

# RECLAMATION

*Managing Water in the West*

**Technical Report for Upper Snake River Biological Opinion #  
1009.2700**

## **Deadwood River Bull Trout Fisheries Surveys**

**Summary Report 2004**



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**Summary Report 2004**

**U.S. Bureau of Reclamation, Snake River Area Office - West  
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*by*

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## **Abstract**

Boise National Forest and USBR survey teams collected 1051 individual fish representing 6 species in the Deadwood River projects. Over 140 bull trout were captured, and 118 were tagged with 125 kHz PIT tags. Habitat surveys were conducted on 28 of the 31 stream sites sampled. One stream sampled had no fish and bull trout were found in seventeen of the 31 streams sampled that did have fish. Culverts on Scott Creek did not appear to limit movement of large bull trout upstream but may limit movement of smaller fish upstream. Rainbow trout and cutthroat trout were found together in three streams. Fisheries and habitat data will be entered into the Boise National Forest fisheries data base used for stream assessments. We were able to install the Deadwood River weir trap during the fall season from 9 September to 13 October 2005 to complete the movement and fluvial river habitat work. A total of 33 fish were collected representing four species. No bull trout were captured at the weir trap.

Work has been planned for 2005 that includes longitudinal temperature and trout movement and distribution studies in Wilson Creek, Warm Springs Creek, Whitehawk Creek, and the lower Deadwood River below Deadwood Dam. We also plan to install weirs near the confluence of mentioned tributaries and Deadwood River to monitor trout escapements and radio tag trout in the lower Deadwood River below Deadwood Dam to investigate fluvial patterns of movement and habitat use.

## **Introduction**

The U.S. Bureau of Reclamation (USBR) works cooperatively with Boise National Forest under a Memorandum of Understanding (MOU) to complete bull trout population monitoring and distribution work in the Deadwood and Boise River basins. This MOU was created in 1999 and modified in 2003 to cover cooperative activities for both agencies that are designed to meet requirements under consultations with the U.S. Fish and Wildlife Service (FWS) for bull trout. Objectives of the 2004 field season for work covered under the permit included:

1. Determine distribution and densities of fish populations and assess conditions in tributary streams
2. Determine movement patterns and preferred habitat of bull trout using the Deadwood River below Deadwood dam

## **Study Area**

The Deadwood River is a major tributary to the South Fork Payette River in the Boise National Forest. The Deadwood River is approximately 70 km long from headwaters (2124 meters above sea level) to mouth (1135 meters above sea level) and contains Deadwood dam at RKM 38 (Figure 1). Deadwood dam is an U.S. Bureau of Reclamation owned and operated facility constructed in 1931 with 199.8 km<sup>3</sup> (162,000 AF) volume. The dam is a concrete thick arch dam that is 50 m (165 feet) tall and drains 380 km<sup>2</sup> (111 square miles) of the Deadwood River watershed.

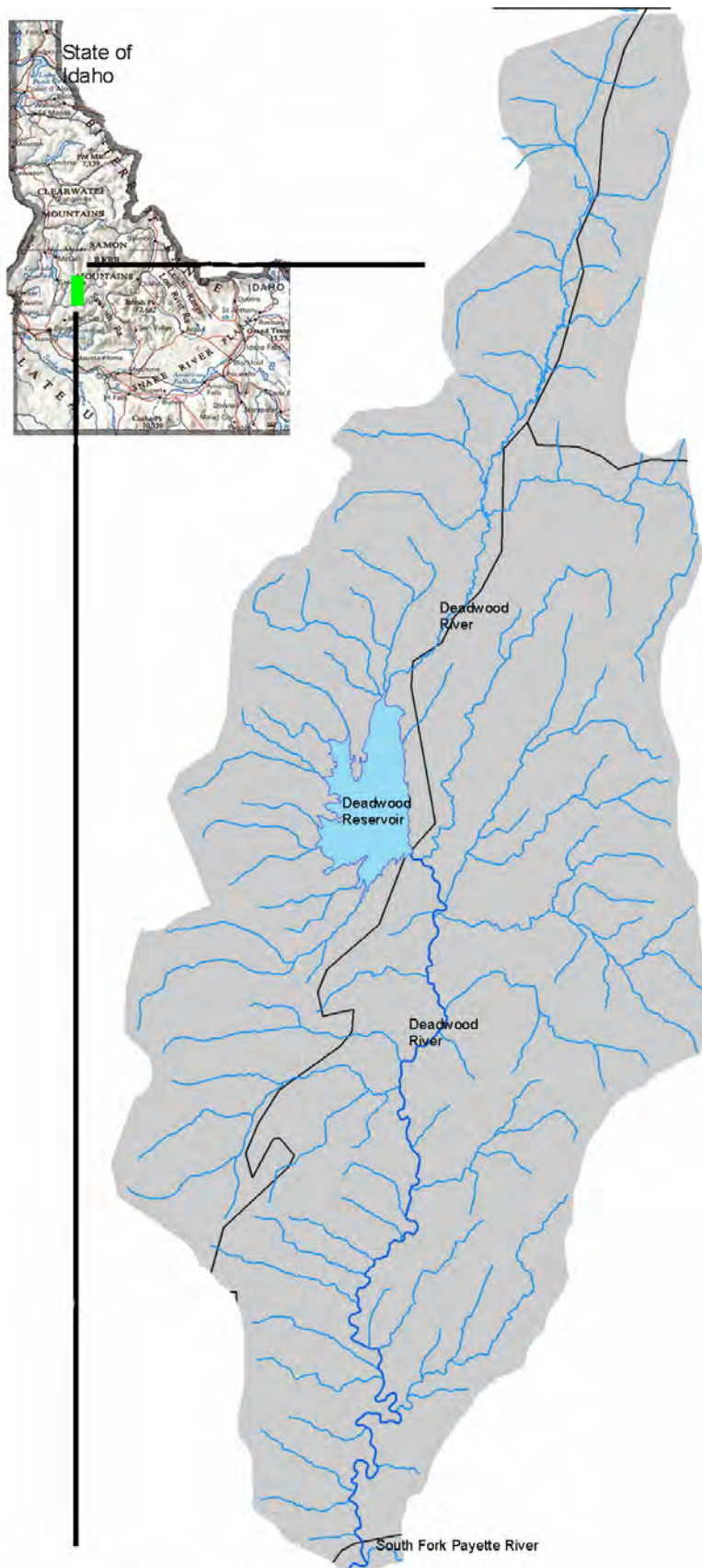


Figure 1. The Deadwood River basin from headwaters to mouth.

## Methods

### Electrofishing

Stream reaches were sampled by electrofishing. Multiple-pass backpack electrofishing was performed at 36, 100-m reaches across the Deadwood River watershed. Blocknets were placed at the beginning and end of each reach prior to sampling. All block-nets were checked each pass to collect any fish that were shocked and not captured. Smith-Root™ battery-operated electrofishers were used; batteries were changed every 3,500 to 4,000 operating seconds. Electrofishers were set between 500 and 900 volts and 30 to 40 Hz, depending on stream size and conductivity. The Deadwood River and its tributaries have low conductivity, which averaged 51  $\mu\text{S}$  (range: 28  $\mu\text{S}$  - 90  $\mu\text{S}$ ). Gasoline-powered generator electrofishing units were not used during any part of the sampling. Each stream reach was electrofished with as many as four passes. The number of passes required was dependent on the percent depletion between passes. For example, 50 percent depletion must be obtained between pass one and pass two, if not, 75 percent depletion had to be obtained between the sum of passes one and two and pass three. The fourth pass was the final pass if the previous requirements were not met. Numbers of fish per site were estimated using Moran and Zippen equations for equal effort sampling (Everhart and Youngs 1981).

All captured fish were identified to species and enumerated. Total length (TL) was recorded for all species. All amphibians were counted and released and adults were differentiated from tadpoles. Bull trout were anesthetized using diluted tricaine methanesulfonate (MS-222) (approximately 100 mg/L). When a fish was considered anesthetized (could not right itself), its total length was measured and recorded. Scale samples and fin clips were taken, and the fish was scanned for Passive Integrated Transponder (PIT) tags (AVID Computer Corporation, Norco, CA 1999). All bull trout > 100 mm TL that did not carry tags were tagged with 2.5 mm x 14 mm, 125 kHz PIT tags in accordance with instruction from Idaho Department of Fish and Game personnel (Russ Kiefer, IDFG, personal comm.). Bull trout were held and monitored in live wells until full recovery (minimum 15 minutes), and then returned to the stream in the vicinity of capture. All recaptured bull trout were measured so that data for growth over the time period for mark and recapture could be recorded.

### Fish Weir

A steel frame picket weir was operated across the major migratory corridor in the Deadwood River below most known spawning and rearing habitat for bull trout. A 27.40 m (90 ft.) long x 1.53 m (5 ft.) tall steel picket style weir with upstream and downstream traps was constructed across the full width of the Deadwood River (rkm 2.0). The trap was operated beginning of September through October. The weir was constructed of 9, 3.05 m (10 ft.) angle iron frames with steel conduit pickets spaced 1.25 cm (0.5 in.) apart. The trap was built following design recommendations and guidance from Russ Thurow (1999). Operating time was planned during the post spawning migration of bull trout documented in the Boise River system. Time and duration of the post-spawning run

coincides with periods of lowest river discharge (USBR 2004). Consideration was given to the flow information and a substrate anchored trap style was chosen. The trap design had been used by other agencies to target post spawning bull trout in a fluvial system, which fit the study goal. The trap acted as a migration barrier for all fish > 1.25 cm (0.5 in.) in width (approximately > 200 mm or 3.9 in. total length for bull trout), capturing fish in traps as they moved upstream or downstream. The trap was checked, and pickets cleaned one to two times per day. To minimize predation of small fish inside the downstream trap box, a pine bow was placed in one half of the box area to allow for cover (Russ Thurow 1999, personal comm.). Fish observed holding upstream of the weir were netted using dip nets when possible.

### Habitat Data Collection

Habitat condition was measured following modified R1/R4 methods of the USFS as described in Burton (1999).

Each stream site was located with a Garmin™ GPS 76, and UTM coordinates were recorded. Habitat was measured using the following methodology: waters were first categorized by the observer as slow or fast based on USFS training (Burton 1999). Different measurements are taken for either slow or fast water. A two-meter stadia rod marked in tenth meter units was used to measure all habitat variables. Field staff was trained each year for habitat measurement under guidance of the USFS.

Parameters collected for slow water habitats were: thalweg lengths, maximum depth, mean depth, crest depth, averaged wetted width, available cover area, and percent fines. Parameters collected for fast water habitats were: thalweg length, mean depth and wetted width.

### Definition of Habitat Parameters Collected

*Thalweg Length:* thalweg length was the measured distance in the path of a stream that followed the deepest part of the channel from the crest of the slow water unit to the formative feature of the habitat unit (Armantrout 1998).

*Crest depth:* crest depth is the downstream point of transition of slow water habitat types. It is the shallow downstream end of the depression in scour pools and the point of greatest flow over a dam.

*Maximum Depth:* maximum depth was the greatest depth measured in the slow water type.

*Mean Depth:* mean depth was taken at the area where average width was measured.

\*Depths were measured at approximately  $\frac{1}{4}$ ,  $\frac{1}{2}$ , and  $\frac{3}{4}$  of the channel width and the average was calculated by dividing the sum by four (to account for zero depth at the banks).

*Average Width:* average width was the wetted width measured at location of the pool that was the the mean depth calculated from the depth at the crest and maximum depth of the pool.

*Available Cover Area:* cover was categorized as large wood debris, overhanging vegetation, or undercut banks. All cover types had to be at least 0.30 m in width to be measured and capable of providing refuge to fish. All aggregates of wood were measured for combined total area (each piece was added to calculate a combined total). Each habitat feature was measured by length and width and area was calculated. The area of cover is reported in square meters (m<sup>2</sup>).

*Grid Fines:* percent fines were estimated at each slow water pool tail. Fines were measured using a 100-intersection grid. Field staff measured the percent of the wetted substrate area of pool tail that is made up of fine particles, defined as sand/silt less than 6 mm, by randomly tossing the grid. The cross section of the pool tail was subdivided into 3 segments: right, middle, and left. The grid intersections were counted only where substrate was smaller than 6 mm.

*Elevation:* site locations were mapped using UTM coordinates collected with a Garmin GPS 76 unit at each site. Waypoint locations were mapped and elevation (m) was taken from coordinates.

## **Results**

### Deadwood River bull trout distribution and density surveys (Objective 1)

Boise National Forest and Reclamation field crews conducted multiple pass electrofishing surveys at 31 sites in 13 streams (Table 1 and Figure 2). Survey work was conducted for four weeks beginning July 9 and finishing August 4, 2004. Data was also collected for water temperature, fish cover, and fine sediment.

Seventeen of the 31 sites sampled contained bull trout with one site containing no fish when sampled (Appendix Table 2). Other fish species captured included kokanee, rainbow and cutthroat trout (hybridization between cutthroat trout and rainbow trout was noted when apparent) and sculpin (Table 2). A total of 143 bull trout were captured, ranging from 36 mm total length to 225 mm total length (Figure 2). One hundred eighteen were tagged with 125 kHz PIT tags (tagged fish were 103 mm to 225 mm total length).

### Deadwood River Basin Weir and Radio Telemetry Study (Objective 2)

We were able to install the weir near Deadwood Campground as planned. The combined fish captured were 33 fish representing three genera and four species (Table 3). No bull trout were captured during the operation of the weir from 9 September to 13 October 2004. The majority of fish captured were mountain whitefish (39.4 % of total), in which the weir was operated during their spawning migration. Longnose dace (27.3% of total) and kokanee trout (18.2% of total) were the second and third most abundant fish found in the trap. Rainbow trout were the least abundant species captured (15.2 % of total), with total capture low in comparison to mountain whitefish. We were unable to capture bull trout to tag and monitor. We plan to pursue these objectives the 2005 field season.



Table 1. Stream locations and site identification codes for all sites sampled in the Deadwood River basin with multiple pass electrofishing in 2004.

<b>Stream Name</b>	<b>Site ID</b>	<b>Zone</b>	<b>UTME</b>	<b>UTMN</b>
Basin Cr. (A)	BSN-A	11T	604020	4912710
Basin Cr. (B)	BSN-B	11T	606750	4910796
Beaver Cr. (A)	BVR-A	11T	604797	4907972
Deadwood River (A)	DED-A	11T	612806	4929953
Deadwood River (B)	DED-B	11T	613231	4928307
Deadwood River (C)	DED-C	11T	613233	4927575
Deer Cr. (E)	DR-E	11T	614571	4917439
Goat Cr. (A)	GOAT-A	11T	608993	4916357
NF Deer Cr. (A)	NFDR-A	11T	615322	4919660
NF Deer Cr. (B)	NFDR-B	11T	615216	4918780
Noman Cr. (A)	NOMN-A	11T	609915	4900760
Noman Cr. (B)	NOMN-B	11T	611191	4901527
Scott Cr. (A)	SCOT-A	11T	600558	4893704
Scott Cr. (B)	SCOT-B	11T	601711	4894457
Scott Cr. (C)	SCOT-C	11T	602996	4896041
Scott Cr. (D)	SCOT-D	11T	604594	4897733
Scott Cr. (E)	SCOT-E	11T	606840	4897446
SF Deer Cr. (A)	SFDR-A	11T	615962	4913372
SF Deer Cr. (B)	SFDR-B	11T	616934	4915128
SF Deer Cr. (C)	SFDR-C	11T	617054	4916957
SF Deer Cr. (D)	SFDR-D	11T	616140	4918056
SF Scott Cr. (B)	SFSC-B	11T	606813	4897308
Trail Cr. (A)	TRL-A	11T	604634	4901853
Trail Cr. (B)	TRL-B	11T	601524	4901605
Warmsprings Cr. (A)	WSPR-A	11T	613379	4909584
Warmsprings Cr. (B)	WSPR-B	11T	614496	4907290
Warmsprings Cr. (D)	WSPR-D	11T	610695	4906873
Whitehawk Cr. (A)	WHTHK-A	11T	613260	4905258
Whitehawk Cr. (B)	WHTHK-B	11T	613266	4903519
Wild Buck Cr. (A)	WLBK-A	11T	607761	4913790
Wild Buck Cr. (B)	WLBK-B	11T	607179	4912557

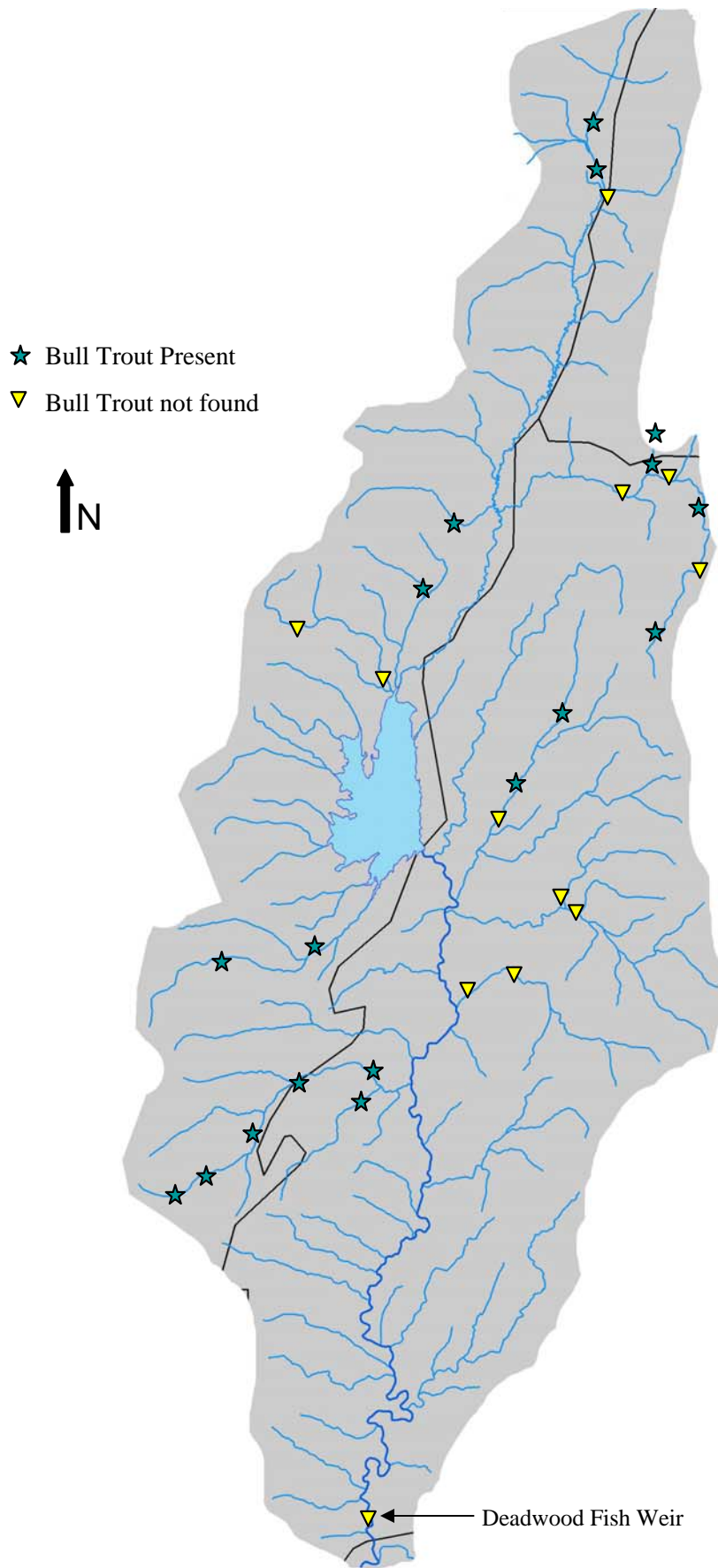


Figure 2. Stream sites sampled by electrofishing and weir in the Deadwood River basin 2004.

Table 2. Number of fish captured by species for Deadwood River electrofishing surveys.

<b>Species</b>	<b>Deadwood River Electrofish Capture Data</b>
Bull trout ( <i>Salvelinus confluentus</i> ) (BT)	147
Cutthroat trout (CT) ( <i>Oncorhynchus clarki lewisi</i> )	248
Largescale sucker (LSS) ( <i>Catostomus macrocheilus</i> )	0
Rainbow trout (RB) ( <i>Oncorhynchus mykiss</i> )	279
Brook Trout (BR) ( <i>Salvelinus fontinalis</i> )	0
Pike minnow (NPW) ( <i>Ptychocheilus oregonensis</i> )	0
Mountain whitefish (MWF) ( <i>Prosopium williamsoni</i> )	0
Chiselmouth (CM) ( <i>Acrocheilus alutaceus</i> )	0
Bridgelip sucker (BLS) ( <i>Catostomus columbianus</i> )	0
Brown Bullhead ( <i>Amieurus nebulosus</i> )	0
Smallmouth bass (SMB) ( <i>Micropterus dolomieu</i> )	0
Kokanee (KO) ( <i>Oncorhynchus nerka kennerlyi</i> )	15
Sculpin spp. (SC) ( <i>Cottus spp.</i> )	193
Longnose Dace (LND) ( <i>Rhinichthys cataractae</i> )	56
Total Fish	1051

Figure 3. Length frequency chart of bull trout captured in the Deadwood River Basin 2004.

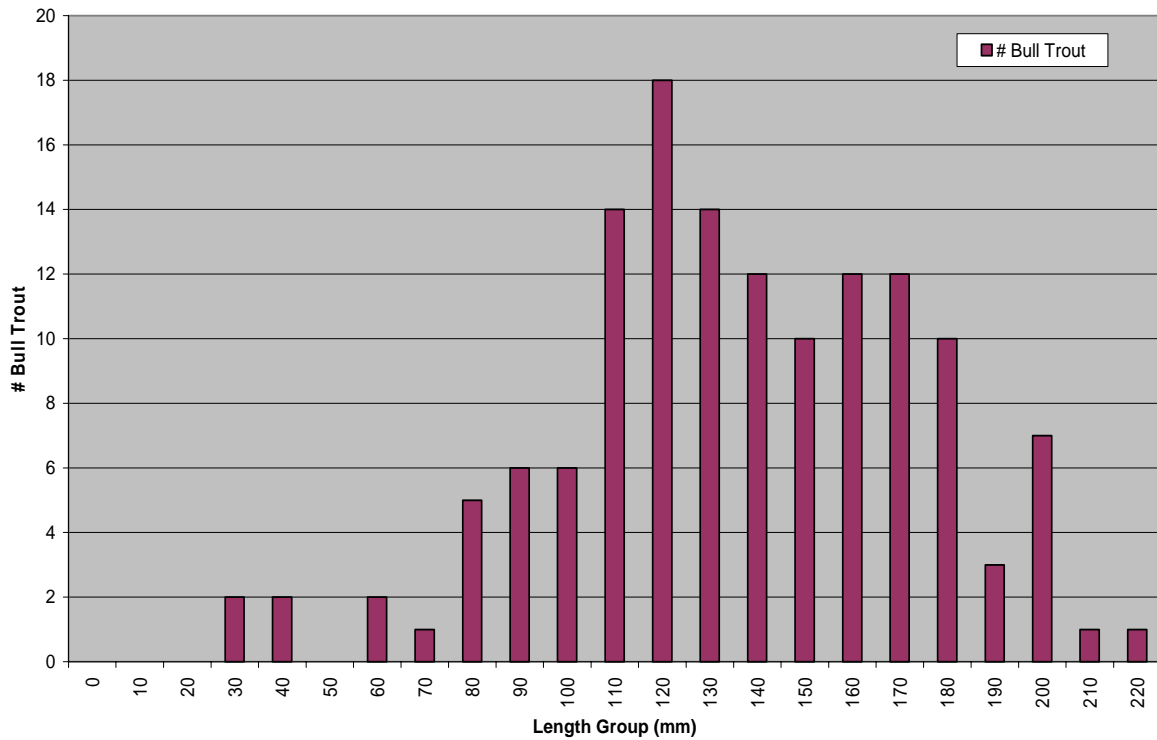


Table 3. Total number of fish captured from the Deadwood River weir trap 2004.

Species	Week 1	Week 2	Week 3	Week 4	Week 5	Total
Bull Trout ( <i>Salvelinus confluentus</i> )	0	0	0	0	0	<b>0</b>
Rainbow trout ( <i>Oncorhynchus mykiss</i> )	2	2	1	0	0	<b>5</b>
Mountain whitefish ( <i>Prosopium williamsoni</i> )	2	5	2	2	2	<b>13</b>
Long nosed Dace ( <i>Rhinichthys cataractae</i> )	8	1	0	0	0	<b>9</b>
Kokanee trout ( <i>Oncorhynchus nerka kennerlyi</i> )	3	2	1	0	0	<b>6</b>
<b>Total</b>	<b>15</b>	<b>10</b>	<b>4</b>	<b>2</b>	<b>2</b>	<b>33</b>

### **Literature Cited**

Armantrout, N.B. compiler. 1998. Glossary of aquatic habitat inventory terminology. American Fisheries Society, Bethesda, Maryland. 136 p.

Burton, T. 1999. Bull trout fisheries monitoring plan for the North Fork Boise River. Boise National Forest. Boise, Idaho.

Everhart, W. H., and W. D. Youngs. 1981. Principles of fishery science. 2d. ed. Cornell University Press. Ithica and London.

U.S. Bureau of Reclamation. 2004. Hydromet archive data at website:  
<http://mac1.pn.usbr.gov/pn6400/webhydrarcread.html>. Employee access form.

## Appendix

Appendix Table 1. Stream locations and site identification codes for all sites sampled in the Deadwood River basin with multiple pass electrofishing in 2004.

Site	Date	Species	Length		Site	Date	Species	Length
Pass # 1					Pass # 1			
WhitehawkB	7/9/2004	RB	158		WhitehawkA	7/12/2004	RB	129
WhitehawkB	7/9/2004	RB	169		WhitehawkA	7/12/2004	RB	96
WhitehawkB	7/9/2004	RB	155		WhitehawkA	7/12/2004	RB	107
WhitehawkB	7/9/2004	RB	163		WhitehawkA	7/12/2004	RB	100
WhitehawkB	7/9/2004	RB	147		WhitehawkA	7/12/2004	RB	82
WhitehawkB	7/9/2004	RB	138		WhitehawkA	7/12/2004	RB	97
WhitehawkB	7/9/2004	RB	72		WhitehawkA	7/12/2004	RB	94
WhitehawkB	7/9/2004	RB	83		WhitehawkA	7/12/2004	RB	58
WhitehawkB	7/9/2004	RB	174		WhitehawkA	7/12/2004	RB	58
WhitehawkB	7/9/2004	RB	63		WhitehawkA	7/12/2004	RB	88
Pass # 2					WhitehawkA	7/12/2004	RB	98
WhitehawkB	7/9/2004	RB	164		WhitehawkA	7/12/2004	RB	122
WhitehawkB	7/9/2004	RB	118		WhitehawkA	7/12/2004	RB	67
WhitehawkB	7/9/2004	RB	154		WhitehawkA	7/12/2004	RB	54
WhitehawkB	7/9/2004	RB	138		WhitehawkA	7/12/2004	RB	90
WhitehawkB	7/9/2004	RB	116		WhitehawkA	7/12/2004	RB	81
WhitehawkB	7/9/2004	RB	118		WhitehawkA	7/12/2004	RB	74
WhitehawkB	7/9/2004	RB	98		Pass # 2			
WhitehawkB	7/9/2004	RB	119		WhitehawkA	7/12/2004	RB	52
WhitehawkB	7/9/2004	RB	96		WhitehawkA	7/12/2004	RB	104
WhitehawkB	7/9/2004	RB	104		WhitehawkA	7/12/2004	RB	98
WhitehawkB	7/9/2004	RB	82		WhitehawkA	7/12/2004	RB	97
WhitehawkB	7/9/2004	RB	116		WhitehawkA	7/12/2004	RB	109
WhitehawkB	7/9/2004	RB	124		WhitehawkA	7/12/2004	RB	94
WhitehawkB	7/9/2004	RB	83		WhitehawkA	7/12/2004	RB	83
WhitehawkB	7/9/2004	RB	77		WhitehawkA	7/12/2004	RB	58
WhitehawkB	7/9/2004	TF	#3		Pass # 3			
Pass # 3					WhitehawkA	7/12/2004	RB	127
WhitehawkB	7/9/2004	RB	114		WhitehawkA	7/12/2004	RB	89
WhitehawkB	7/9/2004	RB	124		WhitehawkA	7/12/2004	RB	62
WhitehawkB	7/9/2004	RB	104					
WhitehawkB	7/9/2004	RB	64				RB=28	
		RB=29						
		TF=3						

Appendix Table 1. Continued.

Site	Date	Species	Length		Site	Date	Species	Length
Pass #1					Pass #1			
SF Deer D	7/19/2004	RB	100		Scott Creek E	7/20/2004	RB	172
SF Deer D	7/19/2004	RB	52		Scott Creek E	7/20/2004	RB	165
SF Deer D	7/19/2004	RB	170		Scott Creek E	7/20/2004	RB	164
SF Deer D	7/19/2004	RB	76		Scott Creek E	7/20/2004	RB	134
SF Deer D	7/19/2004	RB	91		Scott Creek E	7/20/2004	RB	109
SF Deer D	7/19/2004	RB	97		Scott Creek E	7/20/2004	RB	132
SF Deer D	7/19/2004	RB	95		Scott Creek E	7/20/2004	RB	70
SF Deer D	7/19/2004	RB	101		Scott Creek E	7/20/2004	RB	118
SF Deer D	7/19/2004	RB	121		Scott Creek E	7/20/2004	RB	62
SF Deer D	7/19/2004	RB	95		Scott Creek E	7/20/2004	RB	63
SF Deer D	7/19/2004	RB	155		Scott Creek E	7/20/2004	RB	66
SF Deer D	7/19/2004	RB	86		Scott Creek E	7/20/2004	BT	98
SF Deer D	7/19/2004	RB	62		Scott Creek E	7/20/2004	BT	107
SF Deer D	7/19/2004	RB	43		Scott Creek E	7/20/2004	TF	#2
SF Deer D	7/19/2004	RB	54		Pass #2			
SF Deer D	7/19/2004	RB	52		Scott Creek E	7/20/2004	RB	218
SF Deer D	7/19/2004	TF	#9		Scott Creek E	7/20/2004	RB	102
Pass #2					Scott Creek E	7/20/2004	RB	110
SF Deer D	7/19/2004	RB	186		Scott Creek E	7/20/2004	RB	71
SF Deer D	7/19/2004	RB	140		Scott Creek E	7/20/2004	RB	82
SF Deer D	7/19/2004	RB	85		Scott Creek E	7/20/2004	RB	71
SF Deer D	7/19/2004	RB	64		Scott Creek E	7/20/2004	BT	109
SF Deer D	7/19/2004	RB	81		Scott Creek E	7/20/2004	TF	#3
SF Deer D	7/19/2004	RB	106					
SF Deer D	7/19/2004	RB	65				RB=17	
SF Deer D	7/19/2004	RB	85				BT=3	
SF Deer D	7/19/2004	RB	68				TF=5	
SF Deer D	7/19/2004	RB	74					
SF Deer D	7/19/2004	RB	62					
SF Deer D	7/19/2004	RB	56					
Pass# 3								
SF Deer D	7/19/2004	RB	103					
SF Deer D	7/19/2004	RB	96					
SF Deer D	7/19/2004	RB	62					
SF Deer D	7/19/2004	RB	64					
SF Deer D	7/19/2004	RB	61					
SF Deer D	7/19/2004	RB	51					
SF Deer D	7/19/2004	TF	# 3					
		RB=34						
		TF=12						

Appendix Table 1. Continued.

Site	Date	Species	Length		Site	Date	Species	Length
Pass#1					Pass#1			
Scott Creek D	7/26/2004	RB	154		Noman A	7/27/2004	RB	146
Scott Creek D	7/26/2004	RB	115		Noman A	7/27/2004	RB	168
Scott Creek D	7/26/2004	BT	90		Noman A	7/27/2004	RB	128
Scott Creek D	7/26/2004	BT	95		Noman A	7/27/2004	RB	106
Scott Creek D	7/26/2004	BT	90		Noman A	7/27/2004	RB	100
Scott Creek D	7/26/2004	BT	87		Noman A	7/27/2004	RB	104
Scott Creek D	7/26/2004	BT	154		Noman A	7/27/2004	RB	68
Pass#2					Noman A	7/27/2004	RB	119
Scott Creek D	7/26/2004	RB	173		Noman A	7/27/2004	RB	138
Scott Creek D	7/26/2004	RB	82		Noman A	7/27/2004	RB	148
Scott Creek D	7/26/2004	RB	80		Noman A	7/27/2004	RB	89
Scott Creek D	7/26/2004	BT	203		Noman A	7/27/2004	RB	109
Scott Creek D	7/26/2004	BT	147		Noman A	7/27/2004	RB	88
Scott Creek D	7/26/2004	BT	137		Noman A	7/27/2004	RB	106
Scott Creek D	7/26/2004	TF	#2		Noman A	7/27/2004	RB	115
Pass#3					Noman A	7/27/2004	RB	101
Scott Creek D	7/26/2004	RB	160		Noman A	7/27/2004	RB	102
Scott Creek D	7/26/2004	BT	91		Noman A	7/27/2004	RB	78
Scott Creek D	7/26/2004	BT	133		Noman A	7/27/2004	RB	79
Scott Creek D	7/26/2004	TF	#6		Noman A	7/27/2004	RB	64
					Noman A	7/27/2004	RB	73
		RB=6			Noman A	7/27/2004	TF	#2
		BT=10			Pass#2			
		TF=8			Noman A	7/27/2004	RB	136
Pass # 1					Noman A	7/27/2004	RB	93
Nomans B	7/28/2004	RB	131		Noman A	7/27/2004	RB	76
Nomans B	7/28/2004	RB	134		Noman A	7/27/2004	RB	113
Nomans B	7/28/2004	RB	99		Noman A	7/27/2004	RB	71
Nomans B	7/28/2004	RB	150		Noman A	7/27/2004	TF	#4
Nomans B	7/28/2004	RB	110					
Pass # 2							RB=26	
Nomans B	7/28/2004	RB	95				TF=6	
Nomans B	7/28/2004	RB	127		Pass # 1			
Nomans B	7/28/2004	RB	95		Scott Creek C	7/29/2004	BT	186
Nomans B	7/28/2004	RB	95		Scott Creek C	7/29/2004	BT	225
Nomans B	7/28/2004	RB	97		Scott Creek C	7/29/2004	BT	171
Nomans B	7/28/2004	RB	98		Scott Creek C	7/29/2004	BT	187
Nomans B	7/28/2004	RB	137		Scott Creek C	7/29/2004	BT	183
Nomans B	7/28/2004	RB	129		Scott Creek C	7/29/2004	BT	122
Nomans B	7/28/2004	TF	# 15		Scott Creek C	7/29/2004	BT	168
Pass # 3					Scott Creek C	7/29/2004	BT	124
Nomans B	7/28/2004	RB	159		Scott Creek C	7/29/2004	RB	182
Nomans B	7/28/2004	RB	135		Scott Creek C	7/29/2004	RB	180
Nomans B	7/28/2004	RB	110		Pass # 2			
Nomans B	7/28/2004	RB	117		Scott Creek C	7/29/2004	BT	124
Nomans B	7/28/2004	TF	# 4		Scott Creek C	7/29/2004	BT	195
		RB=17			Scott Creek C	7/29/2004	BT	122
		TF=19					RB=2	
							BT=11	



Appendix Table 1. Continued.

Site	Date	Species	Length	Site	Date	Species	Length
Pass # 2				Pass # 1			
Wildbuck B	7/28/2004	CT	73	Warm Springs A	8/2/2004	BT	170
Wildbuck B	7/28/2004	CT	129	Warm Springs A	8/2/2004	BT	157
Wildbuck B	7/28/2004	CT	80	Warm Springs A	8/2/2004	BT	138
Wildbuck B	7/28/2004	CT	74	Warm Springs A	8/2/2004	BT	170
Wildbuck B	7/28/2004	CT	68	Warm Springs A	8/2/2004	BT	118
Wildbuck B	7/28/2004	CT	82	Warm Springs A	8/2/2004	BT	135
Wildbuck B	7/28/2004	CT	52	Warm Springs A	8/2/2004	BT	127
Wildbuck B	7/28/2004	CT	80	Warm Springs A	8/2/2004	BT	126
Wildbuck B	7/28/2004	CT	84	Warm Springs A	8/2/2004	BT	142
Wildbuck B	7/28/2004	CT	55	Warm Springs A	8/2/2004	BT	141
Wildbuck B	7/28/2004	CT	92	Warm Springs A	8/2/2004	BT	114
Wildbuck B	7/28/2004	SC	48	Warm Springs A	8/2/2004	TF	#2
Wildbuck B	7/28/2004	SC	90	Pass # 2			
Wildbuck B	7/28/2004	SC	85	Warm Springs A	8/2/2004	BT	126
Wildbuck B	7/28/2004	SC	81	Warm Springs A	8/2/2004	BT	94
Wildbuck B	7/28/2004	SC	83	Warm Springs A	8/2/2004	BT	126
Wildbuck B	7/28/2004	SC	86	Warm Springs A	8/2/2004	BT	117
Wildbuck B	7/28/2004	SC	37	Warm Springs A	8/2/2004	TF	#2
Wildbuck B	7/28/2004	SC	50			BT=15	
Wildbuck B	7/28/2004	SC	52			TF=4	
Wildbuck B	7/28/2004	SC	65	Pass # 1			
Wildbuck B	7/28/2004	SC	66	Deadwood A	8/2/2004	BT	44
Wildbuck B	7/28/2004	SC	73	Deadwood A	8/2/2004	BT	114
Wildbuck B	7/28/2004	SC	84	Deadwood A	8/2/2004	BT	154
Wildbuck B	7/28/2004	SC	55	Deadwood A	8/2/2004	BT	211
Wildbuck B	7/28/2004	SC	60	Deadwood A	8/2/2004	BT	206
Wildbuck B	7/28/2004	SC	33	Deadwood A	8/2/2004	BT	149
Wildbuck B	7/28/2004	SC	57	Deadwood A	8/2/2004	BT	177
Wildbuck B	7/28/2004	SC	32	Deadwood A	8/2/2004	BT	200
Wildbuck B	7/28/2004	SC	34	Deadwood A	8/2/2004	BT	171
Wildbuck B	7/28/2004	TF	#5	Deadwood A	8/2/2004	BT	194
Pass #3				Deadwood A	8/2/2004	BT	163
Wildbuck B	7/28/2004	CT	73	Deadwood A	8/2/2004	BT	124
Wildbuck B	7/28/2004	CT	70	Deadwood A	8/2/2004	BT	142
Wildbuck B	7/28/2004	CT	69	Deadwood A	8/2/2004	BT	116
Wildbuck B	7/28/2004	CT	70	Deadwood A	8/2/2004	BT	163
Wildbuck B	7/28/2004	CT	72	Deadwood A	8/2/2004	BT	111
Wildbuck B	7/28/2004	CT	73	Deadwood A	8/2/2004	BT	175
Wildbuck B	7/28/2004	CT	75	Deadwood A	8/2/2004	BT	147
Wildbuck B	7/28/2004	SC	90	Deadwood A	8/2/2004	BT	176
Wildbuck B	7/28/2004	SC	52	Deadwood A	8/2/2004	BT	115
Wildbuck B	7/28/2004	SC	61	Deadwood A	8/2/2004	BT	126
Wildbuck B	7/28/2004	SC	71	Pass # 2			
Wildbuck B	7/28/2004	SC	52	Deadwood A	8/2/2004	BT	170
Wildbuck B	7/28/2004	SC	49	Deadwood A	8/2/2004	BT	180
Wildbuck B	7/28/2004	TF	#3	Deadwood A	8/2/2004	BT	203
		CT=18		Deadwood A	8/2/2004	BT	162
		SC=25		Deadwood A	8/2/2004	BT	153
		TF=8		Deadwood A	8/2/2004	BT	167
				Deadwood A	8/2/2004	BT	162
				Deadwood A	8/2/2004	BT	113
						BT=29	

Appendix Table 1. Continued.

Site	Date	Species	Length		Site	Date	Species	Length
Pass # 1					Pass # 2 (Warm Springs D continued)			
Warm Springs D	8/2/2004	RB	204		Warm Springs D	8/2/2004	RB	163
Warm Springs D	8/2/2004	RB	155		Warm Springs D	8/2/2004	RB	219
Warm Springs D	8/2/2004	RB	145		Warm Springs D	8/2/2004	RB	73
Warm Springs D	8/2/2004	RB	146		Warm Springs D	8/2/2004	RB	116
Warm Springs D	8/2/2004	RB	106		Warm Springs D	8/2/2004	RB	64
Warm Springs D	8/2/2004	RB	121		Warm Springs D	8/2/2004	LND	73
Warm Springs D	8/2/2004	RB	80		Warm Springs D	8/2/2004	LND	72
Warm Springs D	8/2/2004	RB	134		Warm Springs D	8/2/2004	LND	73
Warm Springs D	8/2/2004	RB	148		Warm Springs D	8/2/2004	LND	74
Warm Springs D	8/2/2004	RB	106		Warm Springs D	8/2/2004	LND	64
Warm Springs D	8/2/2004	RB	111		Warm Springs D	8/2/2004	LND	71
Warm Springs D	8/2/2004	RB	86		Warm Springs D	8/2/2004	LND	81
Warm Springs D	8/2/2004	RB	73		Warm Springs D	8/2/2004	LND	82
Warm Springs D	8/2/2004	RB	72		Warm Springs D	8/2/2004	LND	72
Warm Springs D	8/2/2004	RB	108		Warm Springs D	8/2/2004	LND	64
Warm Springs D	8/2/2004	RB	64		Warm Springs D	8/2/2004	LND	71
Warm Springs D	8/2/2004	RB	61		Warm Springs D	8/2/2004	LND	68
Warm Springs D	8/2/2004	LND	54		Warm Springs D	8/2/2004	LND	78
Warm Springs D	8/2/2004	LND	75		Warm Springs D	8/2/2004	LND	51
Warm Springs D	8/2/2004	LND	96		Warm Springs D	8/2/2004	LND	55
Warm Springs D	8/2/2004	LND	64		Warm Springs D	8/2/2004	LND	56
Warm Springs D	8/2/2004	LND	71		Warm Springs D	8/2/2004	LND	60
Warm Springs D	8/2/2004	LND	57		Warm Springs D	8/2/2004	LND	68
Warm Springs D	8/2/2004	LND	62		Warm Springs D	8/2/2004	LND	61
Warm Springs D	8/2/2004	LND	78		Warm Springs D	8/2/2004	LND	49
Warm Springs D	8/2/2004	LND	82		Warm Springs D	8/2/2004	LND	53
Warm Springs D	8/2/2004	LND	96		Warm Springs D	8/2/2004	LND	61
Warm Springs D	8/2/2004	LND	62		Warm Springs D	8/2/2004	LND	67
Warm Springs D	8/2/2004	LND	62		Warm Springs D	8/2/2004	LND	74
Warm Springs D	8/2/2004	LND	64		Warm Springs D	8/2/2004	LND	61
Warm Springs D	8/2/2004	LND	66		Warm Springs D	8/2/2004	LND	69
Warm Springs D	8/2/2004	LND	65		Warm Springs D	8/2/2004	LND	69
Warm Springs D	8/2/2004	LND	92					
Warm Springs D	8/2/2004	LND	59				RB=22	
Warm Springs D	8/2/2004	LND	71				LND=53	
Warm Springs D	8/2/2004	LND	69					
Warm Springs D	8/2/2004	LND	46					
Warm Springs D	8/2/2004	LND	59					
Warm Springs D	8/2/2004	LND	63					
Warm Springs D	8/2/2004	LND	72					
Warm Springs D	8/2/2004	LND	64					
Warm Springs D	8/2/2004	LND	73					
Warm Springs D	8/2/2004	LND	71					

Appendix Table 1. Continued.

Site	Date	Species	Length		Site	Date	Species	Length
Pass # 1					Pass # 2			
Deadwood C	8/3/2004	CT	80		Deadwood C	8/3/2004	CT	76
Deadwood C	8/3/2004	CT	90		Deadwood C	8/3/2004	CT	82
Deadwood C	8/3/2004	CT	84		Deadwood C	8/3/2004	CT	82
Deadwood C	8/3/2004	CT	105		Deadwood C	8/3/2004	CT	90
Deadwood C	8/3/2004	CT	124		Deadwood C	8/3/2004	CT	95
Deadwood C	8/3/2004	CT	95		Deadwood C	8/3/2004	CT	87
Deadwood C	8/3/2004	CT	94		Deadwood C	8/3/2004	CT	86
Deadwood C	8/3/2004	CT	100		Deadwood C	8/3/2004	CT	96
Deadwood C	8/3/2004	CT	90		Deadwood C	8/3/2004	CT	75
Deadwood C	8/3/2004	CT	81		Deadwood C	8/3/2004	CT	75
Deadwood C	8/3/2004	CT	100		Deadwood C	8/3/2004	SC	80
Deadwood C	8/3/2004	CT	98		Deadwood C	8/3/2004	SC	72
Deadwood C	8/3/2004	CT	104		Deadwood C	8/3/2004	SC	75
Deadwood C	8/3/2004	CT	122		Deadwood C	8/3/2004	SC	62
Deadwood C	8/3/2004	CT	127		Deadwood C	8/3/2004	SC	76
Deadwood C	8/3/2004	CT	85		Deadwood C	8/3/2004	SC	68
Deadwood C	8/3/2004	CT	82		Deadwood C	8/3/2004	SC	66
Deadwood C	8/3/2004	CT	90		Deadwood C	8/3/2004	SC	65
Deadwood C	8/3/2004	CT	98		Deadwood C	8/3/2004	SC	81
Deadwood C	8/3/2004	CT	102		Deadwood C	8/3/2004	SC	47
Deadwood C	8/3/2004	CT	93		Deadwood C	8/3/2004	SC	56
Deadwood C	8/3/2004	CT	98		Deadwood C	8/3/2004	SC	45
Deadwood C	8/3/2004	CT	94		Deadwood C	8/3/2004	SC	64
Deadwood C	8/3/2004	CT	78		Deadwood C	8/3/2004	SC	70
Deadwood C	8/3/2004	CT	74		Deadwood C	8/3/2004	SC	66
Deadwood C	8/3/2004	CT	88		Deadwood C	8/3/2004	SC	59
Deadwood C	8/3/2004	CT	80		Deadwood C	8/3/2004	SC	50
Deadwood C	8/3/2004	CT	102		Deadwood C	8/3/2004	SC	64
Deadwood C	8/3/2004	CT	85		Deadwood C	8/3/2004	SC	52
Deadwood C	8/3/2004	CT	86		Deadwood C	8/3/2004	SC	40
Deadwood C	8/3/2004	CT	90		Deadwood C	8/3/2004	SC	50
Deadwood C	8/3/2004	CT	76		Deadwood C	8/3/2004	SC	38
Deadwood C	8/3/2004	CT	93		Deadwood C	8/3/2004	SC	30
Deadwood C	8/3/2004	CT	95		Deadwood C	8/3/2004	SC	30
Deadwood C	8/3/2004	CT	76		Deadwood C	8/3/2004	SC	50
Deadwood C	8/3/2004	CT	76		Deadwood C	8/3/2004	SC	40
Deadwood C	8/3/2004	CT	110		Deadwood C	8/3/2004	SC	36
Deadwood C	8/3/2004	CT	90		Deadwood C	8/3/2004	SC	34
Deadwood C	8/3/2004	CT	100		Deadwood C	8/3/2004	SC	36
Deadwood C	8/3/2004	CT	88		Deadwood C	8/3/2004	SC	32
Deadwood C	8/3/2004	CT	107					
Deadwood C	8/3/2004	CT	85				CT=60	
Deadwood C	8/3/2004	CT	78				SC=30	
Deadwood C	8/3/2004	CT	90				TF=1	
Deadwood C	8/3/2004	CT	98					
Deadwood C	8/3/2004	CT	91					
Deadwood C	8/3/2004	CT	80					
Deadwood C	8/3/2004	CT	109					
Deadwood C	8/3/2004	CT	103					
Deadwood C	8/3/2004	TF	#1					

Appendix Table 1. Continued.

Site	Date	Species	Length	Site	Date	Species	Length
Pass # 1				Pass # 1			
Basin B	8/4/2004	SC	91	Beaver A	8/4/2004	CT	84
Basin B	8/4/2004	SC	95	Beaver A	8/4/2004	CT	70
Basin B	8/4/2004	SC	78	Beaver A	8/4/2004	CT	82
Basin B	8/4/2004	SC	94	Beaver A	8/4/2004	CT	106
Basin B	8/4/2004	SC	68	Beaver A	8/4/2004	CT	110
Basin B	8/4/2004	SC	65	Beaver A	8/4/2004	CT	115
Basin B	8/4/2004	SC	74	Beaver A	8/4/2004	CT	70
Basin B	8/4/2004	SC	55	Beaver A	8/4/2004	CT	92
Basin B	8/4/2004	SC	69	Beaver A	8/4/2004	CT	72
Basin B	8/4/2004	SC	61	Beaver A	8/4/2004	CT	85
Basin B	8/4/2004	SC	56	Beaver A	8/4/2004	CT	74
Basin B	8/4/2004	SC	60	Beaver A	8/4/2004	CT	85
Basin B	8/4/2004	SC	58	Beaver A	8/4/2004	CT	75
Basin B	8/4/2004	SC	43	Beaver A	8/4/2004	CT	85
Basin B	8/4/2004	SC	55	Beaver A	8/4/2004	CT	82
Basin B	8/4/2004	SC	34	Beaver A	8/4/2004	CT	70
Basin B	8/4/2004	SC	42	Beaver A	8/4/2004	SC	90
Basin B	8/4/2004	SC	36	Beaver A	8/4/2004	SC	85
Basin B	8/4/2004	SC	40	Beaver A	8/4/2004	SC	35
Basin B	8/4/2004	SC	41	Beaver A	8/4/2004	RB	73
Basin B	8/4/2004	SC	35	Beaver A	8/4/2004	RB	68
Basin B	8/4/2004	SC	39	Beaver A	8/4/2004	RB	95
Basin B	8/4/2004	SC	36	Beaver A	8/4/2004	LND	73
Basin B	8/4/2004	CT	160	Beaver A	8/4/2004	LND	78
Basin B	8/4/2004	CT	85	Beaver A	8/4/2004	KO	#1
Basin B	8/4/2004	RB	74	Pass # 2			
Basin B	8/4/2004	RB	98	Beaver A	8/4/2004	CT	68
Basin B	8/4/2004	RB	90	Beaver A	8/4/2004	CT	55
Basin B	8/4/2004	RB	35	Beaver A	8/4/2004	CT	110
Pass # 2				Beaver A	8/4/2004	CT	88
Basin B	8/4/2004	SC	35	Beaver A	8/4/2004	CT	72
Basin B	8/4/2004	SC	118	Beaver A	8/4/2004	SC	94
Basin B	8/4/2004	SC	87	Beaver A	8/4/2004	SC	95
Basin B	8/4/2004	SC	80	Beaver A	8/4/2004	SC	68
Basin B	8/4/2004	SC	74	Beaver A	8/4/2004	SC	38
Basin B	8/4/2004	SC	61	Beaver A	8/4/2004	SC	#2
Basin B	8/4/2004	SC	47	Beaver A	8/4/2004	RB	90
Basin B	8/4/2004	SC	47	Beaver A	8/4/2004	LND	90
Basin B	8/4/2004	SC	41	Beaver A	8/4/2004	KO	#2
Basin B	8/4/2004	SC	43	Beaver A	8/4/2004	TF	#1
Basin B	8/4/2004	SC	42			CT=21	
Basin B	8/4/2004	SC	38			SC=8	
Basin B	8/4/2004	SC	39			RB=4	
		SC=36				LND=3	
		CT=2				KO=3	
		RB=4				TF=1	

Appendix Table 1. Continued.

Site	Date	Species	Length	Site	Date	Species	Length
Pass #1				Pass #3			
SF Deer A	7/13/2004	BT	62	SF Deer C	7/14/2004	RB	140
SF Deer A	7/13/2004	BT	103	SF Deer C	7/14/2004	RB	155
Pass #2				SF Deer C	7/14/2004	RB	157
SF Deer A	7/13/2004	RB	155	SF Deer C	7/14/2004	RB	68
SF Deer A	7/13/2004	RB	102	SF Deer C	7/14/2004	RB	32
SF Deer A	7/13/2004	BT	121	SF Deer C	7/14/2004	BT	180
SF Deer A	7/13/2004	BT	164			RB=35	
Pass #3						BT=2	
SF Deer A	Total	RB = 2 BT = 4		Pass #1			
Pass#1				NF Deer A	7/14/2004	RB	173
SF Deer B	7/13/2004	RB	112	NF Deer A	7/14/2004	RB	205
Pass #2				NF Deer A	7/14/2004	RB	155
SF Deer B	7/13/2004	RB	92	NF Deer A	7/14/2004	BT	142
SF Deer B	7/13/2004	RB	80	NF Deer A	7/14/2004	BT	178
SF Deer B	7/13/2004	RB	45	NF Deer A	7/14/2004	BT	143
Pass #3				NF Deer A	7/14/2004	BT	132
SF Deer B	7/13/2004	RB	92	NF Deer A	7/14/2004	BT	125
		RB = 5		NF Deer A	7/14/2004	BT	132
Pass#1				NF Deer A	7/14/2004	BT	132
SF Deer C	7/14/2004	RB	191	NF Deer A	7/14/2004	BT	143
SF Deer C	7/14/2004	RB	108	NF Deer A	7/14/2004	BT	169
SF Deer C	7/14/2004	RB	158	NF Deer A	7/14/2004	BT	180
SF Deer C	7/14/2004	RB	108	NF Deer A	7/14/2004	BT	142
SF Deer C	7/14/2004	RB	141	NF Deer A	7/14/2004	BT	144
SF Deer C	7/14/2004	RB	103	NF Deer A	7/14/2004	BT	137
SF Deer C	7/14/2004	RB	95	NF Deer A	7/14/2004	BT	73
SF Deer C	7/14/2004	RB	105	NF Deer A	7/14/2004	BT	128
SF Deer C	7/14/2004	RB	98	Pass #2			
SF Deer C	7/14/2004	RB	93	NF Deer A	7/14/2004	BT	187
SF Deer C	7/14/2004	RB	65	NF Deer A	7/14/2004	BT	135
SF Deer C	7/14/2004	RB	103	NF Deer A	7/14/2004	BT	138
SF Deer C	7/14/2004	RB	90	NF Deer A	7/14/2004	RB	47
SF Deer C	7/14/2004	RB	53			RB = 4	
SF Deer C	7/14/2004	RB	50			BT=18	
SF Deer C	7/14/2004	RB	51	Pass#1			
SF Deer C	7/14/2004	BT	134	NF Deer B	7/15/2004	RB	128
Pass #2				NF Deer B	7/15/2004	RB	143
SF Deer C	7/14/2004	RB	95	NF Deer B	7/15/2004	RB	188
SF Deer C	7/14/2004	RB	93	NF Deer B	7/15/2004	RB	158
SF Deer C	7/14/2004	RB	112	NF Deer B	7/15/2004	RB	139
SF Deer C	7/14/2004	RB	58	NF Deer B	7/15/2004	RB	120
SF Deer C	7/14/2004	RB	84	NF Deer B	7/15/2004	RB	130
SF Deer C	7/14/2004	RB	145	NF Deer B	7/15/2004	TF	# 5
SF Deer C	7/14/2004	RB	118	Pass#2			
SF Deer C	7/14/2004	RB	127	NF Deer B	7/15/2004	RB	154
SF Deer C	7/14/2004	RB	109	NF Deer B	7/15/2004	RB	126
SF Deer C	7/14/2004	RB	97	NF Deer B	7/15/2004	RB	105
SF Deer C	7/14/2004	RB	88	NF Deer B	7/15/2004	BT	182
SF Deer C	7/14/2004	RB	57	NF Deer B	7/15/2004	BT	134
SF Deer C	7/14/2004	RB	92	NF Deer B	7/15/2004	RB	119
SF Deer C	7/14/2004	RB	58	NF Deer B	7/15/2004	TF	# 2
						RB=11	
						BT=2	
						TF=7	

Appendix Table 1. Continued.

Site	Date	Species	Length		Site	Date	Species	Length
Pass #1								
SF Scott Cr.	7/20/2004	RB	113		Pass #1			
SF Scott Cr.	7/20/2004	RB	96		Deer Creek E	7/22/2004	RB	130
SF Scott Cr.	7/20/2004	RB	103		Deer Creek E	7/22/2004	RB	105
SF Scott Cr.	7/20/2004	RB	59		Deer Creek E	7/22/2004	RB	106
SF Scott Cr.	7/20/2004	RB	178		Deer Creek E	7/22/2004	RB	125
SF Scott Cr.	7/20/2004	BT	82		Deer Creek E	7/22/2004	RB	135
SF Scott Cr.	7/20/2004	BT	163		Deer Creek E	7/22/2004	TF	#2
Pass #2					Pass# 2			
SF Scott Cr.	7/20/2004	RB	76		Deer Creek E	7/22/2004	RB	155
SF Scott Cr.	7/20/2004	BT	170		Deer Creek E	7/22/2004	RB	58
		RB=6			Deer Creek E	7/22/2004	RB	90
		BT=3			Deer Creek E	7/22/2004	RB	52
					Deer Creek E	7/22/2004	RB	100
Pass #1					Deer Creek E	7/22/2004	RB	130
Scott Creek B	7/21/2004	BT	124		Deer Creek E	7/22/2004	RB	88
Scott Creek B	7/21/2004	BT	204		Deer Creek E	7/22/2004	RB	92
Scott Creek B	7/21/2004	BT	156		Deer Creek E	7/22/2004	RB	68
Scott Creek B	7/21/2004	BT	206		Pass # 3			
Scott Creek B	7/21/2004	BT	178		Deer Creek E	7/22/2004	RB	102
Scott Creek B	7/21/2004	BT	154		Deer Creek E	7/22/2004	RB	103
Scott Creek B	7/21/2004	BT	151		Deer Creek E	7/22/2004	RB	66
Pass #2					Deer Creek E	7/22/2004	RB	104
Scott Creek B	7/21/2004	BT	151		Pass # 4			
		BT=8			Deer Creek E	7/22/2004	RB	91
Pass #1							RB=19	
Scott Creek A	7/21/2004	BT	179				TF =2	
Scott Creek A	7/21/2004	BT	209		Pass # 1			
Scott Creek A	7/21/2004	BT	163		Trail B	8/3/2004	BT	106
Scott Creek A	7/21/2004	BT	155		Trail B	8/3/2004	BT	181
Scott Creek A	7/21/2004	BT	200		Trail B	8/3/2004	BT	127
		BT=5			Trail B	8/3/2004	BT	124
					Trail B	8/3/2004	BT	105
Pass#1					Pass # 2			
Warm Springs B	7/27/2004	BT	155		Trail B	8/3/2004	BT	133
Warm Springs B	7/27/2004	BT	141		Trail B	8/3/2004	BT	118
Warm Springs B	7/27/2004	BT	112		Trail B	8/3/2004	BT	197
Warm Springs B	7/27/2004	BT	112		Trail B	8/3/2004	BT	110
Warm Springs B	7/27/2004	BT	126		Pass # 3			
Warm Springs B	7/27/2004	BT	166		Trail B	8/3/2004	BT	144
Warm Springs B	7/27/2004	BT	95		Trail B	8/3/2004	BT	168
Warm Springs B	7/27/2004	BT	157					
Warm Springs B	7/27/2004	BT	90				BT=11	
Warm Springs B	7/27/2004	BT	106					
Warm Springs B	7/27/2004	BT	95					
Warm Springs B	7/27/2004	BT	116					
Warm Springs B	7/27/2004	BT	117					
Pass#2								
Warm Springs B	7/27/2004	BT	137					
Warm Springs B	7/27/2004	BT	130					
		BT=15						

Appendix Table 1. Continued.

Site	Date	Species	Length		Site	Date	Species	Length
Pass#1					Pass # 1			
Wildbuck B	7/28/2004	CT	130		Trail A	8/3/2004	BT	124
Wildbuck B	7/28/2004	CT	92		Trail A	8/3/2004	CT	130
Wildbuck B	7/28/2004	CT	87		Trail A	8/3/2004	CT	179
Wildbuck B	7/28/2004	CT	80		Trail A	8/3/2004	CT	125
Wildbuck B	7/28/2004	CT	62		Trail A	8/3/2004	CT	113
Wildbuck B	7/28/2004	CT	105		Trail A	8/3/2004	CT	140
Wildbuck B	7/28/2004	CT	75		Trail A	8/3/2004	CT	139
Wildbuck B	7/28/2004	CT	69		Trail A	8/3/2004	CT	111
Wildbuck B	7/28/2004	CT	70		Trail A	8/3/2004	CT	85
Wildbuck B	7/28/2004	CT	79		Trail A	8/3/2004	CT	87
Wildbuck B	7/28/2004	CT	82		Trail A	8/3/2004	CT	73
Wildbuck B	7/28/2004	CT	79		Trail A	8/3/2004	CT	126
Wildbuck B	7/28/2004	CT	82		Trail A	8/3/2004	CT	82
Wildbuck B	7/28/2004	CT	79		Trail A	8/3/2004	CT	71
Wildbuck B	7/28/2004	CT	82		Trail A	8/3/2004	CT	83
Wildbuck B	7/28/2004	CT	82		Pass # 2	Dead Battery		
Wildbuck B	7/28/2004	CT	74				BT=1	
Wildbuck B	7/28/2004	CT	67				CT=14	
Wildbuck B	7/28/2004	SC	85		Basin A	8/4/2004	No Fish	
Wildbuck B	7/28/2004	SC	82					
Wildbuck B	7/28/2004	SC	87					
Wildbuck B	7/28/2004	SC	72					
Wildbuck B	7/28/2004	SC	54					
Wildbuck B	7/28/2004	SC	56					
Wildbuck B	7/28/2004	SC	78					
Wildbuck B	7/28/2004	SC	57					
Wildbuck B	7/28/2004	SC	66					
Wildbuck B	7/28/2004	SC	62					
Wildbuck B	7/28/2004	SC	58					
Wildbuck B	7/28/2004	SC	53					
Wildbuck B	7/28/2004	SC	54					
Wildbuck B	7/28/2004	SC	41					
Wildbuck B	7/28/2004	SC	46					
Wildbuck B	7/28/2004	SC	53					
Wildbuck B	7/28/2004	SC	62					
Wildbuck B	7/28/2004	SC	61					
Wildbuck B	7/28/2004	SC	56					
Wildbuck B	7/28/2004	SC	59					
Wildbuck B	7/28/2004	SC	56					
Wildbuck B	7/28/2004	SC	38					
Wildbuck B	7/28/2004	SC	35					
Wildbuck B	7/28/2004	SC	34					
Wildbuck B	7/28/2004	SC	36					
Wildbuck B	7/28/2004	SC	35					
Wildbuck B	7/28/2004	TF	#13					
		CT=18						
		SC=26						
		TF=13						

Appendix Table 1. Continued.

Site	Date	Species	Length		Site	Date	Species	Length
Pass # 1					Pass # 2			
Deadwood B	8/3/2004	CT	116		Deadwood B	8/3/2004	CT	115
Deadwood B	8/3/2004	CT	85		Deadwood B	8/3/2004	CT	95
Deadwood B	8/3/2004	CT	108		Deadwood B	8/3/2004	CT	106
Deadwood B	8/3/2004	CT	96		Deadwood B	8/3/2004	CT	93
Deadwood B	8/3/2004	CT	126		Deadwood B	8/3/2004	CT	96
Deadwood B	8/3/2004	CT	83		Deadwood B	8/3/2004	CT	92
Deadwood B	8/3/2004	CT	98		Deadwood B	8/3/2004	CT	142
Deadwood B	8/3/2004	CT	91		Deadwood B	8/3/2004	CT	79
Deadwood B	8/3/2004	CT	93		Deadwood B	8/3/2004	CT	81
Deadwood B	8/3/2004	CT	102		Deadwood B	8/3/2004	CT	90
Deadwood B	8/3/2004	CT	94		Deadwood B	8/3/2004	SC	72
Deadwood B	8/3/2004	CT	85		Deadwood B	8/3/2004	SC	83
Deadwood B	8/3/2004	CT	89		Deadwood B	8/3/2004	SC	73
Deadwood B	8/3/2004	CT	93		Deadwood B	8/3/2004	SC	75
Deadwood B	8/3/2004	CT	77		Deadwood B	8/3/2004	SC	78
Deadwood B	8/3/2004	CT	78		Deadwood B	8/3/2004	SC	62
Deadwood B	8/3/2004	CT	90		Deadwood B	8/3/2004	SC	60
Deadwood B	8/3/2004	CT	104		Deadwood B	8/3/2004	SC	67
Deadwood B	8/3/2004	CT	92		Deadwood B	8/3/2004	SC	68
Deadwood B	8/3/2004	CT	133		Deadwood B	8/3/2004	SC	82
Deadwood B	8/3/2004	CT	100		Deadwood B	8/3/2004	SC	64
Deadwood B	8/3/2004	CT	75		Deadwood B	8/3/2004	SC	52
Deadwood B	8/3/2004	CT	92		Deadwood B	8/3/2004	SC	48
Deadwood B	8/3/2004	CT	80		Deadwood B	8/3/2004	SC	55
Deadwood B	8/3/2004	CT	78		Deadwood B	8/3/2004	SC	52
Deadwood B	8/3/2004	CT	86		Deadwood B	8/3/2004	SC	54
Deadwood B	8/3/2004	CT	85		Deadwood B	8/3/2004	SC	36
Deadwood B	8/3/2004	CT	81		Deadwood B	8/3/2004	SC	36
Deadwood B	8/3/2004	CT	96		Deadwood B	8/3/2004	SC	40
Deadwood B	8/3/2004	CT	91				CT=40	
Deadwood B	8/3/2004	SC	91				SC=41	
Deadwood B	8/3/2004	SC	85					
Deadwood B	8/3/2004	SC	48					
Deadwood B	8/3/2004	SC	100					
Deadwood B	8/3/2004	SC	68					
Deadwood B	8/3/2004	SC	97					
Deadwood B	8/3/2004	SC	94					
Deadwood B	8/3/2004	SC	71					
Deadwood B	8/3/2004	SC	80					
Deadwood B	8/3/2004	SC	59					
Deadwood B	8/3/2004	SC	56					
Deadwood B	8/3/2004	SC	56					
Deadwood B	8/3/2004	SC	80					
Deadwood B	8/3/2004	SC	50					
Deadwood B	8/3/2004	SC	36					
Deadwood B	8/3/2004	SC	48					
Deadwood B	8/3/2004	SC	36					
Deadwood B	8/3/2004	SC	30					
Deadwood B	8/3/2004	SC	29					
Deadwood B	8/3/2004	SC	36					
Deadwood B	8/3/2004	SC	40					
Deadwood B	8/3/2004	SC	36					



Appendix Table 1. Continued.

Site	Date	Species	Length		Site	Date	Species	Length
Pass # 1					Pass # 2			
Wildbuck A	8/4/2004	CT	90		Wildbuck A	8/4/2004	CT	96
Wildbuck A	8/4/2004	CT	80		Wildbuck A	8/4/2004	CT	79
Wildbuck A	8/4/2004	CT	135		Wildbuck A	8/4/2004	CT	83
Wildbuck A	8/4/2004	CT	91		Wildbuck A	8/4/2004	CT	82
Wildbuck A	8/4/2004	CT	98		Wildbuck A	8/4/2004	CT	93
Wildbuck A	8/4/2004	CT	107		Wildbuck A	8/4/2004	CT	84
Wildbuck A	8/4/2004	CT	97		Wildbuck A	8/4/2004	CT	93
Wildbuck A	8/4/2004	CT	96		Wildbuck A	8/4/2004	CT	93
Wildbuck A	8/4/2004	CT	85		Wildbuck A	8/4/2004	CT	74
Wildbuck A	8/4/2004	CT	91		Wildbuck A	8/4/2004	CT	92
Wildbuck A	8/4/2004	CT	80		Wildbuck A	8/4/2004	CT	61
Wildbuck A	8/4/2004	CT	82		Wildbuck A	8/4/2004	CT	76
Wildbuck A	8/4/2004	KO	30		Wildbuck A	8/4/2004	KO	36
Wildbuck A	8/4/2004	KO	90		Wildbuck A	8/4/2004	BT	39
Wildbuck A	8/4/2004	KO	55		Wildbuck A	8/4/2004	BT	81
Wildbuck A	8/4/2004	KO	57		Wildbuck A	8/4/2004	BT	85
Wildbuck A	8/4/2004	KO	100		Pass # 3			
Wildbuck A	8/4/2004	KO	45		Wildbuck A	8/4/2004	CT	82
Wildbuck A	8/4/2004	KO	58		Wildbuck A	8/4/2004	CT	104
Wildbuck A	8/4/2004	KO	80		Wildbuck A	8/4/2004	CT	82
Wildbuck A	8/4/2004	KO	75		Wildbuck A	8/4/2004	CT	76
Wildbuck A	8/4/2004	KO	43		Wildbuck A	8/4/2004	CT	89
Wildbuck A	8/4/2004	SC	56		Wildbuck A	8/4/2004	CT	85
Wildbuck A	8/4/2004	SC	47		Wildbuck A	8/4/2004	RB	104
Wildbuck A	8/4/2004	SC	57		Wildbuck A	8/4/2004	SC	73
Wildbuck A	8/4/2004	SC	43		Wildbuck A	8/4/2004	SC	76
Wildbuck A	8/4/2004	SC	42		Wildbuck A	8/4/2004	SC	92
Wildbuck A	8/4/2004	SC	46		Wildbuck A	8/4/2004	SC	93
Wildbuck A	8/4/2004	SC	51		Wildbuck A	8/4/2004	SC	36
Wildbuck A	8/4/2004	SC	50		Wildbuck A	8/4/2004	SC	82
Wildbuck A	8/4/2004	SC	56		Wildbuck A	8/4/2004	SC	81
Wildbuck A	8/4/2004	SC	47		Wildbuck A	8/4/2004	SC	48
Wildbuck A	8/4/2004	SC	46		Wildbuck A	8/4/2004	SC	65
Wildbuck A	8/4/2004	SC	32		Wildbuck A	8/4/2004	SC	54
Wildbuck A	8/4/2004	SC	29		Wildbuck A	8/4/2004	SC	49
Wildbuck A	8/4/2004	SC	31		Wildbuck A	8/4/2004	SC	62
Wildbuck A	8/4/2004	BT	89		Wildbuck A	8/4/2004	SC	56
Wildbuck A	8/4/2004	BT	82		Wildbuck A	8/4/2004	SC	#2
Wildbuck A	8/4/2004	BT	36		Wildbuck A	8/4/2004	BT	40
Wildbuck A	8/4/2004	BT	YOY		Wildbuck A	8/4/2004	BT	60
Wildbuck A	8/4/2004	TF	#1		Wildbuck A	8/4/2004	BT	YOY
					Wildbuck A	8/4/2004	KO	36
							CT=30	
							RB=1	
							SC=28	
							BT=10	
							KO=12	

Appendix Table 1. Continued.

Site	Date	Species	Length		Site	Date	Species	Length
Pass # 1					Pass # 2			
Goat Creek A	8/4/2004	CT	90		Goat Creek A	8/4/2004	CT	85
Goat Creek A	8/4/2004	CT	99		Goat Creek A	8/4/2004	CT	98
Goat Creek A	8/4/2004	CT	141		Goat Creek A	8/4/2004	CT	90
Goat Creek A	8/4/2004	CT	116		Goat Creek A	8/4/2004	CT	87
Goat Creek A	8/4/2004	CT	102		Goat Creek A	8/4/2004	CT	94
Goat Creek A	8/4/2004	CT	99		Goat Creek A	8/4/2004	CT	70
Goat Creek A	8/4/2004	CT	82		Goat Creek A	8/4/2004	CT	90
Goat Creek A	8/4/2004	CT	78		Goat Creek A	8/4/2004	CT	80
Goat Creek A	8/4/2004	CT	76		Goat Creek A	8/4/2004	TF	#16
Goat Creek A	8/4/2004	CT	92					
Goat Creek A	8/4/2004	CT	82				CT=46	
Goat Creek A	8/4/2004	CT	113				RB=7	
Goat Creek A	8/4/2004	CT	85				BT=1	
Goat Creek A	8/4/2004	CT	92				TF=23	
Goat Creek A	8/4/2004	CT	82					
Goat Creek A	8/4/2004	CT	74					
Goat Creek A	8/4/2004	CT	88					
Goat Creek A	8/4/2004	CT	186					
Goat Creek A	8/4/2004	CT	76					
Goat Creek A	8/4/2004	CT	94					
Goat Creek A	8/4/2004	CT	92					
Goat Creek A	8/4/2004	CT	74					
Goat Creek A	8/4/2004	CT	82					
Goat Creek A	8/4/2004	CT	80					
Goat Creek A	8/4/2004	CT	121					
Goat Creek A	8/4/2004	CT	84					
Goat Creek A	8/4/2004	CT	74					
Goat Creek A	8/4/2004	CT	81					
Goat Creek A	8/4/2004	CT	81					
Goat Creek A	8/4/2004	CT	79					
Goat Creek A	8/4/2004	CT	92					
Goat Creek A	8/4/2004	CT	89					
Goat Creek A	8/4/2004	CT	96					
Goat Creek A	8/4/2004	CT	81					
Goat Creek A	8/4/2004	CT	82					
Goat Creek A	8/4/2004	CT	98					
Goat Creek A	8/4/2004	CT	86					
Goat Creek A	8/4/2004	CT	89					
Goat Creek A	8/4/2004	RB	116					
Goat Creek A	8/4/2004	RB	81					
Goat Creek A	8/4/2004	RB	74					
Goat Creek A	8/4/2004	RB	62					
Goat Creek A	8/4/2004	RB	87					
Goat Creek A	8/4/2004	RB	69					
Goat Creek A	8/4/2004	RB	71					
Goat Creek A	8/4/2004	BT	183					
Goat Creek A	8/4/2004	TF	#7					

Appendix Table 2. Deadwood River Fish Capture by site sampled

Species	BSN-A	BSN-B	BVR-A	DED-A	DED-B	DED-C	DRE	GOAT-A	NFDR-A	NFDR-B	NOMN-A	NOMN-B	SCOT-A	SCOT-B	SCOT-C	SCOT-D	SCOT-E	SFDR-A	SFDR-B	SFDR-C	SFDR-D	SFSC-B	TRL-A	TRL-B	WSPR-A	WSPR-B	WSPR-D	WTHK-A	WTHK-B	WLBK-A	WLBK-B	DED-WEIR	
Bull trout	0	0	0	29	1	0	0	1	18	2	0	0	5	8	11	10	3	4	0	2	0	3	1	11	15	15	0	0	0	0	8	0	0
Cutthroat trout	0	2	21	0	40	59	0	46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0	30	36	0
Rainbow trout	0	4	4	0	0	0	19	7	4	11	26	17	0	0	2	6	17	2	5	35	34	6	0	0	0	0	22	29	29	1	0	0	5
Longnose dace	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	53	0	0	0	0	0	8
Mountain whitefish	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Kokanee	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	0	6
Sculpin spp.	0	36	8	0	41	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27	51	0
Unidentified Fry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Fish	0	42	39	29	82	90	19	54	22	13	26	17	5	8	13	16	20	6	5	37	34	9	15	11	15	15	75	29	29	78	87	33	
Amphibians (tailed frogs or tadpoles)	0	0	1	0	0	1	2	23	0	7	6	19	0	0	0	8	5	0	0	0	12	0	0	0	4	0	0	0	3	1	21	0	

Appendix Table 3. PIT tagged bull trout in Deadwood River basin 2004

<b>PIT ID</b>	<b>Length</b>	<b>Site</b>	<b>Date</b>	<b>Weight(g)</b>
033087102	166/176	DEAD-A	8/2/2004	
033069123	109/115	DEAD-A	8/2/2004	
033053608	188/126	DEAD-A	8/2/2004	
033053881	161/170	DEAD-A	8/2/2004	
033070000	171/180	DEAD-A	8/2/2004	
033059374	193/203	DEAD-A	8/2/2004	
033071558	152/162	DEAD-A	8/2/2004	
033060069	145/153	DEAD-A	8/2/2004	
033059344	158/167	DEAD-A	8/2/2004	
033068279	156/162	DEAD-A	8/2/2004	
033058097	106/113	DEAD-A	8/2/2004	
033058605	154/163	DEAD-A	8/2/2004	
033067523	109/111	DEAD-A	8/2/2004	
033056028	168/175	DEAD-A	8/2/2004	
033056320	136/147	DEAD-A	8/2/2004	
033053376	154/163	DEAD-A	8/2/2004	
033055617	190/200	DEAD-A	8/2/2004	
033060360	134/142	DEAD-A	8/2/2004	
033060591	196/211	DEAD-A	8/2/2004	
033062374	116/124	DEAD-A	8/2/2004	
033064112	105/114	DEAD-A	8/2/2004	
033064800	195/206	DEAD-A	8/2/2004	
033064863	166/177	DEAD-A	8/2/2004	
033067784	162/171	DEAD-A	8/2/2004	
033067851	145/154	DEAD-A	8/2/2004	
033067871	188/194	DEAD-A	8/2/2004	
033070549	141/149	DEAD-A	8/2/2004	
033083097	108/116	DEAD-A	8/2/2004	
033053112	133/123	NFDR-A	7/14/2004	20
033055517	142/134	NFDR-A	7/14/2004	22
033056628	138/129	NFDR-A	7/14/2004	20
033059004	125/118	NFDR-A	7/14/2004	38
033060599	132/123	NFDR-A	7/14/2004	20
033061380	143/136	NFDR-A	7/14/2004	26
033061545	169/161	NFDR-A	7/14/2004	46
033062105	144/137	NFDR-A	7/14/2004	24
033063579	128/121	NFDR-A	7/14/2004	18
033065266	132/123	NFDR-A	7/14/2004	24
033066121	178/168	NFDR-A	7/14/2004	56
033066546	187/175	NFDR-A	7/14/2004	50
033066817	137/128	NFDR-A	7/14/2004	22
033068849	135/121	NFDR-A	7/14/2004	24

Appendix Table 3. Continued.

<b>PIT ID</b>	<b>Length</b>	<b>Site</b>	<b>Date</b>	<b>Weight(g)</b>
033071311	143/137	NFDR-A	7/14/2004	26
033073055	180/169	NFDR-A	7/14/2004	56
033083780	142/136	NFDR-A	7/14/2004	20
033065276	182/170	NFDR-B	7/15/2004	48
033067011	134/132	NFDR-B	7/15/2004	28
033058038	209/200	SCT-A	7/21/2004	
033058525	179-170	SCT-A	7/21/2004	
033082044	155/147	SCT-A	7/21/2004	
033088027	179/168	SCT-A	7/21/2004	
033089100	200/190	SCT-A	7/21/2004	
033062272	124/118	SCT-B	7/21/2004	
033054328	154/147	SCT-B	7/21/2004	
033057616	151/143	SCT-B	7/21/2004	
033058816	128/122	SCT-B	7/21/2004	
033059537	206/196	SCT-B	7/21/2004	
033070067	178/171	SCT-B	7/21/2004	
033071839	204/195	SCT-B	7/21/2004	
033083868	156/148	SCT-B	7/21/2004	
033054115	214/225	SCT-C	7/29/2004	114
033058042	157/168	SCT-C	7/29/2004	66
033063311	118/124	SCT-C	7/29/2004	0
033065866	187/195	SCT-C	7/29/2004	76
033066841	161/171	SCT-C	7/29/2004	0
033070044	172/186	SCT-C	7/29/2004	76
033071324	117/122	SCT-C	7/29/2004	8
033083864	173/183	SCT-C	7/29/2004	58
033068096	154/145	SCT-D	7/26/2004	
033071108	147/138	SCT-D	7/26/2004	32
033073026	203/194	SCT-D	7/26/2004	104
033073327	137/132	SCT-D	7/26/2004	30
033062033	107/101	SCT-E	7/20/2004	
033066360	109/104	SCT-E	7/20/2004	
033064016	121/115	SFDR-A	7/12/2004	18
033065342	164/155	SFDR-A	7/13/2004	24
034379014	103/98	SFDR-A	7/13/2004	10
033058811	180/170	SFDR-C	7/14/2004	58
033061597	134/126	SFDR-C	7/14/2004	26
033054777	163/155	SFSC	7/20/2004	
033058808	170/162	SFSC	7/20/2004	
033062032	129/110	TRAIL-A	8/3/2004	
033059552	144/137	TRAIL-B	8/3/2004	

Appendix Table 3. Continued.

<b>PIT ID</b>	<b>Length</b>	<b>Site</b>	<b>Date</b>	<b>Weight(g)</b>
033063080	197/187	TRAIL-B	8/3/2004	
033069012	118/112	TRAIL-B	8/3/2004	
033070347	110/103	TRAIL-B	8/3/2004	
033093556	168/158	TRAIL-B	8/3/2004	
033068791	102/106	TRAIL-B	8/3/2004	
033059001	169/181	TRAIL-B	8/3/2004	
033066021	119/127	TRAIL-B	8/3/2004	
033056061	118/124	TRAIL-B	8/3/2004	
033052633	101/105	TRAIL-B	8/3/2004	
033056564	127/133	TRAIL-B	8/3/2004	
033069575	157/149	WMSP-A	8/2/2004	
033054533	130/138	WMSP-A	8/2/2004	
033054595	126/120	WMSP-A	8/2/2004	
033057108	108/114	WMSP-A	8/2/2004	
033064540	117/110	WMSP-A	8/2/2004	
033065261	128/135	WMSP-A	8/2/2004	
033066517	126/120	WMSP-A	8/2/2004	
033067036	119/126	WMSP-A	8/2/2004	
033070048	136/141	WMSP-A	8/2/2004	
033072370	133/142	WMSP-A	8/2/2004	
033086856	120/127	WMSP-A	8/2/2004	
033055041	112/117	WMSP-B	7/27/2004	10
033068259	126/130	WMSP-B	7/27/2004	22
033053855	123/126	WMSP-B	7/27/2004	22
033055637	107/112	WMSP-B	7/27/2004	12
033056617	111/116	WMSP-B	7/27/2004	8
033060777	132/137	WMSP-B	7/27/2004	36
033069553	107/112	WMSP-B	7/27/2004	12
033071343	155/166	WMSP-B	7/27/2004	38
033084034	103/106	WMSP-B	7/27/2004	14
033087108	151/157	WMSP-B	7/27/2004	34
033093886	132/141	WMSP-B	7/27/2004	22
033064368	146/155			38
033071587	133/128			

Appendix Table 4. Fish sampled in the Deadwood River basin with fish weir in 2004.

Date	Trap box (Downstream/Upstream)	Time	Species	Length (FL, mm)	Length (TL, mm)	Comments
<b>Week 1</b>						
9/9/2004	US/DS	1600	No Fish			
9/10/2004	US/DS		No Fish			
9/11/2004	DS	830	LND	88	93	
9/11/2004	DS	830	LND	134	141	
9/11/2004	DS	830	RB	114	122	
9/11/2004	DS	830	MWF	120	131	
9/11/2004	DS	830	LND	113	117	
9/11/2004	DS	830	LND	106	112	
9/11/2004	DS	830	LND	96	100	
9/11/2004	DS	830	LND	117	122	
9/11/2004	DS	830	RB	153	165	
9/12/2004	DS	900	K	300	314	Mort
9/13/2004	DS	830	K	343	368	
9/14/2004	US	800	K	343	375	
9/14/2004	DS	800	MWF	367	386	
9/14/2004	DS	800	LND	84	91	
9/14/2004	DS	800	LND	95	105	
9/15/2004	US/DS	800	No Fish			
<b>Week 2</b>						
9/16/2004	DS		K	300	312	
9/17/2004	DS	1600	LND	99	104	
9/17/2004	DS	1600	RB	144	151	
9/18/2004	US/DS	830	No Fish			
9/19/2004	US/DS	800	No Fish			
9/20/2004	US	930	MWF	309	328	
9/20/2004	DS	930	MWF	401	424	
9/20/2004	DS	930	K	112	123	
9/21/2004	DS	930	MWF	193	210	
9/21/2004	DS	930	MWF	126	137	
9/21/2004	DS	930	MWF	84	99	
9/22/2004	DS	830	RB	100	106	
<b>Week 3</b>						
9/23/2004	DS	900	MWF	90	100	
9/23/2004	DS	900	K			Mort
9/24/2004	DS		RB	127	132	
9/25/2004	US/DS		No Fish			
9/26/2004	US/DS		No Fish			
9/27/2004	US/DS		No Fish			
9/28/2004	US/DS		No Fish			
9/29/2004	US	830	MWF	314	332	

Appendix Table 4. Continued.

Date	Trap box (Downstream/Upstream)	Time	Species	Length (FL, mm)	Length (TL, mm)	Comments
Week 4						
9/30/2004	US		MWF	355	368	
9/30/2004	US		MWF	385	419	
10/1/2004	US/DS		No Fish			
10/2/2004	US/DS	800	No Fish			
10/3/2004	US/DS	800	No Fish			
10/4/2004	US/DS		No Fish			
10/5/2004	US/DS	900	No Fish			
10/6/2004	US/DS	900	No Fish			
Week 5						
10/7/2004	US/DS		No Fish			
10/8/2004	US	800	MWF	304	319	
10/8/2004	US	800	MWF	309	324	
10/9/2004	US/DS	830	No Fish			
10/10/2004	US/DS	1030	No Fish			
10/11/2004	US	830	MWF	308	324	
10/12/2004	US/DS	830	No Fish			
10/13/2004	US/DS	1040	No Fish			
		<b>TOTAL</b>	<b>MWF=14</b>	<b>LND=8</b>	<b>KO=6</b>	<b>RB=5</b>