 31250	130	1 31247	150	1 31246	170
5	445	179	2 31231	183	2 31206	188	2 31192	190
5	446	202	2 31192	204	2 31213	208	3 31226	215
5	447	300	3 31258	350	3 31259	450	3 31247	550
5	448	595	3 31304					
6	450	1 2 060 060	4	5 045 050	1	2 040 030		
3	480	E-REG 0	26 3 3122		2160 99	9		
5	483	0	1 31312	30	1 31304	31	1 31299	60
5	484	133	1 31274	133	1 31350	170	1 31272	177
5	485	179	2 31237	183	2 31212	188	2 31198	190
5	486	202	2 31198	204	2 31219	208	3 31232	215
5	487	300	3 31264	350	3 31265	450	3 31253	550
5	488	595	3 31310					
6	490	1 2 060 060	4	5 045 050	1	2 040 030		

INPUT SUMMARY FOR: BOONE CREEK FINAL 10YR & 50 YR B TO E FINAL

8 CROSS SECTIONS SPECIFIED (OR ASSUMED)

FOUND 8 TYPE 3 CARDS

KEPT 8 CROSS SECTIONS FOR EDITING

8 " " VALID FOR PROPERTY COMPUTATIONS

8 " " " " PROFILE "

CROSS-SECTION PROPERTIES FOR: BOONE CREEK FINAL 10YR & 50 YR B TO E FINAL
 SECID=B AT DISTANCE= 646 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3116.0	133	5321	1.50	145	148	58	231	592
3125.9	3285	445053	1.03	381	392	14	400	53976
3130.5	5118	894374	1.04	400	420	0	400	101833

CROSS-SECTION PROPERTIES FOR: BOONE CREEK FINAL 10YR & 50 YR B TO E FINAL
 SECID=BC-TW AT DISTANCE= 670 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3113.0	6	349	1.00	6	7	4	10	38
3122.9	1780	218380	1.03	299	313	1	300	24222
3127.0	3018	513942	1.00	304	323	-3	300	53850

CROSS-SECTION PROPERTIES FOR: BOONE CREEK FINAL 10YR & 50 YR B TO E FINAL
 SECID=BC-AP AT DISTANCE= 903 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3114.0	8	409	1.00	7	9	18	25	46
3123.9	707	53231	1.23	179	209	1	295	7205
3130.0	1822	224868	1.05	183	237	-2	295	31885

CROSS-SECTION PROPERTIES FOR: BOONE CREEK FINAL 10YR & 50 YR B TO E FINAL
 SECID=C MOD AT DISTANCE= 961 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3118.0	63	2784	1.00	34	35	69	103	490
3127.9	2554	278666	1.00	336	364	0	380	39935
3130.0	3260	412168	1.00	336	373	0	380	57582

CROSS-SECTION PROPERTIES FOR: BOONE CREEK FINAL 10YR & 50 YR B TO E FINAL
 SECID=D AT DISTANCE= 1565 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3119.0	19	482	1.00	23	23	218	241	96
3128.9	4330	619643	1.19	536	546	4	540	63883
3131.0	5461	901191	1.19	540	552	0	540	90265

CROSS-SECTION PROPERTIES FOR: BOONE CREEK FINAL 10YR & 50 YR B TO E FINAL
 SECID=D+.6 AT DISTANCE= 1775 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3120.0	34	977	1.25	51	51	191	242	142
3129.9	4545	669990	1.19	537	547	3	540	68649
3131.6	5461	901199	1.19	540	552	0	540	90266

CROSS-SECTION PROPERTIES FOR: BOONE CREEK FINAL 10YR & 50 YR B TO E FINAL
 SECID=E-.6 AT DISTANCE= 1948 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3122.0	57	3097	1.00	25	27	181	206	484
3130.6	3123	418186	1.22	595	604	0	595	36784

CROSS-SECTION PROPERTIES FOR: BOONE CREEK FINAL 10YR & 50 YR B TO E FINAL
 SECID=E-REG AT DISTANCE= 2160 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3122.0	43	2065	1.00	23	24	182	204	331
3131.9	3234	481001	1.18	558	580	0	595	40639
3135.0	4964	933894	1.21	558	592	0	595	76281

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK FINAL 10YR & 50 YR B TO E FINAL
 PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECID	ERROR(WARNING) MESSAGE	INTERMEDIATE RESULTS(IF ANY)	ACTION TAKEN
BC-AP	FRDN FAILURE	WS = 3119.57 & FR = 1.02	USED HIGHER WS
BC-AP	WS NOT FOUND BETWEEN	WS = 3118.19 & WS = 3130.00	USED DEL = 0.25
BC-AP	FRDN FAILURE	WS = 3119.57 & FR = 1.02	USED HIGHER WS
BC-AP	WS NOT FOUND BETWEEN	WS = 3118.19 & WS = 3130.00	USED WSMIN = WSC
BC-AP	WS NOT FOUND		ASSUMED WS = WSC
C MOD	KU/KD < 0.7 OR > 1.4		ALERTED USER
D	KU/KD < 0.7 OR > 1.4		ALERTED USER
E-.6	FRDN FAILURE	WS = 3123.33 & FR = 1.37	USED HIGHER WS
E-.6	WS NOT FOUND BETWEEN	WS = 3122.36 & WS = 3130.60	USED DEL = 0.25
E-.6	FRDN FAILURE	WS = 3123.33 & FR = 1.37	USED HIGHER WS
E-.6	WS NOT FOUND BETWEEN	WS = 3122.36 & WS = 3130.60	USED WSMIN = WSC
E-.6	WS NOT FOUND		ASSUMED WS = WSC
E-REG	KU/KD < 0.7 OR > 1.4		ALERTED USER

WATER-SURFACE PROFILE FOR: BOONE CREEK FINAL 10YR & 50 YR B TO E FINAL
 PAGE 1 OF 1, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID	
B	AT	646	0	1110.	685.	41447.	1.06	54.	331.
3118.44	0.04			3118.48	1.62	0.18			*IS*
BC-TW	AT	670	24	1110.	497.	33564.	1.44	1.	231.
3118.44	0.11	0.02	0.05	3118.55	2.23	0.24			*XS*
BC-AP	AT	903	233	1110.	201.	12038.	1.72	18.	295.
3120.28	0.82	*****	*****	3121.09	5.52	0.52	*****		*XS*
C MOD	AT	961	58	1110.	591.	28246.	1.00	52.	380.
3121.25	0.05	0.21	0.0	3121.30	1.88	0.23			*XS*
D	AT	1565	604	1780.	823.	43134.	1.38	39.	540.
3122.25	0.10	1.04	0.02	3122.35	2.16	0.32			*XS*
D+.6	AT	1775	210	1300.	712.	35625.	1.32	102.	540.
3122.61	0.07	0.32	0.0	3122.68	1.83	0.26			*XS*
E-.6	AT	1948	173	1300.	339.	17103.	2.01	117.	595.
3125.20	0.46	*****	*****	3125.66	3.84	0.50	*****		*XS*
E-REG	AT	2160	212	1300.	467.	24897.	1.64	177.	595.
3126.31	0.70	0.84	0.0	3126.51	2.78	0.34			*XS*

END OF THIS PROFILE

COMPUTED WSC VALUES FOR: BOONE CREEK FINAL 10YR & 50 YR B TO E FINAL
PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECID BC-AP E-.6
WSC 3120.28 3125.20

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK FINAL 10YR & 50 YR. B TO E FINAL
PROFILE NUMBER 2, UPSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

BC-AP; KU/KD < 0.7 OR > 1.4	:		ALERTED USER
C MOD; KU/KD < 0.7 OR > 1.4	:		ALERTED USER
D ; KU/KD < 0.7 OR > 1.4	:		ALERTED USER
E-.6 ; FRDN FAILURE	:		
	:	WS = 3123.63 & FR = 1.91;	USED HIGHER WS
E-.6 ; WS NOT FOUND BETWEEN	:		
	:	WS = 3123.02 & WS = 3130.60;	USED DEL = 0.25
E-.6 ; FRDN FAILURE	:		
	:	WS = 3123.63 & FR = 1.91;	USED HIGHER WS
E-.6 ; WS NOT FOUND BETWEEN	:		
	:	WS = 3123.02 & WS = 3130.60;	USED WSMIN = WSC
E-.6 ; WS NOT FOUND	:		ASSUMED WS = WSC
E-REG; KU/KD < 0.7 OR > 1.4	:		ALERTED USER

WATER-SURFACE PROFILE FOR: BOONE CREEK FINAL 10YR & 50 YR B TO E FINAL
 PAGE 1 OF 1, PROFILE NUMBER 2, UPSTREAM COMPUTATIONS

```

=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
B AT 646 / 0 / 1900. / 1372. / 110939. / 1.01 / 50. / 400.
3126.56 / 0.03 / / 3120.59 / 1.38 / 0.12/ *IS*
-----
BC-TW AT 670 / 24 / 1900. / 1080. / 97596. / 1.14 / 1. / 300.
3120.56 / 0.05 / 0.01 / 0.02 / 3120.61 / 1.76 / 0.16 / -0.001 *XS*
-----
BC-AP AT 903 / 233 / 1900. / 269. / 17427. / 1.43 / 18. / 295.
3121.06 / 1.10 / 0.49 / 1.05 / 3122.16 / 7.05 / 0.64 / 0.005 *XS*
-----
C MOD AT 961 / 58 / 1900. / 894. / 55412. / 1.00 / 48. / 380.
3122.31 / 0.07 / 0.22 / 0.0 / 3122.26 / 2.12 / 0.21 / -0.001 *XS*
-----
D AT 1565 / 604 / 2720. / 1214. / 81004. / 1.27 / 24. / 540.
3123.02 / 0.10 / 0.72 / 0.01 / 3123.11 / 2.24 / 0.29 / 0.002 *XS*
-----
D+.6 AT 1775 / 210 / 2060. / 1035. / 63272. / 1.30 / 31. / 540.
3123.27 / 0.08 / 0.23 / 0.0 / 3123.35 / 1.99 / 0.27 / -0.004 *XS*
-----
E-.6 AT 1948 / 173 / 2060. / 483. / 24167. / 1.87 / 112. / 595.
3125.59 / 0.53 /***** /***** / 3126.12 / 4.26 / 0.56 /***** *XS*
-----
E-REG AT 2160 / 212 / 2060. / 686. / 40444. / 1.33 / 177. / 595.
3126.86 / 0.19 / 0.92 / 0.0 / 3127.04 / 3.00 / 0.38 / 0.000 *XS*
=====
    
```

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 11,DATE=11/ 3/77

COMPUTED WSC VALUES FOR: BOONE CREEK FINAL 10YR & 50 YR B TO E FINAL
PROFILE NUMBER 2, UPSTREAM COMPUTATIONS

SECID E-.6
WSC 3125.59

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 8,DATE=10/31/77

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK K WINK TO A-BOONE 500 YEAR
PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

A-BON; KU/KD < 0.7 OR > 1.4

ALERTED USER

WATER-SURFACE PROFILE FOR: BOONE CREEK K WINK TO A-BOONE 500 YEAR
PAGE 1 OF 1, PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID*	
K	AT	5030	0	5440.	1423.	133505.	1.00	8.	277.
3117.54	0.23			3117.77	3.82	0.34		*IS*	
A-BON	AT	6247	1217	3190.	414.	47267.	1.00	23.	80.
3120.79	0.93	3.59	0.35	3121.72	7.71	0.50	0.008	*XS*	

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAMS VERSION 77.180 *** PAGE COUNT= 10,DATE=10/31/77

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK K WINK TO A-BOONE 500 YEAR
PROFILE NUMBER 4, UPSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

A-BON; KU/KD < 0.7 OR > 1.4

ALERTED USER

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 6,DATE=10/26/77

PAGE 1 OF PROFILE NOTES FOR: BOONE CR 100YR CHECKING
PROFILE NUMBER 2, UPSTREAM COMPUTATIONS

SECID: ERROR(WARNING) MESSAGE: INTERMEDIATE RESULTS(IF ANY): ACTION TAKEN

A-BON: KU/KD < 0.7 OR > 1.4

ALERTED USER

100 YR

MLL

WATER-SURFACE PROFILE FOR: BOONE CR 100YR CHECKING
PAGE 1 OF 1, PROFILE NUMBER 2, UPSTREAM COMPUTATIONS

SFCID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
MS ELEV	HV	HF	HE	EG	V	FN	ACC	ID*	
K	AT	5030	0	3810.	1182.	98792.	1.00	10.	276.
		3116.64	0.16		3116.80	3.22	0.22		*IS*
A-BON	AT	6247	1217	2520.	349.	37343.	1.00	25.	78.
		3119.62	0.81	3.30	0.32	3120.43	7.22	0.50	0.000 *XS*

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 4,DATE=11/ 3/77

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK K-WINKLER TO A-BOONE 10&50 YR
PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECID: ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

A-BON: KU/KD < 0.7 OR > 1.4

ALERTED USER

WATER-SURFACE PROFILE FOR: BOONE CREEK K-WINKLER TO A-BOONE 10&50 YR
PAGE 1 OF 1, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	*ID*	
K	AT	5030	0	2080.	778.	51190.	1.04	17.	275.
3115.11		0.12			3115.23	2.67	0.23		*IS*
A-BON	AT	6247	1217	1110.	248.	23114.	1.00	27.	74.
3117.61		0.31	2.62	0.10	3117.92	4.47	0.34	-0.020	*XS*

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 12,DATE=11/ 3/77

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK K-WINKLER TO A-BOONE 10&50 YR
PROFILE NUMBER 5, UPSTREAM COMPUTATIONS

SECID: ERROR(WARNING) MESSAGE: INTERMEDIATE RESULTS(IF ANY): ACTION TAKEN

A-BON: KU/KD < 0.7 OR > 1.4

ALERTED USER

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 10, DATE=11/ 3/77

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK K-WINKLER TO A-BOONE 10650 YR
PROFILE NUMBER 4, UPSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

A-BON; KU/KD < 0.7 OR > 1.4

ALERTED USER

50 YR

WATER-SURFACE PROFILE FOR: BOONE CREEK K-WINKLER TO A-BOONE 10&50 YR
PAGE 1 OF 1, PROFILE NUMBER 4, UPSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV		HV	HF	HE	EG	V	FN	ACC	ID*
K	AT	5030	0	3320.	1083.	85885.	1.00	11.	276.
		3116.27	0.15		3116.42	3.06	0.22		*IS*
A-BON	AT	6247	1217	1900.	318.	32722.	1.00	25.	77.
		3119.02	0.56	2.95	0.20	3119.08	5.98	0.42	0.005 *XS*

END OF TH'S PROFILE

COMPUTED WSC VALUES FOR: BOONE CREEK CHECKING 500 YEAR B-E
PROFILE NUMBER 1. UPSTREAM COMPUTATIONS

SECID E-.6
WSC 3126.16

WATER-SURFACE PROFILE FOR: BOONE CREEK CHECKING 500 YEAR B-E
 PAGE 1 OF 1, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

=====										
SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW	
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID*		
=====										
B	AT	646	0	3200.	2622.	31258.	1.00	42.	400.	
3124.09	/	0.02	/		/	3124.11	/	1.22	/	0.08/
										IS

BC-TW	AT	670	24	3200.	2137.	293406.	1.02	-1.	300.	
3124.09	/	0.04	/	0.00	/	0.01 / 3124.13	/	1.50	/	0.10 / 0.001
										XS

BC-AP	AT	903	233	3200.	766.	59921.	1.20	-0.	295.	
3124.23	/	0.33	/	0.14	/	0.29 / 3124.55	/	4.18	/	0.34 / 0.000
										XS

C MOD	AT	961	58	3200.	1546.	134722.	1.00	44.	380.	
3124.56	/	0.07	/	0.07	/	0.0 / 3124.62	/	2.07	/	0.16 / -0.000
										XS

D	AT	1565	604	4190.	2179.	204700.	1.21	13.	540.	
3124.86	/	0.07	/	0.30	/	0.00 / 3124.93	/	1.92	/	0.19 / 0.001
										XS

D+.6	AT	1775	210	3290.	1916.	166476.	1.22	14.	540.	
3124.96	/	0.06	/	0.09	/	0.0 / 3125.01	/	1.72	/	0.18 / -0.000
										XS

E-.6	AT	1948	173	3290.	740.	39903.	1.57	105.	595.	
3126.16	/	0.48	/	*****	/	***** / 3126.64	/	4.44	/	0.59 / *****
										XS

E-REG	AT	2160	212	3290.	878.	63488.	1.09	96.	595.	
3127.31	/	0.24	/	0.91	/	0.0 / 3127.54	/	3.75	/	0.46 / 0.002
										XS

END OF THIS PROFILE

SEE SURFACE
 MAPS, NEXT

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK CHECKING 500 YEAR B-E
PROFILE NUMBER 1, UPSTREAM COMPUTATIONS.

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

BC-AP; KU/KD < 0.7 OR > 1.4 ; ALERTED USER

C MOD; KU/KD < 0.7 OR > 1.4 ; ALERTED USER

D ; KU/KD < 0.7 OR > 1.4 ; ALERTED USER

E-.6 ; WS NOT FOUND BETWEEN ; WS = 3124.71 & WS = 3130.60;

E-.6 ; WS NOT FOUND BETWEEN ; USED DEL = 0.25

E-.6 ; WS NOT FOUND ; WS = 3124.71 & WS = 3130.60;

E-.6 ; WS NOT FOUND ; USED WSMIN = WSC

E-REG; KU/KD < 0.7 OR > 1.4 ; ASSUMED WS = WSC

; ALERTED USER

CROSS-SECTION PROPERTIES FOR: BOONE CREEK CHECKING 500 YEAR B-E
 SECID=D+.6 AT DISTANCE= 1775 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3120.0	34	977	1.25	51	51	191	242	142
3129.9	4545	669990	1.19	537	547	3	540	68649
3131.6	5461	901199	1.19	540	552	0	540	90266

CROSS-SECTION PROPERTIES FOR: BOONE CREEK CHECKING 500 YEAR B-E
 SECID=E-.6 AT DISTANCE= 1948 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3122.0	57	3097	1.00	25	27	181	206	484
3130.6	3123	418186	1.22	595	604	0	595	36784

CROSS-SECTION PROPERTIES FOR: BOONE CREEK CHECKING 500 YEAR B-E
 SECID=E-REG AT DISTANCE= 2160 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3122.0	43	2065	1.00	23	24	182	204	331
3131.9	3234	481001	1.18	558	580	0	595	40639
3135.0	4964	933894	1.21	558	592	0	595	76281

CROSS-SECTION PROPERTIES FOR: BOONE CREEK CHECKING 500 YEAR
 SECID=B AT DISTANCE= 646 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3116.0	133	5321	1.50	145	148	58	231	592
3125.9	3285	445858	1.03	381	392	14	400	53976
3130.5	5118	894374	1.04	400	420	0	400	101833

CROSS-SECTION PROPERTIES FOR: BOONE CREEK CHECKING 500 YEAR
 SECID=BC-TW AT DISTANCE= 670 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3113.0	6	349	1.00	6	7	4	10	38
3122.9	1780	218380	1.03	299	313	1	300	24222
3127.0	3018	513942	1.00	304	323	-3	300	53850

CROSS-SECTION PROPERTIES FOR: BOONE CREEK CHECKING 500 YEAR
 SECID=BC-AP AT DISTANCE= 903 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3114.0	707	409	1.00	7	9	18	25	46
3123.9	1822	53231	1.23	179	209	1	295	7205
3130.0		224868	1.05	183	237	-2	295	31885

CROSS-SECTION PROPERTIES FOR: BOONE CREEK CHECKING 500 YEAR
 SECID=C MOD AT DISTANCE= 961 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3118.0	63	2784	1.00	34	35	69	103	490
3127.9	2554	278666	1.00	336	364	0	380	39935
3130.0	3260	412168	1.00	336	373	0	380	57582

CROSS-SECTION PROPERTIES FOR: BOONE CREEK CHECKING 500 YEAR
 SECID=D AT DISTANCE= 1555 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3119.0	19	482	1.00	23	23	218	241	96
3128.9	4330	619643	1.19	536	546	4	540	63883
3131.0	5461	901191	1.19	540	552	0	540	90265

CROSS-SECTION PROPERTIES FOR: BOONE CREEK CHECKING 500 YEAR B-E
 SECID=B AT DISTANCE= 646 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3116.0	133	5321	1.50	145	148	58	231	592
3125.9	3285	445858	1.03	381	392	14	400	53976
3130.5	5118	894374	1.04	400	420	0	400	101833

CROSS-SECTION PROPERTIES FOR: BOONE CREEK CHECKING 500 YEAR B-E
 SECID=BC-TW AT DISTANCE= 670 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3113.0	6	349	1.00	6	7	4	10	38
3122.9	1780	218380	1.03	299	313	1	300	24222
3127.0	3018	513942	1.00	304	323	-3	300	53850

CROSS-SECTION PROPERTIES FOR: BOONE CREEK CHECKING 500 YEAR B-E
 SECID=BC-AP AT DISTANCE= 903 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3114.0	8	409	1.00	7	9	18	25	46
3123.9	707	53231	1.23	179	209	1	295	7205
3130.0	1822	224868	1.05	183	237	-2	295	31885

CROSS-SECTION PROPERTIES FOR: BOONE CREEK CHECKING 500 YEAR B-E
 SECID=C MOD AT DISTANCE= 961 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3118.0	63	2784	1.00	34	35	69	103	490
3127.9	2554	278666	1.00	336	364	0	380	39935
3130.0	3260	412168	1.00	336	373	0	380	57582

CROSS-SECTION PROPERTIES FOR: BOONE CREEK CHECKING 500 YEAR B-E
 SECID=D AT DISTANCE= 1565 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3119.0	19	482	1.00	23	23	218	241	96
3128.4	4330	619643	1.19	536	546	4	540	63883
3131.0	5461	901191	1.19	540	552	0	540	90265

INPUT SUMMARY FOR: BOONE CREEK CHECKING 500 YEAR B-E

8 CROSS SECTIONS SPECIFIED (OR ASSUMED)

FOUND 8 TYPE 3 CARDS

KEPT 8 CROSS SECTIONS FOR EDITING

8 " " VALID FOR PROPERTY COMPUTATIONS

8 " " " " PROFILE "

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8
.....5.....0.....5.....0.....	.....0.....5.....0.....	.....0.....5.....0.....	.....0.....5.....0.....	.....0.....5.....0.....	.....0.....5.....0.....	.....0.....5.....0.....	.....0.....5.....0.....	.....0.....5.....0.....
5 443	0	1 31306	30	1 31298	31	1 31293	60	1 31286 100 1 31265
5 444	120	1 31250	130	1 31247	150	1 31246	170	1 31246 177 2 31245
5 445	179	2 31231	183	2 31206	188	2 31192	190	2 31188 195 2 31192
5 446	202	2 31192	204	2 31213	208	3 31226	215	3 31249 250 3 31244
5 447	300	3 31258	350	3 31259	450	3 31247	550	3 31244 595 3 31243
5 448	595	3 31304						
6 450	1 2 060 060	4 5 045 050	1 2 040 030					
3 480	E-REG 0 26	3 3122	2160 99 99					
5 483	0	1 31312	30	1 31304	31	1 31299	60	1 31292 100 1 31271
5 484	133	1 31274	133	1 31350	170	1 31350	170	1 31272 177 2 31271
5 485	179	2 31237	183	2 31212	188	2 31198	190	2 31194 195 2 31198
5 486	202	2 31198	204	2 31219	208	3 31232	215	3 31255 250 3 31250
5 487	300	3 31264	350	3 31265	450	3 31253	550	3 31250 595 3 31249
5 488	595	3 31310						
6 490	1 2 060 060	4 5 045 050	1 2 040 030					

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8
1	1	BOONE CREEK	CHECKING	500	YEAR	B-E	8	1 02 99 10
2	2	312409						
3	200	B	1 20	2 3116	646	99 99		
4	201	3200						
5	203	0	1 31305	0 1 31263	10 1 31264	25 1 31247	37 1 31264	
5	204	54	1 31187	64 1 31125	67 1 31114	68 1 31108	73 1 31125	
5	205	82	1 31145	86 1 31149	90 2 31172	110 2 31167	120 2 31154	
5	206	190	2 31154	300 2 31170	310 2 31180	400 2 31199	400 2 31305	
6	210	2 3 050	050 1 2 045	045				
3	230	BC-TW 0	12 2 3113	670	99 99		07	
5	233	-4	1 31264	1 1 31229	1 1 31170	3 1 31154	5 1 31117	
5	234	9	1 31117	12 2 31154	19 2 31154	200 2 31170	210 2 31180	
5	235	300	2 31199	300 2 31270				
6	239	1 2 025	025 1 2 040	040				
3	260	BC-AP 0	21 3 3114	903	99 99		10	
5	263	-3	1 31245	0 1 31242	9 1 31221	18 2 31217	18 2 31129	
5	264	25	2 31129	25 3 31217	36 3 31218	45 3 31228	55 3 31210	
5	265	62	3 31211	73 3 31211	86 3 31219	100 3 31222	100 3 31300	
5	266	215	3 31300	215 3 31177	250 3 31185	270 3 31183	295 3 31194	
5	267	295	3 31300					
6	269	1 2 050	050 1 2 025	025 1 2 050	050			
3	300	C MOD 0	23 1 3118	961	99 99			
5	303	0	1 31300	0 1 31276	36 1 31271	41 1 31266	48 1 31222	
5	304	62	1 31192	67 1 31183	79 1 31165	87 1 31158	94 1 31150	
5	305	98	1 31148	101 1 31158	104 1 31189	136 1 31192	150 1 31194	
5	306	200	1 31197	264 1 31192	264 1 31300	308 1 31300	308 1 31195	
5	307	343	1 31202	380 1 31202	380 1 31300			
6	309	1 2 050	050					
3	400	D	1 21 3 3119	1565	99 99			
4	401	4190						
5	403	0	1 31305	16 1 31234	40 1 31222	100 1 31221	150 1 31202	
5	404	163	1 31200	200 1 31192	218 2 31190	220 2 31181	222 2 31177	
5	405	225	2 31178	232 2 31181	237 2 31186	240 2 31187	244 3 31204	
5	406	260	3 31203	300 3 31202	400 3 31206	500 3 31211	540 3 31212	
5	407	540	3 31310					
6	409	1 2 060	060 2 3 050	040 1 2 040	035			
3	415	D+.6 1	21 3 3120	1775	99 99			
4	416	3290						
5	418	0	1 31311	16 1 31240	40 1 31228	100 1 31227	150 1 31208	
5	419	163	1 31206	200 1 31198	218 2 31196	220 2 31187	222 2 31183	
5	420	225	2 31184	232 2 31187	237 2 31192	240 2 31193	244 3 31210	
5	421	260	3 31209	300 3 31208	400 3 31212	500 3 31217	540 3 31218	
5	422	540	3 31316					
6	425	1 2 060	060 2 3 050	040 1 2 040	035			
3	440	E-.6 0	26 3 3122	1948	99 99		08	

*** INPUT CARD PRINTOUT ***

USE

	1	2	3	4	5	6	7	8
1	1	BOONE CREEK	CHECKING	100 YEAR	B-E	8	1 02 99 10	
2	2	312194						
3	200	B	1 20	2 3116	646.99 99			
4	201	2520						
5	203	0	1 31305	0 1 31263	10 1 31264	25 1 31247	37 1 31264	
5	204	54	1 31187	64 1 31125	67 1 31114	68 1 31108	73 1 31125	
5	205	82	1 31145	86 1 31149	90 2 31172	110 2 31167	120 2 31154	
5	206	190	2 31154	300 2 31170	310 2 31180	400 2 31199	400 2 31305	
6	210	2 3 050 050	1 2 045 045					
3	230	BC-TW 0	12 2 3113	670.99 99			07	
5	233	-4	1 31264	1 1 31229	1 1 31170	3 1 31154	5 1 31117	
5	234	9	1 31117	12 2 31154	19 2 31154	200 2 31170	210 2 31180	
5	235	300	2 31199	300 2 31270				
6	239	1 2 025 025	1 2 040 040					
3	260	BC-AP 0	21 3 3114	903.99 99			10	
5	263	-3	1 31245	0 1 31242	9 1 31221	18 2 31217	18 2 31129	
5	264	25	2 31129	25 3 31217	36 3 31218	45 3 31228	55 3 31210	
5	265	62	3 31211	73 3 31211	86 3 31219	100 3 31222	100 3 31300	
5	266	215	3 31300	215 3 31177	250 3 31185	270 3 31183	295 3 31194	
5	267	295	3 31300					
6	269	1 2 050 050	1 2 025 025	1 2 050 050				
3	300	C MOD 0	23 1 3118	961.99 99				
5	303	0	1 31300	0 1 31276	36 1 31271	41 1 31266	48 1 31222	
5	304	62	1 31192	67 1 31183	79 1 31165	87 1 31158	94 1 31150	
5	305	98	1 31148	101 1 31158	104 1 31189	136 1 31192	150 1 31194	
5	306	200	1 31197	264 1 31192	264 1 31300	308 1 31300	308 1 31195	
5	307	343	1 31202	380 1 31202	380 1 31300			
6	309	1 2 050 050						
3	400	D	1 21 3 3119	1565.99 99				
4	401	3090						
5	403	0	1 31305	16 1 31234	40 1 31222	100 1 31221	150 1 31202	
5	404	163	1 31200	200 1 31192	218 2 31190	220 2 31181	222 2 31177	
5	405	225	2 31178	232 2 31181	237 2 31186	240 2 31187	244 3 31204	
5	406	260	3 31203	300 3 31202	400 3 31206	500 3 31211	540 3 31212	
5	407	540	3 31310					
6	409	1 2 060 060	2 3 050 040	1 2 040 035				
3	415	D+.6	1 21 3 3120	1775.99 99				
4	416	2380						
5	418	0	1 31311	16 1 31240	40 1 31228	100 1 31227	150 1 31208	
5	419	163	1 31206	200 1 31198	218 2 31196	220 2 31187	222 2 31183	
5	420	225	2 31184	232 2 31187	237 2 31192	240 2 31193	244 3 31210	
5	421	260	3 31209	300 3 31208	400 3 31212	500 3 31217	540 3 31218	
5	422	540	3 31316					
6	425	1 2 060 060	2 3 050 040	1 2 040 035				
3	440	E-.6	0 26 3 3122	1948.99 99			08	

*** INPUT CARD PRINTOUT ***

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.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0
5 443 0 1 31306 30 1 31298 31 1 31293 60 1 31286 100 1 31265
5 444 120 1 31250 130 1 31247 150 1 31246 170 1 31246 177 2 31245
5 445 179 2 31231 183 2 31206 188 2 31192 190 2 31188 195 2 31192
5 446 202 2 31192 204 2 31213 208 3 31226 215 2 31249 250 3 31244
5 447 300 3 31258 350 3 31259 450 3 31247 550 3 31244 595 3 31243
5 448 595 3 31304
6 450 1 2 060 060 4 5 045 050 1 2 040 030
3 480 E-REG 0 26 3 3122 2160 99 99
5 483 0 1 31312 30 1 31304 31 1 31299 60 1 31292 100 1 31271
5 484 133 1 31274 133 1 31350 170 1 31350 170 1 31272 177 2 31271
5 485 179 2 31237 183 2 31212 188 2 31198 190 2 31194 195 2 31198
5 486 202 2 31198 204 2 31219 208 3 31232 215 3 31255 250 3 31250
5 487 300 3 31264 350 3 31265 450 3 31253 550 3 31250 595 3 31249
5 488 595 3 31310
6 490 1 2 060 060 4 5 045 050 1 2 040 030
```


INPUT SUMMARY FOR: BOONE CREEK CHECKING 100 YEAR B-E

8 CROSS SECTIONS SPECIFIED (OR ASSUMED)

FOUND 8 TYPE 3 CARDS

KEPT 8 CROSS SECTIONS FOR EDITING

8 " " VALID FOR PROPERTY COMPUTATIONS

8 " " " " PROFILE "

CROSS-SECTION PROPERTIES FOR: BOONE CREEK CHECKING 100 YEAR
 SECID=B AT DISTANCE= 646 B-E
 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3116.0	133	5321	1.50	145	148	58	231	592
3125.9	3285	445858	1.03	381	392	14	400	53976
3130.5	5118	894374	1.04	400	420	0	400	101833

CROSS-SECTION PROPERTIES FOR: BOONE CREEK CHECKING 100 YEAR
 SECID=BC-TW AT DISTANCE= 670 B-E
 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3113.0	6	349	1.00	6	7	4	10	38
3122.9	1780	218380	1.03	299	313	1	300	24222
3127.0	3018	513942	1.00	304	323	-3	300	53850

CROSS-SECTION PROPERTIES FOR: BOONE CREEK CHECKING 100 YEAR
 SECID=BC-AP AT DISTANCE= 903 B-E
 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3114.0	8	409	1.00	7	9	18	25	46
3123.9	707	53231	1.23	179	209	1	295	7205
3130.0	1822	224868	1.05	183	237	-2	295	31885

CROSS-SECTION PROPERTIES FOR: BOONE CREEK CHECKING 100 YEAR
 SECID=C MOD AT DISTANCE= 961 B-E
 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3118.0	63	2784	1.00	34	35	69	103	490
3127.9	2554	278666	1.00	336	364	0	380	39935
3130.0	3260	412168	1.00	336	373	0	380	57582

CROSS-SECTION PROPERTIES FOR: BOONE CREEK CHECKING 100 YEAR
 SECID=D AT DISTANCE= 1565 B-E
 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3119.0	19	482	1.00	23	23	218	241	96
3128.9	4330	619643	1.19	536	546	4	540	63883
3131.0	5461	901191	1.19	540	552	0	540	90265

CROSS-SECTION PROPERTIES FOR: BOONE CREEK CHECKING 100 YEAR B-E
 SECID=D+.6 AT DISTANCE= 1775 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3120.0	34	977	1.25	51	51	191	242	142
3129.9	4545	669990	1.19	537	547	3	540	68649
3131.6	5461	901199	1.19	540	552	0	540	90266

CROSS-SECTION PROPERTIES FOR: BOONE CREEK CHECKING 100 YEAR B-E
 SECID=E-.6 AT DISTANCE= 1948 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3122.0	57	3097	1.00	25	27	181	206	484
3130.6	3123	418186	1.22	595	604	0	595	36784

CROSS-SECTION PROPERTIES FOR: BOONE CREEK CHECKING 100 YEAR B-E
 SECID=E-REG AT DISTANCE= 2160 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3122.0	43	2065	1.00	23	24	182	204	331
3131.9	3234	481001	1.18	558	580	0	595	40639
3135.0	4964	933894	1.21	558	592	0	595	76281

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK CHECKING 100 YEAR B-E
 PROFILE NUMBER 1. UPSTREAM COMPUTATIONS

SECID	ERROR(WARNING) MESSAGE	INTERMEDIATE RESULTS(IF ANY)	ACTION TAKEN
BC-AP	KU/KD < 0.7 OR > 1.4		ALERTED USER
C MOD	KU/KD < 0.7 OR > 1.4		ALERTED USER
D	KU/KD < 0.7 OR > 1.4		ALERTED USER
E-.6	FRDN FAILURE	WS = 3123.60 & FR = 2.22	USED HIGHER WS
E-.6	FRDN FAILURE	WS = 3123.63 & FR = 2.20	USED HIGHER WS
E-.6	WS NOT FOUND BETWEEN	WS = 3123.58 & WS = 3130.60	USED DEL = 0.25
E-.6	FRDN FAILURE	WS = 3123.60 & FR = 2.22	USED HIGHER WS
E-.6	FRDN FAILURE	WS = 3123.63 & FR = 2.20	USED HIGHER WS
E-.6	WS NOT FOUND BETWEEN	WS = 3123.58 & WS = 3130.60	USED WSMIN = WSC
E-.6	WS NOT FOUND		ASSUMED WS = WSC
E-REG	KU/KD < 0.7 OR > 1.4		ALERTED USER

WATER-SURFACE PROFILE FOR: BOONE CREEK CHECKING 100 YEAR 8-E
 PAGE 1 OF 1, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECID	AT	WS ELEV	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
		HV	HF	HE	EG	V	FN	ACC	ID*
B	AT	646 / 3121.94	0 / 0.03	2520. /	1857. / 3121.97	181227. / 1.36	1.00 / 0.11	47. /	400. / *IS*
BC-TW	AT	670 / 3121.94	24 / 0.05	2520. / 0.01	1493. / 3121.99	164230. / 1.69	1.06 / 0.13	1. / 0.000	300. / *XS*
BC-AP	AT	903 / 3122.29	233 / 0.83	2520. / 0.34	426. / 3123.11	26121. / 5.91	1.52 / 0.57	8. / 0.000	295. / *XS*
C MOD	AT	961 / 3123.21	58 / 0.07	2520. / 0.17	1153. / 3123.28	83842. / 2.18	1.00 / 0.19	46. / 0.000	380. / *XS*
D	AT	1565 / 3123.68	604 / 0.08	3090. / 0.47	1560. / 3123.75	119934. / 1.98	1.24 / 0.23	15. / 0.001	540. / *XS*
D+.6	AT	1775 / 3123.83	210 / 0.06	2380. / 0.14	1327. / 3123.90	92959. / 1.79	1.26 / 0.22	19. / -0.000	540. / *XS*
E-.6	AT	1948 / 3125.73	173 / 0.55	2380. / *****	540. / *****	27298. / 3126.28	1.81 / 4.40	110. / 0.58	595. / ***** *XS*
E-REG	AT	2160 / 3127.01	212 / 0.19	2380. / 0.93	752. / 3127.20	47556. / 3.16	1.21 / 0.39	177. / 0.001	595. / *XS*

END OF THIS PROFILE

COMPUTED WSC VALUES FOR: BOONE CREEK CHECKING 100 YEAR B-E
PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECID E-.6
WSC 3125.73

BOONE CREEK

CUL A-B

BASE ELEVATION = 11.48

Z = 0.55

Q	ELEV H1	ELEV H4	D2	D3	TYPE	C	C ADJUSTED
1780.0	19.62	*****	5.72	4.78	2	0.98	0.98
1780.0	19.79	17.81	6.20	6.33	3	0.98	0.98
1780.0	20.76	19.60	7.75	8.12	3	0.98	0.98
1780.0	21.21	20.22	8.34	8.74	3	0.98	0.98
1780.0	23.09	21.95	9.22	9.22	4	0.86	0.86
2720.0	22.04	*****	7.63	6.34	2	0.98	0.98
2720.0	22.24	19.60	8.17	8.12	3	0.98	0.98
2720.0	22.49	20.22	8.64	8.74	3	0.98	0.98
2720.0	24.61	21.95	9.22	9.22	4	0.86	0.86
3090.0	22.92	*****	8.32	6.90	2	0.98	0.98
3090.0	22.96	19.60	8.49	8.12	3	0.98	0.98
3090.0	23.13	20.22	8.88	8.74	3	0.98	0.98
3090.0	25.38	21.95	9.22	9.22	4	0.86	0.86
4190.0	TYPE.. 2 ENERGY EQUATIONS NOT BALANCED						
4190.0	27.10	*****	*****	*****	5	0.49	0.49
4190.0	28.26	21.95	9.22	9.22	4	0.86	0.86

$h_4 = 4.78$ $h_4/h_c > 1$
 $h_c = 4.78$
 Type 3 flow proved

$h_4 = 8.12$ $h_4/h_c > 1$
 $h_c = 6.24$
 Type 3 flow proved

$h_4 = 8.74$ $h_4/h_c > 1$
 $h_c = 1.10$
 Type 3 flow proved

BOONE CREEK

CUL A-B

BASE ELEVATION =

11.48

Z = 0.55

BARREL DEPTH	AREA	CONVEYANCE	TOP WIDTH	WETTED PERIMETER
0.0	0.0	0.0	30.00	32.21
0.369	11.06	322.5	30.00	34.43
0.738	22.13	979.6	30.00	36.64
1.106	33.19	1847.2	30.00	38.85
1.475	44.26	2869.2	30.00	41.06
1.844	55.32	4010.9	30.00	43.28
2.213	66.38	5248.2	30.00	45.49
2.582	77.45	6563.8	30.00	47.70
2.950	88.51	7944.3	30.00	49.92
3.319	99.58	9379.5	30.00	52.13
3.688	110.64	10861.4	30.00	54.34
4.057	121.70	12383.3	30.00	56.55
4.426	132.77	13939.9	30.00	58.77
4.794	143.83	15526.9	30.00	60.98
5.163	154.90	17140.5	30.00	63.19
5.532	165.96	18777.7	30.00	65.40
5.901	177.02	20435.8	30.00	67.62
6.270	188.09	22112.6	30.00	69.83
6.638	199.15	23806.2	30.00	72.04
7.007	210.22	25514.8	30.00	74.26
7.376	221.28	27237.1	30.00	76.47
7.745	232.34	28971.7	30.00	78.68
8.114	243.41	30717.6	30.00	80.89
8.482	254.47	32473.8	30.00	83.11
8.851	265.54	34239.3	30.00	115.32
9.220	276.60	29459.7	30.00	

1.16
1.16
1.16

BOONE CREEK

CUL A-B

BASE ELEVATION = 11.48

Z = 0.55

APPROACH ELEVATION	AREA	CONVEYANCE	ALPHA	TOP WIDTH	QC
12.00	3.5	68.4	1.000	6.2	15.02
12.77	10.0	270.9	1.000	10.7	54.60
13.54	20.0	678.1	1.000	15.4	129.18
14.31	33.6	1351.9	1.000	20.1	246.77
15.08	51.7	2307.9	1.000	26.5	409.45
15.85	112.3	4518.1	1.480	133.5	584.37
16.62	238.7	10035.0	1.367	194.9	1498.91
17.39	417.9	20028.3	1.184	247.8	3046.31
18.16	609.6	35361.5	1.074	262.7	5269.32
18.93	826.4	53383.4	1.050	300.6	7776.04
19.70	1072.5	75868.8	1.035	338.7	10829.72
20.47	1340.4	106822.3	1.015	349.9	14886.16
21.24	1610.4	143758.5	1.004	351.6	19557.56
22.01	1881.8	185110.2	1.001	353.3	24644.54
22.78	2154.5	230644.3	1.000	355.0	30118.68
23.55	2428.5	280170.1	1.001	356.7	35957.28
24.32	2703.8	333528.4	1.002	358.4	42141.71
25.09	2981.7	387117.3	1.010	366.3	48272.58
25.86	3269.1	442743.2	1.026	380.2	54393.25
26.63	3569.5	501651.8	1.050	400.0	60508.51
27.40	3877.5	572752.0	1.047	400.0	68506.44
28.17	4185.5	647457.9	1.045	400.0	76828.69
28.94	4493.5	725642.7	1.043	400.0	85463.13
29.71	4801.5	807191.4	1.041	400.0	94398.75
30.48	5109.5	891999.3	1.040	400.0	103625.69

BOONE CREEK

CUL A-8

BASE ELEVATION = 11.48

Z = 0.55

Q	ELEV H1	ELEV H4	D2	D3	TYPE	C	C ADJUSTED
2800.0	22.24	*****	7.78	6.46	2	0.98	0.98
2800.0	22.23	18.00	7.77	6.52	3	0.98	0.98
2800.0	22.20	18.50	7.74	7.02	3	0.98	0.98
2800.0	22.24	19.00	7.89	7.52	3	0.98	0.98
2800.0	22.36	19.50	8.16	8.02	3	0.98	0.98
2800.0	22.53	20.00	8.51	8.52	3	0.98	0.98
2800.0	22.85	20.50	9.06	9.02	3	0.98	0.98
2800.0	23.82	21.00	9.22	9.22	4	0.86	0.86
3000.0	22.71	*****	8.16	6.77	2	0.98	0.98
3000.0	22.68	18.50	8.11	7.02	3	0.98	0.98
3000.0	22.68	19.00	8.15	7.52	3	0.98	0.98
3000.0	22.75	19.50	8.35	8.02	3	0.98	0.98
3000.0	22.88	20.00	8.65	8.52	3	0.98	0.98
3000.0	23.24	20.50	9.22	9.02	3	0.98	0.98
3000.0	24.24	21.00	9.22	9.22	4	0.86	0.86
3300.0	23.41	*****	8.70	7.21	2	0.98	0.98
3300.0	23.38	19.00	8.65	7.52	3	0.98	0.98
3300.0	23.38	19.50	8.71	8.02	3	0.98	0.98
3300.0	23.52	20.00	9.04	8.52	3	0.98	0.98
3300.0	23.81	20.50	9.22	9.02	3	0.98	0.98
3300.0	24.92	21.00	9.22	9.22	4	0.86	0.86
3700.0	TYPE.. 2	ENERGY EQUATIONS NOT BALANCED					
3700.0	25.92	21.00	9.22	9.22	4	0.86	0.86
4000.0	TYPE.. 2	ENERGY EQUATIONS NOT BALANCED					
4000.0	26.34	*****	*****	*****	5	0.48	0.48
4000.0	26.75	21.00	9.22	9.22	4	0.86	0.86

BOONE CREEK

CUL A-B

BASE ELEVATION =

11.48

Z = 0.55

Q	ELEV H1	ELEV H4	D2	D3	TYPE	C	C ADJUSTED
1500.0	18.82	*****	5.10	4.26	2	0.98	0.98
1500.0	18.79	16.00	5.03	4.52	3	0.98	0.98
1500.0	18.91	17.00	5.40	5.52	3	0.98	0.98
1500.0	19.34	18.00	6.20	6.52	3	0.98	0.98
1500.0	19.64	18.50	6.65	7.02	3	0.98	0.98
1500.0	19.98	19.00	7.12	7.52	3	0.98	0.98
1500.0	20.35	19.50	7.59	8.02	3	0.98	0.98
1500.0	20.75	20.00	8.08	8.52	3	0.98	0.98
1500.0	21.17	20.50	8.58	9.02	3	0.98	0.98
1500.0	21.81	21.00	9.22	9.22	4	0.86	0.86
1700.0	19.40	*****	5.55	4.63	2	0.98	0.98
1700.0	19.40	17.00	5.62	5.52	3	0.98	0.98
1700.0	19.70	18.00	6.30	6.52	3	0.98	0.98
1700.0	19.95	18.50	6.72	7.02	3	0.98	0.98
1700.0	20.25	19.00	7.17	7.52	3	0.98	0.98
1700.0	20.59	19.50	7.64	8.02	3	0.98	0.98
1700.0	20.95	20.00	8.11	8.52	3	0.98	0.98
1700.0	21.36	20.50	8.61	9.02	3	0.98	0.98
1700.0	22.04	21.00	9.22	9.22	4	0.86	0.86
2090.0	20.45	*****	6.38	5.32	2	0.98	0.98
2090.0	20.43	17.00	6.33	5.52	3	0.98	0.98
2090.0	20.51	18.00	6.60	6.52	3	0.98	0.98
2090.0	20.66	18.50	6.93	7.02	3	0.98	0.98
2090.0	20.87	19.00	7.33	7.52	3	0.98	0.98
2090.0	21.13	19.50	7.76	8.02	3	0.98	0.98
2090.0	21.43	20.00	8.21	8.52	3	0.98	0.98
2090.0	21.79	20.50	8.70	9.02	3	0.98	0.98
2090.0	22.57	21.00	9.22	9.22	4	0.86	0.86
2300.0	21.00	*****	6.81	5.67	2	0.98	0.98
2300.0	20.98	18.00	6.85	6.52	3	0.98	0.98
2300.0	21.08	18.50	7.10	7.02	3	0.98	0.98
2300.0	21.24	19.00	7.44	7.52	3	0.98	0.98
2300.0	21.46	19.50	7.84	8.02	3	0.98	0.98
2300.0	21.73	20.00	8.28	8.52	3	0.98	0.98
2300.0	22.06	20.50	8.76	9.02	3	0.98	0.98
2300.0	22.90	21.00	9.22	9.22	4	0.86	0.86
2600.0	21.75	*****	7.40	6.15	2	0.98	0.98
2600.0	21.71	18.00	7.34	6.52	3	0.98	0.98
2600.0	21.73	18.50	7.44	7.02	3	0.98	0.98
2600.0	21.83	19.00	7.68	7.52	3	0.98	0.98
2600.0	21.98	19.50	8.01	8.02	3	0.98	0.98
2600.0	22.19	20.00	8.40	8.52	3	0.98	0.98
2600.0	22.49	20.50	8.89	9.02	3	0.98	0.98
2600.0	23.43	21.00	9.22	9.22	4	0.86	0.86

BOONE CREEK

CUL A-B

BASE ELEVATION = 11.48

Z = 0.55

BARREL DEPTH	AREA	CONVEYANCE	TOP WIDTH	WETTED PERIMETER
0.0	0.0	0.0	30.00	
0.369	11.06	322.5	30.00	32.21
0.738	22.13	979.6	30.00	34.43
1.106	33.19	1847.2	30.00	36.64
1.475	44.26	2869.2	30.00	38.85
1.844	55.32	4010.9	30.00	41.06
2.213	66.38	5248.2	30.00	43.28
2.582	77.45	6563.8	30.00	45.49
2.950	88.51	7944.3	30.00	47.70
3.319	99.58	9379.5	30.00	49.92
3.688	110.64	10861.4	30.00	52.13
4.057	121.70	12383.3	30.00	54.34
4.426	132.77	13939.9	30.00	56.55
4.794	143.83	15526.9	30.00	58.77
5.163	154.90	17140.5	30.00	60.98
5.532	165.96	18777.7	30.00	63.19
5.901	177.02	20435.8	30.00	65.40
6.270	188.09	22112.6	30.00	67.62
6.638	199.15	23806.2	30.00	69.83
7.007	210.22	25514.8	30.00	72.04
7.376	221.28	27237.1	30.00	74.26
7.745	232.34	28971.7	30.00	76.47
8.114	243.41	30717.6	30.00	78.68
8.482	254.47	32473.8	30.00	80.89
8.851	265.54	34239.3	30.00	83.11
9.220	276.60	29459.7	30.00	115.32

BOONE CREEK

CUL A-B

BASE ELEVATION = 11.48

Z = 0.55

APPROACH ELEVATION	AREA	CONVEYANCE	ALPHA	TOP WIDTH	QC
12.00	3.5	68.4	1.000	6.2	15.02
12.77	10.0	270.9	1.000	10.7	54.60
13.54	20.0	678.1	1.000	15.4	129.18
14.31	33.6	1351.9	1.000	20.1	246.77
15.08	51.7	2307.9	1.000	26.5	409.45
15.85	112.3	4518.1	1.480	133.5	584.37
16.62	238.7	10035.0	1.367	194.9	1498.91
17.39	414.9	20028.3	1.184	247.8	3046.31
18.16	609.6	35361.5	1.074	262.7	5269.32
18.93	826.4	53383.4	1.050	300.6	7776.04
19.70	1072.5	75868.8	1.035	338.7	10829.72
20.47	1340.4	106822.3	1.015	349.9	14886.16
21.24	1610.4	143758.5	1.004	351.6	19557.56
22.01	1881.8	185110.2	1.001	353.3	24644.54
22.78	2154.5	230644.3	1.000	355.0	30118.68
23.55	2428.5	280170.1	1.001	356.7	35957.28
24.32	2703.8	333528.4	1.002	358.4	42141.71
25.09	2981.7	387117.3	1.010	366.3	48272.58
25.86	3269.1	442743.2	1.026	380.2	54393.25
26.63	3569.5	501651.8	1.050	400.0	60508.51
27.40	3877.5	572752.0	1.047	400.0	68506.44
28.17	4185.5	647457.9	1.045	400.0	76828.69
28.94	4493.5	725642.7	1.043	400.0	85463.13
29.71	4801.5	807191.4	1.041	400.0	94398.75
30.48	5109.5	891999.3	1.040	400.0	103625.69

Handwritten notes:
 Approach H-10
 Boone Creek

Q	ELEV H1	ELEV H4	D2	D3	TYPE	C	C ADJUSTED
1800.0	19.67	*****	5.77	4.82	2	0.98	0.98
1800.0	19.71	17.40	5.95	5.92	3	0.98	0.98
1800.0	19.76	17.60	6.07	6.12	3	0.98	0.98
1800.0	19.82	17.80	6.21	6.32	3	0.98	0.98
1800.0	19.90	18.00	6.36	6.52	3	0.98	0.98
1800.0	20.28	18.80	7.03	7.32	3	0.98	0.98
1800.0	20.40	19.00	7.20	7.52	3	0.98	0.98
1800.0	20.52	19.20	7.39	7.72	3	0.98	0.98
1800.0	20.65	19.40	7.57	7.92	3	0.98	0.98
1800.0	20.80	19.62	7.78	8.14	3	0.98	0.98
1800.0	21.96	20.79	9.22	9.22	4	0.86	0.86
2000.0	20.21	*****	6.19	5.17	2	0.98	0.98
2000.0	20.19	17.40	6.20	5.92	3	0.98	0.98
2000.0	20.22	17.60	6.29	6.12	3	0.98	0.98
2000.0	20.26	17.80	6.39	6.32	3	0.98	0.98
2000.0	20.31	18.00	6.51	6.52	3	0.98	0.98
2000.0	20.62	18.80	7.12	7.32	3	0.98	0.98
2000.0	20.72	19.00	7.28	7.52	3	0.98	0.98
2000.0	20.82	19.20	7.46	7.72	3	0.98	0.98
2000.0	20.94	19.40	7.63	7.92	3	0.98	0.98
2000.0	21.07	19.62	7.83	8.14	3	0.98	0.98
2000.0	22.23	20.79	9.22	9.22	4	0.86	0.86
2200.0	20.74	*****	6.61	5.51	2	0.98	0.98
2200.0	20.70	17.40	6.55	5.92	3	0.98	0.98
2200.0	20.71	17.60	6.58	6.12	3	0.98	0.98
2200.0	20.72	17.80	6.64	6.32	3	0.98	0.98
2200.0	20.75	18.00	6.72	6.52	3	0.98	0.98
2200.0	20.98	18.80	7.23	7.32	3	0.98	0.98
2200.0	21.06	19.00	7.38	7.52	3	0.98	0.98
2200.0	21.15	19.20	7.55	7.72	3	0.98	0.98
2200.0	21.25	19.40	7.71	7.92	3	0.98	0.98
2200.0	21.36	19.62	7.90	8.14	3	0.98	0.98
2200.0	22.53	20.79	9.22	9.22	4	0.86	0.86
2520.0	21.55	*****	7.24	6.02	2	0.98	0.98
2520.0	21.54	17.60	7.22	6.12	3	0.98	0.98
2520.0	21.52	17.80	7.19	6.32	3	0.98	0.98
2520.0	21.51	18.00	7.20	6.52	3	0.98	0.98
2520.0	21.61	18.80	7.49	7.32	3	0.98	0.98
2520.0	21.67	19.00	7.61	7.52	3	0.98	0.98
2520.0	21.73	19.20	7.74	7.72	3	0.98	0.98
2520.0	21.80	19.40	7.89	7.92	3	0.98	0.98
2520.0	21.89	19.62	8.06	8.14	3	0.98	0.98
2520.0	23.07	20.79	9.22	9.22	4	0.86	0.86
3200.0	23.18	*****	8.52	7.07	2	0.98	0.98
3200.0	23.15	18.80	8.46	7.32	3	0.98	0.98
3200.0	23.14	19.00	8.46	7.52	3	0.98	0.98
3200.0	23.14	19.20	8.49	7.72	3	0.98	0.98
3200.0	23.16	19.40	8.53	7.92	3	0.98	0.98
3200.0	23.18	19.62	8.62	8.14	3	0.98	0.98
3200.0	24.47	20.79	9.22	9.22	4	0.86	0.86

BOONE CREEK

CUL A-B

BASE ELEVATION =

11.48

Z =

0.55

C ADJUSTED

Q	ELEV H1	ELEV H4	D2	D3	TYPE	C	C ADJUSTED
800.0	16.61	*****	3.35	2.79	2	0.98	0.98
800.0	17.89	17.40	5.44	5.92	3	0.98	0.98
800.0	18.05	17.60	5.63	6.12	3	0.98	0.98
800.0	18.22	17.80	5.83	6.32	3	0.98	0.98
800.0	18.39	18.00	6.02	6.52	3	0.98	0.98
800.0	19.10	18.80	6.81	7.32	3	0.98	0.98
800.0	19.28	19.00	7.01	7.52	3	0.98	0.98
800.0	19.47	19.20	7.20	7.72	3	0.98	0.98
800.0	19.65	19.40	7.40	7.92	3	0.98	0.98
800.0	19.86	19.62	7.62	8.14	3	0.98	0.98
1000.0	17.30	*****	3.88	3.25	2	0.98	0.98
1000.0	18.16	17.40	5.48	5.92	3	0.98	0.98
1000.0	18.30	17.60	5.67	6.12	3	0.98	0.98
1000.0	18.45	17.80	5.86	6.32	3	0.98	0.98
1000.0	18.61	18.00	6.06	6.52	3	0.98	0.98
1000.0	19.27	18.80	6.83	7.32	3	0.98	0.98
1000.0	19.44	19.00	7.03	7.52	3	0.98	0.98
1000.0	19.62	19.20	7.23	7.72	3	0.98	0.98
1000.0	19.79	19.40	7.42	7.92	3	0.98	0.98
1000.0	19.99	19.62	7.64	8.14	3	0.98	0.98
1200.0	17.92	*****	4.38	3.68	2	0.98	0.98
1200.0	18.48	17.40	5.55	5.92	3	0.98	0.98
1200.0	18.60	17.60	5.73	6.12	3	0.98	0.98
1200.0	18.73	17.80	5.91	6.32	3	0.98	0.98
1200.0	18.87	18.00	6.10	6.52	3	0.98	0.98
1200.0	19.47	18.80	6.86	7.32	3	0.98	0.98
1200.0	19.63	19.00	7.06	7.52	3	0.98	0.98
1200.0	19.80	19.20	7.25	7.72	3	0.98	0.98
1200.0	19.96	19.40	7.45	7.92	3	0.98	0.98
1200.0	20.15	19.62	7.66	8.14	3	0.98	0.98
1400.0	18.53	*****	4.86	4.07	2	0.98	0.98
1400.0	18.85	17.40	5.64	5.92	3	0.98	0.98
1400.0	18.95	17.60	5.81	6.12	3	0.98	0.98
1400.0	19.06	17.80	5.98	6.32	3	0.98	0.98
1400.0	19.17	18.00	6.16	6.52	3	0.98	0.98
1400.0	19.71	18.80	6.91	7.32	3	0.98	0.98
1400.0	19.85	19.00	7.10	7.52	3	0.98	0.98
1400.0	20.01	19.20	7.29	7.72	3	0.98	0.98
1400.0	20.16	19.40	7.44	7.92	3	0.98	0.98
1400.0	20.34	19.62	7.69	8.14	3	0.98	0.98
1400.0	21.49	20.79	9.22	9.22	4	0.86	0.86
1600.0	19.11	*****	5.32	4.45	2	0.98	0.98
1600.0	19.26	17.40	5.76	5.92	3	0.98	0.98
1600.0	19.34	17.60	5.92	6.12	3	0.98	0.98
1600.0	19.42	17.80	6.08	6.32	3	0.98	0.98
1600.0	19.52	18.00	6.25	6.52	3	0.98	0.98
1600.0	19.98	18.80	6.96	7.32	3	0.98	0.98
1600.0	20.11	19.00	7.14	7.52	3	0.98	0.98
1600.0	20.25	19.20	7.33	7.72	3	0.98	0.98
1600.0	20.39	19.40	7.52	7.92	3	0.98	0.98
1600.0	20.56	19.62	7.73	8.14	3	0.98	0.98
1600.0	21.71	20.79	9.22	9.22	4	0.86	0.86

BOONE CREEK

CUL A-B

BASE ELEVATION = 11.48

Z = 0.55

BARREL DEPTH	AREA	CONVEYANCE	TOP WIDTH	WETTED PERIMETER
0.0	0.0	0.0	30.00	
0.369	11.06	322.5	30.00	32.21
0.738	22.13	979.6	30.00	34.43
1.106	33.19	1847.2	30.00	36.64
1.475	44.26	2869.2	30.00	38.85
1.844	55.32	4010.9	30.00	41.06
2.213	66.38	5248.2	30.00	43.28
2.582	77.45	6563.8	30.00	45.49
2.950	88.51	7944.3	30.00	47.70
3.319	99.58	9379.5	30.00	49.92
3.688	110.64	10861.4	30.00	52.13
4.057	121.70	12383.3	30.00	54.34
4.426	132.77	13939.9	30.00	56.55
4.794	143.83	15526.9	30.00	58.77
5.163	154.90	17140.5	30.00	60.98
5.532	165.96	18777.7	30.00	63.19
5.901	177.02	20435.8	30.00	65.40
6.270	188.09	22112.6	30.00	67.62
6.638	199.15	23806.2	30.00	69.83
7.007	210.22	25514.8	30.00	72.04
7.376	221.28	27237.1	30.00	74.26
7.745	232.34	28971.7	30.00	76.47
8.114	243.41	30717.6	30.00	78.68
8.482	254.47	32473.8	30.00	80.89
8.851	265.54	34239.3	30.00	83.11
9.220	276.60	29459.7	30.00	115.32

APPROACH ELEVATION	AREA	CONVEYANCE	ALPHA	TOP WIDTH	QC
12.00	3.5	68.4	1.000	6.2	15.02
12.77	10.0	270.9	1.000	10.7	54.60
13.54	20.0	678.1	1.000	15.4	129.18
14.31	33.6	1351.9	1.000	20.1	246.77
15.08	51.7	2307.9	1.000	26.5	409.45
15.85	112.3	4518.1	1.480	133.5	584.37
16.62	238.7	10035.0	1.367	194.9	1498.91
17.39	414.9	20028.3	1.184	247.8	3046.31
18.16	609.6	35361.5	1.074	262.7	5269.32
18.93	826.4	53383.4	1.050	300.6	7776.04
19.70	1072.5	75868.8	1.035	338.7	10829.72
20.47	1340.4	106822.3	1.015	349.9	14886.16
21.24	1610.4	143758.5	1.004	351.6	19557.56
22.01	1881.8	185110.2	1.001	353.3	24644.54
22.78	2154.5	230644.3	1.000	355.0	30118.68
23.55	2428.5	280170.1	1.001	356.7	35957.28
24.32	2703.8	333528.4	1.002	358.4	42141.71
25.09	2981.7	387117.3	1.010	366.3	48272.58
25.86	3269.1	442743.2	1.026	380.2	54393.25
26.63	3569.5	501651.8	1.050	400.0	60508.51
27.40	3877.5	572752.0	1.047	400.0	68506.44
28.17	4185.5	647457.9	1.045	400.0	75928.69
28.94	4493.5	725642.7	1.043	400.0	85163.13
29.71	4801.5	807191.4	1.041	400.0	94398.75
30.48	5109.5	891999.3	1.040	400.0	103625.69

CROSS-SECTION PROPERTIES FOR: BOONE CR 100YR
 SECID=K AT DISTANCE= 5030

CHECKING
 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3109.0	50	2343	1.00	28	29	214	242	377
3118.9	1792	194418	1.01	274	280	4	278	25857
3122.0	2654	369685	1.04	280	290	0	280	45548

CROSS-SECTION PROPERTIES FOR: BOONE CR 100YR
 SECID=A-BON AT DISTANCE= 6247

CHECKING
 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3112.0	26	713	1.00	34	35	31	65	129
3121.9	481	56839	1.00	63	71	19	82	7525
3126.5	855	104335	1.00	110	121	0	110	13524

INPUT SUMMARY FOR: BOONE CR 100YR

CHECKING

2 CROSS SECTIONS SPECIFIED (OR ASSUMED)

FOUND 2 TYPE 3 CARDS

KEPT 2 CROSS SECTIONS FOR EDITING

2 " " VALID FOR PROPERTY COMPUTATIONS

2 " " " " PROFILE "

*** INPUT CARD PRINTOUT ***

USE 2nd page

	1	2	3	4	5	6	7	8
.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....								
1	1 BOONE CR 100YR				CHECKING 2 4 02 99 10			
2	2 311664 311664 311664 311664							
3	1300	K	1	15	2	3109	5030 99 99	
4	1301	3810	3810	3810	3810			
5	1303	0	1	31205	14	1	31152	110 1 31123 185 2 31131 213 2 31106
5	1304	215	2	31073	216	2	31066	224 2 31068 231 2 31070 236 2 31074
5	1305	244	2	31096	266	2	31103	275 2 31146 279 2 31201 280 2 31220
6	1308	1	2	040 040	2	4	045 060	
3	1400	A-BON	1	19	1	3112	6247 99 99	
4	1401	2550	2520	2400	2600			
5	1402	0	1	31265	10	1	31263	20 1 31212 23 1 31208 30 1 31155
5	1403	31	1	31116	34	1	31112	37 1 31104 39 1 31105 42 1 31108
5	1404	45	1	31112	52	1	31120	57 1 31112 60 1 31110 62 1 31112
5	1405	65	1	31120	68	1	31141	85 1 31237 110 1 31253
6	1406	1	2	045 045				