

BOONE

CREEK

CROSS-SECTION PROPERTIES FOR: ROONE CREEK
 SECID=P AT DISTANCE= 4334

X-SECTION PROPERTIES
 PART 1 OF 2

WS	A	K	ALPHA	R	P	IFW	DFW	OC
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	35	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	125	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	139	55	216	2853
3146.8	346	24855	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: BOONE 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	240	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	221	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	279	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	121228	1.05	276	292	-2	303	13465
3150.6	1205	125478	1.05	277	293	-2	303	13917
3150.7	1233	129811	1.05	279	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

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	2.78
0.276	0.50	10.4	2.70	3.96
0.552	1.40	45.3	3.74	4.88
0.828	2.54	106.3	4.48	5.68
1.104	3.86	192.9	5.06	6.40
1.380	5.32	304.3	5.52	7.07
1.656	6.90	438.9	5.89	7.69
1.932	8.57	595.0	6.20	8.30
2.208	10.32	770.6	6.44	8.88
2.484	12.12	963.4	6.62	9.45
2.760	13.97	1171.0	6.76	10.01
3.036	15.85	1390.8	6.85	10.56
3.312	17.74	1620.1	6.89	11.11
3.588	19.65	1856.0	6.89	11.67
3.864	21.55	2095.2	6.85	12.23
4.140	23.43	2334.6	6.76	12.80
4.416	25.27	2570.4	6.62	13.38
4.692	27.08	2799.0	6.44	13.98
4.968	28.82	3016.1	6.20	14.61
5.244	30.49	3217.1	5.89	15.28
5.520	32.07	3396.6	5.52	16.00
5.796	33.53	3548.1	5.06	16.80
6.072	34.85	3663.2	4.48	17.72
6.348	35.99	3729.5	3.74	18.90
6.624	36.89	3722.9	2.70	21.68
6.900	37.39	3474.9	0.0	

BOONE CREEK

CULV P-R

BASE ELEVATION = 38.10

Z = 3.70

Q	ELEV H1	ELEV H4	D2	D3	TYRE	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	5.63	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	5.65	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	57.39	49.00	6.90	5.90	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	53.43	*****	*****	*****	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 H4	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	6.90	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	85.33	*****	*****	*****	6	0.85	0.85
900.0	92.48	49.00	6.90	6.90	4	0.85	0.85

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8
1	1	HOONE CREEK	OVER-LAND FLOOD PROFILES	CUL P-S	4	12	02	05 10
2	2	314710	314710	314710	314770	314770	314770	314790 314790 314790 314845
2	3	314845	314845					
3	100	P	1	21	1	3145	4334	99 99
4	101		825	850	875	1525	1550	1575 1825 1850 1875 2700
4	102		2725	2750				
5	105		-15	1	31550	0	1	31501 3 1 31469 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		67	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	P	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	31495 265 1 31491 289 1 31491 290 1 31493
5	207		313	1	31566	313	1	31513 318 1 31532 327 1 31537 327 1 31600
6	210	1	2	035	035			
3	300	P	0	15	1	3153	4807	99 99
5	305		20	1	31501	46	1	31537 65 1 31534 85 1 31530 94 1 31534
5	306		94	1	31529	119	1	31531 160 1 31535 160 1 31531 184 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	293	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

Corrected stream distance at Q.

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
P	WARNING	H5UB0	IS LESS THAN	GMIN	> GMIN

4

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	8000
3147.0	202	10852	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	159613	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=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-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	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

CROSS-SECTION PROPERTIES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-5
 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



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

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	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*	
K	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

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

PROSECID 0701 W-2000 R. STABLE 10/10/77 10:00 AM
WSC 3150.37 3153.99

STATION	WATER SURFACE ELEVATION (FEET)	CHANNEL BOTTOM ELEVATION (FEET)	WATER DEPTH (FEET)	WATER VELOCITY (FEET/SECOND)	DISCHARGE (CFS)
1000	3150.37	3140.00	10.37	1.50	155.5
1010	3151.00	3140.00	11.00	1.50	160.5
1020	3152.00	3140.00	12.00	1.50	165.5
1030	3153.99	3140.00	13.99	1.50	170.5

2

3

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 ; 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

Handwritten notes:
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Handwritten notes:
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10 YR

USE THIS RUN FOR OVERLAND PROFILE

WATER-SURFACE PROFILE FOR: BOONE CREEK OVERLAND FLOOD PROFILES FOR CUL P-S
 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	
P	AT	4334	0	850.	216.	11969.	1.00	49.	222.
		3147.19	0.24		3147.34	3.93	0.56		*IS*
Q	AT	4540	206	850.	182.	5883.	1.00	35.	309.
		3150.39	0	*****	3150.73	4.68	1.01	*****	*XS*
R	AT	4007	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*

cert. or

BASED ON DOWNSTREAM COMPUTATIONS CALL OR

Q total = Qovl + Qovr
 = 309 + 850 = 1209
 11/11/77 OK

END OF THIS PROFILE

54

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-5
PROFILE NUMBER 2, UPSTREAM COMPUTATIONS

SECID: Q R
WSC 3150.39 3154.00

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL-P-S
PROFILE NUMBER 13, 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 = 3150.41 & 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 ;

WATER-SURFACE PROFILE FOR: BOONE CREEK OVERLAND FLOOD PROFILES CUL P-S
 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

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK; OVER-LAND FLOOD PROFILES; LOCUL-R-S
PROFILE NUMBER: 4; UPSTREAM COMPUTATIONS

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

Q 1; WS TOO LOW; USED WSMIN = WSC

Q 2; WS NOT FOUND BETWEEN; WS = 3150.73 & WS = 3160.00; USED DEL = 0.25

Q 3; WS NOT FOUND; ASSUMED WS = WSC

R 1; WS TOO LOW; USED WSMIN = WSC

S 1; KU/KD < 0.7 OR > 1.4; ALERTED USER

S 2; RIGHT BANK EXTENDED; ALERTED USER

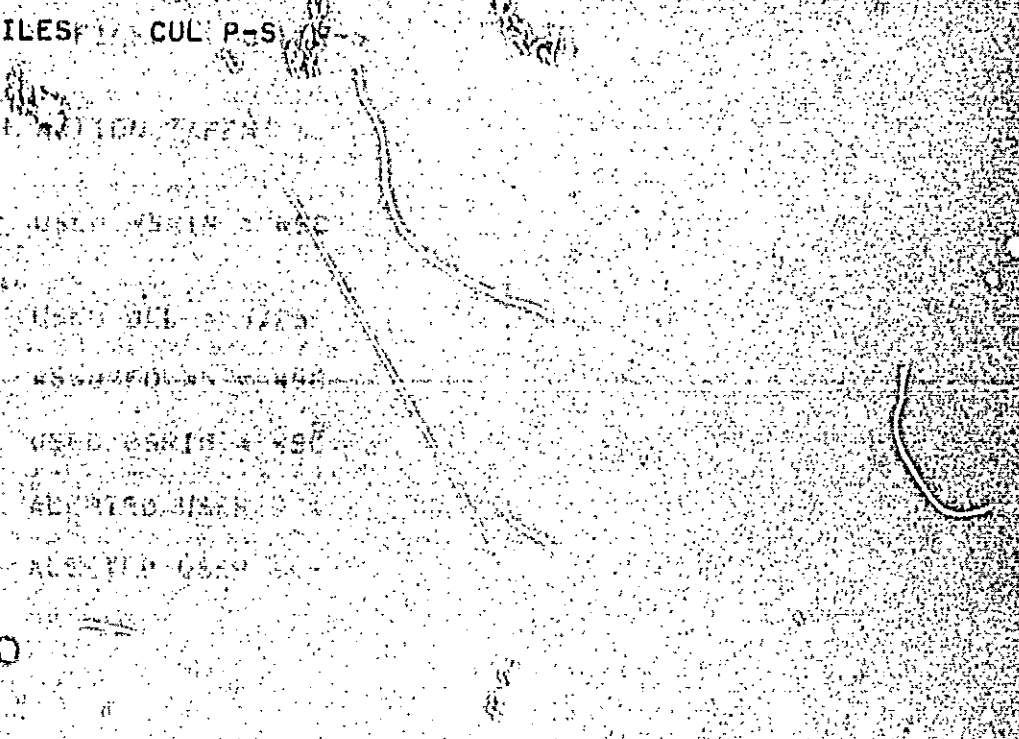
WATER-SURFACE PROFILE FOR BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-5
PAGE 1 OF 1, PROFILE NUMBER 4, DOWNSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID	
P	AT	4334	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	*****	*****	3151.20	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

COMPUTED WSC VALUES FOR: BOONE CREEK OVER-LAND-FLOOD PROFILES, CUL P-5
PROFILE NUMBER 4, UPSTREAM COMPUTATIONS

SECID=100
WSC 3150.73 3154.36



PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL-R-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

Q ; 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

S ; RIGHT BANK EXTENDED ; ALERTED USER

USE THIS PROFILE

50 1/2

WATER-SURFACE PROFILE FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CALCUL P-S
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*
=====
P AT 4334 / 0 / 1550. / 315. / 18536. / 1.00 / 5. / 257.
  3147.70 / 0.38 / / 3148.08 / 4.92 / 0.67 / *IS*
-----
Q AT 4540 / 206 / 1550. / 277. / 11673. / 1.00 / 32. / 313.
  3150.73 / 0.49 / ***** / ***** / 3151.22 / 5.59 / 0.99 / ***** *XS*
-----
R AT 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 AT 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*
=====

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CRIT.
OK SEE DRAWING LAMP.

END OF THIS PROFILE

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

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		
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

90-14

WATER-SURFACE PROFILE FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUP-S
 PAGE #1 OF 1, PROFILE NUMBER 6, CUPSTREAM 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*
=====
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*
-----
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

COMPUTED WSC VALUES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-5
PROFILE NUMBER 6. UPSTREAM COMPUTATIONS

SECTION NUMBER 1
WSC 3150.73 3154.38

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 100 ; WS TOO LOW ; USED WSMIN = WSC

Q 110 ; WS NOT FOUND BETWEEN ; WS = 3150.84 & WS = 3160.00 ; USED DEL = 0.25

Q 120 ; WS NOT FOUND ; ASSUMED WS = WSC

R 100 ; WS TOO LOW ; USED WSMIN = WSC

S 100 ; KU/KD < 0.7 OR > 1.4 ; ALERTED, USER

S 110 ; RIGHT BANK EXTENDED ; ALERTED, USER

WATER-SURFACE PROFILE FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-S
 PAGE 1 OF 1, PROFILE NUMBER 7, 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*
=====
P AT 4334 / 0 / 1825. / 354. / 22066. / 1.00 / 5. / 258.
 3147.90 / 0.41 / / 3148.31 / 5.16 / 0.66 / *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



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

SECID 0001
WSC 3150.84 3154.50

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
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

USE FOR OVERLAND

100%

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	LEW	REW	WS ELEV	HV	HF	HE	EG	V	FN	AGC	ID
P		AT	4334	0	1850.	334.	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*

CRIT
OK SEE DOWN

END OF THIS PROFILE

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

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

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. / 347 / 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

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

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;	
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

WATER-SURFACE PROFILE FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-S
 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.		
	3151.19	0.69	*****	3151.88	6.66	0.98	*****		*XS*		
R	AT	4907	267	2700.	420.	23965.	1.00	31.	299.		
	3154.97	0.64	3.73	0.0	3155.61	6.44	0.91	1.005	*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

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

SECID	Q	H
	WSC 3151.19	3154.87

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

USE THIS PROFILE 500-1R

WATER-SURFACE PROFILE FOR: BOONE CREEK, OVER-LAND FLOOD 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	0.16	0.09	0.0	3155.71	3.09	0.34	-0.000		*XS*

*CRIT. OR
SEE DRAW*

END OF THIS PROFILE

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

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		
Q	; WS NOT FOUND BETWEEN		USED WSMIN = WSC
		; WS = 3151.19 & 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

WATER-SURFACE PROFILE FOR: BOONE CREEK OVER-LAND FLOOD PROFILES CUL P-S
 PAGE 1 OF 1; PROFILE NUMBER 12. 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*
=====
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 77.130 *** 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
	3151.19	3154.89

*** 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	1850	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	0	15	1	3150	4540 99 99		
5	205	-50	1	31500	0	1	31541 37 1 31502 61 1 31499 100 1 31496	
5	206	200	1	31499	265	1	31496 265 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	P	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	5	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	

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 "

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
P	WARNING	HSUBO		IS LESS THAN	GMIN		> GMIN

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

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	6	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	95569	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	1558	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 PART 1 OF 2
 SECID=M AT DISTANCE= 4540 CUL P-S

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
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	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	10
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	11550	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

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	LE	REW	OC
3160.0	2698	376069	1.04	399	417	-121	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

7 10000 2 2 2 2
8 10001 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.	5083.	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 IN CUL. P-51
PROFILE NUMBER 1, DOWNSTREAM COMPUTATIONS

SECID P
WSC 3146.54 3150.39 3154.00 3148.92

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

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

S	; WS TOO LOW				
R	; WS NOT FOUND BETWEEN				ASSUMED WS = WSC
		; 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*	

CRIT upstream

END OF THIS PROFILE

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

SECID IN P... Q... R... S...
WSC 3147.14 3150.73 3154.38 3150.75



PAGE 1 OF 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				
R	; WS NOT FOUND BETWEEN				ASSUMED WS = WSC
		; WS = 3154.51	& WS = 3153.10;		
R	; WS NOT FOUND BETWEEN				USED DEL = 0.25
		; WS = 3154.51	& WS = 3153.10;		
R	; WS NOT FOUND				USED KE = 0.5
Q	; WS NOT FOUND BETWEEN				ASSUMED WS = WSC
		; WS = 3150.86	& WS = 3149.30;		
Q	; WS NOT FOUND BETWEEN				USED DEL = 0.25
		; WS = 3150.86	& WS = 3149.30;		
Q	; WS NOT FOUND				USED KE = 0.5
P	; WS NOT FOUND BETWEEN				ASSUMED WS = WSC
		; WS = 3147.34	& WS = 3145.30;		
P	; WS NOT FOUND BETWEEN				USED DEL = 0.25
		; WS = 3147.33	& WS = 3145.30;		
P	; WS NOT FOUND				USED KE = 0.5
					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

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	T.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*	

*CRIT 11
UP - 12*

END OF THIS PROFILE

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 ;

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 ;

Q ; WS NOT FOUND BETWEEN ; WS = 3151.19 & WS = 3149.30 ; USED DEL = 0.25

Q ; WS NOT FOUND ; USED KE = 0.5

P ; WS NOT FOUND BETWEEN ; ASSUMED WS = WSC

P ; WS NOT FOUND BETWEEN ; WS = 3147.92 & WS = 3145.30 ;

P ; WS NOT FOUND BETWEEN ; WS = 3147.92 & WS = 3145.30 ; USED DEL = 0.25

P ; WS NOT FOUND ; 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 4, DOWNSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW	WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID*
S		827	0	3090.	502.	31560.	1.27	-11.	270.	3154.03	0.75			3154.78	6.16	0.91		*IS*
R		4807	-20	2725.	394.	21719.	1.00	32.	297.	3154.87	0.75	*****	*****	3155.62	6.92	1.00	*****	*XS*
Q		4540	-267	2725.	405.	21767.	1.00	28.	313.	3151.19	0.70	*****	*****	3151.89	6.72	0.99	*****	*XS*
P		4334	-206	2725.	358.	22341.	1.00	5.	258.	3147.92	0.90	*****	*****	3148.82	7.62	1.00	*****	*XS*

CRIT UP
USE LAT

END OF THIS PROFILE

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

SECID	P	O	R	S
WSC	3147.92	3151.19	3154.87	3154.03

CROSS-SECTION PROPERTIES FOR: BOONE CREEK X-SECTION PROPERTIES
 SECID=T AT DISTANCE= 4964 PART. 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
3152.0	306	27337	1.13	100	103	7	106	2865
3152.1	317	28347	1.14	102	106	6	108	2966
3152.2	327	29393	1.14	104	108	6	111	3072
3152.3	337	30471	1.15	107	110	6	113	3181
3152.4	348	31586	1.15	109	113	6	115	3294
3152.5	359	32736	1.15	111	115	6	117	3412
3152.6	370	33921	1.15	114	117	5	119	3534
3152.7	382	35200	1.15	114	118	5	120	3691
3152.8	393	36512	1.15	115	119	5	120	3851
3152.9	405	37862	1.14	116	120	5	121	4016
3153.0	416	39246	1.14	117	120	5	121	4185
3153.1	428	40662	1.13	117	121	5	122	4357
3153.2	440	42115	1.13	118	122	4	122	4533
3153.3	452	43598	1.12	119	123	4	123	4712
3153.4	464	45119	1.12	120	124	4	124	4896
3153.5	476	46673	1.11	120	125	4	124	5082
3153.6	488	48256	1.11	121	125	4	125	5272
3153.7	500	49877	1.10	122	126	3	125	5465
3153.8	512	51526	1.10	123	127	3	126	5661
3153.9	525	53213	1.09	124	128	3	127	5860
3154.0	537	54932	1.09	124	129	3	127	6063
3154.1	549	56679	1.09	125	129	3	128	6268
3154.2	562	58464	1.08	126	130	2	128	6477
3154.3	575	60276	1.08	127	131	2	129	6689
3154.4	587	62125	1.07	127	132	2	129	6903
3154.5	600	64009	1.07	128	133	2	130	7121
3154.6	613	65915	1.07	129	133	2	131	7340
3154.7	626	67858	1.06	130	134	1	131	7563
3154.8	639	69829	1.06	131	135	1	132	7788
3154.9	652	71836	1.06	131	136	1	132	8016
3155.0	665	73876	1.05	132	137	1	133	8247
3155.1	678	75943	1.05	133	138	1	134	8480
3155.2	692	78047	1.05	134	138	0	134	8717
3155.3	705	80178	1.05	135	139	0	135	8955
3155.4	719	82348	1.04	135	140	0	135	9197
3155.5	732	84537	1.04	136	141	0	136	9442
3155.6	746	86753	1.04	137	142	0	137	9688
3155.7	760	89007	1.04	138	143	0	137	9938
3155.8	774	91287	1.03	139	143	0	138	10190
3155.9	787	93606	1.03	139	144	0	138	10445
3156.0	801	95958	1.03	140	145	0	139	10703
3156.1	816	98335	1.03	141	146	-1	140	10963
3156.2	830	100752	1.03	142	147	-1	140	11227
3156.3	844	103195	1.03	143	148	-1	141	11492
3156.4	858	105676	1.02	144	149	-1	141	11761

CROSS-SECTION PROPERTIES FOR: BOONE CREEK X-SECTION PROPERTIES T
 SECID=T AT DISTANCE= 4964 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
3156.5	873	108191	1.02	144	149	-1	142	12033
3156.6	887	110732	1.02	145	150	-2	143	12306
3156.7	902	113311	1.02	146	151	-2	143	12583
3156.8	916	115918	1.02	147	152	-2	144	12862
3156.9	931	118563	1.02	148	153	-2	144	13145
3157.0	946	121242	1.02	148	154	-2	145	13430
3157.1	966	111824	1.13	201	206	-3	197	11304
3157.2	986	114741	1.13	203	208	-3	199	11610
3157.3	1006	117705	1.12	205	211	-3	201	11919
3157.4	1027	120733	1.12	208	213	-3	203	12235
3157.5	1048	123816	1.12	210	215	-4	206	12557
3157.6	1069	126948	1.12	212	218	-4	208	12883
3157.7	1090	130144	1.11	215	220	-4	210	13216
3157.8	1112	133389	1.11	217	222	-4	212	13554
3157.9	1134	136700	1.11	219	225	-4	214	13898
3158.0	1156	140069	1.10	222	227	-5	216	14247
3158.1	1178	143487	1.10	224	229	-5	218	14601
3158.2	1201	146973	1.10	226	232	-5	220	14962
3158.3	1223	150510	1.10	229	234	-5	222	15328
3158.4	1246	154115	1.09	231	236	-6	224	15700
3158.5	1270	157780	1.09	233	239	-6	227	16078
3158.6	1293	161497	1.09	236	241	-6	229	16461
3158.7	1317	165283	1.09	238	243	-6	231	16850
3158.8	1341	169122	1.09	240	246	-6	233	17244
3158.9	1365	173032	1.08	243	248	-7	235	17645
3159.0	1389	177004	1.08	245	250	-7	237	18052
3159.1	1414	181029	1.08	247	253	-7	239	18463
3159.2	1439	185126	1.08	249	255	-7	241	18882
3159.3	1464	189277	1.07	252	257	-7	243	19305
3159.4	1489	193502	1.07	254	260	-8	245	19735
3159.5	1514	197791	1.07	256	262	-8	248	20172
3159.6	1540	202134	1.07	259	264	-8	250	20613
3159.7	1566	206553	1.07	261	267	-8	252	21061
3159.8	1592	211027	1.07	263	269	-9	254	21514
3159.9	1619	215577	1.06	266	271	-9	256	21974
3160.0	1646	220196	1.06	268	274	-9	258	22440
3160.1	1672	225119	1.06	270	276	-9	260	22909
3160.2	1700	230123	1.06	272	278	-9	262	23386
3160.3	1727	235182	1.06	274	280	-9	264	23866
3160.4	1754	240322	1.06	276	282	-9	266	24354
3160.5	1782	245530	1.06	279	284	-9	269	24848
3160.6	1810	250795	1.06	281	286	-9	271	25346
3160.7	1838	256142	1.06	283	289	-9	273	25851
3160.8	1867	261546	1.06	285	291	-9	275	26360
3160.9	1895	267033	1.06	287	293	-9	277	26877

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	8.5	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-T

BASE ELEVATION = 43.10

Z = 0.18

BARREL DEPTH	AREA	CONVEYANCE	TOP WIDTH	WETTED PERIMETER
0.00	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	9.00	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

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 2, DATE= 9/ 7/77

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	5828	1.00	28	31	31	59	883

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

FLOOD PROFILES

T-U
 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	286480	1.01	345	351	-9	335	30165

10 YR

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.	1905.	114092.	1.02	-3.	143.
3156.78		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

50 YR

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	REW
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	0.0	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

100 YR

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	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

500YR

WATER-SURFACE PROFILE FOR: BOONE CREEK FLOOD PROFILES
PAGE 1 OF 1, PROFILE NUMBER 4, 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*
=====
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*
=====
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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

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
3156.0	159	4264	1.00	317	317	50	367	638
3162.7	1866	229917	1.00	374	376	9	350	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	15512	1.00	269	261	16	276	2117
3169.5	2631	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	1.19	242	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	8	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
3160.0	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
8 720

0 2 0 2 0 2 0 2
0 0 0 0 0 0 0 0

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK OVERLAND FLOW 2ND TRY CUD-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	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	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	1650.	843.	67735.	1.00	5.	330.
3156.79	0.01	0.00	0.0	3156.80	0.77	0.08			*XS*
V	AT	5790	414	650.	168.	4676.	1.00	49.	368.
3158.03	0.23	*****	*****	3158.26	3.87	0.94			*XS*
W	AT	5995	205	650.	209.	7712.	1.00	17.	275.
3160.53	0.15	2.40	0.0	3160.68	3.11	0.61			*XS*
X	AT	6290	295	650.	147.	4564.	1.09	18.	225.
3163.98	0.33	3.54	0.09	3164.31	4.42	0.79			*XS*
Y	AT	6300	16	650.	112.	4735.	1.00	80.	285.
3168.62	0.52	*****	*****	3169.14	5.81	0.99			*XS*
Z	AT	6350	50	930.	689.	67760.	1.01	80.	237.
3169.21	0.03	0.10	0.0	3169.24	1.35	0.13			*XS*

OK

OK

OK

10
 UP
 Jump between Y-1 & W.
 in vicinity of W.

END OF THIS PROFILE

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*
X	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.	4559.	1.00	17.	275.
		3160.81	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.	6064.	1.00	30.	59.
		3151.31	2.44	0.99	0.0	3153.74	12.52	1.21	0.006 *XS*

Top of well

*Jump below
ok*

*10
Down*

END OF THIS PROFILE

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

USE

WATER-SURFACE PROFILE FOR: BOONE CREEK OVERLAND FLOW 2ND TRY CUL U-X
 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
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*
V	AT	5790	414	1250.	253.	8839.	1.00	18.	369.	3158.29	0.38	*****	*****	3158.67	4.93	1.01	*****	*XS*
W	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*
X	AT	6290	295	1250.	224.	9141.	1.11	16.	226.	3164.35	0.54	*****	*****	3164.88	5.58	0.81	*****	*XS*
Y	AT	6305	16	1250.	182.	9695.	1.00	69.	190.	3169.24	0.73	*****	*****	3169.98	6.87	0.99	*****	*XS*
Z	AT	6356	50	1520.	623.	89522.	1.02	80.	247.	3170.03	0.05	0.11	0.0	3170.09	1.85	0.16	-0.000	*XS*

SEE DIVISION 1058 316.21
 COMPD USE CRIT

Top of wall

50
 UP

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-1 V-1 V-1
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	:		:	
W	: WS NOT FOUND BETWEEN	:		:	ASSUMED WS = WSC
		:	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 = 3154.81 & WS = 3153.30;	:	
		:		:	USED DEL = 0.25
CULEX	: WS NOT FOUND BETWEEN	:		:	
		:	WS = 3154.81 & 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

50 YR DOWN

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	3160.23	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	8638	1.00	18	369
3158.29	0.33	*****	*****	3158.67	4.93	1.01	*****		*XS*
CULX	AT	5376	-414	1250	234	9318	1.00	15	306
3154.84	0.44	*****	*****	3155.28	5.34	0.99	*****		*XS*
U	AT	5340	-36	1920	319	21627	1.37	17	225
3154.25	0.77	*****	*****	3155.02	6.02	1.00	*****		*XS*

Wall at Rd.

Jump below (Expected)

50 Down

END OF THIS PROFILE

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	3168.21

*Proy
Error
(10/17)*

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: FROM 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: FROM FAILURE	: WS = 3158.37 & FR = 1.06:	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 = WSD
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 = 3164.57 & 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 = 3169.40 & 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	WS ELEV	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW	HF	HE	EG	V	FN	ACC	ID*
U	AT	5940	0	2220.	1380.	144016.	1.00	-0	324.							
		3157.72	0.04		3157.76	1.61	0.14									*IS*
CULEX	AT	5376	36	1500.	11580.	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*
U-2	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-3	AT	6290	295	1500.	255.	11330.	1.11	15.	226.							
		3164.50	0.60	*****	*****	3165.09	5.88	0.80	*****							*XS*
U-4	AT	6306	16	1500.	209.	11802.	1.00	65.	194.							
		3169.46	0.80	*****	*****	3170.26	7.17	0.99	*****							*XS*
U-5	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 DRAWING FOR
 JUMP BETWEEN U-1 & U-2
 WSA 3158.41 USE
 SUPER 3161.00 CRIT

CRIT OK

100
 UP



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		ASSUMED WS = WSC
W	WS NOT FOUND BETWEEN	WS = 3169.46 & WS = 3166.10	USED DEL = 0.25
W	WS NOT FOUND BE	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 17 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		
X	AT	6356 /		1780. /	260. /	18868. /	1.24 /	80. /	214.	
		3165.98 /	0.90 /		3166.89 /	6.85 /	0.91 /		*IS*	
<i>Top of wall</i>										
	AT	6306 /	-50 /	1500. /	209. /	11802. /	1.00 /	65. /	194.	
		3169.46 /	0.80 /	***** /	***** /	3170.26 /	7.17 /	6.99 /	***** *XS*	
<i>Jump between V-1 & V-1.2</i>										
	V-1 AT	6290 /	-16 /	1500. /	87. /	1900. /	1.06 /	21. /	224.	
		3163.69 /	4.95 /	1.61 /	0.0 /	3168.64 /	17.30 /	4.81 /	0.013 *XS*	
<i>Jump below</i>										
	V	AT	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 /	***** /	***** /	3159.81 /	5.10 /	0.98 /	***** *XS*
	CULEX AT	5376 /	-414 /	1500. /	276. /	11192. /	1.00 /	13. /	312.	
			3154.99 /	0.46 /	***** /	***** /	3155.45 /	5.44 /	0.99 /	***** *XS*
	U	AT	5340 /	-36 /	2220. /	351. /	22932. /	1.37 /	16. /	240.
			3154.39 /	0.65 /	***** /	***** /	3155.24 /	6.33 /	1.04 /	***** *XS*

END OF THIS PROFILE

100
Down

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

SECID: U CULEX U-1 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 11 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

Q 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

WS = 3170.01 & WS = 3175.00:

USED DEL = 0.25

W : WS NOT FOUND

ASSUMED WS = WSC

A : 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	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID	
U	AT	5340	0	3090.	1540.	171037.	1.00	-2.	326.
3156.21	0.06				3158.27	2.01	0.17		315*
CULEX	AT	5376	36	2250.	1326.	139294.	1.00	-1.	340.
3158.24	0.04	0.01	0.0		3158.28	1.70	0.15	-0.000	*XS*
V	AT	5740	414	2250.	428.	20572.	1.00	14.	371.
3158.78	0.43	0.73	0.19		3159.21	5.25	0.95	0.005	*XS*
X ^W	AT	5995	205	2250.	378.	20544.	1.00	16.	277.
3161.18	0.55	2.46	0.06		3161.73	5.96	0.87	0.002	*XS*
X ^V	AT	6290	295	2250.	348.	18934.	1.11	14.	227.
3164.93	0.72	3.84	0.09		3165.06	6.46	0.75	0.000	*XS*
X ^Y	AT	6306	16	2250.	286.	18234.	1.00	55.	203.
3170.01	0.96	*****	*****		3170.98	7.87	1.00	*****	*XS*
X ^Z	AT	6356	50	2510.	991.	120020.	1.04	80.	257.
3171.01	0.10	0.13	0.0		3171.12	2.53	0.20	0.010	*XS*

END OF THIS PROFILE

USE EDIT=344.88
 LUSH=344.58
 SUPP 816.84

SEE DOWN COMP

500
 UP

Jump between
 Y-1 & V.

6

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*
W	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.	3163.66	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*

*500
Down*

END OF THIS PROFILE

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

*** 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	1	BOONE CREEK FLOOD PROFILES X-AG 1808029910						
2	2	316922	317002	317031	317100	-99999	-99999	-99999
3	700	xz	1 13	3 3160	6356	99 99		
4	701	930	1520	1780	2510	930	1520	1780
5	705	80	1 31780	80	1 31654	100	1 31649	165
5	706	178	2 31681	190	2 31593	198	2 31591	206
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	xAA	0 21	3 3164	6550	99 99		
5	805	0	1 31800	0	1 31687	50	1 31667	100
5	806	115	2 31697	121	2 31628	123	2 31623	126
5	807	133	2 31623	135	2 31641	137	2 31647	143
5	808	200	3 31712	235	3 31716	243	3 31729	247
5	809	400	3 31770					
6	810	1 2	035 035	1 2	045 045	1 2	035 035	
3	900	xAB	0 20	3 3166	6705	99 99		
5	905	20	1 31850	20	1 31766	27	1 31766	51
5	965	82	2 31659	84	2 31649	90	2 31646	94
5	907	100	2 31675	102	2 31721	105	2 31721	105
5	908	180	3 31736	200	3 31734	219	3 31741	250
6	910	1 2	040 040	1 2	045 045	1 2	035 035	
3	1000	AAAC	0 15	3 3166	6738	99 99		
5	1005	40	1 31850	40	1 31727	85	2 31727	85
5	1006	95	2 31653	97	2 31659	99	2 31659	99
5	1007	150	3 31734	200	3 31734	219	3 31741	250
6	1010	1 2	030 030	1 2	060 060	1 2	030 030	
3	1100	DUMAX	0 18	3 3167	6750	99 99		
5	1105	74	1 31800	74	1 31714	90	2 31705	94
5	1106	101	2 31652	106	2 31655	110	2 31659	116
5	1107	144	3 31734	145	3 31729	200	3 31730	209
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	AAAC	0 18	3 3167	6774	99 99		
5	1205	74	1 31800	74	1 31716	90	2 31707	94
5	1206	101	2 31654	106	2 31658	110	2 31661	116
5	1207	144	3 31736	145	3 31731	200	3 31732	209
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	AAAD	0 21	2 3169	6880	99 99		
5	1305	0	1 31800	0	1 31731	3	1 31731	4
5	1306	6	1 31682	7	1 31676	14	1 31673	20
5	1307	32	1 31735	37	2 31740	38	2 31735	70
5	1308	109	2 31740	134	2 31736	143	2 31750	149
5	1309	300	2 31800					
6	1310	1 2	045 045	1 2	035 035			

FINAL
RUNS

X-AG
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	31705	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	168 3	31738	172 3	31745	177 3 31792 182 3 31812
5	1908	182 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 166 2 31739
5	2007	170 2	31745	175 2	31750	180 2	31762	190 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 3176	7460 99	99			

*** INPUT CARD PRINTOUT ***

.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0

5	2154	-100	1	31895	0	1	31847	0	1	31830	90	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						

INPUT SUMMARY FOR: BOONE CREEK FLOOD PROFILES X-AG

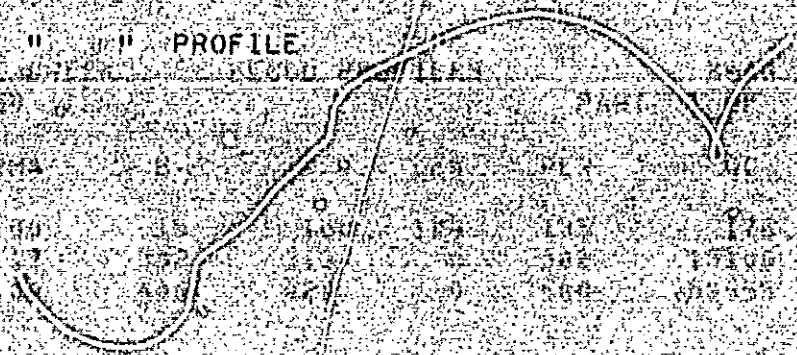
18 CROSS SECTIONS SPECIFIED (OR ASSUMED)

FOUND 17 TYPE 3 CARDS

KEPT 17 CROSS SECTIONS FOR EDITING

17 " " " " VALID FOR PROPERTY COMPUTATIONS

17 " " " " PROFILE



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

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	2389	455845	1.06	210	232	80	290	44430

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

WS	A	K	ALPHA	B	P	LEW	REW	QC
3164.0	24	1049	1.00	15	16	120	135	175
3173.9	1357	166986	1.17	302	313	0	302	15100
3180.0	3644	659049	1.09	400	420	0	400	59855

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

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	3374	569320	1.00	355	393	20	375	58934

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

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 FLOOD PROFILES X-AG
 SECID=DUMAA AT DISTANCE= 6750 PART 1 OF 1

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	191213	1.15	216	226	74	290	19131
3180.0	1651	215651	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= 7011 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 ***

.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0

7 2277 0 0 0 0 2 2 2 2
8 2288 0 0 0 0 0 0 0 0

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK FLOOD PROFILES: 21X-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

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 ; KU/KD < 0.7 OR > 1.4

ALERTED USER

10 KR

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

SEE DOWN COMPS

SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*

AT 6356 / 0 / 930. / 691. / 67951. / 1.01 / 80. / 237.
3169.22 / 0.03 / / / 3169.25 / 1.35 / 0.13 / *IS*

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*

AB AT 6705 / 155 / 930. / 80. / 5724. / 1.00 / 82. / 101.
3171.03 3169.44 / 2.10 / ***** / ***** / 3171.54 / 11.62 / 0.99 / ***** *XS*

AC-AC AA AT 6738 / 33 / 930. / 72. / 3739. / 1.00 / 85. / 99.
3170.10 3170.76 / 2.56 / ***** / ***** / 3173.26 / 12.83 / 0.99 / ***** *XS*

DUMAA 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 AC AT 6774 / 24 / 930. / 214. / 18787. / 1.14 / 74. / 168.
3173.14 / 0.34 / 0.06 / 0.02 / 3173.48 / 4.35 / 0.36 / 0.004 *XS*

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*

AE AT 7005 / 125 / 930. / 184. / 12923. / 1.32 / 2. / 107.
3175.18 3174.97 / 0.53 / 1.06 / 0.0 / 3175.49 / 5.06 / 0.50 / -0.000 *XS*

AE-AF AC-AD AT 7021 / 16 / 930. / 179. / 9312. / 1.55 / -11. / 113.
3175.36 / 0.66 / ***** / ***** / 3176.01 / 5.21 / 0.56 / ***** *XS*

DUMAE 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 AF 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*

AG AT 7360 / 295 / 930. / 86. / 5977. / 1.00 / 43. / 66.
3178.10 / 1.84 / ***** / ***** / 3179.93 / 10.87 / 0.99 / ***** *XS*

AH AT 7430 / 70 / 930. / 124. / 9614. / 1.00 / 151. / 179.
3179.5 3180.10 / 0.88 / 1.05 / 0.0 / 3180.97 / 7.51 / 0.64 / -0.016 *XS*

AH-1 AT 7438 / 8 / 930. / 155. / 12759. / 1.05 / 0. / 180.
3179.8 3180.44 / 0.59 / 0.06 / 0.0 / 3181.03 / 5.99 / 0.47 / 0.003 *XS*

DUMAH AT 7450 / 12 / 930. / 113. / 8617. / 1.00 / 152. / 178.
3180.70 / 1.05 / 0.09 / 0.23 / 3181.36 / 8.22 / 0.70 / -0.001 *XS*

SEE DOWN COMPS
Profile smoothed
Jury, 9/24/77

WATER-SURFACE PROFILE FOR: BOONE CREEK FLOOD PROFILES X-AG
PAGE 2 OF 12, 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
DUMAR	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*
43	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*

CEX OK

END OF THIS PROFILE

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

SECID: 02 Z-AA AC-AD LAE
WSC: 3169.44 3170.70 3175.36 3178.10

50 YR

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK FLOOD PROFILES X-16
 PROFILE NUMBER 2, UPSTREAM COMPUTATION

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

Y1	: 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

50 YR

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

SEE DAMN. COMPS
& RUN OF 9/29/77

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID	
XZ	AT	6356	0	1520.	821.	89181.	1.02	80.	246.
		3170.02	0.05		3170.07	1.85	0.16		*IS*
XAA	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*
XAB	AT	6705	155	1520.	113.	9267.	1.00	82.	102.
		3171.14	2.83	*****	*****	3173.97	13.50	0.99	***** *XS*
AC	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*
AC	AT	6750	12	1520.	476.	42523.	1.28	74.	242.
		3174.37	0.20	0.07	0.0	3174.88	3.19	0.27	-0.001 *XS*
AC	AT	6774	24	1520.	443.	38845.	1.30	74.	239.
		3174.37	0.24	0.03	0.02	3174.91	3.43	0.29	-0.016 *XS*
AD	AT	6880	106	1520.	289.	18602.	1.16	0.	142.
		3174.66	0.50	0.34	0.13	3175.38	5.26	0.52	-0.002 *XS*
AE	AT	7005	125	1520.	255.	18285.	1.37	0.	117.
		3175.58	0.76	0.85	0.13	3176.36	5.96	0.59	-0.000 *XS*
AE-AB	AT	7021	16	1520.	255.	14344.	1.34	-15.	120.
		3175.94	0.75	*****	*****	3176.08	5.97	0.61	***** *XS*
AF	AT	7031	10	1520.	300.	20936.	1.46	0.	143.
		3176.19	0.20	0.08	0.0	3176.77	5.07	0.53	0.011 *XS*
AF	AT	7065	34	1520.	264.	19674.	1.48	0.	143.
		3176.42	0.60	0.19	0.04	3177.00	5.35	0.56	-0.003 *XS*
AG	AT	7360	295	1520.	166.	13327.	1.14	4.	69.
		3180.34	1.25	*****	*****	3181.83	9.06	0.77	***** *XS*
AH	AT	7430	70	1520.	362.	25915.	1.27	0.	182.
		3181.3	0.35	0.47	0.0	3182.30	4.20	0.40	-0.002 *XS*
AH	AT	7438	8	1520.	294.	22662.	1.23	0.	180.
		3181.4	0.51	0.03	0.08	3182.41	5.17	0.42	-0.001 *XS*
AH	AT	7450	12	1520.	234.	15746.	1.38	0.	182.
		3181.7	0.91	0.08	0.20	3182.68	6.51	0.55	-0.007 *XS*

CRIT OK

CRIT 317596

3174.37

3174.37

3174.66

USE WGA 317584

CRIT OK

USE WGA 317642

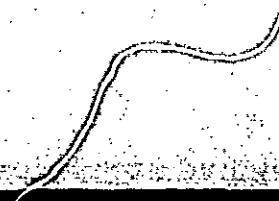
CRIT OK

See possible
Profile Swath

3181.3

3181.4

3181.7



WATER-SURFACE PROFILE FOR: BOONE CREEK FLOOD PROFILES X-AG
PAGE 2 OF 12, 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*
DUMAB	AT									7460	10	1520	129	9469	1.00	91	121	
										3181.77	2.15	*****	*****	3183.92	11.75	1.00	*****	*XS*
J	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



PAGE 1: WOF 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;

AC-AD; WS NOT FOUND BETWEEN ; USED DEL = 0.25

AC-AD; WS NOT FOUND BETWEEN ; WS = 3175.35 & WS = 3184.00;

AC-AD; WS NOT FOUND ; USED WSMIN = WSC

DUMAD; KU/KD < 0.7 OR > 1.4 ; ASSUMED WS = WSC

AE ; FRDN FAILURE ; ALERTED USER

AE ; WS NOT FOUND BETWEEN ; WS = 3179.25 & FR = 1.14;

AE ; WS NOT FOUND BETWEEN ; USED HIGHER WS

AE ; FRDN FAILURE ; WS = 3176.09 & WS = 3192.00;

AE ; FRDN FAILURE ; USED DEL = 0.25

AE ; WS NOT FOUND BETWEEN ; WS = 3179.25 & FR = 1.15;

AE ; WS NOT FOUND BETWEEN ; USED HIGHER WS

AE ; WS NOT FOUND ; WS = 3176.09 & WS = 3192.00;

AE ; WS NOT FOUND ; USED WSMIN = WSC

AE ; WS NOT FOUND ; ASSUMED WS = WSC

WATER-SURFACE PROFILE FOR: BOONE CREEK 100 YR ZAA TO AE
 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*

ORIT START Z AA AT 6738 / 0 / 1520. / 255. / 13938. / 1.12 / 40. / 215.
 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 / 0.08 / 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*

END OF THIS PROFILE

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

FIX UP

SECTID	AC-AD	AE
WSC	3175.94	3180.38

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

1

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 = 3172.56 & 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
AC	: FRDN FAILURE	:	
	: WS = 3179.41 & FR = 1.27	:	USE HIGHER WS
AC	: WS NOT FOUND BETWEEN	:	
	: WS = 3175.49 & WS = 3192.00	:	USED DEL = 0.25
AE	: FRDN FAILURE	:	
	: WS = 3179.40 & FR = 1.27	:	USE HIGHER WS
AE	: WS NOT FOUND BETWEEN	:	
	: WS = 3175.49 & WS = 3192.00	:	USED WSMIN = WSC
AG	: 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

100 YR

WATER-SURFACE PROFILE FOR: BOONE CREEK FLOOD PROFILES X-AG
 PAGE 1 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	
Z	AT	6356	0	1780	869	97776	1.03	80	249
3170.31	0.07			3170.31	2.05	0.17			*IS*
XAA	AT	6550	194	1780	528	46673	1.00	0	155
3170.39	0.18	0.130	0.06	3170.57	3.37	0.34		0.000	*XS*
ZAB	AT	6705	155	1780	425	10748	1.00	82	102
3171.79	3.14	*****	*****	3174.92	14.20	1.00	*****		*XS*
AB-AC	AT	6738	33	1780	137	7284	1.18	40	134
3173.17	3.09	1.34	0.0	3175.27	12.97	0.94		0.008	*XS*
BUNAK	AT	6750	12	1780	760	77885	1.17	74	279
3174.54	0.10	0.07	0.0	3175.33	2.32	0.18		-0.000	*XS*
AC	AT	6774	24	1780	726	72561	1.18	74	274
3174.57	0.11	0.01	0.01	3175.34	2.45	0.19		-0.008	*XS*
AD	AT	6800	106	1780	552	42292	1.07	0	204
3174.64	0.17	0.11	0.03	3175.48	3.22	0.35		-0.000	*XS*
AE	AT	7005	125	1780	363	28390	1.30	0	128
3175.96	0.49	0.33	0.16	3175.97	4.90	0.46		-0.001	*XS*
AF	AT	7021	16	1780	342	21599	1.19	-15	128
3176.11	0.50	0.05	0.01	3177.07	5.20	0.54		0.008	*XS*
AG	AT	7031	10	1780	351	26415	1.40	0	145
3176.26	0.55	0.05	0.02	3177.14	4.93	0.50		0.004	*XS*
AH	AT	7005	34	1780	341	24612	1.43	0	145
3177.10	0.61	0.15	0.04	3177.34	5.21	0.54		-0.003	*XS*
AI	AT	7000	295	1780	205	16023	1.15	0	70
3180.90	1.55	*****	*****	3182.27	6.70	0.73	*****		*XS*
AJ	AT	7450	70	1780	437	33103	1.20	0	182
3182.07	0.31	0.00	0.0	3182.07	4.05	0.31		-0.002	*XS*
AK	AT	7458	8	1780	340	26574	1.21	0	180
3182.07	0.52	0.03	0.10	3182.80	5.23	0.42		-0.001	*XS*
AL	AT	7459	12	1780	315	22031	1.31	0	152
3182.07	0.55	0.00	0.07	3182.93	5.64	0.55		0.002	*XS*

VOL CRIT 3174.09
 SEE DRAWINGS
 And run at
 9/27/77

WSA - 3175.96

CRIT - 3176.11

WSA = 3176.26

WSA = 3177.10

CRIT PK

Profile computed
 using program
 9/27/77

USE

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

SECTION	AT DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID*
DUMAS ¹ AT	7460 /	10 /	1780. /	145. /	11214. /	1.00 /	91. /	122.
CAIT DL ¹	3182.30 /	2.33 /	***** /	***** /	3184.63 /	12.25 /	1.00 /	***** XS*
AG ¹ 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

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

SECID: JZ AE DUMAG
WSC 3171.79 3180.92 3182.30

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; KU/KD < 0.7 OR > 1.4 ; ALERTED USER

DUMAD; KU/KD < 0.7 OR > 1.4 ; ALERTED USER

AE ; FRON FAILURE ; ALERTED USER

WS = 3179.47 & WS = 3192.00 ; USED HIGHER WS

AE ; WS NOT FOUND BETWEEN ; USED DEL = 0.25

AE ; FRON FAILURE ; USED HIGHER WS

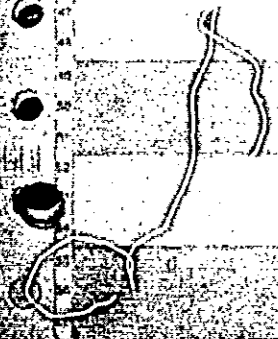
WS = 3179.47 & WS = 3192.00 ; USED HIGHER WS

AE ; WS NOT FOUND BETWEEN ; USED WSMIN = WSC

WS = 3176.42 & WS = 3192.00 ; ASSUMED WS = WSC

AE ; WS NOT FOUND ; ASSUMED WS = WSC

0



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

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

FIX UP

SECID AE
WSC 3180.92

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 ✓
AE	: KU/KD < 0.7 OR > 1.4		ALERTED USER
DU4AG	: WS NOT FOUND BETWEEN		
		: WS = 3183.14 & WS = 3189.50;	USED DEL = 0.25
DU4AG	: WS NOT FOUND BETWEEN		
		: WS = 3183.14 & WS = 3189.50;	USED WSMIN = WSC
DU4AG	: WS NOT FOUND		ASSUMED WS = WSC ✓

WATER-SURFACE PROFILE FOR: ROONE CREEK FLOOD PROFILES A-A6
 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*
3171.09	6356	0	2510.	989.	129623.	1.04	80.	257.
3171.09	0.10			3171.10	2.54	0.20		*IS*
3171.09	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*
3174.85	6705	155	2510.	344.	26586.	1.34	38.	260.
3174.85	1.11	*****	*****	3175.97	7.30	0.57	*****	*XS*
3175.88	6738	33	2510.	674.	56280.	1.05	40.	288.
3175.88	0.23	0.14	0.0	3175.11	3.72	0.44	-0.000	*XS*
3175.88	6750	12	2510.	596.	68725.	1.19	74.	271.
3175.88	0.24	0.02	0.01	3175.12	3.51	0.28	-0.012	*XS*
3175.88	6774	24	2510.	657.	63611.	1.20	74.	266.
3175.88	0.27	0.03	0.02	3175.16	3.82	0.39	-0.019	*XS*
3176.07	6860	106	2510.	508.	37665.	1.09	0.	198.
3176.07	0.41	0.28	0.07	3176.50	4.94	0.43	-0.001	*XS*
3176.55	7005	125	2510.	372.	29295.	1.29	0.	129.
3176.55	0.91	0.71	0.25	3177.47	6.14	0.53	-0.001	*XS*
3177.20	7321	15	2510.	376.	24712.	1.15	-15.	131.
3177.20	0.19	0.14	0.0	3177.20	6.67	0.68	-0.011	*XS*
3177.05	7031	10	2510.	399.	30159.	1.35	0.	140.
3177.05	0.24	0.05	0.02	3177.71	6.24	0.63	0.000	*XS*
3177.05	7055	34	2510.	393.	29783.	1.35	0.	146.
3177.05	0.21	0.24	0.02	3177.97	6.38	0.63	-0.001	*XS*
3183.29	7350	295	2510.	271.	22332.	1.09	0.	11.
3183.29	1.02	*****	*****	3183.29	9.77	0.73	*****	*XS*
3183.04	7430	15	2510.	520.	56953.	1.34	0.	102.
3183.04	0.26	0.30	0.0	3183.04	4.05	0.40	-0.001	*XS*
3183.17	7435	5	2510.	477.	40345.	1.12	0.	150.
3183.17	0.45	0.02	0.10	3183.17	5.25	0.39	-0.001	*XS*
3183.81	7450	12	2510.	515.	41765.	1.14	0.	102.
3183.81	0.42	0.04	0.0	3183.81	4.87	0.42	-0.003	*XS*

USEW6A 3172.1

CBIT 02

3172.9
 USEW6A
 3177.15
 3178.02

CBIT 02

Profile omitted
 hydraulic jump
 sec. trans. comp.
 3183.5
 3183.8
 3184.0

compute

01



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*
DU-40	AT	7460	10	2510.	325.	25087.	1.22	0.	125.									
OK		3184.37		1.13	*****	*****				3185.50	7.72	0.66	*****	*****				*XS*
AS	AT	7492	32	2510.	284.	21447.	1.26	0.	125.									
OK		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 FLOOD PROFILES X-AG
PROFILE NUMBER 5, DOWNSTREAM COMPUTATIONS

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

AG : WS TOO LOW : ASSUMED WS = WSC

DUMAG : WS NOT FOUND BETWEEN : WS = 3180.07 & WS = 3176.40 : 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

DUMAG : KU/KD < 0.7 OR > 1.4 : ALERTED USER

DUMAG : 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 = 3176.10 & WS = 3172.80 : USED DEL = 0.25

AE : WS NOT FOUND BETWEEN : WS = 3176.10 & WS = 3172.80 : USED KE = 0.5

AE : WS NOT FOUND : ASSUMED WS = WSC

AD : WS NOT FOUND BETWEEN : WS = 3174.17 & WS = 3159.40 : USED DEL = 0.25

AD : WS NOT FOUND BETWEEN : WS = 3174.17 & WS = 3159.40 : USED KE = 0.5

AD : WS NOT FOUND : ASSUMED WS = WSC

AD : WS NOT FOUND BETWEEN : WS = 3174.93 & WS = 3159.10 : USED DEL = 0.25

AD : WS NOT FOUND BETWEEN : WS = 3174.93 & WS = 3159.10 : USED KE = 0.5

AD : 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

AC : WS NOT FOUND BETWEEN : WS = 3175.36 & WS = 3169.50 : USED DEL = 0.25

AC : WS NOT FOUND BETWEEN : WS = 3175.36 & WS = 3169.50 : USED KE = 0.5

AC : 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 : WS = 3172.32 & WS = 3167.30 : USED DEL = 0.25
AB : WS NOT FOUND : USED KE = 0.5
AA : WS NOT FOUND BETWEEN : WS = 3170.25 & WS = 3165.60 : ASSUMED WS = WSC
AA : WS NOT FOUND BETWEEN : WS = 3170.25 & WS = 3165.60 : USED DEL = 0.25
AA : WS NOT FOUND : USED KE = 0.5
DUMAA : WS NOT FOUND BETWEEN : WS = 3170.05 & WS = 3165.40 : ASSUMED WS = WSC
DUMAA : WS NOT FOUND BETWEEN : WS = 3170.05 & WS = 3165.40 : USED DEL = 0.25
DUMAA : WS NOT FOUND : USED KE = 0.5
Z-AA : WS NOT FOUND BETWEEN : WS = 3170.70 & WS = 3165.50 : ASSUMED WS = WSC
Z-AA : WS NOT FOUND BETWEEN : WS = 3170.70 & WS = 3165.50 : USED DEL = 0.25
Z-AA : WS NOT FOUND : USED KE = 0.5
Z : SUPERCRITICAL WS : ASSUMED WS = WSC
Y : $K0/K0 < 0.70 > 1.4$: COMPUTED WSA
Y : SUPERCRITICAL WS : ALERTED USER
X : WS NOT FOUND BETWEEN : WS = 3163.47 & WS = 3159.30 : COMPUTED WSA
X : WS NOT FOUND BETWEEN : WS = 3163.47 & WS = 3159.30 : USED DEL = 0.25
X : WS NOT FOUND : USED KE = 0.5
X : WS NOT FOUND : ASSUMED WS = WSC

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

X-AG *1042*

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW	WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID
AG	AT	7492	0	930.	84.	5623.	1.00	94.	116.	3180.57	1.89			3182.46	11.02	0.99		*IS*
DUMAG	AT	7460	-32	930.	84.	5623.	1.00	94.	116.	3180.07	1.89	*****	*****	3181.96	11.02	0.99	*****	*XS*
DUMAF	AT	7450	-10	930.	62.	3650.	1.00	155.	175.	3177.99	3.55	0.40	0.0	3181.55	15.11	1.51	0.014	*XS*
AF-1	AT	7438	-12	930.	60.	3319.	1.00	155.	180.	3177.02	3.71	0.81	0.0	3180.73	15.45	1.76	0.003	*XS*
AF	AT	7430	-8	930.	83.	5935.	1.00	155.	176.	3178.46	1.94	0.35	0.0	3180.39	11.16	1.00	-0.013	*XS*
AE	AT	7360	-70	930.	86.	5977.	1.00	43.	66.	3178.10	1.84	*****	*****	3179.93	10.87	0.99	*****	*XS*
AD	AT	7065	-295	930.	97.	6284.	1.00	100.	134.	3174.17	1.42	*****	*****	3175.59	9.56	0.99	*****	*XS*
DUMAD	AT	7031	-34	930.	98.	6339.	1.01	95.	134.	3174.03	1.40	*****	*****	3175.42	9.46	1.05	*****	*XS*
AC-AD	AT	7021	-10	930.	179.	9312.	1.55	-11.	113.	3175.36	5.66	*****	*****	3176.01	5.21	0.95	*****	*XS*
AC	AT	7005	-16	930.	65.	3624.	1.00	69.	96.	3172.34	3.22	0.41	0.0	3175.00	14.39	1.04	0.004	*XS*
AB	AT	6830	-125	930.	56.	5772.	1.00	4.	28.	3172.32	1.00	*****	*****	3174.13	10.77	0.99	*****	*XS*
AA	AT	6774	-105	930.	87.	5180.	1.00	91.	115.	3170.25	1.77	*****	*****	3172.02	10.67	1.00	*****	*XS*
DUMAA	AT	6750	-24	930.	67.	6183.	1.00	91.	115.	3170.05	1.77	*****	*****	3171.82	10.67	1.00	*****	*XS*
Z-AA	AT	6738	-12	930.	72.	3739.	1.00	85.	99.	3170.70	2.50	*****	*****	3173.26	12.83	0.99	*****	*XS*
Z	AT	6715	-33	930.	70.	4743.	1.00	82.	101.	3168.92	2.73	1.51	0.0	3171.65	13.25	1.20	0.004	*XS*

JUMP POSSIBLE

WATER-SURFACE PROFILE FOR: BOONE CREEK FLOOD PROFILES X-46
PAGE 2 OF 2, PROFILE NUMBER 5, DOWNSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW	WS 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	3180.68

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-I	: SUPERCRITICAL WS			COMPUTED WSA
AF	: KU/KD < 0.7 OR > 1.4			ALERTED USER
CF	: SUPERCRITICAL WS			COMPUTED WSA
AE	: WS NOT FOUND BETWEEN			
		: WS = 3180.38 & WS = 3172.80;		USED DEL = 0.25
AE	: WS NOT FOUND BETWEEN			
		: WS = 3180.38 & WS = 3172.80;		USED KE = 0.5
DE	: 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
AA	: SUPERCRITICAL WS			COMPUTED WSA

COMPUTED WSA
DUMAA: WS NOT FOUND BETWEEN ; WS = 3171.92 & WS = 3165.40; USED DEL = 0.25
DUMAA: WS NOT FOUND BETWEEN ; WS = 3171.92 & WS = 3165.40; USED KE = 0.5
DUMAA: WS NOT FOUND ; ASSUMED WS = WSC
Z-AA : WS NOT FOUND BETWEEN ; WS = 3173.96 & WS = 3165.50; USED DEL = 0.25
Z-AA : WS NOT FOUND BETWEEN ; WS = 3173.96 & WS = 3165.50; USED KE = 0.5
Z-AA : WS NOT FOUND ; ASSUMED WS = WSC
Z : KU/KD < 0.7 OR > 1.4 ; ALERTED USER
Y : SUPERCRITICAL WS ; COMPUTED WSA
X : WS NOT FOUND BETWEEN ; WS = 3165.75 & WS = 3159.30; USED DEL = 0.25
X : WS NOT FOUND BETWEEN ; WS = 3165.75 & WS = 3159.30; USED KE = 0.5
X : WS NOT FOUND ; ASSUMED WS = WSC

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WATER-SURFACE PROFILE FOR: BOONE CREEK FLOOD PROFILES X-AG
 PAGE 1 OF 2, PROFILE NUMBER 8, DOWNSTREAM COMPUTATIONS

SECTION	AT	WS ELEV	HV	HF	HE	EA	V	FN	ACC	REW	ID
AS	AT	7492 / 3182.27	0 / 2.15	1520. /	129. /	9469. /	1.00 /	91. /	121. /		*IS*
DUMAS	AT	7460 / 3181.77	-32 / 2.15	1520. /	129. /	9469. /	1.00 /	91. /	121. /		*XS*
DUMAF	AT	7450 / 3179.57	-10 / 3.99	1520. /	95. /	6986. /	1.00 /	153. /	177. /		*XS*
AF-1	AT	7438 / 3178.05	-12 / 4.81	1520. /	86. /	5775. /	1.00 /	154. /	180. /		*XS*
AF	AT	7430 / 3179.80	-8 / 2.08	1520. /	116. /	8858. /	1.00 /	151. /	179. /		*XS*
AE	AT	7360 / 3180.38	-70 / 1.45	1520. /	168. /	13327. /	1.14 /	4. /	69. /		*XS*
AD	AT	7065 / 3175.16	-295 / 1.86	1520. /	151. /	10681. /	1.18 /	62. /	138. /		*XS*
DUMAD	AT	7031 / 3175.59	-34 / 1.16	1520. /	205. /	14210. /	1.36 /	30. /	140. /		*XS*
AC-AU	AT	7021 / 3175.94	-10 / 5.75	1520. /	255. /	14344. /	1.34 /	-15. /	120. /		*XS*
AC	AT	7005 / 3174.71	-16 / 1.75	1520. /	159. /	11309. /	1.22 /	15. /	103. /		*XS*
AB	AT	6880 / 3174.55	-125 / 0.75	1520. /	242. /	14540. /	1.23 /	0. /	140. /		*XS*
AA	AT	6774 / 3171.81	-106 / 1.46	1520. /	140. /	10882. /	1.07 /	74. /	120. /		*XS*
DUMAA	AT	6750 / 3171.92	-24 / 1.01	1520. /	155. /	12480. /	1.08 /	74. /	124. /		*XS*
Z-AA	AT	6738 / 3173.98	-12 / 0.52	1520. /	254. /	13691. /	1.12 /	40. /	215. /		*XS*
Z	AT	6705 / 3171.14	-33 / 2.53	1520. /	113. /	9247. /	1.00 /	82. /	102. /		*XS*

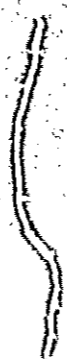
Jump possible

CLIT

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
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID*	XS*
Y	AT	6550	-195	1520.	148.	8825.	1.28	36.	141.
		3167.49	2.11	4.38	0.0	3169.59	10.29	1.66	-0.001
X	AT	6356	-194	1520.	231.	96508.	1.28	80.	214.
		3165.75	0.85	*****	*****	3165.61	5.57	0.94	*****

END OF THIS PROFILE



COMPUTED WSC VALUES FOR: BOONE CREEK FLOOD PROFILES X-AG
PROFILE NUMBER 55, DOWNSTREAM COMPUTATIONS

SECID	X	Y	Z	Z-AA	DUMAA	AA	AB	AC
WSC	3165.75	3168.20	3171.14	3173.46	3171.92	3172.12	3174.55	3175.29
SECID	AC-AD	DUMAD	AD	AE	AF	AF-1	DUMAF	DUMAG
WSC	3175.94	3177.50	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 56, DOWNSTREAM COMPUTATIONS

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

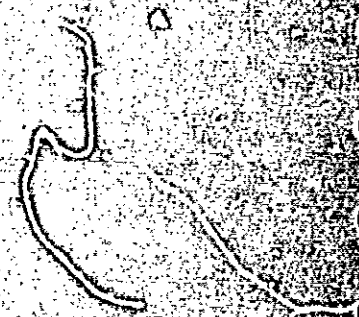
PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK FLOOD PROFILES X-AG
PROFILE NUMBER 7, DOWNSTREAM COMPUTATIONS

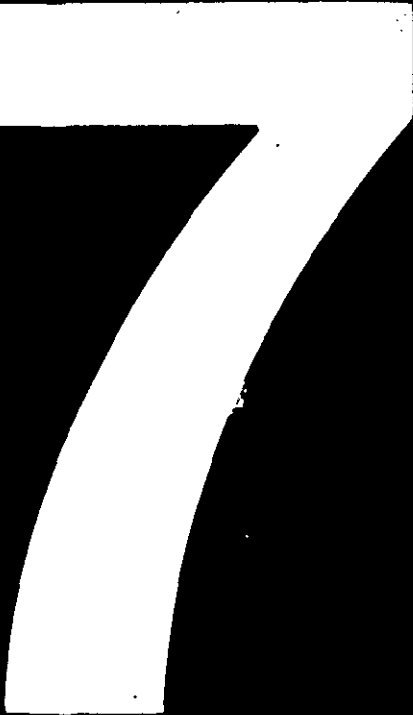
SECTION: ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

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-11	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;	USED KE = 0.5



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





100 yr

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 /	0.0 /	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 /	0.0 /	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 /	0.0 /	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. /	139.0
3175.38	/	2.16 /	4.72 /	0.0 /	3177.54 /	10.57 /	1.50 /	0.015 /	*XS*
DU-AD	AT	7031 /	-34 /	1780. /	253. /	17231. /	1.49 /	0. /	142.
3175.86	/	1.14 /	0.52 /	0.0 /	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 /	0.0 /	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 /	-106 /	1780. /	179. /	15112. /	1.09 /	74. /	130.
3172.57	/	1.68 /	***** /	***** /	3174.25 /	9.94 /	1.03 /	***** /	*XS*
DU-AAA	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*

Jump possible

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

SECTID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID	
Y	AT	6550	-155	1780.	158.	9480.	1.27	28.	142.
3167.99		2.51	4.82	55.0	3170.10	11.28	1.78	0.005	*XS*
X	AT	3560	-194	1780.	260.	18868.	1.24	80.	214.
3165.98		0.90	*****	*****	3166.89	6.85	0.91	*****	*XS*

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	AR	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: COONE CREEK FLOOD PROFILES X-AG
 PROFILE NUMBER 8; DOWNSTREAM COMPUTATIONS

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

AG	; WS TOO LOW			
DUMAG	; SUPERCRITICAL WS			ASSUMED WS = WSC
DUMAF	; KU/KD < 0.7 OR > 1.4			COMPUTED WSA
DUMAF	; SUPERCRITICAL WS			ALERTED USER
DUMAF	; LEFT BANK EXTENDED			COMPUTED WSA
AF-1	; SUPERCRITICAL WS			ALERTED USER
AF-1	; LEFT BANK EXTENDED			COMPUTED WSA
AF	; SUPERCRITICAL WS			ALERTED USER
AE	; WS NOT FOUND BETWEEN			COMPUTED WSA
		; WS = 3181.67 & WS = 3172.80;		USED DEL = 0.25
AE	; WS NOT FOUND BETWEEN			USED KE = 0.5
		; WS = 3181.67 & WS = 3172.80;		
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			COMPUTED WSA
		; WS = 3175.30 & WS = 3167.30;		USED DEL = 0.25
AB	; WS NOT FOUND BETWEEN			USED KE = 0.5
		; WS = 3175.30 & WS = 3167.30;		
AB	; WS NOT FOUND			ASSUMED WS = WSC
AA	; SUPERCRITICAL WS			COMPUTED WSA
DUMAA	; SUPERCRITICAL WS			COMPUTED WSA
Z-AA	; WS NOT FOUND BETWEEN			COMPUTED WSA
		; WS = 3174.54 & WS = 3165.50;		USED DEL = 0.25
Z-AA	; WS NOT FOUND BETWEEN			USED KE = 0.5
		; WS = 3174.54 & WS = 3165.50;		
Z-AA	; WS NOT FOUND			ASSUMED WS = WSC
Z	; WS NOT FOUND BETWEEN			COMPUTED WSA
		; WS = 3174.80 & WS = 3164.80;		USED DEL = 0.25
Z	; WS NOT FOUND BETWEEN			

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

USED KE = 0.5

ASSUMED WS = WSC

ALERTED USER

COMPUTED WSA

WS = 3166.47 & WS = 3159.30

USED OEL = 0.25

WS = 3166.47 & WS = 3159.30

USED KE = 0.5

ASSUMED WS = WSC

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WATER-SURFACE PROFILE FOR: BUONE CREEK FLOOD PROFILES X-AG
 PAGE 1 OF 2, PROFILE NUMBER 8, DOWNSTREAM COMPUTATIONS

SECTID	AT DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID
AG	7492 / 3184.87	0 / 1.13	2510. /	325. / 3186.00	25087. / 7.72	1.22 / 0.93	0. /	125. / *IS*
DUMAG	7460 / 3183.98	-32 / 1.62	2510. /	276. / 3185.60	20772. / 9.09	1.26 / 1.21	0. / -0.013	125. / *XS*
DUMAF	7450 / 3181.42	-10 / 3.95	2510. /	180. / 3185.36	12662. / 13.91	1.31 / 2.54	0. / -0.006	181. / *XS*
AF-1	7438 / 3180.30	-12 / 4.57	2510. /	147. / 3184.87	12225. / 17.05	1.01 / 1.67	0. / 0.006	180. / *XS*
AF	7430 / 3180.88	-8 / 3.67	2510. /	189. / 3184.55	13108. / 13.27	1.34 / 2.40	0. / 0.009	181. / *XS*
AE	7360 / 3181.67	-70 / 1.62	2510. /	257. / 3183.29	223820 / 9.77	1.09 / 0.94	0. / *****	71. / *XS*
AD	7065 / 3176.08	-295 / 2.37	2510. /	248. / 3178.45	17150. / 10.13	1.48 / 1.65	0. / -0.010	142. / *XS*
DUMAD	7031 / 3176.13	-34 / 1.69	2510. /	291. / 3177.82	20219. / 8.61	1.47 / 1.29	0. / 0.012	143. / *XS*
AC-AD	7021 / 3176.26	-10 / 1.38	2510. /	298. / 3177.64	17767. / 8.42	1.25 / 1.14	-15. / 0.013	124. / *XS*
AC	7005 / 3176.23	-16 / 1.18	2510. /	331. / 3177.41	25182. / 7.58	1.33 / 0.95	0. / -0.005	125. / *XS*
AP	6830 / 3175.39	-120 / 0.39	2510. /	360. / 3175.19	23535. / 6.97	1.18 / 0.94	0. / *****	178. / *XS*
AA	6774 / 3174.05	-100 / 1.14	2510. /	342. / 3175.20	28667. / 7.35	1.36 / 1.03	74. / 0.011	234. / *XS*
DUMAA	6750 / 3173.83	-24 / 1.17	2510. /	337. / 3175.00	28255. / 7.45	1.36 / 1.05	74. / -0.010	234. / *XS*
Z-AA	6738 / 3174.54	-12 / 0.78	2510. /	366. / 3175.32	22471. / 6.86	1.07 / 0.95	40. / *****	251. / *XS*
Z	6705 / 3174.65	-33 / 1.11	2510. /	344. / 3175.97	26586. / 7.30	1.34 / 0.96	38. / *****	260. / *XS*

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WATER-SURFACE PROFILE FOR: BOONE CREEK FLOOD PROFILES X-AG
PAGE 2 OF 2, 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	
Y	AT	6550	-155	2510.	164.	9876.	1.26	26.	142.
		3167.65	4.50	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*

USE 9172.1
WBA

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	3178.03	3174.05	3174.24	3178.96	3176.91	3177.15	3178.02
SECID	AF	AF-1	DUMAF	DUMAG				
WSA	3184.40	3184.67	3185.22	3184.82				

FINAL RUNS ~~AL~~ - ~~AN~~

USGS STEP-BACKWATER PROGRAM - VERSION 77.150 *** 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 AL	OVERLAND	FINAL	9	8	02 99 10
2	2	318142	-99999	318302	-99999	318380	-99999	318454 -99999
3	2200	AL AL	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 31895 9 1 31834 9 1 31862
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 120 3 31865
5	2209	133	3	31888				
6	2210	1	2	035 035	1	2 045 045	1	2 045 045
3	2248	AL TOP	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	AL	0 9	1 3190	7805	99 99		
5	2305	0	1	32000	0	1 31898	23	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	AL 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 31949	113	1 31950 120 1 31970 120 1 32002
5	2507	136	1	32027	151	1 32027	240	1 32077
6	2510	1	2	035 035				
3	2600	AL 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 31931 294 1 31951
5	2607	300	1	31963	300	1 31963	317	1 31985 319 1 31967 322 1 31958
5	2608	323	1	31960	350	1 31971	351	1 31976 373 1 31997 376 1 31959
5	2609	401	1	31999	500	1 32040		
6	2610	1	2	035 035				
3	2700	AL 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 355 1 31951
5	2707	338	1	31960	348	1 31977	425	1 32050
6	2710	1	2	025 025				
3	2800	AL AM	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	235	1	32020	240	1 32037	325	1 32100
6	2810	1	2	025 025				
3	2900	AL AN	0 11	1 3205	8739	99 99		

***** ERROR(S) ****

Handwritten notes and signatures at the bottom right of the page.

*** 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 32050	185	1 32057 190 1 32048
5 2907	220	1 32100						
6 2910	1	2 030 030						
9 3000	ACAN	1 18	2 3198	1 18763	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 22041	148	2 32048	155	2 32049 165 2 32052
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	SEVERITY	FIRST VARIABLE NO.	ERROR MESSAGE	SECOND VARIABLE NO.	VALUE ASSUMED
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AJ	WARNING	NSA	WRONG		1
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INPUT SUMMARY FOR: BOONE CREEK SECT AG TO A1 OVERLAY 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	8929
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	1151	127108	1.00	233	243	-99	133	14128

CROSS-SECTION PROPERTIES FOR: BOONE CREEK SECT AG TO AI OVERLAND FINAL
 SECID=AS 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	203	220	0	208	19489
3200.0	1371	190732	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	67	4307	1.00	54	61	0	59	554
3202.0	1120	153654	1.00	164	165	0	164	16706
3207.0	2095	353700	1.00	240	265	0	240	35111

CROSS-SECTION PROPERTIES FOR: BOONE CREEK SECT AG TO AI OVERLAND FINAL
 SECID=AJ AT DISTANCE= 8114 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3190.0	135	4903	1.00	169	174	57	226	681
3205.0	3836	620104	1.00	200	212	0	200	60307

CROSS-SECTION PROPERTIES FOR: BOONE CREEK SECT AG TO AI OVERLAND FINAL
 SECID=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
3207.0	657	85252	1.01	218	229	-10	207	9567
3210.0	1349	175014	1.09	250	261	-29	220	16993

*** INPUT CARD PRINTOUT ***

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

0 2 0 2 0 2 0 2

0 0 0 0 0 0 0 0

PAGE 1 OF PROFILE NOTES FOR: BODNE 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 ;

AGTOP; WS NOT FOUND ; USED DEL = 0.25

AH ; WS TOO LOW ; ASSUMED WS = WSC

AH ; WS NOT FOUND BETWEEN ; USED WSMIN = WSC

AH ; WS NOT FOUND ; WS = 3190.69 & WS = 3200.00 ; USED DEL = 0.25

AI ; WS TOO LOW ; ASSUMED WS = WSC

AI ; KU/KD < 0.7 OR > 1.4 ; USED WSMIN = WSC

AJ ; WS TOO LOW ; ALERTED USER

AJ ; WS NOT FOUND BETWEEN ; USED WSMIN = WSC

AJ ; WS NOT FOUND ; WS = 3195.82 & WS = 3205.60 ; USED DEL = 0.25

AJ-AK; KU/KD < 0.7 OR > 1.4 ; ASSUMED WS = WSC

AK ; WS TOO LOW ; ALERTED USER

AK ; WS NOT FOUND BETWEEN ; USED WSMIN = WSC

AK ; WS NOT FOUND ; WS = 3200.75 & WS = 3210.00 ; USED DEL = 0.25

AK-AL; WS TOO LOW ; ASSUMED WS = WSC

AK-AL; WS NOT FOUND BETWEEN ; USED WSMIN = WSC

AK-AL; WS NOT FOUND ; WS = 3204.20 & WS = 3210.00 ; USED DEL = 0.25

AL ; KU/KD < 0.7 OR > 1.4 ; ASSUMED WS = WSC

AL ; WS NOT FOUND ; ALERTED USER

SEE DOWNSTREAM 10 YR

WATER-SURFACE PROFILE FOR: BOONE CREEK, SECT AG TO AI OVERLAND 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*

Profile
 smoothed with OK

USE WSA
 3184.35

AS AT 7492 / 3 / 594. / 109. / 5186. / 1.00 / 0. / 124.
 3181.42 / 1.22 / ***** / ***** / 3182.64 / 8.87 / 0.90 / ***** *IS*

CRIT OK

AT AT 7805 / 310 / 594. / 102. / 4556. / 1.00 / 0. / 93.
 3190.69 / 0.53 / ***** / ***** / 3191.22 / 5.85 / 0.98 / ***** *XS*

USE WSA
 3194.33

AK AT 8079 / 274 / 594. / 120. / 7677. / 1.00 / 0. / 62.
 3194.33 / 0.38 / 2.75 / 0.0 / 3193.99 / 4.95 / 0.63 / 0.008 *XS*

CRIT OK

AL AT 8119 / 40 / 455. / 104. / 3226. / 1.00 / 60. / 226.
 3195.82 / 0.30 / ***** / ***** / 3195.12 / 4.38 / 0.98 / ***** *XS*

OK

AM AT 8125 / 5 / 455. / 407. / 35694. / 1.00 / 17. / 339.
 3196.11 / 0.01 / 0.01 / 0.0 / 3196.13 / 0.47 / 0.14 / -0.000 *XS*

USE WSA
 3200.85

AN AT 8495 / 370 / 455. / 92. / 4594. / 1.00 / 26. / 147.
 3200.85 / 0.38 / ***** / ***** / 3201.13 / 4.94 / 0.99 / ***** *XS*

CRIT OK

AO AT 8739 / 244 / 455. / 95. / 3841. / 1.00 / 3. / 134.
 3204.20 / 0.35 / ***** / ***** / 3204.55 / 4.75 / 0.98 / ***** *XS*

USE
 3204.7

OK

AP AT 8763 / 24 / 820. / 234. / 17085. / 1.21 / 3. / 124.
 3204.45 / 0.23 / 0.15 / 0.0 / 3204.58 / 3.50 / 0.28 / -0.020 *XS*

SEE NEXT REACH

END OF THIS PROFILE

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: BOYNE CREEK, SECT AG TO AI, OVERLAND, FINAL
 PROFILE NUMBER 2, DOWNSTREAM COMPUTATIONS

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

AL : WS TOO LOW
 ASSUMED WS = WSC

AK-AL: WS NOT FOUND BETWEEN
 WS = 3204.20 & WS = 3203.30;
 USED DEL = 0.25

AK-AL: WS NOT FOUND BETWEEN
 WS = 3204.20 & 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 = 3195.82 & WS = 3194.90;
 USED DEL = 0.25

AJ : WS NOT FOUND BETWEEN
 WS = 3195.82 & WS = 3194.90;
 USED KE = 0.5

AJ : WS NOT FOUND
 ASSUMED WS = WSC

AI : K0/KD < 0.7 OR > 1.4
 ALERTED USER

AI : SUPERCRITICAL WS
 COMPUTED WSA

AH : WS NOT FOUND BETWEEN
 WS = 3190.69 & WS = 3189.70;
 USED DEL = 0.25

AH : WS NOT FOUND BETWEEN
 WS = 3190.69 & WS = 3189.70;
 USED KE = 0.5

AH : WS NOT FOUND
 ASSUMED WS = WSC

AG-HP: SUPERCRITICAL WS
 COMPUTED WSA

AG : K0/KD < 0.7 OR > 1.4
 ALERTED USER

AG : SUPERCRITICAL WS
 COMPUTED WSA

10 YR DOWN

WATER-SURFACE PROFILE FOR: BUONE 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		FN	ACC	*ID*	
AL	AT	8763	0	820	79	4551	1.00	9	32
3200.67	1.69			3202.16	10.42	1.00			*IS*
AK-AL	AT	8739	-24	455	76	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	0.40	0.0	3201.15	5.61	1.17	0.007		*XS*
AJ-AK	AT	8125	-370	455	80	3263	1.00	28	158
3194.57	0.51	0.00	0.0	3195.98	5.70	1.33	0.006		*XS*
AJ	AT	8119	-6	455	104	3220	1.00	60	226
3195.82	0.30	*****	*****	3195.12	4.38	0.98	*****		*XS*
AI	AT	8079	-40	594	51	2150	1.00	0	49
3192.43	2.13	1.56	0.0	3194.34	11.70	2.02	0.011		*XS*
AH	AT	7895	-274	594	102	4550	1.00	0	93
3190.09	0.53	*****	*****	3191.22	5.85	0.95	*****		*XS*
AH-AI	AT	7475	-418	594	75	3834	1.15	0	123
3183.57	1.04	0.61	0.0	3184.02	7.54	1.50	-0.001		*XS*
AJ	AT	7492	-3	930	50	2519	1.00	94	116
3179.00	5.42	0.19	0.0	3184.42	18.67	2.14	0.005		*XS*

END OF THIS PROFILE

COMPUTED WSA 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	3200.55

PAGE 11 OF PROFILE NOTES FOR: JOONE CREEK, SNOT AG TOEAT, OVERLAND, FINAL
PROFILE NUMBER 57, 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 = 3196.26 & 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 = 3204.89 & 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

50 UP

WATER SURFACE PROFILE FOR BOONE CREEK, SECT. 46 TO 47, OVERLAND, FINAL
 PAGE 11 OF 15, 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*

*Profile started
in this area OK*

48 AT AT 7492 / 0 / 1520. / 152. / 11999. / 1.00 / 388. / 122.
 3183.02 / 1.55 / / / 3184.57 / 9.98 / 0.80 / *IS*

USE WSA 3185.50

AT TOP AT 7495 / 3 / 1195. / 193. / 10458. / 1.14 / 0. / 125.
 3187.53 / 0.68 / ***** / ***** / 3185.31 / 6.19 / 0.75 / ***** *XS*

CAIT OK

49 AT AT 7805 / 310 / 1195. / 161. / 9675. / 1.00 / 0. / 194.
 3191.32 / 0.86 / ***** / ***** / 3192.18 / 7.43 / 1.00 / ***** *XS*

USE WSA 3195.06

49 AK AT 8079 / 274 / 1195. / 170. / 13500. / 1.00 / 0. / 62.
 3194.42 / 0.77 / 3.00 / 0.0 / 3195.19 / 7.03 / 0.75 / 0.007 *XS*

CAIT OK

50 AL AT 8119 / 40 / 989. / 179. / 7478. / 1.00 / 53. / 329.
 3196.25 / 0.48 / ***** / ***** / 3196.73 / 1.54 / 0.95 / ***** *XS*

OK

50 AM AT 8125 / 6 / 989. / 660. / 62556. / 1.00 / 13. / 342.
 3196.71 / 0.03 / 0.01 / 0.0 / 3196.74 / 1.50 / 0.19 / -0.000 *XS*

USE WSA 3201.54

50 AN AT 8495 / 370 / 989. / 174. / 10533. / 1.00 / 23. / 236.
 3201.52 / 0.50 / ***** / ***** / 3201.83 / 5.68 / 0.99 / ***** *XS*

CAIT OK

50 AX AT 8739 / 244 / 989. / 167. / 8737. / 1.00 / 3. / 156.
 3204.69 / 0.55 / ***** / ***** / 3205.23 / 5.92 / 1.00 / ***** *XS*

*USE
3205.44*

50 AY AT 8763 / 24 / 1350. / 320. / 23425. / 1.20 / 2. / 156.
 3205.05 / 0.33 / 0.16 / 0.0 / 3205.39 / 4.22 / 0.34 / -0.004 *XS*

SEE NEXT BEACH

END OF THIS PROFILE

COMPUTED WSC VALUES FOR BOONE CREEK SECTION TO A1 (OVERLAND) FINAL
PROFILE NUMBER 31 DOWNSTREAM COMPUTATIONS

SECTION	WSC	WSC	WSC	WSC	WSC
SECTION 1	3184.63	3191.32	3196.25	3201.32	3204.69

PAGE 1 OF PROFILE NOTES FOR MOONE CREEK, SECT. AG TO AI, OVERLAND, FINAL
PROFILE NUMBER 00, 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 = 3204.30 & WS = 3203.30

USED DEL = 0.25

AK-AL: WS NOT FOUND BETWEEN

WS = 3204.69 & 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 = 3196.25 & WS = 3194.90

USED DEL = 0.25

AJ : WS NOT FOUND BETWEEN

WS = 3196.25 & WS = 3194.90

USED KE = 0.5

AJ : WS NOT FOUND

ASSUMED WS = WSC

AJ : SUPERCRITICAL WS

COMPUTED WSA

AH : WS NOT FOUND BETWEEN

WS = 3191.32 & WS = 3189.70

USED DEL = 0.25

AH : WS NOT FOUND BETWEEN

WS = 3191.32 & WS = 3189.70

USED KE = 0.5

AH : WS NOT FOUND

ASSUMED WS = WSC

AGTOP: SUPERCRITICAL WS

COMPUTED WSA

AG : SUPERCRITICAL WS

COMPUTED WSA

50 YR

WATER-SURFACE PROFILE FOR BOONE CREEK, SECT. AG TO AT, OVERLAND, FINAL
 PAGE 1 OF 1, PROFILE NUMBER 4, 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	1350	113	7641	1.00	7	32
3201.86	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	AJ	8495	-244	989	142	8152	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	1.36	0.005	XS*	
AJ	AI	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	S*	
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	5749	1.26	0	125
3184.22	1.38	5.53	0.0	3185.00	6.37	1.54	-0.002	XS*	
AG	AT	7492	-3	1520	87	5866	1.00	94	116
3186.68	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

SECT	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

SECT	AL
WSC	3201.88

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

SECT	AG	AGTOP	AI	AJ-AK	AK
WSA	3185.11	3185.30	3195.96	3195.74	3201.54

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK, SECT AG TO AI, OVERLAND, FINAL
PROFILE NUMBER 15, UPSTREAM COMPUTATIONS

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

AGTOP: WS NOT FOUND BETWEEN
; WS = 3189.55 & WS = 3190.00;

USED DEL = 0.25

AHTOP: WS NOT FOUND BETWEEN
; WS = 3183.55 & WS = 3190.00;

USED WSMIN = WSC

AGTOP: WS NOT FOUND
; WS = 3183.55 & WS = 3190.00;

ASSUMED WS = WSC

AH : WS TOO LOW
; WS = 3183.55 & WS = 3190.00;

USED WSMIN = WSC

AH : WS NOT FOUND BETWEEN
; WS = 3191.57 & WS = 3200.00;

USED DEL = 0.25

AH : WS NOT FOUND
; WS = 3191.57 & WS = 3200.00;

ASSUMED WS = WSC

AJ : WS TOO LOW
; WS = 3191.57 & WS = 3200.00;

USED WSMIN = WSC

AJ : WS NOT FOUND BETWEEN
; WS = 3196.42 & WS = 3205.00;

USED DEL = 0.25

AJ : WS NOT FOUND
; WS = 3196.42 & WS = 3205.00;

ASSUMED WS = WSC

AJ-AK: KU/KD < 0.7 OR > 1.4

ALERTED USER

AK : WS TOO LOW
; WS = 3201.52 & WS = 3210.00;

USED WSMIN = WSC

AK : WS NOT FOUND BETWEEN
; WS = 3201.52 & WS = 3210.00;

USED DEL = 0.25

AK : WS NOT FOUND
; WS = 3201.52 & WS = 3210.00;

ASSUMED WS = WSC

AK-AL: WS TOO LOW
; WS = 3204.87 & WS = 3210.00;

USED WSMIN = WSC

AK-AL: WS NOT FOUND BETWEEN
; WS = 3204.87 & WS = 3210.00;

USED DEL = 0.25

AK-AL: WS NOT FOUND
; WS = 3204.87 & WS = 3210.00;

ASSUMED WS = WSC

AL : KU/KD < 0.7 OR > 1.4

ALERTED USER

100 YR

WATER SURFACE PROFILE FOR DOONE CREEK SECT. AG TO AI OVERLAND FINAL
 PAGE 21 OF 31, PROFILE NUMBER 35, UPSTREAM COMPUTATIONS

SECT AT DISTANCE / LENGTH / DISCHARGE / AREA / CONVEYANCE / ALPHA / LEW / REF
 WS-ELEV / HV / HF / HE / EG / V / FN / ACC / ID*

AL AT 7495 / 3 / 1460. / 218. / 12436. / 1.15 / 0. / 126.
 3193.80 / 0.43 / ***** / ***** / 3185.23 / 8.95 / 0.74 / ***** *TS*

Profile computed
 in this section

Call OK

AVTOP AT 7495 / 3 / 1460. / 218. / 12436. / 1.10 / 0. / 126.
 3184.63 / 0.77 / ***** / ***** / 3185.60 / 6.71 / 0.79 / ***** *XS*

USE WSA 3186.53

AK AT 7805 / 310 / 1460. / 184. / 12059. / 1.00 / 0. / 126.
 3191.57 / 0.98 / ***** / ***** / 3192.55 / 7.93 / 1.00 / ***** *XS*

Call OK

AK AT 8079 / 274 / 1460. / 187. / 15701. / 1.00 / 0. / 62.
 3194.67 / 0.95 / 3.08 / 0.0 / 3195.64 / 7.82 / 0.79 / 0.003 *XS*

USE WSA 3195.29

AL AT 8119 / 40 / 1230. / 210. / 9404. / 1.00 / 51. / 333.
 3196.42 / 0.53 / ***** / ***** / 3196.95 / 5.85 / 0.99 / ***** *XS*

Call OK

AL-AM AT 8125 / 6 / 1230. / 730. / 73522. / 1.00 / 12. / 343.
 3196.92 / 0.94 / 0.01 / 0.0 / 3195.96 / 1.67 / 0.20 / -0.004 *XS*

OK

AM AT 8495 / 370 / 1230. / 205. / 13296. / 1.00 / 21. / 236.
 3201.52 / 0.54 / ***** / ***** / 3202.06 / 5.89 / 0.99 / ***** *XS*

USE WSA 3201.52

AM-AN AT 8739 / 244 / 1230. / 145. / 11199. / 1.00 / 2. / 190.
 3204.87 / 0.62 / ***** / ***** / 3205.49 / 6.31 / 0.99 / ***** *XS*

Call OK

AN AT 8763 / 24 / 1590. / 355. / 26660. / 1.15 / 2. / 191.
 3205.23 / 0.36 / 0.16 / 0.0 / 3205.65 / 4.47 / 0.36 / -0.004 *XS*

OK USE 3205.55

SEE NEXT BEACH

END OF THIS PROFILE

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

SECTID	AGTOP	AH	AJ	EAK	EAK-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 8, DOWNSTREAM COMPUTATIONS

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

AL : WS TOO LOW
AK-AL : WS NOT FOUND BETWEEN
; WS = 3204.87 & WS = 3203.30;
ASSUMED WS = WSC

AK-AL : WS NOT FOUND BETWEEN
; WS = 3204.87 & WS = 3203.30;
USED DEL = 0.25

AK-AL : WS NOT FOUND
; WS = 3204.87 & WS = 3203.30;
USED KE = 0.5

AK : SUPERCRITICAL WS
; WS = 3204.87 & WS = 3203.30;
ASSUMED WS = WSC

AJ-AK : SUPERCRITICAL WS
; WS = 3204.87 & WS = 3203.30;
COMPUTED WSA

AJ : WS NOT FOUND BETWEEN
; WS = 3196.42 & WS = 3194.90;
COMPUTED WSA

AJ : WS NOT FOUND BETWEEN
; WS = 3196.42 & WS = 3194.90;
USED DEL = 0.25

AJ : WS NOT FOUND
; WS = 3196.42 & WS = 3194.90;
USED KE = 0.5

AI : SUPERCRITICAL WS
; WS = 3196.42 & WS = 3194.90;
ASSUMED WS = WSC

AI : SUPERCRITICAL WS
; WS = 3196.42 & WS = 3194.90;
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

AG : WS NOT FOUND
; WS = 3191.57 & WS = 3189.70;
ASSUMED WS = WSC

AGSTOP : KU/KD < 0.7 OR > 1.4
; WS = 3191.57 & WS = 3189.70;
ALERTED USER

AGSTOP : SUPERCRITICAL WS
; WS = 3191.57 & WS = 3189.70;
COMPUTED WSA

AG : SUPERCRITICAL WS
; WS = 3191.57 & WS = 3189.70;
COMPUTED WSA

100 YR DOWN

WATER-SURFACE PROFILE FOR BOONE CREEK SECT AG TO AI OVERLAND FINAL
 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
AL	AT	8753	-0	1590	127	9078	1.00	76	32
3202.45		2.42			3204.87	12.48	1.00		*IS*
AK-AL	AT	8739	-24	1230	195	11199	1.00	2	190
3204.87		0.62	*****	*****	3205.49	6.31	1.00	*****	*XS*
AK	AT	8495	-244	1230	154	9803	1.00	23	236
3201.27		0.87	3.36	0.0	3202.14	7.48	1.32	0.0010	*XS*
AJ-AK	AT	8125	-370	1230	177	9108	1.00	24	335
3195.11		0.75	0.27	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	0.65	0.0	3185.90	8.97	1.52	0.005	*XS*
AG	AT	7492	-3	1780	108	7421	1.00	91	119
3181.53		0.24	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

SECT	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

SECT	AL
WSC	3202.45

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

SECT	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 7: 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 : FROM FAILURE	: WS = 3195.75 & FR = 4.92:	USED HIGHER WS
AJ : FROM FAILURE	: WS = 3196.40 & FR = 1.50:	USED HIGHER WS
AJ : WS NOT FOUND BETWEEN	: WS = 3195.32 & WS = 3205.50:	USED DEL = 0.25
AJ : FROM FAILURE	: WS = 3195.75 & FR = 4.93:	USED HIGHER WS
AJ : FROM FAILURE	: WS = 3195.40 & FR = 1.50:	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 : R0/RD < 0.7 OR > 1.4	:	ALERTED USER
AK : WS TOO LOW	:	USED WSMIN = WSC
AK : WS NOT FOUND BETWEEN	: WS = 3201.40 & 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 : R0/RD < 0.7 OR > 1.4	:	ALERTED USER

500YR

WATER SURFACE PROFILE FOR BOONE CREEK, SECT. AC. TO A1, OVERLAND, FINAL
 PAGE 1 OF 1, PROFILE NUMBER 7, UPSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEV	REW
WS	ELEV	HV	HF	HE	EG	V	FN	ACC	ID
CALL OK	AT	7492	0	2510.0	284.0	21406.0	1.26	0.0	125.0
	3184.54	1.58			3186.07	8.85	0.76		*IS*
USE WSA 3186.19	ATOP	7495	3	2190.0	276.0	17716.0	1.05	-2.0	127.0
	3185.27	1.02	*****	*****	3185.31	7.93	0.84	*****	*XS*
CUT OK	LA	7805	310	2190.0	243.0	18859.0	1.00	0.0	95.0
	3192.19	1.27	*****	*****	3193.46	9.03	1.00	*****	*XS*
USE WSA 3195.62	AK	8079	274	2190.0	249.0	21052.0	1.00	0.0	99.0
	3195.71	1.20	3.31	0.0	3195.17	8.79	0.89	0.008	*XS*
CUT OK	AL	8119	40	1890.0	293.0	14932.0	1.00	44.0	343.0
	3196.82	0.65	*****	*****	3197.47	6.44	0.98	*****	*XS*
OK	AM	8125	5	1890.0	295.0	15217.0	1.00	9.0	346.0
	3197.41	0.07	0.01	0.0	3197.48	2.11	0.23	-0.000	*XS*
USE WSA 3202.34	AN	8495	370	1890.0	290.0	20798.0	1.00	19.0	238.0
	3201.74	0.56	*****	*****	3202.56	6.52	1.00	*****	*XS*
CUT OK	AO	8739	244	1890.0	266.0	18044.0	1.00	2.0	193.0
	3205.31	0.78	*****	*****	3205.10	7.10	0.99	*****	*XS*
USE 3206.0	AP	8763	24	2250.0	441.0	35299.0	1.07	1.0	194.0
	3205.41	0.44	0.16	0.0	3206.25	5.11	0.39	-0.010	*XS*

SEE NEXT REACH

END OF THIS PROFILE

COMPUTED WSC VALUES FOR BOONE CREEK SECTION TO A1 OVERLAND FINAL
PROFILE NUMBER 177 UPSTREAM COMPUTATIONS

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

PAGE 11 OF PROFILE NOTES FOR BOONE CREEK - SECT AG TO AL - OVERLAND - FINAL
PROFILE NUMBER 5 - DOWNSTREAM COMPUTATIONS

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

AL : WS TOO LOW

ASSUMED WS = WSO

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 = 3196.62 & WS = 3194.90

USED DEL = 0.25

AJ : WS NOT FOUND BETWEEN

WS = 3196.62 & 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/KO < 0.7 OR > 1.0

ALERTED USER

AGTOP: SUPERCRITICAL WS

COMPUTED WSA

AG : SUPERCRITICAL WS

COMPUTED WSA

5007e

WATER SURFACE PROFILE FOR: BOONE CREEK, SECT AG TO AI OVERLAND FINAL
 PAGE 1 OF 1, PROFILE NUMBER 0, DOWNSTREAM COMPUTATIONS

SECT	AT	DISTANCE /	LENGTH /	DISCHARGE /	AREA /	CONVEYANCE /	ALPHA /	LEW /	REW
WS ELEV /	HV /	HF /	HE /	EG /	V /	FN /	ACC	*ID*	
AL	AT	8768 /	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. /	297.
3201.59 /	1.12 /	93.38 /	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 /	3195.79 /	11.27 /	1.12 /	0.015 /		*XS*
AH	AT	7805 /	-274 /	2190. /	243. /	18854. /	1.00 /	0. /	95.
3192.19 /	1.27 /	***** /	***** /	3193.46 /	9.63 /	1.00 /	***** /		*XS*
AH-AP	AI	7495 /	-313 /	2190. /	298. /	11635. /	1.11 /	6. /	126.
3184.75 /	1.92 /	6.76 /	1.0 /	3185.07 /	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

SECTID	AG	AGTOP	AH	AI	AJ	AJ-AK	AK	AK-AL
WSC	3184.87	3185.29	3192.19	3195.22	3196.82	3195.66	3201.90	3205.31

SECTID AL
WSC 3205.11

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

SECTID	AG	AGTOP	AI	AJ-AK	AK
WSA	3186.16	3186.19	3195.62	3195.97	3202.14

*** 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 OVERLAND FLOW AL TO AO 2ND TRY 7 8 01 99 10							
2	2 320445 499999 320506 -99999 320529 -99999 320581 -99999							
3	3000	AN AL	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	NI	2 050 050	1 2 030 030				
3	3100	AETOP	1 11	2 3204	8766	99 99		
4	3101		610 610	1145 1145	1370 1370	2040 2040		
5	3105		-30 1 32100	0 1 32067	32 1 32031	38 2 32035	100 2 32041	
5	3106		148 2 32048	155 2 32049	165 2 32062	185 2 32061	190 2 32052	
5	3107		220 2 32100					
6	3110	1	2 050 050	1 2 030 030				
3	3200	AM	0 13	1 3206	8904	99 99		
5	3205	AD	45 1 32200	45 1 32080	70 1 32063	75 1 32058	100 1 32061	
5	3206		112 1 32069	120 1 32086	135 1 32086	156 1 32080	172 1 32065	
5	3207		222 1 32089	267 1 32114	330 1 32160			
6	3210	1	2 045 045					
3	3300	BC-BB	0 12	1 3209	8974	99 99		
5	3305	AP	0 1 32200	0 1 32090	6 1 32088	10 1 32083	24 1 32087	
5	3306		40 1 32092	49 1 32090	51 1 32105	56 1 32109	80 1 32110	
5	3307		106 1 32116	200 1 32150				
6	3310	1	2 045 045					
3	3400	ROAD	0 8	1 3209	9030	99 99		
5	3405		-15 1 32136	35 1 32091	75 1 32086	135 1 32099	170 1 32102	
5	3406		187 1 32096	195 1 32106	201 1 32135			
6	3410	1	2 040 040					
3	3500	AN PA	1 16	3 3205	9059	99 99		
4	3501	AP	820 820	1350 1350	1590 1590	2250 2250		
5	3505		0 1 32126	30 1 32114	58 2 32114	63 2 32088	68 2 32062	
5	3506		70 2 32043	74 2 32041	79 2 32043	81 2 32055	98 2 32095	
5	3507		110 3 32109	154 3 32109	175 3 32104	187 3 32098	195 3 32108	
5	3508		201 3 32137					
6	3510	1	2 100 100	1 4 045 040	1 2 045 045			
3	3600	AO	0 15	2 3207	9140	99 99		
5	3605	AS AP	0 1 32158	0 1 32138	6 1 32133	10 1 32072	12 1 32067	
5	3606		23 1 32069	27 1 32090	33 2 32131	50 2 32124	80 2 32123	
5	3607		97 2 32135	121 2 32139	124 2 32133	160 2 32148	180 2 32158	
6	3610	1	2 050 050	1 2 045 045				

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

INPUT SUMMARY FOR: BOONE CREEK OVERLAND FLOW AL TO AO 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 ALI 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	80252	1.01	218	229	-10	207	9587
3210.0	1349	175014	1.09	250	261	-29	220	16998

CROSS-SECTION PROPERTIES FOR: BOONE CREEK OVERLAND FLOW ALI 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	66	66	24	90	66
3210.0	1155	148056	1.15	250	251	-29	220	13146

CROSS-SECTION PROPERTIES FOR: BOONE CREEK OVERLAND FLOW ALI 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	57380

CROSS-SECTION PROPERTIES FOR: BOONE CREEK OVERLAND FLOW ALI 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 ALI 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

CROSS-SECTION PROPERTIES FOR: BOONE CREEK OVERLAND FLOW ALI TO AO 2ND TRY
 SECID=AN AT DISTANCE= 9050 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEN	REN	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 ALI TO AO 2ND TRY
 SECID=AO AT DISTANCE= 9140 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEN	REN	QC
3207.0	2	24	1.00	12	12	11	23	6
3215.8	547	38375	1.16	180	187	0	180	5019

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

SECID: ERROR (WARNING) MESSAGES: 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 WSHIN = WSC

BC-BD: WS TOO LOW

USED WSHIN = 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

AD: KU/KD < 0.7 OR > 1.4

ALERTED USER

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

SECTION	AT	ELEV	RV	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	4786	1.03	16	155	
		3204.92	0.44	*****	3205.36	5.21	1.09	*****		*XS*
AM	AT	8904	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 ⁵⁰	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*
AO	AT ⁵⁰	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*

USE
3204.9

USE NSA
3208.13

CRIT
OK

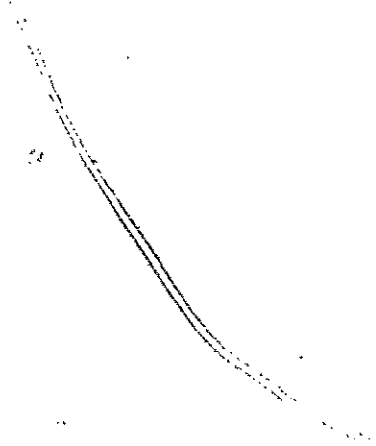
Profile extended

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

SECTION: ALTOP WAH BC-BD
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	:	USED DEL = 0.25
	: WS = 3210.17 & WS = 3208.80 :	
ROAD: WS NOT FOUND BETWEEN	:	USED KE = 0.5
	: WS = 3210.17 & WS = 3208.80 :	
ROAD: WS NOT FOUND	:	ASSUMED WS = WSC
BC-BD: WS NOT FOUND BETWEEN	:	USED DEL = 0.25
	: WS = 3210.49 & WS = 3208.50 :	
BC-BD: WS NOT FOUND BETWEEN	:	USED KE = 0.5
	: WS = 3210.49 & WS = 3208.50 :	
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	:	USED DEL = 0.25
	: WS = 3204.92 & WS = 3203.30 :	
ALTOP: WS NOT FOUND BETWEEN	:	USED KE = 0.5
	: WS = 3204.92 & WS = 3203.30 :	
ALTOP: WS NOT FOUND	:	ASSUMED WS = WSC
AL: KU/KD < 0.7 OR > 1.4	:	ALERTED USER
AL: SUPERCRITICAL WS	:	COMPUTED WSA



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

SECTION	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEN	REMARKS
WS ELEV	HV	HFT	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	4706	1.03	16	155
3204.92	0.44	*****	*****	3205.36	5.21	1.02	*****		*XS*
AL	AT	8763	-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*

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 AD 2ND TRY
PROFILE NUMBER 2 DOWNSTREAM COMPUTATIONS

SECID	AL	ALTOP	AM	BD	BD	ROAD	AN	AD
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 AD 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 TRY
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 = 3208.91 & 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



50-42

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	HE	EG	V	FN	ACC	ID*	
AL	AT	8763	0	1350	320	23411	1.20	2	156
3205.06					3205.39	4.22	0.34		*IS*
ALTOR	AT	8766	3	1145	186	9830	1.06	12	191
3295.40					3206.03	6.14	1.05		*XS*
AM	AT	8904	138	1145	179	6994	1.00	45	210
3208.31					3208.95	6.41	0.99		*XS*
BC-BD	AT	8974	70	1145	162	7118	1.00	0	104
3211.54					3212.32	7.05	0.99		*XS*
ROAD	AT	9030	56	1145	559	40974	1.00	-3	199
3212.50					3212.57	2.05	0.22		*XS*
AN	AT	9059	29	1350	451	33969	1.52	3	198
3212.46					3212.67	2.99	0.33		*XS*
AO	AT	9140	81	1350	193	11836	1.31	4	128
3213.48					3214.48	7.00	0.69		*XS*

USE 3205.4

CAIT OK

USE WSA 3209.0

CAIT OK

*Profile smoothed
USE 3212.7*

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 AD 2ND TRY
PROFILE NUMBER 3. UPSTREAM COMPUTATIONS

SECID	ALTOP	AM	BC-BD	AD
WSC	3205.40	3208.31	3211.54	3213.48

USGS STEP-BACKWATER PROGRAM -- VERSION 77.180 *** PAGE COUNT= 15, DATE=10/13/77

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:

A0;	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-BD;	WS NOT FOUND BETWEEN	WS = 3211.54 & WS = 3208.50	USED DEL = 0.25
BC-BD;	WS NOT FOUND BETWEEN	WS = 3211.54 & 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 = 3205.40 & WS = 3203.30	USED DEL = 0.25
ALTOP;	WS NOT FOUND BETWEEN	WS = 3205.40 & 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

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

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=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ALPHA/ LEW / RW
WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
AO 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 / 3.46 / 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. / 156. / 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	AM	ROAD	AN			
WSC	3201.68	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 A0 2ND TRY
PROFILE NUMBER 55 UPSTREAM COMPUTATIONS

SECID: 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 <i>ck</i>	;	ALERTED USER;
A0: WS NOT FOUND BETWEEN	; WS = 3212.49 & WS = 3215.80;	USED DEL = 0.25;
A0: WS NOT FOUND BETWEEN	; WS = 3212.49 & WS = 3215.80;	USED WSMIN = WSC;
A0: WS NOT FOUND	;	ASSUMED WS = WSC;

100 yd

WATER-SURFACE PROFILE FOR: BOONE CREEK OVERLAND FLOW AL TO A0 2ND TRY
 PAGE 15 OF 11, PROFILE NUMBER 5, UPSTREAM COMPUTATIONS

SECTION AT DISTANCE / LENGTH / DISCHARGE / AREA / CONVEYANCE / ALPHA / LEN / REW
 WS ELEV / AV / CH / RE / EG / V / FN / ACC / ID

smoothed

USE 3205.55

AN AT 8763 / 0 / 1590 / 356 / 26692 / 1.115 / 2 / 191
 3205.29 / 0.36 / / 3205.65 / 4.47 / 0.36 / *IS*

CRITOK

ATOP AT 8766 / 3 / 1370 / 211 / 11896 / 1.07 / 10 / 192
 3205.57 / 0.70 / ***** / ***** / 3206.26 / 6.48 / 1.06 / ***** *XS*

USE 3209.80

3209.80

AM AT 8904 / 138 / 1370 / 207 / 8435 / 1.00 / 45 / 214
 3209.50 / 0.68 / ***** / ***** / 3209.19 / 6.63 / 1.00 / ***** *XS*

CRITOK

BC-BD AT 8974 / 70 / 1370 / 187 / 8617 / 1.00 / 0 / 111
 3211.77 / 0.83 / ***** / ***** / 3212.61 / 7.32 / 0.99 / ***** *XS*

ROAD AT 9030 / 56 / 1370 / 616 / 47651 / 1.00 / -6 / 200
 3212.79 / 0.08 / 0.26 / 0.0 / 3212.86 / 2.22 / 0.23 / -0.000 *XS*

smoothed

USE 3212.98

AP AT 9059 / 29 / 1590 / 506 / 38873 / 1.53 / 0 / 199
 3212.74 / 0.24 / 0.03 / 0.08 / 3212.98 / 3.14 / 0.34 / -0.001 *XS*

CRIT

OK

A0 AT 9140 / 81 / 1590 / 231 / 13264 / 1.37 / 0 / 136
 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 ALTO AD 2ND TRY
PROFILE NUMBER 5; UPSTREAM COMPUTATIONS

SECID: A L T O P I A M I E S B C - B D I A O
WSC: 3205.57 3208.50 3211.77 3213.81

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:

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

10042

WATER-SURFACE PROFILE FOR: BOONE CREEK OVERLAND FLOW ALI 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	HFI	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	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	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	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	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 AD 2ND TRY
PROFILE NUMBER: 6, DOWNSTREAM COMPUTATIONS:

SECID ALI ALTOP AM BC-BD ROAD AN AO
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 AD 2ND TRY
PROFILE NUMBER: 6, DOWNSTREAM COMPUTATIONS:

SECID ALI AM ROAD AN
WSA 3205.97 3209.30 3211.12 3212.54

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 AD 2ND TRY
PAGE 1 OF 1, PROFILE NUMBER 7, UPSTREAM COMPUTATIONS

SECID AT DISTANCE / LENGTH / DISCHARGE / AREA / CONVEYANCE / ALPHA / LEW / REW
WS ELEV / IRV / HF / HE / EG / V / FN / ACC / ID *

*smoothed
USE 8206.0*

AL AT 8763 / 0 / 2250 / 440 / 35264 / 1.07 / 1 / 194
3205.81 / 0.44 / / 3206.25 / 5.11 / 0.39 / *IS*

OK

ALTOP AT 8766 / 3 / 2040 / 284 / 18493 / 1.08 / 6 / 195
3206.02 / 0.87 / ***** / ***** / 3206.88 / 7.19 / 1.05 / ***** *XS*

USE WSA 3201.99

AM AT 8904 / 138 / 2040 / 287 / 12945 / 1.00 / 45 / 223
-3208.97 / 0.79 / ***** / ***** / 3209.76 / 7.12 / 0.99 / ***** *XS*

CRIT CR

BC-BD AT 8974 / 70 / 2040 / 255 / 13225 / 1.00 / 0 / 127
3212.35 / 0.99 / ***** / ***** / 3213.34 / 7.99 / 0.99 / ***** *XS*

*smoothed
USE 7213.7*

ROAD AT 9030 / 56 / 2040 / 766 / 66345 / 1.00 / -14 / 201
3213.50 / 0.11 / 0.27 / 0.0 / 3213.61 / 2.66 / 0.25 / 0.000 *XS*

CRIT OK

AN AT 9059 / 29 / 2250 / 647 / 52922 / 1.53 / 0 / 200
3213.44 / 0.29 / 0.04 / 0.09 / 3213.73 / 3.48 / 0.36 / -0.000 *XS*

AD AT 9140 / 81 / 2250 / 327 / 19737 / 1.32 / 0 / 152
3214.48 / 0.97 / ***** / ***** / 3215.45 / 6.87 / 0.70 / ***** *XS*

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 ^{500 yd} 2ND TRY
PROFILE NUMBER: 7, UPSTREAM COMPUTATIONS

SECTIONAL TOP: 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 A0 2ND TRY
PROFILE NUMBER 8: DOWNSTREAM COMPUTATIONS

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

AO: WS TOO LOW	;		ASSUMED WS = WSC
AM: KU/KD < 0.7 OR > 1.4	;		ALERTED USER
AM: SUPERCRITICAL WS	;		COMPUTED WSA
AM: 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	;		ASSUMED WS = WSC
AM: KU/KD < 0.7 OR > 1.4	;		ALERTED USER
AM: SUPERCRITICAL WS	;		COMPUTED WSA
ALTOP: WS NOT FOUND BETWEEN	;	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

5007

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

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=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA/ CONVEYANCE/ ALPHA/ LEW/ REW
WS ELEV/ HV/ HFI/ HEI/ 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*
-----
AM 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/ 3.60/ 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 AD 2ND TRY
PROFILE NUMBER 8, DOWNSTREAM COMPUTATIONS

SECID	AL	ALTOP	AM	BC-BD	ROAD	AN	AD
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 AD 2ND TRY
PROFILE NUMBER 8, DOWNSTREAM COMPUTATIONS

SECID	AL	AM	ROAD	AN
WSA	3206.58	3209.99	3211.97	3213.43

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 " 0

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

10 YEAR

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

Note - part of flow going to Winkler Creek

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

50 YEAR

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 / 3119.58 / 5.98 / 0.42 / 0.005 *XS*
=====
```

END OF THIS PROFILE

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 10&50 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

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 12,DATE=11/ 3/77

PAGE 1 OF PROFILE NOTES FOR: BUONE 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-BDN; KU/KD < 0.7 OR > 1.4 ;

ALERTED USER

100 YR *McL*

WATER-SURFACE PROFILE FOR: BOONE CR. 100YR CHECKING
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	
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

*** INPUT CARD PRINTOUT ***

USE 2nd Profile

	1	2	3	4	5	6	7	8
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				

*X - SECTIONS USED; ALL PROFILES
K Winkler to A-Boone*

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

use

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 9, DATE=10/31/77

500 YR

WATER-SURFACE PROFILE FOR: BOONE CREEK K WINK TO A-BOONE: 500 YEAR
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*
=====
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 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

USGS STEP-BACKWATER PROGRAM - 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

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

10 year Flood Q = 1110 TW = 317.61 HW = 18.44
 50 year Flood Q = 1400 TW = 342.02 HW = 2120.56
 100 year Flood Q = 1500 TW = 317.62 HW = 3131.94
 500 year Flood Flow over Road TW = 3120.77 HW = 3124.07

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

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

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

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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	<u>19.79</u>	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	<u>22.24</u>	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	<u>23.13</u>	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

$h_4 = 6.33$
 $h_c = 4.78$
 $h_4/h_c > 1$
 Type 3 flow proved

$h_4 = 8.12$
 $h_c = 6.34$
 $h_4/h_c > 1$
 Type 3 flow proved

$h_4 = 8.74$
 $h_c = 6.90$
 $h_4/h_c > 1$
 Type 3 flow proved

BOONE CREEK

CUL A-D

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

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

BOONE CREEK

CUL A-8

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	85.32
9.220	276.60	36015.7	30.00	87.53

BOONE CREEK

CUL A-B

BASE ELEVATION =

11.48

Z = 0.55

Q	ELEV HI	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	17.90	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	18.60	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

MOONE CREEK

CUL A-B

BASE ELEVATION = 11.48

Z = 0.55

Q	ELEV H1	ELEV H4	D1	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	19.86	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		7.48	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

*** INPUT CARD PRINTOUT ***

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.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0
1      1 BOONE CREEK CHECKING 500 YEAR OK 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
    
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*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8			
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 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 "

9

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 MCD 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
3128.9	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=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

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8
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	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 31276	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 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	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 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	224558	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

*** INPUT CARD PRINTOUT ***

	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

USE

23.75 At Hedges

100 yr 1210
500 yr 1550

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8			
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	437	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 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 100 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 100 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 100 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 100 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
3128.9	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

10 YEAR

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	LEN	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			-0.001 *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			0.001 *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			-0.013 *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			0.004 *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			0.004 *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 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

50 YEAR

WATER-SURFACE PROFILE FOR: BOONE CREEK FINAL 10YR & 50 YR B TO E FINAL
 PAGE 1 OF 1; PROFILE NUMBER 2; 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*
=====
B AT 646 / 0 / 1900. / 1372. / 110939. / 1.01 / 50. / 400.
3120.56 / 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 / 3122.38 / 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*
=====
    
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END OF THIS PROFILE

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

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

100 YR

WATER-SURFACE PROFILE FOR: BOONE CREEK CHECKING 100 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	2520.	1857.	181227.	1.00	47.	400.
3121.94	0.03			3121.97	1.36	0.11		*IS*	
BC-TW	AT	670	24	2520.	1493.	164230.	1.06	1.	300.
3121.94	0.05	0.01	0.01	3121.99	1.69	0.13	0.000	*XS*	
BC-AP	AT	903	233	2520.	426.	26121.	1.52	8.	295.
3122.29	0.83	0.34	0.78	3123.11	5.91	0.57	0.000	*XS*	
C MOD	AT	961	58	2520.	1153.	83842.	1.00	46.	380.
3123.0 3123.21	0.07	0.17	0.0	3123.28	2.18	0.19	0.000	*XS*	
D	AT	1565	604	3090.	1560.	119934.	1.24	15.	540.
3123.68	0.08	0.47	0.00	3123.75	1.98	0.23	0.001	*XS*	
D+.6	AT	1775	210	2380.	1327.	92959.	1.26	19.	540.
3123.83	0.06	0.14	0.0	3123.90	1.79	0.22	-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*	

Averaged with some sections on Winkler Creek

END OF THIS PROFILE

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	
E-.6 ; FRDN FAILURE			USED HIGHER WS
	WS = 3123.63	& FR = 2.20	
E-.6 ; WS NOT FOUND BETWEEN			USED HIGHER WS
	WS = 3123.58	& WS = 3130.60	
E-.6 ; FRDN FAILURE			USED DEL = 0.25
	WS = 3123.60	& FR = 2.22	
E-.6 ; FRDN FAILURE			USED HIGHER WS
	WS = 3123.63	& FR = 2.20	
E-.6 ; WS NOT FOUND BETWEEN			USED HIGHER WS
	WS = 3123.58	& 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

COMPUTED WSC VALUES FOR: BOONE CREEK CHECKING 100 YEAR B-E
PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECID E-6
WSC 3125.73



500 YEAR

WATER-SURFACE PROFILE FOR: BOONE CREEK CHECKING 500 YEAR OK B-E
 PAGE 2 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.	317258.	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 CULVERT
COMPS

COMPUTED WSC VALUES FOR: BOONE CREEK CHECKING 500 YEAR B-E
PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECID E-6
WSC 3126.16

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 ;
USED DEL = 0.25

E-.6 ; WS NOT FOUND BETWEEN ; WS = 3124.71 & 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

Floodway Boone Creek - ONLY SECTION COMPUTED

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 1, DATE=11/22/77

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8
1	1							
2	2							
3	300	C MOD 1	23	1	3118	961	99	99
4	301	2520						
5	303	0	1	31300	0	1	31276	36
5	304	62	1	31192	67	1	31183	79
5	305	98	1	31148	101	1	31158	104
5	306	200	1	31197	264	1	31192	264
5	307	343	1	31202	380	1	31202	380
6	309	1	2	050	050			
3	400	0	1	21	3	3119	1565	99
4	401	3090						
5	403	0	1	31305	16	1	31234	40
5	404	163	1	31200	200	1	31192	218
5	405	225	2	31178	232	2	31181	237
5	406	260	3	31203	300	3	31202	400
5	407	540	3	31310				
6	409	1	2	060	060	2	3	050
3	415	0+.6	1	21	3	3120	1775	99
4	416	2380						
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	31208	400
5	422	540	3	31316				
6	425	1	2	060	060	2	3	050
3	440	F-.6	0	26	3	3122	1948	99
5	443	0	1	31306	30	1	31298	31
5	444	120	1	31250	130	1	31247	150
5	445	179	2	31231	183	2	31206	188
5	446	202	2	31192	204	2	31213	208
5	447	300	3	31258	350	3	31259	450
5	448	595	3	31304				
6	450	1	2	060	060	4	5	045
3	480	F-REG 0	26	3	3122	2160	99	99
5	483	0	1	31312	30	1	31304	31
5	484	133	1	31274	133	1	31350	170
5	485	179	2	31237	183	2	31212	188
5	486	202	2	31198	204	2	31219	208
5	487	300	3	31264	350	3	31265	450
5	488	595	3	31310				
6	490	1	2	060	060	4	5	045

USE

*No Encroachment at C Mod
Encroachment on left bank only E
Encroachment Equal Conveyance at D.*

*C Must be kept clear for water to
flow across to Winkler Creek.*

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	320	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

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	3398	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

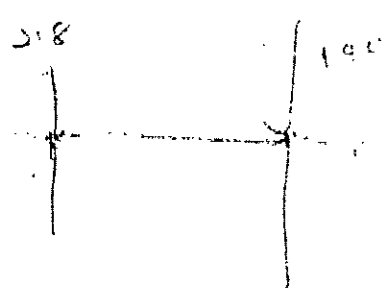
2931

WATER-SURFACE PROFILE FOR: BOONE CREEK FLOODWAY C-E FIRST
 PAGE 1 OF 1, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS
 *** FLOODWAY ANALYSIS *** AT BANK LT,NO RIGHT

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	3.85	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*

226

END OF THIS PROFILE



COMPUTED WSC VALUES FOR: BOONE CREEK FLOODWAY C-E
PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

FIRST

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	480	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	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= 8/ 5/77

INPUT SUMMARY FOR: BOONE CREEK 10&50-YR PROFILES UP&DOWNST D-G

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 10&50-YR 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	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	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 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	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	17755	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 10&50-YR PROFILES UP&DOWNST D-6
 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	901199	1.19	540	552	0	540	90266

CROSS-SECTION PROPERTIES FOR: BOONE CREEK 10&50-YR PROFILES UP&DOWNST D-6
 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	380	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-6
 SECID=E-REG 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-6
 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: BOONE 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	75281

CROSS-SECTION PROPERTIES FOR: BOONE 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	33	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: BOONE 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: BOONE 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: BOONE CREEK 10&50-YR PROFILES UP&DOWNST D-G
 SECID=F-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: 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

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8
.....	5	0	5	0	5	0	5	0
7	10000			0 0 2 2				
8	10001			0 0 0 0				

PAGE: 1 OF PROFILE NOTES FOR: BOONE CREEK 10&50-YR PROFILES UP&DOWNST D-6
PROFILE NUMBER: 1, UPSTREAM COMPUTATIONS

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

E-.6 ; FRDN 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 ; FRDN 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

10-year

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	LEW	REW
WS ELEV	HV	HF	HE	EG	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	0.000	*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	0.004	*XS*	
F-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	-0.014	*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	-0.000	*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	0.013	*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	-0.003	*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	0.001	*XS*	

OK
OK
*3124.2
OK

END OF THIS PROFILE

SEE upstream with E-6 restricted at 350'

All E sections would have a high spot around sta 550. Water flowing over road would flow to right of this high spot and would create an Island around 350'. At E-6 flow ^{in main channel} would be less than 1300 cfs. Since 3124.2 is critical elevation at E-6 with 1300 cfs, less water would flow at a shallower depth. Use 3124.2 as a max cond.

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-G
PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECID E-.6
WSC 3125.20

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK 10&50-YR PROFILES UP&DOWNST D-6
PROFILE NUMBER 2, UPSTREAM COMPUTATIONS

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

E-.6 : FRDN 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 : FRDN 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
BR-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

10

50 year USE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 15. DATE= 8/ 5/77

50YR

WATER-SURFACE PROFILE FOR: BOONE CREEK 10-50-YR 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	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.	636.	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*

SEE Previous sheets

OK USE

OK

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 16 DATE= 8/ 5/77

COMPUTED WSC VALUES FOR: BOONE CREEK 10450-YR PROFILES UP&DOWNST: D-6
PROFILE NUMBER 2. UPSTREAM COMPUTATIONS

SECID: E-6 AP-EF
WSC: 3125.59 3127.77

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10 YR.

PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK 10-YR PROFILES UP&DOWNST D-3
PROFILE NUMBER 3, DOWNSTREAM COMPUTATIONS

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

F-APP; WS NOT FOUND BETWEEN		ASSUMED WS = WSC
F-APP; WS NOT FOUND BETWEEN		WS = 3125.33 & WS = 3119.50
F-APP; WS NOT FOUND		USED DEL = 0.25
AP-EF; WS NOT FOUND BETWEEN		WS = 3125.33 & WS = 3119.50
AP-EF; WS NOT FOUND BETWEEN		USED KE = 0.5
AP-EF; WS NOT FOUND		ASSUMED WS = WSC
BR-EF; WS NOT FOUND BETWEEN		WS = 3125.45 & WS = 3119.50
BR-EF; WS NOT FOUND BETWEEN		USED DEL = 0.25
BR-EF; WS NOT FOUND		WS = 3125.45 & WS = 3119.50
BR-EF; WS NOT FOUND		USED KE = 0.5
E-TW; WS NOT FOUND BETWEEN		ASSUMED WS = WSC
E-TW; WS NOT FOUND		WS = 3124.62 & WS = 3119.70
E-REG; WS NOT FOUND BETWEEN		USED DEL = 0.25
E-REG; WS NOT FOUND BETWEEN		WS = 3124.62 & WS = 3119.70
E-REG; WS NOT FOUND		USED KE = 0.5
E-.6; WS NOT FOUND BETWEEN		ASSUMED WS = WSC
E-.6; WS NOT FOUND BETWEEN		WS = 3125.80 & WS = 3119.60
E-.6; WS NOT FOUND		USED DEL = 0.25
D+.6; KU/KD < 0.7 OR > 1.4		ASSUMED WS = WSC
D+.6; SUPERCRITICAL WS		WS = 3125.80 & WS = 3119.60
		USED DEL = 0.25
		WS = 3125.80 & WS = 3119.60
		USED KE = 0.5
		ASSUMED WS = WSC
		WS = 3125.20 & WS = 3119.00
		USED DEL = 0.25
		WS = 3125.20 & WS = 3119.00
		USED KE = 0.5
		ASSUMED WS = WSC
		ALERTED USER
		COMPUTED WS

10/2/77

E. SECTIONA NOT RESTRICATED

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-G
PAGE 1 OF 1. PROFILE NUMBER: 3. DOWNSTREAM COMPUTATIONS

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=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
MS 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*
=====

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END OF THIS PROFILE

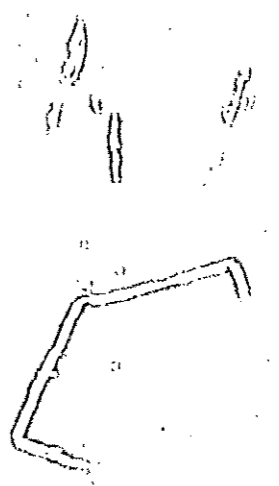
COMPUTED WSC VALUES FOR: BOONE CREEK 10&50-YR PROFILES UP&DOWNST D-G
PROFILE NUMBER 3. DOWNSTREAM COMPUTATIONS

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



PAGE 1 OF PROFILE NOTES FOR: BOONE CREEK 10&50-YR PROFILES UP&DOWNST D-0
 PROFILE NUMBER 4, DOWNSTREAM COMPUTATIONS

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

G	; WS TOO LOW				
F-APP	; WS NOT FOUND BETWEEN			ASSUMED WS = WSC	
		; WS = 3127.60 & WS = 3119.50;			
F-APP	; WS NOT FOUND BETWEEN			USED DEL = 0.25	
		; WS = 3127.60 & WS = 3119.50;			
F-APP	; WS NOT FOUND			USED KE = 0.5	
				ASSUMED WS = WSC	
AP-EF	; WS NOT FOUND BETWEEN				
		; WS = 3127.77 & WS = 3119.50;			
AP-EF	; WS NOT FOUND BETWEEN			USED DEL = 0.25	
		; WS = 3127.77 & WS = 3119.50;			
AP-EF	; WS NOT FOUND			USED KE = 0.5	
				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;			
E-.6	; WS NOT FOUND BETWEEN			USED DEL = 0.25	
		; WS = 3125.59 & WS = 3119.00;			
E-.5	; WS NOT FOUND			USED KE = 0.5	
				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;			
D	; WS NOT FOUND BETWEEN			USED DEL = 0.25	
		; WS = 3121.70 & WS = 3117.90;			
D	; WS NOT FOUND			USED KE = 0.5	
				ASSUMED WS = WSC	

50 year E-sections NOT REGRAINED

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-3
PAGE 1 OF 1, PROFILE NUMBER 4, DOWNSTREAM COMPUTATIONS

SECTION	AT	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.	510.	
		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	0.94	*****		*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.	1.38	111.	540.	
		3121.70	0.51	*****	3122.21	4.70	0.87	*****		*XS*

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 22 DATE= 8/5/77

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	E-APP
WSC	3121.70	3122.09	3125.59	3126.25	3126.25	3127.17	3127.77	3127.60

SECID	0
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

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

100 & 500 YR

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8
1	1	ROONE	CREEK	100&500YR	PROFILES	UP&DOWNST	D-S	9 4 02 05 12
2	2	312446	312592	-99999	-99999			
3	400	0	1	21	3	3119	1565	99 99
4	401	3090	4190	3090	4190			
5	403	0	1	31305	15	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	2380	3290	2380	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	31209	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 04
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-FE6	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	RR-FE	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 SUMMARY FOR: POONE CREEK 100&500YR PROFILES UP&DOWNST D-9

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: ROONE CREEK 100&500YR PROFILES UP&DOWNST D-6
 SECID=0 AT DISTANCE= 1565 PART 1 OF 1

WS	A	K	ALPHA	R	P	LEW	REW	OC
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	420	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	515	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	254478	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: HOOVE CREEK 100&500YR PROFILES UP&DOWNST D-6
 SECID=0+.6 AT DISTANCE= 1775 PART 1 OF 2

WS	A	K	ALPHA	R	P	LEW	REW	OC
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: ROONE 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	3252	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 100&500YR PROFILES UP&DOWNST D-G
 SECID=F-.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	534
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 100&500YR PROFILES UP&DOWNST D-6
 SECID=E-REG AT DISTANCE= 2150 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	93	595	10576
3128.5	1443	141883	1.07	485	495	73	595	13678
3129.0	1647	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	553	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 100&500YR PROFILES UP&DOWNST D-6
 SECID=F-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: ROONE CREEK 100&500YR PROFILES UP&DOWNST D-G
 SECID=F-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: ROONE CREEK 100&500YR PROFILES UP&DOWNST D-G
 SECID=PP-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	550	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: 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-EE 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	1168
3126.0	145	11385	1.11	61	65	173	234	1209
3126.5	180	14047	1.19	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	25828	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	1291	103383	1.19	596	601	15	610	9761
3130.5	1591	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	57	4161	1.00	23	25	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	44	53	173	222	1265
3126.5	165	13320	1.14	63	73	173	241	1374

CROSS-SECTION PROPERTIES FOR: HOONE 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	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	290	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: HOONE CREEK 100&500YR 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	19	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	20	36	0	29	1073
3128.0	126	5705	1.14	79	87	0	70	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	229	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	265	0	251	17559

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8
.....	5	0	5	0	5	0	5	0
7	10000			0 0	2 2			
R	10001			0 0	0 0			

PAGE 1 OF PROFILE NOTES FOR: ^{100 YR} ROONE CREEK 100,500 YR PROFILES UPDOWNST P-6
PROFILE NUMBER 1. UPSTREAM COMPUTATIONS

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

E-.6 : WS NOT FOUND BETWEEN	: WS = 3124.20 & WS = 3130.60:	USED DEL = 0.25
E-.6 : WS NOT FOUND BETWEEN	: WS = 3124.20 & 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
AP-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

100-yr

USE

WATER-SURFACE PROFILE FOR: ROONE 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	
0	AT	1565	0	3090.	1971.	174124.	1.22	14.	540.
3124.48		0.05		3124.51		1.57	0.17		*IS*
0+6	AT	1775	210	2780.	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.	27208.	1.31	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*
USE	E-T	2165	5	2380.	752.	47555.	1.21	177.	595.
3127.01		0.19	0.01	0.0	3127.20	3.16	0.39	-0.013	*XS*
99-FF	AT	2179	14	2380.	375.	21454.	1.42	199.	610.
3127.75	3127.09	0.89	0.08	0.70	3127.99	6.36	0.50	0.000	*XS*
10-FF	AT	2199	20	2380.	341.	24786.	1.44	170.	360.
OK	3127.79	1.09	*****	*****	3128.37	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	0.65	-0.009	*XS*
0	AT	2465	233	2380.	518.	23605.	1.48	0.	174.
3130.47		0.49	2.24	0.0	3131.45	4.59	0.46	-0.000	*XS*

OK
 MAX USED
 OK

FOR
 Profile smoothed
 in this reach

3127.75

OK

END OF THIS PROFILE

COMPUTED WSC VALUES FOR: ROONE CREEK 100&500YR PROFILES UP&DOWNST D-6
PROFILE NUMBER 1. UPSTREAM COMPUTATIONS

SECID E-6 AP-EF
WSC 3125.73 3127.78

100YR

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	:			
AP-EF	: WS NOT FOUND BETWEEN	:			ASSUMED WS = WSC
		:	WS = 3127.73 & WS = 3119.50:		
AP-EF	: WS NOT FOUND BETWEEN	:			USED DEL = 0.25
		:	WS = 3127.73 & WS = 3119.50:		
AP-EF	: WS NOT FOUND	:			USED KE = 0.5
RR-EF	: KU/KD < 0.7 OR > 1.4	:			ASSUMED WS = WSC
RR-EF	: SUPERCRITICAL WS	:			ALERTED USER
F-TW	: SUPERCRITICAL WS	:			COMPUTED WSA
F-REG	: SUPERCRITICAL WS	:			COMPUTED WSA
F-.6	: WS NOT FOUND BETWEEN	:			COMPUTED WSA
		:	WS = 3125.73 & WS = 3119.00:		
F-.6	: WS NOT FOUND BETWEEN	:			USED DEL = 0.25
		:	WS = 3125.73 & WS = 3119.00:		
F-.6	: WS NOT FOUND	:			USED KE = 0.5
D+.6	: KU/KD < 0.7 OR > 1.4	:			ASSUMED WS = WSC
D+.6	: SUPERCRITICAL WS	:			ALERTED USER
D	: WS NOT FOUND BETWEEN	:			COMPUTED WSA
		:	WS = 3121.80 & WS = 3117.90:		
D	: WS NOT FOUND BETWEEN	:			USED DEL = 0.25
		:	WS = 3121.80 & WS = 3117.90:		
D	: WS NOT FOUND	:			USED KE = 0.5
		:			ASSUMED WS = WSC

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	FG	V	FN	ACC	#TS*	
9	AT	2465	0	2380.	348.	14888.	1.56	0.	146.
3129.90	1.14			3131.04	6.85	0.98		#TS*	
F-APP	AT	2232	-233	2380.	267.	22116.	1.18	171.	343.
3127.70	1.46	*****	*****	3129.16	8.90	1.01	*****	#XS*	
12-FF	AT	2199	-33	2380.	341.	24786.	1.44	170.	360.
3127.78	1.09	*****	*****	3128.87	6.98	1.10	*****	#XS*	
4R-FF	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*	
F-TW	AT	2165	-14	2380.	244.	13713.	1.76	178.	595.
3125.58	2.61	0.38	0.0	3123.19	9.75	2.36	0.003	#XS*	
F-REG	AT	2160	-5	2380.	255.	14168.	1.78	178.	595.
3125.62	2.40	0.15	0.0	3129.03	9.32	2.24	0.017	#XS*	
F-.6	AT	1948	-212	2380.	540.	27299.	1.81	110.	595.
3125.73	0.55	*****	*****	3125.28	4.40	0.92	*****	#XS*	
0+.6	AT	1775	-173	2380.	327.	11617.	1.90	126.	500.
3121.70	1.48	3.09	0.0	3123.18	7.27	1.84	0.006	#XS*	
0	AT	1565	-210	3090.	621.	28554.	1.42	108.	540.
3121.80	0.55	*****	*****	3122.34	4.98	0.87	*****	#XS*	

END OF THIS PROFILE

COMPUTED WSC VALUES FOR: BOONE CREEK 100&500YR PROFILES UP&DOWNST D-6
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-6
PROFILE NUMBER 3, DOWNSTREAM COMPUTATIONS

SECID	D+.6	E-REG	E-TW	BR-EF
WSA	3123.05	3127.96	3128.13	3128.45

500 YR

PAGE 1 OF PROFILE NOTES FOR: ROONE CREEK 100&500YR PROFILES UPSTREAM D-G
PROFILE NUMBER 2. UPSTREAM COMPUTATIONS

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

F-.4 : KU/KD < 0.7 OR > 1.4

ALERTED USER

F-REF: 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 = 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

500-14

USGS STEP-BACKWATER PROGRAM - VERSION 77.140 *** PAGE COUNT= 15, DATE= 7/28/77

WATER-SURFACE PROFILE FOR: ROONE CREEK 100LS00YR PROFILES UPS000MST 0-6
PAGE 1 OF 1, PROFILE NUMBER 2, UPSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HE	HE	EG	V	FM	ACC	#IS*	
0+0	AT	1565	0	4190.	2741.	296234.	1.20	10.	540.
3125.92		0.04			3125.96	1.53	0.14		*IS*
0+6	AT	1775	210	3290.	2451.	247225.	1.21	12.	540.
3125.97		0.03	0.04	0.0	3125.00	1.34	0.13	-0.000	*XS*
0+6	AT	1948	173	3290.	607.	35352.	1.67	106.	595.
3126.07		0.58	0.21	0.43	3125.64	4.72	0.62	-0.003	*XS*
0+56	AT	2160	212	3290.	905.	67196.	1.08	95.	595.
3127.37		0.22	0.94	0.0	3127.55	3.64	0.44	0.003	*XS*
0+56	AT	2160	0	3290.	905.	67196.	1.08	95.	595.
3127.37		0.22	0.01	0.0	3127.59	3.64	0.44	-0.012	*XS*
0+56	AT	2173	14	3290.	474.	27912.	1.31	199.	610.
3127.45		0.98	0.03	0.76	3128.43	6.94	0.63	-0.000	*XS*
0+56	AT	2190	20	3290.	679.	43946.	1.53	166.	600.
3128.77		0.56	*****	*****	3129.33	4.45	0.54	*****	*XS*
0+56	AT	2232	33	3290.	514.	42402.	1.52	160.	601.
3129.20		0.58	*****	*****	3129.98	5.35	0.56	*****	*XS*
0+56	AT	2405	233	3290.	547.	27566.	1.43	0.	191.
3131.35		5.70	2.16	0.91	3132.05	5.61	0.54	0.000	*XS*

USE 3126.12

USE 3127.45

USE 3128.77

USE 3129.20

USE 3131.35

END OF THIS PROFILE

Roone Creek

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 16 DATE= 7/28/77

COMPUTED WSC VALUES FOR: ROONE CREEK 100&500YR PROFILES UP&DOWNST D-6
PROFILE NUMBER 2, UPSTREAM COMPUTATIONS

SECID	AP-EF	F-APP
WSC	3128.77	3129.20

PAGE 1 OF PROFILE NOTES FOR: ROONE CREEK 100&500YR 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 = 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
BP-EF	: KU/KD < 0.7 OR > 1.4	:			ALERTED USER
BP-EF	: SUPERCRITICAL WS	:			COMPUTED WSA
E-TM	: KU/KD < 0.7 OR > 1.4	:			ALERTED USER
E-TM	: SUPERCRITICAL WS	:			COMPUTED WSA
E-.6	: WS NOT FOUND BETWEEN	:			
		:	WS = 3126.16 & WS = 3119.00		USED DEL = 0.25
F-.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: ROONE CREEK 100&500YR PROFILES UP&DOWNST 0-6
 PAGE 1 OF 1. PROFILE NUMBER 4. DOWNSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	IEW	RFW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID	
0	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.	501.
3129.20		0.68	*****	*****	3129.88	5.36	0.89	*****	*XS*
AP-FF	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*
RR-FF	AT	2179	-20	3290.	331.	18243.	1.48	199.	610.
3126.92		2.28	0.38	0.0	3129.21	9.95	1.86	0.011	*XS*
F-TW	AT	2165	-14	3290.	614.	33792.	1.50	177.	595.
3126.64		0.67	0.24	1.61	3127.35	5.36	0.95	0.003	*XS*
F-PEG	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*
F-.6	AT	1948	-212	3290.	740.	39403.	1.57	195.	595.
3126.16		0.48	*****	*****	3125.64	4.44	0.80	*****	*XS*
0+.6	AT	1775	-173	3290.	415.	15748.	1.77	121.	540.
3121.91		1.74	2.98	0.0	3123.65	7.93	1.87	0.006	*XS*
0	AT	1565	-210	4100.	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-6
PROFILE NUMBER 4. DOWNSTREAM COMPUTATIONS

SECTID	D	D+.6	F-.6	E-REG	E-TW	RR-EF	AP-EF	F-APP
WSC	3122.03	3122.44	3126.16	3126.81	3126.81	3127.66	3128.77	3129.20

SECTID G
WSC ~~3130.55~~

COMPUTED WSA VALUES FOR: BOONE CREEK 100&500YR PROFILES UP&DOWNST D-6
PROFILE NUMBER 4. DOWNSTREAM COMPUTATIONS

SECTID	D+.6	F-REG	F-TW	RR-EF	AP-EF
WSA	3123.48	3127.96	3126.95	3129.08	3129.36

CROSS-SECTION PROPERTIES FOR: BOONE CREEK X-SECTION PROPERTIES
 SECID=H-APP AT DISTANCE= 2580 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
3131.5	267	26445	1.02	41	47	64	105	3832
3131.6	271	27017	1.02	41	48	63	105	3908
3131.7	275	27596	1.02	41	48	63	105	3984
3131.8	280	28183	1.02	42	48	63	105	4062
3131.9	284	28670	1.02	42	49	63	105	4128
3132.0	288	29166	1.02	43	49	63	106	4195
3132.1	292	29670	1.02	43	50	63	106	4264
3132.2	297	29952	1.05	60	66	47	107	3679
3132.3	304	30456	1.07	76	83	31	107	3342
3132.4	313	31029	1.09	93	99	15	108	3126
3132.5	322	31691	1.11	97	103	11	108	3168
3132.6	332	32389	1.13	101	108	8	108	3217
3132.7	342	33126	1.15	105	112	4	109	3274
3132.8	353	33899	1.16	109	116	0	109	3337
3132.9	364	34751	1.18	110	117	0	110	3470
3133.0	375	35641	1.18	110	117	0	110	3608
3133.1	386	36566	1.19	111	118	0	111	3751
3133.2	397	37528	1.19	111	118	0	111	3901
3133.3	408	38522	1.20	111	119	0	111	4055
3133.4	419	39552	1.20	112	119	0	112	4215
3133.5	431	40616	1.19	112	120	0	112	4380
3133.6	442	41708	1.19	113	120	0	113	4549
3133.7	453	42835	1.19	113	121	0	113	4723
3133.8	464	43990	1.18	113	121	0	113	4902
3133.9	476	45179	1.18	114	122	0	114	5085
3134.0	487	46397	1.17	114	122	0	114	5273
3134.1	499	47642	1.16	115	123	0	115	5464
3134.2	510	48920	1.16	115	123	0	115	5660
3134.3	522	50223	1.15	116	124	0	116	5859
3134.4	533	51558	1.14	116	125	0	116	6062
3134.5	545	52001	1.13	118	127	0	118	6246
3134.6	557	52536	1.11	121	129	0	121	6434
3134.7	569	53161	1.10	123	132	0	123	6627
3134.8	581	53867	1.09	125	134	0	125	6824
3134.9	594	55584	1.08	125	134	0	125	7060
3135.0	607	57325	1.08	125	134	0	125	7299
3135.1	619	59087	1.07	125	135	0	125	7540
3135.2	631	60878	1.07	125	135	0	125	7784
3135.3	644	62689	1.07	125	135	0	125	8030
3135.4	656	64528	1.06	125	135	0	125	8279
3135.5	669	66390	1.06	125	135	0	125	8531
3135.6	681	68271	1.06	125	136	0	125	8784
3135.7	694	70180	1.05	125	136	0	125	9041
3135.8	706	72106	1.05	125	136	0	125	9299
3135.9	719	74060	1.05	125	136	0	125	9560

CROSS-SECTION PROPERTIES FOR: BOONE CREEK X-SECTION PROPERTIES
 SECID=H-APP AT DISTANCE= 2580 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
3127.0	108	7182	1.00	30	33	68	97	1175
3127.1	111	7464	1.00	30	33	68	97	1219
3127.2	114	7752	1.00	30	33	67	98	1263
3127.3	117	8044	1.00	30	34	67	98	1308
3127.4	120	8342	1.00	31	34	67	98	1354
3127.5	123	8646	1.00	31	34	67	98	1400
3127.6	127	8954	1.00	31	35	67	98	1447
3127.7	130	9268	1.00	31	35	67	98	1495
3127.8	133	9610	1.00	32	35	67	99	1544
3127.9	136	9959	1.00	32	36	67	99	1593
3128.0	139	10313	1.00	32	36	67	99	1643
3128.1	142	10673	1.00	32	36	67	99	1693
3128.2	146	11038	1.00	33	37	67	99	1745
3128.3	149	11409	1.00	33	37	66	99	1796
3128.4	152	11786	1.00	33	37	66	100	1849
3128.5	156	12169	1.00	33	38	66	100	1902
3128.6	159	12557	1.00	34	38	66	100	1956
3128.7	162	12952	1.00	34	38	66	100	2011
3128.8	166	13352	1.00	34	38	66	100	2066
3128.9	169	13758	1.00	34	39	66	100	2122
3129.0	173	14171	1.01	35	39	66	100	2179
3129.1	176	14588	1.01	35	39	66	101	2236
3129.2	180	15012	1.01	35	40	66	101	2294
3129.3	183	15441	1.01	35	40	66	101	2353
3129.4	187	15877	1.01	36	40	65	101	2412
3129.5	190	16319	1.01	36	41	65	101	2472
3129.6	194	16767	1.01	36	41	65	101	2533
3129.7	197	17221	1.01	36	41	65	102	2595
3129.8	201	17680	1.01	37	42	65	102	2657
3129.9	205	18146	1.01	37	42	65	102	2721
3130.0	209	18619	1.01	37	42	65	102	2784
3130.1	212	19096	1.01	37	43	65	102	2849
3130.2	216	19581	1.01	38	43	65	102	2914
3130.3	220	20071	1.01	38	43	65	103	2980
3130.4	224	20568	1.01	38	44	65	103	3047
3130.5	227	21071	1.01	38	44	64	103	3115
3130.6	231	21579	1.01	39	44	64	103	3183
3130.7	235	22095	1.02	39	45	64	103	3252
3130.8	239	22616	1.02	39	45	64	103	3322
3130.9	243	23144	1.02	39	45	64	104	3392
3131.0	247	23679	1.02	40	46	64	104	3464
3131.1	251	24219	1.02	40	46	64	104	3536
3131.2	255	24766	1.02	40	46	64	104	3609
3131.3	259	25318	1.02	40	47	64	104	3682
3131.4	263	25878	1.02	41	47	64	104	3757

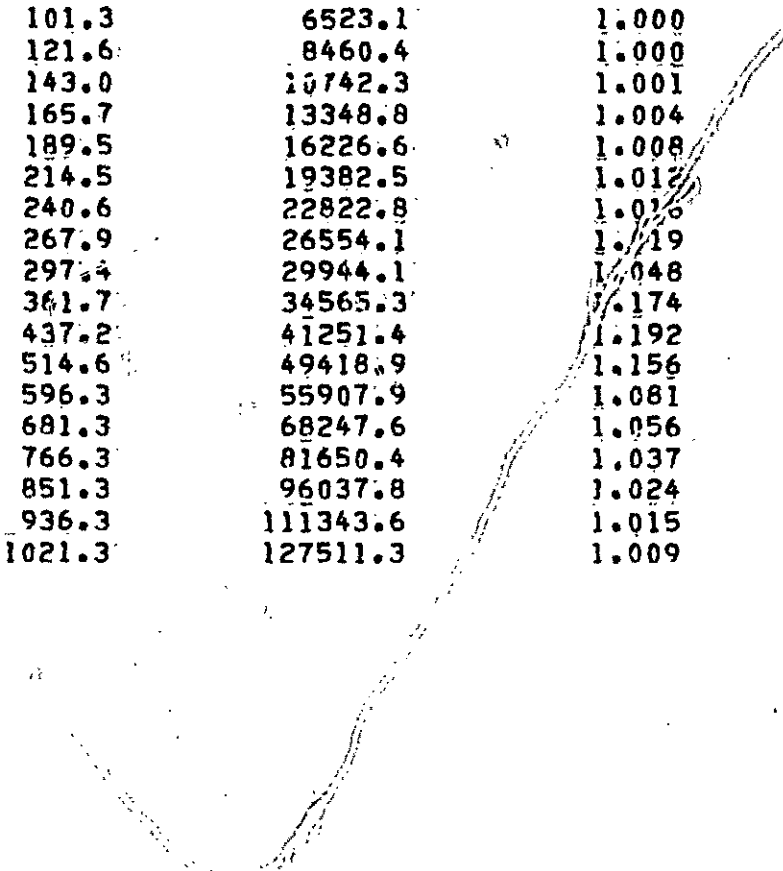
BOONE CREEK

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	3377.51
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	7.14
0.336	1.59	33.5	7.10	10.11
0.672	4.49	149.5	9.99	12.40
1.008	8.23	357.9	12.18	14.24
1.344	12.63	666.5	13.89	15.28
1.680	17.44	1089.2	14.67	16.07
2.016	22.45	1603.6	15.09	16.78
2.352	27.56	2193.2	15.30	19.83
2.688	32.72	2610.9	15.37	20.51
3.024	37.86	3255.9	15.25	21.20
3.360	42.96	3931.2	15.09	21.90
3.696	48.00	4628.7	14.90	22.61
4.032	52.97	5340.8	14.69	23.32
4.368	57.86	6060.3	14.43	24.06
4.704	62.66	6780.2	14.14	24.80
5.040	67.36	7493.7	13.81	25.57
5.376	71.94	8193.8	13.44	26.36
5.712	76.39	8873.5	13.03	27.18
6.048	80.69	9525.5	12.56	28.03
6.384	84.82	10142.4	12.04	28.92
6.720	88.77	10715.8	11.46	29.86
7.056	92.51	11236.8	10.80	30.86
7.392	96.02	11695.1	10.05	31.95
7.728	99.26	12078.1	9.20	33.15
8.064	102.19	12369.9	8.21	34.52
8.400	104.75	12546.9	7.01	

BOONE CREEK

CUL G-H

BASE ELEVATION = 22.30

Z = -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	29.41	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	31.06	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

BOONE CREEK

CUL G-H

BASE ELEVATION = 22.30

Z = -0.20

Q	ELEV H1	ELEV H4	D2	D3	TYPE	C	C ADJUSTED
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

CROSS-SECTION PROPERTIES FOR: BOONE CREEK X-SECTION PROPERTIES I&J
 SECID=I AT DISTANCE= 2702 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	RFW	QC
3134.5	621	64952	1.35	209	217	-20	188	5214
3134.6	642	67007	1.37	216	223	-24	191	5373
3134.7	664	69141	1.38	222	230	-28	193	5541
3134.8	686	71344	1.40	228	236	-32	195	5717
3134.9	710	73628	1.41	235	242	-36	197	5909
3135.0	733	75989	1.42	241	249	-41	199	6096
3135.1	758	78422	1.43	247	255	-45	201	6298
3135.2	783	80941	1.44	253	261	-49	204	6510
3135.3	808	83536	1.45	260	268	-53	206	6729
3135.4	835	86218	1.45	266	274	-57	208	6959
3135.5	862	88985	1.46	272	280	-62	210	7197
3135.6	889	91830	1.46	279	287	-66	212	7448
3135.7	918	94769	1.47	285	293	-70	214	7702
3135.8	947	96618	1.52	306	314	-74	239	7675
3135.9	979	98744	1.56	327	335	-78	254	7692
3136.0	1012	102098	1.56	333	341	-82	254	8009
3136.1	1045	105545	1.56	339	348	-86	254	8324
3136.2	1080	109105	1.56	346	354	-91	254	8658
3136.3	1114	112955	1.56	350	359	-95	254	9046
3136.4	1150	116921	1.55	354	363	-99	254	9447
3136.5	1185	120947	1.54	359	368	-103	255	9847
3136.6	1221	125070	1.53	363	372	-107	255	10258
3136.7	1258	129310	1.52	368	377	-111	256	10682
3136.8	1295	133648	1.52	373	382	-116	256	11115
3136.9	1332	138105	1.51	378	387	-120	257	11562
3137.0	1371	142670	1.50	382	391	-124	257	12019
3137.1	1409	147334	1.49	387	396	-128	258	12487
3137.2	1448	152120	1.48	392	401	-132	258	12967
3137.3	1487	157003	1.47	397	405	-136	259	13457
3137.4	1527	162010	1.47	401	410	-141	260	13960
3137.5	1568	167128	1.46	406	415	-145	260	14474
3137.6	1608	172346	1.45	411	420	-149	261	14998
3137.7	1650	177689	1.44	415	424	-153	261	15538
3137.8	1691	183132	1.43	420	429	-157	262	16082
3137.9	1734	188702	1.42	425	434	-161	262	16641
3138.0	1777	194387	1.42	430	439	-166	263	17212
3138.1	1820	200172	1.41	434	443	-170	264	17793
3138.2	1863	206087	1.40	439	448	-174	264	18386
3138.3	1907	212104	1.40	444	453	-178	265	18990
3138.4	1952	218252	1.39	449	458	-182	265	19606
3138.5	1997	224518	1.38	453	462	-187	266	20239
3138.6	2043	230886	1.37	458	467	-191	266	20871
3138.7	2089	237388	1.37	463	472	-195	267	21521
3138.8	2135	243993	1.36	467	477	-199	267	22181
3138.9	2182	250738	1.36	472	481	-203	268	22855

CROSS-SECTION PROPERTIES FOR: BOONE CREEK X-SECTION PROPERTIES
 SECID=I AT DISTANCE= 2702 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	RFW	QC
3130.0	236	22915	1.00	42	47	22	65	3166
3130.1	240	23494	1.00	42	47	22	65	3242
3130.2	244	24081	1.00	43	48	22	65	3318
3130.3	249	24675	1.00	43	48	22	65	3395
3130.4	253	25277	1.00	43	48	22	65	3474
3130.5	257	25886	1.00	43	49	22	65	3553
3130.6	262	26501	1.00	44	49	22	65	3632
3130.7	266	27125	1.00	44	49	22	65	3713
3130.8	270	27755	1.00	44	50	21	66	3795
3130.9	275	28394	1.00	44	50	21	66	3877
3131.0	279	29040	1.00	45	50	21	66	3960
3131.1	284	29691	1.00	45	51	21	66	4044
3131.2	288	30352	1.00	45	51	21	66	4130
3131.3	293	31019	1.00	45	51	21	66	4215
3131.4	297	31694	1.00	46	52	21	66	4302
3131.5	302	32378	1.00	46	52	21	67	4390
3131.6	307	33067	1.00	46	52	20	67	4478
3131.7	311	33765	1.00	47	53	20	67	4567
3131.8	316	34469	1.00	47	53	20	67	4658
3131.9	321	35182	1.00	47	53	20	67	4749
3132.0	325	35903	1.00	47	53	20	67	4841
3132.1	330	36567	1.00	48	54	20	67	4925
3132.2	335	37242	1.00	48	54	19	68	5011
3132.3	340	37925	1.00	49	55	19	68	5098
3132.4	345	38618	1.00	49	55	19	68	5186
3132.5	350	39321	1.00	49	56	19	68	5275
3132.6	355	40113	1.00	53	59	18	71	5209
3132.7	360	40918	1.00	56	63	18	74	5156
3132.8	366	41736	1.01	60	66	18	78	5116
3132.9	372	42572	1.01	63	70	18	81	5088
3133.0	381	43432	1.03	91	98	17	149	4348
3133.1	390	44343	1.05	100	107	17	154	4267
3133.2	401	45298	1.07	109	116	17	160	4212
3133.3	412	46295	1.09	118	125	16	165	4179
3133.4	425	47341	1.11	128	135	16	171	4165
3133.5	439	48352	1.15	161	168	16	176	3839
3133.6	455	49575	1.18	166	174	16	182	3930
3133.7	472	50900	1.21	167	174	15	182	4099
3133.8	489	52290	1.23	167	174	15	182	4276
3133.9	506	53913	1.25	175	182	8	182	4369
3134.0	524	55605	1.27	182	190	0	182	4472
3134.1	542	57365	1.29	186	194	-3	182	4624
3134.2	561	59199	1.30	190	198	-7	182	4784
3134.3	580	61044	1.32	197	204	-11	184	4919
3134.4	600	62963	1.34	203	211	-16	186	5062

BOONE 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-I

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	47.46

ROONE CREEK

CUL H-I

BASE ELEVATION = 23.20

Z = 0.10

O	ELEV H1	ELEV H4	O2	O3	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	0.98	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

CUL H-I

BASE ELEVATION = 23.20

Z = 0.10

Q	ELEV H1	ELEV H4	D2	D3	TYPE	C	C ADJUSTED
2060.0	36.71	*****	*****	*****	5	0.53	0.53
2060.0	34.88	*****	*****	*****	6	0.86	0.86
2060.0	38.32	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

CROSS-SECTION PROPERTIES FOR: BOONE CREEK X-SECTION PROPERTIES I&J
 SECID=J AT DISTANCE= 2887 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
3136.5	1123	122158	1.10	335	354	-26	308	11096
3136.6	1156	127523	1.10	337	356	-28	308	11603
3136.7	1200	133023	1.09	339	359	-30	308	12118
3136.8	1221	138629	1.08	341	361	-32	308	12639
3136.9	1259	144369	1.09	343	363	-34	308	13169
3137.0	1293	150228	1.07	346	365	-37	308	13705
3137.1	1328	156193	1.07	348	367	-39	308	14246
3137.2	1363	162292	1.06	350	370	-41	308	14796
3137.3	1398	168494	1.06	352	372	-43	308	15351
3137.4	1433	174830	1.06	354	374	-45	308	15914
3137.5	1468	181286	1.05	356	376	-47	308	16484
3137.6	1504	187844	1.05	358	378	-49	308	17059
3137.7	1540	194536	1.05	360	380	-51	308	17642
3137.8	1576	201330	1.05	362	383	-53	308	18231
3137.9	1612	208259	1.04	364	385	-55	308	18828
3138.0	1649	215306	1.04	366	387	-57	308	19431
3138.1	1686	222454	1.04	368	389	-59	308	20040
3138.2	1723	229737	1.04	370	391	-61	308	20657
3138.3	1760	237120	1.04	373	394	-64	308	21279
3138.4	1797	244640	1.04	375	396	-66	308	21909
3138.5	1835	252277	1.04	377	398	-68	308	22547
3138.6	1872	260014	1.04	379	400	-70	308	23189
3138.7	1910	267887	1.04	381	402	-72	308	23840
3138.8	1949	275859	1.04	383	405	-74	308	24496
3138.9	1987	283969	1.04	385	407	-76	308	25161
3139.0	2026	292196	1.04	387	409	-78	308	25833
3139.1	2064	300579	1.03	389	411	-80	308	26509
3139.2	2104	309103	1.03	391	413	-82	308	27193
3139.3	2143	317727	1.03	393	415	-84	308	27883
3139.4	2182	326495	1.03	395	417	-86	308	28581
3139.5	2222	335384	1.03	398	419	-89	308	29286
3139.6	2262	344374	1.03	400	421	-91	308	29996
3139.7	2302	353507	1.04	402	423	-93	308	30715
3139.8	2342	362740	1.04	404	426	-95	308	31439
3139.9	2383	372118	1.04	406	428	-97	308	32171
3140.0	2423	381628	1.04	408	430	-99	308	32911

CROSS-SECTION PROPERTIES FOR: BOONE CREEK X-SECTION PROPERTIES IKJ
 SECID=J AT DISTANCE= 2887 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
3132.0	140	16140	1.00	21	36	109	130	2230
3132.1	150	16462	1.00	21	36	109	130	2278
3132.2	152	16786	1.00	21	37	109	130	2326
3132.3	154	17111	1.00	21	37	109	130	2374
3132.4	156	17437	1.00	21	37	109	130	2422
3132.5	159	17766	1.00	21	37	109	130	2471
3132.6	161	18094	1.00	21	37	109	130	2521
3132.7	163	18424	1.00	21	38	109	130	2570
3132.8	165	18755	1.00	21	38	109	130	2620
3132.9	173	19146	1.06	88	105	109	212	1333
3133.0	183	19620	1.13	105	122	109	224	1284
3133.1	193	20188	1.20	112	129	109	226	1317
3133.2	207	20847	1.28	152	169	47	228	1210
3133.3	224	21687	1.37	187	204	43	230	1186
3133.4	243	22730	1.46	192	210	40	232	1281
3133.5	262	23908	1.52	197	215	37	234	1390
3133.6	282	25210	1.56	203	220	33	236	1510
3133.7	303	26442	1.62	220	238	30	250	1584
3133.8	326	28013	1.64	226	244	26	253	1729
3133.9	348	29714	1.64	232	250	23	255	1888
3134.0	372	31540	1.64	238	256	20	258	2060
3134.1	396	33484	1.62	244	262	16	261	2249
3134.2	421	35559	1.61	250	268	13	263	2444
3134.3	446	37799	1.58	254	272	12	266	2670
3134.4	472	40166	1.54	258	276	10	268	2910
3134.5	498	42655	1.51	262	280	9	271	3164
3134.6	525	44318	1.55	286	303	8	304	3245
3134.7	554	47013	1.52	292	310	7	304	3508
3134.8	584	49843	1.49	299	317	5	304	3786
3134.9	614	53103	1.45	301	319	4	305	4134
3135.0	644	56500	1.40	302	320	3	305	4496
3135.1	674	59935	1.37	305	323	1	306	4855
3135.2	705	63508	1.34	308	326	0	308	5228
3135.3	736	67256	1.31	310	328	-1	308	5622
3135.4	767	71143	1.28	312	330	-3	308	6027
3135.5	798	75159	1.25	314	332	-5	308	6444
3135.6	830	79292	1.23	316	335	-7	308	6870
3135.7	861	83562	1.21	318	337	-9	308	7306
3135.8	893	87947	1.19	320	339	-11	308	7750
3135.9	926	92468	1.17	323	341	-14	308	8205
3136.0	958	97113	1.16	325	343	-16	308	8667
3136.1	990	101870	1.15	327	345	-18	308	9137
3136.2	1023	106762	1.13	329	348	-20	308	9616
3136.3	1056	111764	1.12	331	350	-22	308	10101
3136.4	1089	116900	1.11	333	352	-24	308	10595

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	HSUR0	IS LESS THAN	GMIN	> GMIN
L	WARNING	HSUR0	IS LESS THAN	GMIN	> GMIN
N-APP	WARNING	HSUR0	IS LESS THAN	GMIN	> GMIN

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 3. DATE= 8/18/77

INPUT SUMMARY FOR: ROONE CREEK OVER-LAND FLOOD PROFILES (J-1)

5 CROSS SECTIONS SPECIFIED (OR ASSUMED)

FOUND 5 TYPE 3 CARDS

KEPT 5 CROSS SECTIONS FOR EDITING

5 " " VALID FOR PROPERTY COMPUTATIONS

5 " " " " PROFILE " "



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USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 4. DATE= 8/18/77

CROSS-SECTION PROPERTIES FOR: ROONE CREEK OVER-LAND FLOOD PROFILES PART 1 OF 1 J-N
 SECID=J-TW AT DISTANCE= 2887

WS	A	K	ALPHA	B	P	LEW	RFW	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	308	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	220300	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: ROONE CREEK OVER-LAND FLOOD PROFILES PART 1 OF 1 J-N
 SECID=K AT DISTANCE= 3086

WS	A	K	ALPHA	B	P	LEW	RFW	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	28	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

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CROSS-SECTION PROPERTIES FOR: ROONE CREEK OVER-LAND FLOOD PROFILES PART 1 OF 1 J-N
 SECID=L AT DISTANCE= 3216

WS	A	K	ALPHA	B	P	LFM	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	1431
3137.5	370	22191	1.00	218	221	-49	168	2738
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: ROONE CREEK OVER-LAND FLOOD PROFILES PART 1 OF 2 J-N
 SECID=M AT DISTANCE= 3276

WS	A	K	ALPHA	B	P	LFM	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 U-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: BOONE CREEK OVER-LAND FLOOD PROFILES J-N
 PAGE 1 OF 1, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

10yr

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	860.	589.	44713.	1.00	-4.	308.
3135.39		0.03			3135.42	1.46	0.19		*IS*
K	AT	3086	199	860.	243.	9234.	1.00	40.	327.
3135.67		0.19	0.36	0.08	3135.86	3.53	0.68	0.003	*XS*
L	AT	3216	130	860.	216.	9123.	1.00	-50.	165.
3136.79		0.25	1.14	0.03	3137.03	3.99	0.70	0.003	*XS*
M	AT	3276	60	900.	195.	10692.	1.00	0.	219.
3137.23		0.33	0.48	0.04	3137.56	4.61	0.65	0.002	*XS*
N-4PP	AT	3638	362	900.	229.	12290.	1.00	57.	264.
3139.55		0.24	2.23	0.0	3139.79	3.94	0.57	0.004	*XS*

Flow increase in upstream direction due to a small culvert between L & JTW. Flow overland is actually less between J & L.

END OF THIS PROFILE

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

SECTION-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

WATER-SURFACE PROFILE FOR: BOONE CREEK OVER-LAND FLOOD PROFILES J-N
 PAGE 1 OF 1. PROFILE NUMBER 2. UPSTREAM COMPUTATIONS

10 yr

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	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 77.180 *** 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

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

10yr

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	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

39.55
 -68
 -75
 81
 4/2.79
 .74

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

SECTION N-APP
WSC 3139.15

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** 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: ROONE 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 U-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 YEAR]

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

```
=====
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 / 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.
3139.55 / 0.27 / 2.30 / 0.0 / 3140.20 / 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 U-N
PROFILE NUMBER 6, 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 6 UPSTREAM COMPUTATIONS

50 yr

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LFW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	*TD*	
J-TW	AT	2887	0	1560.	777.	68994.	1.00	-16.	308.
3135.98	0.06			3136.04	2.01	0.23		*IS*	
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	3137.58	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

WATER-SURFACE PROFILE FOR: BOONE CREEK OVER-LAND FLOOD PROFILES J-N
 PAGE 1 OF 1. PROFILE NUMBER 7. UPSTREAM COMPUTATIONS

50-42

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	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	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	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	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

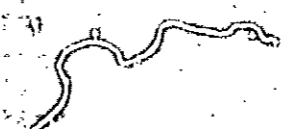
SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

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

5042

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 year]

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	0.25		*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.
3140.51		0.31	2.42	0.0	3140.92	4.44	0.53	0.006	*XS*

+140 cul = 1940 OK

END OF THIS PROFILE

PAGE 1 OF PROFILE NOTES FOR: BOONE 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

50 JN

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

SECID	AT	DISTANCE / WS ELEV	LENGTH / HV	DISCHARGE / HF	AREA / HE	CONVEYANCE / EG	ALPHA / V	FEW / FN	REW / ACC	ID*
J-TW	AT	2887 / 3135.98	0 / 0.09	1860. /	777. / 3136.07	68994. / 2.39	1.00 / 0.27	-16. /	308. /	*IS*
K	AT	3096 / 3136.31	199 / 0.29	1860. / 0.43	433. / 3136.60	23316. / 4.30	1.00 / 0.63	31. / 0.003	333. /	*XS*
L	AT	3216 / 3137.29	130 / 0.51	1860. / 1.08	324. / 3137.80	17808. / 5.75	1.00 / 0.83	-50. / 0.005	167. /	*XS*
M	AT	3276 / 3137.82	60 / 0.77	1900. / 0.66	270. / 3138.59	18122. / 7.02	1.00 / 0.85	0. / 0.000	221. /	*XS*
N-APP	AT	3638 / 3140.72	362 / 0.31	1900. / 2.43	425. / 3141.03	29619. / 4.47	1.00 / 0.53	29. / 0.007	273. /	*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

100

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	*TD*	
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	3635	362	1900.	425.	29597.	1.00	29.	273.
3140.71	0.91	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

//

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

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

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	IEW	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 100yr]

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 / WS ELEV	LENGTH / HV	DISCHARGE / HF	AREA / HE	CONVEYANCE / EG	ALPHA / V	LFW / FN	REW / ACC	REMARKS / *ID*
J-TW	AT	2887 / 3136.20	0 / 0.09	2060. /	849. / 3136.29	79168. / 2.43	1.00 / 0.27	-21. /	308. /	*IS*
K	AT	3086 / 3136.49	199 / 0.28	2060. / 0.38	486. / 3136.77	28061. / 4.24	1.00 / 0.59	28. / 0.001	334. /	*XS*
L	AT	3216 / 3137.37	130 / 0.57	2060. / 1.01	341. / 3137.93	19385. / 6.05	1.00 / 0.85	-50. / 0.009	167. /	*XS*
M	AT	3276 / 3137.91	60 / 0.86	2100. / 0.69	282. / 3138.77	19407. / 7.44	1.00 / 0.88	0. / 0.000	221. /	*XS*
N-APP	AT	3638 / 3140.97	362 / 0.32	2100. / 2.47	464. / 3141.24	33356. / 4.52	1.00 / 0.52	23. / 0.001	276. /	*XS*

END OF THIS PROFILE

OK
2100+142=2242 ACCD 2220

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

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	6.16	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-N
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; KII/KD < 0.7 OR > 1.4

ALERTED USER

WATER-SURFACE PROFILE FOR: BOONE CREEK OVER-LAND FLOOD PROFILES ^{500 ft} J-N
 PAGE 1 OF 1, PROFILE NUMBER 16, UPSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS. FLEV	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	2.4	0.27		*IS*
K	AT	3086	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

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		2.33	2.53	0.0	3141.93	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 18, 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/ LFW / 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	:		
L	:	KU/KD < 0.7 OR > 1.4	:		ALERTED USER
M	:	FRDN FAILURE	:		ALERTED USER
M	:	WS NOT FOUND BETWEEN	:	WS = 3138.24 & FR = 1.00	USED HIGHER WS
M	:	FRDN FAILURE	:	WS = 3137.45 & WS = 3145.00	USED DEL = 0.25
M	:	WS NOT FOUND BETWEEN	:	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

USE THIS PROFILE 500 yr

WATER-SURFACE PROFILE FOR: BOONE CREEK OVER-LAND FLOOD PROFILES J-N
 PAGE 1 OF 1. PROFILE NUMBER 19. UPSTREAM COMPUTATIONS

SECTION	AT	DISTANCE	LENGTH/DI	CHARGE	AREA	CONVEYANCE	ALPHA	IFW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	*T0*	
J-TW	AT	2887	0	2860.	1006.	102890.	1.00	-31.	308.
3136.67		0.13			3136.90	2.84	0.29	*IS*	
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	*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	*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	*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	*XS*	

*+147 = 3045 need 3070
 LWB OK*

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 49. DATE= 8/18/77

COMPUTED WSC VALUES FOR: BOONE CREEK OVER-LAND FLOOD PROFILES LAE J-N
PROFILE NUMBER 19, UPSTREAM COMPUTATIONS

SECTION M
WSC 3138.24

PAGE 11 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	: ALERTEO USER
L	: KU/KD < 0.7 OR > 1.4	: ALERTEO USER
M	: FRDN FAILURE	: WS = 3138.29 & 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	: ALERTEO USER

COMPUTED WSC VALUES FOR: BOONE CREEK, OVER-LAND FLOOD PROFILES J-N
PROFILE NUMBER 20, UPSTREAM COMPUTATIONS

SECID M14007
WSC 3138.30

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

12

*** INPUT CARD PRINTOUT ***

.....5.....0.....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	1	ROONE CREEK	FLOOD PROFILES				N-0	2 4 02 05 10
2	2	313988	314050	314090	314171			
3	100	N	1 26 3	3133	3638	99 99		
4	101	1210	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	250	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	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				

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

WS	A	K	ALPHA	R	P	LFW	RFW	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

WS	A	K	ALPHA	R	P	LFW	RFW	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
 SECTID=0 AT DISTANCE= 4285

FLOOD PROFILES
 N=0
 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	RFW	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	96611	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

10 YR

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	IFW	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		*IS*
0	AT 4285	/ 647	/ 1210.	/ 195.	/ 9254.	/ 1.18	/ 80.	/ 198.	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

50 YR

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	LFW	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 : KU/KD < 0.7 OR > 1.4

ALERTED USER

100 YR

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*	
0	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

500 YR

WATER-SURFACE PROFILE FOR: ROONE 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*
-----
O 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