

PAGE 1 OF PROFILE NOTES FOR MUTTON CREEK FLOODWAY FIRST  
PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

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

C	I KU/KD < 0.7 OR > 1.4		ALERTED USER
D	I KU/KD < 0.7 OR > 1.4		ALERTED USER

WATER-SURFACE PROFILE FOR: MUTTON CREEK FLOODWAY FIRST

PAGE 1 OF 1, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

\*\*\* FLOODWAY ANALYSIS \*\*\* FIRST TRY

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID	
B	AT	512	0	1200.	1220.	175952.	1.09	35.	190.
3093.00	0.02				3093.02	0.98	0.06		*IS*
C	AT	900	388	1200.	589.	60650.	1.08	182.	287.
3093.03	0.07	0.05	0.03	3093.10	2.04	0.15	0.000		*XS*
D	AT	1760	860	1200.	130.	8639.	1.00	54.	98.
3094.76	1.33	2.36	0.63	3096.09	9.25	0.95	-0.001		*XS*

100 YR LIMITS OK

END OF THIS PROFILE



SUMMARY OF ENCROACHMENTS FOR: MUTTON CREEK FLOODWAY FIRST  
 RESULTS OF THE FLOODWAY ANALYSIS ENTITLED FIRST TRY (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	FW TYPE	FW OPTION	ENCROACHMENT		SURCHARGE		CHANNEL WIDTH	
				LEFT	RIGHT	IDEAL	ACTUAL	NATURAL	FLOODWAY
B	300	1	VHD	YES	CONS	1.00	1.00	*****	155
C	400	0	VHD	CONS	CONS	1.00	1.00	*****	105
D	500	0	HOR	YES	YES	*****	0.09	*****	44





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

	1	2	3	4	5	6	7	8			
5	1606	157	2 30076	158	2 30070	162	2 30072	164	2 30070	166	2 30076
5	1607	167	2 30094	185	2 30103	200	3 30114	243	3 30110	291	3 30111
5	1608	300	3 30113	341	3 30124	350	3 30148	356	3 30172		
6	1610	1	2 035 035	2	5 050 035	1	2 045 045				
3	1650	4-2	0 16 3 3012		8700 99 99						
5	1652	0	1 30223	40	1 30145	50	1 30144	58	2 30141	59	2 30131
5	1653	62	2 30110	65	2 30110	69	2 30116	70	3 30142	77	3 30148
5	1654	100	3 30151	148	3 30139	200	3 30146	215	3 30153	235	3 30173
5	1655	248	3 30223								
6	1660	1	2 040 035	1	2 050 050	1	2 045 040				
3	1700	N	0 19 3 3015		9110 99 99						
5	1705	0	1 30253	31	1 30208	49	1 30192	118	1 30182	145	1 30182
5	1706	180	1 30182	207	2 30185	217	2 30171	219	2 30147	220	2 30143
5	1707	222	2 30143	224	2 30144	225	2 30160	231	3 30182	279	3 30177
5	1708	300	3 30179	350	3 30198	394	3 30211	412	3 30250		
6	1710	1	2 045 035	1	2 045 045	1	2 045 035				
3	1800	O-TW	0 18 3 3020		9690 99 99						
5	1805	0	1 30310	22	1 30289	25	1 30288	35	1 30273	45	1 30270
5	1806	130	1 30251	200	1 30241	285	1 30221	287	2 30205	289	2 30198
5	1807	294	2 30199	304	2 30197	308	2 30202	311	3 30235	324	3 30229
5	1808	359	3 30253	383	3 30290	396	3 30321				
6	1810	1	2 035 035	1	5 045 035	1	2 035 035				
3	1900	BO OP	2 8 1 3019		9690		0 30235	3 0			
5	1905	0	1 30236	0	1 30214	3	1 30205	6	1 30195	10	1 30184
5	1906	21	1 30194	21	1 30234	0	-9 30236				
6	1910	1	2 050 050								
3	2000	ROAD	4 8 3 24		1 3		2 2 2				
5	2005	0	1 30310	100	1 30278	200	1 30260	300	1 30252	364	2 30250
5	2006	385	3 30249	400	3 30252	500	3 30315				
3	2100	P APP	5 22 3 3019		9736 1 3						
5	2105	0	1 30315	80	1 30267	120	1 30251	200	1 30241	250	1 30242
5	2106	300	1 30235	309	1 30237	320	1 30249	335	1 30239	339	2 30228
5	2107	341	2 30207	345	2 30185	349	2 30185	353	2 30186	354	2 30207
5	2108	360	3 30226	364	3 30238	385	3 30250	403	3 30255	415	3 30261
5	2109	420	3 30295	450	3 30312						
6	2110	1	2 050 040	2	4 050 080	1	2 055 055				
3	2150	P-2	0 19 3 3023		10080 99 99						
5	2155	-50	1 30351	0	1 30325	50	1 30299	100	1 30287	150	1 30285
5	2156	200	1 30278	250	1 30269	280	2 30261	283	2 30252	291	2 30243
5	2157	292	2 30229	296	2 30225	299	2 30224	302	2 30230	306	3 30262
5	2158	329	3 30263	346	3 30280	350	3 30285	378	3 30353		
6	2160	1	2 045 035	1	2 050 035	1	2 045 035				





INPUT SUMMARY FOR: MUTTON CREEK FLOODWAY FIRST

10 CROSS SECTIONS SPECIFIED (OR ASSUMED)

FOUND 3 TYPE 3 CARDS

KEPT 3 CROSS SECTIONS FOR EDITING

3 " " VALID FOR PROPERTY COMPUTATIONS

3 " " " " PROFILE " "

*Apply back stations*

PAGE 1 OF PROFILE NOTES FOR: MUTTON CREEK E-F FLOODWAY FIRST  
PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

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

C+4.0; TOL FAILURE BETWEEN WS = 3112.84 & WS = 3113.09; USED HIGHER WS

C+4.0; KU/KD < 0.7 OR > 1.4; ALERTED USER

D-4.0; KU/KD < 0.7 OR > 1.4; ALERTED USER

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



WATER-SURFACE PROFILE FOR: MUTTON CREEK E-F FLOODWAY FIRST

PAGE 1 OF 1, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

\*\*\* FLOODWAY ANALYSIS \*\*\* FIRST TRY

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
MS ELEV	HV	HF	HE	EG	V	FN	ACC	ID	
E	AT	2890	0	1200	218	12829	1.14	16	146
3113.09	0.54			3113.63	5.50	0.64			*IS*
C+4.0	AT	3213	323	1200	124	8121	1.07	80	130
3117.06	1.55	4.46	0.50	3118.60	9.66	0.99	0.006		*XS*
D-4.0	AT	3487	274	1200	232	14543	1.16	86	149
3121.47	0.48	3.34	0.0	3121.95	5.17	0.62	0.006		*XS*
F	AT	3810	323	1200	172	9244	1.11	87	142
3124.75	0.84	3.46	0.18	3125.59	6.98	0.95	0.004		*XS*

END OF THIS PROFILE

SUMMARY OF ENCROACHMENTS FOR: MUTTON CREEK E-F FLOODWAY FIRST  
 RESULTS OF THE FLOODWAY ANALYSIS ENTITLED FIRST TRY (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
E	600	1	HOR	YES	YES	*****	0.0	*****	130
C+4.0	620	0	VHD	YES	CONS	1.00	-0.18	*****	50
D-4.0	630	0	VHD	CONS	YES	1.00	0.97	*****	62
F	700	0	VHD	CONS	YES	1.00	0.50	*****	54









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

	1	2	3	4	5	6	7	8
...	5	0	5	0	5	0	5	0
1	1	MUTTON CREEK	E-F FLOODWAY	FIRST	4	1	02 99 10	
2	2	311309						
3	600	E	1 13	3 3110	2890	99 99		
4	601	1200						
5	605	0	1 31218	14 1 31146	17 1 31117	100 2 31120	102 2 31086	
5	606	104	2 31081	107 2 31083	113 2 31086	130 3 31122	200 3 31140	
5	607	221	3 31157	230 3 31168	242 3 31222			
6	610	1 2 035 035	1 2 045 045	1 2 035 035				
3	620	C+4.0 0	13 3 3114	3213	99 99			
5	622	0	1 31258	14 1 31186	17 1 31157	100 2 31160	102 2 31126	
5	623	104	2 31121	107 2 31123	113 2 31126	130 3 31162	200 3 31180	
5	624	221	3 31197	230 3 31208	242 3 31262			
6	626	1 2 035 035	1 2 045 045	1 2 035 035				
3	630	D-4.0 0	14 3 3117	3487	99 99			
5	632	0	1 31293	6 1 31245	10 1 31263	22 1 31258	76 1 31227	
5	633	83	2 31234	96 2 31157	102 2 31155	108 2 31157	111 3 31181	
5	634	141	3 31184	250 3 31198	275 3 31220	288 3 31293		
6	636	1 2 045 045	2 3 050 080	1 2 040 040				
3	700	F	0 14	3 3121	3810	99 99		
5	705	0	1 31333	6 1 31285	10 1 31303	22 1 31298	76 1 31267	
5	706	83	2 31274	96 2 31197	102 2 31195	108 2 31197	111 3 31221	
5	707	141	3 31224	250 3 31238	275 3 31260	288 3 31333		
6	710	1 2 045 045	2 3 050 080	1 2 040 040				

*Mutton Creek Floodway E-F OK*

INPUT SUMMARY FOR: MUTTON CREEK E-F FLOODWAY FIRST

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 PROFILE NOTES FOR: MUTTON CREEK 10,50,100,500 UP & DOWN B-F  
 PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

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

C	: KU/KD < 0.7 OR > 1.4	: ALERTEO USER
D	: WS TOO LOW	: USED WSMIN = WSC
B+4.5	: WS TOO LOW	: USED WSMIN = WSC
B+4.5	: WS NOT FOUND BETWEEN	: WS = 3097.59 & WS = 3109.50
B+4.5	: WS NOT FOUND	: USED DEL = 0.25
BC-1	: WS TOO LOW	: ASSUMED WS = WSC
BC-1	: KU/KD < 0.7 OR > 1.4	: USED WSMIN = WSC
C-4.4	: WS TOO LOW	: ALERTEO USER
C-4.4	: WS NOT FOUND BETWEEN	: USED WSMIN = WSC
C-4.4	: WS NOT FOUND	: WS = 3107.82 & WS = 3117.80
C-4.4	: WS NOT FOUND	: USED DEL = 0.25
E	: WS TOO LOW	: ASSUMED WS = WSC
E	: WS NOT FOUND BETWEEN	: USED WSMIN = WSC
E	: WS NOT FOUND	: WS = 3112.22 & WS = 3122.20
E	: WS NOT FOUND	: USED DEL = 0.25
C+4.0	: WS TOO LOW	: ASSUMED WS = WSC
C+4.0	: WS NOT FOUND BETWEEN	: USED WSMIN = WSC
C+4.0	: WS NOT FOUND	: WS = 3116.22 & WS = 3126.20
C+4.0	: WS NOT FOUND	: USED DEL = 0.25
F	: WS TOO LOW	: ASSUMED WS = WSC
F	: WS TOO LOW	: USED WSMIN = WSC



WATER SURFACE PROFILE FOR: MUTTON CREEK (10, 50, 100, 500) UP & DOWN B-F  
 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	512	0	510	166	12791	1.12	92	167
3085.88	0.16			3086.04	3.06	0.31			*IS*
C	AT	900	388	510	86	5575	1.00	191	221
3087.11	0.54	1.42	0.19	3087.65	5.90	0.61	0.000		*XS*
D	AT	1760	860	510	99	5916	1.00	57	96
3094.03	0.41	6.78	0.0	3094.44	5.15	0.58	0.015		*XS*
B+4.5	AT	2044	284	510	65	3294	1.00	61	94
3097.59	0.97	*****	*****	3098.56	7.88	0.99	*****		*XS*
BC-1	AT	2328	284	510	82	4616	1.08	56	99
3102.78	0.65	4.86	0.0	3107.43	6.21	0.74	0.012		*XS*
C-4.4	AT	2612	284	510	108	5250	1.32	16	131
3107.82	0.46	*****	*****	3108.28	4.71	0.63	*****		*XS*
E	AT	2890	278	510	108	5247	1.32	16	131
3112.22	0.46	*****	*****	3112.68	4.71	0.63	*****		*XS*
C+4.0	AT	3213	323	510	108	5247	1.32	16	131
3116.22	0.46	*****	*****	3116.68	4.71	0.63	*****		*XS*
D-4.0	AT	3487	274	510	140	4602	1.04	90	220
3119.42	0.21	2.95	0.0	3119.63	3.63	0.41	0.002		*XS*
F	AT	3810	323	510	140	4571	1.05	90	220
3123.41	0.22	3.99	0.00	3123.63	3.65	0.42	0.001		*XS*

END OF THIS PROFILE

CRIT CR

USGS WSA 3106-04

USGS WSA 3112-04

CRIT CR

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 \*\*\* PAGE COUNT= 15, DATE= 4/18/78

COMPUTED WSC VALUES FOR: MUTTON CREEK 10, 50, 100, 500 UP & DOWN B-F  
PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECID	D	B+4.5	BC-1	C-4.4	E	C+4.0	F
WSC	3093.09	3097.59	3102.47	3107.82	3112.22	3116.22	3123.10



PAGE 1 OF PROFILE NOTES FOR: MUTTON CREEK 10,50,100,500 UP & DOWN B-F  
PROFILE NUMBER 2, UPSTREAM COMPUTATIONS

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

C	KU/KD < 0.7 OR > 1.4		ALERTED USER
D	WS TOO LOW		USED WSMIN = WSC
D	KU/KD < 0.7 OR > 1.4		ALERTED USER
B+4.5	WS TOO LOW		USED WSMIN = WSC
BC-1	WS TOO LOW		USED WSMIN = WSC
C-4.4	WS TOO LOW		USED WSMIN = WSC
C-4.4	WS NOT FOUND BETWEEN		USED WSMIN = WSC
C-4.4	WS NOT FOUND	WS = 3108.35 & WS = 3117.80	USED DEL = 0.25
E	WS TOO LOW		ASSUMED WS = WSC
E	WS NOT FOUND BETWEEN	WS = 3112.75 & WS = 3122.20	USED WSMIN = WSC
E	WS NOT FOUND		USED DEL = 0.25
C+4.0	TOL FAILURE BETWEEN		ASSUMED WS = WSC
		WS = 3112.50 & WS = 3112.75	USED HIGHER WS

WATER-SURFACE PROFILE FOR: MUTTON CREEK 10 (50) 100,500 (UP) & DOWN B-F  
 PAGE 1 OF 1, PROFILE NUMBER 2, UPSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS	ELEV	HV	HF	HE	EG	V	FN	ACC	ID*
B	AT	512	0	970	943	92723	1.31	-16	241
		3090.00	0.02		3090.02	1.03	0.09		*IS*
C	AT	900	388	970	298	21426	1.41	185	322
		3090.08	0.23	0.18	0.11	3090.31	3.26	0.33	-0.000 *XS*
D	AT	1760	860	970	121	7779	1.00	54	98
		3094.56	1.00	4.86	0.38	3095.56	8.02	0.85	0.009 *XS*
B+4.5	AT	2044	284	970	120	7666	1.00	54	98
		3095.03	1.02	4.48	0.01	3100.05	8.10	0.86	-0.000 *XS*
BC-1	AT	2328	284	970	122	7624	1.09	48	102
		3103.59	1.08	4.57	0.03	3104.67	7.96	0.88	0.017 *XS*
C-4.4	AT	2612	284	970	174	9307	1.23	16	151
		3108.35	0.59	*****	*****	3108.94	5.57	0.70	***** *XS*
E	AT	2890	278	970	174	9302	1.23	16	151
		3112.75	0.59	*****	*****	3113.34	5.57	0.70	***** *XS*
C+4.0	AT	3213	323	970	159	8272	1.25	16	147
		3116.63	0.72	3.95	0.07	3117.36	6.10	0.78	0.001 *XS*
D-4.0	AT	3487	274	970	250	10383	1.00	89	254
		3120.13	0.23	3.00	0.0	3120.36	3.88	0.63	0.003 *XS*
F	AT	3810	323	970	207	7722	1.01	89	251
		3123.87	0.34	3.79	0.05	3124.21	4.68	0.82	0.003 *XS*

*USE VISA 3108.35*  
*USE VISA 3112.75*  
*USE VISA 3116.63*

END OF THIS PROFILE



COMPUTED WSC VALUES FOR: MUTTON CREEK 10, 50, 100, 500 UP & DOWN B-F  
PROFILE NUMBER 2, UPSTREAM COMPUTATIONS

SECID	D	B+4.5	BC-1	C-4.4	E
WSC	3094.21	3098.71	3103.55	3108.35	3112.75

PAGE 1 OF PROFILE NOTES FOR: MUTTON CREEK 10,50,100,500 UP & DOWN B-F  
 PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

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

C	;	KU/KD < 0.7 OR > 1.4	;		ALERTED USER
D	;	FRDN FAILURE	;		
			;	WS = 3094.51 & FR = 1.08	USED HIGHER WS
D	;	WS NOT FOUND BETWEEN	;		
			;	WS = 3091.78 & WS = 3105.00	USED DEL = 0.25
D	;	FRDN FAILURE	;		
			;	WS = 3094.51 & FR = 1.08	USED HIGHER WS
D	;	WS NOT FOUND BETWEEN	;		
			;	WS = 3091.78 & WS = 3105.00	USED WSMIN = WSC
D	;	WS NOT FOUND	;		ASSUMED WS = WSC
B+4.5	;	WS TOO LOW	;		USED WSMIN = WSC
BC-1	;	TOL FAILURE BETWEEN	;		
			;	WS = 3099.52 & WS = 3099.77	USED HIGHER WS
C-4.4	;	WS TOO LOW	;		USED WSMIN = WSC
C-4.4	;	WS NOT FOUND BETWEEN	;		
			;	WS = 3108.56 & WS = 3117.80	USED DEL = 0.25
C-4.4	;	WS NOT FOUND	;		ASSUMED WS = WSC
E	;	TOL FAILURE BETWEEN	;		
			;	WS = 3108.81 & WS = 3109.06	USED HIGHER WS
C+4.0	;	TOL FAILURE BETWEEN	;		
			;	WS = 3112.37 & WS = 3112.62	USED HIGHER WS
C+4.0	;	KU/KD < 0.7 OR > 1.4	;		ALERTED USER
D-4.0	;	KU/KD < 0.7 OR > 1.4	;		ALERTED USER



WATER-SURFACE PROFILE FOR: MUTTON CREEK 10.50 (100,500) UP & DOWN B-F  
 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	
B	AT	512	0	1200	1498	175282	1.21	-33	262
3092.00	0.01			3092.01	0.80	0.06		*IS*	
C	AT	900	388	1200	603	50992	1.21	182	346
3092.03	0.07	0.06	0.03	3092.11	1.99	0.18	0.000	*XS*	
D	AT	1760	860	1200	126	8205	1.00	54	98
3094.67	1.42	*****	*****	3096.08	9.54	1.00	*****	*XS*	
B+4.5	AT	2044	284	1200	154	10768	1.00	51	100
3099.77	0.95	4.63	0.0	3100.72	7.81	0.77	0.005	*XS*	
BC-1	AT	2328	284	1200	137	8886	1.09	45	103
3103.87	1.29	4.27	0.17	3105.16	8.74	0.94	-0.003	*XS*	
C-4.4	AT	2612	284	1200	204	11465	1.19	16	160
3108.56	0.64	*****	*****	3109.20	5.87	0.71	*****	*XS*	
E	AT	2890	278	1200	157	8146	1.25	16	146
3112.62	1.14	4.29	0.25	3113.76	7.64	0.98	0.018	*XS*	LESS THAN CRITICAL
C+4.0	AT	3213	323	1200	245	14601	1.16	15	170
3117.24	0.43	3.91	0.0	3117.67	4.90	0.56	0.000	*XS*	
D-4.0	AT	3487	274	1200	239	9699	1.00	89	253
3120.07	0.39	2.79	0.0	3120.46	5.01	0.83	0.001	*XS*	
F	AT	3810	323	1200	269	11707	1.00	88	255
3124.25	0.31	4.10	0.0	3124.56	4.45	0.70	0.003	*XS*	

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 \*\*\* PAGE COUNT= 21, DATE= 4/18/78

COMPUTED WSC VALUES FOR: MUTTON CREEK 10, 50, 100, 500 UP & DOWN B-F  
PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

SECID	D	B+4.5	C-4.4
WSC	3094.67	3099.17	3108.56





WATER-SURFACE PROFILE FOR: MUTTON CREEK 10.50, 100 (500 UP) & DOWN B-F  
 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	
B	AT	512	0	1920	1865	238268	1.17	-43	273
3093.20	0.02			3093.22	1.03	0.07		*IS*	
C	AT	900	388	1920	818	78307	1.16	146	349
3093.24	0.10	0.08	0.04	3093.34	2.35	0.18	-0.001	*XS*	
D	AT	1760	860	1920	182	13590	1.00	49	102
3095.84	1.73	*****	*****	3097.56	10.53	0.99	*****	*XS*	
B+4.5	AT	2044	284	1920	215	16847	1.03	46	119
3100.86	1.28	4.57	0.0	3102.14	8.92	0.82	0.001	*XS*	
BC-1	AT	2328	284	1920	214	15247	1.18	33	126
3104.83	1.48	4.08	0.10	3106.32	8.99	0.92	0.002	*XS*	
C-4.4	AT	2612	284	1920	299	19184	1.14	15	183
3109.17	0.73	3.58	0.0	3109.90	6.42	0.70	0.003	*XS*	
E	AT	2890	278	1920	283	17748	1.14	15	179
3113.47	0.82	*****	*****	3114.29	6.79	0.75	*****	*XS*	
C+4.0	AT	3213	323	1920	273	16899	1.15	15	177
3117.41	0.89	3.97	0.03	3118.30	7.04	0.79	0.000	*XS*	
D-4.0	AT	3487	274	1920	377	20032	1.02	87	262
3120.88	0.41	2.98	0.0	3121.29	5.10	0.70	0.008	*XS*	
F	AT	3810	323	1920	325	15841	1.01	88	259
3124.58	0.55	3.75	0.07	3125.13	5.90	0.86	0.018	*XS*	

CRITOK

CRITOK 3104.19

USFWSA 3109.17

USFWSA 3113.47

CRITOK 3117.41

END OF THIS PROFILE



USGS STEP-BACKWATER PROGRAM - VERSION 77.180 \*\*\* PAGE COUNT= 24, DATE= 4/18/78

COMPUTED WSC VALUES FOR: MUTTON CREEK 10,50,100,500 UP & DOWN B-F  
PROFILE NUMBER 4, UPSTREAM COMPUTATIONS

SECID	D	E
WSC	3095.84	3113.47

PAGE 11 OF PROFILE NOTES FOR: MUTTON CREEK 10,50,100,500 UP & DOWN B-F  
 PROFILE NUMBER 5, DOWNSTREAM COMPUTATIONS

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

F	; WS TOO LOW		ASSUMED WS = WSC
D-4.0	; WS NOT FOUND BETWEEN	; WS = 3119.10 & WS = 3115.70;	USED DEL = 0.25
D-4.0	; WS NOT FOUND BETWEEN	; WS = 3119.10 & WS = 3115.70;	USED KE = 0.5
D-4.0	; WS NOT FOUND		ASSUMED WS = WSC
C+4.0	; WS NOT FOUND BETWEEN	; WS = 3116.22 & WS = 3112.30;	USED DEL = 0.25
C+4.0	; WS NOT FOUND BETWEEN	; WS = 3116.22 & WS = 3112.30;	USED KE = 0.5
C+4.0	; WS NOT FOUND		ASSUMED WS = WSC
E	; SUPERCRITICAL WS		COMPUTED WSA
C-4.4	; SUPERCRITICAL WS		COMPUTED WSA
BC-1	; SUPERCRITICAL WS		COMPUTED WSA
B+4.5	; WS NOT FOUND BETWEEN	; WS = 3097.59 & WS = 3094.90;	USED DEL = 0.25
B+4.5	; WS NOT FOUND BETWEEN	; WS = 3097.59 & WS = 3094.90;	USED KE = 0.5
B+4.5	; WS NOT FOUND		ASSUMED WS = WSC
D	; WS NOT FOUND BETWEEN	; WS = 3093.09 & WS = 3090.40;	USED DEL = 0.25
D	; WS NOT FOUND BETWEEN	; WS = 3093.09 & WS = 3090.40;	USED KE = 0.5
D	; WS NOT FOUND		ASSUMED WS = WSC
C	; WS NOT FOUND BETWEEN	; WS = 3086.15 & WS = 3083.00;	USED DEL = 0.25
C	; WS NOT FOUND BETWEEN	; WS = 3086.15 & WS = 3083.00;	USED KE = 0.5
C	; WS NOT FOUND		ASSUMED WS = WSC
B	; WS NOT FOUND BETWEEN	; WS = 3083.77 & WS = 3080.60;	USED DEL = 0.25
B	; WS NOT FOUND BETWEEN	; WS = 3083.77 & WS = 3080.60;	



B ; WS NOT FOUND

USED KE = 0.5

ASSUMED WS = WSC

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 \*\*\* PAGE COUNT= 26, DATE= 4/18/78

WATER-SURFACE PROFILE FOR: MUTTON CREEK (10, 50, 100, 500 UP & DOWN) B-F  
PAGE 1 OF 1, PROFILE NUMBER 5, DOWNSTREAM COMPUTATIONS

SECID	AT	DISTANCE / WS ELEV	LENGTH / HV	DISCHARGE / HF	AREA / HE	CONVEYANCE / EG	ALPHA / V	LEW / FN	REW / ACC	*ID*
F	AT	3810 / 3123.10	0 / 0.43	510. /	103. / 3123.53	3304. / 4.93	1.13 / 0.93	90. /	196.	*IS*
D-4.0	AT	3487 / 3119.10	-323 / 0.43	510. / *****	103. / *****	3304. / 3119.53	1.13 / 4.93	90. / 0.93	196.	*XS*
C-4.0	AT	3213 / 3116.22	-274 / 0.46	510. / *****	108. / *****	5247. / 3116.68	1.32 / 4.71	16. / 0.98	131.	*XS*
E	AT	2890 / 3111.97	-323 / 0.76	510. / 3.93	80. / 0.0	4069. / 3112.73	1.21 / 6.37	17. / 1.41	129.	*XS*
C-4.4	AT	2612 / 3107.56	-278 / 0.77	510. / 4.40	79. / 0.0	4036. / 3108.33	1.19 / 6.45	17. / 1.41	129.	*XS*
BC-1	AT	2328 / 3102.46	-284 / 0.91	510. / 4.96	69. / 0.0	3691. / 3103.37	1.07 / 7.40	59. / 1.02	98.	*XS*
B-4.5	AT	2044 / 3097.59	-284 / 0.97	510. / *****	65. / *****	3294. / 3098.56	1.00 / 7.88	61. / 0.99	94.	*XS*
D	AT	1760 / 3093.09	-284 / 0.97	510. / *****	65. / *****	3294. / 3094.06	1.00 / 7.88	61. / 0.99	94.	*XS*
C	AT	900 / 3086.15	-860 / 1.14	510. / *****	60. / *****	3316. / 3087.29	1.00 / 8.56	192. / 1.00	218.	*XS*
B	AT	512 / 3083.77	-388 / 0.96	510. / *****	65. / *****	3677. / 3084.73	1.00 / 7.86	118. / 0.99	151.	*XS*

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 \*\*\* PAGE COUNT= 27, DATE= 4/18/78

COMPUTED WSC VALUES FOR: MUTTON CREEK 10,50,100,500 UP & DOWN B-F  
PROFILE NUMBER 5, DOWNSTREAM COMPUTATIONS

SECID	B	C	D	B+4.5	BC-1	C-4.4	E	C+4.0
WSC	3083.77	3086.15	3093.09	3097.59	3102.47	3107.82	3112.22	3116.32

SECID	D-4.0	F
WSC	3119.10	3123.10

COMPUTED WSA VALUES FOR: MUTTON CREEK 10,50,100,500 UP & DOWN B-F  
PROFILE NUMBER 5, DOWNSTREAM COMPUTATIONS

SECID	BC-1	C-4.4	E
WSA	3102.51	3108.06	3112.44



PAGE 1 OF PROFILE NOTES FOR: MUTTON CREEK 10,50,100,500 UP & DOWN B-F  
 PROFILE NUMBER 6, DOWNSTREAM COMPUTATIONS

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

F	: WS TOO LOW			ASSUMED WS = WSC
D-4.0	: WS NOT FOUND BETWEEN			USED DEL = 0.25
		: WS = 3119.59 & WS = 3115.70:		
D-4.0	: WS NOT FOUND BETWEEN			USED KE = 0.5
		: WS = 3119.59 & WS = 3115.70:		
D-4.0	: WS NOT FOUND			ASSUMED WS = WSC
C+4.0	: WS NOT FOUND BETWEEN			USED DEL = 0.25
		: WS = 3116.75 & WS = 3112.30:		
C+4.0	: WS NOT FOUND BETWEEN			USED KE = 0.5
		: WS = 3116.75 & WS = 3112.30:		
C+4.0	: WS NOT FOUND			ASSUMED WS = WSC
E	: SUPERCRITICAL WS			COMPUTED WSA
C-4.4	: SUPERCRITICAL WS			COMPUTED WSA
BC-1	: WS NOT FOUND BETWEEN			USED DEL = 0.25
		: WS = 3103.55 & WS = 3099.40:		
BC-1	: WS NOT FOUND BETWEEN			USED KE = 0.5
		: WS = 3103.55 & WS = 3099.40:		
BC-1	: WS NOT FOUND			ASSUMED WS = WSC
B+4.5	: WS NOT FOUND BETWEEN			USED DEL = 0.25
		: WS = 3098.71 & WS = 3094.90:		
B+4.5	: WS NOT FOUND BETWEEN			USED KE = 0.5
		: WS = 3098.71 & WS = 3094.90:		
B+4.5	: WS NOT FOUND			ASSUMED WS = WSC
D	: WS NOT FOUND BETWEEN			USED DEL = 0.25
		: WS = 3094.21 & WS = 3090.40:		
D	: WS NOT FOUND BETWEEN			USED KE = 0.5
		: WS = 3094.21 & WS = 3090.40:		
D	: WS NOT FOUND			ASSUMED WS = WSC
C	: WS NOT FOUND BETWEEN			USED DEL = 0.25
		: WS = 3087.46 & WS = 3083.00:		
C	: WS NOT FOUND BETWEEN			USED KE = 0.5
		: WS = 3087.46 & WS = 3083.00:		
C	: WS NOT FOUND			

B ; WS NOT FOUND BETWEEN

; WS = 3084.92 & WS = 3080.60;

ASSUMED WS = WSC

B ; WS NOT FOUND BETWEEN

; WS = 3084.92 & WS = 3080.60;

USED DEL = 0.25

B ; WS NOT FOUND

USED KE = 0.5

ASSUMED WS = WSC



WATER-SURFACE PROFILE FOR: MUTTON CREEK 10.50 100,500 UP & DOWN B-F  
 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	
F	AT	3810	0	970	164	5621	1.03	89	234
3123.59	0.56			3124.15	5.91	0.99			*IS*
D-4.0	AT	3487	-323	970	164	5621	1.03	89	234
3119.59	0.56	*****	*****	3120.15	5.91	0.99	*****		*XS*
C+4.0	AT	3213	-274	970	174	9302	1.23	16	151
3116.75	0.59	*****	*****	3117.34	5.57	0.96	*****		*XS*
E	AT	2890	-323	970	158	8223	1.25	16	147
3112.63	0.73	3.97	0.0	3113.36	6.13	1.10	0.007		*XS*
C-4.4	AT	2612	-278	970	144	7324	1.27	16	142
3108.12	0.90	4.34	0.0	3109.02	6.73	1.25	0.001		*XS*
BC-1	AT	2328	-284	970	120	7439	1.09	48	102
3103.55	1.12	*****	*****	3104.67	8.12	1.00	*****		*XS*
B+4.5	AT	2044	-284	970	106	6515	1.00	56	97
3098.71	1.30	*****	*****	3100.01	9.13	1.00	*****		*XS*
D	AT	1760	-284	970	106	6515	1.00	56	97
3094.21	1.30	*****	*****	3095.51	9.13	1.00	*****		*XS*
C	AT	900	-860	970	97	6559	1.00	190	222
3087.46	1.55	*****	*****	3089.00	9.97	1.00	*****		*XS*
B	AT	512	-388	970	109	7475	1.01	109	156
3084.92	1.25	*****	*****	3086.16	8.90	1.04	*****		*XS*

END OF THIS PROFILE

COMPUTED WSC VALUES FOR: MUTTON CREEK 10,50,100,500 UP & DOWN R-F  
PROFILE NUMBER 6, DOWNSTREAM COMPUTATIONS

SECID	B	C	D	B+4.5	BC-1	C-4.4	E	C+4.0
WSC	3084.92	3087.46	3094.21	3098.71	3103.55	3108.35	3112.75	3116.75

SECID	D-4.0	F
WSC	3119.59	3123.59

COMPUTED WSA VALUES FOR: MUTTON CREEK 10,50,100,500 UP & DOWN R-F  
PROFILE NUMBER 6, DOWNSTREAM COMPUTATIONS

SECID	BC-1	C-4.4	E
WSA	3102.51	3108.64	3112.89



PAGE 1 OF PROFILE NOTES FOR: MUTTON CREEK 10,50,100,500 UP & DOWN B-F  
 PROFILE NUMBER 7, DOWNSTREAM COMPUTATIONS

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

F	WS TOO LOW			ASSUMED WS = WSC
D-4.0	WS NOT FOUND BETWEEN			USED DEL = 0.25
		WS = 3119.81 & WS = 3115.70		
D-4.0	WS NOT FOUND BETWEEN			USED KE = 0.5
		WS = 3119.81 & WS = 3115.70		
D-4.0	WS NOT FOUND			ASSUMED WS = WSC
C+4.0	WS NOT FOUND BETWEEN			USED DEL = 0.25
		WS = 3116.97 & WS = 3112.30		
C+4.0	WS NOT FOUND BETWEEN			USED KE = 0.5
		WS = 3116.97 & WS = 3112.30		
C+4.0	WS NOT FOUND			ASSUMED WS = WSC
E	SUPERCRITICAL WS			COMPUTED WSA
C-4.4	SUPERCRITICAL WS			COMPUTED WSA
BC-1	WS NOT FOUND BETWEEN			USED DEL = 0.25
		WS = 3103.93 & WS = 3099.40		
BC-1	WS NOT FOUND BETWEEN			USED KE = 0.5
		WS = 3103.93 & WS = 3099.40		
BC-1	WS NOT FOUND			ASSUMED WS = WSC
B+4.5	WS NOT FOUND BETWEEN			USED DEL = 0.25
		WS = 3099.17 & WS = 3094.90		
B+4.5	WS NOT FOUND BETWEEN			USED KE = 0.5
		WS = 3099.17 & WS = 3094.90		
B+4.5	WS NOT FOUND			ASSUMED WS = WSC
D	WS NOT FOUND BETWEEN			USED DEL = 0.25
		WS = 3094.67 & WS = 3090.40		
D	WS NOT FOUND BETWEEN			USED KE = 0.5
		WS = 3094.67 & WS = 3090.40		
D	WS NOT FOUND			ASSUMED WS = WSC
C	WS NOT FOUND BETWEEN			USED DEL = 0.25
		WS = 3088.02 & WS = 3083.00		
C	WS NOT FOUND BETWEEN			USED KE = 0.5
		WS = 3088.02 & WS = 3083.00		
C	WS NOT FOUND			

B | WS NOT FOUND BETWEEN

| WS = 3085.43 & WS = 3080.60 |

ASSUMED WS = WSC  
USED DEL = 0.25

B | WS NOT FOUND BETWEEN

| WS = 3085.43 & WS = 3080.60 |

USED KE = 0.5

B | WS NOT FOUND

ASSUMED WS = WSC



WATER-SURFACE PROFILE FOR: MUTTON CREEK 10,50,100,500 UP & DOWN B-F  
 PAGE 1 OF 1, 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	
F	AT	3810	0	1200	198	7199	1.01	89	250
3123.81	0.58			3124.39	6.06	0.97			*IS*
D-4.0	AT	3487	-323	1200	198	7199	1.01	89	250
3119.81	0.58	*****	*****	3120.39	6.06	0.97	*****		*XS*
C+4.0	AT	3213	-274	1200	205	11510	1.19	16	160
3116.97	0.64	*****	*****	3117.60	5.86	0.95	*****		*XS*
E	AT	2890	-323	1200	186	10156	1.21	16	155
3112.84	0.78	3.98	0.0	3113.62	6.44	1.08	0.006		*XS*
C-4.4	AT	2612	-278	1200	171	9083	1.23	16	150
3108.33	0.94	4.34	0.0	3109.27	7.02	1.22	0.010		*XS*
BC-1	AT	2328	-284	1200	141	9178	1.09	45	111
3103.93	1.23	*****	*****	3105.16	8.52	1.08	*****		*XS*
B+4.5	AT	2044	-284	1200	126	8205	1.00	54	98
3099.17	1.42	*****	*****	3100.58	9.54	1.00	*****		*XS*
D	AT	1760	-284	1200	126	8205	1.00	54	98
3094.67	1.42	*****	*****	3096.08	9.54	1.00	*****		*XS*
C	AT	900	-860	1200	116	8334	1.00	189	224
3088.02	1.67	*****	*****	3089.69	10.27	1.00	*****		*XS*
B	AT	512	-388	1200	137	9947	1.06	99	159
3085.43	1.27	*****	*****	3086.70	8.78	1.05	*****		*XS*

END OF THIS PROFILE

COMPUTED WSC VALUES FOR: MUTTON CREEK 10,50,100,500 UP & DOWN B-F  
PROFILE NUMBER 7, DOWNSTREAM COMPUTATIONS

SECID	B	C	D	B+4.5	BC-1	C-4.4	F	C+4.0
WSC	3085.43	3088.02	3094.67	3099.17	3103.93	3108.56	3112.97	3116.97

SECID	D-4.0	F
WSC	3119.81	3123.81

COMPUTED WSA VALUES FOR: MUTTON CREEK 10,50,100,500 UP & DOWN B-F  
PROFILE NUMBER 7, DOWNSTREAM COMPUTATIONS

SECID	BC-1	C-4.4	E
WSA	3102.51	3108.84	3113.09

*NO DATA  
RECORDED*



USGS STEP-BACKWATER PROGRAM - VERSION 77.180 \*\*\* PAGE COUNT= 34, DATE= 4/18/78

PAGE 1 OF PROFILE NOTES FOR: MUTTON CREEK 10,50,100,500 UP & DOWN B-F  
PROFILE NUMBER 8, DOWNSTREAM COMPUTATIONS

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

F ; WS TOO LOW ; ASSUMED WS = WSC

D-4.0 ; WS NOT FOUND BETWEEN ; WS = 3120.23 & WS = 3115.70 ; USED DEL = 0.25

D-4.0 ; WS NOT FOUND BETWEEN ; WS = 3120.23 & WS = 3115.70 ; USED KE = 0.5

D-4.0 ; WS NOT FOUND ; ASSUMED WS = WSC

C+4.0 ; WS NOT FOUND BETWEEN ; WS = 3117.47 & WS = 3112.30 ; USED DEL = 0.25

C+4.0 ; WS NOT FOUND BETWEEN ; WS = 3117.47 & WS = 3112.30 ; USED KE = 0.5

C+4.0 ; WS NOT FOUND ; ASSUMED WS = WSC

E ; SUPERCRITICAL WS ; COMPUTED WSA

C-4.4 ; SUPERCRITICAL WS ; COMPUTED WSA

BC-1 ; WS NOT FOUND BETWEEN ; WS = 3104.89 & WS = 3099.40 ; USED DEL = 0.25

BC-1 ; WS NOT FOUND BETWEEN ; WS = 3104.89 & WS = 3099.40 ; USED KE = 0.5

BC-1 ; WS NOT FOUND ; ASSUMED WS = WSC

B+4.5 ; WS NOT FOUND BETWEEN ; WS = 3100.34 & WS = 3094.90 ; USED DEL = 0.25

B+4.5 ; WS NOT FOUND BETWEEN ; WS = 3100.34 & WS = 3094.90 ; USED KE = 0.5

B+4.5 ; WS NOT FOUND ; ASSUMED WS = WSC

D ; WS NOT FOUND BETWEEN ; WS = 3095.84 & WS = 3090.40 ; USED DEL = 0.25

D ; WS NOT FOUND BETWEEN ; WS = 3095.84 & WS = 3090.40 ; USED KE = 0.5

D ; WS NOT FOUND ; ASSUMED WS = WSC

C ; WS NOT FOUND BETWEEN ; WS = 3089.85 & WS = 3083.00 ; USED DEL = 0.25

C ; WS NOT FOUND BETWEEN ; WS = 3089.85 & WS = 3083.00 ; USED KE = 0.5

C ; WS NOT FOUND ; ASSUMED WS = WSC

B ; WS NOT FOUND BETWEEN

; WS = 3086.80 & WS = 3080.60 ;

ASSUMED WS = WSC

B ; WS NOT FOUND BETWEEN

; WS = 3086.80 & WS = 3080.60 ;

USED DEL = 0.25

B ; WS NOT FOUND

USED KE = 0.5

ASSUMED WS = WSC



WATER-SURFACE PROFILE FOR: MUTTON CREEK 10,50,100,500 UP & DOWN B-F  
 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		
F	AT	3810	0	1920	266	11473	1.00	88	255		
		3124.23	0.81		3125.04	7.22	1.01				*IS*
D-4.0	AT	3487	-323	1920	266	11473	1.00	88	255		
		3120.23	0.81	*****	3121.04	7.22	1.01	*****			*XS*
C-4.0	AT	3213	-274	1920	283	17748	1.14	15	179		
		3117.47	0.82	*****	3118.29	6.79	0.98	*****			*XS*
F	AT	2890	-323	1920	272	16806	1.15	15	177		
		3113.40	0.89	3.99	0.0	3114.30	7.07	1.03	0.004		*XS*
C-4.4	AT	2612	-278	1920	238	14098	1.16	15	169		
		3108.79	1.17	4.33	0.0	3109.97	8.05	1.23	0.003		*XS*
BC-1	AT	2328	-284	1920	219	15723	1.18	32	127		
		3104.89	1.42	*****	3106.31	8.77	1.11	*****			*XS*
B-4.5	AT	2044	-284	1920	182	13590	1.00	49	102		
		3100.34	1.73	*****	3102.06	10.53	1.01	*****			*XS*
D	AT	1760	-284	1920	182	13590	1.00	49	102		
		3095.84	1.73	*****	3097.56	10.53	1.01	*****			*XS*
C	AT	900	-860	1920	268	19237	1.40	186	314		
		3089.85	1.12	*****	3090.97	7.17	1.03	*****			*XS*
B	AT	512	-388	1920	264	20807	1.35	53	188		
		3086.80	1.11	*****	3087.91	7.26	1.07	*****			*XS*

END OF THIS PROFILE

COMPUTED WSC VALUES FOR: MUTTON CREEK 10,50,100,500 UP & DOWN B-F  
PROFILE NUMBER 8, DOWNSTREAM COMPUTATIONS

SECID	B	C	D	B+4.5	BC-1	C-4.4	F	C+4.0
WSC	3086.80	3089.85	3095.84	3100.34	3104.89	3109.07	3113.47	3117.47

SECID	D-4.0	F
WSC	3120.23	3124.23

COMPUTED WSA VALUES FOR: MUTTON CREEK 10,50,100,500 UP & DOWN B-F  
PROFILE NUMBER 8, DOWNSTREAM COMPUTATIONS

SECID	BC-1	C-4.4	E
WSA	3102.51	3109.42	3113.53





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

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

6	626	1	2	035	035	1	2	045	045	1	2	035	035						
3	630	D-4.0	0	14	3	3117		3487	99	99									
5	632		0	1	31293		6	1	31245		10	1	31263	22	1	31258	76	1	31267
5	633		83	2	31234		96	2	31157		102	2	31155	108	2	31157	111	3	31161
5	634		141	3	31184		250	3	31198		275	3	31220	288	3	31293			
6	636	1	2	045	045	2	3	050	080	1	2	040	040						
3	700	F	0	14	3	3121		3810	99	99									
5	705		0	1	31333		6	1	31285		10	1	31303	22	1	31298	76	1	31267
5	706		83	2	31274		96	2	31197		102	2	31195	108	2	31197	111	3	31221
5	707		141	3	31224		250	3	31238		275	3	31260	288	3	31333			
6	710	1	2	045	045	2	3	050	080	1	2	040	040						



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INPUT SUMMARY FOR: MUTTON CREEK 10,50,100,500 UP & DOWN R-F

10 CROSS SECTIONS SPECIFIED (OR ASSUMED)

FOUND 10 TYPE 3 CARDS

KEPT 10 CROSS SECTIONS FOR EDITING

10 " " VALID FOR PROPERTY COMPUTATIONS

10 " " " " PROFILE "