

M I I D D D L L E

F O R R K

C R E E K

\*\*\* INPUT CARD PRINTOUT \*\*\*

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.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0
1      1 MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY A-D      5  4 02 05 15
2      2 346914 346971 347090 347000
3      4 A      1 19 3 3468      0 99 99
4      5      430      845      1700      1050
5      7      -50      1 34820      -30      1 34780      0      1 34781      4      1 34766      28      1 34731
5      8      43      1 34708      51      2 34680      74      2 34678      82      2 34674      88      2 34663
5      9      93      3 34680      111      3 34685      126      3 34679      144      3 34681      150      3 34689
5     10      160      3 34723      173      3 34731      185      3 34740      192      3 34795
6     11      1 2 100 100 1 2 065 065 1 2 065 065
3    100 P      0      17      3 3472      165 99 99
5    101      -40      1 34840      -30      1 34823      0      1 34823      11      1 34805      19      1 34777
5    102      32      1 34751      42      1 34722      51      1 34717      77      1 34726      100      2 34728
5    103      102      2 34702      108      2 34695      124      2 34699      130      3 34755      142      3 34786
5    104      146      3 34822      160      3 34870
6    105      1 2 080 080 1 2 050 050 1 2 080 080
3    199 C      0      22      4 3475      368 99 99
5    201      -15      1 34829      0      1 34791      8      1 34765      10      1 34763      15      2 34759
5    202      20      2 34758      25      2 34760      33      3 34761      36      3 34745      39      3 34732
5    203      44      3 34731      47      3 34727      50      3 34725      52      3 34731      55      4 34752
5    204      60      4 34753      60      4 34812      61      4 34812      61      4 34775      66      4 34776
5    205      70      4 34808      73      4 34729
6    206      1 2 100 100 1 2 050 050 2 3 050 045 1 2 065 065
3    250 DUMMY 0      11      3 3474      470 99 99
5    251      0      1 34871      7      1 34810      27      1 34767      38      2 34739      45      2 34735
5    252      61      3 34745      72      3 34771      80      3 34780      85      3 34783      96      3 34835
5    253      110      3 34841
6    254      1 2 100 100 1 2 065 065 1 2 100 100
3    300 D      0      11      3 3476      598 99 99
5    301      0      1 34880      7      1 34819      27      1 34776      38      2 34748      45      2 34744
5    302      61      3 34754      72      3 34780      80      3 34789      85      3 34792      96      3 34844
5    303      110      3 34850
6    304      1 2 100 100 1 2 065 065 1 2 100 100

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\*\*\* INPUT CARD PRINTOUT \*\*\*

	1	2	3	4	5	6	7	8	
.....	5.....	0.....	5.....	0.....	5.....	0.....	5.....	0.....	5.....
1	1	MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY	C-D	3	4	02	05	15	
2	2	347609 347713 347855 347749							
3	199	C 1 22 4 3475	368 99 99						
4	200	430 845 1700 1050							
5	201	-15 1 34829 0 1 34791	8 1 34765	10 1 34763	15 2 34759				
5	202	20 2 34758 25 2 34760	33 3 34761	36 3 34745	39 3 34732				
5	203	44 3 34731 47 3 34727	50 3 34725	52 3 34731	55 4 34752				
5	204	60 4 34753 60 4 34812	61 4 34812	61 4 34775	66 4 34776				
5	205	70 4 34808 73 4 34729							
6	206	1 2 100 100 1 2 050 050 2	3 050 045 1 2 065 065						
3	250	DUMMY 0 11 3 3474	470 99 99						
5	251	0 1 34871 7 1 34810	27 1 34767	38 2 34739	45 2 34735				
5	252	61 3 34745 72 3 34771	80 3 34780	85 3 34783	96 3 34835				
5	253	110 3 34841							
6	254	1 2 100 100 1 2 065 065 1 2 100 100							
3	300	0 11 3 3476	598 99 99						
5	301	0 1 34880 7 1 34819	27 1 34776	38 2 34748	45 2 34744				
5	302	61 3 34754 72 3 34780	80 3 34789	85 3 34792	96 3 34844				
5	303	110 3 34850							
6	304	1 2 100 100 1 2 065 065 1 2 100 100							

\*\*\* INPUT CARD PRINTOUT \*\*\*

	1	2	3	4	5	6	7	8
.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0								
1	1	MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY	E-CUL	2	3	5	02	05 15
2	2	347913	348135	348500	348231	348231		
3	500	F APP 1	18	4	3475	676	2	4
4	501	430	845	1700	1050	1050		
5	505	0	1	34850	57	1	34833	51 1 34831 64 1 34812 74 1 34798
5	506	86	1	34783	94	1	34777	105 1 34769 117 1 34764 134 2 34764
5	507	135	3	34762	137	3	34750	146 3 34746 152 3 34747 152 4 34767
5	508	182	4	34771	217	4	34796	230 4 34850
6	515	1	2	075 075	1	2	075 075	1 2 045 040 1 2 060 060
3	500	F	0	16	3	3478	1260	99 99
5	605	0	1	34879	10	1	34857	22 1 34833 58 1 34818 89 1 34818
5	606	120	1	34805	127	2	34803	133 2 34775 144 2 34766 148 2 34773
5	607	150	2	34782	158	3	34814	211 3 34818 250 3 34834 273 3 34848
5	608	283	3	34883				
6	620	1	2	050 050	1	2	040 040	1 2 060 060
3	625	CUL	2	0	9	3	3480	1290 99 99
5	627	0	1	34892	88	1	34838	142 2 34834 142 2 34779 148 3 34779
5	628	148	3	34834	200	3	34837	323 3 34869 365 3 34894
6	630	1	2	045 045	1	2	035 035	1 2 045 045

\*\*\* INPUT CARD PRINTOUT \*\*\*

.....S.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0

7 10000  
8 10001

0 0 0 0 1  
0

MM  
DD

MM  
DD



2

\*\*\* INPUT CARD PRINTOUT \*\*\*

	1	2	3	4	5	6	7	8
.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0								
1	1	MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY	CUL 2-J	5	5	02	05	15
2	2	348436 348484 348543 348500 348501						
3	625	CUL 2 1	9 3 3480	1290	99	99		
4	626	430	845 1700	1050	1050			
5	627	0	1 34892 88	1 34838	142	2 34834	142	2 34779 148 3 34779
5	628	148	3 34834	200	3 34837	323	3 34869	365 3 34894
6	630	1 2 045 045	1 2 035 035	1 2 045 045				
3	700	G	0 18 3 3480	1328	99	99		
5	705	0	1 34889	10	1 34854	21	1 34819	38 2 34794 38 2 34785
5	706	41	2 34781	47	2 34786	56	3 34827	80 3 34843 99 3 34838
5	707	102	3 34824	125	3 34827	150	3 34832	185 3 34828 227 3 34847
5	708	257	3 34857	293	3 34869	339	3 34895	
6	720	1 2 045 045	1 2 040 040	1 2 040 040				
3	800	H	0 17 3 3480	1433	99	99		
5	805	-5	1 34868	6	1 34850	8	1 34840	30 1 34824 50 1 34817
5	806	54	2 34808	57	2 34784	62	2 34778	67 2 34784 71 3 34817
5	807	80	3 34821	100	3 34829	125	3 34831	200 3 34842 250 3 34851
5	808	280	3 34868	300	3 34878			
6	809	1 2 045 045	1 2 035 035	1 2 065 065				
3	900	I	0 22 4 3482	1798	99	99		
5	904	-165	1 34900	-156	1 34873	-95	1 34871	-60 1 34865 -30 1 34859
5	905	-10	1 34878	0	2 34880	10	2 34869	20 2 34860 28 3 34855
5	906	34	3 34841	37	3 34830	40	3 34815	48 3 34812 57 3 34816
5	907	64	4 34854	70	4 34857	85	4 34854	100 4 34851 125 4 34857
5	908	150	4 34861	160	4 34905			
6	920	1 2 035 035	1 2 065 065	1 2 040 040	1 2 080 080			
3	1000	J	0 28 2 3483	1895	99	99		
5	1005	0	1 34963	13	1 34949	17	1 34926	21 1 34882 50 1 34882
5	1006	70	1 34879	100	1 34870	119	1 34867	142 1 34896 150 1 34900
5	1007	157	1 34884	175	1 34872	191	1 34865	200 1 34850 205 2 34850
5	1008	207	2 34840	209	2 34824	212	2 34820	222 2 34819 224 2 34828
5	1009	226	2 34838	227	2 34851	231	2 34870	234 2 34887 238 2 34909
5	1010	241	2 34935	244	2 34939	250	2 34943	
6	1020	1 2 040 040	2 4 045 040					



\*\*\* INPUT CARD PRINTOUT \*\*\*

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

7 10000  
8 10001

0 0 0 0 1  
0

\*\*\* 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 10000  
8 10001

1  
1

\*\*\* INPUT CARD PRINTOUT \*\*\*

	1	2	3	4	5	6	7	8
.....5.....	.....5.....	.....0.....	.....5.....	.....0.....	.....5.....	.....0.....	.....5.....	.....0.....
9 10005	700 VHD 100	38	56 348568	G				
9 10006	800 VHD 100	54	71 348572	H				
9 10007	900 VHD 100	28	64 348622	I				
9 10008	1000 VHD 100	205	241 348691	J				
9 10100	END			100 YR FLOOD	G-J			

\*\*\* INPUT CARD PRINTOUT \*\*\*

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

1 1 MIDDLE FORK CREEK BLOWING ROCK X-SECTION PROP J-K 1 0 02 01 15  
3 #105 RD GH 9 11 1 3494 99 99

EXPECTED #2  
CARD

M  
5 1110 100 1 34971 150 1 34960 200 1 34952 250 1 34947 300 1 34943  
5 1111 350 1 34943 390 1 34947 400 1 34947 450 1 34952 500 1 34961  
5 1112 550 1 34971  
6 1115 1 2 030 030

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

USGS STEP-BACKWATER PROGRAM - VERSION 76.170 \*\*\* PAGE COUNT= 2, DATE= 2/14/77

PAGE 1 OF EDITING NOTES FOR: MIDDLE FORK CREEK BLOWING ROCK X-SECTION PROP J-K

SECID	ERROR SEVERITY	FIRST VARIABLE	NO.	ERROR MESSAGE	SECOND VARIABLE	NO.	VALUE ASSUMED
RD GH	WARNING	NPR		INVALID			20
	WARNING	HSUBO		IS LESS THAN	GMIN		> GMIN

\*\*\* INPUT CARD PRINTOUT \*\*\*

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.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0
1 1 MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY K-CUL T 3 5 02 05 15
2 2 348644 348894 349450 349007 349007
3 5 K 1 24 3 3484 1996 99 99
4 6 345 710 1450 890 890
5 8 -40 1 34950 0 1 34937 22 1 34932 50 1 34925 75 1 34916
5 9 83 2 34912 89 2 34898 92 2 34882 95 2 34866 98 2 34852
5 10 101 2 34829 104 2 34826 109 2 34827 115 2 34823 117 2 34851
5 11 121 2 34856 124 2 34874 129 2 34886 137 3 34896 150 3 34900
5 12 184 3 34901 210 3 34912 211 3 34961 233 3 34957
6 15 1 2 055 055 1 2 045 045 1 2 050 050
3 20 L 0 29 2 3488 2530 99 99
5 25 0 1 35001 14 1 34988 26 1 34973 33 1 34943 37 1 34930
5 26 42 1 34897 46 1 34892 47 1 34884 52 1 34857 58 1 34849
5 27 62 1 34880 65 1 34885 67 1 34909 77 1 34918 83 2 34923
5 28 100 2 34925 130 2 34925 160 2 34925 190 2 34922 220 2 34922
5 29 250 2 34922 257 2 34923 280 2 34925 300 2 34928 323 2 34940
5 30 325 2 34949 332 2 34975 340 2 35000 349 2 35005
6 31 1 2 045 045 1 2 035 035
3 40 CUL T 0 9 3 3490 2535 99 99
5 45 0 1 35015 74 2 34958 74 2 34871 76 2 34871 76 3 34958
5 46 175 3 34931 237 3 34930 296 3 34968 350 3 35015
6 47 1 2 040 040 1 2 015 015 1 2 040 040

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USGS STEP-BACKWATER PROGRAM - VERSION 76.170 \*\*\* PAGE COUNT= 2 DATE= 2/14/77

PAGE 1 OF EDITING NOTES FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY K-CUL T

SECID	ERROR SEVERITY	FIRST VARIABLE	NO.	ERROR MESSAGE	SECOND VARIABLE	NO.	VALUE ASSUMED
CUL T	WARNING	N1	2	LOW			
CUL T	WARNING	N3	2	LOW			





\*\*\* INPUT CARD PRINTOUT \*\*\*

	1	2	3	4	5	6	7	8
.....5.....	0.....5.....	0.....5.....	0.....5.....	0.....5.....	0.....5.....	0.....5.....	0.....5.....	0.....5.....
9	60	5 VHD 100	83 137	K				
9	61	20 VHD 100	28 83	L				
9	62	40 VHD 000	74 262	CUL T				
9	63	END		100 YR FLOOD K-CUL T				

\*\*\* 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	MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY CUL A-0 4 5 02 05 15						
2	2	349402	349443	349501	349460	349460		
3	50	CUL A 1	9 3	3491	2633	99 99		
4	51	345	710	1450	890	890		
5	55	0	1	35015	74	2 34958	74	2 34886 76 2 34886 76 3 34958
5	56	175	3	34931	237	3 34930	296	3 34968 350 3 35015
6	57	1	2	040 040	1 2	015 015	1 2	040 040
3	60	M	0	29	1	3492	2653	99 99
5	62	0	1	35017	20	1 35014	40	1 35006 60 1 34996 64 1 34977
5	63	68	1	34959	70	1 34940	73	1 34925 75 1 34909 78 1 34894
5	64	82	1	34890	88	1 34894	92	1 34908 96 1 34924 98 1 34929
5	65	101	1	34939	125	1 34937	150	1 34934 175 1 34932 219 1 34935
5	66	237	1	34932	250	1 34929	294	1 34932 305 1 34942 321 1 34950
5	67	331	1	34972	338	1 34991	341	1 35004 345 1 35011
6	69	1	2	055 055				
3	70	N	0	20	1	3492	2838	99 99
5	72	0	1	35030	20	1 35003	30	1 34991 36 1 34977 45 1 34967
5	73	55	1	34968	75	1 34963	100	1 34963 116 1 34960 120 1 34936
5	74	124	1	34912	127	1 34908	131	1 34911 135 1 34913 145 1 34935
5	75	170	1	34939	200	1 34941	250	1 34950 270 1 34966 315 1 35030
6	77	1	2	045 045				
3	90	0	1	25	3	3495	3055	99 99
4	91	300	625	1310	790	790		
5	92	0	1	35038	20	1 35035	40	1 35033 60 1 35030 80 2 35024
5	93	100	2	35005	116	2 34989	126	2 34964 134 2 34948 136 2 34938
5	94	138	2	34933	140	2 34930	143	2 34934 144 2 34941 150 2 34949
5	95	158	2	34960	163	2 34980	165	2 34993 168 2 35003 170 3 35010
5	96	174	3	35010	195	3 35004	197	3 35005 250 3 35033 275 3 35040
6	97	1	2	065 065	1 2	045 045	1 2	035 035

USGS STEP-BACKWATER PROGRAM - VERSION 76.170 \*\*\* PAGE COUNT= 2, DATE= 2/14/77

PAGE 1 OF EDITING NOTES FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY CUL A-0

SECID	ERROR SEVERITY	FIRST VARIABLE	NO.	ERROR MESSAGE	SECOND VARIABLE	NO.	VALUE ASSUMED
CUL A	WARNING	N1	2	LOW			
CUL A	WARNING	N3	2	LOW			

\*\*\* INPUT CARD PRINTOUT \*\*\*

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

7	100
8	101

0 0 0 0 1  
0



CROSS-SECTION PROPERTIES FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY A-D  
 SECID=A AT DISTANCE= 0 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	RFW	QC
3468.0	17	207	1.04	54	54	51	135	55
3468.5	57	1011	1.20	97	98	50	147	224
3469.0	107	2613	1.10	102	103	48	150	589
3469.5	159	4866	1.07	105	106	47	152	1069
3470.0	212	7687	1.06	108	109	45	153	1636
3470.5	266	11033	1.06	111	112	44	155	2281
3471.0	323	14869	1.06	114	116	42	156	2986
3471.5	381	19184	1.07	119	121	38	158	3741
3472.0	442	23986	1.08	124	125	35	159	4560
3472.5	505	28919	1.09	131	133	32	163	5379
3473.0	574	33896	1.12	143	144	29	171	6176
3473.5	648	39647	1.14	153	155	25	178	7091
3474.0	727	46040	1.15	163	165	22	185	8101
3474.5	810	54002	1.15	167	169	18	186	9401
3475.0	894	62533	1.16	171	174	15	186	10771
3475.5	981	71626	1.16	175	178	12	187	12210
3476.0	1070	81278	1.17	179	182	8	188	13717
3476.5	1160	91483	1.17	183	186	5	188	15293
3477.0	1253	102369	1.17	186	189	3	189	17036
3477.5	1346	113819	1.17	188	191	2	189	18874
3478.0	1441	125792	1.17	190	193	0	190	20780
3478.5	1550	136005	1.25	223	227	-32	191	20756
3479.0	1662	149484	1.25	226	230	-34	191	22832
3479.5	1776	163565	1.26	230	234	-37	192	24991
3480.0	1892	178414	1.26	232	237	-39	192	27268
3480.5	2008	193826	1.27	235	240	-42	192	29621
3481.0	2126	209792	1.27	237	243	-44	192	32050
3481.5	2245	226307	1.27	240	246	-47	192	34553
3482.0	2366	243362	1.28	242	249	-49	192	37128

CROSS-SECTION PROPERTIES FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY A-D  
 SECID=B AT DISTANCE= 165 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	RFW	QC
3472.0	55	2488	1.07	40	41	46	126	360
3472.5	81	3607	1.30	60	62	41	127	467
3473.0	119	5139	1.60	88	91	39	127	624
3473.5	164	7301	1.65	90	93	38	128	978
3474.0	210	9895	1.61	93	96	36	128	1414
3474.5	257	12888	1.55	95	98	34	129	1923
3475.0	305	16259	1.50	97	101	32	129	2501
3475.5	354	19959	1.46	100	104	30	130	3126
3476.0	405	24195	1.45	104	109	27	132	3760

CROSS-SECTION PROPERTIES FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY A-D  
 SECID=B AT DISTANCE= 165 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	RFW	QC
3476.5	458	28811	1.44	109	113	25	134	4441
3477.0	514	33811	1.44	113	118	22	136	5169
3477.5	572	39201	1.44	118	122	20	138	5945
3478.0	632	45081	1.44	122	126	18	140	6801
3478.5	693	51418	1.44	125	130	17	142	7727
3479.0	756	58173	1.43	127	132	15	142	8742
3479.5	820	65317	1.43	129	134	14	143	9817
3480.0	885	72839	1.42	131	137	12	144	10941
3480.5	951	80735	1.42	133	139	11	144	12113
3481.0	1019	88536	1.43	137	143	8	145	13198
3481.5	1088	96726	1.44	140	147	5	145	14331
3482.0	1159	105308	1.45	144	150	2	146	15512
3482.5	1238	105713	1.70	178	185	-30	147	14205
3483.0	1328	116088	1.69	182	189	-33	148	15650
3483.5	1421	126972	1.68	187	194	-36	150	17161
3484.0	1515	138370	1.67	191	198	-39	151	18740
3484.5	1611	151083	1.64	193	200	-39	153	20640
3485.0	1708	164289	1.62	194	202	-39	154	22608
3485.5	1805	177979	1.59	196	204	-39	156	24641
3486.0	1904	192147	1.57	197	206	-39	157	26739
3486.5	2003	206785	1.56	199	209	-39	159	28900
3487.0	2102	221889	1.54	200	211	-39	160	31121

CROSS-SECTION PROPERTIES FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY A-D  
 SECID=C AT DISTANCE= 368 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	RFW	QC
3475.0	34	1378	1.03	20	23	35	72	248
3475.5	46	2085	1.08	27	30	34	72	331
3476.0	61	3096	1.15	29	44	14	72	404
3476.5	86	4655	1.35	53	59	8	72	535
3477.0	113	6484	1.41	55	61	6	71	775
3477.5	141	8624	1.43	57	64	5	71	1056
3478.0	172	11036	1.48	64	73	3	71	1317
3478.5	205	13848	1.50	66	77	2	71	1669
3479.0	239	16958	1.51	69	81	0	71	2051
3479.5	274	20350	1.53	71	85	-1	70	2455
3480.0	310	24028	1.56	74	89	-3	70	2884
3480.5	348	27994	1.58	77	94	-5	70	3339
3481.0	387	31942	1.65	80	106	-7	73	3779
3481.5	428	36457	1.67	82	109	-8	73	4278
3482.0	470	41309	1.69	84	112	-10	73	4837
3482.5	512	46441	1.70	86	115	-12	73	5422

CROSS-SECTION PROPERTIES FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY A-D  
 SECID=C AT DISTANCE= 368 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	RFW	QC
3482.9	547	50746	1.72	88	117	-14	73	5908

CROSS-SECTION PROPERTIES FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY A-D  
 SECID=DUMMY AT DISTANCE= 470 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	RFW	QC
3474.0	4	40	1.01	15	15	38	53	12
3474.5	14	224	1.04	25	25	36	61	60
3475.0	28	636	1.10	29	30	34	63	148
3475.5	44	1225	1.17	34	34	32	65	262
3476.0	62	1989	1.23	38	38	30	67	402
3476.5	81	2929	1.29	42	42	28	69	568
3477.0	103	4046	1.35	46	47	26	72	757
3477.5	128	5326	1.42	52	53	23	76	951
3478.0	156	6814	1.49	59	60	21	80	1172
3478.5	187	8528	1.57	67	68	19	85	1422
3479.0	222	10556	1.59	70	71	16	86	1772
3479.5	258	12812	1.61	74	75	14	88	2157
3480.0	295	15294	1.62	77	78	12	89	2579
3480.5	335	18005	1.63	80	82	9	90	3036
3481.0	376	20947	1.64	84	86	7	91	3528
3481.5	418	24232	1.62	85	87	6	92	4117
3482.0	461	27737	1.61	87	89	6	93	4741
3482.5	505	31456	1.60	89	91	5	94	5400
3483.0	550	35388	1.59	90	93	5	95	6093
3483.5	595	39531	1.59	92	95	4	96	6818
3484.0	644	42623	1.70	104	108	4	108	6965
3484.5	697	47265	1.70	107	111	3	110	7735
3485.0	751	52387	1.68	108	112	2	110	8673
3485.5	805	57730	1.67	108	114	2	110	9649
3486.0	859	63288	1.65	109	115	1	110	10663
3486.5	914	69054	1.64	109	116	1	110	11712
3487.0	968	75024	1.62	110	117	0	110	12796
3487.1	979	76241	1.62	110	118	0	110	13016



CROSS-SECTION PROPERTIES FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY A-D  
 SECID=D AT DISTANCE= 598 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3476.0	31	741	1.12	30	31	33	64	169
3476.5	47	1365	1.18	34	35	31	66	288
3477.0	65	2165	1.24	38	39	29	68	433
3477.5	86	3140	1.30	42	43	27	70	604
3478.0	108	4292	1.36	47	48	25	72	798
3478.5	133	5607	1.43	54	54	23	76	992
3479.0	162	7127	1.51	61	62	20	82	1210
3479.5	194	8918	1.57	67	68	18	86	1489
3480.0	229	10991	1.60	71	72	16	87	1846
3480.5	265	13292	1.61	74	76	14	88	2239
3481.0	303	15821	1.62	78	79	11	89	2667
3481.5	343	18577	1.63	81	83	9	90	3131
3482.0	384	21590	1.63	84	86	7	91	3643
3482.5	426	24920	1.62	86	88	6	92	4240
3483.0	470	28468	1.61	87	90	6	93	4871
3483.5	514	32230	1.60	89	92	5	94	5537
3484.0	559	36204	1.59	91	94	5	95	6236
3484.5	604	40086	1.61	94	98	4	98	6833
3485.0	655	43337	1.72	107	110	3	110	7015
3485.5	708	48277	1.70	107	111	3	110	7920
3486.0	762	53443	1.68	108	113	2	110	8865
3486.5	816	58830	1.66	108	114	2	110	9849
3487.0	870	64430	1.65	109	115	1	110	10870
3487.5	925	70237	1.63	109	116	1	110	11926
3488.0	980	76249	1.62	110	118	0	110	13017

CROSS-SECTION PROPERTIES FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY E-CUL 2  
 SECID=E APP AT DISTANCE= 676 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3475.0	4	52	1.00	15	15	137	152	11
3475.5	12	301	1.00	16	17	136	152	57
3476.0	20	704	1.00	17	18	135	152	122
3476.5	30	1315	1.13	37	40	115	152	145
3477.0	55	2308	1.71	71	73	104	175	212
3477.5	97	3866	2.13	91	93	97	188	390
3478.0	146	6048	2.17	105	107	90	195	664
3478.5	202	8873	2.10	117	120	84	202	1034
3479.0	263	12367	2.01	128	131	80	209	1505
3479.5	330	16510	1.94	139	142	76	216	2067
3480.0	401	21556	1.83	145	148	73	218	2793
3480.5	475	27328	1.74	150	153	69	219	3632
3481.0	551	33742	1.67	155	158	65	220	4558
3481.5	630	40951	1.61	158	161	64	222	5617
3482.0	709	48882	1.55	160	163	63	223	6792
3482.5	790	57412	1.51	162	166	62	224	8046
3483.0	871	66526	1.48	164	168	61	225	9375
3483.5	956	74399	1.52	176	180	50	226	10244
3484.0	1048	82381	1.59	194	198	34	228	10959
3484.5	1150	91547	1.64	212	216	17	229	11841
3485.0	1260	101820	1.69	230	234	0	230	12879

CROSS-SECTION PROPERTIES FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY E-CUL 2  
 SECID=F AT DISTANCE= 1260 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
3478.0	15	522	1.00	18	18	132	150	82
3478.5	25	1054	1.00	20	20	131	151	158
3479.0	35	1757	1.00	22	23	130	152	253
3479.5	47	2637	1.00	25	26	129	153	370
3480.0	60	3702	1.00	27	28	128	155	508
3480.5	75	5013	1.02	36	37	120	156	606
3481.0	96	6693	1.11	49	50	108	157	721
3481.5	124	8828	1.23	75	77	96	171	816
3482.0	185	11802	1.75	163	164	53	216	849
3482.5	273	16564	2.01	187	188	41	228	1320
3483.0	372	22688	2.07	211	213	29	240	1952
3483.5	483	30385	2.01	231	232	21	252	2799
3484.0	601	39811	1.89	241	243	18	260	3915
3484.5	725	50615	1.79	252	254	16	268	5209
3485.0	853	62962	1.70	260	262	13	274	6727
3485.5	984	76924	1.61	264	266	11	275	8499
3486.0	1117	92204	1.54	268	270	9	276	10438

CROSS-SECTION PROPERTIES FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY E-CUL 2  
 SECID=F AT DISTANCE= 1260 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
3486.5	1252	108755	1.48	271	274	6	278	12530
3487.0	1389	126531	1.44	275	278	4	279	14764
3487.5	1527	145507	1.40	279	281	2	281	17132
3488.0	1668	165788	1.37	282	285	0	282	19652
3488.3	1752	178797	1.35	283	286	0	283	21279

CROSS-SECTION PROPERTIES FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY E-CUL 2  
 SECID=CUL 2 AT DISTANCE= 1290 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3480.0	13	721	1.00	6	8	142	148	104
3480.5	16	989	1.00	6	9	142	148	143
3481.0	19	1276	1.00	6	9	142	148	186
3481.5	22	1580	1.00	6	10	142	148	233
3482.0	25	1897	1.00	6	10	142	148	283
3482.5	28	2225	1.00	6	11	142	148	336
3483.0	31	2562	1.00	6	11	142	148	392
3483.5	35	2931	1.09	37	48	128	165	187
3484.0	84	4182	2.77	127	138	85	212	232
3484.5	154	6964	2.71	154	165	77	231	530
3485.0	238	11170	2.17	182	193	68	250	1048
3485.5	336	16876	1.78	209	220	60	269	1805
3486.0	447	24186	1.54	236	247	52	288	2807
3486.5	572	33215	1.39	264	275	44	308	4053
3487.0	710	44250	1.28	289	300	36	325	5576
3487.5	859	57789	1.20	305	317	28	333	7455
3488.0	1016	73215	1.15	322	333	20	341	9548
3488.5	1181	90559	1.11	338	350	11	350	11851
3489.0	1354	109853	1.09	355	366	3	358	14364
3489.4	1499	127369	1.08	365	376	0	365	16614

CROSS-SECTION PROPERTIES FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY CUL 2-J  
 SECID=CUL 2 AT DISTANCE= 1290 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3480.0	13	721	1.00	6	8	142	148	104
3480.5	16	989	1.00	6	9	142	148	143
3481.0	19	1276	1.00	6	9	142	148	186
3481.5	22	1580	1.00	6	10	142	148	233
3482.0	25	1897	1.00	6	10	142	148	283
3482.5	28	2225	1.00	6	11	142	148	336
3483.0	31	2562	1.00	6	11	142	148	392
3483.5	35	2931	1.09	37	48	128	165	187
3484.0	84	4182	2.77	127	138	85	212	232
3484.5	154	6964	2.71	154	165	77	231	530
3485.0	238	11170	2.17	182	193	68	250	1048
3485.5	336	16876	1.78	209	220	60	269	1805
3486.0	447	24186	1.54	236	247	52	288	2807
3486.5	572	33215	1.39	264	275	44	308	4053
3487.0	710	44250	1.28	289	300	36	325	5576
3487.5	859	57789	1.20	305	317	28	333	7455
3488.0	1016	73215	1.15	322	333	20	341	9548
3488.5	1181	90559	1.11	338	350	11	350	11851
3489.0	1354	109853	1.09	355	366	3	358	14364
3489.4	1499	127369	1.08	365	376	0	365	16614

CROSS-SECTION PROPERTIES FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY CUL 2-J  
 SECID=G AT DISTANCE= 1328 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
3480.0	18	774	1.07	16	17	34	50	107
3480.5	28	1294	1.13	21	22	31	51	170
3481.0	39	1996	1.15	25	27	27	52	257
3481.5	53	2907	1.16	30	31	24	53	370
3482.0	69	4063	1.15	34	36	21	54	517
3482.5	87	5508	1.13	44	46	19	110	645
3483.0	121	7533	1.35	104	107	18	189	637
3483.5	189	11083	1.60	153	155	16	200	944
3484.0	272	16207	1.60	181	184	14	212	1495
3484.5	371	23158	1.51	210	213	13	223	2277
3485.0	480	32220	1.39	225	228	11	236	3375
3485.5	596	42956	1.30	241	244	10	251	4658
3486.0	721	55477	1.24	258	261	8	266	6133
3486.5	854	69799	1.20	274	277	7	281	7797
3487.0	995	86155	1.17	289	293	5	295	9680
3487.5	1142	105093	1.14	300	303	4	304	11861
3488.0	1295	125892	1.12	310	313	3	312	14214
3488.5	1452	148554	1.10	320	324	1	321	16736

CROSS-SECTION PROPERTIES FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY CUL 2-J  
 SECID=G AT DISTANCE= 1328 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
3489.0	1615	173165	1.09	330	334	0	330	19437
3489.5	1782	199934	1.08	339	343	0	339	22345

CROSS-SECTION PROPERTIES FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY CUL 2-J  
 SECID=H AT DISTANCE= 1433 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3480.0	22	1215	1.00	14	15	55	69	158
3480.5	29	1826	1.00	15	17	54	70	233
3481.0	37	2582	1.00	17	19	53	70	314
3481.5	47	3515	1.03	20	22	51	71	399
3482.0	59	4674	1.15	36	39	41	78	401
3482.5	84	6271	1.48	61	64	29	90	458
3483.0	120	8417	1.85	91	93	22	113	576
3483.5	178	11371	2.36	137	140	15	152	751
3484.0	257	15405	2.72	178	181	8	186	1062
3484.5	355	20959	2.80	210	212	7	217	1564
3485.0	467	27844	2.77	238	241	6	244	2226
3485.5	591	36346	2.62	254	257	3	257	3159
3486.0	721	46287	2.44	266	269	0	266	4310
3486.5	857	57540	2.29	278	281	-2	275	5645
3487.0	999	70250	2.15	289	292	-4	284	7173
3487.5	1146	84461	2.05	299	302	-4	294	8890
3487.8	1236	93592	1.99	305	309	-4	300	9995

CROSS-SECTION PROPERTIES FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY CUL 2-J  
 SECID=I AT DISTANCE= 1793 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
3482.0	11	286	1.00	19	19	39	58	48
3482.5	21	770	1.00	21	21	38	59	119
3483.0	32	1448	1.00	23	23	37	60	213
3483.5	44	2298	1.00	25	26	36	61	327
3484.0	57	3340	1.00	27	28	34	61	463
3484.5	71	4536	1.00	30	31	32	62	616
3485.0	87	5941	1.00	33	35	30	63	794
3485.5	111	7661	1.13	75	76	28	117	727
3486.0	163	10399	1.56	130	132	-34	144	829
3486.5	240	14274	1.98	173	175	-59	151	1138
3487.0	336	19604	2.19	214	216	-88	152	1617
3487.5	467	26878	2.31	292	294	-156	153	2203

CROSS-SECTION PROPERTIES FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY CUL 2-J  
 SECID=I AT DISTANCE= 1798 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
3488.0	617	37294	2.12	313	315	-157	154	3376
3488.5	774	50744	1.87	315	318	-159	155	5025
3489.0	933	66464	1.70	318	321	-161	157	6946
3489.5	1092	84292	1.58	321	324	-162	158	9086
3490.0	1254	104113	1.50	324	327	-164	159	11406
3490.5	1416	126043	1.45	325	329	-164	160	13921

CROSS-SECTION PROPERTIES FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY CUL 2-J  
 SECID=J AT DISTANCE= 1895 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3483.0	14	437	1.00	16	17	208	224	78
3483.5	23	876	1.00	18	19	208	225	148
3484.0	32	1454	1.00	19	20	207	226	237
3484.5	42	2158	1.00	21	22	206	227	343
3485.0	53	3042	1.00	22	24	205	227	464
3485.5	67	4228	1.05	31	33	197	228	548
3486.0	84	5695	1.08	35	37	194	229	706
3486.5	102	7481	1.10	39	41	191	230	894
3487.0	128	9357	1.29	73	75	100	231	848
3487.5	172	12277	1.45	103	106	83	232	1048
3488.0	231	16122	1.55	136	139	63	233	1377
3488.5	316	21267	1.66	190	193	21	234	1798
3489.0	413	29279	1.48	197	201	20	235	2784
3489.5	514	38861	1.34	205	209	20	235	3979
3490.0	619	49563	1.26	217	221	19	236	5272
3490.5	728	62911	1.18	218	223	19	237	6949
3491.0	837	77775	1.12	220	225	18	238	8763
3491.5	947	94153	1.08	221	226	18	239	10692
3492.0	1058	111879	1.06	222	228	18	239	12732
3492.5	1169	130903	1.04	223	229	17	240	14874
3493.0	1281	151093	1.03	224	231	16	240	17101
3493.5	1393	172482	1.02	226	233	15	241	19419
3494.0	1507	192546	1.01	231	238	15	246	21761
3494.5	1624	214255	1.00	236	244	14	250	24144
3495.0	1743	239427	1.00	238	246	12	250	26743
3495.5	1863	263889	1.00	243	251	7	250	29270
3496.0	1985	289480	1.00	247	256	3	250	31898
3496.3	2060	305369	1.00	250	260	0	250	33522

CROSS-SECTION PROPERTIES FOR: MIDDLE FORK CREEK BLOWING ROCK X-SECTION PROP J-K  
 SECID=RD GH AT DISTANCE= 0 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3494.4	6	59	1.00	73	73	287	360	10
3494.4	6	59	1.00	73	73	287	360	10
3494.5	15	207	1.00	95	95	275	370	32
3494.6	25	448	1.00	117	117	263	380	66
3494.7	38	799	1.00	140	140	250	390	113
3494.8	54	1257	1.00	170	170	240	410	174
3494.9	72	1882	1.00	190	190	230	420	253
3495.0	92	2647	1.00	210	210	220	430	347
3495.1	114	3557	1.00	230	230	210	440	457
3495.2	138	4629	1.00	250	250	200	450	583
3495.3	164	5955	1.00	262	262	194	456	735
3495.4	191	7443	1.00	274	274	188	461	903
3495.5	219	9091	1.00	285	285	181	467	1085
3495.6	248	10896	1.00	297	297	175	472	1283
3495.7	278	12871	1.00	309	309	169	478	1496
3495.8	310	15008	1.00	321	321	163	483	1724
3495.9	342	17321	1.00	333	333	156	489	1969
3496.0	376	19808	1.00	344	344	150	494	2229
3496.1	411	22534	1.00	355	355	145	500	2511
3496.2	447	25459	1.00	364	364	141	505	2810
3496.3	484	28554	1.00	374	374	136	510	3123
3496.4	522	31835	1.00	383	383	132	515	3453
3496.5	561	35297	1.00	393	393	127	520	3799
3496.6	600	38932	1.00	402	402	123	525	4159
3496.7	641	42760	1.00	412	412	118	530	4536
3496.8	683	46765	1.00	421	421	114	535	4928
3496.9	725	50968	1.00	431	431	109	540	5337
3497.0	769	55362	1.00	440	441	105	545	5762

CROSS-SECTION PROPERTIES FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY K-CUL T  
 SECID=K AT DISTANCE= 1996 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3484.0	21	794	1.00	17	18	100	116	137
3484.5	30	1324	1.00	18	19	99	117	221
3485.0	39	1964	1.00	19	21	98	117	320
3485.5	49	2547	1.00	23	25	97	120	410
3486.0	61	3436	1.00	25	28	96	122	542
3486.5	75	4520	1.00	27	30	95	123	699
3487.0	89	5772	1.00	29	32	94	123	878
3487.5	104	7158	1.00	31	34	93	124	1074
3488.0	120	8605	1.00	34	38	92	127	1276
3488.5	138	10264	1.00	37	41	91	129	1505
3489.0	157	11917	1.00	42	46	90	132	1735
3489.5	180	13819	1.00	47	51	90	136	1998
3490.0	206	16554	1.02	62	66	88	150	2112
3490.5	255	19979	1.16	107	112	86	193	2067
3491.0	312	24279	1.24	121	126	84	205	2544
3491.5	376	29918	1.28	133	138	77	210	3168
3492.0	446	36779	1.30	146	151	64	210	3876
3492.5	522	44585	1.31	160	166	50	210	4670
3493.0	607	53355	1.33	180	186	30	210	5473
3493.5	703	63219	1.36	202	208	9	210	6372
3494.0	809	74346	1.39	220	226	-8	211	7461
3494.5	922	86743	1.41	235	242	-24	211	8729
3495.0	1044	100391	1.42	251	258	-39	211	10128
3495.5	1169	116027	1.40	251	259	-39	211	12086
3496.0	1297	128492	1.45	267	277	-39	216	13459
3496.1	1324	130713	1.47	273	283	-39	233	13660

CROSS-SECTION PROPERTIES FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY K-CUL T  
 SECID=L AT DISTANCE= 2530 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
3488.0	27	1294	1.00	14	16	48	62	214
3488.5	35	1717	1.00	18	20	47	65	281
3489.0	45	2419	1.00	19	21	46	65	388
3489.5	55	3084	1.00	22	25	44	66	489
3490.0	67	3985	1.00	25	28	42	66	623
3490.5	79	5129	1.00	26	29	41	67	790
3491.0	93	6277	1.00	28	32	40	68	956
3491.5	108	7187	1.00	34	38	39	74	1091
3492.0	127	8430	1.00	41	45	39	79	1272
3492.5	177	10728	1.26	182	186	38	280	885
3493.0	303	16863	1.46	267	271	37	304	1515
3493.5	439	26436	1.27	278	282	35	313	2783

$$Q_c = \frac{V \sqrt{A}}{L \cdot T}$$



CROSS-SECTION PROPERTIES FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY K-CUL T  
 SECID=L AT DISTANCE= 2530 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	RFW	QC
3494.0	581	38851	1.14	289	294	34	323	4387
3494.5	726	54443	1.06	291	296	33	324	6319
3495.0	873	72606	1.03	293	298	32	325	8428
3495.5	1020	93065	1.01	296	301	31	327	10693
3496.0	1168	115721	1.00	298	303	30	328	13106
3496.5	1318	140481	1.00	300	306	29	329	15662
3497.0	1468	167266	1.00	302	308	28	331	18356
3497.5	1620	195291	1.00	306	312	26	332	21125
3498.0	1775	224192	1.01	312	318	21	334	23905
3498.5	1932	255173	1.02	318	325	17	335	26794
3499.0	2093	288060	1.02	325	331	12	337	29779
3499.5	2257	322795	1.03	332	338	6	338	32854
3500.0	2425	359580	1.04	339	346	1	340	36052
3500.5	2597	394839	1.04	349	356	0	349	39433

CROSS-SECTION PROPERTIES FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY K-CUL T  
 SECID=CUL T AT DISTANCE= 2535 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	RFW	QC
3490.0	6	473	1.00	2	8	74	76	56
3490.5	7	569	1.00	2	9	74	76	71
3491.0	8	666	1.00	2	10	74	76	87
3491.5	9	763	1.00	2	11	74	76	105
3492.0	10	860	1.00	2	12	74	76	123
3492.5	11	958	1.00	2	13	74	76	142
3493.0	12	1056	1.00	2	14	74	76	163
3493.5	46	1806	3.41	86	99	74	245	102
3494.0	95	3734	2.20	113	126	74	253	336
3494.5	158	6865	1.50	139	153	74	260	782
3495.0	234	11331	1.22	165	181	74	268	1431
3495.5	323	17278	1.11	191	208	74	276	2266
3496.0	424	25350	1.05	212	230	71	284	3320
3496.5	534	35858	1.03	226	244	65	291	4580
3497.0	651	48190	1.03	240	257	58	298	6000
3497.5	774	62403	1.03	252	270	52	304	7586
3498.0	903	78371	1.03	264	282	45	310	9326
3498.5	1038	96111	1.03	277	294	39	316	11224
3499.0	1180	115645	1.04	289	307	32	321	13281
3499.5	1327	137000	1.04	301	319	26	327	15501
3500.0	1481	160203	1.04	313	331	19	333	17886
3500.5	1640	185286	1.04	326	343	13	339	20439
3501.0	1806	212278	1.05	338	356	6	344	23163
3501.5	1978	241245	1.05	350	368	0	350	26064

CROSS-SECTION PROPERTIES FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY CUL A-0  
 SECID=CUL A AT DISTANCE= 2633 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	RFW	QC
3491.0	5	378	1.00	2	7	74	76	42
3491.5	6	473	1.00	2	8	74	76	56
3492.0	7	569	1.00	2	9	74	76	71
3492.5	8	666	1.00	2	10	74	76	87
3493.0	9	763	1.00	2	11	74	76	105
3493.5	43	1512	3.62	86	96	74	245	89
3494.0	92	3440	2.06	113	123	74	253	331
3494.5	155	6570	1.41	139	150	74	260	784
3495.0	231	11036	1.18	165	178	74	268	1430
3495.5	320	16982	1.08	191	205	74	276	2257
3496.0	421	25054	1.04	212	227	71	284	3301
3496.5	531	35560	1.03	226	241	65	291	4550
3497.0	648	47892	1.03	240	254	58	298	5963
3497.5	771	62106	1.03	252	267	52	304	7543
3498.0	900	78076	1.03	264	279	45	310	9279
3498.5	1035	95819	1.03	277	291	39	316	11173
3499.0	1177	115357	1.04	289	304	32	321	13228
3499.5	1324	136716	1.04	301	316	25	327	15446
3500.0	1478	159925	1.04	313	328	19	333	17829
3500.5	1637	185014	1.04	326	340	13	339	20380
3501.0	1803	212014	1.05	338	353	6	344	23102
3501.5	1975	240988	1.05	350	365	0	350	26001

CROSS-SECTION PROPERTIES FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY CUL A-0  
 SECID=M AT DISTANCE= 2653 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	RFW	QC
3492.0	44	1838	1.00	21	23	74	95	355
3492.5	55	2518	1.00	23	25	73	96	477
3493.0	68	2373	1.00	45	47	72	265	475
3493.5	122	2495	1.00	184	186	71	297	563
3494.0	228	6047	1.00	233	235	70	303	1278
3494.5	346	11844	1.00	242	244	69	311	2350
3495.0	470	19130	1.00	252	255	69	321	3635
3495.5	596	28262	1.00	255	258	68	323	5173
3496.0	724	38777	1.00	258	261	68	326	6888
3496.5	854	50572	1.00	261	264	67	328	8761
3497.0	986	63628	1.00	265	268	66	330	10790
3497.5	1119	77945	1.00	268	271	64	332	12971
3498.0	1253	93481	1.00	271	274	63	334	15297
3498.5	1389	110173	1.00	273	277	62	336	17759
3499.0	1527	127991	1.00	276	280	61	338	20352
3499.5	1665	147077	1.00	279	283	60	339	23092

CROSS-SECTION PROPERTIES FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY CUL A-0  
 SECID=M AT DISTANCE= 2653 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	RFW	QC
3500.0	1807	164795	1.00	288	292	52	340	25665
3500.5	1954	182913	1.00	300	304	42	342	28298
3501.0	2107	200955	1.00	314	319	30	344	30938
3501.5	2268	219154	1.00	332	337	13	345	33637
3501.7	2336	224194	1.00	345	350	0	345	34468

CROSS-SECTION PROPERTIES FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY CUL A-0  
 SECID=N AT DISTANCE= 2838 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	RFW	QC
3492.0	12	333	1.00	16	16	123	136	60
3492.5	21	716	1.00	19	19	122	140	123
3493.0	31	1251	1.00	22	22	121	143	207
3493.5	42	1953	1.00	25	26	120	145	314
3494.0	63	2020	1.00	66	67	119	185	352
3494.5	108	3619	1.00	104	105	118	222	621
3495.0	167	6389	1.00	132	134	118	250	1060
3495.5	235	10907	1.00	139	141	117	256	1725
3496.0	306	16434	1.00	147	148	116	263	2509
3496.5	392	20123	1.00	202	203	67	269	3103
3497.0	501	27737	1.00	231	232	42	273	4195
3497.5	619	38482	1.00	239	240	38	276	5652
3498.0	740	50894	1.00	245	247	35	280	7289
3498.5	864	64886	1.00	251	253	33	283	9092
3499.0	991	80314	1.00	256	259	30	287	11042
3499.5	1121	96808	1.00	264	266	27	290	13101
3500.0	1254	114613	1.00	271	274	22	294	15294
3500.5	1392	133871	1.00	279	281	19	297	17637
3501.0	1533	154611	1.00	286	288	15	301	20130
3501.5	1678	176753	1.00	293	296	11	304	22764
3502.0	1827	200303	1.00	301	303	7	308	25539
3502.5	1979	225267	1.00	308	310	4	311	28455
3503.0	2134	251669	1.00	315	318	0	315	31513

CROSS-SECTION PROPERTIES FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY CUL A-0  
 SECID=O AT DISTANCE= 3055 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	RFW	QC
3495.0	18	578	1.00	18	18	133	151	101
3495.5	28	1023	1.00	24	25	130	154	174
3496.0	42	1688	1.00	30	31	128	158	279

CROSS-SECTION PROPERTIES FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY CUL A-0  
 SECID=0 AT DISTANCE= 3055 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
3496.5	58	2679	1.00	34	35	126	159	428
3497.0	75	3928	1.00	37	38	124	161	610
3497.5	95	5424	1.00	40	41	122	162	823
3498.0	115	7177	1.00	43	45	120	163	1067
3498.5	138	9240	1.00	46	48	118	164	1350
3499.0	162	11487	1.00	50	51	115	165	1656
3499.5	188	13681	1.00	56	58	110	166	1959
3500.0	217	16218	1.00	62	64	105	167	2305
3500.5	250	19197	1.00	74	76	100	197	2606
3501.0	296	22777	1.04	108	110	95	206	2720
3501.5	355	27728	1.08	126	129	89	216	3251
3502.0	422	33750	1.09	141	144	84	225	3974
3502.5	497	41154	1.08	158	161	77	235	4796
3503.0	582	50857	1.10	184	187	60	244	5596
3503.5	686	61725	1.15	237	240	20	257	6167
3504.0	816	74256	1.23	275	278	0	275	7197

CROSS-SECTION PROPERTIES FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY E-CUL 2  
 SECID=E APP AT DISTANCE= 676 PART 1 OF 1  
 \*\*\* FLOODWAY ANALYSIS \*\*\* 100 YR FLOOD E-CUL 2

WS	A	K	ALPHA	B	P	LEW	RFW	QC
3475.0	4	52	1.00	15	15	137	152	11
3475.5	12	301	1.00	16	17	136	152	57
3476.0	20	704	1.00	17	18	135	152	122
3476.5	30	1315	1.13	37	40	115	152	145
3477.0	55	2308	1.71	71	73	104	175	212
3477.5	96	3889	2.06	86	89	102	188	402
3478.0	141	6095	1.98	90	94	102	192	707
3478.5	186	8862	1.83	90	95	102	192	1117
3479.0	231	12085	1.71	90	96	102	192	1601
3479.5	276	15718	1.62	90	97	102	192	2147
3480.0	321	19726	1.56	90	98	102	192	2745
3480.5	366	24081	1.52	90	99	102	192	3391
3481.0	411	28761	1.49	90	100	102	192	4079
3481.5	456	33745	1.46	90	101	102	192	4807
3482.0	501	39017	1.45	50	102	102	192	5570
3482.5	546	44561	1.43	90	103	102	192	6367
3483.0	591	50365	1.42	90	104	102	192	7195
3483.5	636	56416	1.42	90	105	102	192	8053
3484.0	681	62704	1.41	90	106	102	192	8939
3484.5	726	69218	1.41	90	107	102	192	9852
3485.0	771	75950	1.41	90	108	102	192	10790

CROSS-SECTION PROPERTIES FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY E-CUL 2  
 SECID=F AT DISTANCE= 1260 PART 1 OF 2  
 \*\*\* FLOODWAY ANALYSIS \*\*\* 100 YR FLOOD E-CUL 2

WS	A	K	ALPHA	B	P	LEW	RFW	QC
3478.0	15	522	1.00	18	18	132	150	82
3478.5	25	1054	1.00	20	20	131	151	158
3479.0	35	1757	1.00	22	23	130	152	253
3479.5	47	2637	1.00	25	26	129	153	370
3480.0	60	3702	1.00	27	28	128	155	508
3480.5	75	5013	1.01	33	35	122	156	627
3481.0	92	6640	1.04	35	37	122	157	828
3481.5	109	9523	1.05	36	38	122	158	1058
3482.0	127	10709	1.05	36	39	122	158	1323
3482.5	145	13063	1.06	36	40	122	158	1608
3483.0	163	15569	1.06	36	41	122	158	1911
3483.5	180	18214	1.07	36	42	122	158	2229
3484.0	198	20988	1.07	36	43	122	158	2564
3484.5	216	23880	1.07	36	44	122	158	2913
3485.0	234	26884	1.07	36	45	122	158	3276
3485.5	251	29991	1.08	36	46	122	158	3652
3486.0	269	33195	1.08	36	47	122	158	4041

CROSS-SECTION PROPERTIES FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY E-CUL 2  
 SECID=F AT DISTANCE= 1260 PART 2 OF 2  
 \*\*\* FLOODWAY ANALYSIS \*\*\* 100 YR FLOOD E-CUL 2

WS	A	K	ALPHA	B	P	LEW	REW	GC
3486.5	287	36491	1.08	36	48	122	158	4443
3487.0	305	39873	1.09	36	49	122	158	4857
3487.5	323	43337	1.09	36	50	122	158	5282
3488.0	340	46878	1.09	36	51	122	158	5719
3488.3	351	49036	1.09	36	52	122	158	5986

CROSS-SECTION PROPERTIES FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY E-CUL 2  
 SECID=CUL 2 AT DISTANCE= 1290 PART 1 OF 1  
 \*\*\* FLOODWAY ANALYSIS \*\*\* 100 YR FLOOD E-CUL 2

WS	A	K	ALPHA	B	P	LEW	REW	GC
3480.0	13	721	1.00	6	8	142	148	104
3480.5	16	989	1.00	6	9	142	148	143
3481.0	19	1276	1.00	6	9	142	148	186
3481.5	22	1580	1.00	6	10	142	148	233
3482.0	25	1897	1.00	6	10	142	148	283
3482.5	28	2225	1.00	6	11	142	148	336
3483.0	31	2562	1.00	6	11	142	148	392
3483.5	35	2931	1.09	37	48	128	165	187
3484.0	84	4182	2.77	127	138	85	212	232
3484.5	154	6964	2.71	154	165	77	231	530
3485.0	238	11170	2.17	182	193	68	250	1048
3485.5	336	16880	1.78	209	220	60	269	1806
3486.0	447	24191	1.54	236	247	52	288	2808
3486.5	572	33221	1.39	264	275	44	308	4054
3487.0	710	44251	1.28	289	300	36	325	5576
3487.5	859	57789	1.20	305	317	28	333	7455
3488.0	1016	73216	1.15	322	333	20	342	9548
3488.5	1181	90559	1.11	339	350	11	350	11851
3489.0	1354	109855	1.09	355	366	3	358	14364
3489.4	1499	127402	1.08	365	376	0	365	16619

CROSS-SECTION PROPERTIES FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY CUL 2-J  
 SECID=G AT DISTANCE= 1328 PART 1 OF 1  
 \*\*\* FLOODWAY ANALYSIS \*\*\* 100 YR FLOOD G-J

WS	A	K	ALPHA	B	P	LEW	REW	QC
3480.0	18	742	1.00	13	15	37	50	117
3480.5	25	1191	1.00	14	17	37	51	183
3481.0	32	1731	1.00	15	18	37	52	262
3481.5	40	2361	1.00	16	20	37	53	353
3482.0	48	3084	1.00	18	22	37	54	457
3482.5	58	3903	1.01	27	31	37	110	482
3483.0	81	5132	1.27	63	69	37	167	459
3483.5	126	7338	1.53	99	106	37	168	647
3484.0	178	10537	1.50	115	123	37	168	1025
3484.5	241	14904	1.40	131	140	37	168	1567
3485.0	307	20802	1.24	131	141	37	168	2389
3485.5	372	27667	1.14	131	142	37	168	3327
3486.0	437	35414	1.09	131	143	37	168	4353
3486.5	503	43975	1.05	131	144	37	168	5453
3487.0	568	53298	1.03	131	145	37	168	6617
3487.5	634	63340	1.02	131	146	37	168	7842
3488.0	699	74063	1.01	131	147	37	168	9123
3488.5	765	85433	1.00	131	148	37	168	10459
3489.0	830	97423	1.00	131	149	37	168	11846
3489.5	895	110006	1.00	131	150	37	168	13282

CROSS-SECTION PROPERTIES FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY CUL 2-J  
 SECID=H AT DISTANCE= 1433 PART 1 OF 1  
 \*\*\* FLOODWAY ANALYSIS \*\*\* 100 YR FLOOD G-J

WS	A	K	ALPHA	B	P	LEW	REW	QC
3480.0	22	1215	1.00	14	15	55	69	158
3480.5	29	1826	1.00	15	17	54	70	233
3481.0	37	2582	1.00	17	19	53	70	314
3481.5	47	3515	1.03	20	22	51	71	399
3482.0	59	4677	1.15	35	38	43	78	408
3482.5	80	6249	1.36	48	50	43	90	505
3483.0	107	8156	1.63	70	73	43	113	591
3483.5	152	10719	2.05	97	101	43	139	758
3484.0	201	14063	2.16	97	102	43	139	1114
3484.5	249	17951	2.15	97	103	43	139	1545
3485.0	297	22322	2.09	97	104	43	139	2043
3485.5	345	27136	2.03	97	105	43	139	2603
3486.0	394	32360	1.96	97	106	43	139	3218
3486.5	442	37967	1.91	97	107	43	139	3884
3487.0	490	43936	1.86	97	108	43	139	4596
3487.5	538	50248	1.82	97	109	43	139	5351
3487.8	567	54189	1.80	97	109	43	139	5823

CROSS-SECTION PROPERTIES FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY CUL 2-J  
 SECID=I AT DISTANCE= 1798 PART 1 OF 1  
 \*\*\* FLOODWAY ANALYSIS \*\*\* 100 YR FLOOD G-J

WS	A	K	ALPHA	B	P	LEW	REW	QC
3482.0	11	286	1.00	19	19	39	58	48
3482.5	21	770	1.00	21	21	38	59	119
3483.0	32	1448	1.00	23	23	37	60	213
3483.5	44	2298	1.00	25	26	36	61	327
3484.0	57	3340	1.00	27	28	34	61	463
3484.5	71	4536	1.00	30	31	32	62	616
3485.0	87	5941	1.00	33	35	30	63	794
3485.5	104	7601	1.00	35	38	28	64	1002
3486.0	122	9748	1.00	36	39	28	64	1273
3486.5	140	12056	1.00	36	40	28	64	1565
3487.0	158	14507	1.00	36	41	28	64	1876
3487.5	176	17088	1.00	36	42	28	64	2206
3488.0	194	19786	1.00	36	43	28	64	2553
3488.5	212	22589	1.00	36	44	28	64	2917
3489.0	230	2590	1.00	36	45	28	64	3296
3489.5	248	28479	1.00	36	46	28	64	3691
3490.0	266	31550	1.00	36	47	28	64	4100
3490.5	284	34696	1.00	36	48	28	64	4523

CROSS-SECTION PROPERTIES FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY CUL 2-J  
 SECID=J AT DISTANCE= 1895 PART 1 OF 2  
 \*\*\* FLOODWAY ANALYSIS \*\*\* 100 YR FLOOD G-J

WS	A	K	ALPHA	B	P	LEW	REW	QC
3483.0	14	437	1.00	16	17	208	224	78
3483.5	23	876	1.00	18	19	208	225	148
3484.0	32	1454	1.00	19	20	207	226	237
3484.5	42	2158	1.00	21	22	206	227	343
3485.0	53	3042	1.00	22	24	205	227	464
3485.5	64	4107	1.00	23	25	205	228	607
3486.0	76	5320	1.00	24	27	205	229	763
3486.5	88	6702	1.00	25	29	205	230	935
3487.0	101	8264	1.00	26	30	205	231	1122
3487.5	114	9909	1.00	27	32	205	232	1328
3488.0	127	11605	1.00	28	33	205	233	1549
3488.5	142	13420	1.00	29	35	205	234	1785
3489.0	156	15351	1.00	30	36	205	235	2035
3489.5	171	17401	1.00	30	38	205	235	2300
3490.0	187	19573	1.00	31	39	205	236	2581
3490.5	202	21869	1.00	32	41	205	237	2876
3491.0	219	24311	1.00	33	42	205	238	3191
3491.5	236	26950	1.00	34	44	205	239	3532
3492.0	253	29698	1.00	34	45	205	239	3888
3492.5	270	32555	1.00	35	46	205	240	4258



USGS STEP-BACKWATER PROGRAM - VERSION 76.170 \*\*\* PAGE COUNT= 10-DATE= 2/17/77

CROSS-SECTION PROPERTIES FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY CUL 2-J  
SECID=J AT DISTANCE= 1895 PART 2 OF 2  
\*\*\* FLOODWAY ANALYSIS \*\*\* 100 YR FLOOD G-J

MS	A	K	ALPHA	B	P	LEW	RFW	QC
3493.0	287	35520	1.00	35	48	205	240	4642
3493.5	305	38594	1.00	36	49	205	241	5041
3494.0	323	41891	1.00	36	50	205	241	5493
3494.5	341	45248	1.00	36	51	205	241	5959
3495.0	359	48659	1.00	36	52	205	241	6436
3495.5	377	52121	1.00	36	53	205	241	6926
3496.0	395	55632	1.00	36	54	205	241	7428
3496.3	406	57758	1.00	36	54	205	241	7734

CROSS-SECTION PROPERTIES FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY K-CUL T  
 SECID=K AT DISTANCE= 1996 PART 1 OF 1  
 \*\*\* FLOODWAY ANALYSIS \*\*\* 100 YR FLOOD K-CUL T

WS	A	K	ALPHA	B	P	LEW	REW	QC
3484.0	21	794	1.00	17	18	100	116	137
3484.5	30	1324	1.00	18	19	99	117	221
3485.0	39	1964	1.00	19	21	98	117	320
3485.5	49	2547	1.00	23	25	97	120	410
3486.0	61	3436	1.00	25	28	96	122	542
3486.5	75	4520	1.00	27	30	95	123	699
3487.0	89	5772	1.00	29	32	94	123	878
3487.5	104	7158	1.00	31	34	93	124	1074
3488.0	120	8605	1.00	34	38	92	127	1276
3488.5	138	10264	1.00	37	41	91	129	1505
3489.0	157	11917	1.00	42	46	90	132	1735
3489.5	180	13819	1.00	47	51	90	136	1998
3490.0	204	16445	1.00	49	53	88	137	2356
3490.5	228	19297	1.00	51	56	86	137	2743
3491.0	255	22387	1.00	53	59	84	137	3159
3491.5	281	25979	1.00	54	60	83	137	3644
3492.0	308	29935	1.00	54	61	83	137	4181
3492.5	335	34061	1.00	54	62	83	137	4742
3493.0	362	38344	1.00	54	63	83	137	5326
3493.5	389	42773	1.00	54	64	83	137	5932
3494.0	416	47341	1.00	54	65	83	137	6559
3494.5	443	52038	1.00	54	66	83	137	7207
3495.0	470	56856	1.00	54	67	83	137	7875
3495.5	497	61789	1.00	54	68	83	137	8563
3496.0	524	66831	1.00	54	69	83	137	9270
3496.1	530	67850	1.00	54	70	83	137	9413

CROSS-SECTION PROPERTIES FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY K-CUL T  
 SECID=L AT DISTANCE= 2530 PART 1 OF 2  
 \*\*\* FLOODWAY ANALYSIS \*\*\* 100 YR FLOOD K-CUL T

WS	A	K	ALPHA	B	P	LEW	RFW	QC
3488.0	27	1294	1.00	14	16	48	62	214
3488.5	35	1717	1.00	18	20	47	65	281
3489.0	45	2419	1.00	19	21	46	65	388
3489.5	55	3084	1.00	22	25	44	66	489
3490.0	67	3985	1.00	25	28	42	66	623
3490.5	79	5129	1.00	26	29	41	67	790
3491.0	93	6277	1.00	28	32	40	68	956
3491.5	108	7187	1.00	34	38	39	74	1091
3492.0	127	8430	1.00	41	45	39	79	1272
3492.5	149	10277	1.00	45	50	38	83	1535
3493.0	172	12789	1.00	46	51	37	83	1885
3493.5	195	15396	1.00	48	53	35	83	2245

CROSS-SECTION PROPERTIES FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY K-CUL T  
 SECID=L AT DISTANCE= 2530 PART 2 OF 2  
 \*\*\* FLOODWAY ANALYSIS \*\*\* 100 YR FLOOD K-CUL T

WS	A	K	ALPHA	B	P	LEW	RFW	QC
3494.0	219	18218	1.00	49	55	34	83	2632
3494.5	244	21317	1.00	50	57	33	83	3053
3495.0	270	24710	1.00	51	59	32	83	3512
3495.5	295	28301	1.00	52	60	31	83	3995
3496.0	322	32085	1.00	53	62	30	83	4502
3496.5	348	36059	1.00	54	63	29	83	5033
3497.0	375	40221	1.00	55	64	28	83	5587
3497.5	403	44648	1.00	55	66	28	83	6183
3498.0	430	49344	1.00	55	67	28	83	6826
3498.5	458	54171	1.00	55	68	28	83	7491
3499.0	485	59122	1.00	55	69	28	83	8176
3499.5	513	64190	1.00	55	70	28	83	8881
3500.0	540	69368	1.00	55	71	28	83	9605
3500.5	568	74650	1.00	55	72	28	83	10347

CROSS-SECTION PROPERTIES FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY K-CUL T  
 SECID=CUL T AT DISTANCE= 2535 PART 1 OF 1  
 \*\*\* FLOODWAY ANALYSIS \*\*\* 100 YR FLOOD K-CUL T

WS	A	K	ALPHA	B	P	LEW	PEW	QC
3490.0	6	473	1.00	2	8	74	76	56
3490.5	7	569	1.00	2	9	74	76	71
3491.0	8	666	1.00	2	10	74	76	87
3491.5	9	763	1.00	2	11	74	76	105
3492.0	10	860	1.00	2	12	74	76	123
3492.5	11	958	1.00	2	13	74	76	142
3493.0	12	1056	1.00	2	14	74	76	163
3493.5	46	1806	3.41	86	99	74	245	102
3494.0	95	3734	2.20	113	126	74	253	336
3494.5	158	6865	1.50	139	154	74	260	782
3495.0	234	11332	1.22	165	181	74	268	1431
3495.5	323	17278	1.11	191	208	74	276	2266
3496.0	424	25351	1.05	212	230	71	284	3321
3496.5	534	35859	1.03	226	244	65	291	4580
3497.0	651	48188	1.03	240	257	58	298	6000
3497.5	774	62401	1.03	252	270	52	304	7585
3498.0	903	78368	1.03	264	282	45	310	9326
3498.5	1038	96108	1.03	277	294	39	316	11223
3499.0	1180	115642	1.04	289	307	32	321	13281
3499.5	1327	136997	1.04	301	319	26	327	15501
3500.0	1481	160200	1.04	313	331	19	333	17886
3500.5	1640	185283	1.04	326	343	13	339	20439
3501.0	1806	212275	1.05	338	356	6	344	23163
3501.5	1978	241284	1.05	350	368	0	350	26073

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CROSS-SECTION PROPERTIES FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY CUL A-0  
 SECID=M AT DISTANCE= 2653 PART 1 OF 1  
 \*\*\* FLOODWAY ANALYSIS \*\*\* 100 YR FLOOD M-0

WS	A	K	ALPHA	B	P	LEW	REW	QC
3492.0	44	1838	1.00	21	23	74	95	355
3492.5	55	2518	1.00	23	25	73	96	477
3493.0	67	3275	1.00	26	28	72	98	611
3493.5	90	2697	1.00	75	77	71	188	558
3494.0	140	4165	1.00	118	121	70	188	861
3494.5	199	7451	1.00	118	122	69	188	1459
3495.0	258	11443	1.00	119	123	69	188	2155
3495.5	316	16074	1.00	119	124	68	188	2937
3496.0	377	21284	1.00	120	126	68	188	3795
3496.5	438	27006	1.00	121	127	67	188	4719
3497.0	499	33254	1.00	122	129	66	188	5711
3497.5	560	40006	1.00	123	131	64	188	6767
3498.0	622	47251	1.00	125	133	63	188	7887
3498.5	685	54968	1.00	126	134	62	188	9067
3499.0	748	63140	1.00	127	136	61	188	10305
3499.5	811	71754	1.00	128	138	60	188	11599
3500.0	875	80981	1.00	128	139	60	188	12986
3500.5	939	90645	1.00	128	140	60	188	14435
3501.0	1003	100683	1.00	128	141	60	188	15934
3501.5	1067	111080	1.00	128	142	60	188	17482
3501.7	1093	115335	1.00	128	142	60	188	18114

CROSS-SECTION PROPERTIES FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY CUL A-0  
 SECID=N AT DISTANCE= 2838 PART 1 OF 2  
 \*\*\* FLOODWAY ANALYSIS \*\*\* 100 YR FLOOD M-0

WS	A	K	ALPHA	B	P	LEW	REW	QC
3492.0	12	333	1.00	16	16	123	138	60
3492.5	21	716	1.00	19	19	122	140	123
3493.0	31	1251	1.00	22	22	121	143	207
3493.5	42	1953	1.00	25	26	120	145	314
3494.0	59	2662	1.00	36	38	119	156	431
3494.5	78	4067	1.00	37	39	118	156	638
3495.0	97	5693	1.00	38	41	118	156	873
3495.5	116	7523	1.00	39	42	117	156	1134
3496.0	135	9546	1.00	40	44	116	156	1420
3496.5	155	11809	1.00	40	45	116	156	1743
3497.0	175	14218	1.00	40	46	116	156	2087
3497.5	195	16759	1.00	40	47	116	156	2452
3498.0	215	19421	1.00	40	48	116	156	2835
3498.5	235	22192	1.00	40	49	116	156	3237
3499.0	255	25065	1.00	40	50	116	156	3656
3499.5	274	28030	1.00	40	51	116	156	4092
3500.0	294	31082	1.00	40	52	116	156	4544

CROSS-SECTION PROPERTIES FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY CUL A-0  
 SECID=N AT DISTANCE= 2838 PART 2 OF 2  
 \*\*\* FLOODWAY ANALYSIS \*\*\* 100 YR FLOOD M-0

WS	A	K	ALPHA	B	P	LEW	REW	QC
3500.5	314	34214	1.00	40	53	116	156	5011
3501.0	334	37420	1.00	40	54	116	156	5494
3501.5	354	40695	1.00	40	55	116	156	5991
3502.0	374	44035	1.00	40	56	116	156	6502
3502.5	393	47436	1.00	40	57	116	156	7027
3503.0	413	50893	1.00	40	58	116	156	7565

CROSS-SECTION PROPERTIES FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY CUL A-0  
 SECID=0 AT DISTANCE= 3055 PART 1 OF 1  
 \*\*\* FLOODWAY ANALYSIS \*\*\* 100 YR FLOOD M-0

WS	A	K	ALPHA	B	P	LEW	REW	QC
3495.0	18	578	1.00	18	18	133	151	101
3495.5	28	1023	1.00	24	25	130	154	174
3496.0	42	1688	1.00	30	31	128	158	279
3496.5	58	2679	1.00	34	35	126	159	428
3497.0	75	3928	1.00	37	38	124	161	610
3497.5	95	5424	1.00	40	41	122	162	823
3498.0	115	7177	1.00	43	45	120	163	1067
3498.5	138	9240	1.00	46	48	118	164	1350
3499.0	162	11487	1.00	50	51	115	165	1656
3499.5	188	13681	1.00	56	58	110	166	1959
3500.0	217	16218	1.00	62	64	105	167	2305
3500.5	250	19195	1.00	69	71	100	169	2707
3501.0	286	22590	1.00	75	78	95	170	3161
3501.5	325	26639	1.00	81	83	89	170	3701
3502.0	366	31136	1.00	86	89	84	170	4296
3502.5	411	36339	1.00	90	94	80	170	4975
3503.0	456	42911	1.00	90	95	80	170	5815
3503.5	501	49856	1.00	90	96	80	170	6697
3504.0	546	57150	1.00	90	97	80	170	7620

USGS STEP-BACKWATER PROGRAM - VERSION 76.170 \*\*\* PAGE COUNT= 7,DATE= 2/14/77

PAGE 1 OF PROFILE NOTES FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY A-D  
INITIAL VALUES ARE: Q = 430. H = 3469.14

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

DUMMY,KU/KD < 0.7 OR > 1.4

,USED COMPUTED WSU

10 yr

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WATER-SURFACE PROFILE FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY A-D

PAGE 1 OF 1

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SECID	AT	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV /	HV /	HF /	HE /	EG /	V /	FN /	ACC *ID*
A	AT	0 /	0 /	430. /	121. /	3183. /	1.99 / 48. / 151.
→ 3469.14 /	0.21 /			3469.35 /	3.55 /	0.58 /	*IS*
B	AT	165 /	165 /	430. /	64. /	2871. /	1.15 / 42. / 126.
→ 3472.19 <sup>5</sup> /	0.81 /	3.34 /	0.30 /	3473.00 /	6.74 /	0.86 /	0.010 *XS*
C	AT	368 /	203 /	430. /	66. /	3366. /	1.20 / 12. / 72.
→ 3476.11 /	0.79 /	3.88 /	0.0 /	3476.90 /	6.51 /	0.80 /	0.015 *XS*
DUMMY	AT	470 /	102 /	430. /	136. /	5756. /	1.44 / 23. / 77.
3477.65 /	0.22 /	0.97 /	0.0 /	3477.88 /	3.17 /	0.38 /	0.001 *XS*
D	AT	598 /	128 /	430. /	128. /	5334. /	1.42 / 23. / 76.
3478.40 /	0.25 /	0.77 /	0.01 /	3478.65 /	3.36 /	0.40 /	-0.009 *XS*

Starting Elev. based  
on hand computations  
using critical depth at  
section C.

Hand Computed Elev. →

Used Critical depth  
= 2476.09 →

↓  
Not used

END OF THIS PROFILE

Used hand comp.  
where one hand computation

USGS STEP-BACKWATER PROGRAM - VERSION 76.170 \*\*\* PAGE COUNT= 5. DATE= 2/14/77

PAGE 1 OF PROFILE NOTES FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY C-D  
INITIAL VALUES ARE: Q = 430. H = 3476.09

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

DUMMY, KU/KD < 0.7 OR > 1.4

, USED COMPUTED WSU



10 yrs

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WATER-SURFACE PROFILE FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY C-D

PAGE 1 OF 1

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SECID	AT DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW	WS ELEV	HV	HF	HE	EG	V	FN	ACC	*ID*
C	AT	368	0	430.	65.	3312.	1.19	13.	72.								
	3476.09	0.81		3476.90	6.61	0.81											*IS*
DUMMY	AT	470	102	430.	136.	5785.	1.44	23.	77.								
	3477.66	0.22	0.98	0.0	3477.89	3.15	0.37	0.001									*XS*
D	AT	598	128	430.	128.	5361.	1.42	23.	76.								
	3478.41	0.25	0.76	0.01	3478.66	3.35	0.40	-0.001									*XS*

Critical Starting →

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 76.170 \*\*\* PAGE COUNT= 6 DATE= 2/14/77

PAGE 1 OF PROFILE NOTES FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY E-CUL 2  
INITIAL VALUES ARE: Q = 430. H = 3479.13

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

F 1.7 OR > 1.4

,USED COMPUTED WSU

CUL 2,WS NOT FOUND BETWEEN

,LO = 3480.26 HI = 3489.40

,USED DEL = 0.25

CUL 2,WS NOT FOUND BETWEEN

,LO = 3480.26 HI = 3489.40

,USED LOWER WS

CUL 2,WS NOT FOUND

,ABORTED PROFILE

10 yr

=====

WATER-SURFACE PROFILE FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY E-CUL: 2  
PAGE 1 OF 1

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SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW	WS ELEV	HV	HF	HE	EG	V	FN	ACC	*ID*
E	APP	AT	676	/	0	/	430.	/	280.	/	13380.	/	1.99	/	79.	/	210.	
			3479.13	/	0.07	/		/	3479.20	/	1.54	/	0.25	/		/		SIS*
F	AT	1260	/	584	/	430.	/	75.	/	5045.	/	1.02	/	120.	/	156.		
			3480.51	/	0.52	/	1.60	/	0.22	/	3481.03	/	5.73	/	0.64	/	0.004	*XS*

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 76.170 \*\*\* PAGE COUNT= 7 DATE= 2/14/77

PAGE 1 OF PROFILE NOTES FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY CUL 2-J  
INITIAL VALUES ARE: Q = 430. H = 3484.36

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

G ,KU/KD < 0.7 OR > 1.4

USED COMPUTED WSU

I ,KU/KD < 0.7 OR > 1.4

USED COMPUTED WSU

10 YR

=====

WATER-SURFACE PROFILE FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY CUL 2-J

PAGE 1 OF 1

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SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID	
CUL 2	AT	1290	0	430.	133.	6042.	2.84	79.	225.
3484.36		0.46			3484.82	3.23	0.47		*IS*
G	AT	1328	38	430.	449.	29525.	1.42	12.	232.
3484.86		0.02	0.04	0.0	3484.88	0.96	0.10	0.019	*XS*
H	AT	1433	105	430.	434.	25779.	2.78	6.	237.
3484.86		0.04	0.03	0.01	3484.90	0.99	0.16	-0.015	*XS*
I	AT	1798	365	430.	90.	6282.	1.00	30.	100.
3485.11		0.35	0.42	0.16	3485.46	4.76	0.51	-0.012	*XS*
J	AT	1895	97	430.	71.	4525.	1.06	196.	228.
3485.61		0.61	0.63	0.13	3486.22	6.09	0.66	-0.001	*XS*

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 76.170 \*\*\* PAGE COUNT= 7,DATE= 2/14/77

PAGE 1 OF PROFILE NOTES FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY K-CUL T  
INITIAL VALUES ARE: Q = 345. H = 3486.44

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

CUL T,WS NOT FOUND BETWEEN

,LO = 3490.00 HI = 3501.50

,USED DEL = 0.25

CUL T,WS NOT FOUND BETWEEN

,LO = 3490.00 HI = 3501.50

,USED LOWER WS

CUL T,WS NOT FOUND

,ABORTED PROFILE

10 yr

=====

WATER-SURFACE PROFILE FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY K-CUL T

PAGE 1 OF 1

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SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LFW	REW
WS ELEV		HV	HF	HE	EG	V	FN	ACC	*ID*
K	AT	1996	0	345.	73.	4381.	1.00	95.	122.
3486.44		0.35			3486.79	4.73	0.51		*IS*
L	AT	2530	534	345.	67.	4024.	1.00	42.	66.
3490.02		0.41	3.61	0.03	3490.43	5.13	0.55	0.003	*XS*

1996  
1295  
101

END OF THIS PROFILE

3



USGS STEP-BACKWATER PROGRAM -- VERSION 76.170 \*\*\* PAGE COUNT= 13,DATE= 2/14/77

PAGE 1 OF PROFILE NOTES FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY K-CUL T  
INITIAL VALUES ARE: Q = 890. H = 3490.07

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

L ,KU/KD < 0.7 OR > 1.4

CUL T,WS NOT FOUND BETWEEN

,LO = 3492.16 HI = 3501.50

,USED COMPUTED WSU

CUL T,WS NOT FOUND BETWEEN

,LO = 3492.16 HI = 3501.50

,USED DEL = 0.25

CUL T,WS NOT FOUND

,USED LOWER WS

,ABORTED PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 76.170 \*\*\* PAGE COUNT= 8, DATE= 2/14/77

PAGE 1 OF PROFILE NOTES FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY CUL A-0  
INITIAL VALUES ARE: Q = 345. H = 3494.02

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

M ,KU/KD < 0.7 OR > 1.4

,USED COMPUTED WSU

N ,KU/KD < 0.7 OR > 1.4

,USED COMPUTED WSU

O ,KU/KD < 0.7 OR > 1.4

,USED COMPUTED WSU

10 YR

=====

WATER-SURFACE PROFILE FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY CUL A-0  
PAGE 1 OF 1

=====

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW						
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID*							
CUL A	AT	2633	0	345.	95.	3540.	2.02	74.	253.						
3494.02	/	0.42	/	3494.44	/	3.65	/	0.61	*IS*						
M	AT	2653	20	345.	341.	11586.	1.00	69.	311.						
3494.48	/	0.02	/	0.06	/	0.0	/	3494.50	/	1.01	/	0.15	/	0.000	*XS*
N	AT	2838	185	345.	142.	5210.	1.00	118.	239.						
3494.81	/	0.09	/	0.36	/	0.04	/	3494.90	/	2.42	/	0.39	/	0.002	*XS*
O	AT	3055	217	300.	54.	2449.	1.00	126.	159.						
3496.40	/	0.48	/	1.77	/	0.19	/	3496.87	/	5.54	/	0.76	/	0.009	*XS*

=====

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 76.170 \*\*\* PAGE COUNT= 9. DATE= 2/14/77

PAGE 1 OF PROFILE NOTES FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY A-D  
INITIAL VALUES ARE: Q = 045. H = 3469.71

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

DUMMY, KU/KD < 0.7 OR > 1.4

•USED COMPUTED WSU

50 YR

=====
WATER-SURFACE PROFILE FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY A-D
PAGE 1 OF 1
=====

Table with columns: SECID, AT, WS ELEV, HV, HF, HE, EG, V, FN, ACC, LEW, REW, ID. Rows include A, B, C, DUMMY, and D.

Starting Elev. based on hand computation using critical depth at section C

Hand computed Elev. ->

Used critical depth = 3477.13

Not used

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 75.170 \*\*\* PAGE COUNT= 7, DATE= 2/14/77

PAGE 1 OF PROFILE NOTES FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY C-D  
INITIAL VALUES ARE: Q = 845. H = 3477.13

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

DUMMY, KU/KD < 0.7 OR > 1.4

.USED COMPUTED WSU

50 YR

=====
WATER-SURFACE PROFILE FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY C-D
PAGE 1 OF 1
=====

Table with columns: SECID, AT, DISTANCE, LENGTH, DISCHARGE, AREA, CONVEYANCE, ALPHA, LEW, REW, WS ELEV, HV, HF, HE, EG, V, FN, ACC, ID. Rows include C, DUMMY AT, and D.

Critical Starting ->

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 76.170 \*\*\* PAGE COUNT= 8, DATE= 2/14/77

PAGE 1 OF PROFILE NOTES FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY, E-CUL 2  
INITIAL VALUES ARE: Q = 845, H = 3481.35

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

F, KU/KD < 0.7 OR > 1.4

CUL 2, WS NOT FOUND BETWEEN

,LO = 3481.75 HI = 3489.40

,USED COMPUTED WSU

CUL 2, WS NOT FOUND BETWEEN

,LO = 3481.75 HI = 3489.40

,USED DEL = 0.25

CUL 2, WS NOT FOUND

,USED LOWER WS

,ABORTED PROFILE



50yr

USGS STEP-BACKWATER PROGRAM - VERSION 76.170 \*\*\* PAGE COUNT= 9, DATE= 2/14/77

=====

WATER-SURFACE PROFILE FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY E-CUL 2

PAGE 1 OF 1

=====

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID*	
E APP	AT	676	0	845.	606.	38689.	1.63	64.	221.
3481.35		0.05			3481.40	1.39	0.12		*IS*
F	AT	1260	584	845.	186.	11838.	1.75	53.	216.
3482.00		0.56	0.91	0.26	3482.57	4.54	0.57	0.000	*XS*

=====

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 76.170 \*\*\* PAGE COUNT= 9, DATE= 2/14/77

PAGE 1 OF PROFILE NOTES FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY CUL 2-J  
INITIAL VALUES ARE: Q = 845. H = 3484.84

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

G , KU/KD < 0.7 OR > 1.4

, USED COMPUTED WSU

I , KU/KD < 0.7 OR > 1.4

, USED COMPUTED WSU

STO YR

USGS STEP-BACKWATER PROGRAM - VERSION 76.170 \*\*\* PAGE COUNT= 10 DATE= 2/14/77

=====

WATER-SURFACE PROFILE FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY CUL 2-J  
PAGE 1 OF 1

=====

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW							
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID*								
CUL 2	AT	1290	/	0	/	845.	/	210.	/	9664.	/	2.34	/	71.	/	244.
3484.84	/	0.59	/			3485.43	/	4.03	/	0.59	/					*IS*
G	AT	1328	/	38	/	845.	/	586.	/	41930.	/	1.31	/	10.	/	250.
3485.46	/	0.04	/	0.07	/	0.0	/	3485.50	/	1.44	/	0.15	/	-0.000	/	*XS*
H	AT	1433	/	105	/	845.	/	587.	/	36056.	/	2.62	/	3.	/	257.
3485.48	/	0.08	/	0.05	/	0.02	/	3485.57	/	1.44	/	0.22	/	-0.000	/	*XS*
I	AT	1798	/	365	/	845.	/	151.	/	9832.	/	1.47	/	-30.	/	138.
3485.91	/	0.71	/	0.74	/	0.31	/	3486.62	/	5.58	/	0.67	/	0.000	/	*XS*
J	AT	1895	/	97	/	845.	/	106.	/	7876.	/	1.12	/	188.	/	230.
3486.61	/	1.10	/	0.89	/	0.19	/	3487.70	/	7.94	/	0.80	/	-0.000	/	*XS*

=====

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 76.170 \*\*\* PAGE COUNT= 9, DATE= 2/14/77

PAGE 1 OF PROFILE NOTES FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY K-CUL T  
INITIAL VALUES ARE: Q = 710. H = 3488.94

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

L , KU/KD < 0.7 OR > 1.4

, USED COMPUTED WSU

CUL T, WS NOT FOUND BETWEEN

, LO = 3491.52 HI = 3501.50

, USED DEL = 0.25

CUL T, WS NOT FOUND BETWEEN

, LO = 3491.52 HI = 3501.50

, USED LOWER WS

CUL T, WS NOT FOUND

, ABORTED PROFILE

570 YR

USGS STEP-BACKWATER PROGRAM - VERSION 76.170 \*\*\* PAGE COUNT= 10, DATE= 2/14/77

=====

WATER-SURFACE PROFILE FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY K-CUL T  
PAGE 1 OF 1

=====

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID*	
K	AT	1996	0	710.	155.	11710.	1.00	91.	132.
3488.94		0.33			3489.27	4.58	0.42		*IS*
L	AT	2530	534	710.	118.	7814.	1.00	39.	77.
3491.77		0.56	2.94	0.12	3492.33	6.02	0.60	0.002	*XS*

=====

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 76.170 \*\*\* PAGE COUNT= 10, DATE= 2/14/77

PAGE 1 OF PROFILE NOTES FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY CUL A-0  
INITIAL VALUES ARE: Q = 710. H = 3494.43

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

M	, KU/KD < 0.7 OR > 1.4	, USED COMPUTED WSU
N	, KU/KD < 0.7 OR > 1.4	, USED COMPUTED WSU
O	, KU/KD < 0.7 OR > 1.4	, USED COMPUTED WSU

50 YR

USGS STEP-BACKWATER PROGRAM - VERSION 76.170 \*\*\* PAGE COUNT= 11, DATE= 2/14/77

=====

WATER-SURFACE PROFILE FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY CUL A-0  
PAGE 1 OF 1

=====

SECID	AT	DISTANCE/	LENGTH/	DISCHARGE/	AREA	/CONVEYANCE/	ALPHA/	LEW	/	REW						
WS ELEV		HV	HF	HE	EG	V	FN	ACC		*ID*						
CUL A	AT	2633	/	0	/	710.	/	146.	/	6054.	/	1.47	/	74.	/	259.
		3494.43	/	0.54	/		/	3494.97	/	4.88	/	0.77	/		/	*IS*
M	AT	2653	/	20	/	710.	/	475.	/	19517.	/	1.00	/	69.	/	321.
		3495.02	/	0.03	/	0.09	/	0.0	/	3495.06	/	1.49	/	0.19	/	0.000 *XS*
N	AT	2838	/	185	/	710.	/	225.	/	10245.	/	1.00	/	117.	/	255.
		3495.43	/	0.15	/	0.47	/	0.06	/	3495.59	/	3.15	/	0.44	/	0.003 *XS*
O	AT	3055	/	217	/	625.	/	82.	/	4447.	/	1.00	/	123.	/	161.
		3497.18	/	0.90	/	2.12	/	0.37	/	3498.08	/	7.61	/	0.91	/	0.001 *XS*

=====

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 76.170 \*\*\* PAGE COUNT= 11, DATE= 2/14/77

PAGE 1 OF PROFILE NOTES FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY A-D  
INITIAL VALUES ARE: Q = 1700. H = 3470.90

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

B , KU/KD < 0.7 OR > 1.4

, USED COMPUTED WSU

C , KU/KD < 0.7 OR > 1.4

, USED COMPUTED WSU



500 YR

=====
WATER-SURFACE PROFILE FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY A-D
PAGE 1 OF 1
=====

Table with columns: SECID, AT, DISTANCE, LENGTH, DISCHARGE, AREA, CONVEYANCE, ALPHA, LEW, REW, WS ELEV, HV, HF, HE, EG, V, FN, ACC, ID. Rows include sections A, B, C, DUMMY, and D.

Starting Elev. based on hand computations using critical depth at section C

Used sequent depth = 3475.00

Used critical depth = 3478.55

Not used

h\_c = 3474.28'

END OF THIS PROFILE

500 YR

USGS STEP-BACKWATER PROGRAM - VERSION 76.170 \*\*\* PAGE COUNT= 9. DATE= 2/14/77

=====
WATER-SURFACE PROFILE FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY C-D
PAGE 1 OF 1
=====

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

Critical Starting ->

C AT 368 / 0 / 1700. / 208. / 14145. / 1.50 / 2. / 71.
3478.55 / 1.55 / / 3480.10 / 8.16 / 0.88/ \*IS\*

DUMMY AT 470 / 102 / 1700. / 343. / 18587. / 1.63 / 9. / 90.
3480.60 / 0.62 / 1.12 / 0.0 / 3481.23 / 4.96 / 0.51 / -0.000 \*XS\*

D AT 598 / 128 / 1700. / 356. / 19539. / 1.63 / 8. / 90.
3481.67 / 0.58 / 1.02 / 0.0 / 3482.24 / 4.77 / 0.48 / -0.000 \*XS\*

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 76.170 \*\*\* PAGE COUNT= 10, DATE= 2/14/71

PAGE 1 OF PROFILE NOTES FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY E-CUL 2  
INITIAL VALUES ARE: Q = 1700. H = 3485.00

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

F , KU/KD < 0.7 OR > 1.4

, USED COMPUTED WSU

CUL 2, WS NOT FOUND BETWEEN

, LO = 3484.97 HI = 3489.40

, USED DEL = 0.25

CUL 2, WS NOT FOUND BETWEEN

, LO = 3484.97 HI = 3489.40

, USED LOWER WS

CUL 2, WS NOT FOUND

, ABORTED PROFILE

500 YR

USGS STEP-BACKWATER PROGRAM - VERSION 76.170 \*\*\* PAGE COUNT= 11,DATE= 2/14/77

=====

WATER-SURFACE PROFILE FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY E-CUL 2  
PAGE 1 OF 1

=====

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW							
WS ELEV		HV	HF	HE	EG	V	FN	ACC	*ID*							
E APP	AT	676	/	0	/	1700.	/	1260.	/	101820.	/	1.69	/	0.	/	230.
		3485.00	/	0.05	/		/	3485.05	/	1.35	/	0.10	/		/	*IS*
F	AT	1260	/	584	/	1700.	/	911.	/	68936.	/	1.66	/	12.	/	274.
		3485.22	/	0.09	/	0.24	/	0.02	/	3485.31	/	1.87	/	0.22	/	0.000 *XS*

=====

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 76.170 \*\*\* PAGE COUNT= 11, DATE= 2/14/77

PAGE 1 OF PROFILE NOTES FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY CUL 2-J  
INITIAL VALUES ARE: Q = 1700. H = 3485.43

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

G	,KU/KD < 0.7 OR > 1.4	,USED COMPUTED WSU
I	,KU/KD < 0.7 OR > 1.4	,USED COMPUTED WSU
J	,KU/KD < 0.7 OR > 1.4	,USED COMPUTED WSU

500 YR

USGS STEP-BACKWATER PROGRAM - VERSION 76.170 \*\*\* PAGE COUNT= 12,DATE= 2/14/77

=====

WATER-SURFACE PROFILE FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY CUL 2-J  
PAGE 1 OF 1

=====

	SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW							
			WS ELEV	HV	HF	HE	EG	V	FN	ACC	*ID*						
	CUL 2	AT	1290	/	0	/	1700.	/	321.	/	15982.	/	1.83	/	61.	/	266.
			3485.43	/	0.80	/		/	3486.23	/	5.30	/	0.03	/		/	*IS*
	G	AT	1328	/	38	/	1700.	/	786.	/	62375.	/	1.22	/	8.	/	273.
			3486.25	/	0.09	/	0.11	/	0.0	/	3486.34	/	2.16	/	0.21	/	-0.001 *XS*
	H	AT	1433	/	105	/	1700.	/	803.	/	52961.	/	2.34	/	-2.	/	271.
			3486.30	/	0.16	/	0.09	/	0.04	/	3486.47	/	2.12	/	0.15	/	-0.000 *XS*
	I	AT	1798	/	365	/	1700.	/	330.	/	19222.	/	2.19	/	-87.	/	152.
			3486.97	/	0.90	/	1.04	/	0.37	/	3487.87	/	5.15	/	0.72	/	-0.002 *XS*
	J	AT	1895	/	97	/	1700.	/	174.	/	12399.	/	1.45	/	83.	/	232.
			3487.52	/	2.15	/	1.18	/	0.62	/	3489.67	/	9.77	/	1.08	/	-0.003 *XS*

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 76.170 \*\*\* PAGE COUNT= 11, DATE= 2/14/77

PAGE 1 OF PROFILE NOTES FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY K-CUL T  
INITIAL VALUES ARE: Q = 1450. H = 3494.50

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

CUL T, WS NOT FOUND BETWEEN

,LO = 3494.46 HI = 3501.50

,USED DEL = 0.25

CUL T, WS NOT FOUND BETWEEN

,LO = 3494.46 HI = 3501.50

,USED LOWER WS

CUL T, WS NOT FOUND

,ABORTED PROFILE

500 YR

USGS STEP-BACKWATER PROGRAM - VERSION 76.170 \*\*\* PAGE COUNT= 12 DATE= 2/14/77

=====

WATER-SURFACE PROFILE FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY K-CUL T

PAGE 1 OF 1

=====

	SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
	WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID	
K	AT	1996	0	1450.	922.	86743.	1.41	-25.	211.	
	3494.50	0.05			3494.55	1.57	0.13		*IS*	
L	AT	2530	534	1450.	788.	61781.	1.04	32.	325.	
	3494.71	0.05	0.21	0.00	3494.76	1.84	0.20	0.000	*XS*	

=====

END OF THIS PROFILE



USGS STEP-BACKWATER PROGRAM - VERSION 76.170 \*\*\* PAGE COUNT= 12, DATE= 2/14/77

PAGE 1 OF PROFILE NOTES FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY CUL A-0  
INITIAL VALUES ARE: Q = 1450. H = 3495.01

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

M , KU/KD < 0.7 OR > 1.4

, USED COMPUTED WSU

N , KU/KD < 0.7 OR > 1.4

, USED COMPUTED WSU

O , KU/KD < 0.7 OR > 1.4

, USED COMPUTED WSU

500 YR

USGS STEP-BACKWATER PROGRAM - VERSION 76.170 \*\*\* PAGE COUNT= 13 DATE= 2/14/77

=====

WATER-SURFACE PROFILE FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY CUL A-0

PAGE 1 OF 1

=====

SECID	AT DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW							
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID*							
CUL A	AT 2633	/	0	/	1450.	/	233.	/	11137.	/	1.17	/	74.	/	268.
	3495.01	/	0.71	/		/	3495.72	/	6.23	/	0.90	/		/	*IS*
M	AT 2653	/	20	/	1450.	/	663.	/	33561.	/	1.00	/	68.	/	324.
	3495.76	/	0.07	/	0.11	/	0.0	/	3495.83	/	2.19	/	0.24	/	0.002 *XS*
N	AT 2838	/	185	/	1450.	/	346.	/	18775.	/	1.00	/	102.	/	266.
	3496.26	/	0.27	/	0.62	/	0.10	/	3496.53	/	4.19	/	0.51	/	-0.019 *XS*
O	AT 3055	/	217	/	1310.	/	127.	/	8215.	/	1.00	/	119.	/	163.
	3498.26	/	1.66	/	2.68	/	0.69	/	3499.92	/	10.33	/	1.08	/	0.013 *XS*

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 76.170 \*\*\* PAGE COUNT= 13. DATE= 2/14/77

PAGE 1 OF PROFILE NOTES FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY A-D  
INITIAL VALUES ARE: Q = 1050. H = 3470.00

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

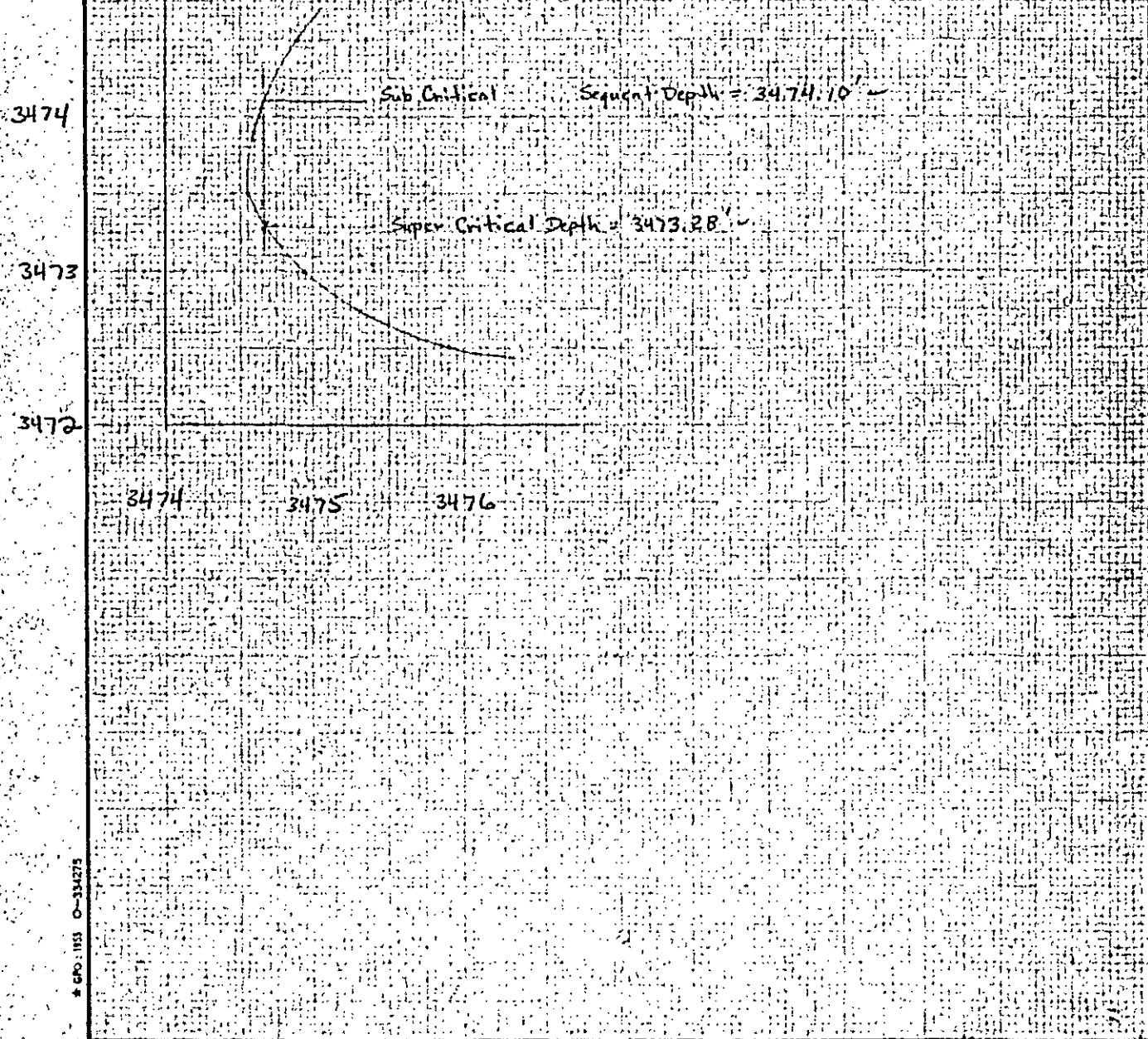
DUMMY, KU/KD < 0.7 OR > 1.4

, USED COMPUTED WSU

100 yr discharge = 1050 cfs

Section D

Water Surface Elev	Area	Alpha	$\frac{P}{25A^2}$	Elev. $\frac{P}{25A^2}$
3472.5	81	1.7	3.40	3475.90
3473.0	119	1.6	1.94	3474.94
3473.5	164	1.65	1.05	3474.55
3474.0	210	1.61	0.63	3474.63
3474.5	257	1.55	0.49	3474.90



\* GPO: 1955 O-334275

100 YR

=====
WATER-SURFACE PROFILE FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY A-D
PAGE 1 OF 1
=====

Table with columns: SECID AT DISTANCE, LENGTH/DISCHARGE, AREA /CONVEYANCE, ALPHA, LEW, REW. Rows include A, B, C, DUMMY AT, and D.

Starting Elev. based on hand computations using critical depth at section C

Used sequent depth = 3474.10

Used critical depth = 3477.49

Not Used

hc = 3473.60

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 76.170 \*\*\* PAGE COUNT= 10 DATE= 2/14/77

PAGE 1 OF PROFILE NOTES FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY C-D  
INITIAL VALUES ARE: Q = 1050. H = 3477.49

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

DUMMY, KU/KD < 0.7 OR > 1.4

.USED COMPUTED WSU

100 YR

USGS STEP-BACKWATER PROGRAM VERSION 76.170 \*\*\* PAGE COUNT= 11, DATE= 2/14/77

=====

WATER-SURFACE PROFILE FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY C-D

PAGE 1 OF 1

=====

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

=====

Critical Starting →

C AT 368 / 0 / 1050. / 141. / 8578. / 1.43 / 5. / 71.  
3477.49 / 1.24 / / 3478.73 / 7.47 / 0.86 / \*IS\*

=====

DUMMY AT 470 / 102 / 1050. / 247. / 12150. / 1.60 / 15. / 87.  
3479.36 / 0.45 / 1.08 / 0.0 / 3479.81 / 4.25 / 0.46 / 0.000 \*XS\*

=====

D AT 598 / 128 / 1050. / 251. / 12402. / 1.61 / 14. / 87.  
3480.31 / 0.44 / 0.94 / 0.0 / 3480.75 / 4.18 / 0.45 / 0.003 \*XS\*

=====

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 76.170 \*\*\* PAGE COUNT= 12,DATE= 2/14/77

PAGE 1 OF PROFILE NOTES FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY E-CUL 2  
INITIAL VALUES ARE: Q = 1050. H = 3482.31

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

F ,KU/KD < 0.7 OR > 1.4

,USED COMPUTED WSU

CUL 2,WS NOT FOUND BETWEEN

,LO = 3482.52 HI = 3489.40

,USED DEL = 0.25

CUL 2,WS NOT FOUND BETWEEN

,LO = 3482.52 HI = 3489.40

,USED LOWER WS

CUL 2,WS NOT FOUND

,ABORTED PROFILE



100 YR

USGS STEP-BACKWATER PROGRAM - VERSION 76.170 \*\*\* PAGE COUNT= 13,DATE= 2/14/77

=====

WATER-SURFACE PROFILE FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY E-CUL: 2  
PAGE 1 OF 1

=====

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW									
WS ELEV		HV	HF	HE	EG	V	FN	ACC	*ID*									
E	APP	AT	676	/	0	/	1050.	/	759.	/	54098.	/	1.53	/	62.	/	224.	
			3482.31	/	0.05	/		/	3482.36	/	1.38	/	0.11	/		/	*IS*	
F		AT	1260	/	584	/	1050.	/	325.	/	19704.	/	2.05	/	35.	/	235.	
			3482.77	/	0.33	/	0.60	/	0.14	/	3483.10	/	3.23	/	0.44	/	-0.000	*XS*

=====

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 76.170 \*\*\* PAGE COUNT= 13,DATE= 2/14/77

PAGE 1 OF PROFILE NOTES FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY CUL 2--1  
INITIAL VALUES ARE: Q = 1050. H = 3485.00

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

G ,KU/KD < 0.7 OR > 1.4

,USED COMPUTED WSU

I ,KU/KD < 0.7 OR > 1.4

,USED COMPUTED WSU

100 YR

USGS STEP-BACKWATER PROGRAM - VERSION 76.170 \*\*\* PAGE COUNT= 14, DATE= 2/14/77

=====
WATER-SURFACE PROFILE FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY CUL 2-J
PAGE 1 OF 1
=====

Table with columns: SECID, AT, DISTANCE, LENGTH, DISCHARGE, AREA, CONVEYANCE, ALPHA, LEW, REW, WS ELEV, HV, HF, HE, EG, V, FN, ACC, ID. Rows include CUL 2 AT, G, H, I, J with various numerical values.

Handwritten annotations: C, A, H, J

Handwritten numbers: 104, 125

END OF THIS PROFILE

100 YR

USGS STEP-BACKWATER PROGRAM - VERSION 76.170 \*\*\* PAGE COUNT= 14 DATE= 2/14/77

=====

WATER-SURFACE PROFILE FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY K-CUL T

PAGE 1 OF 1

=====

SECID	AT	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW	WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID
K	AT	1996 /	0 /	890. /	211. /	16959. /	1.04 /	88. /	174.							
		3490.07 /	0.29 /		3490.36 /	4.21 /	0.37 /									*IS*
L	AT	2530 /	534 /	890. /	162. /	10088. /	1.18 /	38. /	270.							
		3492.41 /	0.55 /	2.47 /	0.13 /	3492.96 /	5.48 /	0.59 /	0.001							*XS*

END OF THIS PROFILE

101

USGS STEP-BACKWATER PROGRAM - VERSION 76.170 \*\*\* PAGE COUNT= 14,DATE= 2/14/77

PAGE 1 OF PROFILE NOTES FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY CUL A-0  
INITIAL VALUES ARE: Q = 890. H = 3494.60

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

M ,KU/KD < 0.7 OR > 1.4

,USED COMPUTED WSU

N ,KU/KD < 0.7 OR > 1.4

,USED COMPUTED WSU

O ,KU/KD < 0.7 OR > 1.4

,USED COMPUTED WSU

100 YR

USGS STEP-BACKWATER PROGRAM - VERSION 76.170 \*\*\* PAGE COUNT= 15, DATE= 2/14/77

=====
WATER-SURFACE PROFILE FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY CUL A-0
PAGE 1 OF 1
=====

Table with columns: SECID, AT, DISTANCE, LENGTH, DISCHARGE, AREA, CONVEYANCE, ALPHA, LEW, REW, WS ELEV, HV, HF, HE, EG, V, FN, ACC, ID. Rows include CUL A AT, M, N, and O.

END OF THIS PROFILE

Handwritten notes: 26 37, 2530, 03

USGS STEP-BACKWATER PROGRAM - VERSION 76.170 \*\*\* PAGE COUNT= 17. DATE= 2/14/77

PAGE 1 OF PROFILE NOTES FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY E-CUL 2  
INITIAL VALUES ARE: Q = 1050. H = 3482.31

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

F , KU/KD < 0.7 OR > 1.4

, USED COMPUTED WSU

=====

WATER-SURFACE PROFILE FOR: MIDDLE FORK SLOWING ROCK FLOODS&FLOODWAY E-CUL 2  
PAGE 1 OF 1

\*\*\* FLOODWAY ANALYSIS \*\*\* 100 YR FLOOD E-CUL 2

=====

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID	
E APP AT	676	0	1050.	619.	54086.	1.42	102.	192.	
3483.31	0.06			3483.37	1.70	0.17		*IS*	
F AT	1260	584	1050.	187.	19299.	1.07	122.	158.	
3483.70	0.52	0.62	0.23	3484.22	5.60	0.44	-0.000	*XS*	

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END OF THIS PROFILE



USGS STEP-BACKWATER PROGRAM - VERSION 76.170 \*\*\* PAGE COUNT= 11,DATE= 2/17/77

PAGE 1 OF PROFILE NOTES FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY CUL 2-J  
INITIAL VALUES ARE: Q = 1050. H = 3485.68

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

I ,KU/KD < 0.7 OR > 1.4

,USED COMPUTED WSU

J ,KU/KD < 0.7 OR > 1.4

,USED COMPUTED WSU

=====

WATER-SURFACE PROFILE FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY CUL 2-J

PAGE 1 OF 1

\*\*\* FLOODWAY ANALYSIS \*\*\* 100 YR FLOOD G-J

=====

SECID	AT	DISCHARGE	LENGTH	AREA	CONVEYANCE	ALPHA	LEW	REW	WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID
G	1328	0	1050.	526.	47245.	1.04	37.	168.	3486.68	0.06			3486.74	1.99	0.18		*IS*
H	1433	105	1050.	459.	40075.	1.89	43.	139.	3486.68	0.15	0.06	0.04	3486.83	2.29	0.26	-0.017	*XS*
I	1798	365	1050.	161.	15001.	1.00	28.	64.	3487.10	0.66	0.67	0.25	3487.76	6.50	0.54	0.000	*XS*
J	1895	97	1050.	113.	9851.	1.00	205.	232.	3487.48	1.34	0.72	0.34	3488.82	9.27	0.79	-0.001	*XS*

=====

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 76.170 \*\*\* PAGE COUNT= 18 DATE= 2/14/77

PAGE 1 OF PROFILE NOTES FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY K-CUL T  
INITIAL VALUES ARE: Q = 890. H = 3490.07

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

L ,KU/KD < 0.7 OR > 1.4

,USED COMPUTED WSU

=====

WATER-SURFACE PROFILE FOR: MIDDLE FORK BLOWING ROCK- FLOODWAY K-L

PAGE 1 OF 1

\*\*\* FLOODWAY ANALYSIS \*\*\* 100 YR FLOOD K-L

=====

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

-----

K AT 1996 / 0 / 890. / 256. / 23440. / 1.00 / 88. / 137.  
3491.07 / 0.19 / / 3491.26 / 3.48 / 0.27 / \*IS\*

-----

L AT 2530 / 534 / 890. / 153. / 10710. / 1.00 / 38. / 83.  
3492.59 / 0.53 / 1.68 / 0.17 / 3493.11 / 5.82 / 0.56 / 0.001 \*XS\*

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END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 76.170 \*\*\* PAGE COUNT= 9, DATE= 2/17/77

PAGE 1 OF PROFILE NOTES FOR: MIDDLE FORK BLOWING ROCK-FLOODS&FLOODWAY CUL A-0  
INITIAL VALUES ARE: Q = 890. H = 3495.23

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

N , KU/KD < 0.7 OR > 1.4

USED COMPUTED WSU

0 , KU/KD < 0.7 OR > 1.4

USED COMPUTED WSU

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WATER-SURFACE PROFILE FOR: MIDDLE FORK BLOWING ROCK      FLOODWAY      M-0
PAGE 1 OF 1
*** FLOODWAY ANALYSIS *** 100 YR FLOOD      M-0
=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
M      AT      2653 /      0 /      890. /      393. /      23226. / 1.00 /      69. / 184.
      3496.23 /      0.08 /      /      3496.31 /      2.27 /      0.22/      *IS*
-----
N      AT      2838 /      185 /      890. /      157. /      12064. / 1.00 /      117. / 156.
      3496.54 /      0.50 /      0.52 /      0.21 / 3497.04 /      5.67 /      0.50 / -0.000 *XS*
-----
O      AT      3055 /      217 /      790. /      118. /      7730. / 1.00 /      122. / 162.
      3498.09 /      0.70 /      1.64 /      0.10 / 3498.79 /      6.69 /      0.69 / 0.002 *XS*
=====

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END OF THIS PROFILE