

16-01

Fisheries Investigations and Monitoring Program 2001

Species Taken	Approx. Number Taken	Size Range (inches)	Gear Used	Time of Year	Water and Location
Brown Trout	11	16-28	Boat Electro Fishing	July-September	Noxon Dam to Noxon Bridge
Bull Trout	1	25	Hook & Line	July-September	Bull River Bay
Brown Trout	1	22	Hook & Line	July-September	Below Noxon Dam
Bull Trout	1	24	Boat Electro Fishing	July-September	Rock Creek
Bull Trout	1	21	Boat Electro Fishing	July-September	Rock Creek

Adult Fish Passage Program 2001

Cabinet Reservoir Boat Electrofishing: July-September 2001

Species	Approx. Number Taken	Size Range (inches)
Bull Trout	4	24-30
Brown Trout	18	16-28

Juvenile Transport Program 2001

Fishers Screw Trap

The Fishers screw trap was deployed on 3-20-01 and was pulled on 7-31-01. The trap was checked daily for fish and cleaned of debris. This trap was out of operation for a total of four days due to debris.

Species	Total Catch	Size Range (mm)	Average Size (mm)
Brown Trout	213	25-95	68
Fry (unknown)	196	15-40	29
Sculpin	40	40-95	66
Long Nose Sucker	20	35-270	103
Mountain Whitefish	8	18-75	35
Unknown Oncorhynchus	8	10-40	25
Brook Trout	5	53-73	64
Sucker Fry	2	25 & 40	
Westslope Cutthroat Trout	2	81 & 194	
Rainbow Trout	1	118	
Red Side Shiner	1	130	
Large Scale Sucker	1	37	
Bull Trout	1	50	

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 4-25-01 and was pulled on 8-6-01. It was checked daily for fish and cleaned of debris. It was out of operation for 23 days due to high flow and debris.

Species	Total Catch	Size Range (mm)	Average Size (mm)
Westslope Cutthroat Trout	110	56-262	126
Fry (unknown)	78	15-35	25
Brook Trout	25	69-192	119
Brown Trout	13	15-62	78
Unknown Oncorhynchus	13	52-123	38
Rainbow Trout	9	69-145	81
Sculpin	6	55-69	62
Mountain Whitefish	6	280-335	310
Bull Trout	1	13	

East Fork Screw Trap

This trap was deployed on 4-28-01 and was pulled on 6-29-01. It was checked daily for fish and cleaned of debris. It was out of operation for 16 days due to debris and low water levels. This trap was located just upstream of the major weir.

Species	Total Catch	Size Range (mm)	Average Size (mm)
Brown Trout	48	60-195	89
Fry (unknown)	25	15-30	24
Westslope Cutthroat Trout	5	56-290	180
Unknown <i>Oncorhynchus</i>	3	10-52	26
Brook Trout	1	118	
Sculpin	1	84	

Rock Creek Screw Trap

This trap was deployed on 5-3-01 and was pulled on 6-7-01. It was checked daily for fish and cleaned of debris. It was out of operation for a total of 4 days due to high water and debris. This trap was located at the mouth of Rock Creek.

Species	Total Catch	Size Range (mm)	Average Size (mm)
Northern Pike Minnow	12	116-287	215
Lake Whitefish	3	270-440	373
Westslope Cutthroat Trout	3	353-370	361
Yellow Perch	3	165-234	194
Rainbow Trout	1	230	
Brown Trout	1	105	
Peamouth	1	260	

South Fork Weir

This trap was deployed on 4-12-01 and was removed on 10-31-01. It was located just downstream of the South Fork on the mainstem of Bull River. During it's operation time it was out of commission for a total of 40 days due to high water.

Species	Total Catch	Size Range (mm)	Average Size (mm)
Brook Trout	156	75-290	137
Westslope Cutthroat Trout	50	46-262	138
Mountain Whitefish	33	106-385	281
Bull Trout	8	235-440	303
Sculpin	3	45-100	70
Rainbow Trout	2	332 & 412	332 & 412
Brown Trout	1	112	

Rock Creek Weir

This trap was installed on 7-18-01 and was removed on 8-23-01 due to lack of water. The trap was reinstalled on 11-14-01 and washed out on 11-15-01. As of today 11-27-01 the water level is too high to reinstall, but we are hoping to put it back in this winter. It was located just upstream of the second Forest Service bridge.

Species	Total Catch	Size Range (mm)	Average Size (mm)
Westslope Cutthroat Trout	336	46-275	147
Bull Trout	33	105-215	161
Unknown Oncorhynchus	4	39-60	46

East Fork Major Weir

This trap was installed on 4-4-01 and the data represents to 11-20-01, although the trap is still operational to date (11-28-01). Due to high water and debris it was out of operation for a total of 27 days.

Species	Total Catch	Size Range (mm)	Average Size (mm)
Brown Trout	178	50-590	327
Mountain Whitefish	121	80-356	270
Brook Trout	117	56-210	87
Westslope Cutthroat Trout	105	47-306	137
Bull Trout	32	92-707	327
Sculpin	10	62-95	78
Rainbow Trout	2	57 & 78	57 & 78
Lake Whitefish	1	277	

East Fork Minor Weir

This trap was installed on 4-4-01 and the data represents up to 11-20-01. As of today 12-3-01 it is still in operation. This trap was out a total of 121 days due to high water and the restoration project taking place upstream of the trap.

Species	Total Catch	Size Range (mm)	Average Size (mm)
Brown Trout	41	78-585	331
Brook Trout	14	70-155	78
Westslope Cutthroat Trout	6	122-264	173
Bull Trout	5	180-664	347
Mountain Whitefish	3	255-340	252

Merwin Traps Spring/Summer 2001

During the first phase of Merwin trapping we had a total of four traps in Bull River bay. They were installed on 3-2-01 and removed on 7-9-01.

Species	Total Catch	Size Range (mm)
Black Bullhead	5	97-220
Bull Trout	6	299-410
Brook Trout	1	119
Brown Trout	111	71-386
Lake Trout	1	365
Yellow Perch	225	80-275
Long Nose Sucker	170	113-460
Large Scale Sucker	167	131-520
Lake Whitefish	7	144-475
Mountain Whitefish	31	100-417
Westslope Cutthroat Trout	7	171-294
Northern Pike Minnow	2177	80-620
Peamouth	4263	75-350
Pumpkinseed	108	68-136
Rainbow Trout	3	62-215
Red Side Shiner	456	54-294
Sculpin	8	70-90

Merwin Traps Fall 2001

During the second phase of Merwin trapping we had two traps in Bull River bay. They were installed on 9-4-01 and removed on 11-9-01.

Species	Total Catch	Size Range (mm)
Brown Trout	1	140
Long Nose Sucker	2	40
Large Scale Sucker	2	323 & 385
Lake Whitefish	1	85
Mountain Whitefish	112	80-100
Northern Pike Minnow	135	105-350
Peamouth	34	100-255
Pumpkin Seed	7	102-115
Red Side Shiner	34	75-95
Yellow Perch	8	150-230

NATIVE FISH ABUNDANCE STUDIES 2001

Vermilion River Drainage

The native fish abundance study for the Vermilion River was performed during the 2001 field season. Methods employed for this study that involved fish capture were:

- 1 Floating Merwin fish trap located near the mouth of the Vermilion River in Vermilion Bay.
- 1 Box and weir-type fish located at the extreme lower end of the Vermilion River, approximately 100-m upstream from the full pool level of Noxon Reservoir.
- Both a small drift boat electrofishing setup for the lower mainstem of the river, and backpack electrofishing gear for the rest of the drainage.

Merwin Trap Summary

The Merwin trap was deployed on 6/13/'01 and was checked for fish once a day until it was removed on 7/5/'01, total catch is as follows:

Species	Total Catch	Average Size (mm)
Yellow Perch	2,723	176
Peamouth	499	293
Pumpkinseed	206	120
Northern Pike-Minnow	173	296
Large-Scale Sucker	66	436
Smallmouth Bass	46	200
Black Bullhead	2	170
Brown Trout	2	122
Largemouth Bass	2	226
Long-Nose Sucker	1	371
Lake Whitefish	1	430

Weir Trap Summary

The weir trap was deployed on 7/30/'01 and was checked for fish once a day until it was removed on 10/30/'01, total catch is as follows:

Species	Total Catch	Size Range (mm)	Average Size (mm)
Brown Trout	76	72-765	169
Bull Trout	28	210-705	428
Westslope Cutthroat Trout	14	146-405	257
Brook Trout	10	88-210	152
Bull x Brook Trout	3	325-586	416
Mountain Whitefish	16	214-370	318
Northern Pike-Minnow	2	40-352	221
Smallmouth Bass	2	240-270	255

Electrofishing Summary

Electrofishing began on 6/26/'01 and continued off and on until 9/20/'01. Total catch is as follows: (sizes in mm):

Below Vermilion Falls						
Species	Vermilion River			Tributaries		
	Total	Size Range	Ave. Size	Total	Size Range	Ave. Size
BLT	122	70-434	151	6	114-128	121
WCT	384	70-376	122	161	62-222	113
BRK	41	102-228	146	6	99-147	120
BRN	74	70-410	188	1	-	213
YCTxWCT	-	-	-	31	64-224	155
RBTxWCT	11	89-205	121	-	-	-
RBT	1	-	344	-	-	-
BRKxBLT	1	-	305	-	-	-
MWF	1	-	95	-	-	-
Above Vermilion Falls						
Species	Vermilion River			Tributaries		
	Total	Size Range	Ave. Size	Total	Size Range	Ave. Size
WCT	87	71-234	142	10	80-163	113
BRK	274	55-198	100	129	73-211	116