

Fisheries Investigations and Monitoring Program 2002

Species	Number Taken	Size Range (mm)	Gear Used	Time of Year	Location
Cutthroat Trout	2	299-352	Hook and line	Late spring	Cabinet Gorge Reservoir
Cutthroat Trout	8	332-458	Electrofishing	Late spring	Cabinet Gorge Reservoir
Rainbow Trout	10	370-458	Electrofishing	Late spring	Cabinet Gorge Reservoir
Rainbow Trout	1	382	Hook and line	Late spring	Cabinet Gorge Reservoir
Brown Trout	10	355-576	Weir Trap	November	East Fork Bull River
Brown Trout	1	425	Hook and line	Early summer	Bull River
Brown Trout	9	335-520	Electrofishing	Late spring	Cabinet Gorge Reservoir
Brook Trout	3	260-312	Hook and line	mid-summer	Bull River
Bull Trout	1	346	Hook and line	Late spring	Cabinet Gorge Reservoir
Bull Trout	4	340-710	Electrofishing	Late spring	Cabinet Gorge Reservoir

*Cabinet Gorge Reservoir in this instance refers to the body of water between Noxon Bridge and Noxon Rapids Dam. "Late Spring" is May and June, "Early Summer" is the end of June and beginning of July.

Adult Fish Passage Program 2002

Cabinet Reservoir Boat Electrofishing: April-August 2002

The Adult Fish Passage Program started electrofishing this year on April 29, 2002, and finished electrofishing on August 7, 2002. Over this time period, electrofishing was conducted for 14 nights. For this season of electrofishing it was decided to capture all trout and whitefish to try and start some trend data in this section of Cabinet Reservoir. The table below is the results of this year's electrofishing effort. The shocking areas for Cabinet Reservoir are: the mouth of Pilgrim Creek, mouth of Government Creek, and from the boater's safety sign to the mouth of Rock Creek on both sides of the Clark Fork River.

Date	Species	Number Captured	Recaptured	Size Range	Shocking Time in Sec.
4-29-02	BLT	1	0	590mm	
	RBT	1	0	500mm	
	MWF	6	0	315 – 320mm	
	LWF	1	0	390mm	3352 sec
5-01-02	BLT	2	0	270 – 280mm	
	RBT	1	0	345mm	
	BRN	1	0	308mm	
	MWF	17	0	260 – 340mm	3607 sec
5-08-02	RBT	1	0	283mm	
	BRN	2	0	363 – 450mm	
	MWF	6	1	315 – 330mm	3489 sec
5-13-02	BRN	1	0	347mm	
	MWF	7	0	270 – 347mm	3907
6-30-02	BLT	1	0	660mm	
	RBT	1	0	495mm	
	MWF	3	0	310 – 370mm	
	LWF	10	0	310 – 485mm	1889 sec
7-08-02	RBT	2	0	245 – 450mm	
7-08-02	BRN	3	0	400 – 630mm	
	MWF	3	0	310 – 320mm	
	LWF	2	0	445 – 447mm	2313 sec

Date	Species	Number Captured	Recaptured	Size Range	Shocking Time in Sec.
7-10-02	BRN	1	0	340mm	
	MWF	3	0	285 – 335mm	1556 sec
7-15-02	RBT	1	0	447mm	
	BRN	1	0	465mm	
	MWF	7	1	260 – 350mm	
	LWF	1	0	415mm	3242 sec
7-17-02	BLT	4	0	344 – 710mm	
	RBT	3	0	320 – 460mm	
	BRN	7	1	375 – 600mm	
	MWF	20	0	280 – 430mm	
	LWF	4	0	390 – 440mm	5346 sec
7-23-02	RBT	18	0	260 – 450mm	
	BRN	15	0	290 – 510mm	
	WCT	14	0	270 – 405mm	
	MWF	15	0	295 – 362mm	
	LWF	5	0	420 – 460mm	
	KOK	3	0	315 – 320mm	3440 sec
7-25-02	RBT	15	1	160 – 384mm	
	BRN	27	1	152 – 520mm	
	WCT	10	1	294 – 438mm	
	MWF	9	1	278 – 388mm	3188 sec
7-29-02	RBT	15	1	320 – 502mm	
	BRN	34	2	160 – 425mm	
	WCT	17	1	200 – 400mm	
	MWF	31	2	250 – 344mm	
	LWF	2	0	380 – 458mm	
	KOK	8	1	233 – 315mm	4271 sec
7-31-02	RBT	5	3	348 – 383mm	
	BRN	9	1	265 – 650mm	
	WCT	1	0	350mm	
	MWF	3	1	320 – 370mm	
	KOK	2	0	255 – 260mm	813 sec
8-07-02	RBT	1	0	375mm	
	BRN	17	5	215 – 550mm	
	WCT	4	3	320 – 430mm	
	MWF	11	1	290 – 382mm	
	KOK	1	0	240mm	4428 sec
Totals		415	27		44841 sec

The shocking times above are represented in seconds, so 44841 sec is the same as 12.45 hrs. The table below is a break down of total numbers captured by species and catch per shocking hour.

Species	Number Captured	Recaptured	Catch per Hour
BLT	7	0	.56 per hr
RBT	118	7	9.48 per hr
BRN	64	8	5.14 per hr
WCT	46	3	3.70 per hr
MWF	141	7	11.32 per hr
LWF	25	0	2.0 per hr
KOK	14	1	1.12 per hr

Juvenile Transport Program 2002

South Fork Screw Trap

The South Fork screw trap was actually on the mainstem of Bull River just downstream of the South Fork. It was deployed on 4-11-02 and was pulled on 7-29-02. It was checked daily for fish and cleaned of debris. It was out of operation for 41 days due to high flow and debris.

Species	Total Catch	Size Range (mm)	Average Size (mm)
Westslope Cutthroat Trout	44	40-207	100
Fry (unknown)	6	20-25	22
Brook Trout	4	48-106	82
Brown Trout	3	98-100	99
Sculpin	1	85	

East Fork Bull River Screw Trap

This trap was deployed on 4-1-02 and was pulled on 7-10-02. It was checked daily for fish and cleaned of debris. It was out of operation for 1.5 days due to debris and high water levels. This trap was located just upstream of the major weir.

Species	Total Catch	Size Range (mm)	Average Size (mm)
Brown Trout	80	58-136	83
Fry (unknown)	119	20-30	25
Westslope Cutthroat Trout	9	55-213	108
Unknown Oncorhynchus	3	20-35	27
Brook Trout	5	65-115	100
Sculpin	2	85	85

Lower East Fork Bull River Screw Trap

This trap was deployed on 5-14-02 and was pulled on 7-18-02. It was checked daily for fish and cleaned of debris. It was out of operation for 7 days due to debris and high water levels. This trap was located upstream of the East Fork Bull River Mouth.

Species	Total Catch	Size Range (mm)	Average Size (mm)
Bull Trout	1	140	
Brook Trout	15	80-172	114
Brown Trout	120	60-203	101
Fry (unknown)	154	20-30	25
Westslope Cutthroat Trout	8	56-167	103
Sculpin	7	61-85	75
Mountain Whitefish	1	63	
Northern Pike Minnow	3	155-163	158

Rock Creek Screw Trap

This trap was deployed on 4-8-02 and was pulled on 8-6-02. It was checked daily for fish and cleaned of debris. It was out of operation for a total of 34 days due to high water and debris. This trap was located immediately downstream of the Highway 200 culvert.

Species	Total Catch	Size Range (mm)	Average Size (mm)
Westslope Cutthroat Trout	1	180	

Vermillion River Screw Trap

This trap was deployed on 4-24-02 and was pulled on 7-8-02. It was checked daily for fish and cleaned of debris. It was out of operation for a total of 20 days due to high water and debris. This trap was located ¼ mile downstream from the mouth of Canyon Creek.

Species	Total Catch	Size Range (mm)	Average Size (mm)
Bull Trout	14	26-156	111
Brook Trout	1	105	
Brown Trout	23	71-150	100
Fry (unknown)	3	25-40	35
Sculpin	26	25-100	71
Westslope Cutthroat Trout	15	57-142	88

South Fork Weir

This trap was deployed on 7-24-02 and is still currently fishing as of 12-10-02. It was located downstream of the South Fork on the mainstem of Bull River.

Species	Total Catch	Size Range (mm)	Average Size (mm)
Brook Trout	196	48-260	131
Westslope Cutthroat Trout	94	50-365	135
Mountain Whitefish	106	120-405	271
Bull Trout	6	193-715	548
Sculpin	1	60	
Rainbow Trout	1	56	
Brown Trout	1	154	

Rock Creek Weir

This trap was installed on 7-25-02 and was removed on 9-27-02 due to lack of water. It was located just upstream of the second Forest Service bridge.

Species	Total Catch	Size Range (mm)	Average Size (mm)
Westslope Cutthroat Trout	322	40-256	155
Bull Trout	15	52-223	142

Lower Rock Creek Weir

This trap was installed on 8-8-02 and was removed on 8-31-02 due to lack of water. It was located 50 meters downstream of the Highway 200 culvert.

Species	Total Catch	Size Range (mm)	Average Size (mm)
Westslope Cutthroat Trout	15	90-245	177
Bull Trout	2	227 & 234	230
Brown Trout	1	239	

East Fork Bull River Major Weir

This trap was installed on 7-11-02 and the data represents to 12-8-02, although the trap is still operational to date (12-08-02). Due to high water and debris it was out of operation for a total of 15 days.

Species	Total Catch	Size Range (mm)	Average Size (mm)
Brown Trout	50	48-273	107
Mountain Whitefish	63	88-370	202
Brook Trout	120	50-203	93
Westslope Cutthroat Trout	24	70-297	133
Bull Trout	21	56-700	201
Sculpin	20	48-90	73
Unknown Oncorhynchus	1	60	

East Fork Bull River Minor Weir

This trap was installed on 7-22-02 and the data represents up to 12-8-02. As of today 12-8-01 it is still in operation. This trap was out a total of 9 days due to high water.

Species	Total Catch	Size Range (mm)	Average Size (mm)
Brown Trout	135	49-590	213
Brook Trout	56	55-206	138
Westslope Cutthroat Trout	43	65-260	164
Bull Trout	79	50-765	314
Mountain Whitefish	92	94-420	230

Graves Creek Weir

This trap was installed on 8-14-02 and was removed on 12-9-02 due to lack of water in the stream. The trap was located upstream of the Blue Slide Road crossing. The trap was out of operation for a total of 17 days due to ice and low water levels.

Species	Total Catch	Size Range (mm)	Average Size (mm)
Bull Trout	337	65-700	154
Brook Trout	2	81 & 173	127
Brown Trout	7	85-187	148
Mountain Whitefish	21	95-202	141
Rainbow Trout	4	159-268	199
Westslope Cutthroat	60	45-273	129

Pilgrim Creek Weir

This trap was installed on 7-10-02 and removed on 10-31-02 due to ice build up on the trap. This trap was located adjacent to the Noxon Rod and Gun Club. The trap was out of operation for a total of 3 days due to ice build up.

Species	Total Catch	Size Range (mm)	Average Size (mm)
Bull Trout	1	550	
Brook Trout	3	84-287	154
Mountain Whitefish	66	107-325	190
Northern Pike Minnow	14	160-317	217
Rainbow Trout	6	45-128	108
Westslope Cutthroat	8	63-400	189

Swamp Creek Weir

This trap was installed on 8-21-02 and as of today 12-8-02 is still in operation. This trap is located below the second Forest Service Bridge up Swamp Creek Road.

Species	Total Catch	Size Range (mm)	Average Size (mm)
Brook Trout	217	80-287	154
Brown Trout	9	84-316	172
Sculpin	1	57	
Westslope Cutthroat	26	108-227	184

Vermillion River Weir

This trap was installed on 8-15-02 and as of today 12-8-02 is still in operation. This trap is located ¼ mile below the mouth of Canyon Creek. This trap was out for a total of 14 days due to high water levels.

Species	Total Catch	Size Range (mm)	Average Size (mm)
Bull Trout	18	60-695	404
Brook Trout	3	120-175	147
Brown Trout	49	120-685	341
Mountain Whitefish	27	150-345	225

NATIVE FISH ABUNDANCE STUDIES 2002

Electrofishing Summary

Deep Creek

These totals represent the fish captured during multiple pass depletion electrofishing population estimates conducted on three sections of Deep Creek, on 8-8, 8-9, and 8-30-02.

Species	Total Catch	Size Range (mm)	Average Size (mm)
Bull Trout	2	179 & 246	213
Brook Trout	1	69	
Brown Trout	5	71-165	123
Mountain Whitefish	7	75-87	81
Westslope Cutthroat Trout	145	60-219	108

Marten Creek

These totals represent the fish captured during a multiple pass depletion electrofishing population estimate conducted on one section of Marten Creek, on 8-26-02.

Species	Total Catch	Size Range (mm)	Average Size (mm)
Brook Trout	4	67-209	165
Brown Trout	16	58-399	157
Sculpin	5	56-86	71
Westslope Cutthroat Trout	21	61-264	116

South Fork Marten Creek

These totals represent the fish captured during an electrofishing rescue effort for trout (including one bull trout) stranded in a pool located in an otherwise dry section of the South Fork Marten Creek on 10-5-02.

Species	Total Catch	Size Range (mm)	Average Size (mm)
Bull Trout	1	200	
Brook Trout	6	151-230	195
Rainbow Trout	12	151-184	167
Westslope Cutthroat Trout	15	140-257	193

Beaver Creek

These totals represent the fish captured during a multiple pass depletion electrofishing population estimate conducted on one section of Beaver Creek, on 8-27-02.

Species	Total Catch	Size Range (mm)	Average Size (mm)
Brook Trout	27	65-180	124

Swamp Creek

These totals represent the fish captured during a multiple pass depletion electrofishing population estimate conducted on one section of Swamp Creek, on 8-29-02.

Species	Total Catch	Size Range (mm)	Average Size (mm)
Brook Trout	12	68-183	107
Sculpin	2	72-96	84
Westslope Cutthroat Trout	134	46-241	110

Vermilion River

These totals represent the fish captured during electrofishing that was conducted for the capture of bull trout pelvic ray samples for a graduate student's thesis along scattered areas of the upper Vermilion River on 8-23-02.

Species	Total Catch	Size Range (mm)	Average Size (mm)
Bull Trout	13	57-190	97

Graves Creek

These totals represent the fish captured during multiple pass depletion electrofishing population estimates conducted on eight sections of Graves Creek, between 8-5 and 9-5-02

Species	Total Catch	Size Range (mm)	Average Size (mm)
Bull Trout	190	51-224	114
Brook Trout	45	94-279	144
Brown Trout	6	68-167	108
Mountain Whitefish	6	76-200	105
Westslope Cutthroat Trout	219	60-340	133

Thorne Creek (Tributary to Graves Creek)

These totals represent the fish captured during multiple pass depletion electrofishing population estimates conducted on two sections of Thorne Creek, on 7-31 and 8-1-02.

Species	Total Catch	Size Range (mm)	Average Size (mm)
Bull Trout	2	111 & 156	134
Westslope Cutthroat Trout	29	55-181	97

East Fork Bull River

These totals represent the fish captured during multiple pass depletion electrofishing population estimates conducted off and on from 8-2 through 8-22-02 on seven sections of the East Fork Bull River

Species	Total Catch	Size Range (mm)	Average Size (mm)
Bull Trout	93	42-232	117
Brook Trout	19	96-216	145
Brown Trout	78	44-269	131
Mountain Whitefish	19	89-325	200
Sculpin	47	51-101	72
Westslope Cutthroat	286	61-287	134

Snake Creek (tributary to East Fork Bull River)

These totals represent the fish captured during a multiple pass depletion electrofishing population estimate conducted on one section of Snake Creek, 8-20-02.

Species	Total Catch	Size Range (mm)	Average Size (mm)
Bull Trout	1	107	
Brown Trout	2	135&144	140
Sculpin	4	56-65	59
Westslope Cutthroat Trout	25	52-147	86