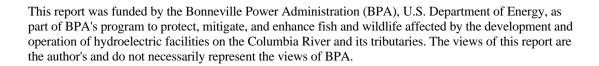
BULL TROUT POPULATION ASSESSMENT IN THE WHITE SALMON AND KLICKITAT RIVERS, COLUMBIA RIVER GORGE, WASHINGTON

Fiscal Year 2001 Annual Report



DOE/BP-00004474-1





This document should be cited as follows:

Thiesfeld, Steven L., Ronald H. McPeak, Brian S. McNamara - Washington Department of Fish and Wildlife, Fiscal Year 2001 Annual Report, Bull Trout Population Assessment in the White Salmon and Klickitat Rivers, Columbia River Gorge, Washington, Report to Bonneville Power Administration, Contract No. 00004474, Project No. 199902400, 77 electronic pages (BPA Report DOE/BP-00004474-1)

This report and other BPA Fish and Wildlife Publications are available on the Internet at:

http://www.efw.bpa.gov/cgi-bin/efw/FW/publications.cgi

For other information on electronic documents or other printed media, contact or write to:

Bonneville Power Administration Environment, Fish and Wildlife Division P.O. Box 3621 905 N.E. 11th Avenue Portland, OR 97208-3621

Please include title, author, and DOE/BP number in the request.

Fiscal Year 2001 ANNUAL REPORT

Bull Trout Population Assessment in the White Salmon and Klickitat rivers, Columbia River Gorge, Washington

By

Steven L. Thiesfeld Ronald H. McPeak Brian S. McNamara

Washington Department of Fish and Wildlife 2108 Grand Blvd. Vancouver, Washington 98661

and

Isadore Honanie

Confederated Tribes and Bands Yakama Nation Post Office Box 151 Toppenish, Washington 98948

BPA Contract #00004474-00001 Project # 1999-024-00

TABLE OF CONTENTS

TABLE OF CONTENTS	ii
ABSTRACT	1
INTRODUCTION	1
STUDY AREA	
WHITE SALMON RIVER BASIN	4
KLICKITAT RIVER BASIN	
METHODS AND MATERIALS	11
RESULTS	
WHITE SALMON RIVER BASIN	
Mill Creek.	
Buck Creek	
Spring Creek	
Tributaries of Cave Creek	
Lost Creek	
Little Goose Creek	
Smokey Creek	
Cultus Creek	
Meadow Creek	
Mosquito Creek	
Crofton Creek	
Unnamed Tributaries to White Salmon River	
Elmer Canyon Creek	
KLICKITAT RIVER BASIN	
Westside Streams	
Westside Creeks – Klickitat to Leidl Bridge	
Outlet Creek	
Big Muddy Creek	
West Fork Klickitat Drainage	
West Fork Klickitat River	
Little Muddy Creek	
Clearwater Creek	
Trappers Creek	
Cold Creek	
Two Lakes Stream	
Unnamed Tributaries to Fish Lake Stream	
Fish Lake Stream and Fish Lake	
Howard Lake Stream	30
Genetic Analysis	30
Upstream of West Fork	
Klickitat River Mainstem (below Castile Falls)	
Chaparral Creek	
Pearl Creek	
Elkhorn Creek	31

Huckleberry Creek	31
Upper Klickitat River (Mainstem)	
Diamond Fork Drainage	
Piscoe Creek	34
Yedlick Creek	34
Swamp Creek	34
Cedar Creek	35
Eastside Streams Near Lower Boundary of Yakama Indian Reservation	35
Little Klickitat River Drainage	
Bowman Creek	35
Mill Creek	36
Devils Canyon	36
West Prong Little Klickitat River	36
Butler Creek	
East Prong Little Klickitat River	37
DISCUSSION	
Limiting Factors	40
ACKNOWLEDGMENTS	
LITERATURE CITED	42
APPENDICES	45

ABSTRACT

We utilized night snorkeling and single pass electroshocking to determine the presence or absence of bull trout *Salvelinus confluentus* in 26 stream reaches (3,415 m) in the White Salmon basin and in 71 stream reaches (9,005 m) in the Klickitat River basin during summer and fall 2001. We did not find any bull trout in the White Salmon River basin. In the Klickitat River basin, bull trout were found only in the West Fork Klickitat River drainage. We found bull trout in two streams not previously reported: Two Lakes Stream and an unnamed tributary to Fish Lake Stream (WRIA code number 30-0550). We attempted to capture downstream migrant bull trout in the West Fork Klickitat River by fishing a 1.5-m rotary screw trap at RM 4.3 from July 23 through October 17. Although we caught other salmonids, no bull trout were captured. The greatest limiting factor for bull trout in the West Fork Klickitat River is likely the small amount of available habitat resulting in a low total abundance, and the isolation of the population. Many of the streams are fragmented by natural falls, which are partial or complete barriers to upstream fish movement. To date, we have not been able to confirm that the occasional bull trout observed in the mainstem Klickitat River are migrating upstream into the West Fork Klickitat River.

INTRODUCTION

Populations of bull trout *Salvelinus confluentus* previously ranged over much of the western states and western Canada. Bull trout were widely distributed in Washington, Oregon, Montana, Idaho, Nevada, and California, and in British Columbia, the Yukon Territory, and Alberta in Canada (Buchanan, et al. 1997). Bull trout numbers have been impacted by habitat degradation, passage barriers, harvest pressure, and interactions with introduced species. Many bull trout populations are declining or have disappeared. Past and current efforts to assess, protect, and restore existing bull trout populations have been limited by a lack of basic information on ecology, life history and genetics of bull trout (Rieman and McIntyre 1993; Kostow 1995; Rieman and McIntyre 1995; Buchanan et al. 1997; Spruell and Allendorf 1997: Dunham and Rieman 1999).

Limited information exists on bull trout in the Columbia River Gorge, Washington (Wind, Little White Salmon, White Salmon, and Klickitat river basins). Byrne et al. (2001) initiated studies to determine the presence/absence of bull trout in the Washington tributaries of the Columbia River Gorge during summer and fall 2000. Streams were surveyed in the Wind, Little White Salmon, White Salmon, and Klickitat river basins primarily using night and day snorkeling, and to a lesser extent, backpack electroshocking. Byrne et al. (2001) essentially eliminated the Wind and Little White Salmon basins as having bull trout.

Bull trout were historically present in the White Salmon River. Two bull trout recoveries were reported by Washington Department of Fish and Wildlife (WDFW) biologists in the White Salmon River basin above Condit Dam in Northwestern Lake (WDFW 1998; Figure 1). A 273 mm bull trout was captured in a gill net set in the spring of 1986, while a second fish, about 305 mm, was checked in the opening day creel census in April 1989. In addition, sport anglers downstream from Condit Dam have reported two sightings in recent years. Byrne et al. (2001)

snorkeled 22,550 m of stream in the White Salmon River basin during 2000: 6,050 m at night and 16,500 m during the day. They also electroshocked a section of Ninefoot Creek and the upper White Salmon River. No bull trout were observed in the basin during sampling conducted in 2000.

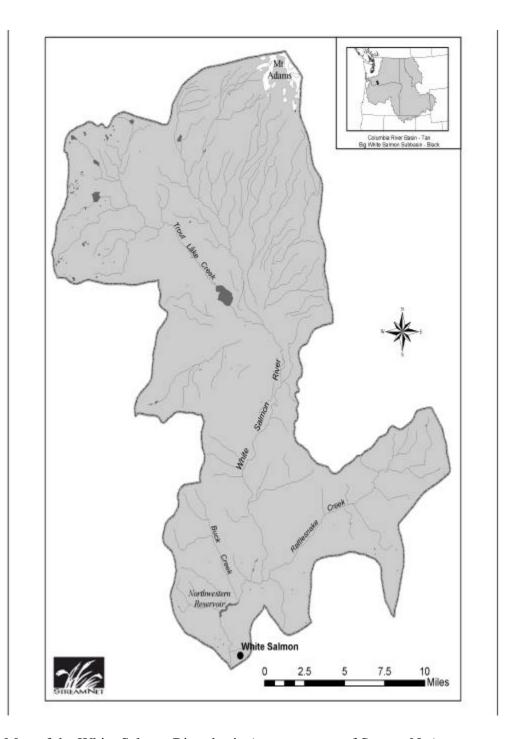


Figure 1. Map of the White Salmon River basin (map courtesy of Stream Net).

Bull trout were also historically present in the Klickitat River basin. Four bull trout up to 254 mm in length were reported during snorkel surveys in the mainstem Klickitat River between the West Fork Klickitat River [River Mile (RM) 63.1] and Castile Falls (RM 64) in 1990 (Figure 2), and 23 bull trout (76 to 178 mm in length) were observed during electroshocking surveys in Trappers Creek in 1995 (Bill Sharp, Yakama Nation, Toppenish, Washington, personal communication; Figure 3). In the early 1990's, a 360 mm bull trout was caught by angling near the town of Klickitat. Bull trout have also been captured in the Columbia River at the mouth of the Klickitat River. In 1998, tribal northern pikeminnow *Ptychocheilus oregonensis* gillnetters reported capturing two bull trout at the mouth of the Klickitat. In May 2000, an anecdotal bull trout recovery and release at this area was reported to a Northern Pikeminnow Sport-Reward Registration Station.

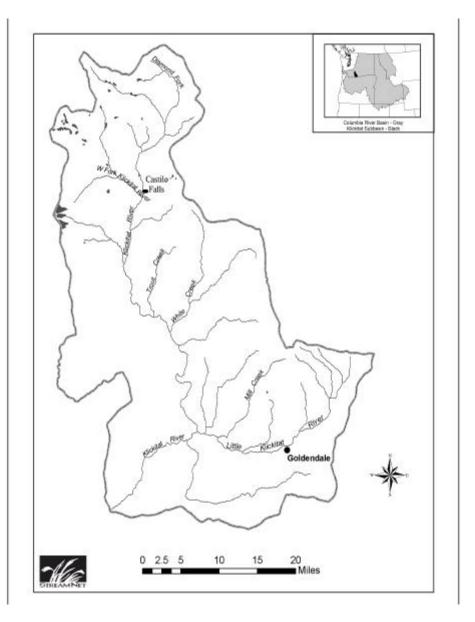


Figure 2. Map of the Klickitat River basin (map courtesy of Stream Net).

Byrne et al. (2001) snorkeled a total of 4,108 m in the Klickitat River basin: 3,793 m at night and 315 m during the day, in the following tributaries in the Klickitat River basin during 2000: Bird Creek, Dry Creek, Clearwater Creek, Trappers Creek, Little Muddy Creek, Fish Lake Stream, Cunningham Creek, McCreedy Creek, and Diamond Fork. They also checked the West Fork Klickitat by snorkeling at night immediately above the falls near the confluence with Fish Lake Stream, and electroshocked Trappers, Clearwater, McCreedy and Piscoe creeks. Bull trout were observed in Trappers, Clearwater, and Little Muddy creeks, and a single specimen in the West Fork Klickitat River just below the confluence of Little Muddy Creek and Fish Lake Stream.

The work conducted in 2001 focused surveys on the areas in the White Salmon and Klickitat river basins that had not been previously examined. The primary goal of our efforts in 2001 was to complete a preliminary assessment of which streams supported bull trout in most parts of the Klickitat River basin within the Yakama Indian Reservation.

STUDY AREA

WHITE SALMON RIVER BASIN

The White Salmon River originates on the south side of Mount Adams and flows south 49 miles before entering Bonneville Reservoir in Underwood, Washington at River Mile (RM) 167 (Figure 1). The White Salmon River drains 386 square miles of Skamania, Klickitat, and Yakima counties. The river is fed by the White Salmon and Avalanche glaciers, which lie above 7,000 feet on Mount Adams. Topography ranges from the steep flanks of Mount Adams to gentle slopes near Trout Lake. Elevation of the drainage ranges from the peak of Mount Adams at 12,276 feet to its mouth at the Columbia River at about 100 feet above sea level.

The upper White Salmon River watershed extends from the headwaters on Mount Adams to the White Salmon River confluence with Trout Lake Creek near the town of Trout Lake (Figure 3). The mainstem of the White Salmon River in this upper reach is approximately 23 miles long. Ninefoot, Green Canyon, and Trout Lake creeks are principle tributaries to the upper White Salmon River that enter the mainstem from the west. Several smaller creeks drain from the west to Trout Lake Creek: Meadow, Mosquito, Cultus, Little Goose and Smokey (this creek actually is a tributary of Little Goose Creek).

Most of the principle tributaries to the upper White Salmon River drain the south slopes of Mount Adams and enter from the northeast, including Cascade, Salt, Wicky, Morrison, Buck, Gotchen, and Hole-in-the-Ground creeks. Glacial melt sustains relatively high summer and spring flows, notably in Cascade Creek and the mainstem. Glacial melt causes turbidity, especially in Cascade Creek and the White Salmon River below the confluence with Cascade Creek. Upstream of Cascade Creek are at least eight unnamed tributaries that appear to be spring fed and are large enough to support fish.

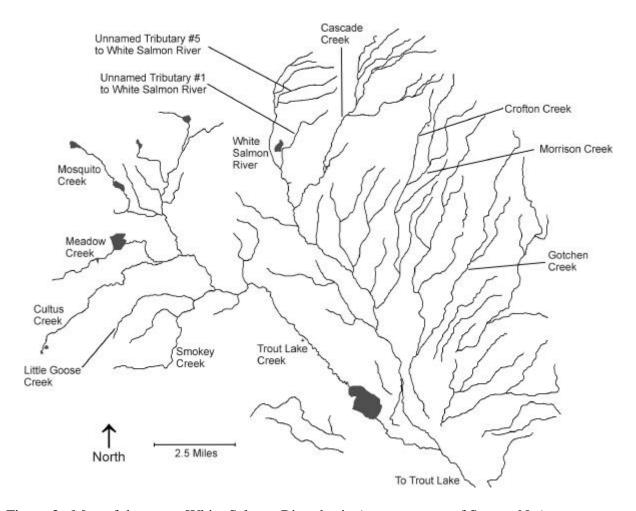


Figure 3. Map of the upper White Salmon River basin (map courtesy of Stream Net).

The lower White Salmon River drainage extends 26 miles from the confluence with Trout Lake Creek to where the river enters Bonneville Reservoir. Principle tributaries in this lower reach are Spring Creek (RM 6.6) from the west and Rattlesnake Creek (RM 7.5) from the east (Figure 4). Condit Dam, located at RM 3.3, creates Northwestern Lake. Buck Creek and Mill Creek enter the lake from the west and Cave Creek meanders from the hills southwest of the town of Trout Lake and enters the mainstem in the valley near Trout Lake. Lost Creek is west southwest of Trout Lake and goes subsurface before reaching the White Salmon River.

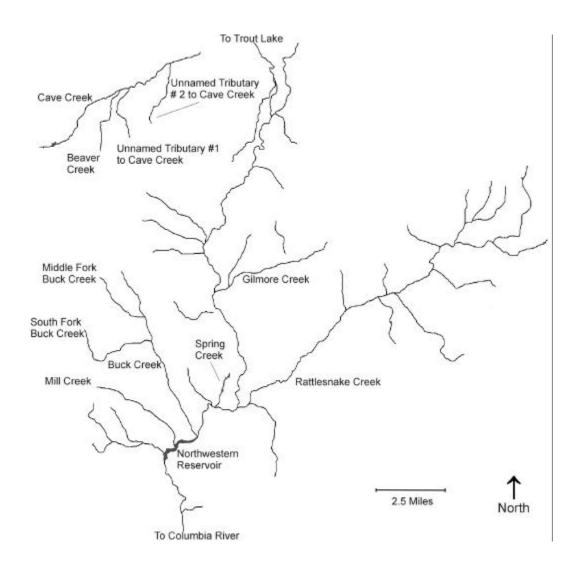


Figure 4. Map of the lower White Salmon River basin (map courtesy of Stream Net).

KLICKITAT RIVER BASIN

The Klickitat River basin is located on the east slope of the Cascade Range and drains 1,350 square miles in Klickitat and Yakima counties (Figure 2). The Klickitat River is one of the longest undammed rivers in the northwest, flowing nearly 96 miles south from its source near Goat Rocks to where it enters the Columbia River. The topography in the watershed ranges from the rugged flanks of Mount Adams and deep canyons to flat lands and gentle slopes south of the mountain. Elevations range from 12,276 feet at the summit of Mount Adams to about 100 feet where the Klickitat River enters the Columbia River. Extensive basalt strata dominate the geology of the watershed. The erosion-resistant nature of some of these strata has resulted in the creation of deep (700 to 1,500 feet), steep-walled canyons and has severely restricted alluvial floodplain development over most of the watershed. Many of the cascades and waterfalls are due

to local variations in erosion resistance of these flows (Northwest Power Planning Council 2000). Castile Falls, and falls on the West Fork Klickitat River, Two Lakes Stream, and Huckleberry Creek are likely examples of falls created by erosion resistant flows.

Principle tributaries that enter the Klickitat River from the west are Outlet Creek (RM 39.7), Big Muddy Creek (RM 53.8), the West Fork Klickitat River (RM 63.1) and McCreedy Creek (RM 70.7; Figures 5 and 6). The West Fork Klickitat River drainage is extensive and important with regards to bull trout (Figure 3). Little Muddy Creek joins Fish Lake Stream to form the West Fork Klickitat River at RM 4.5. Trappers, Crawford, and Clearwater creeks are tributaries of Little Muddy Creek. The outlet stream from Howard Lake enters Fish Lake and is the source of Fish Lake Stream. Two Lakes Stream, Cold Creek, and several unnamed creeks are tributaries of Fish Lake Stream. The West Fork Klickitat River drainage contributes significantly to the mainstem, providing three times as much water per square mile as does the rest of the Klickitat River drainage above the West Fork Klickitat River (Cline, 1976). Base flows of late summer and fall are sustained by the West Fork Klickitat River through ground-water discharge and water released from storage in glaciers (Cline, 1976).

Castile Falls on the Klickitat River (RM 64.0 to 64.5) is a series of 11 falls having a total elevation drop of approximately 80 feet. Historically, these falls were thought to be a barrier to most species except spring chinook salmon and summer steelhead (see discussion in Northwest Power Planning Council 2000). "Passage improvements" by the Washington Department of Fisheries during the 1960's may have degraded fish passage, such that salmon and steelhead generally are not able to pass the falls. Chaparral Creek (RM 68.1) and Pearl Creek (RM 69.5) enter the mainstem from the west. The Klickitat River veers to the west at about RM 77.0. Many small tributaries, Huckleberry Creek, and Elkhorn Creek contribute to the upper Klickitat River (Figure 7).

Principle tributaries that enter the Klickitat River from the east are the Little Klickitat River (RM 19.8) and Diamond Fork (RM 76.8). The Little Klickitat River originates north of Goldendale in the Simcoe Mountains where many small tributaries contribute to the river: Bowman, Mill, Devils Canyon, West Prong, Butler, and East Prong creeks (Figure 8). Diamond Fork drains a large basin northeast of the mainstem and many small unnamed tributaries contribute to Diamond Fork.

Mount Adams has a distinct influence on both water quantity and water quality in the Klickitat River. The Klickitat, Wilson and Rusk glaciers on the east flank of Mount Adams contribute water and volcanic debris. Volcanic rock, weathering to clay, and glacial action combine to deliver a large volume of fine sediment to the river system through Big Muddy Creek and Little Muddy Creek. The suspended sediment in these streams during the summer causes turbidity in the Klickitat River from the West Fork to the Columbia River 63 miles downstream.

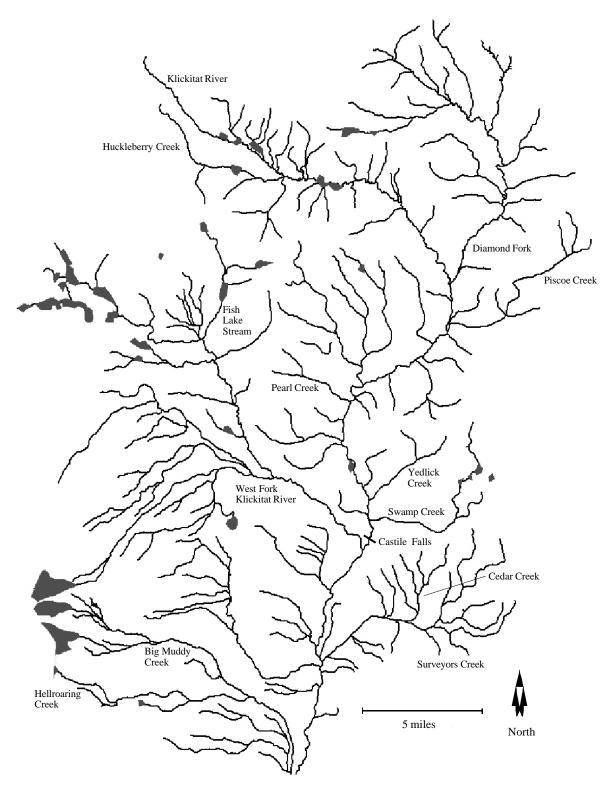


Figure 5. Map of the upper Klickitat River basin upstream of Big Muddy Creek (map courtesy of Stream Net).

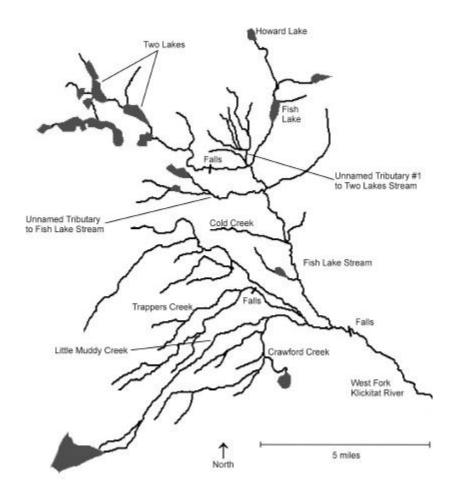


Figure 6. Map of the West Fork Klickitat River basin (map courtesy of Stream Net).

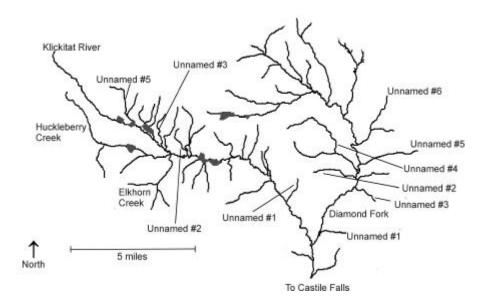


Figure 7. Map of the upper Klickitat River (on the left) and Diamond Fork drainages (on the right; map courtesy of Stream Net).

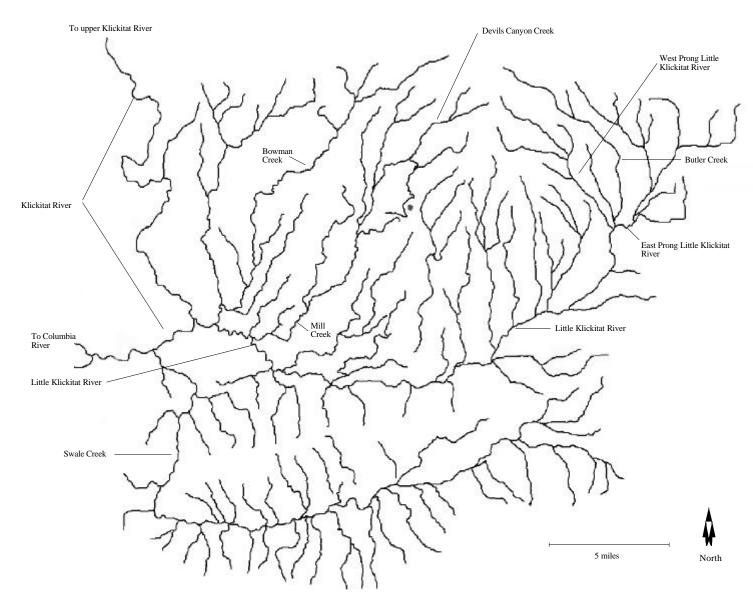


Figure 8. Map of the Little Klickitat River drainage (map courtesy of Stream Net).

METHODS AND MATERIALS

Our general approach was to examine each stream in the two watersheds for flow and temperature. Many streams were initially examined near road access or by hiking to determine whether enough water was available to support fish, whether water temperature was appropriate, and whether the creeks needed to be sampled by night snorkeling or electroshocking. These reconnaissance surveys helped to focus our sampling and maximize our effort. Some streams on the Yakama Indian Reservation were not sampled if the Yakama Nation already had sampling programs established for those streams.

Peterson et al. (2002) developed a protocol for determining bull trout presence. The protocol develops probabilities of detection estimates for juvenile migratory and resident bull trout using three sampling methods: day snorkeling, night snorkeling, and backpack electrofishing (3 passes). The protocol recommends a given number of samples required to detect bull trout (<200 mm TL) with 80% and 95% probabilities of detection in 50-m and 100-m long sampling units. The protocol also calls for use of block nets at the upper and lower unit boundaries to prevent movement of fish from one unit to the next.

Problems with the draft interim protocol survey methodology were recognized by Byrne et al. (2001). We had similar issues with the protocol and found it difficult to utilize some aspects. The protocol is based upon a beta-binomial probability distribution of detecting fish presence and requires that survey locations be chosen randomly. Due to access, efficiency, and safety issues (deep canyons, extensive log jams, etc.) this was not always possible. Therefore, our sample locations were not chosen randomly. Many of the areas we were investigating had never been sampled for fish. We chose not to use barrier nets in order to cover as much area as possible in a limited amount of time. Use of barrier nets would have added significantly to sampling time and difficulty, and resulted in fewer streams being sampled.

Many small tributaries were sampled during this study using a battery powered Smith-Root (Model 12-B) backpack electroshocker. We followed standard backpack electroshocking protocol for small streams (Reynolds 1996). Our main concern was to capture fish and our settings were set to maximize the capture efficiency until we found fish. We tried to thoroughly work sections using a single pass and considered the size of the stream (flow and width) to determine how best to shock. As with our snorkel surveys, we chose to not use barrier nets. We also chose to use a single pass through each section, rather than three pass electrofishing with barrier nets, in order to sample more streams. Fish collected by electroshocking were retained in a bucket and fork length measured to the nearest millimeter. Fish were returned to the stream after they recovered. Dace *Rhinichthys spp.*, sculpin *Cottus spp.*, salamanders, tailed frogs *Ascaphus truei*, and other unidentified tadpoles were counted, but usually were not measured. Salamanders were not keyed out to species, except that all salamanders larger than 200 mm were *Dicamptodon* spp. Total distance of each creek shocked was visually estimated.

Snorkel surveys were done at night after habitat data was collected during the day. We followed the methodology for snorkel surveys and habitat data collection as described by Byrne et

al. (2001). A Suunto PM-5/360 PC Clinometer was used for determining the gradient. USIA dry suits and small compact PC Lite underwater flashlights were used for the snorkel surveys. These lights were more functional than larger, bulky flashlights, which were difficult to handle in fast water.

All salmonids were counted during snorkel surveys. Rainbow trout/steelhead *Oncorhynchus mykiss*, chinook salmon *O. tshawytscha*, coho salmon *O. kisutch*, brook trout *Salvelinus fontinalis*, mountain whitefish *Prosopium williamsoni*, and bull trout were seen during the surveys. The size of each fish was estimated as greater than or less than 150 mm total length (TL). Because it is difficult to distinguish juvenile rainbow trout from steelhead, we grouped them together as *O. mykiss*, or rainbow trout in the text. Dace, sculpin, tailed frogs, and other unidentified tadpoles were counted.

A 1.5-m rotary screw trap was fished in the West Fork Klickitat River at RM 4.3 from July 23 through October 17. The trap was usually set on Mondays and pulled on Wednesday or Thursday. Occasionally, when other sampling conflicted with checking the trap, it was not fished, or was fished less time. Fish captured in the screw trap were measured for fork length to the nearest millimeter and released downstream of the trap.

Fish Lake was sampled on October 15 using three experimental, monofilament, gillnets placed at various locations around the lake. Each net was 18.2-m long and 1.8-m deep, with 4.6-m panels of 38, 51, 64 and 76 mm stretched mesh net. Each net was fished twice during the day for a period of 1.5-2 hours per set. Fish were measured for fork length to the nearest millimeter and most were released in good condition following capture. Six mortalities were retained by tribal personnel for disposition.

Tissue samples for mitochondrial DNA analysis of genetic population structure were obtained from bull trout that were collected during the study. Fin clips (~ 4 x 4 mm) were taken from the caudal fin and immediately placed in ethanol. Late in the study, we realized that we should have been collecting tissue samples from other species also, even though the project was not funded for analyzing them. Tissue samples were taken for DNA analysis from *O. mykiss* collected in several tributaries of the Little Klickitat River. These samples are archived at the WDFW lab in Olympia, but no analysis is currently planned.

RESULTS

We sampled 3,415 m in 26 stream reaches in the White Salmon basin (Table 1) and 9,005 m in 71 stream reaches and Fish Lake in the Klickitat River basin (Table 2) during summer and fall 2001. Specific electroshock, snorkel, and habitat data are presented in Appendices 1-3.

Table 1. Locations examined for bull trout in the White Salmon River drainage during 2001.

Site	Date	Temperature °C	Sampling Technique ^a	Distance Sampled (m) ^b	Species Found ^c
Westside Streams (Downstream of Trout Lake)			•	•	•
Mill Creek	9/20	12.0	Е	150	Rb
Middle Fork Buck Creek	6/26	8.3	S	100	None
Buck Creek (lower)	6/26	12.2	S	100	Rb
Buck Creek (dam)	6/26	10.3	S	200	Rb
Spring Creek	8/13	11.7	S	300	Rb, Bk
Beaver Creek	8/29	13.3	Е	50	Bk
Unnamed tributary of Beaver Creek #1	8/29	5.8	E	100	Bk
Unnamed tributary of Beaver Creek #2 (lower)	9/21	8.0	E	50	Bk
Unnamed tributary of Beaver Creek #2 (upper)	8/29	7.2	E	100	none
Eastside Streams (Downstream of Trout Lake)					
Crofton Creek	9/20	5.0	Е	200	None
Elmer Canyon	10/30	7.1	E	50	None
Southside Streams (Upstream of Trout Lake)					
Lost Creek ^d	7/2	5.0	S	200	Rb, Bk
Smokey Creek	7/9	12.0	S	100	Bk
Cultus Creek (upper)	7/11	10.0	S	100	None
Cultus Creek (lower)	7/9	13.3	S	200	Rb, Bk
Little Goose Creek	7/2	6.9	S	100	Bk

Table 1. Continued.

Site	Date	Temperature °C	Sampling Technique ^a	Distance Sampled (m) ^b	Species Found ^c
Meadow Creek (upper)	6/27	7.2	S	100	Rb
Meadow Creek (lower)	6/27	10.5	S	200	Rb
Mosquito Creek (upper)	7/10	7.8	S	100	None
Mosquito Creek (lower)	7/10	6.7	S	100	Bk
Northside Streams (Upstream of Trout Lake) Unnamed tributary of White Salmon River #1	10/23	2.8	E	200	Rb
•					
Unnamed tributary of White Salmon River #2	10/24	3.3	E	150	Rb
Unnamed tributary of White Salmon River #3	10/23	2.8	E	100	Rb
Unnamed tributary of White Salmon River #4	10/24	3.3	E	75	Rb
Unnamed tributary of White Salmon River #5	10/23	2.8	Е	140	Rb
Unnamed tributary of White Salmon River #6	10/24	2.2	E	50	Rb

a. S = night snorkel, E = electroshock. Block nets were not used for either method.

b. Distances were rough visual estimates for electroshocking. Transects snorkeled were measured.

c. Rb = rainbow trout, Bk = brook trout, Bu = bull trout, Ch = chinook salmon, Co = coho salmon, Sc = sculpin species, Da = dace species.

d. Lost Creek becomes subterranean before reaching any major river. However, an irrigation ditch brings water from Lost Creek to Coyote Creek, a tributary to the White Salmon River.

Table 2. Locations examined for bull trout in the Klickitat River drainage during 2001.

Site	Date	Temperature °C	Sampling Technique ^a	Distance Sampled (m) ^b	Species Found ^c
Westside Tributaries Below West Fork					
Outlet Creek	10/9	8.3	S	200	Om, Bk, Co, Sc
Big Muddy Creek	10/10	4.5	E	150	None
West Fork Klickitat R at RM 0.2	7/17	9.2	S	100	Om, Bk, Ch, Wf, Sc
West Fork Klickitat R at RM 2.2	7/24	10.0	S	100	Om, Bk, Bu
West Fork Klickitat R at RM 4.3	7/16	7.2	S	100	Om, Bk, Bu,
Little Muddy Creek					
Above Trappers Creek	7/30	8.5	E	100	Bu
Near Crawford Creek	7/25		E	100	None
Clearwater Creek					
Between Falls #1 and #2	7/30	7.0	S and E	100 and 50	None
West Fork Drainage					
Trappers Creek					
Below Falls	7/23	9.5	S	100	Bu
Above Falls	7/23	9.5	S	100	None
Above Adams Lake Road	7/16	5.6	S	100	None
Below Adams Lake Road	7/16	5.6	S	100	None
Cold Creek	10/17	4.2	Е	100	Om, Bk
Two Lakes Stream					
Below Falls	9/26	5.2	S	200	Om, Bk, Bu
Above Falls	9/25	9.0	E	100	Om, Bk

Table 2. Continued.

Site	Date	Temperature °C	Sampling Technique ^a	Distance Sampled (m) ^b	Species Found ^c
			-	-	
Tributaries to Two Lakes Stream					
Unnamed tributary #1 (lower)	10/3	4.5	S and E	200 and 150	Om, Bk
Unnamed tributary #1 (upper)	10/3	4.5	E	100	Bk
Unnamed tributary to unnamed #1	10/8	4.0	S	100	Om, Bk
Unnamed tributary # 2 (above falls)	9/25	4.5	E	100	Bk
Fish Lake Stream (below lake)	10/2	10.0	E	300	Om, Bk
Unnamed tributary to Fish Lake Stream	9/26	8.5	E	100	Om, Bu
Unnamed tributary to Unnamed	9/26	5.6	E	100	None
Fish Lake	10/15	8.2	G		Om, Bk
Howard Lake Stream (eastern fork)	10/1	7.0	E	100	None
Howard Lake Stream (western fork)	10/1	6.7	Е	150	Om, Bk
Upper Klickitat Drainage					
Klickitat River (below Castile Falls)	7/17	13.0	S	200	Om, Bk, Ch, Sc
Chaparral Creek	8/28	11.7	E	125	Om
Pearl Creek	8/28	9.5	E	200	None
Elkhorn Creek	8/1	11.2	E	300	Om, Bk
Huckleberry Creek (lower)	8/20	7.8	E	150	None
Huckleberry Creek (upper)	8/7	12.2	Е	300	None
Klickitat River at RM 86.7	7/31	12.9	S	300	Om, Bk, Ch
Klickitat River at RM 91.5	8/21	9.5	E	25	Om
Klickitat River at RM 91.6	8/27	9.5	E	350	Om

Table 2. Continued.

Site	Date	Temperature °C	Sampling Technique ^a	Distance Sampled (m) ^b	Species Found ^c
			*	1	1
Unnamed tributary to Klickitat River #1, RM 79.9	8/1		Е	50	Bk
Unnamed tributary to Klickitat River #2, RM 86.55	7/31	9.8	Е	100	Om, Bk
Unnamed tributary to Klickitat River #3, RM 87.95	8/20	7.2	Е	100	None
Unnamed tributary to unnamed #4, RM 88.4	8/20	11.1	Е	100	Om
Unnamed tributary to Klickitat River #5, RM 89.7	8/21	8.3	E	100	Om
Unnamed tributary to Klickitat River #6, RM 91.8	8/27	6.1	Е	80	Om, Bk
Piscoe Creek	8/15	15.0	E	100	Om
Yedlick Creek	8/15	15.0	E	100	Om
Swamp Creek	9/26	10.0	E	50	Om
Cedar Creek	10/2	9.8	Е	100	Om
Summit Creek	10/10	4.5	Е	100	Om, Bk
Diamond Fork Drainage					
Unnamed tributary to Diamond Fork #1	9/18	6.8	Е	100	None
Unnamed tributary to Diamond Fork #2	9/11	10.0	E	180	Om
Unnamed tributary to Diamond Fork #3, upper	9/12	9.5	E	100	None
Unnamed tributary to Diamond Fork #3, lower	9/12	9.0	E	140	None
Unnamed tributary to Diamond Fork #4, lower	9/18	7.2	Е	100	Om, Bk
Unnamed tributary to Diamond Fork #4, upper	9/19	6.8	Е	100	Bk
Unnamed tributary to Unnamed #4, lower	9/18	6.5	E	200	Bk
Unnamed tributary to Unnamed #4, upper	9/19	5.0	E	150	Bk
Unnamed tributary to Diamond Fork #5	9/10	10.5	E	260	Om
Unnamed tributary to Diamond Fork #6	9/10	8.5	Е	250	Om

Table 2. Continued.

Site	Date	Temperature °C	Sampling Technique ^a	Distance Sampled (m) ^b	Species Found ^c
Unnamed tributary to Diamond Fork #7	9/18	5.2	E	150	Om, Bk
Unnamed tributary to Diamond Fork #8	9/18	6.7	E	200	None
Unnamed tributary to Diamond Fork #9	9/18	6.4	E	40	None
Little Klickitat River Tributaries					
Bowman Creek (lower)	10/31	6.7	E	100	Om, Sc, Da
Bowman Creek (upper)	10/31	7.5	E	100	Om
Mill Creek (lower)	10/31	7.2	E	100	Om
Mill Creek (upper)	11/12	4.3	E	100	Om
Devils Canyon Creek (eastern fork)	11/12	2.5	E	100	Om
Devils Canyon Creek	11/12	2.5	Е	80	Om
West Prong Little Klickitat River (lower)	11/7	0.0	E	100	Om, Sc
West Prong Little Klickitat River (upper)	11/7	0.0	E	75	None
Unnamed Tributary	11/7	0.0	Е	25	Om
Butler Creek (lower)	10/29	7.2	E	100	Om
Butler Creek (middle)	11/5	2.0	Е	50	Om
Butler Creek (upper)	11/6	0.5	E	75	Om
Butler Creek (upper)	11/6	0.0	E	75	None
East Prong Little Klickitat River	10/29	7.2	E	75	Om

a. S = night snorkel, E = electroshock (block nets were not used for either method), G = Gill Net.

b. Distances were rough visual estimates for electroshocking. Transects snorkeled were measured.

c. Om = O. mykiss (rainbow trout and/or juvenile steelhead), Bk = brook trout, Bu = bull trout, Ch = chinook salmon, Co = coho salmon

WHITE SALMON RIVER BASIN

We surveyed 26 stream reaches during 2001 that were not sampled in 2000 (Table 1). Many of the streams that we sampled in 2001 were smaller than the larger streams sampled in 2000, especially those west of Trout Lake. No bull trout were found in the White Salmon River basin.

Mill Creek

Mill Creek originates in a deep canyon west of Northwestern Lake and drains to the lake. The creek, which was electroshocked at RM 1.7 on September 20, was 5-6 m wide, low gradient, had moderate flow, and 12.0°C. Four age classes of *O. mykiss* were captured and they were abundant.

Buck Creek

Buck Creek drains a large canyon complex west of Northwestern Lake and enters the lake just above the "lake bridge." The middle fork was fairly cool and appeared to be a spring fed system suitable for bull trout. Middle Fork Buck Creek was 2-3 m wide, high gradient (12.5%), had moderate flow, some large wood debris (LWD), and was 8.3°C (Table 3). We snorkeled the Middle Fork at RM 0.1 on June 26, but did not observe any fish. We observed tailed frog tadpoles, 1 unidentified tadpole, and 18 *Dicamptodon* spp. salamanders.

Three hundred meters of Buck Creek were snorkeled on June 26 at a lower site (RM 1.4) and an upper site above the dam (RM 3.9). The creek in these areas was 5-11 m wide, had good flow, a gradient <4%, some LWD, and was 10.3-12.2°C. Buck Creek had the third highest density of *O. mykiss* of any of the streams snorkeled in 2001 (Table 3). A few sculpin were seen at the lower site. *Dicamptodon* spp. salamanders were observed at both locations, while tailed frog tadpoles and unidentified tadpoles were observed only at the upper site. South Fork Buck Creek winds through an essentially roadless basin and was not sampled, but probably should be.

Spring Creek

Spring Creek enters the mainstem White Salmon River above Northwestern Lake at RM 6.6. Three 100-m transects of Spring Creek were snorkeled between the lake and Spring Creek Road on August 13. The creek was 2.4-6 m wide, had moderate flow and LWD, and was 11.7°C. Spring creek had the highest density of rainbow trout of all the streams snorkeled in 2001 (Tables 3 and 4). Some brook trout and sculpin were seen during the night snorkel. The extoparasitic protozoa *Epistylis spp.*, was noted on a few of the rainbow trout.

Table 3. Densities of rainbow trout (Rb), brook trout (Bk) and bull trout (Bu) in streams surveyed by night snorkeling in the White Salmon River basin during 2001, and their mean habitat characteristics.

Site	Rb	Bk	Bu	Temperature	Mean		Mean	Mean	Mean	Mean
	per	per	per	(°C)	Gradient	Mean	Width	Depth	Substrate	Cover
	100m ²	100m ²	100m^2		(%)	LWD	(m)	(cm)	(cm)	(%)
White Salmon River Basin										
Middle Fork Buck Creek	0.00	0.00	0.00	8.3	12.5	14.0	5.0	17	62	99
Buck Creek (lower)	11.17	0.00	0.00	12.2	3.0	10.0	6.0	23	25	95
Buck Creek (dam)	10.85	0.00	0.00	10.3	4.1	11.0	7.8	12	19	79
Spring Creek	16.49	1.33	0.00	11.7	1.2	13.7	3.9	31	7	45
Lost Creek ^a	0.20	0.20	0.00	5.0	1.3	15.5	7.5	28	17	10
Smokey Creek	0.00	4.49	0.00	12.0	4.5	21.0	2.5	13	9	60
Cultus Creek (upper)	8.82	0.19	0.00	10.0	1.9	7.5	2.9	15	11	54
Cultus Creek (lower)	0.00	0.00	0.00	13.3	5.0	6.0	6.0	17	24	15
Little Goose Creek	0.00	0.93	0.00	6.9	2.0	22.0	7.5	13	14	17
Meadow Creek (upper)	3.43	0.00	0.00	7.2	2.5	^b	10.5	9	12	40
Meadow Creek (lower)	5.36	0.00	0.00	10.5	0.5	11.0	9.6	71	0	5
Mosquito Creek (upper)	0.00	0.00	0.00	7.8	7.3	28.0	2.2	12	13	70
Mosquito Creek (lower)	0.00	1.28	0.00	6.7	1.0	28.0	2.4	11	10	78

a. Lost Creek becomes subterranean before reaching any major river. However, an irrigation ditch brings water from Lost Creek to Coyote Creek, a tributary to the White Salmon River.

b. Inadvertently not counted.

Table 4. Densities of *O. mykiss* (rainbow trout and/or juvenile steelhead) (Om), brook trout (Bk) and bull trout (Bu) in streams surveyed by night snorkeling in the Klickitat River basin during 2001, and their mean habitat characteristics.

Site	Om per 100m ²	Bk per 100m ²	Bu per 100m ²	Temperature (°C)	Mean Gradient (%)	Mean LWD	Mean Width (m)	Mean Depth (cm)	Mean Substrate (cm)	Mean Cover (%)
Klickitat River Basin										
Outlet Creek	14.63	0.33	0.00	8.3	5.0	2.0	11.6	45	23	23
West Fork Klickitat R.										
Below Falls # 1 (RM 0.2)	2.42	0.18	0.00	9.2	2.3	30.0	16.5	43	d	10
Above 255 Bridge (RM 2.2)	2.02	1.18	0.11	10.0	1.3	32.0	17.9	46	24	13
Above 255 Bridge (RM 4.3)	1.85	1.70	0.74	7.2	2.5	0.0	13.6	48	17	3
Trappers Creek										
Downstream of Falls ^a	0.00	0.00	10.77	9.5	3.4	25.0	3.0	12	12	75
Upstream of Falls	0.00	0.00	0.00	9.5						
Near Adams Lake Road	0.00	0.00	0.00	5.6	3.0	63.0	3.6	16	6	58
Clearwater Creek (RM 0.2)	0.00	0.00	0.00	7.0	4.0	84.0	9.9	31	20	25
Two Lakes Stream, Below Falls	4.06	2.86	0.07	5.2	4.2	26.5	13.8	23	5	35
Tributaries to Two Lakes Stream										
Unnamed #1 (lower)	0.17	0.33	0.00	4.5	2.1	94.5	10.4	22	4	36
Unnamed tributary to unnamed #1	0.28	2.54	0.00	4.0	c	83.0	3.6	14	2	89
Klickitat R. below Castile Falls (RM 63.9)	b	0.39	0.00	13.0	0.6	3.0	20.2	41	13	0
Klickitat River (RM 86.7)	3.67	0.43	0.00	12.9	0.8	14.7	8.9	35	16	2

a. Habitat values are the averages of the transects upstream and downstream of the falls.

b. Too many O. mykiss (100's) were observed to get an accurate count.

c. It was too dark to measure gradient at this transect.

d. Only bedrock and boulders were observed.

Tributaries of Cave Creek

Beaver Creek and two unnamed tributaries of Cave Creek were electroshocked during August and September. Cave Creek drains the low mountains to the southwest of the town of Trout Lake and enters the White Salmon River below Trout Lake. Water temperatures varied considerably in the various tributaries. Approximately 50 m of Beaver Creek were electroshocked just upstream of U.S. Forest Service (USFS) road 8631 on August 29. Water temperature was 13.3°C, even though it had been 9.5°C only 2 weeks earlier. An abundant population of brook trout was found.

The two unnamed tributaries of Cave Creek were very cold, but had low flow (<2.0 cfs). Unnamed creek # 1 joined Cave Creek at ~ RM 3.5 (as measured from where Cave Creek is routed into an irrigation ditch near Highway 141). It was obviously spring fed at 5.8°C on August 29, but only brook trout were found. Unnamed # 2 joined Cave Creek at ~RM 1.8. It was also spring fed with water temperatures of 7.2°C at the upper site (~RM 1.9) on August 29 and 8.0°C at the lower site (~RM 0.6) on September 21. Brook trout were the only fish observed, and only at the lower site.

Lost Creek

Lost Creek is an isolated, spring fed, stream that flows subsurface into lava flows, never reaching any river. However, an irrigation ditch withdraws water from Lost Creek and takes it over to Coyote Creek. Coyote Creek essentially ends west of the town of Trout Lake without reaching the White Salmon River. Although the probability is low of fish reaching the White Salmon River, we investigated the stream because there was a possible connection during flooding. Lost Creek was 5.7-10.0 m wide, low gradient (< 2%) and had moderate amounts of LWD (some were part of restoration efforts). The water temperature had decreased from 8.3°C during the day to 5.0°C at night. We snorkeled 200 meters of the creek at RM 5.0 and found rainbow and brook trout in very low densities (Table 3).

Little Goose Creek

Little Goose Creek is a tributary of Trout Lake Creek. We night snorkeled a 100-m section just upstream of USFS road 8831 on July 2. Little Goose Creek was 5-10 m wide, low gradient (2%), had good quantities of LWD (22), and was 6.9°C. Brook trout were present at a very low density (Table 3). We observed two unidentified tadpoles and one tailed frog tadpole.

Smokey Creek

Smokey Creek is a tributary of Little Goose Creek. A 100-m section, ~200 m downstream of USFS road 8831, was night snorkeled July 9. The creek was 1.7-3.2 m wide, had 4.5% gradient with abundant LWD, and was 12.0 °C. Only brook trout were seen in Smokey Creek, at a relatively high density (Table 3). We also observed thirteen smaller, unidentified salamanders.

Cultus Creek

Cultus Creek is a tributary of Trout Lake Creek. We night snorkeled 200-m sections on upper and lower Cultus Creek July 9-11. The upper site was located just upstream of USFS road 24 where the creek was 1.8-3.6 m wide, low gradient (< 2%), and 10.0°C. No fish were seen at the upper site, but fourteen tailed frog tadpoles were counted. The lower site was just upstream of USFS road 88 where the creek was 4.1-11.4 m wide, had a gradient of 5.0%, and was 13.3°C. Rainbow trout densities were high, and a few brook trout were seen during the survey (Table 3). Tailed frog tadpoles were quite abundant, and a few *Dicamptodon* spp. salamanders were seen.

Meadow Creek

Meadow Creek is also a tributary of Trout Lake Creek. We night snorkeled a 100-m section on upper Meadow Creek, just upstream of USFS trail 26, on June 27, and a 200-m section on lower Meadow Creek, just upstream of USFS road 88, on June 26. Upper Meadow Creek was highly braided and shallow as it ran through a dense willow stand. It was 3-18 m wide, had a gradient of 2.5%, and was 7.2°C. Rainbow trout were present at a moderate density at the upper site (Table 3). The lower site was just upstream of USFS road 88 where the creek was 9-10 m wide and with some LWD. Lower Meadow Creek was typical of streams in meadow environments with a very low gradient (0.5%), wide meandering bends, slightly incised cut banks, and a predominance of deep glide habitat. The lower site was 10.5°C, 3.0°C warmer than the upper site. Rainbow trout were also moderately abundant at the lower site. No other salmonids were seen, but *Dicamptodon* spp. salamanders were abundant.

Mosquito Creek

Mosquito Creek flows into and then out of Mosquito Lake before flowing into Trout Lake Creek. We night snorkeled two 100-m sections of the creek upstream of the lake on July 10. This is a fairly small stream with only low quality pools. The upper section (just upstream of USFS road 8854) was 1.9-2.5 m wide with moderately high gradient (> 7%), and was 7.8°C. No trout were seen in the upper section. Lower Mosquito Creek (just upstream of USFS road 8851) was 2.4 m wide, low gradient (1%), and was 6.7°C. Only three brook trout were seen in the lower section (Table 3).

Crofton Creek

Crofton Creek is a tributary of Morisson Creek and comes off the southwest side of Mount Adams. We electroshocked a 200-m section above USFS trail 73 September 20. Crofton Creek was 1-4 m wide, moderate gradient (3-6%), with heaps of LWD and muddy silt to small boulders, and 5.0°C. No fish were found in Crofton Creek.

Unnamed Tributaries to White Salmon River

Six small, unnamed tributaries to the White Salmon River upstream of Cascade Creek were electroshocked October 23-24. The first five (east to west) tributaries crossed USFS road 101. The sixth tributary was just west of the end of the road. These were high gradient streams with low LWD and few pools. They appeared to be spring fed systems. Water temperatures during snow conditions were expectedly cold and ranged from 2.8 to 3.3°C. All of these creeks had low densities of rainbow trout, as only a few fish were captured in each creek.

Elmer Canyon Creek

Elmer Canyon Creek is a small tributary of the White Salmon River that joins the river in the valley southeast of Trout Lake. We electroshocked a 50-m section of the creek just upstream of the Glenwood/Trout Lake road October 30. The creek was < 0.5 m wide and very low gradient near the road, and 7.1°C. No fish were found in Elmer Canyon Creek.

KLICKITAT RIVER BASIN

We surveyed 71 stream sections during 2001 in the Klickitat River basin that were not sampled in 2000 (Table 2). Slightly more than 9,000 m of the mainstem Klickitat River and tributaries, and Fish Lake were sampled during summer and fall 2001. We electroshocked many of the smaller tributaries, rather than snorkeling them, in order to sample more streams; and also surveyed extensive areas in the West Fork Klickitat drainage, Diamond Fork drainage, the upper Klickitat River above Diamond Fork, and the Little Klickitat River drainage near Goldendale. Most of our work in the Klickitat River basin was done on the Yakama Indian Reservation The following areas in the basin were not on the reservation: Outlet Creek, Little Klickitat River drainage, and several drainages on the west side of the Klickitat River below the Leidl Bridge.

We found bull trout only in Trappers, Clearwater, and Little Muddy creeks; and in the West Fork Klickitat River. We also discovered bull trout in Two Lakes Stream and an unnamed tributary to Fish Lake Stream, both tributaries of the West Fork Klickitat River. In addition, bull trout were observed while night snorkeling in the West Fork Klickitat River just upstream of Yakama Nation road 255 bridge and at a site upstream of the bridge at RM 4.3.

Westside Streams

Westside Creeks – Klickitat to Leidl Bridge

We examined several streams in Snyder, Skookum, Wahkiacus, Dead, and Willis canyons between the town of Klickitat and the Leidl Bridge in late October. The canyons were either dry or with too little water to support fish ($< 0.25 \, \mathrm{cfs}$), and therefore were not sampled. These tributaries were too warm or dry during the bull trout spawning season and thus would not support spawning or rearing.

Outlet Creek

Outlet Creek is a larger (30-50 cfs), spring fed system that enters the Klickitat River at RM 39.7. We night snorkeled a 200-m section of the creek October 9 beginning just above the confluence with the Klickitat River. Outlet Creek was 7.2-14.2 m wide and fast flowing with many rapids. It had a gradient of 5% with almost no LWD, and was 8.3°C. Most of the pools were formed by boulders and bedrock rather than LWD. The riparian zone was well vegetated with grasses, sedges and forbs typical of spring dominated streams. The fast nature and high flow made surveying the center of the stream difficult in places. Thus we likely missed some fish and underestimated densities. The creek was very productive and had the highest density of *O. mykiss* of any of the streams we snorkeled in the Klickitat River basin (Table 4). We also found brook trout, sculpin, and juvenile coho salmon at low densities, along with a few adult coho salmon and adult hatchery steelhead.

Big Muddy Creek

Big Muddy Creek enters the Klickitat River at RM 53.8. The creek is usually turbid with glacial melt and has high flow. We electroshocked a 150-m section of the creek near Yakama Nation road 255 bridge on October 10 when the creek ran low (estimated at < 5 cfs) and reasonably clear. The bank-full width clearly indicated that high velocity flows scour the creek at times. The creek provided poor habitat for fish because there was no LWD, few pools, and too much fine sediment. Not surprisingly, we found no fish in the creek.

West Fork Klickitat Drainage

West Fork Klickitat River

The West Fork Klickitat River is fast flowing and enters the mainstem at RM 63.1. During our reconnaissance on the west fork we discovered a significant falls (#1) approximately 0.3 miles above the confluence with the Klickitat River. The falls are almost vertical and 5-6 m in height, and are not described in any documents we have seen. It is likely that falls #1 is a barrier to fish moving from the mainstem up the West Fork Klickitat River. A second falls (#2) exists on

the west fork at about RM 4.8 just below the confluence of Little Muddy Creek and Fish Lake Stream. This well documented falls is also 5-6 m in height and probably a barrier to upstream fish passage.

We night snorkeled 100-m sections at three sites on the West Fork Klickitat River July 16-23: below falls #1 (RM 0.3), just upstream of where Yakama Nation road 255 crosses the river (RM 2.2), and an upper site where the screw trap was installed (RM 4.3). The West Fork Klickitat River at these sites was 11-20 m wide, averaged about 2.0% gradient (not including the falls), and was 7.2-10°C. The fast flowing river was difficult to snorkel in some areas, especially in the thalweg.

Numerous *O. mykiss*, a few brook trout and juvenile chinook salmon (< 150 mm), sculpin, and a single mountain whitefish were seen at the lower site below falls #1 (Tables 2 and 4). No bull trout were seen below falls #1. Brook trout and *O. mykiss* were abundant at both sites above road 255. Bull trout were also seen in the West Fork Klickitat River at the two sites above the bridge. We saw two bull trout at the road 255 bridge and ten at RM 4.3. All bull trout except one were >150 mm. Four unidentified tadpoles were counted at the road 255 site. We did not sample or conduct a reconnaissance survey between falls #1 and the 255 bridge. If no additional falls are in this area, we would expect bull trout to occur in 4.6 miles of the West Fork Klickitat River from just above falls #1 to its beginning at the confluence of Fish Lake Stream and Little Muddy Creek. On October 17, we day snorkeled the 40 m comprising the large plunge pool directly downstream of falls #1 to determine if adult bull trout were "stalled" below the falls. We observed a couple of *O. mykiss* and one adult steelhead, but no bull trout.

We fished a 1.5-m screw trap in the West Fork Klickitat River at RM 4.3 at various times from July 24 through October 17 (Table 5). The trap fished at least eighteen 24-hour periods during these dates yielding 41 brook trout and 31 *O. mykiss*. No bull trout were taken with the screw trap even though bull trout had been seen in the area during night snorkeling.

Little Muddy Creek

Crawford, Trappers, and Clearwater creeks are tributaries of Little Muddy Creek. Little Muddy Creek is clouded with glacial flour during much of the year. We electroshocked two sites on the creek July 25-30: an upper site (RM 2.0) near Crawford Creek and a lower site (RM 1.1) approximately 300 m above Trappers Creek. The Crawford Creek site was very high gradient with few pools or resting habitat. No fish were caught or seen at the upper site. The lower site had better habitat for salmonids, was lower gradient, and had some pools or protected areas. We electroshocked a 172 mm bull trout in this section of Little Muddy Creek. There were no obvious barriers where we electroshocked, so bull trout could be further upstream.

Table 5. Days fished and catch from a 1.5 m rotary screw trap fished in the West Fork Klickitat River at RM 4.3 from July 23 through October 17, 2001.

Week of	Number of Days Fished	Number of Brook Trout	Number of <i>O. mykiss</i>
July 22	3	11	0
July 29	2	9	3
August 5	1	5	0
August 12	0	N/a	N/a
August 19	2	4	13
September 2	0	N/a	N/a
September 9	2	2	0
September 23	2	0	3
September 30	2	4	11
October 7	2	4	1
October 10	1	2	1
October 14	2	2	0

Clearwater Creek

Clearwater Creek joins Little Muddy Creek 0.8 miles above Fish Lake Stream. The creek runs clear even when the Little Muddy is clouded with glacial flour. There is a series of four falls on Clearwater Creek between RM 0.2 and RM 0.5. Bull trout were observed from the confluence upstream to the first falls in 2000. The first falls are nearly vertical and 6-8 m high. Clearwater Creek was spring fed, had a high gradient, good flow, and a very high quantity of LWD. We electroshocked and night snorkeled the 100-m section between falls #1 and #2 on July 30 to determine if bull trout existed above an apparent barrier. No fish were found above falls #1. The falls, presumably, is a barrier to fish movement up Clearwater Creek.

Trappers Creek

Trappers Creek joins Little Muddy Creek 250 m above Clearwater Creek and also runs clear when the Little Muddy is clouded with glacial melt. We night snorkeled four 100-m sections of this spring fed stream July 16-23. Two upper sections were high up on Trappers Creek, one upstream of, and one downstream of Adams Lake Road. The two upper sections were 2.6-4.1 m wide and low to moderate gradient (1-5%), very high in LWD, and 5.6°C. No fish were found in these sections.

Two mid-sections were upstream and downstream of a small falls located at RM 2.1. The mid-sections of Trappers Creek were 1.8-3.8 m wide and low to moderate gradient (2.0-4.5%), with much LWD, and 9.5°C. We measured the first 100-m section and found that it ended just below a 1.8 m high vertical waterfall. The second 100-m section was measured above the waterfall. We were surprised to find that this small waterfall was apparently a barrier to bull trout on Trappers Creek. We saw 28 bull trout during our night snorkel in the section below the falls, the highest density recorded in 2001 (Table 4), and no bull trout or other fish above the falls.

Cold Creek

Cold Creek is a small tributary that flows beneath Potato Hill Road and reaches Fish Lake Stream from the west at ~RM 3.3. A 100-m section of the creek was electroshocked October 17. Cold Creek was low gradient, 2-3 m wide, with much LWD, and 4.2°C. Only a few *O. mykiss* and 53 brook trout were captured. The creek appeared suitable for bull trout, however, none were found.

Two Lakes Stream

Two Lakes Stream flows into Fish Lake Stream downstream of Fish Lake. It originates at Two Lakes and has a number of smaller unnamed tributaries that feed into it. In September, the stream is actually several times larger than Fish Lake Stream where the two join. Two Lakes Stream was an estimated 15-20 cfs, whereas Fish Lake Stream was estimated at 3-5 cfs. A waterfall, approximately 8 m high, was discovered on Two Lakes Stream at approximately RM 0.8. We electroshocked a 100-m section above the falls at RM 0.9, just upstream of unnamed tributary #2, on September 25. The creek at this site was 8-15 m wide, perhaps 2-3 cfs, and 9°C. The substrate was bedrock with large boulders and the channel was scoured, obviously getting heavy flow at times. Brook trout (66) and *O. mykiss* (29) were abundant in this section. We found no bull trout above the falls.

We night snorkeled a 200-m section below the falls September 26. The creek at this site was 8.9-16 m wide, fast flowing, moderately high gradient (4-6%), and 5.2°C. Input from unnamed tributary #2 lowered water temperature in the mainstem Two Lakes Stream from 9.0 to 5.2°C. Two bull trout (> 150 mm) were seen during the snorkel survey, but we were unable to capture them to collect tissue samples. Brook trout and *O. mykiss* were moderately abundant in the section below the falls (Table 4).

We electroshocked and night snorkeled several unnamed tributaries of Two Lakes Stream. The tributaries were spring fed, very cold (4.0-4.5°C) and typical habitat for bull trout. Unnamed tributary #1 joins Two Lakes Stream just above the confluence with Fish Lake Stream at ~RM 0.05. This tributary was shocked at two sites October 3. A 150-m section was shocked at the lower site (RM 0.05) and a 100-m section was shocked at the upper site (RM 0.5). The creek was 5-10 m wide, highly braided, low gradient, and plugged with LWD. Although not measured, velocity appeared to be quite swift in this stream. Otherwise, it appeared perfect for bull trout.

We only shocked a few brook trout at each site and one tailed frog tadpole. We then night snorkeled a 200-m section of tributary #1 at RM 0.1 on October 8, including some of the area we had electroshocked. We observed only brook trout and *O. mykiss* in very low densities (Table 4). At RM 0.1, another very small, unnamed tributary enters unnamed tributary #1. We snorkeled a 100-m section on this tributary and again found *O. mykiss* and brook trout in very low densities.

A 100-m section of unnamed tributary #2 (RM 0.9; not on the map) to Two Lakes Stream was electroshocked September 25. The creek joined Two Lakes Stream 0.1 miles upstream of the falls. This stream was providing the majority of the flow in Two Lakes Stream, perhaps 6-8 cfs of the estimated 10 cfs flowing in Two Lakes Stream at the falls. Water temperature was also much cooler at 4.5°C versus 9.0°C in the mainstem. The two unnamed tributaries to Two Lakes Streams (#1 and #2) are clearly two of the most important sources of cold, spring fed water in the Fish Lake Stream drainage. Unnamed tributary #2 forked about 50 m above where we began electroshocking, with most of the water coming out of the west fork. A few brook trout were taken in this stream, but no bull trout.

Unnamed Tributaries to Fish Lake Stream

We electroshocked two small tributaries in the Fish Lake Stream drainage. One unnamed tributary (WRIA code number 30-0550) joins Fish Lake Stream below the confluence with Two Lakes Stream at RM 5.0. This creek was 2-4 m wide, low to moderate gradient, with a bedrock and small boulder substrate, good pools, and 8.5°C. We found six bull trout (111-174 mm) and several *O. mykiss* in the 100-m section shocked September 26 at RM 1.5. We did not determine the upstream limit of bull trout in this stream nor whether any falls were present. Presumably, bull trout inhabit the stream at least down to the confluence with Fish Lake Stream. We collected a tissue sample from each bull trout for DNA analysis. One tailed frog tadpole was also captured.

We electroshocked 100 m of a second, very small, unnamed stream that we believe flowed into the aforementioned unnamed tributary to Fish Lake Stream (30-0550). However, we did not take the time to locate the confluence of this stream to verify this assumption. The creek was approximately 2 m wide, low gradient and low flow, and 5.6°C. No fish were taken in the 100-m section shocked September 26.

Fish Lake Stream and Fish Lake

Fish Lake is situated in a large basin 1.8 miles south of Howard Lake. The creek from Howard Lake flows to Fish Lake and is the actual source of Fish Lake Stream. The outlet of Fish Lake is at RM 7.6. We electroshocked approximately 300 meters of Fish Lake Stream just below the outlet of the lake on October 2. The stream was low gradient, 4-6 m wide, had some good pools with LWD, and was 10°C. We caught 109 *O. mykiss* and 156 brook trout in this area, but no bull trout. Two tailed frogs, three tailed frog tadpoles, and one unidentified tadpole were observed.

We gillnetted Fish Lake October 15. The 0.7-mile-long lake had a rich algal bloom in October and the shallow areas of the lake were chocked with vegetation. The water temperature was 8.2°C. We made 6 net sets during the day in both shallow and deep areas, and captured only brook trout and *O. mykiss*. We captured 19 *O. mykiss* and 11 brook trout. No bull trout were captured. Most fish were released in good condition, however, six mortalities were retained by tribal personnel for disposition.

Howard Lake Stream

The stream leading from Howard Lake and one small unnamed tributary to the north were electroshocked October 1, approximately 300 m downstream from Howard Lake. The unnamed tributary was 0.5-1 m wide, formed small pools, and was 7.0°C. No fish were taken in the 100-m section shocked. The outlet stream was 1-2 m wide with pools to 4 m wide, and was 6.7°C. Eight *O. mykiss* and five brook trout were found in the 150-m section. No bull trout were taken in either stream.

Genetic Analysis

We collected 20 tissue samples from Trappers Creek bull trout and 6 tissue samples from the unnamed tributary to Fish Lake Stream (30-0550) bull trout. Preliminary results of genetic analysis suggest that these fish are part of the wide ranging coastal bull trout group (Paul Spruell, University of Montana, Personal Communication). Klickitat River bull trout appear to be more closely related to Willamette River fish rather than closer Hood River or Deschutes River bull trout.

Upstream of West Fork

The source of the Klickitat River is at RM 95.7 near Goat Rocks. The river drains a large basin as it heads east and then bends south near the confluence of Diamond Fork. Many small tributaries and Huckleberry Creek join the upper Klickitat River. Upstream of the Diamond Fork, most of the upper basin is in a roadless "Primitive Area" and access to the river is very limited. A four-wheel drive road follows the river to just beyond McCormick Meadow at RM 86.7, and with extreme care, a vehicle can get to RM 88.4. Beyond that, all access is limited to horses or walking. This presented numerous logistical problems and reduced our ability to conduct night snorkeling in the upper basin.

Klickitat River Mainstem (below Castile Falls)

The mainstem Klickitat River below Castile Falls was 13-28 m wide and low gradient (< 1%), had little LWD, and was 13.0°C. We night snorkeled two 100-m sections July 17 at RM 63.9. Each section had a deep pool where it was difficult to see to the bottom. Fish were abundant in the shallower areas (Table 4). Juvenile *O. mykiss* and juvenile chinook salmon (< 150 mm) were so numerous (100's +) that we could not count them all. We also observed a few brook trout, some juvenile coho salmon, numerous sculpin, and a few mountain whitefish. No bull trout were seen.

Chaparral Creek

Chaparral Creek joins the mainstem from the west above Castile Falls at RM 68.1. A 125-m section of the creek was electroshocked August 28 at RM 1.8. Chaparral Creek was about 1 m wide with a few deep pools, lots of fine silt, a flow of about 0.25 cfs, and 11.7°C. The stream was intermittent in this area. Twenty five *O. mykiss* were captured in the creek. No bull trout were taken.

Pearl Creek

Pearl Creek joins the Klickitat River mainstem from the west at RM 69.5. Two hundred meters were shocked upstream of the Yakima Nation road 259 August 28. Pearl Creek was 1-3 m wide with good quantities of LWD, low flow, clear, with boulders to medium cobble, and 9.7°C. No fish were taken in Pearl Creek.

Elkhorn Creek

Elkhorn Creek is a small tributary of Huckleberry Creek that flows from the south to join Huckleberry Creek just above the confluence with the mainstem. Approximately 300 meters of the creek were electroshocked August 1 starting at RM 0.1. Elkhorn Creek was 1-3 m wide with lots of LWD forming pools and 11.2°C. Fourteen *O. mykiss* and one brook trout were shocked in Elkhorn Creek. No bull trout were seen. A hike across Elkhorn Creek later in August revealed that the lower section near the confluence with Huckleberry Creek was dry.

Huckleberry Creek

Huckleberry Creek drains several miles of a large, roadless, basin in the upper Klickitat River area south of the mainstem. Two sites were electroshocked. The lower site was at RM 1.1 and the upper site was at RM 3.1. The creek at the upper site was high gradient, 2-3 m wide, low flow, and 12.2°C. Huckleberry Creek at the lower site was low gradient, 4-5 m wide, rich in

LWD, and 7.8°C. We shocked about 450 m of Huckleberry during August 2001 and found no trout.

We suspected that a barrier prevented fish movement upstream and discovered two significant waterfalls on Huckleberry Creek downstream of where we had electroshocked. The highest falls, at RM 0.55, was an astonishing 25-30 m high and nearly vertical. A second falls about 6 meters high existed a few hundred meters above the first falls. We hiked into the canyon and were able to reach the creek at a site 300 m below the first falls. We saw *O. mykiss* in Huckleberry Creek below the first waterfall, indicating that the waterfall was likely the upstream limit of fish.

Upper Klickitat River (Mainstem)

We night snorkeled three 100-m sections of the mainstem Klickitat River above McCormick Meadow July 31 starting at RM 86.7. The river in this area was 6.6-11.2 m wide, low gradient (<1%) with moderate amounts of LWD and good pools, and 12.8-13.0°C. We found many *O. mykiss* and juvenile chinook salmon (< 150 mm), a few brook trout, and eight unidentified tadpoles (Table 4). We saw no bull trout.

We electroshocked approximately 400 m of the mainstem near RM 91.5 August 21 and 27. Electroshocking was difficult at the site due to the width and discharge of the stream, and the amount of LWD. Night snorkeling would be more efficient at this location if access was not so difficult. A small log jam separated the section into two sites. Only two, larger, *O. mykiss* were collected in the 350-m section above the log jam, while eight *O. mykiss* were taken in a 50-m section below the log jam. This small log jam was apparently limiting the number of *O. mykiss* upstream. It was not clear as to why reproduction upstream would not fully seed the habitat, but certainly the density of *O. mykiss* was very low. We found no bull trout while electroshocking.

We examined all of the small tributaries flowing into the mainstem from the north. Only a handful had sufficient water to support fish life. Unnamed tributary #1 joined the mainstem at RM 79.9 (WRIA code number 30-0754) and was electroshocked on August 1. The stream was high gradient, flow was approximately 1.0 cfs, but it was mostly less than 1 foot deep. No fish were observed in 100 m of stream.

Unnamed tributary #2 (WRIA number 30-0777) joins the mainstem at RM 86.55. We electroshocked 100 m on July 31, when the stream was 9.8°C. This is a small stream approximately 1-3 m wide with about 1.0 cfs of water, low gradient, lots of pool habitat and LWD, and good overhead cover. We found a single *O. mykiss*, a few brook trout, one tailed frog tadpole, and one unidentified tadpole.

Unnamed tributary #3 (WRIA number 30-0818) joins the mainstem at RM 87.95. This was a very small stream with only about 0.5 cfs of water. The water was 7°C on August 20. No fish were found in ~50 m of stream.

Unnamed tributary #4 (WRIA number 30-0819) joins the mainstem at RM 88.4. We electroshocked a small unnamed tributary of this unnamed tributary on August 20. The stream shocked is not on the map, but enters stream 30-0819 from the north. The stream meanders through two different meadows, where it is slightly incised, with undercut banks and a few nice pools. Typical of meadow habitats, riparian vegetation was mostly limited to sedges, grasses and low forbs. The stream was flowing about 1.0 cfs and was 11°C, and *O. mykiss* were abundant.

Unnamed tributary #5 (WRIA number 30-0822) joins the mainstem at RM 89.7. We electroshocked this unnamed tributary on August 21 at RM 0.035. The stream was 8.3°C and only about 0.5 cfs. The stream was mostly less than 1 foot deep and pool habitat was limited. We electroshocked ~200 m and captured eleven *O. mykiss*.

Unnamed tributary #6 joins the mainstem at RM 91.8. This stream is not on the map and does not have a WRIA code number. This stream was 6.1°C on August 27. The stream was 2.1 m wide, gradient was 2.5-3.0, and LWD was abundant. This was another stream that looked like a "typical" bull trout stream; flow was ~1.5 cfs and the stream was obviously spring fed. However, no fish were found electroshocking 80 m of stream.

Diamond Fork Drainage

Diamond Fork drains a large basin northeast of the Klickitat River and enters the mainstem at RM 76.8. Many unnamed tributaries enter the Diamond Fork from both the west and east. We did not survey tributaries in Tract C of the Yakama Indian Reservation due to the difficulty of access, as it is accessible only through Yakima. We electroshocked a total of 1,970 m at thirteen locations on nine unnamed tributaries in the Diamond Fork drainage September 10-19 (Table 2). The tributaries ranged from < 1 m to 5 m wide with low to moderate gradient. Temperatures ranged from 5.0°C on the west to 10.5°C in a tributary on the east. Trout were virtually absent in smaller tributaries from the west and east, but *O. mykiss* were abundant in three of the warmer tributaries (8.5-10.5°C) on the east side.

Working upstream, unnamed #1 entered the Diamond Fork at RM 0.5 from the east. No fish were captured. Unnamed #2 (WRIA number 30-0692) entered the Diamond Fork from the east at RM 3.65. We captured 28 *O. mykiss* in 180 m of electroshocking. One hundred forty and 100 m were sampled at RM 0.15 and 0.65, respectively, in unnamed tributary #3 (WRIA number 30-0693) which entered the Diamond Fork at RM 3.75, but no fish were found.

The most promising area in the Diamond Fork drainage was unnamed tributary #4 (WRIA number 30-0695) that entered Diamond Fork from the west at RM 4.1. An unnamed creek (WRIA number 30-0696) branched off to the south at RM 1.2. Water temperatures in this system ranged from 5.0 - 7.2°C and there was plenty of LWD creating pools and protective habitat. Aquatic vegetation was abundant in this spring-fed stream. We electroshocked 100 m at RM 1.15 and another 100 m at RM 1.5. Brook trout were numerous at both sites, but *O. mykiss* were found only at the lower site. We also electroshocked two sites on the southern tributary, 200 m

at RM 0.05 and 150 m at RM 0.2. Brook trout were the only species captured. Thirty two were captured at the lower site, while only nine were captured at the upper site.

Unnamed tributary #5 (WRIA number 30-0697) entered the Diamond Fork from the east at RM 4.4. This was another larger stream with good flow, but warmer at 10.5°C. We electroshocked 260 m of stream at RM 0.05 and captured 56 *O. mykiss*.

Unnamed tributary #6 (WRIA number 30-0698) entered the Diamond Fork from the east at RM 5.6. We electroshocked 245 m of stream at RM 0.2 and captured 25 *O. mykiss*.

Unnamed tributaries #7, 8 and 9 are three very small steams that enter the Diamond Fork at RM 5.8, 5.9 and 6.1. Tributaries #7 and 9 enter from the east side and were fairly cool at 5.2 and 6.4°C, respectively. Tributary #8 enters from the west side and was also fairly cool at 6.7°C. All three streams were electroshocked just upstream from their confluence with the mainstem Diamond Fork. A single *O. mykiss* and one brook trout were captured in tributary #7, while no fish were captured in the other two streams.

Piscoe Creek

Piscoe Creek drains an eastside basin and enters the Klickitat River at RM 75.1. We electroshocked a 100-m section at RM 4.4 August 15. The creek was about 2 m wide, low gradient, had a few small pools, and was a warm 15°C. We captured 48 *O. mykiss*, and they were the only fish species observed.

Yedlick Creek

Yedlick Creek enters the Klickitat River from the east just above Castile Falls. The creek was 1-1.5 m wide, heavily incised with lots of sediment, low gradient and low flow (about 0.5 cfs), and 10.5°C. We electroshocked a 100-m section above Yakama Nation road 251 September 26, and *O. mykiss* were common. No other fish were captured in Yedlick Creek.

Swamp Creek

Swamp Creek enters the Klickitat River from the east at Castile Falls. The creek was 3-4 m wide, high gradient with a flow of 1-2 cfs, and 10.0° C. Swamp Creek was electroshocked upstream starting just beyond the end of Yakama Nation road 251 September 26. Tailed frog tadpoles and *O. mykiss* were abundant. We captured no bull trout or other salmonids.

Cedar Creek

Cedar Creek is a tributary of Surveyors Creek at RM 3.5. The creek was 9.8°C, 1-2 m wide, low gradient with pools to 3.5 m wide, and had lots of LWD. Flow was very low and the stream was intermittent at this location. We electroshocked a 100-m section of Cedar Creek at RM 0.7 October 2 and captured 41 *O. mykiss*. We found no other fish in Cedar Creek.

Eastside Streams Near Lower Boundary of Yakama Indian Reservation

We examined several small creeks and tributaries upstream of Yakama Nation road 207 October 16. Dry, Blue, Brush, and several unnamed creeks were dry. We also hiked up White Creek approximately 1.5 miles to the confluence with Brush Creek looking for potential spring inflow. White Creek above the confluence was 2-3 m wide, moderate gradient, with boulders and pools, perhaps 1.5 or 2.0 cfs of discharge, and 9.5°C. Brush Creek was 2-2.5 m wide, had only about 0.5 cfs, and was 8.3°C. No significant cold water springs were located. Because Yakama Nation personnel routinely sample White Creek, we did not shock or sample these creeks.

We electroshocked a 100-m section of a Summit Creek at RM 12.75 on October 10. The creek was 1.5 m wide with pools to 3 m, low gradient with a flow of about 1 cfs, choked with much brush, and 5°C. We captured many brook trout and a few *O. mykiss*.

Little Klickitat River Drainage

The Little Klickitat River joins the Klickitat River at RM 19.8. It originates in the Simcoe Mountains north of Goldendale as many small tributaries. Bowman, Mill, Devils Canyon, West Prong, Butler, and East Prong creeks are tributaries of the Little Klickitat River that we electroshocked. Typical of other eastside tributaries, the Little Klickitat River and its tributaries are primarily snow-melt driven systems, with high water in the spring and very low, warm water during late summer and early fall.

Bowman Creek

Bowman Creek enters the Little Klickitat River at RM 1.2, west of Goldendale. We electroshocked two 100-m sections of Bowman Creek October 31. The creek at Lower Bowman Camp (RM 13.) was 3-5 m wide, low gradient with some LWD and pools, and 6.7°C. The creek at Upper Bowman Camp (RM 14.9) was also low gradient, 1.5-3 m wide with lots of LWD and some pools, and 7.5°C. Both section had numerous *O. mykiss*. No bull trout or other salmonids were captured in Bowman Creek.

Mill Creek

Mill Creek enters the Little Klickitat River at RM 3.6 near Blockhouse. The creek forks at RM 12.7, above where Devils Canyon Creek joins Mill Creek. We electroshocked 100-m sections at RM 12.8 on October 31, and at RM 14.3 on November 12. The lower section was 3-5 m wide, low gradient with lots of LWD and some pools, and 7.2°C. The upper section was sampled on a cold day when the water temperature was 4.3 °C. It was 2-3 m wide and moderate gradient with a few pools. Numerous *O. mykiss* were collected at both locations, and were the only fish collected. We collected tissue samples from 20 *O. mykiss* on November 14 for DNA analysis. All *O. mykiss* samples are archived at the WDFW Genetic Lab in Olympia. Analyses will be conducted if funds become available.

Devils Canyon

Devils Canyon Creek is a tributary of Mill Creek at RM 10.3 and drains the deep Devils Canyon to the east of Monument Road. We electroshocked a total of 180 m at two sites (RM 4.5 and 5.4) on Devils Canyon Creek November 12. The creek at both sites was high gradient, 1.5 to 2 m wide with about 2 cfs flow, and 2.5°C (winter conditions resulted in very cold water temperature). Although high gradient, the habitat looked good for supporting fish. We collected 48 *O. mykiss* and one tailed frog tadpole. We collected tissue samples from 20 *O. mykiss* on November 14 for DNA analysis.

West Prong Little Klickitat River

West Prong Little Klickitat River drains a large canyon that begins below Indian Rock and runs southeast to become the Little Klickitat River when it joins East Prong Little Klickitat River on the east side of Highway 97. We electroshocked a total of 200 meters in three reaches on West Prong Little Klickitat November 7: lower West Prong Little Klickitat (RM 3.75), an east tributary of lower West Prong (WRIA code number 30-0138), and upper West Prong Little Klickitat (RM 6.0). The lower section was moderate gradient, 2-3 m wide with some LWD and pools, and 0°C (winter conditions resulted in the low water temperature). Sculpin and *O. mykiss* were abundant in the lower section. The stream at the upper site was about 1.5 m wide, moderate gradient with some LWD and small pools, and 0°C. No fish were shocked in the upper section. The USGS map indicates a falls at RM 4.35, which may explain the lack of fish at the upper site. The small tributary from the east was 1.5 m wide with a lot of LWD, good pool habitat, and perhaps 1.0 cfs discharge. We were only able to sample a short section of this creek just upstream of the confluence before our equipment broke. Moderate densities of *O. mykiss* were found in the unnamed tributary. We also collected tissue samples from 20 *O. mykiss* from the West Prong Little Klickitat on November 14 for DNA analysis.

Butler Creek

Butler Creek drains a large canyon that begins to the east of Indian Rock and runs southeast to join the East Prong Little Klickitat River at RM 0.1. We shocked a total of 300 m in four reaches on Butler Creek: RM 0.9, 3.6, 7.65, and 8.5. The lower reach was just west of Highway 97. The creek at this site was about 1.5-2 m wide with a few pools to 4 m, low gradient, and 7.2°C. Sculpin, dace, and *O. mykiss* were taken at the lower site.

We shocked the three upper sites on November 5-6 during freezing conditions. The water temperature at this time ranged from 0 to 2°C. The creek was 1-2 m wide with some small pools. We found no fish at RM 8.5, however, *O. mykiss* were abundant at RM 3.6 and 7.65.

East Prong Little Klickitat River

East Prong Little Klickitat River drains a basin east of Highway 97 and joins West Prong Little Klickitat River to become the Little Klickitat River. We electroshocked a 75-m section of the creek near Brooks Memorial Park at RM 3.9 on October 29. The creek was 1.5-2 m wide, low gradient, with some LWD and pools, and 7.2°C. *O. mykiss*, sculpin, and dace were captured in East Prong Little Klickitat River.

We also examined all of the eastern tributaries to the East Prong Klickitat River. These streams were either dry or with too little water to support fish (< 0.25 cfs), and therefore were not sampled. These tributaries were too warm or dry during the bull trout spawning season and thus would not support spawning or rearing.

DISCUSSION

Considerable effort was expended to determine if bull trout were present in streams throughout the White Salmon and Klickitat river basins. Despite our efforts and those of Byrne et al (2001), we have not been able to find bull trout in the White Salmon River basin. Since historical records suggest bull trout were present, it appears that bull trout in the White Salmon River have been extirpated, are confined to the mainstem where sampling is very difficult, or exist in a very small, isolated population that will be extremely difficult to locate. Efforts to locate these fish should continue on a smaller scale in the future, perhaps targeting the mainstem and Northwestern Lake.

We sampled a tremendous number of streams in the Klickitat River basin. In general, we traded certainty for quantity, utilizing single pass electroshocking where feasible. Much of the Klickitat River basin on the Yakama Indian Reservation had not been sampled previously. Therefore, we felt it was prudent to learn about as many streams as possible. Still, bull trout were found only in the West Fork Klickitat River drainage, where they had already been documented. We were able to add the Fish Lake Stream drainage as known habitat. Bull trout were not found

in unnamed tributaries #1 and #2 to Two Lakes Stream. However, the size, spring fed nature, and general habitat characteristics suggest that further sampling is warranted on these streams. No sampling was conducted in the Two Lakes Stream basin upstream of unnamed tributary #2. There are numerous streams and lakes in the area where additional efforts are also warranted.

One of our objectives was to determine if bull trout in the West Fork Klickitat River migrate back and forth with the mainstem. It appears at this time, that the West Fork population is isolated from the mainstem based on three results observed this year. First, no bull trout were captured in the rotary screw trap, even though we consistently caught brook trout and *O. mykiss*. Second, none of the fish observed in the West Fork were greater than 300 mm. Third, no bull trout were observed congregating below the falls at RM 0.3.

Bull trout are clearly susceptible to capture in rotary screw traps (Buchanan et al, 1997; Thiesfeld et al. 1999; Hemmingsen et al. 2001). Since we didn't install the trap until July, we may have missed the main migration period. Metolius River, Oregon, adfluvial bull trout migrate downstream nearly year around, although the peak is generally in April and May (Riehle et al. 1997; Thiesfeld et al. 1999). Fluvial bull trout in the John Day River and Mill Creek (Walla Walla River basin) migrate downstream from spring through fall (Hemmingsen et al. 2001), although traps were not fished in the winter. In the Lewis River, downstream migrating bull trout were captured in a trap fished during June. Hood River bull trout are generally only captured in the spring or fall (Rod French, Oregon Department of Fish and Wildlife, The Dalles, Oregon, personal communication). Fishing a screw trap during the expected peak outmigration in April, May and June would help determine if the West Fork Klickitat River bull trout are migrating downstream and perhaps contributing to the population in the mainstem.

Fluvial and adfluvial bull trout populations generally have fish larger than 300 mm (e.g. Fraley and Shepard 1989; Thiesfeld et al. 1996, Sexauer and James 1997; Hemmingsen 2001). Since we found no fish greater than 250 mm, it is unlikely that a fluvial life history exists. We suspected that the falls at RM 0.3 was a barrier to upstream fish passage. However, we did not find any fish "stalled" there in mid-October. It would be beneficial to repeat the surveys below the falls during July, August and September to determine if bull trout are attempting to migrate upstream. Finally, we will spend time this winter trying to capture bull trout in the mainstem that can be radio-tagged. If successful, these fish should help determine if mainstem fish came from the West Fork Klickitat River or not.

We discovered bull trout in two tributaries in the Fish Lake Stream drainage of West Fork Klickitat. These represent the first published records of bull trout from this drainage. Six bull trout (111-174 mm) were captured in a small unnamed tributary to Fish Lake Stream and two were observed during a night snorkel of Two Lakes Stream. Two Lakes Stream specimens were found just below a 6-8 m high waterfall located 0.8 miles above the confluence with Fish Lake Stream. Additional sampling upstream of the falls should be conducted to verify that the falls are the upstream limit.

We found no bull trout in several nearby tributaries of Two Lakes and Fish Lake streams, even though these tributaries seemed perfect for bull trout. The water was cold, gradients low,

and pools and protective habitat were available. We would expect to find bull trout in some of these tributaries with additional sampling. Bull trout should also be in Fish Lake Stream, especially below the confluence with Two Lakes Stream and near the confluence with the unnamed tributary where bull trout exist.

The West Fork Klickitat River and its tributaries are clearly the "critical" habitat for bull trout in the upper basin. The West Fork Klickitat River and tributaries are primarily spring or glacial fed and are cold. This drainage has good flow year-round and provides three times as much water per square mile as does the rest of the Klickitat River above the West Fork (Cline, 1976). Base flows of late summer and fall are sustained by the West Fork Klickitat River through ground-water discharge and more water released from storage in glaciers (Cline, 1976).

Despite our extensive sampling in the upper basin, Diamond Fork, and the remainder of the basin, we were not able to find any additional bull trout, and usually found streams that were too warm to support healthy bull trout populations. The streams in the lower basin below Outlet Creek, including the Little Klickitat River drainage, appear to have little influence from springs or glacier melt. These streams typically were either dry, or at their lowest point, during the fall spawning period. Summer water temperatures often exceed 15°C. Therefore it is highly unlikely that any of the streams below Outlet Creek support spawning or rearing bull trout. These streams might provide occasional foraging areas for bull trout during the winter and spring, but they should not be considered critical habitat.

In the upper basin upstream of Castile Falls, we were somewhat surprised that we did not find any bull trout. Surrounding the upper Klickitat River are bull trout populations in the West Fork Klickitat River to the south, in Ahtanum Creek and Tieton River to the north, and in the lower Lewis River to the west. Suitable water temperatures, flow, and habitat were noted in a number of smaller tributaries to the mainstem and at a number of westside tributaries to the Diamond Fork. As we explained above, we did not sample the upper Diamond Fork drainage due to the travel distance required to get there. Additional sampling should be conducted there to solidify our conclusion that bull trout are not present in upper basin. If this conclusion holds, it suggests that Castile Falls is, and has been, a barrier to bull trout.

Bull trout were usually found in low density in the Klickitat River basin, except for Trappers Creek. Our bull trout densities from night snorkeling ranged from 0.07 to 10.77 fish/100 m². Trappers Creek and Clearwater Creek were the only streams that exceeded 1.0 bull trout/100 m². Bull trout densities from night snorkel estimates in Metolius River tributaries ranged from 4.82 to 17.68 fish/100 m², although these are considered high in comparison to most other systems (Riehle et al. 1997). Mean bull trout densities in Warm Springs River and Shitike Creek, Oregon, range between 0.5-0.63 fish/100 m² and 2.5-3.2 fish/100 m², respectively (Brun and Dodson 2001). Sexauer and James (1997) reported juvenile bull trout densities in four central Washington streams ranged from 0.34 to 1.85 fish/100 m². Adams and Bjornn (1997) report densities from daytime snorkeling ranged from 0.0 to 9.5 fish/100 m² in the Weiser River system, Idaho.

During this study, we documented several waterfalls that we believe act as barriers to fish movement. Falls # 1 on the West Fork Klickitat River probably prevents movement from the mainstem Klickitat River up the West Fork. A small 1.8 m falls on Trappers Creek 2.1 miles above the confluence with Little Muddy Creek apparently prevents movement of bull trout beyond the falls. A 6-8 m falls on Two Lakes Stream 0.8 miles above the confluence with Fish Lake Stream also likely prevents fish movement above the falls on Two Lakes Stream. We found no bull trout above this falls. A significant 25-30 m falls on Huckleberry Creek in the upper Klickitat River drainage prevents fish movement up Huckleberry Creek above the falls.

Bull trout exist in the mainstem Klickitat River, apparently in low numbers. The mainstem has not been thoroughly sampled for bull trout below Castile Falls and we recommend a more thorough sampling program that targets bull trout. We will attempt to capture bull trout by angling in the Klickitat River below the hatchery during the early months of 2002.

Densities of *O. mykiss* were generally low when compared to other local streams. In the Wind River, rainbow trout and juvenile steelhead densities at a variety of sites ranged from 2.8 to 110 fish/100 m² during sampling conducted from 1996 through 1999 (Patrick J. Connolly, USGS-Columbia River research Laboratory, Cook, Washington, personal communication). Of the 29 sampling efforts by Connolly on the Wind River, only six had densities lower than 10 fish/100 m². Although the presence of steelhead juveniles may be a key factor in the higher densities observed in the Wind River basin, steelhead are present in Outlet Creek and juveniles can easily migrate into Outlet Creek from the Klickitat River; yet the density of *O. mykiss* there was considerably less than observed during most of the Wind River sampling events. The only area we sampled that might approach Wind River densities would be the mainstem Klickitat River below Castile Falls. Both *O. mykiss* and juvenile chinook salmon were too numerous (100's) to count in such a wide river.

Limiting Factors

If our preliminary assessment that bull trout are not able to negotiate the lowest falls on the West Fork Klickitat River is correct, the greatest limiting factor for bull trout in that basin is likely the small amount of available habitat that results in a low total abundance, and the isolation of the population. Many of the streams are fragmented by natural falls which are partial or complete barriers to upstream fish movement. There are only 17.4 miles of stream to support bull trout, including 6.2 miles of Fish Lake Stream where bull trout have never been documented, and the 4 miles downstream of falls #2 on the West Fork Klickitat River (which is likely a barrier to upstream migration). An additional 2 or 3 miles of stream in the unnamed tributary to Fish Lake Stream and in unnamed tributary #1 to Two Lakes Stream might provide additional habitat.

Of the available habitat, high densities were found only in Trappers Creek, Clearwater Creek, and the unnamed tributary to Fish Lake Stream, a combined distance of only 4.1 miles. This small area is the critical habitat for this population. To date, we have not been able to show that any migrations occur in this population, especially for fluvial fish. Rieman and McIntyre (1995) synthesized the work of others on small, isolated populations and suggested they were less

likely to persist because (1) small populations face higher risk of extinction through demographic and environmental stochasticity and Allee effects; and (2) isolated populations have a lower probability of demographic support or recolonization through dispersal from surrounding populations. Because no fish inhabit Clearwater Creek upstream of the falls, it is a good potential area for introducing bull trout and expanding the population. If issues surrounding other species (amphibians, invertebrates, etc...) can be overcome, introduction into Clearwater Creek may be the most efficient activity for enhancing the West Fork Klickitat River population.

Exotic species have been shown to be a detriment to the survival and recovery of bull trout. Brook trout are present throughout the entire Klickitat River drainage and may be negatively impacting bull trout in the West Fork Klickitat River drainage. Donald and Alger (1992) documented that introduced lake trout (*Salvelinus namaycush*) can displace and eliminate native bull trout in lacustrine environments. Markle (1992) studied bull trout, brook trout, and resulting bull/brook hybrids in Oregon and found that some small populations of bull trout are seriously threatened by the presence of brook trout. Hybridization results in offspring that are nearly always sterile, eventually eliminating bull trout from a system (Leary et al. 1993). Surprisingly, we were not able to confirm any hybrids in 2001. Removal or reductions of brook trout might be beneficial for maintaining the bull trout population. However, brook trout removal would be extremely difficult in this system.

Logging and road building activities can threaten bull trout populations both within and downstream of managed areas through increased sediment production and delivery to streams, reduced streamside canopy closure, increased stream temperatures, and reduced woody debris recruitment (Chamberlain et al. 1991; Furniss et al. 1991). Extensive timber harvest and road building has occurred throughout the Klickitat River basin (except for the Primitive Area) and may have resulted in some of these impacts.

ACKNOWLEDGMENTS

This project was funded by the Bonneville Power Administration. We thank Ron Morinaka for his guidance and assistance with funding. We wish to thank those people that assisted with this project including, installation of a screw trap, electroshocking, night snorkeling, and general reconnaissance. Bill Sharp of the Yakama Nation was instrumental in providing people to assist with the project and assisting with necessary permits. The following people from the Yakama Nation installed a screw trap on the West Fork Klickitat River to assist with this assessment of bull trout: Sandy Pinkham, Isadore Honanie, Greg Strom, Roger Stahi, William Wesley, and Noel Eagleheart. We appreciate their experience and hard work.

We also wish to thank Bryan Keithly, Chris Tyndall, Raylene, and Ed Morgan of the Bureau of Indian Affairs office in Glenwood, for their hospitality and for providing accommodations during our work on the Klickitat and White Salmon river basins. We also thank Frank Backus and Jon Cole of SDS Lumber Company for providing permission to survey Spring Creek on SDS property near Northwestern Lake and other SDS property. We also appreciate permission granted by Pat Morris to access SDS property through his land. Nate Putnam of

Campbell Corporation and Eric Keller of Boise Cascade provided keys to access streams on company property.

We thank Dan Rawding, John Weinheimer, Jim Byrne, and Craig Burley who provided valuable guidance and advice.

LITERATURE CITED

- Adams, S.B., and T.C. Bjornn. 1997. Bull trout distributions related to temperature regimes in four central Idaho streams. Pages 371-380 in W.C. Mackay, M.K. Brewin, and M. Monita, editors. Friends of the bull trout conference proceedings. Bull Trout Task Force (Alberta), c/o Trout Unlimited Canada, Calgary.
- Brun, C.V., and R.D. Dodson. 2001. Bull trout distribution and abundance in the waters on and bordering the Warm Springs Reservation. Project Number 199405400. Confederated Tribes of the Warm Springs Reservation. 2000 Annual Report. Prepared for U.S. Department of Energy, Bonneville Power Administration, Portland, Oregon.
- Buchanan, D.V., M.L. Hanson, and R.M. Hooton. 1997. Status of Oregon's bull trout. Oregon Department of Fish and Wildlife. Portland, Oregon.
- Byrne, J., R. McPeak, and B. McNamara. 2001. Bull Trout Population Assessment in the Columbia River Gorge. Washington Department of Fish and Wildlife. BPA Contract #00000651-00001. Prepared for U.S. Department of Energy, Bonneville Power Administration, Portland, Oregon.
- Chamberlain, T.W., R.D. Harr, and F.H. Everest. 1991. Timber harvesting, silviculture, and watershed processes. American Fisheries Society Special Publication 19:181-206.
- Cline, D.R. 1976. Reconnaissance of the water resources of the upper Klickitat River basin, Yakima Indian Reservation, Washington. Open-File Report 75-518. United States Department of the Interior, Geological Survey. Tacoma, Washington.
- Donald, D.B., and D.J. Alger. 1992. Geographic distribution, species displacement, and niche overlap for lake trout and bull trout in mountain lakes. Canadian Journal of Zoology 71:238-247.
- Dunham, J.B., and B.E. Rieman. 1999. Metapopulation structure of bull trout: influences of physical, biotic, and geometrical landscape characteristics. Ecological Applications 9(2): 642-655.
- Fraley, J.J., and B.B. Shepard. 1989. Life history, ecology and population status of migratory bull trout (*Salvelinus confluentus*) in the Flathead Lake river system, Montana. Northwest Science 63:133-143.

- Furniss, M.J., T.D. Roelofs, and C.S. Yee. 1991. Road construction and maintenance. American Fisheries Society Special Publication 19:297-324.
- Hemmingsen, A.R., S.L. Gunckel, and P.J. Howell. 2001. Bull trout life history, genetics, habitat needs, and limiting factors in central and northeast Oregon. 1999 Annual Report. Prepared for U.S. Department of Energy, Bonneville Power Administration. Project Number 199405400. Oregon Department of Fish and Wildlife, Portland.
- Kostow, K. 1995. Biennial report on the status of wild fish in Oregon. Oregon Department of Fish and Wildlife. Portland, Oregon.
- Leary, R.F., F.W. Allendorf, and S.H. Forbes. 1993. Conservation genetics of bull trout in the Columbia and Klamath River drainages. Conservation Biology 7:856-865.
- Markle, D.F. 1992. Evidence of bull trout x brook trout hybrids in Oregon. Pages 58-67 *in* P.J. Howell and D.V. Buchanan, editors. Proceedings of the Gearhart Mountain bull trout workshop. Oregon Chapter of the American Fisheries Society, Corvallis.
- Northwest Power Planning Council. 2000. Draft. Klickitat Subbasin Summary. Prepared for the Northwest Power Planning Council. Columbia Basin Fish and Wildlife Authority. Portland, Oregon.
- Peterson, J., J. Dunham, P. Howell, R. Thurow, and S. Bonar. 2002. Protocol for detecting bull trout presence. Report to Western Division American Fisheries Society. American Fisheries Society, Bethesda, Maryland.
- Reynolds, J.B. 1996. Electrofishing. Pages 221-254 in B.R. Murphy and D.W. Willis, editors. Fisheries Techniques. American Fisheries Society, Bethesda, Maryland.
- Riehle, M., W. Weber, A.M. Stuart, S.L. Thiesfeld, and D.E. Ratliff. 1997. Progress report of the multi-agency study of bull trout in the Metolius River system, Oregon. Pages 137-144 *in* W.C. Mackay, M.K. Brewin, and M. Monita, editors. Friends of the bull trout conference proceedings. Bull Trout Task Force (Alberta), c/o Trout Unlimited Canada, Calgary.
- Rieman, B.E., and J.D. McIntyre. 1993. Demographic and habitat requirements for conservation of bull trout. General Technical Report INT-302, USDA Forest Service, Intermountain Research Station, Ogden, Utah.
- Rieman, B.E., and J.D. McIntyre. 1995. Occurrence of bull trout in naturally fragmented patches of varied size. Transactions of the American Fisheries Society 124:285-296.
- Sexauer, H.M., and P.W. James. 1997. Microhabitat use by juvenile bull trout in four streams located in the eastern Cascades, Washington. Pages 361-370 *in* W.C. Mackay, M.K.

- Brewin, and M. Monita, editors. Friends of the bull trout conference proceedings. Bull Trout Task Force (Alberta), c/o Trout Unlimited Canada, Calgary.
- Spruell P., and F.W. Allendorf. 1997. Nuclear DNA analysis of Oregon bull trout. Oregon Department of Fish and Wildlife Report 97/5. Portland, Oregon.
- Thiesfeld, S.L., A.M. Stuart, D.E. Ratliff, and B.D. Lampman. 1996. Migration patterns of adult bull trout in the Metolius River and Lake Billy Chinook, Oregon. Information Report 96-1. Oregon Department of Fish and Wildlife, Portland.
- Thiesfeld, S.L., J.C. Kern, A.R. Dale, M.W. Chilcote, and M.A. Buckman. 1999. Lake Billy Chinook sockeye salmon and kokanee research study 1996-1998, contract completion report. Prepared for Portland General Electric. Oregon Department of Fish and Wildlife. Portland.
- Washington Department of Fish and Wildlife. 1998. Washington State salmonid stock inventory: Bull Trout/Dolly Varden. 600 Capitol Way North, Olympia, Washington 98501.

Appendix A. Habitat measurements from streams in the Klickitat and White Salmon river basins, 2001.

APPENDICES

Appendix A. Habitat measurements from streams in the Klickitat and White Salmon river basins, 2001.

DATE	STREAM	TRIBUTARY OF	BASIN	TRANSECT	LENGTH	TEMP	GRADIENT	GRADIENT DISTANCE	ГМБ	WIDTH 1	WIDTH 2	DEPTH 1/4-1	DEPTH 1/4-2	DEPTH 1/2-1	DEPTH 1/2-2	DEPTH 3/4-1	DEPTH 3/4-2
	W. Fork Klickitat	Klickitat	Klickitat	1	100	9.5	2.5	46	0	16	11.1	64	5	11	73	59	76
16-Jul-01	Trappers	Little Muddy	Klickitat	1	100	6.5	5	23	71	3.7	2.6	15	8	18	16	4	8
16-Jul-01	Trappers	Little Muddy	Klickitat	2	100	6.5	1	100	55	4.1	4.1	23	16	23	14	20	28
	W. Fork Klickitat	Klickitat	Klickitat	2	100	9.5	2.25	100	30	20	13	15		52		63	
17-Jul-01	Klickitat	Columbia	Klickitat	1	100	11.5	0.75	100	4	28.3	19.7	32	21	33	44	16	
17-Jul-01	Klickitat	Columbia	Klickitat	2	100	11.5	0.38	100	2	19.7	13	21	71	44	100+	57	100+
23-Jul-01	Trappers	Little Muddy	Klickitat	3	100	9.5	4.75	47	29	1.8	3.4	10	10	11	11	7	6
23-Jul-01	Trappers	Little Muddy	Klickitat	4	100	9.5	2	27	21	3.8	3	4	21	17	21	7	
23-Jul-01	W. Fork Klickitat	Klickitat	Klickitat	3	100	11.5	1.25	100	32	18.6	17.1	56	35	8	76	54	44
30-Jul-01	Clearwater	Little Muddy	Klickitat	1	100	7	4	73	84	7.5	12.2	35	40	38	32	19	
31-Jul-01	Klickitat	Columbia	Klickitat	3	100	13	0.5	100	22	11.2	10.3	56	46	36	46	35	27
31-Jul-01	Klickitat	Columbia	Klickitat	4	100	12.8	1	100	9	11.2	6.7	15	67	20	86	24	39
31-Jul-01	Klickitat	Columbia	Klickitat	5	100	12.8	0.9	100	13	6.6	7.3	10	20	27	19	30	23
27-Aug-01	Unnamed #1	Klickitat	Klickitat	1	80.5	6	2.75	80	17	2.1	2.1	7	13	6	9	7	
27-Aug-01	Klickitat	Columbia	Klickitat	6	100	11.5	2.5	100	61	5.7	9.7	0	1	17	0	32	
27-Aug-01	Klickitat	Columbia	Klickitat	7	100	11.5	3	50	29	9.7	5	1	12	0	25	12	
27-Aug-01	Klickitat	Columbia	Klickitat	8	100	11.5	2.5	50	41	5	7.6	12	6	25	0	14	
27-Aug-01	Klickitat	Columbia	Klickitat	9	49	11.5	2	50	13	7.6	9.1	6	30	0	42	20	21
25-Sep-01	Two Lakes	Fish Lake	Klickitat	1	100	5	3.4	100	24	8.9	16	13	32	7	17	24	26
25-Sep-01	Two Lakes	Fish Lake	Klickitat	2	100	5	5	100	29	16	14.4	32	0	17	52	26	28
8-Oct-01	Unnamed #1	Two Lakes	Klickitat	1	100	4.5	2	52	89	8	10	43	0	16	39	3	
8-Oct-01	Unnamed #1	Two Lakes	Klickitat	2	100	4.5	2.25	47	100	10	13.5	0	0	39	12	32	46
	Unnamed #1	Unnamed Trib # 1 of Two Lakes	Klickitat	1	100	4			83	3.8	3.3	21	18	17	11	13	
9-Oct-01		Klickitat	Klickitat	1	100	8.5	5.25	100	4	7.2	14.2	50	49	0	44	20	93
9-Oct-01	Outlet	Klickitat	Klickitat	2	100	8.5	4.75	86	0	14.2	10.7	49	61	44	0	93	41
	Middle Fork Buck	White Salmon	White Salmon	1	100	8.3	12.5	74	14	6.1	3.9	60	0	17	16	0	
26-Jun-01		White Salmon	White Salmon	1	100	12	3	100	10	7	5	23	21	20	37	16	
26-Jun-01		White Salmon	White Salmon	2	100	10.5	4.5	75	13	11	7	0	2	6	30	10	
26-Jun-01	Buck	White Salmon	White Salmon	3	100	10.5	3.75	100	9	7	6	2	10	30	21	11	5

Appendix A. Habitat measurements from streams in the Klickitat and White Salmon river basins, 2001.

26-Jun-01	Meadow	Trout Lake	White Salmon	1	100	11	0.5	30	13	9	10	110	34	80	85	69	86
26-Jun-01	Meadow	Trout Lake	White Salmon	2	100	11	0.5	35	9	10	9.5	34	18	85	101	86	64
27-Jun-01	Meadow	Trout Lake	White Salmon	3	100	9	2.5	52		3	18	19	2	17	0	12	4
2-Jul-01	Lost	None	None	1	100	8.5	1.25	100	22	8.6	5.7	80	17	3	29	20	39
2-Jul-01	Lost	None	None	2	100	8.5	1.25	90	9	5.7	10	17	38	29	22	39	0
2-Jul-01	Little Goose	Trout Lake	White Salmon	1	100	9.5	2	61	22	10	5	8	3	15	14	17	21
9-Jul-01	Smokey	Little Goose	White Salmon	1	100	14	4.5	56	21	3.2	1.7	22	2	25	3	27	0
9-Jul-01	Cultus	Trout Lake	White Salmon	1	100	14	5	78	7	11.4	4.1	0	23	20	0	26	34
9-Jul-01	Cultus	Trout Lake	White Salmon	2	100	14	5	100	5	4.1	4.4	23	22	0	25	34	0
10-Jul-01	Mosquito	Trout Lake	White Salmon	1	100	7	1	20	28	2.5	2.2	12	10	6	12	10	14
10-Jul-01	Mosquito	Trout Lake	White Salmon	2	100	7	7.25	46	28	2.5	1.9	13	11	7	16	14	13
10-Jul-01	Cultus	Trout Lake	White Salmon	3	100	10.5	1.75	75	3	2.7	3.6	20	8	24	12	20	0
10-Jul-01	Cultus	Trout Lake	White Salmon	4	100	10.5	2	30	12	3.6	1.8	8	29	12	30	0	12
13-Aug-01	Spring	White Salmon	White Salmon	1	100	11	1.2	68	23	4	6	39	28	31	37	12	21
13-Aug-01	Spring	White Salmon	White Salmon	2	100	11	1.5	88	12	4.6	2.4	16	29	23	29	28	14
13-Aug-01	Spring	White Salmon	White Salmon	3	100	11	1	68	6	3	3.4	37	36	39	69	24	43

DATE	STREAM	TRIBUTARY OF	BASIN	TRANSECT	MAX 1	MAX 2	COBBLE 1	COBBLE 2	TYPE 1	TYPE 2	COVER 1	COVER 2	COMMENT
	W. Fork Klickitat	Klickitat	Klickitat	1	77		17	17		G	0		1/2 mile below upper falls
	Trappers	Little Muddy	Klickitat	1	27	20		15	r	r	20	80	above Adams Lake Road
	Trappers	Little Muddy	Klickitat	2	23	30		0	p/g	р	90		below Adams Lake Road
17-Jul-01	W. Fork Klickitat	Klickitat	Klickitat	2	100+		rock		r	r	20	0	below lower falls
17-Jul-01	Klickitat	Columbia	Klickitat	1	51	62		17	g	g	0	0	below castile falls
17-Jul-01	Klickitat	Columbia	Klickitat	2	62	100+	17	0	g	р	0	0	below castile falls
23-Jul-01	Trappers	Little Muddy	Klickitat	3	17	19	6	11	r	r	90	10	below falls
23-Jul-01	Trappers	Little Muddy	Klickitat	4	17	34	17	14		р	100	100	above falls
23-Jul-01	W. Fork Klickitat	Klickitat	Klickitat	3	67	86	30	18		r	20	5	~150 m above bridge
30-Jul-01	Clearwater	Little Muddy	Klickitat	1	53	40	rock	20	r	r	40	10	between falls 1 and 2
31-Jul-01	Klickitat	Columbia	Klickitat	3	56	51	18	21	g	g	10	0	end of road
31-Jul-01	Klickitat	Columbia	Klickitat	4	32	90	16	9	g	р	0	0	end of road
31-Jul-01	Klickitat	Columbia	Klickitat	5	34	29	16	14	g	r	0	0	end of road
27-Aug-01	Unnamed #1	Klickitat	Klickitat	1	8	15	6	1	g	r	100	0	upstream of road
27-Aug-01	Klickitat	Columbia	Klickitat	6	53	25	16	16	р	r	50	20	way up
27-Aug-01		Columbia	Klickitat	7	25	27	16	11	r	r	20	0	
27-Aug-01	Klickitat	Columbia	Klickitat	8	27	38	11	12	r	r/p	0	30	

Appendix A. Habitat measurements from streams in the Klickitat and White Salmon river basins, 2001.

27-Aug-01	Klickitat	Columbia	Klickitat	9	38	47	12	13 r/p	р	30	5	
25-Sep-01	Two Lakes	Fish Lake	Klickitat	1	37	39 rc	ock	rock g	g	70	5	below falls
25-Sep-01	Two Lakes	Fish Lake	Klickitat	2	39	56 rc	ock	5 g	р	5	60	below falls
8-Oct-01	Unnamed #1	Two Lakes	Klickitat	1	43	49	7	2 r	r	15	25	trib just upstream from confluence with fish lake stream
8-Oct-01	Unnamed #1	Two Lakes	Klickitat	2	49	70	2	4 r	r	25	80	trib just upstream from confluence with fish lake stream
8-Oct-01	Unnamed #1	Unnamed Trib # 1 of Two Lakes	Klickitat	1	28	21	0	3 p	r	97	80	
9-Oct-01	Outlet	Klickitat	Klickitat	1	85	99	32	19 r	r	0	35	
9-Oct-01	Outlet	Klickitat	Klickitat	2	99	112	19	23 r	r	35	20	
26-Jun-01	Middle Fork Buck	White Salmon	White Salmon	1	63	35	24	100 p	р	100	98	
26-Jun-01	Buck	White Salmon	White Salmon	1	35	51	25	25 r	g	100	90	below irrigation diversion
26-Jun-01	Buck	White Salmon	White Salmon	2	30	37	15	22 r	r	40	95	above dam, just below confluence with south fork
26-Jun-01	Buck	White Salmon	White Salmon	3	37	36	22	17 r	r	95	85	above dam, just below confluence with south fork
26-Jun-01	Meadow	Trout Lake	White Salmon	1	112	91	0	0 p	р	0	0	above 88 road
26-Jun-01	Meadow	Trout Lake	White Salmon	2	91	102	0	0 p	р	0	20	above 88 road
27-Jun-01	Meadow	Trout Lake	White Salmon	3	26	22	17	7 r	r	0	80	above 26 trail
2-Jul-01	Lost	None	None	1	21	42	21	17 r	р	10	2	due east of 750 road
2-Jul-01	Lost	None	None	2	42	38	17	14 p	r	2	25	due east of 750 road
2-Jul-01	Little Goose	Trout Lake	White Salmon	1	24	50	8	19 p	r	8	25	above 883
9-Jul-01	Smokey	Little Goose	White Salmon	1	30	11	0	18 p/r	r	20	100	below 8831 road
9-Jul-01	Cultus	Trout Lake	White Salmon	1	28	34	25	rock r	r	30	15	88 road
9-Jul-01	Cultus	Trout Lake	White Salmon	2	34	25 rc	ock	22 r	r	15	0	88 road
10-Jul-01	Mosquito	Trout Lake	White Salmon	1	18	15	10	9 r	r	100	55	88 road
10-Jul-01	Mosquito	Trout Lake	White Salmon	2	15	18	10	15 r	r	60	80	8854 road
10-Jul-01	Cultus	Trout Lake	White Salmon	3	25	23	16	9 r	r	100	10	24 road
10-Jul-01	Cultus	Trout Lake	White Salmon	4	23	30	9	10 r	r	10	95	24 road
13-Aug-01	Spring	White Salmon	White Salmon	1	43	37	7	8 g	g	98	20	below Spring Creek Road
13-Aug-01		White Salmon	White Salmon	2	28	31	4	9 g	r	30		below Spring Creek Road
13-Aug-01	Spring	White Salmon	White Salmon	3	39	85	7	6 g	р	90	0	below Spring Creek Road

Appendix B. Snorkel counts from streams in the Klickitat and White Salmon river basins, 2001.

			1	1													
DATE	STREAM	TRIBUTARY OF	BASIN	LOCATION	TRANSECT	RB<	RB >	BK<	BK>	BU<	BU>	ò os	\(\frac{1}{2}\)	^ 02	С¥	SCULPIN	COMMENTS/OTHER
7/16	West Fork Klickitat	Klickitat	Klickitat	Below upper falls	1	4	21	6	17	7 1	!	9 (0	0	0	0	many brooks maybe hybrids
7/16	Trappers	Little Muddy	Klickitat	Above Adams Lake road	1	0	0	0	C) () (0 (0	0	0	0	none
7/16	Trappers	Little Muddy	Klickitat	Below Adams Lake road	1	_	_) (0 (0	0	0	0	none
7/17	West Fork Klickitat	Klickitat	Klickitat	Below Lower Falls	1	21	19		_			-	0	0	7	4	1 wf
7/17	Klickitat	Columbia	Klickitat	Below Castile Falls	1	nc	nc	3		_) (0 (0	0 1	nc	nc	many chinook and rainbow, too many to count
7/17	Klickitat	Columbia	Klickitat	Below Castile Falls		nc	nc	2				-	0		nc	nc	many chinook and rainbow, too many to count
7/23	Trappers	Little Muddy	Klickitat	Below Falls	1		_		_			_	0	0	0	0	
7/23	Trappers	Little Muddy	Klickitat	Above Falls	1			_	_		_	-	0	0	0		
	West Fork Klickitat	Klickitat	Klickitat	Above bridge	1			_	_	_		_	0	0	0	_	
	Clearwater	Little Muddy	Klickitat	Above First Falls	1	0					_	-	0	0	0		115115
	Klickitat	Columbia	Klickitat	Upper #1	1								0	0	77		3 rainbows with fungus
	Klickitat	Columbia	Klickitat	Upper #1	2			_	_			-	0	0	60	0	
	Klickitat	Columbia	Klickitat	Upper #1	3		_		4		_	_	0	_	103		1 rainbow with fungus
	Two Lakes	Fish Lake	Klickitat		1	46							0	0	0	0	
9/26	Two Lakes	Fish Lake	Klickitat		2		_						0	0	0		
10/8	Unnamed #2	Two Lakes	Klickitat		1	1	Ŭ		_		_		0	0	0	_	,
10/8	Unnamed #1	Two Lakes	Klickitat		1	1		_	-	3 0			0	0	0	0	Sider a dat death (1) mended 1 mg
10/9	Outlet	Klickitat	Klickitat		1	81	56	3	4	1 C) (0 2	0	4	0	4	Rb count (<) includes 6 fry; also 2 adult hatchery steelhead seen coho count includes (<) 3 fry and (>) 4 adults
10/9	Outlet	Klickitat	Klickitat		2	119	86	0	C) () (0 4	4	0	0	0	rainbow count (<) includes 4 fry; 3 adult hatchery steelhead seen
6/26	Buck	White Salmon	White Salmon		1	0	0	0	C) () (0 (0	0	0	0	no fish on middle fork of Buck Creek
6/26	Buck	White Salmon	White Salmon		1	54	13	0	C) () (0 (0	0	0	6	lower section of Buck Creek
6/26	Buck	White Salmon	White Salmon		1	51	35	0	C) () (0 (0	0	0	0	section on Buck Creek above dam
6/26	Buck	White Salmon	White Salmon		2		31	0	C) () (0 (0	0	0	0	section on Buck Creek above dam
6/27	Meadow	Trout Lake	White Salmon		1	45		0	C) () (0 (0	0	0	0	lower Meadow Creek
6/27	Meadow	Trout Lake	White Salmon		2	32	10	0	C) () (0	0	0	0	0	lower Meadow Creek
6/27	Meadow	Trout Lake	White Salmon		1	20	16	0	() () (0 (0	0	0	0	upper Meadow Creek
7/2	Lost	none	none	off 750 rd	1	1	1	0	2	2 0) (0 (0	0	0	0	
	Lost	none	none	off 750 rd	2		_	·				-	0	0	0		
	Little Goose	Trout Lake	White Salmon	off 8831 rd	1		_					-	0	0	0	_	
7/9	Smokey	Little Goose	White Salmon	off 8831 rd	1				_		_	-	0	0	0		
	Cultus	Trout Lake	White Salmon	Lower	1							-	0	0	0		on 88 rd
	Cultus	Trout Lake	White Salmon	Lower	2		_						0	0	0		on 88 rd
	Mosquito	Trout Lake	White Salmon	Lower	1		_		2			-	0	0	0	0	0.0000.00
	Mosquito	Trout Lake	White Salmon	Upper	1	0		_	_) (_	-	0	0	0		,
	Cultus	Trout Lake	White Salmon	Upper	1	0	_					•	0	0	0		no fish; off 24 rd
	Cultus	Trout Lake	White Salmon	Upper	2		_	_	_				0	0	0	_	no fish; off 24 rd
	Spring	White Salmon	White Salmon		1	56							0	0	0		rainbows (<)
	Spring	White Salmon	White Salmon		2				_			-	0	0	0	6	
8/13	Spring	White Salmon	White Salmon		3	55	4	5	4	1 C) (0 (0	0	0	0	below Lower Spring Creek rd on SDS property; fungus on 1 rainbow (<)

Appendix C. Electroshock data from streams in the Klickitat and White Salmon river basins, 2001.

II.		T	ı				
				Temperature	Species	Fork Length	
Date	Stream	Tributary of	Basin				Comments
_	Unnamed #1	Cave	White Salmon	5.8	Bk		below 707 road
	Unnamed #1	Cave	White Salmon	5.8		89	below 707 road
$\overline{}$	Unnamed #1	Cave	White Salmon	5.8		151	below 707 road
	Unnamed #1 Unnamed #1	Cave Cave	White Salmon White Salmon	5.8 5.8	Bk	59	below 707 road below 707 road
	Unnamed #1	Cave	White Salmon		Bk		
	Unnamed #1	Cave	White Salmon		Bk		below 707 road
	Unnamed #1	Cave	White Salmon				
	Unnamed #1	Cave	White Salmon		Bk	83	
	Unnamed #1	Cave	White Salmon	5.8	Bk	92	
8/29	Unnamed #1	Cave	White Salmon	5.8	Bk	50	below 707 road
-	Unnamed #1	Cave	White Salmon		Bk	51	
-	Unnamed #1	Cave	White Salmon	5.8	Bk	54	
	Unnamed #2	Cave	White Salmon	7.2			off of 041 road, sds property, no fish captured
	Beaver	Cave	White Salmon	13.3		145	above 8631 road
	Beaver	Cave	White Salmon	13.3		147	above 8631 road
	Beaver	Cave	White Salmon	13.3		156	above 8631 road
	Beaver	Cave	White Salmon	13.3		49 54	above 8631 road
	Beaver Beaver	Cave Cave	White Salmon White Salmon	13.3 13.3		42	
	Beaver	Cave	White Salmon	13.3		49	
-	Beaver	Cave	White Salmon	13.3		49	above 8631 road
	Beaver	Cave	White Salmon	13.3		42	above 8631 road
	Beaver	Cave	White Salmon	13.3		54	
	Beaver	Cave	White Salmon	13.3			
8/29	Beaver	Cave	White Salmon	13.3		105	above 8631 road
8/29	Beaver	Cave	White Salmon	13.3	Bk	102	above 8631 road
8/29	Beaver	Cave	White Salmon	13.3	Bk	62	above 8631 road
	Beaver	Cave	White Salmon	13.3		53	above 8631 road
	Beaver	Cave	White Salmon	13.3			above 8631 road
	Beaver	Cave	White Salmon	13.3			above 8631 road
	Beaver	Cave	White Salmon	13.3		147	above 8631 road
	Beaver Beaver	Cave Cave	White Salmon White Salmon	13.3 13.3		53 45	above 8631 road above 8631 road
	Beaver	Cave	White Salmon	13.3		52	above 8631 road
9/20		White Salmon	White Salmon		Rb	134	
9/20		White Salmon	White Salmon		Rb		above horse ranch
9/20	Mill	White Salmon	White Salmon		Rb		above horse ranch
9/20		White Salmon	White Salmon				above horse ranch
9/20		White Salmon	White Salmon		Rb		above horse ranch
9/20		White Salmon	White Salmon	12	Rb	115	above horse ranch
9/20	Mill	White Salmon	White Salmon		Rb	110	above horse ranch
9/20		White Salmon	White Salmon		Rb		above horse ranch
9/20		White Salmon	White Salmon		Rb		above horse ranch
9/20		White Salmon	White Salmon		Rb		above horse ranch
9/20		White Salmon	White Salmon White Salmon		Rb		above horse ranch
9/20 9/20		White Salmon	White Salmon		Rb Rb		above horse ranch above horse ranch
9/20		White Salmon White Salmon	White Salmon				above horse ranch
9/20		White Salmon	White Salmon				above horse ranch
9/20		White Salmon	White Salmon				above horse ranch
9/20		White Salmon	White Salmon		Rb		above horse ranch
9/20		White Salmon	White Salmon		Rb		above horse ranch
9/20		White Salmon	White Salmon	12	Rb	89	above horse ranch
9/20		White Salmon	White Salmon	12	Rb	90	above horse ranch
9/20		White Salmon	White Salmon			47	above horse ranch
9/20		White Salmon	White Salmon		Rb		above horse ranch
9/20		White Salmon	White Salmon		Rb		above horse ranch
9/20		White Salmon	White Salmon				above horse ranch
9/20		White Salmon	White Salmon				above horse ranch
9/20 9/20		White Salmon White Salmon	White Salmon White Salmon		Rb Rb		above horse ranch above horse ranch
3/20	IVIIII	WING SAIIIOH	vviin e SaliliOil	12	IVD	01	adove helse fallen

Appendix C. Electroshock data from streams in the Klickitat and White Salmon river basins, 2001.

S200 Mill White Salmon White Salmon White Salmon Yellow Salmon White Salmon Yellow Salmon Yell								
Month White Salmon White Salmon 12 Rb 133 above horse ranch	9/20	Mill	White Salmon	White Salmon	12	Rb	52	above horse ranch
Month White Salmon White Salmon 12 Rb 133 above horse ranch	9/20	Mill	White Salmon				43	
2020 Mill White Salmon White Salmon 12 Rb 147 above horse ranch								
1920 Mill White Salmon White Salmon 12 Rb 119 above horse ranch								
1920 Mill White Salmon White Salmon 12 Rb 110 above horse ranch								
1920 Mill White Salmon White Salmon 12 Rb 115 above horse ranch								
920 Mill White Salmon White Salmon 12 Rb 113 above horse ranch								
920 Mill White Salmon White Salmon 12 Rb 90 above horse ranch								
920 Mill White Salmon White Salmon 12 Ro 78 above horse ranch								
920 Mill White Salmon White Salmon 12 Rb 47 above horse ranch								
9700 Mill White Salmon White Salmon 12 Rb 47 above horse ranch							78	
920 Mill White Salmon White Salmon Ville			White Salmon				47	above horse ranch
920 Mill White Salmon White Salmon 12 Rb 132 above horse ranch 920 Mill White Salmon White Salmon White Salmon 12 Rb 78 above horse ranch 920 Mill White Salmon White Salmon White Salmon 12 Rb 78 above horse ranch 920 Mill White Salmon White Salmo	9/20	Mill	White Salmon	White Salmon	12	Rb	47	above horse ranch
920 Mill	9/20	Mill	White Salmon	White Salmon	12	Rb	49	above horse ranch
9/20 Mill White Salmon White Salmon Vinite Salmon	9/20	Mill	White Salmon	White Salmon	12	Rb	132	above horse ranch
9200 Mill White Salmon White S	9/20	Mill	White Salmon	White Salmon	12	Rb	78	above horse ranch
920 Mill White Salmon White Salmon 12 Rb 88 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 80 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 116 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 116 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 94 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 94 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 94 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 94 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 94 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 94 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 94 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 49 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 49 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 49 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 49 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 49 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 48 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 48 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 13 Rb 18 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 18 Rb 18 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 18 Rb 18 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 18 Rb 18 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 18 Rb 18 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 18 Rb 18 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 18 Rb 18 above horse ranch 920 Mill White Salmon White Salmon White Salmon White Salmon 12 Rb 19 Above horse ranch 920 Mill White Salmon White								
920 Mill White Salmon White Salmon 12 Rb 80 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 116 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 94 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 94 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 92 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 92 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 92 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 54 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 54 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 54 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 54 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 47 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 47 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 74 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 74 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 74 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 17 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 18 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 18 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 11 Rb 83 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 13 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 13 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 13 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 13 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 18 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 18 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 18 above horse ranch 920 Mill White Salmon White Salmo								
920 Mill White Salmon White Salmon 12 Rb 116 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 94 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 94 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 92 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 92 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 92 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 82 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 92 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 92 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 93 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 17 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 17 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 17 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 17 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 17 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 17 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 18 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 18 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 18 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 18 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 18 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 18 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 18 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 18 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 18 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 18 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 18 above horse ranch 920 Mill White Salmon White Salmon Whit								
920 Mill White Salmon White Salmon 12 Rb 39 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 39 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 39 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 40 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 45 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 47 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 47 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 47 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 47 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 49 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 49 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 47 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 13 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 137 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 137 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 133 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 133 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 133 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 133 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 133 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 13 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 13 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 13 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 13 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 13 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 13 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 13 above horse ranch 920 Mill White Salmon White Salmo								
920 Mill White Salmon White Salmon 12 Rb 92 above horse ranch								
920 Mill White Salmon White Salmon 12 Rb 92 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 48 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 82 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 82 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 83 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 47 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 48 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 48 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 48 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 137 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 148 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 148 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 12 Bbove horse ranch 920 Mill White Salmon White Salmon 12 Rb 12 Bbove horse ranch 920 Mill White Salmon White Salmon 12 Rb 12 Bbove horse ranch 920 Mill White Salmon White Salmon 12 Rb 12 Bbove horse ranch 920 Mill White Salmon White Salmon 12 Rb 12 Bbove horse ranch 920 Mill White Salmon White Salmon 12 Rb 12 Bbove horse ranch 920 Mill White Salmon White Salmon 12 Rb 13 Bbove horse ranch 920 Mill White Salmon White Salmon 12 Rb 13 Bbove horse ranch 920 Mill White Salmon White Salmon 12 Rb 13 Bbove horse ranch 920 Mill White Salmon White Salmon 12 Rb 13 Bbove horse ranch 920 Mill White Salmon White Salmon 12 Rb 13 Bbove horse ranch 920 Mill White Salmon White Salmon 12 Rb 13 Bbove horse ranch 920 Mill White Salmon White Salmon 12 Rb 13 Bbove horse ranch 920 Mill White Salmon White Salmon 12 Rb 13 Bbove horse ranch 920 Mill White Salmon White Salmon 12 Rb 13 Bbove hors								
970 Mill White Salmon White Salmon 12 Rb 32 above horse ranch 970 Mill White Salmon White Salmon 12 Rb 35 above horse ranch 970 Mill White Salmon White Salmon 12 Rb 35 above horse ranch 970 Mill White Salmon White Salmon 12 Rb 47 above horse ranch 970 Mill White Salmon White Salmon 12 Rb 47 above horse ranch 970 Mill White Salmon White Salmon 12 Rb 48 above horse ranch 970 Mill White Salmon White Salmon 12 Rb 49 above horse ranch 970 Mill White Salmon White Salmon 12 Rb 47 above horse ranch 970 Mill White Salmon White Salmon 12 Rb 47 above horse ranch 970 Mill White Salmon White Salmon 12 Rb 137 above horse ranch 970 Mill White Salmon White Salmon 12 Rb 137 above horse ranch 970 Mill White Salmon White Salmon 12 Rb 137 above horse ranch 970 Mill White Salmon White Salmon 12 Rb 137 above horse ranch 970 Mill White Salmon White Salmon 12 Rb 133 above horse ranch 970 Mill White Salmon White Salmon 12 Rb 133 above horse ranch 970 Mill White Salmon White Salmon 12 Rb 133 above horse ranch 970 Mill White Salmon White Salmon 12 Rb 132 above horse ranch 970 Mill White Salmon White Salmon 12 Rb 132 above horse ranch 970 Mill White Salmon White Salmon 12 Rb 132 above horse ranch 970 Mill White Salmon White Salmon 12 Rb 13 above horse ranch 970 Mill White Salmon White Salmon 12 Rb 13 above horse ranch 970 Mill White Salmon White Salmon 12 Rb 13 above horse ranch 970 Mill White Salmon White Salmon 12 Rb 13 above horse ranch 970 Mill White Salmon White Salmon 12 Rb 13 above horse ranch 970 Mill White Salmon White Salmon 12 Rb 13 above horse ranch 970 Mill White Salmon White Salmon 12 Rb 13 above horse ranch 970 Mill White Salmon White Salmon 13 Rb 13 above horse ranch 970 Mill White Salmon White Salm								
920 Mill White Salmon White Salmon 12 Rb 82 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 67 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 47 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 47 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 47 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 47 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 137 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 137 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 137 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 137 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 133 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 133 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 133 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 133 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 133 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 133 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 133 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 133 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 133 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 133 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 137 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 137 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 137 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 137 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 137 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 133 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 137 above horse ranch 920 Mill White Salmon								
920 Mill White Salmon White Salmon 12 Rb 55 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 47 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 49 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 49 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 137 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 137 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 137 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 137 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 13 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 13 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 12 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 12 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 13 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 13 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 13 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 13 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 13 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 13 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 13 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 13 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 13 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 13 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 13 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 13 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 13 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 13 above horse ranch 920 Mill White Salmon White Salmon 14 Rb 15 above hor								
9/20 Mill White Salmon White Salmon 12 Rb 47 above horse ranch	9/20	Mill	White Salmon	White Salmon			82	above horse ranch
920 Mill White Salmon White Salmon 12 Rb 49 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 137 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 137 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 137 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 137 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 12 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 132 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 133 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 133 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 133 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 12 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 12 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 52 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 133 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 130 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 130 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 130 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 130 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 130 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 130 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 130 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 153 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 153 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 153 above horse ranch 920 Mill White Salmon White Salmon 12 Rb 155 above horse ranch 920 Mill White Salmo	9/20	Mill	White Salmon	White Salmon	12	Rb	55	above horse ranch
9/20 Mill White Salmon White Salmon 12 Rb 46 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 137 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 74 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 83 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 112 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 133 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 133 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 133 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 112 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 112 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 112 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 107 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 107 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 107 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 119 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 119 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 138 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 138 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 138 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 138 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 138 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 138 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 138 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 138 above horse ranch 9/20 Mill White Salmon White Salmon 138 Rb 63 above horse ranch	9/20	Mill	White Salmon	White Salmon	12	Rb	47	above horse ranch
920 Mill White Salmon White Salmon 12 Rb 74 above horse ranch 9720 Mill White Salmon White Salmon 12 Rb 74 above horse ranch 9720 Mill White Salmon White Salmon 12 Rb 74 above horse ranch 9720 Mill White Salmon White Salmon 12 Rb 131 above horse ranch 9720 Mill White Salmon White Salmon 12 Rb 181 above horse ranch 9720 Mill White Salmon White Salmon 12 Rb 181 above horse ranch 9720 Mill White Salmon White Salmon 12 Rb 181 above horse ranch 9720 Mill White Salmon White Salmon 12 Rb 181 above horse ranch 9720 Mill White Salmon White Salmon 12 Rb 182 above horse ranch 9720 Mill White Salmon White Salmon 12 Rb 181 above horse ranch 9720 Mill White Salmon White Salmon 12 Rb 181 above horse ranch 9720 Mill White Salmon White Salmon 12 Rb 181 above horse ranch 9720 Mill White Salmon White Salmon 12 Rb 181 above horse ranch 9720 Mill White Salmon White Salmon 12 Rb 181 above horse ranch 9720 Mill White Salmon White Salmon 12 Rb 183 above horse ranch 9720 Mill White Salmon White Salmon 12 Rb 183 above horse ranch 9720 Mill White Salmon White Salmon 12 Rb 183 above horse ranch 9720 Mill White Salmon White Salmon 12 Rb 183 above horse ranch 9720 Mill White Salmon White Salmon 12 Rb 185 above horse ranch 9720 Mill White Salmon White Salmon 12 Rb 185 above horse ranch 9720 Mill White Salmon White Salmon 12 Rb 185 above horse ranch 9720 Mill White Salmon White Salmon 12 Rb 185 above horse ranch 9720 Mill White Salmon White Salmon 18 Rb 68 above horse ranch 9720 Mill White Salmon White Salmon 18 Rb 68 above horse ranch 9721 Mill White Salmon White Salmon 18 Rb 68 above horse ranch 9	9/20	Mill	White Salmon	White Salmon	12	Rb	49	above horse ranch
920 Mill White Salmon White Salmon 12 Rb 74 above horse ranch 9720 Mill White Salmon White Salmon 12 Rb 74 above horse ranch 9720 Mill White Salmon White Salmon 12 Rb 74 above horse ranch 9720 Mill White Salmon White Salmon 12 Rb 131 above horse ranch 9720 Mill White Salmon White Salmon 12 Rb 181 above horse ranch 9720 Mill White Salmon White Salmon 12 Rb 181 above horse ranch 9720 Mill White Salmon White Salmon 12 Rb 181 above horse ranch 9720 Mill White Salmon White Salmon 12 Rb 181 above horse ranch 9720 Mill White Salmon White Salmon 12 Rb 182 above horse ranch 9720 Mill White Salmon White Salmon 12 Rb 181 above horse ranch 9720 Mill White Salmon White Salmon 12 Rb 181 above horse ranch 9720 Mill White Salmon White Salmon 12 Rb 181 above horse ranch 9720 Mill White Salmon White Salmon 12 Rb 181 above horse ranch 9720 Mill White Salmon White Salmon 12 Rb 181 above horse ranch 9720 Mill White Salmon White Salmon 12 Rb 183 above horse ranch 9720 Mill White Salmon White Salmon 12 Rb 183 above horse ranch 9720 Mill White Salmon White Salmon 12 Rb 183 above horse ranch 9720 Mill White Salmon White Salmon 12 Rb 183 above horse ranch 9720 Mill White Salmon White Salmon 12 Rb 185 above horse ranch 9720 Mill White Salmon White Salmon 12 Rb 185 above horse ranch 9720 Mill White Salmon White Salmon 12 Rb 185 above horse ranch 9720 Mill White Salmon White Salmon 12 Rb 185 above horse ranch 9720 Mill White Salmon White Salmon 18 Rb 68 above horse ranch 9720 Mill White Salmon White Salmon 18 Rb 68 above horse ranch 9721 Mill White Salmon White Salmon 18 Rb 68 above horse ranch 9	9/20	Mill	White Salmon	White Salmon	12	Rb	46	above horse ranch
920 Mill White Salmon White Salmon 12 Rb 74 above horse ranch 970 Mill White Salmon White Salmon 12 Rb 83 above horse ranch 9720 Mill White Salmon White Salmon 12 Rb 112 above horse ranch 9720 Mill White Salmon White Salmon 12 Rb 133 above horse ranch 9720 Mill White Salmon White Salmon 12 Rb 133 above horse ranch 9720 Mill White Salmon White Salmon 12 Rb 133 above horse ranch 9720 Mill White Salmon White Salmon 12 Rb 133 above horse ranch 9720 Mill White Salmon White Salmon 12 Rb 52 above horse ranch 9720 Mill White Salmon White Salmon 12 Rb 52 above horse ranch 9720 Mill White Salmon White Salmon 12 Rb 52 above horse ranch 9720 Mill White Salmon White Salmon 12 Rb 133 above horse ranch 9720 Mill White Salmon White Salmon 12 Rb 133 above horse ranch 9720 Mill White Salmon White Salmon 12 Rb 133 above horse ranch 9720 Mill White Salmon White Salmon 12 Rb 78 above horse ranch 9720 Mill White Salmon White Salmon 12 Rb 78 above horse ranch 9720 Mill White Salmon White Salmon 12 Rb 78 above horse ranch 9720 Mill White Salmon White Salmon 12 Rb 78 above horse ranch 9720 Mill White Salmon White Salmon 12 Rb 78 above horse ranch 9720 Mill White Salmon White Salmon 12 Rb 75 above horse ranch 9720 Mill White Salmon White Salmon 12 Rb 75 above horse ranch 9720 Mill White Salmon White Salmon 12 Rb 75 above horse ranch 9720 Mill White Salmon White Salmon 12 Rb 75 above horse ranch 9720 Mill White Salmon White Salmon 12 Rb 75 above horse ranch 9721 Unnamed #3 Cave White Salmon 18 Rb 62 above Morris place, sds property 9721 Unnamed #3 Cave White Salmon 8 Bk 62 above Morris place, sds p							137	
9/20 Mill White Salmon White Salmon 12 Rb 112 above horse ranch								
9/20 Mill White Salmon White Salmon 12 Rb 112 above horse ranch								
9/20 Mill White Salmon White Salmon 12 Rb 98 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 13 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 12 Rb 13 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 12 above horse ranch 9/20 Mill White Salmon White Salmon White Salmon 12 Rb 12 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 107 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 11 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 81 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 83 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 86 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 86 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 15 above horse ranch </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
9/20 Mill White Salmon White Salmon 12 Rb 133 above horse ranch								
9/20 Mill White Salmon White Salmon 12 Rb 112 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 52 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 82 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 107 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 107 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 183 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 83 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 83 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 86 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 153 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 153 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 153 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 153 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 153 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 153 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 153 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 153 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 153 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 153 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 153 above horse ranch 9/20 Mill White Salmon 8 Rb 62 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Rb 63 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Rb 63 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Rb 66 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Rb								
9/20 Mill White Salmon White Salmon 12 Rb 52 above horse ranch								
9/20 Mill White Salmon White Salmon 12 Rb 107 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 107 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 107 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 83 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 83 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 78 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 83 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 153 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 153 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 175 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 175 above horse ranch 9/20 Crofton Morrison White Salmon 5 above horse ranch 9/21 Unnamed #3 Cave White Salmon 8 Bk 62 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 62 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 63 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 63 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 66 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 66 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 66 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 66 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 66 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 66 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 66 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 66 above Morris place, sds property 9/21 Un								
9/20 Mill White Salmon White Salmon 12 Rb 107 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 119 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 83 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 78 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 78 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 153 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 153 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 175 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 175 above horse ranch 9/20 Mill White Salmon White Salmon 5 above horse ranch 9/21 Unnamed #3 Cave White Salmon 8 Rk 62 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Rk 62 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Rk 63 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Rk 63 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Rk 63 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Rk 63 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Rk 64 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Rk 66 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Rk 66 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Rk 66 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Rk 66 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Rk 60 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Rk 61 above Morris place, sds property 9/21 Unnamed #3 Cave Whi								
9/20 Mill White Salmon White Salmon 12 Rb 119 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 78 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 78 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 78 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 153 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 153 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 153 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 152 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 152 above horse ranch 9/20 Crofton Morrison White Salmon 8 Bk 62 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 62 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 63 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 63 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 66 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 66 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 66 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 66 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 60 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 60 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 60 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 60 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 60 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 61 above Morris place, sds property 9/21								
9/20 Mill White Salmon White Salmon 12 Rb 83 above horse ranch			White Salmon	White Salmon				
9/20 Mill			White Salmon	White Salmon			119	above horse ranch
9/20 Mill White Salmon White Salmon 12 Rb 86 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 153 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 175 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 152 above horse ranch 9/20 Crofton Morrison White Salmon 5 above Ary Strail, no fish 9/21 Unnamed #3 Cave White Salmon 8 Bk 62 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 68 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 66 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 66 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 66 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 66 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 66 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 66 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 66 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 66 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 60 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 60 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 60 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 60 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 60 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 60 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 61 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 61 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 61 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 61 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 61 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 61 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 61 above Morris place, sds property 9/2	9/20	Mill	White Salmon	White Salmon	12	Rb	83	above horse ranch
9/20 Mill White Salmon White Salmon 12 Rb 86 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 153 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 175 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 152 above horse ranch 9/20 Crofton Morrison White Salmon 5 above Ary Strail, no fish 9/21 Unnamed #3 Cave White Salmon 8 Bk 62 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 68 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 66 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 66 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 66 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 66 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 66 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 66 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 66 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 66 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 60 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 60 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 60 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 60 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 60 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 60 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 61 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 61 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 61 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 61 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 61 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 61 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 61 above Morris place, sds property 9/2	9/20	Mill	White Salmon	White Salmon	12	Rb	78	above horse ranch
9/20 Mill White Salmon White Salmon 12 Rb 153 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 175 above horse ranch 9/20 Mill White Salmon White Salmon 12 Rb 175 above horse ranch 9/20 Crofton Morrison White Salmon 5 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 62 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 63 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 63 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 63 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 66 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 66 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 66 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 66 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 60 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 60 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 60 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 60 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 60 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 60 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 61 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 61 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 61 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 61 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 61 above Morris place, sds prop	9/20	Mill	White Salmon	White Salmon			86	above horse ranch
9/20 Mill White Salmon White Salmon 12 Rb 175 above horse ranch 9/20 IVIII White Salmon White Salmon 12 Rb 152 above horse ranch 9/20 Crofton Morrison White Salmon 5 above 73 trail, no fish 9/21 Unnamed #3 Cave White Salmon 8 Bk 62 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 72 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 63 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 66 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 66 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 66 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 60 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 60 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk								
9/20 Mill White Salmon White Salmon 12 Rb 152 above horse ranch 9/20 Crofton Morrison White Salmon 5 above 73 trail, no fish 9/21 Unnamed #3 Cave White Salmon 8 Bk 62 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 63 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 63 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 63 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 66 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 66 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 66 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 60 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 60 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 60 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 60 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 60 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 60 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 60 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 61 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 61 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 61 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 61 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 61 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 61 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 61 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 61 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 61 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 167 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 169 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 169 a								
9/20 Crofton Morrison White Salmon 5 above 73 trail, no fish								
9/21 Unnamed #3 Cave White Salmon 8 Bk 62 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 72 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 68 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 63 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 66 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 66 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 46 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 60 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 60 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 60 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 60 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 68 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 60 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 60 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 61 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 61 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 61 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 61 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 61 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 61 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 67 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 167 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 169 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 167 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 167 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 160 above Morris place, sds property						110	102	
9/21 Unnamed #3 Cave White Salmon 8 Bk 72 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 68 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 63 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 63 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 56 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 56 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 60 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 60 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 60 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 60 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 60 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 61 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 61 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 61 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 61 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 61 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 60 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 60 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 61 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 61 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 169 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 169 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 160 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 160 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 160 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 160 above Morris place, sds property						B١٠	62	,
9/21 Unnamed #3 Cave White Salmon 8 Bk 68 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 63 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 66 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 56 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 46 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 60 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 60 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 68 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 68 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 60 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 61 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 61 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 61 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 61 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 61 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 60 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 61 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 167 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 167 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 167 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 167 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 167 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 167 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 167 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 167 above Morris place, sds property								
9/21 Unnamed #3 Cave White Salmon 8 Bk 63 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 66 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 56 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 46 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 46 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 56 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 56 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 68 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 60 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 60 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 61 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 61 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 60 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 61 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 61 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 61 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 64 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 64 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 167 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 169 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 169 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 169 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 169 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 169 above Morris place, sds property								
9/21 Unnamed #3 Cave White Salmon 8 Bk 66 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 56 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 46 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 60 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 60 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 60 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 60 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 60 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 61 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 61 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 61 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 61 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 41 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 54 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 167 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 169 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 169 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 167 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 167 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 167 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 160 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 167 above Morris place, sds property								
9/21 Unnamed #3 Cave White Salmon 8 Bk 56 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 46 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 60 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 60 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 68 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 60 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 61 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 61 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 60 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 61 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 60 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 61 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 54 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 54 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 167 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 169 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 169 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 167 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 169 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 167 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 169 above Morris place, sds property								
9/21 Unnamed #3 Cave White Salmon 8 Bk 46 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 60 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 56 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 68 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 60 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 60 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 61 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 61 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 60 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 41 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 41 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 54 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 167 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 169 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 169 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 167 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 169 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 167 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 160 above Morris place, sds property			_					
9/21 Unnamed #3 Cave White Salmon 8 Bk 60 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 56 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 68 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 60 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 75 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 61 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 61 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 60 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 41 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 54 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 167 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 169 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 169 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 169 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 169 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 169 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 169 above Morris place, sds property								
9/21 Unnamed #3 Cave White Salmon 8 Bk 56 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 68 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 60 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 75 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 61 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 60 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 60 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 41 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 54 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 167 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 169 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 169 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 169 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 169 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 169 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 169 above Morris place, sds property	9/21	Unnamed #3	Cave					
9/21 Unnamed #3 Cave White Salmon 8 Bk 68 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 60 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 75 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 61 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 60 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 41 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 41 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 54 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 167 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 169 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 169 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 169 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 169 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 169 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 169 above Morris place, sds property			Cave				60	above Morris place, sds property
9/21 Unnamed #3 Cave White Salmon 8 Bk 68 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 60 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 75 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 61 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 60 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 41 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 41 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 54 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 167 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 169 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 169 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 169 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 169 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 169 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 169 above Morris place, sds property	9/21	Unnamed #3	Cave	White Salmon	8	Bk		
9/21 Unnamed #3 Cave White Salmon 8 Bk 60 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 75 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 61 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 60 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 41 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 54 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 54 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 167 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 169 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 169 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 167 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 167 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 167 above Morris place, sds property			_					
9/21 Unnamed #3 Cave White Salmon 8 Bk 75 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 61 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 60 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 41 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 54 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 167 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 169 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 169 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 169 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 167 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 167 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 160 above Morris place, sds property								
9/21 Unnamed #3 Cave White Salmon 8 Bk 61 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 60 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 41 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 54 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 167 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 169 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 169 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 167 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 167 above Morris place, sds property 9/21 Unnamed #3 Cave White Salmon 8 Bk 160 above Morris place, sds property								
9/21Unnamed #3CaveWhite Salmon8Bk60above Morris place, sds property9/21Unnamed #3CaveWhite Salmon8Bk41above Morris place, sds property9/21Unnamed #3CaveWhite Salmon8Bk54above Morris place, sds property9/21Unnamed #3CaveWhite Salmon8Bk167above Morris place, sds property9/21Unnamed #3CaveWhite Salmon8Bk169above Morris place, sds property9/21Unnamed #3CaveWhite Salmon8Bk167above Morris place, sds property9/21Unnamed #3CaveWhite Salmon8Bk160above Morris place, sds property			_					
9/21 Unnamed #3CaveWhite Salmon8 Bk41 above Morris place, sds property9/21 Unnamed #3CaveWhite Salmon8 Bk54 above Morris place, sds property9/21 Unnamed #3CaveWhite Salmon8 Bk167 above Morris place, sds property9/21 Unnamed #3CaveWhite Salmon8 Bk169 above Morris place, sds property9/21 Unnamed #3CaveWhite Salmon8 Bk167 above Morris place, sds property9/21 Unnamed #3CaveWhite Salmon8 Bk167 above Morris place, sds property9/21 Unnamed #3CaveWhite Salmon8 Bk160 above Morris place, sds property								
9/21 Unnamed #3CaveWhite Salmon8 Bk54 above Morris place, sds property9/21 Unnamed #3CaveWhite Salmon8 Bk167 above Morris place, sds property9/21 Unnamed #3CaveWhite Salmon8 Bk169 above Morris place, sds property9/21 Unnamed #3CaveWhite Salmon8 Bk167 above Morris place, sds property9/21 Unnamed #3CaveWhite Salmon8 Bk160 above Morris place, sds property9/21 Unnamed #3CaveWhite Salmon8 Bk160 above Morris place, sds property								
9/21 Unnamed #3CaveWhite Salmon8 Bk167 above Morris place, sds property9/21 Unnamed #3CaveWhite Salmon8 Bk169 above Morris place, sds property9/21 Unnamed #3CaveWhite Salmon8 Bk167 above Morris place, sds property9/21 Unnamed #3CaveWhite Salmon8 Bk160 above Morris place, sds property								
9/21Unnamed #3CaveWhite Salmon8Bk169above Morris place, sds property9/21Unnamed #3CaveWhite Salmon8Bk167above Morris place, sds property9/21Unnamed #3CaveWhite Salmon8Bk160above Morris place, sds property								
9/21Unnamed #3CaveWhite Salmon8Bk167above Morris place, sds property9/21Unnamed #3CaveWhite Salmon8Bk160above Morris place, sds property								
9/21 Unnamed #3 Cave White Salmon 8 Bk 160 above Morris place, sds property			_					
9/21 Unnamed #3 Cave White Salmon 8 Bk 178 above Morris place, sds property	9/21	Unnamed #3	Cave	White Salmon	8	Bk	160	above Morris place, sds property
	9/21	Unnamed #3	Cave	White Salmon	8	Bk	178	above Morris place, sds property

Appendix C. Electroshock data from streams in the Klickitat and White Salmon river basins, 2001.

7/30	Little Muddy	W. Fork Klickitat	Klickitat	8.5	Bu	172	
8/1	Elkhorn	Klickitat	Klickitat	11.2			above road, 13 rb's < 150, 1 rb > 150, 1 bk > 150, 1 unid'd fry
	Unnamed # 4	Klickitat	Klickitat	8.3	Rh	122	
	Unnamed # 4	Klickitat	Klickitat	8.3			north side of upper Klickitat
	Unnamed # 4	Klickitat	Klickitat	8.3			north side of upper Klickitat
	Unnamed # 4	Klickitat	Klickitat		Rb		north side of upper Klickitat
	Unnamed # 4	Klickitat	Klickitat	8.3			north side of upper Klickitat
	Unnamed # 4	Klickitat	Klickitat				north side of upper Klickitat
8/21	Unnamed # 4	Klickitat	Klickitat			128	north side of upper Klickitat
8/21	Unnamed # 4	Klickitat	Klickitat	8.3	Rb	54	north side of upper Klickitat
8/21	Unnamed # 4	Klickitat	Klickitat	8.3	Rb	55	north side of upper Klickitat
8/21	Unnamed # 4	Klickitat	Klickitat	8.3	Rb	112	north side of upper Klickitat
	Unnamed # 4	Klickitat	Klickitat	8.3			north side of upper Klickitat
	Klickitat	Columbia	Klickitat		Rb		below log barrier
	Klickitat	Columbia	Klickitat	9.5			below log barrier
			Klickitat				
	Klickitat	Columbia					below log barrier
	Klickitat	Columbia	Klickitat		Rb		below log barrier
	Klickitat	Columbia	Klickitat	9.5			below log barrier
	Klickitat	Columbia	Klickitat	9.5			below log barrier
8/21	Klickitat	Columbia	Klickitat	9.5	Rb	178	below log barrier
8/21	Klickitat	Columbia	Klickitat	9.5	Rb	158	below log barrier
8/21	Klickitat	Columbia	Klickitat	9.5	Rb	177	above log barrier
	Klickitat	Columbia	Klickitat				above log barrier
	Pearl	Klickitat	Klickitat	9.5			none/upstream of upper road
	Unnamed # 1	Diamond Fork	Klickitat	8.5	Рh	52	trib # 4, east side
							,
	Unnamed # 1	Diamond Fork	Klickitat		Rb		trib # 4, east side
	Unnamed # 1	Diamond Fork	Klickitat	8.5			trib # 4, east side
	Unnamed # 1	Diamond Fork	Klickitat	8.5			trib # 4, east side
	Unnamed # 1	Diamond Fork	Klickitat	8.5	Rb	115	trib # 4, east side
9/10	Unnamed # 1	Diamond Fork	Klickitat	8.5	Rb	113	trib # 4, east side
9/10	Unnamed # 1	Diamond Fork	Klickitat	8.5	Rb	128	trib # 4, east side
	Unnamed # 1	Diamond Fork	Klickitat	8.5			trib # 4, east side
	Unnamed # 1	Diamond Fork	Klickitat	8.5			trib # 4, east side
	Unnamed # 1	Diamond Fork	Klickitat				trib # 4, east side
	Unnamed # 1	Diamond Fork	Klickitat	8.5			trib # 4, east side
	Unnamed # 1	Diamond Fork	Klickitat	8.5			trib # 4, east side
	Unnamed # 1	Diamond Fork	Klickitat	8.5			trib # 4, east side
	Unnamed # 1	Diamond Fork	Klickitat	8.5			trib # 4, east side
9/10	Unnamed # 1	Diamond Fork	Klickitat	8.5	Rb	71	trib # 4, east side
9/10	Unnamed # 1	Diamond Fork	Klickitat	8.5	Rb	117	trib # 4, east side
9/10	Unnamed # 1	Diamond Fork	Klickitat	8.5	Rb	97	trib # 4, east side
9/10	Unnamed # 1	Diamond Fork	Klickitat		Rb	121	trib # 4, east side
	Unnamed # 1	Diamond Fork	Klickitat		Rb		trib # 4, east side
	Unnamed # 1	Diamond Fork	Klickitat				trib # 4, east side
	Unnamed # 1		Klickitat				trib # 4. east side
		Diamond Fork					
	Unnamed # 1	Diamond Fork	Klickitat	8.5			trib # 4, east side
	Unnamed # 1	Diamond Fork	Klickitat		Rb		trib # 4, east side
	Unnamed # 1	Diamond Fork	Klickitat	8.5			trib # 4, east side
	Unnamed # 1	Diamond Fork	Klickitat	8.5			trib # 4, east side
9/10	Unnamed # 2	Diamond Fork	Klickitat	10.5	Rb	109	trib # 3, east side
9/10	Unnamed # 2	Diamond Fork	Klickitat	10.5	Rb	106	trib # 3, east side
	Unnamed # 2	Diamond Fork	Klickitat	10.5			trib # 3, east side
	Unnamed # 2	Diamond Fork	Klickitat	10.5			trib # 3, east side
	Unnamed # 2	Diamond Fork	Klickitat	10.5			trib # 3, east side
	Unnamed # 2	Diamond Fork	Klickitat	10.5			trib # 3, east side
							,
	Unnamed # 2	Diamond Fork	Klickitat	10.5			trib # 3, east side
	Unnamed # 2	Diamond Fork	Klickitat	10.5			trib # 3, east side
	Unnamed # 2	Diamond Fork	Klickitat	10.5			trib # 3, east side
9/10	Unnamed # 2	Diamond Fork	Klickitat	10.5	Rb	77	trib # 3, east side
9/10	Unnamed # 2	Diamond Fork	Klickitat	10.5	Rb	36	trib # 3, east side
	Unnamed # 2	Diamond Fork	Klickitat	10.5			trib # 3, east side
	Unnamed # 2	Diamond Fork	Klickitat	10.5			trib # 3, east side
	Unnamed # 2	Diamond Fork	Klickitat	10.5			trib # 3, east side
		Diamond Fork	Klickitat	10.5			trib # 3, east side
	Unnamed # 2						·
	Unnamed # 2	Diamond Fork	Klickitat	10.5			trib # 3, east side
	Unnamed # 2	Diamond Fork	Klickitat	10.5			trib # 3, east side
	Unnamed # 2	Diamond Fork	Klickitat	10.5			trib # 3, east side
9/10	Unnamed # 2	Diamond Fork	Klickitat	10.5	Rb	81	trib # 3, east side
9/10	Unnamed # 2	Diamond Fork	Klickitat	10.5	Rb	104	trib # 3, east side

Appendix C. Electroshock data from streams in the Klickitat and White Salmon river basins, 2001.

9/10 Unnamed # 2	Diamond Fork	Klickitat	10.5	Rb	116	trib # 3, east side
9/10 Unnamed # 2	Diamond Fork	Klickitat	10.5			trib # 3, east side
9/10 Unnamed # 2	Diamond Fork	Klickitat	10.5			trib # 3, east side
9/10 Unnamed # 2	Diamond Fork	Klickitat	10.5			trib # 3, east side
			10.5			
9/10 Unnamed # 2	Diamond Fork	Klickitat				trib # 3, east side
9/10 Unnamed # 2	Diamond Fork	Klickitat	10.5			trib # 3, east side
9/10 Unnamed # 2	Diamond Fork	Klickitat	10.5	Rb		trib # 3, east side
9/10 Unnamed # 2	Diamond Fork	Klickitat	10.5	Rb	133	trib # 3, east side
9/10 Unnamed # 2	Diamond Fork	Klickitat	10.5	Rb	70	trib # 3, east side
9/10 Unnamed # 2	Diamond Fork	Klickitat	10.5	Rb	107	trib # 3, east side
9/10 Unnamed # 2	Diamond Fork	Klickitat	10.5			trib # 3, east side
9/10 Unnamed # 2	Diamond Fork	Klickitat	10.5			trib # 3, east side
9/10 Unnamed # 2	Diamond Fork	Klickitat	10.5			trib # 3, east side
9/10 Unnamed # 2	Diamond Fork	Klickitat	10.5			trib # 3, east side
9/10 Unnamed # 2	Diamond Fork	Klickitat	10.5			trib # 3, east side
9/10 Unnamed # 2	Diamond Fork	Klickitat	10.5		108	trib # 3, east side
9/10 Unnamed # 2	Diamond Fork	Klickitat	10.5	Rb	110	trib # 3, east side
9/10 Unnamed # 2	Diamond Fork	Klickitat	10.5	Rb	104	trib # 3, east side
9/10 Unnamed # 2	Diamond Fork	Klickitat	10.5	Rb	118	trib # 3, east side
9/10 Unnamed # 2	Diamond Fork	Klickitat	10.5	Rb		trib # 3, east side
9/10 Unnamed # 2	Diamond Fork	Klickitat	10.5			trib # 3, east side
9/10 Unnamed # 2	Diamond Fork	Klickitat	10.5			trib # 3, east side
9/10 Unnamed # 2						
	Diamond Fork	Klickitat	10.5			trib # 3, east side
9/10 Unnamed # 2	Diamond Fork	Klickitat	10.5			trib # 3, east side
9/10 Unnamed # 2	Diamond Fork	Klickitat	10.5			trib # 3, east side
9/10 Unnamed # 2	Diamond Fork	Klickitat	10.5	Rb	72	trib # 3, east side
9/10 Unnamed # 2	Diamond Fork	Klickitat	10.5	Rb	75	trib # 3, east side
9/10 Unnamed # 2	Diamond Fork	Klickitat	10.5	Rb	67	trib # 3, east side
9/10 Unnamed # 2	Diamond Fork	Klickitat	10.5			trib # 3, east side
9/10 Unnamed # 2	Diamond Fork	Klickitat	10.5			trib # 3, east side
9/10 Unnamed # 2	Diamond Fork	Klickitat	10.5			trib # 3, east side
9/10 Unnamed # 2	Diamond Fork	Klickitat	10.5			trib # 3, east side
9/10 Unnamed # 2	Diamond Fork	Klickitat	10.5			trib # 3, east side
9/10 Unnamed # 2	Diamond Fork	Klickitat	10.5	Rb	156	trib # 3, east side
9/10 Unnamed # 2	Diamond Fork	Klickitat	10.5	Rb	181	trib # 3, east side
9/10 Unnamed # 2	Diamond Fork	Klickitat	10.5	Rb	158	trib # 3, east side
9/11 Unnamed #3	Diamond Fork	Klickitat	10	Rb		trib # 2, east side
9/11 Unnamed #3	Diamond Fork	Klickitat		Rb		trib # 2, east side
9/11 Unnamed #3	Diamond Fork	Klickitat		Rb		trib # 2, east side
	Diamond Fork			Rb		trib # 2, east side
9/11 Unnamed #3		Klickitat				
9/11 Unnamed #3	Diamond Fork	Klickitat		Rb		trib # 2, east side
9/11 Unnamed #3	Diamond Fork	Klickitat		Rb		trib # 2, east side
9/11 Unnamed #3	Diamond Fork	Klickitat	10	Rb	60	trib # 2, east side
9/11 Unnamed #3	Diamond Fork	Klickitat	10	Rb	120	trib # 2, east side
9/11 Unnamed #3	Diamond Fork	Klickitat	10	Rb	106	trib # 2, east side
9/11 Unnamed #3	Diamond Fork	Klickitat	10	Rb	58	trib # 2, east side
9/11 Unnamed #3	Diamond Fork	Klickitat		Rb		trib # 2, east side
9/11 Unnamed #3	Diamond Fork	Klickitat		Rb		trib # 2, east side
	Diamond Fork					trib # 2, east side
9/11 Unnamed #3		Klickitat		Rb		,
9/11 Unnamed #3	Diamond Fork	Klickitat		Rb		trib # 2, east side
9/11 Unnamed #3	Diamond Fork	Klickitat		Rb		trib # 2, east side
9/11 Unnamed #3	Diamond Fork	Klickitat		Rb		trib # 2, east side
9/11 Unnamed #3	Diamond Fork	Klickitat		Rb	112	trib # 2, east side
9/11 Unnamed #3	Diamond Fork	Klickitat	10	Rb	99	trib # 2, east side
9/11 Unnamed #3	Diamond Fork	Klickitat		Rb		trib # 2, east side
9/11 Unnamed #3	Diamond Fork	Klickitat		Rb		trib # 2, east side
9/11 Unnamed #3	Diamond Fork	Klickitat		Rb		trib # 2, east side
9/11 Unnamed #3	Diamond Fork	Klickitat		Rb		trib # 2, east side
9/11 Unnamed #3	Diamond Fork	Klickitat		Rb		trib # 2, east side
9/11 Unnamed #3	Diamond Fork	Klickitat		Rb		trib # 2, east side
9/11 Unnamed #3	Diamond Fork	Klickitat	10	Rb	65	trib # 2, east side
9/11 Unnamed #3	Diamond Fork	Klickitat	10	Rb	214	trib # 2, east side
9/11 Unnamed #3	Diamond Fork	Klickitat		Rb		trib # 2, east side
9/11 Unnamed #3	Diamond Fork	Klickitat		Rb		trib # 2, east side
9/12 Unnamed #4	Diamond Fork	Klickitat	9.5		. 50	none; trib #2 west side
9/12 Unnamed #5	Diamond Fork	Klickitat	9			none; trib #3 west side
9/18 Unnamed #6	Diamond Fork	Klickitat	6.8	<u> </u>		none; trib #1 east side
9/18 Unnamed #7	Diamond Fork	Klickitat	5.2			trib #5 east side
9/18 Unnamed #7	Diamond Fork	Klickitat	5.2	Bk	109	trib #5 east side

Appendix C. Electroshock data from streams in the Klickitat and White Salmon river basins, 2001.

9/18 Unnamed #8	Diamond Fork	Klickitat	6.4			none; trib #6 east side
9/18 Unnamed #9	Diamond Fork	Klickitat	6.7			none; trib A west side
9/18 Unnamed #10	Diamond Fork	Klickitat		Rb	1/18	trib. B, below confluence of north and south fork
9/18 Unnamed #10	Diamond Fork	Klickitat				trib. B, below confluence of north and south fork
9/18 Unnamed #10	Diamond Fork	Klickitat	7.2			trib. B, below confluence of north and south fork
9/18 Unnamed #10	Diamond Fork	Klickitat	7.2			trib. B, below confluence of north and south fork
9/18 Unnamed #10	Diamond Fork	Klickitat	7.2	Rb	143	trib. B, below confluence of north and south fork
9/18 Unnamed #10	Diamond Fork	Klickitat	7.2	Bk	190	trib. B, below confluence of north and south fork
9/18 Unnamed #10	Diamond Fork	Klickitat	7.2	Bk	170	trib. B, below confluence of north and south fork
9/18 Unnamed #10	Diamond Fork	Klickitat	7.2	Bk	90	trib. B, below confluence of north and south fork
9/18 Unnamed #10	Diamond Fork	Klickitat	7.2			trib. B, below confluence of north and south fork
9/18 Unnamed #10	Diamond Fork	Klickitat	7.2			trib. B, below confluence of north and south fork
9/18 Unnamed #10	Diamond Fork	Klickitat	7.2			trib. B, below confluence of north and south fork
9/18 Unnamed #10	Diamond Fork	Klickitat	7.2			trib. B, below confluence of north and south fork
9/18 Unnamed #10	Diamond Fork	Klickitat	7.2		51	trib. B, below confluence of north and south fork
9/18 Unnamed #10	Diamond Fork	Klickitat	7.2	Bk	54	trib. B, below confluence of north and south fork
9/18 Unnamed #10	Diamond Fork	Klickitat	7.2	Bk	30	trib. B, below confluence of north and south fork
9/18 Unnamed #10	Diamond Fork	Klickitat	7.2	Bk	49	trib. B, below confluence of north and south fork
9/18 Unnamed #10	Diamond Fork	Klickitat	7.2			trib. B, below confluence of north and south fork
9/18 Unnamed #10	Diamond Fork	Klickitat	7.2			trib. B, below confluence of north and south fork
9/18 Unnamed #10	Diamond Fork	Klickitat	7.2			trib. B, below confluence of north and south fork
9/18 Unnamed #10	Diamond Fork	Klickitat	7.2			trib. B, below confluence of north and south fork
9/18 Unnamed #10	Diamond Fork	Klickitat	7.2		46	trib. B, below confluence of north and south fork
9/18 Unnamed #10	Diamond Fork	Klickitat	7.2	Bk	42	trib. B, below confluence of north and south fork
9/18 Unnamed #10	Diamond Fork	Klickitat	7.2	Bk	32	trib. B, below confluence of north and south fork
9/18 Unnamed #10	Diamond Fork	Klickitat	7.2	Bk	108	trib. B, below confluence of north and south fork
9/18 Unnamed #10	Diamond Fork	Klickitat	7.2			trib. B, below confluence of north and south fork
9/18 Unnamed #10	Diamond Fork	Klickitat	7.2			trib. B, below confluence of north and south fork
9/18 Unnamed #10	Diamond Fork	Klickitat	7.2			trib. B, below confluence of north and south fork
9/18 Unnamed #10	Diamond Fork	Klickitat	7.2			trib. B, below confluence of north and south fork
9/18 Unnamed #10	Diamond Fork	Klickitat	7.2	Bk	47	trib. B, below confluence of north and south fork
9/18 Unnamed #10	Diamond Fork	Klickitat	7.2	Bk	53	trib. B, below confluence of north and south fork
9/18 Unnamed #10	Diamond Fork	Klickitat	7.2	Bk	45	trib. B, below confluence of north and south fork
9/18 Unnamed #10	Diamond Fork	Klickitat	7.2	Bk	48	trib. B, below confluence of north and south fork
9/18 Unnamed #10	Diamond Fork	Klickitat	7.2			trib. B, below confluence of north and south fork
9/18 Unnamed #10	Diamond Fork	Klickitat	7.2			trib. B, below confluence of north and south fork
9/18 Unnamed #10	Diamond Fork	Klickitat	7.2			trib. B, below confluence of north and south fork
9/18 Unnamed #10	Diamond Fork	Klickitat	7.2			trib. B, below confluence of north and south fork
9/18 Unnamed #11	Diamond Fork	Klickitat	6.5		49	lower site, south fork of trib. B
9/18 Unnamed #11	Diamond Fork	Klickitat	6.5		51	lower site, south fork of trib. B
9/18 Unnamed #11	Diamond Fork	Klickitat	6.5	Bk		lower site, south fork of trib. B
9/18 Unnamed #11	Diamond Fork	Klickitat	6.5	Bk	50	lower site, south fork of trib. B
9/18 Unnamed #11	Diamond Fork	Klickitat	6.5	Bk		lower site, south fork of trib. B
9/18 Unnamed #11	Diamond Fork	Klickitat	6.5	Bk	45	lower site, south fork of trib. B
9/18 Unnamed #11	Diamond Fork	Klickitat		Bk		lower site, south fork of trib. B
		Klickitat	6.5			,
9/18 Unnamed #11	Diamond Fork					lower site, south fork of trib. B
9/18 Unnamed #11	Diamond Fork	Klickitat	6.5		54	,
9/18 Unnamed #11	Diamond Fork	Klickitat	6.5		47	lower site, south fork of trib. B
9/18 Unnamed #11	Diamond Fork	Klickitat	6.5		175	lower site, south fork of trib. B
9/18 Unnamed #11	Diamond Fork	Klickitat	6.5	Bk	51	lower site, south fork of trib. B
9/18 Unnamed #11	Diamond Fork	Klickitat	6.5	Bk	54	lower site, south fork of trib. B
9/18 Unnamed #11	Diamond Fork	Klickitat	6.5			lower site, south fork of trib. B
9/18 Unnamed #11	Diamond Fork	Klickitat	6.5			lower site, south fork of trib. B
9/18 Unnamed #11	Diamond Fork	Klickitat	6.5		42	
						,
9/18 Unnamed #11	Diamond Fork	Klickitat	6.5			lower site, south fork of trib. B
9/18 Unnamed #11	Diamond Fork	Klickitat	6.5			lower site, south fork of trib. B
9/18 Unnamed #11	Diamond Fork	Klickitat	6.5		87	lower site, south fork of trib. B
9/18 Unnamed #11	Diamond Fork	Klickitat	6.5		36	lower site, south fork of trib. B
9/18 Unnamed #11	Diamond Fork	Klickitat	6.5	Bk	37	lower site, south fork of trib. B
9/18 Unnamed #11	Diamond Fork	Klickitat	6.5		150	,
9/18 Unnamed #11	Diamond Fork	Klickitat	6.5			lower site, south fork of trib. B
9/18 Unnamed #11	Diamond Fork	Klickitat	6.5		53	
9/18 Unnamed #11	Diamond Fork	Klickitat	6.5			lower site, south fork of trib. B
9/18 Unnamed #11	Diamond Fork	Klickitat	6.5		48	
9/18 Unnamed #11	Diamond Fork	Klickitat	6.5		45	lower site, south fork of trib. B
9/18 Unnamed #11	Diamond Fork	Klickitat	6.5	Bk	48	lower site, south fork of trib. B
9/18 Unnamed #11	Diamond Fork	Klickitat	6.5	Bk	51	lower site, south fork of trib. B
9/18 Unnamed #11	Diamond Fork	Klickitat	6.5		28	lower site, south fork of trib. B
9/18 Unnamed #11	Diamond Fork	Klickitat	6.5			lower site, south fork of trib. B
J/ 10 Omiamou #11	Diamona Lon	i Montat	5.5	יכ	7	Tower one, coddition or tilb. D

Appendix C. Electroshock data from streams in the Klickitat and White Salmon river basins, 2001.

9/18	Unnamed #11	Diamond Fork	Klickitat	6.5	Bk	44	lower site, south fork of trib. B
9/19	Unnamed #12	Diamond Fork	Klickitat		Bk		upper site, south fork of trib. B
	Unnamed #12	Diamond Fork	Klickitat		Bk		upper site, south fork of trib. B
9/19	Unnamed #12	Diamond Fork	Klickitat				upper site, south fork of trib. B
9/19	Unnamed #12	Diamond Fork	Klickitat	5	Bk	128	upper site, south fork of trib. B
9/19	Unnamed #12	Diamond Fork	Klickitat	5	Bk	111	upper site, south fork of trib. B
	Unnamed #12	Diamond Fork	Klickitat	5			upper site, south fork of trib. B
	Unnamed #12	Diamond Fork	Klickitat				upper site, south fork of trib. B
9/19	Unnamed #12	Diamond Fork	Klickitat	5	Bk	74	upper site, south fork of trib. B
9/19	Unnamed #12	Diamond Fork	Klickitat	5	Bk	56	upper site, south fork of trib. B
	Unnamed #13	Diamond Fork	Klickitat				north fork of trib. B
-							
9/19	Unnamed #13	Diamond Fork	Klickitat	6.8			north fork of trib. B
9/19	Unnamed #13	Diamond Fork	Klickitat	6.8	Bk	43	north fork of trib. B
9/19	Unnamed #13	Diamond Fork	Klickitat	6.8	Bk	46	north fork of trib. B
	Unnamed #13	Diamond Fork	Klickitat	6.8	_		north fork of trib. B
	Unnamed #13	Diamond Fork	Klickitat				north fork of trib. B
9/19	Unnamed #13	Diamond Fork	Klickitat	6.8	Bk	45	north fork of trib. B
9/19	Unnamed #13	Diamond Fork	Klickitat	6.8	Bk	46	north fork of trib. B
	Unnamed #13		Klickitat		_		north fork of trib. B
		Diamond Fork		6.8			
	Unnamed #13	Diamond Fork	Klickitat	6.8		47	north fork of trib. B
9/19	Unnamed #13	Diamond Fork	Klickitat	6.8	Bk	42	north fork of trib. B
9/19	Unnamed #13	Diamond Fork	Klickitat	6.8		40	north fork of trib. B
	Unnamed #13	Diamond Fork	Klickitat				north fork of trib. B
	Unnamed #13	Diamond Fork	Klickitat	6.8			north fork of trib. B
9/19	Unnamed #13	Diamond Fork	Klickitat	6.8	Bk	76	north fork of trib. B
	Unnamed #13	Diamond Fork	Klickitat	6.8			north fork of trib. B
	Unnamed #13	Diamond Fork	Klickitat	6.8			north fork of trib. B
9/19	Unnamed #13	Diamond Fork	Klickitat	6.8	Bk	40	north fork of trib. B
9/19	Unnamed #13	Diamond Fork	Klickitat	6.8	Bk	38	north fork of trib. B
	Unnamed #13	Diamond Fork	Klickitat	6.8			north fork of trib. B
	Unnamed #13	Diamond Fork	Klickitat	6.8		41	
9/19	Unnamed #13	Diamond Fork	Klickitat	6.8	Bk	123	north fork of trib. B
9/19	Unnamed #13	Diamond Fork	Klickitat	6.8	Bk	84	north fork of trib. B
	Unnamed #13	Diamond Fork	Klickitat	6.8			north fork of trib. B
9/19	Unnamed #13	Diamond Fork	Klickitat	6.8	Bk	130	north fork of trib. B
9/19	Unnamed #13	Diamond Fork	Klickitat	6.8	Bk	78	north fork of trib. B
9/19	Unnamed #13	Diamond Fork	Klickitat	6.8	Bk	45	north fork of trib. B
-	Unnamed #13	Diamond Fork	Klickitat	6.8			north fork of trib. B
9/19	Unnamed #13	Diamond Fork	Klickitat	6.8	BK	35	north fork of trib. B
9/19	Unnamed #13	Diamond Fork	Klickitat	6.8	Bk	47	north fork of trib. B
9/19	Unnamed #13	Diamond Fork	Klickitat	6.8	Bk	44	north fork of trib. B
	Unnamed #13			6.8			north fork of trib. B
-		Diamond Fork	Klickitat				
9/19	Unnamed #13	Diamond Fork	Klickitat	6.8	Bk	133	north fork of trib. B
10/23	Unnamed #1	White Salmon	White Salmon	2.8	Rb	112	1st creek on 101 rd
	Unnamed #1	White Salmon	White Salmon		Rb		1st creek on 101 rd
	Unnamed #1		White Salmon	2.8			
		White Salmon				88	
	Unnamed #1	White Salmon	White Salmon	2.8		160	1st creek on 101 rd
10/23	Unnamed #1	White Salmon	White Salmon	2.8	Rb	189	1st creek on 101 rd
	Unnamed #1	White Salmon	White Salmon	2.8		178	
	Unnamed #1	White Salmon	White Salmon	2.8		165	
	Unnamed #1	White Salmon	White Salmon	2.8		151	
10/23	Unnamed #3	White Salmon	White Salmon	2.8	Rb	64	3rd creek on 101 rd
10/23	Unnamed #3	White Salmon	White Salmon	2.8		112	3rd creek on 101 rd
	Unnamed #3	White Salmon	White Salmon	2.8			3rd creek on 101 rd
	Unnamed #3	White Salmon	White Salmon	2.8			3rd creek on 101 rd
10/23	Unnamed #3	White Salmon	White Salmon	2.8		123	3rd creek on 101 rd
10/23	Unnamed #3	White Salmon	White Salmon	2.8		131	3rd creek on 101 rd
	Unnamed #3	White Salmon	White Salmon	2.8			3rd creek on 101 rd
	Unnamed #3	White Salmon	White Salmon	2.8		92	3rd creek on 101 rd
10/23	Unnamed #5	White Salmon	White Salmon	2.8	Rb	131	above bridge
	Unnamed #5	White Salmon	White Salmon	2.8			below bridge
	Unnamed #5	White Salmon	White Salmon	2.8			below bridge
	Unnamed #2	White Salmon	White Salmon	3.3			2nd creek on 101 rd
10/24	Unnamed #2	White Salmon	White Salmon	3.3	Rb	94	2nd creek on 101 rd
10/24	Unnamed #2	White Salmon	White Salmon	3.3	Rh	126	2nd creek on 101 rd
	Unnamed #2	White Salmon	White Salmon	3.3			2nd creek on 101 rd
	Unnamed #2	White Salmon	White Salmon	3.3			2nd creek on 101 rd
10/24	Unnamed #2	White Salmon	White Salmon	3.3	Rb	83	2nd creek on 101 rd
	Unnamed #2	White Salmon	White Salmon	3.3		87	2nd creek on 101 rd
10/24							

Appendix C. Electroshock data from streams in the Klickitat and White Salmon river basins, 2001.

10/24	Unnamed #2	White Salmon	White Salmon	3.3	Rb	133	2nd creek on 101 rd
	Unnamed #2	White Salmon	White Salmon	3.3			2nd creek on 101 rd
	Unnamed #2	White Salmon	White Salmon		Rb		2nd creek on 101 rd
	Unnamed #2	White Salmon	White Salmon		Rb		2nd creek on 101 rd
	Unnamed #2	White Salmon	White Salmon	3.3			2nd creek on 101 rd
	Unnamed #2	White Salmon	White Salmon	3.3			2nd creek on 101 rd
10/24	Unnamed #2	White Salmon	White Salmon	3.3	Rb	82	2nd creek on 101 rd
10/24	Unnamed #2	White Salmon	White Salmon	3.3	Rb	102	2nd creek on 101 rd
10/24	Unnamed #2	White Salmon	White Salmon	3.3	Rb	84	2nd creek on 101 rd
10/24	Unnamed #2	White Salmon	White Salmon	3.3	Rb	82	2nd creek on 101 rd
	Unnamed #4	White Salmon	White Salmon		Rb		4th creek on 101 rd
	Unnamed #4	White Salmon	White Salmon		Rb		4th creek on 101 rd
	Unnamed	White Salmon	White Salmon		Rb	176	2nd creek past end of 101 rd
	Elmer Cyn.	White Salmon	White Salmon	7.1			Small creek off Trout Lake to Glenwood rd
9/25	Two Lakes	Two Lakes	Klickitat	9	Rb	175	Main creek out of Two Lakes (above falls)
9/25	Two Lakes	Two Lakes	Klickitat	9	Rb	171	Main creek out of Two Lakes (above falls)
9/25	Two Lakes	Two Lakes	Klickitat	0	Rb	94	Main creek out of Two Lakes (above falls)
9/25	Two Lakes	Two Lakes	Klickitat	9	Rb	110	Main creek out of Two Lakes (above falls)
	Two Lakes	Two Lakes	Klickitat		Rb		Main creek out of Two Lakes (above falls)
	Two Lakes	Two Lakes	Klickitat		Rb		Main creek out of Two Lakes (above falls)
	Two Lakes	Two Lakes	Klickitat		Rb		Main creek out of Two Lakes (above falls)
	Two Lakes	Two Lakes	Klickitat		Rb		Main creek out of Two Lakes (above falls)
9/25	Two Lakes	Two Lakes	Klickitat		_	56	Main creek out of Two Lakes (above falls)
9/25	Two Lakes	Two Lakes	Klickitat	9	Rb	59	Main creek out of Two Lakes (above falls)
9/25	Two Lakes	Two Lakes	Klickitat	0	Rb	142	Main creek out of Two Lakes (above falls)
9/25	Two Lakes	Two Lakes	Klickitat	9	Rb	104	Main creek out of Two Lakes (above falls)
	Two Lakes	Two Lakes	Klickitat		Rb		Main creek out of Two Lakes (above falls)
	Two Lakes	Two Lakes	Klickitat		Rb		Main creek out of Two Lakes (above falls)
	Two Lakes	Two Lakes	Klickitat		Rb		Main creek out of Two Lakes (above falls)
	Two Lakes	Two Lakes	Klickitat		Rb		Main creek out of Two Lakes (above falls)
9/25	Two Lakes	Two Lakes	Klickitat		Rb	90	Main creek out of Two Lakes (above falls)
9/25	Two Lakes	Two Lakes	Klickitat	9	Rb	91	Main creek out of Two Lakes (above falls)
9/25	Two Lakes	Two Lakes	Klickitat	9	Rb	66	Main creek out of Two Lakes (above falls)
9/25	Two Lakes	Two Lakes	Klickitat	9	Rb	58	Main creek out of Two Lakes (above falls)
	Two Lakes	Two Lakes	Klickitat		Rb		Main creek out of Two Lakes (above falls)
	Two Lakes	Two Lakes	Klickitat		Rb		Main creek out of Two Lakes (above falls)
	Two Lakes	Two Lakes	Klickitat		Rb		Main creek out of Two Lakes (above falls)
	Two Lakes	Two Lakes	Klickitat		Rb		Main creek out of Two Lakes (above falls)
	Two Lakes	Two Lakes	Klickitat		Rb		Main creek out of Two Lakes (above falls)
9/25	Two Lakes	Two Lakes	Klickitat	9	Rb	100	Main creek out of Two Lakes (above falls)
9/25	Two Lakes	Two Lakes	Klickitat	9	Rb	80	Main creek out of Two Lakes (above falls)
9/25	Two Lakes	Two Lakes	Klickitat	0	Rb	85	Main creek out of Two Lakes (above falls)
9/25	Two Lakes	Two Lakes	Klickitat	9	Rb	115	Main creek out of Two Lakes (above falls)
	Two Lakes	Two Lakes	Klickitat		_		Main creek out of Two Lakes (above falls)
	Two Lakes	Two Lakes	Klickitat				Main creek out of Two Lakes (above falls)
			Klickitat		Rb		Main creek out of Two Lakes (above falls)
	Two Lakes	Two Lakes					·
	Two Lakes	Two Lakes	Klickitat		Rb		Main creek out of Two Lakes (above falls)
	Two Lakes	Two Lakes	Klickitat		Rb		Main creek out of Two Lakes (above falls)
9/25	Two Lakes	Two Lakes	Klickitat		Rb		Main creek out of Two Lakes (above falls)
9/25	Two Lakes	Two Lakes	Klickitat	9	Rb	52	Main creek out of Two Lakes (above falls)
9/25	Two Lakes	Two Lakes	Klickitat	9	Rb		Main creek out of Two Lakes (above falls)
	Two Lakes	Two Lakes	Klickitat		Rb		Main creek out of Two Lakes (above falls)
	Two Lakes	Two Lakes	Klickitat		Rb		Main creek out of Two Lakes (above falls)
					Rb		
	Two Lakes	Two Lakes	Klickitat				Main creek out of Two Lakes (above falls)
	Two Lakes	Two Lakes	Klickitat		Rb		Main creek out of Two Lakes (above falls)
	Two Lakes	Two Lakes	Klickitat		Rb		Main creek out of Two Lakes (above falls)
9/25	Two Lakes	Two Lakes	Klickitat		Rb		Main creek out of Two Lakes (above falls)
9/25	Two Lakes	Two Lakes	Klickitat	9	Rb	97	Main creek out of Two Lakes (above falls)
9/25	Two Lakes	Two Lakes	Klickitat	9	Rb	55	Main creek out of Two Lakes (above falls)
	Two Lakes	Two Lakes	Klickitat		Rb		Main creek out of Two Lakes (above falls)
	Two Lakes	Two Lakes	Klickitat		Rb		Main creek out of Two Lakes (above falls)
			Klickitat		Rb		Main creek out of Two Lakes (above falls)
	Two Lakes	Two Lakes					
	Two Lakes	Two Lakes	Klickitat		Rb		Main creek out of Two Lakes (above falls)
9/25		Two Lakes	Klickitat		Rb		Main creek out of Two Lakes (above falls)
9/25	Two Lakes	Two Lakes	Klickitat		Rb	54	Main creek out of Two Lakes (above falls)
9/25	Two Lakes	Two Lakes	Klickitat	9	Rb	48	Main creek out of Two Lakes (above falls)
9/25	Two Lakes	Two Lakes	Klickitat	9	Rb	55	Main creek out of Two Lakes (above falls)
	Two Lakes	Two Lakes	Klickitat		Rb		Main creek out of Two Lakes (above falls)
	Two Lakes	Two Lakes	Klickitat		Rb		Main creek out of Two Lakes (above falls)
5/25	1 TO LUNCS	1 170 LUNOS	MONITOR	J	ıνυ	100	main order out or 1 we barred (above raile)

Appendix C. Electroshock data from streams in the Klickitat and White Salmon river basins, 2001.

9/25 Two	o Lakes	Two Lakes	Klickitat	9	Rb	53	Main creek out of Two Lakes (above falls)
9/25 Two		Two Lakes	Klickitat		Rb		Main creek out of Two Lakes (above falls)
9/25 Two		Two Lakes	Klickitat		Rb		Main creek out of Two Lakes (above falls)
9/25 Two		Two Lakes	Klickitat		Rb		Main creek out of Two Lakes (above falls)
9/25 Two		Two Lakes	Klickitat		Rb		Main creek out of Two Lakes (above falls)
9/25 Two		Two Lakes	Klickitat		Rb		Main creek out of Two Lakes (above falls)
9/25 Two	o Lakes	Two Lakes	Klickitat	9	Rb	40	Main creek out of Two Lakes (above falls)
9/25 Two	o Lakes	Two Lakes	Klickitat	9	Rb	53	Main creek out of Two Lakes (above falls)
9/25 Two	o Lakes	Two Lakes	Klickitat	9	Rb	55	Main creek out of Two Lakes (above falls)
9/25 Two	o Lakes	Two Lakes	Klickitat	9	Rb	56	Main creek out of Two Lakes (above falls)
9/25 Two		Two Lakes	Klickitat		Rb		Main creek out of Two Lakes (above falls)
9/25 Two		Two Lakes	Klickitat		Bk		Main creek out of Two Lakes (above falls)
9/25 Two		Two Lakes	Klickitat		Bk		Main creek out of Two Lakes (above falls)
9/25 Two		Two Lakes	Klickitat		Bk		Main creek out of Two Lakes (above falls)
9/25 Two	o Lakes	Two Lakes	Klickitat	9	Bk	138	Main creek out of Two Lakes (above falls)
9/25 Two	o Lakes	Two Lakes	Klickitat	9	Bk	111	Main creek out of Two Lakes (above falls)
9/25 Two	o Lakes	Two Lakes	Klickitat	9	Bk	120	Main creek out of Two Lakes (above falls)
9/25 Two	o Lakes	Two Lakes	Klickitat	9	Bk	120	Main creek out of Two Lakes (above falls)
9/25 Two		Two Lakes	Klickitat		Bk		Main creek out of Two Lakes (above falls)
9/25 Two		Two Lakes	Klickitat		Bk		Main creek out of Two Lakes (above falls)
9/25 Two		Two Lakes	Klickitat		Bk		Main creek out of Two Lakes (above falls)
9/25 Two		Two Lakes	Klickitat		Bk		Main creek out of Two Lakes (above falls)
9/25 Two		Two Lakes	Klickitat		Bk		Main creek out of Two Lakes (above falls)
9/25 Two	o Lakes	Two Lakes	Klickitat	9	Bk	113	Main creek out of Two Lakes (above falls)
9/25 Two	o Lakes	Two Lakes	Klickitat	9	Bk	93	Main creek out of Two Lakes (above falls)
9/25 Two	o Lakes	Two Lakes	Klickitat	9	Bk		Main creek out of Two Lakes (above falls)
9/25 Two		Two Lakes	Klickitat		Bk		Main creek out of Two Lakes (above falls)
9/25 Two		Two Lakes	Klickitat		Bk		Main creek out of Two Lakes (above falls)
9/25 Two		Two Lakes	Klickitat		Bk		Main creek out of Two Lakes (above falls)
9/25 Two		Two Lakes	Klickitat		Bk		Main creek out of Two Lakes (above falls)
9/25 Two	o Lakes	Two Lakes	Klickitat	9	Bk		Main creek out of Two Lakes (above falls)
9/25 Two	o Lakes	Two Lakes	Klickitat	9	Bk	128	Main creek out of Two Lakes (above falls)
9/25 Two	o Lakes	Two Lakes	Klickitat	9	Bk	132	Main creek out of Two Lakes (above falls)
9/25 Two	o Lakes	Two Lakes	Klickitat	9	Bk	149	Main creek out of Two Lakes (above falls)
9/25 Two		Two Lakes	Klickitat	9	Bk		Main creek out of Two Lakes (above falls)
9/25 Two		Two Lakes	Klickitat		Bk		Main creek out of Two Lakes (above falls)
9/25 Two		Two Lakes	Klickitat		Bk		Main creek out of Two Lakes (above falls)
9/25 Two		Two Lakes	Klickitat		Bk		Main creek out of Two Lakes (above falls)
9/25 Two		Two Lakes	Klickitat		Bk	170	Main creek out of Two Lakes (above falls)
9/25 Two	o Lakes	Two Lakes	Klickitat		Bk	152	Main creek out of Two Lakes (above falls)
9/25 Unn	named	Two Lakes	Klickitat	4.5	Bk	56	Unnamed trib. to Two Lakes Stream
9/25 Unn	named	Two Lakes	Klickitat	4.5	Bk	187	Unnamed trib. to Two Lakes Stream
9/25 Unn	named	Two Lakes	Klickitat	4.5	Bk	48	Unnamed trib. to Two Lakes Stream
9/25 Unn		Two Lakes	Klickitat	4.5	Bk		Unnamed trib. to Two Lakes Stream
9/25 Unn		Two Lakes	Klickitat		Bk		Unnamed trib. to Two Lakes Stream
9/26 Unn			Klickitat				Unnamed trib. to Fish Lake Stream
		Fish Lake					
9/26 Unn		Fish Lake	Klickitat	8.5			Unnamed trib. to Fish Lake Stream
9/26 Unn		Fish Lake	Klickitat	8.5			Unnamed trib. to Fish Lake Stream
9/26 Unn		Fish Lake	Klickitat	8.5		135	Unnamed trib. to Fish Lake Stream
9/26 Unn	named	Fish Lake	Klickitat	8.5	Rb		Unnamed trib. to Fish Lake Stream
0/00 11	larrica	1 IOI1 Luito				306	
9/26 Unn		Fish Lake	Klickitat	8.5	KD I	300	Unnamed trib. to Fish Lake Stream
	named	Fish Lake		8.5 8.5			Unnamed trib. to Fish Lake Stream Unnamed trib. to Fish Lake Stream
9/26 Unn	named named	Fish Lake Fish Lake	Klickitat	8.5	Bu	123	Unnamed trib. to Fish Lake Stream
9/26 Unn 9/26 Unn	named named named	Fish Lake Fish Lake Fish Lake	Klickitat Klickitat	8.5 8.5	Bu Bu	123 174	Unnamed trib. to Fish Lake Stream Unnamed trib. to Fish Lake Stream
9/26 Unn 9/26 Unn 9/26 Unn	named named named named	Fish Lake Fish Lake Fish Lake Fish Lake	Klickitat Klickitat Klickitat	8.5 8.5 8.5	Bu Bu Bu	123 174 114	Unnamed trib. to Fish Lake Stream Unnamed trib. to Fish Lake Stream Unnamed trib. to Fish Lake Stream
9/26 Unn 9/26 Unn 9/26 Unn 9/26 Unn	named named named named named	Fish Lake Fish Lake Fish Lake Fish Lake Fish Lake	Klickitat Klickitat Klickitat Klickitat	8.5 8.5 8.5 8.5	Bu Bu Bu Bu	123 174 114 120	Unnamed trib. to Fish Lake Stream
9/26 Unn 9/26 Unn 9/26 Unn 9/26 Unn 9/26 Unn	named named named named named named named	Fish Lake Fish Lake Fish Lake Fish Lake Fish Lake Fish Lake	Klickitat Klickitat Klickitat Klickitat Klickitat	8.5 8.5 8.5 8.5 8.5	Bu Bu Bu Bu	123 174 114 120 111	Unnamed trib. to Fish Lake Stream
9/26 Unn 9/26 Unn 9/26 Unn 9/26 Unn 9/26 Unn 9/26 Unn	named named named named named named named	Fish Lake	Klickitat Klickitat Klickitat Klickitat Klickitat Klickitat Klickitat	8.5 8.5 8.5 8.5 8.5	Bu Bu Bu Bu	123 174 114 120 111	Unnamed trib. to Fish Lake Stream
9/26 Unn 9/26 Unn 9/26 Unn 9/26 Unn 9/26 Unn	named named named named named named named	Fish Lake Fish Lake Fish Lake Fish Lake Fish Lake Fish Lake	Klickitat Klickitat Klickitat Klickitat Klickitat	8.5 8.5 8.5 8.5 8.5	Bu Bu Bu Bu	123 174 114 120 111	Unnamed trib. to Fish Lake Stream
9/26 Unn 9/26 Unn 9/26 Unn 9/26 Unn 9/26 Unn 9/26 Unn 9/26 Unn 9/26 Unn	named named named named named named named named named	Fish Lake	Klickitat Klickitat Klickitat Klickitat Klickitat Klickitat Klickitat Klickitat	8.5 8.5 8.5 8.5 8.5 8.5 5.6	Bu Bu Bu Bu Bu	123 174 114 120 111 151	Unnamed trib. to Fish Lake Stream
9/26 Unn 9/26 Unn 9/26 Unn 9/26 Unn 9/26 Unn 9/26 Unn 9/26 Unn 9/26 Unn 9/26 Yed	named	Fish Lake Cold Creek? Klickitat	Klickitat	8.5 8.5 8.5 8.5 8.5 5.6 10.5	Bu Bu Bu Bu Bu Rb	123 174 114 120 111 151	Unnamed trib. to Fish Lake Stream no fish, unnamed trib to Cold Creek? shocked upstream from culvert at road
9/26 Unn 9/26 Yed	named dlick	Fish Lake Fish Lake Fish Lake Fish Lake Fish Lake Fish Lake Cold Creek? Klickitat Klickitat	Klickitat	8.5 8.5 8.5 8.5 8.5 5.6 10.5	Bu Bu Bu Bu Bu Rb	123 174 114 120 111 151 107 125	Unnamed trib. to Fish Lake Stream unnamed trib. to Cold Creek? shocked upstream from culvert at road shocked upstream from culvert at road
9/26 Unn 9/26 Yed 9/26 Yed	named dlick	Fish Lake Cold Creek? Klickitat Klickitat	Klickitat	8.5 8.5 8.5 8.5 8.5 5.6 10.5 10.5	Bu Bu Bu Bu Bu Rb Rb	123 174 114 120 111 151 107 125 85	Unnamed trib. to Fish Lake Stream no fish, unnamed trib to Cold Creek? shocked upstream from culvert at road shocked upstream from culvert at road shocked upstream from culvert at road
9/26 Unn 9/26 Yed 9/26 Yed 9/26 Yed	named named named named named named named named named dlick dlick dlick	Fish Lake Cold Creek? Klickitat Klickitat Klickitat Klickitat	Klickitat	8.5 8.5 8.5 8.5 5.6 10.5 10.5 10.5	Bu Bu Bu Bu Bu Rb Rb Rb	123 174 114 120 111 151 107 125 85 90	Unnamed trib. to Fish Lake Stream on fish, unnamed trib to Cold Creek? shocked upstream from culvert at road
9/26 Unn 9/26 Yed 9/26 Yed 9/26 Yed 9/26 Yed 9/26 Yed	named named named named named named named named dlick dlick dlick dlick	Fish Lake Cold Creek? Klickitat Klickitat Klickitat Klickitat Klickitat	Klickitat	8.5 8.5 8.5 8.5 5.6 10.5 10.5 10.5	Bu Bu Bu Bu Bu Rb Rb Rb Rb	123 174 114 120 111 151 107 125 85 90	Unnamed trib. to Fish Lake Stream on fish, unnamed trib to Cold Creek? shocked upstream from culvert at road
9/26 Unn 9/26 Yed	named named named named named named named named dlick dlick dlick dlick dlick	Fish Lake Cold Creek? Klickitat Klickitat Klickitat Klickitat Klickitat Klickitat Klickitat	Klickitat	8.5 8.5 8.5 8.5 5.6 10.5 10.5 10.5 10.5	Bu Bu Bu Bu Bu Rb Rb Rb Rb Rb Rb	123 174 114 120 111 151 107 125 85 90 90	Unnamed trib. to Fish Lake Stream no fish, unnamed trib to Cold Creek? shocked upstream from culvert at road
9/26 Unn 9/26 Yed 9/26 Yed 9/26 Yed 9/26 Yed 9/26 Yed	named named named named named named named named dlick dlick dlick dlick dlick	Fish Lake Cold Creek? Klickitat Klickitat Klickitat Klickitat Klickitat	Klickitat	8.5 8.5 8.5 8.5 5.6 10.5 10.5 10.5	Bu Bu Bu Bu Bu Rb Rb Rb Rb Rb Rb	123 174 114 120 111 151 107 125 85 90 90 100 90	Unnamed trib. to Fish Lake Stream no fish, unnamed trib to Cold Creek? shocked upstream from culvert at road
9/26 Unn 9/26 Yed	named named named named named named named named dlick dlick dlick dlick dlick dlick dlick	Fish Lake Cold Creek? Klickitat Klickitat Klickitat Klickitat Klickitat Klickitat Klickitat	Klickitat	8.5 8.5 8.5 8.5 5.6 10.5 10.5 10.5 10.5	Bu Bu Bu Bu Bu Rb Rb Rb Rb Rb Rb Rb	123 174 114 120 111 151 107 125 85 90 90 100 90	Unnamed trib. to Fish Lake Stream no fish, unnamed trib to Cold Creek? shocked upstream from culvert at road
9/26 Unn 9/26 Yed	named named named named named named named named dlick dlick dlick dlick dlick dlick dlick dlick dlick	Fish Lake Cold Creek? Klickitat	Klickitat	8.5 8.5 8.5 8.5 5.6 10.5 10.5 10.5 10.5 10.5 10.5	Bu Bu Bu Bu Bu Rb Rb Rb Rb Rb Rb	123 174 114 120 111 151 107 125 85 90 90 100 90 72	Unnamed trib. to Fish Lake Stream on fish, unnamed trib to Cold Creek? shocked upstream from culvert at road
9/26 Unn 9/26 Yed	named named named named named named named named named dlick	Fish Lake Cold Creek? Klickitat	Klickitat	8.5 8.5 8.5 8.5 5.6 10.5 10.5 10.5 10.5 10.5 10.5 10.5	Bu Bu Bu Bu Bu Rb Rb Rb Rb Rb Rb Rb	123 174 114 120 111 151 107 125 85 90 90 100 90 72 69	Unnamed trib. to Fish Lake Stream no fish, unnamed trib to Cold Creek? shocked upstream from culvert at road
9/26 Unn 9/26 Yed	named named named named named named named named named dlick	Fish Lake Cold Creek? Klickitat	Klickitat	8.5 8.5 8.5 8.5 5.6 10.5 10.5 10.5 10.5 10.5 10.5	Bu Bu Bu Bu Bu Rb Rb Rb Rb Rb Rb Rb Rb Rb	123 174 114 120 111 151 107 125 85 90 90 100 90 72 69 59	Unnamed trib. to Fish Lake Stream on fish, unnamed trib to Cold Creek? shocked upstream from culvert at road

Appendix C. Electroshock data from streams in the Klickitat and White Salmon river basins, 2001.

9/26 Yedlick Klickitat	Klickitat Klickitat Klickitat Klickitat Klickitat Klickitat Klickitat	10.5 10.5 10.5 10.5	Rb Rb Rb	84 112 103	shocked upstream from culvert at road
9/26 Yedlick Klickitat	Klickitat Klickitat Klickitat Klickitat	10.5 10.5 10.5 10.5	Rb Rb Rb	84 112 103	shocked upstream from culvert at road shocked upstream from culvert at road
9/26 Yedlick Klickitat	Klickitat Klickitat Klickitat	10.5 10.5 10.5	Rb Rb	112 103	shocked upstream from culvert at road
9/26 Yedlick Klickitat	Klickitat Klickitat	10.5 10.5	Rb	103	
9/26 Yedlick Klickitat	Klickitat	10.5			shocked upstream nom culvert at load
9/26 Yedlick Klickitat		_		100	abadicad unatroom from outroot at road
9/26 Yedlick Klickitat	Klickitat	40 5			shocked upstream from culvert at road
9/26 Yedlick Klickitat		10.5		87	shocked upstream from culvert at road
9/26YedlickKlickitat9/26YedlickKlickitat9/26YedlickKlickitat	Klickitat	10.5		147	
9/26 Yedlick Klickitat 9/26 Yedlick Klickitat	Klickitat	10.5		97	shocked upstream from culvert at road
9/26 Yedlick Klickitat	Klickitat	10.5	Rb	125	shocked upstream from culvert at road
9/26 Yedlick Klickitat	Klickitat	10.5	Rb	97	shocked upstream from culvert at road
	Klickitat	10.5	Rb	148	shocked upstream from culvert at road
9/26 Yedlick Klickitat	Klickitat	10.5			shocked upstream from culvert at road
9/26 Yedlick Klickitat	Klickitat	10.5			shocked upstream from culvert at road
9/26 Yedlick Klickitat	Klickitat	10.5			shocked upstream from culvert at road
9/26 Yedlick Klickitat	Klickitat	10.5			shocked upstream from culvert at road
9/26 Swamp Klickitat	Klickitat		Rb		shocked at end of 251 Road
9/26 Swamp Klickitat	Klickitat	10	Rb	127	shocked at end of 251 Road
9/26 Swamp Klickitat	Klickitat	10	Rb	110	shocked at end of 251 Road
9/26 Swamp Klickitat	Klickitat	10	Rb	95	shocked at end of 251 Road
9/26 Swamp Klickitat	Klickitat		Rb		shocked at end of 251 Road
9/26 Swamp Klickitat	Klickitat		Rb		shocked at end of 251 Road
9/26 Swamp Klickitat	Klickitat	_	Rb		shocked at end of 251 Road
9/26 Swamp Klickitat	Klickitat		Rb		
9/26 Swamp Klickitat	Klickitat		Rb		shocked at end of 251 Road
9/26 Swamp Klickitat	Klickitat	_	Rb		shocked at end of 251 Road
9/26 Swamp Klickitat	Klickitat	10	Rb	39	shocked at end of 251 Road
9/26 Swamp Klickitat	Klickitat	10	Rb	110	shocked at end of 251 Road
9/26 Swamp Klickitat	Klickitat		Rb	110	shocked at end of 251 Road
9/26 Swamp Klickitat	Klickitat		Rb		shocked at end of 251 Road
9/26 Swamp Klickitat	Klickitat		Rb		shocked at end of 251 Road
		_			
9/26 Swamp Klickitat	Klickitat		Rb		shocked at end of 251 Road
9/26 Swamp Klickitat	Klickitat				shocked at end of 251 Road
9/26 Swamp Klickitat	Klickitat		Rb		shocked at end of 251 Road
9/26 Swamp Klickitat	Klickitat	10	Rb	85	shocked at end of 251 Road
9/26 Swamp Klickitat	Klickitat	10	Rb	42	shocked at end of 251 Road
9/26 Swamp Klickitat	Klickitat	10	Rb	47	shocked at end of 251 Road
9/26 Swamp Klickitat	Klickitat	10	Rb	54	shocked at end of 251 Road
9/26 Swamp Klickitat	Klickitat		Rb	83	shocked at end of 251 Road
9/26 Swamp Klickitat	Klickitat		Rb		shocked at end of 251 Road
 	Klickitat	_	Rb		shocked at end of 251 Road
9/26 Swamp Klickitat	Klickitat		Rb		shocked at end of 251 Road
9/26 Swamp Klickitat	Klickitat	_	Rb		shocked at end of 251 Road
9/26 Swamp Klickitat	Klickitat	10	Rb	85	shocked at end of 251 Road
9/26 Swamp Klickitat	Klickitat	10	Rb	77	shocked at end of 251 Road
9/26 Swamp Klickitat	Klickitat	10	Rb	139	shocked at end of 251 Road
9/26 Swamp Klickitat	Klickitat		Rb		shocked at end of 251 Road
9/26 Swamp Klickitat	Klickitat		Rb		shocked at end of 251 Road
9/26 Swamp Klickitat	Klickitat		Rb		
	Klickitat		Rb		shocked at end of 251 Road
9/26 Swamp Klickitat	Klickitat		Rb		shocked at end of 251 Road
9/26 Swamp Klickitat	Klickitat		Rb		shocked at end of 251 Road
9/26 Swamp Klickitat	Klickitat		Rb		shocked at end of 251 Road
9/26 Swamp Klickitat	Klickitat		Rb	170	shocked at end of 251 Road
9/26 Swamp Klickitat	Klickitat		Rb	166	shocked at end of 251 Road
9/26 Swamp Klickitat	Klickitat		Rb		shocked at end of 251 Road
9/26 Swamp Klickitat	Klickitat		Rb		shocked at end of 251 Road
9/26 Swamp Klickitat	Klickitat				shocked at end of 251 Road
		_	ĽΩ	1/3	
10/1 Howard Lake Fish Lake		7	Б.	4 40	no fish, east fork of Howard Lake Stream
10/1 Howard Lake Fish Lake			Rb		West fork of Howard Lake Stream
10/1 Howard Lake Fish Lake		6.7			West fork of Howard Lake Stream
10/1 Howard Lake Fish Lake	Klickitat	6.7	Rb	118	West fork of Howard Lake Stream
		6.7	Rb	135	West fork of Howard Lake Stream
10/1 Howard Lake Fish Lake			Rb		West fork of Howard Lake Stream
			Rb		West fork of Howard Lake Stream
10/1 Howard Lake Fish Lake		J			
10/1 Howard Lake Fish Lake 10/1 Howard Lake Fish Lake		67	Ph	71	West fork of Howard Lake Stream
10/1 Howard Lake Fish Lake 10/1 Howard Lake Fish Lake 10/1 Howard Lake Fish Lake	Klickitat		Rb		West fork of Howard Lake Stream
10/1 Howard Lake Fish Lak 10/1 Howard Lake Fish Lak 10/1 Howard Lake Fish Lak 10/1 Howard Lake Fish Lak	Klickitat Klickitat	6.7	Rb	167	West fork of Howard Lake Stream
10/1 Howard Lake Fish Lak	Klickitat Klickitat Klickitat	6.7 6.7	Rb Bk	167 125	West fork of Howard Lake Stream West fork of Howard Lake Stream
10/1 Howard Lake Fish Lak 10/1 Howard Lake Fish Lak 10/1 Howard Lake Fish Lak 10/1 Howard Lake Fish Lak	Klickitat Klickitat Klickitat Klickitat	6.7	Rb Bk Bk	167 125 71	West fork of Howard Lake Stream

Appendix C. Electroshock data from streams in the Klickitat and White Salmon river basins, 2001.

10/1	Howard Lake	Fish Lake	Klickitat	6.7	Bk	52	West fork of Howard Lake Stream
10/1	Howard Lake	Fish Lake	Klickitat	6.7	Rk		West fork of Howard Lake Stream
			Klickitat				
	Fish Lake	West Fork Klickitat					started about 1/4 mi. below Fish Lake
	Fish Lake	West Fork Klickitat	Klickitat				started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Rb	123	started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Rb	133	started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Rb	88	started about 1/4 mi. below Fish Lake
	Fish Lake	West Fork Klickitat	Klickitat		Rb		started about 1/4 mi. below Fish Lake
					Rb	95	
	Fish Lake	West Fork Klickitat	Klickitat				
	Fish Lake	West Fork Klickitat	Klickitat		Rb		started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Rb	107	started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Rb	106	started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Rb	105	started about 1/4 mi. below Fish Lake
	Fish Lake	West Fork Klickitat	Klickitat		Rb		started about 1/4 mi. below Fish Lake
				_	-		
	Fish Lake	West Fork Klickitat	Klickitat		Rb		started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Rb	135	started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Rb	65	started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Rb	138	started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Rb	97	started about 1/4 mi. below Fish Lake
	Fish Lake	West Fork Klickitat	Klickitat		Rb		started about 1/4 mi. below Fish Lake
	Fish Lake	West Fork Klickitat	Klickitat	_	Rb	90	
	Fish Lake	West Fork Klickitat	Klickitat		Rb		started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat		Rb	117	started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Rb	117	started about 1/4 mi. below Fish Lake
	Fish Lake	West Fork Klickitat	Klickitat		Rb		started about 1/4 mi. below Fish Lake
	Fish Lake	West Fork Klickitat	Klickitat		Rb		started about 1/4 mi. below Fish Lake
	Fish Lake	West Fork Klickitat	Klickitat		Rb		started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Rb	122	started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Rb	94	started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Rb	107	started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Rb	103	started about 1/4 mi. below Fish Lake
	Fish Lake	West Fork Klickitat	Klickitat		Rb		started about 1/4 mi. below Fish Lake
	Fish Lake	West Fork Klickitat	Klickitat		Rb		started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat		Rb	138	started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Rb	93	started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Rb	101	started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Rb	101	started about 1/4 mi. below Fish Lake
	Fish Lake	West Fork Klickitat	Klickitat		Rb		started about 1/4 mi. below Fish Lake
	Fish Lake				Rb		
		West Fork Klickitat	Klickitat				started about 1/4 mi. below Fish Lake
	Fish Lake	West Fork Klickitat	Klickitat		Rb		started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Rb	92	started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Rb	105	started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Rb	108	started about 1/4 mi. below Fish Lake
	Fish Lake	West Fork Klickitat	Klickitat		Rb		started about 1/4 mi. below Fish Lake
	Fish Lake				Rb		
		West Fork Klickitat					started about 1/4 mi. below Fish Lake
	Fish Lake		Klickitat		Rb		started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat		Rb	82	started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Rb	111	started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat		Rb	88	started about 1/4 mi. below Fish Lake
	Fish Lake		Klickitat		Rb		started about 1/4 mi. below Fish Lake
	Fish Lake	West Fork Klickitat	Klickitat		Rb		started about 1/4 mi. below Fish Lake
	Fish Lake	West Fork Klickitat	Klickitat		Rb		started about 1/4 mi. below Fish Lake
	Fish Lake		Klickitat		Rb		started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Rb		started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat		Rb	93	started about 1/4 mi. below Fish Lake
	Fish Lake		Klickitat		Rb	84	
	Fish Lake	West Fork Klickitat	Klickitat		Rb		
	Fish Lake		Klickitat		Rb		started about 1/4 mi. below Fish Lake
	Fish Lake	West Fork Klickitat	Klickitat		Rb	96	started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Rb	<u>11</u> 9	started about 1/4 mi. below Fish Lake
	Fish Lake	West Fork Klickitat	Klickitat		Rb	124	started about 1/4 mi. below Fish Lake
	Fish Lake		Klickitat		Rb		
	Fish Lake		Klickitat		Rb		started about 1/4 mi. below Fish Lake
	Fish Lake		Klickitat		Rb		started about 1/4 mi. below Fish Lake
	Fish Lake	West Fork Klickitat	Klickitat		Rb		started about 1/4 mi. below Fish Lake
	Fish Lake	West Fork Klickitat	Klickitat	10	Rb	100	started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Rb	158	started about 1/4 mi. below Fish Lake
	Fish Lake		Klickitat		Rb		started about 1/4 mi. below Fish Lake
	Fish Lake		Klickitat		Rb		started about 1/4 mi. below Fish Lake
10/2	I ISII LAKE	WEST LOLK VIICKIIGE	MICNIAL	ΙU	ĽΝ	92	Started about 1/4 IIII. below Fish Lake

Appendix C. Electroshock data from streams in the Klickitat and White Salmon river basins, 2001.

10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Rh	123	started about 1/4 mi. below Fish Lake
	Fish Lake	West Fork Klickitat	Klickitat		Rb		started about 1/4 mi. below Fish Lake
	Fish Lake	West Fork Klickitat	Klickitat	_	Rb		started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Rb	97	started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Rb	91	started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Rb	03	started about 1/4 mi. below Fish Lake
	Fish Lake	West Fork Klickitat	Klickitat		Rb		started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Rb	152	started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Rb	112	started about 1/4 mi. below Fish Lake
	Fish Lake	West Fork Klickitat	Klickitat		Rb	90	
	Fish Lake	West Fork Klickitat	Klickitat		Rb		started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Rb	98	started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Rb	91	started about 1/4 mi. below Fish Lake
	Fish Lake	West Fork Klickitat	Klickitat		Rb	98	started about 1/4 mi. below Fish Lake
	Fish Lake	West Fork Klickitat	Klickitat		Rb	94	
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Rb	87	started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Rb	147	started about 1/4 mi. below Fish Lake
	Fish Lake	West Fork Klickitat	Klickitat		Rb		started about 1/4 mi. below Fish Lake
	Fish Lake	West Fork Klickitat	Klickitat		Rb		started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Rb		started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Rb	106	started about 1/4 mi. below Fish Lake
	Fish Lake	West Fork Klickitat	Klickitat		Rb		started about 1/4 mi. below Fish Lake
	Fish Lake	West Fork Klickitat	Klickitat		Rb		started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat		Rb	96	started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Rb	94	started about 1/4 mi. below Fish Lake
	Fish Lake	West Fork Klickitat	Klickitat	10	Rh		started about 1/4 mi. below Fish Lake
	Fish Lake						
		West Fork Klickitat	Klickitat		Rb		started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Rb	141	started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Rb	97	started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Rb	112	started about 1/4 mi. below Fish Lake
	Fish Lake	West Fork Klickitat	Klickitat		Rb		started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Rb	106	started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Rb	117	started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Rb	100	started about 1/4 mi. below Fish Lake
					Rb		
	Fish Lake	West Fork Klickitat	Klickitat				started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat		Rb	85	started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Rb	85	started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Rb	95	started about 1/4 mi. below Fish Lake
	Fish Lake	West Fork Klickitat	Klickitat		Rb		started about 1/4 mi. below Fish Lake
	Fish Lake	West Fork Klickitat	Klickitat		Rb		started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Rb	97	started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Rb	129	started about 1/4 mi. below Fish Lake
	Fish Lake	West Fork Klickitat	Klickitat	10	Bk		started about 1/4 mi. below Fish Lake
	Fish Lake				Bk		started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Bk	66	started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Bk	70	started about 1/4 mi. below Fish Lake
	Fish Lake	West Fork Klickitat	Klickitat		Bk		started about 1/4 mi. below Fish Lake
	Fish Lake	West Fork Klickitat	Klickitat		Bk	67	started about 1/4 mi. below Fish Lake
						_	
	Fish Lake	West Fork Klickitat	Klickitat		Bk		started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Bk	108	started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Bk	112	started about 1/4 mi. below Fish Lake
	Fish Lake	West Fork Klickitat	Klickitat		Bk		started about 1/4 mi. below Fish Lake
	Fish Lake		Klickitat		Bk		started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat		Bk		started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Bk	145	started about 1/4 mi. below Fish Lake
	I ISH Lake						
10/2					R⊬	103	
	Fish Lake	West Fork Klickitat	Klickitat	10	Bk	103	started about 1/4 mi. below Fish Lake
10/2	Fish Lake Fish Lake	West Fork Klickitat West Fork Klickitat	Klickitat Klickitat	10 10	Bk	138	started about 1/4 mi. below Fish Lake started about 1/4 mi. below Fish Lake
10/2 10/2	Fish Lake Fish Lake Fish Lake	West Fork Klickitat West Fork Klickitat West Fork Klickitat	Klickitat Klickitat Klickitat	10 10 10	Bk Bk	138	started about 1/4 mi. below Fish Lake started about 1/4 mi. below Fish Lake started about 1/4 mi. below Fish Lake
10/2 10/2	Fish Lake Fish Lake	West Fork Klickitat West Fork Klickitat	Klickitat Klickitat	10 10 10	Bk	138	started about 1/4 mi. below Fish Lake started about 1/4 mi. below Fish Lake
10/2 10/2 10/2	Fish Lake Fish Lake Fish Lake Fish Lake	West Fork Klickitat West Fork Klickitat West Fork Klickitat West Fork Klickitat	Klickitat Klickitat Klickitat Klickitat	10 10 10	Bk Bk Bk	138 119 60	started about 1/4 mi. below Fish Lake
10/2 10/2 10/2 10/2	Fish Lake Fish Lake Fish Lake Fish Lake Fish Lake	West Fork Klickitat West Fork Klickitat West Fork Klickitat West Fork Klickitat West Fork Klickitat	Klickitat Klickitat Klickitat Klickitat Klickitat Klickitat	10 10 10 10	Bk Bk Bk Bk	138 119 60 54	started about 1/4 mi. below Fish Lake
10/2 10/2 10/2 10/2 10/2	Fish Lake	West Fork Klickitat West Fork Klickitat West Fork Klickitat West Fork Klickitat West Fork Klickitat West Fork Klickitat	Klickitat Klickitat Klickitat Klickitat Klickitat Klickitat Klickitat	10 10 10 10 10	Bk Bk Bk Bk	138 119 60 54 59	started about 1/4 mi. below Fish Lake
10/2 10/2 10/2 10/2 10/2 10/2	Fish Lake	West Fork Klickitat	Klickitat Klickitat Klickitat Klickitat Klickitat Klickitat Klickitat Klickitat Klickitat	10 10 10 10 10 10	Bk Bk Bk Bk Bk Bk	138 119 60 54 59 101	started about 1/4 mi. below Fish Lake
10/2 10/2 10/2 10/2 10/2 10/2	Fish Lake	West Fork Klickitat	Klickitat Klickitat Klickitat Klickitat Klickitat Klickitat Klickitat	10 10 10 10 10	Bk Bk Bk Bk Bk Bk	138 119 60 54 59 101	started about 1/4 mi. below Fish Lake
10/2 10/2 10/2 10/2 10/2 10/2 10/2	Fish Lake	West Fork Klickitat	Klickitat	10 10 10 10 10 10 10	Bk Bk Bk Bk Bk	138 119 60 54 59 101 153	started about 1/4 mi. below Fish Lake
10/2 10/2 10/2 10/2 10/2 10/2 10/2 10/2	Fish Lake	West Fork Klickitat	Klickitat	10 10 10 10 10 10 10 10	Bk Bk Bk Bk Bk Bk	138 119 60 54 59 101 153 112	started about 1/4 mi. below Fish Lake
10/2 10/2 10/2 10/2 10/2 10/2 10/2 10/2	Fish Lake	West Fork Klickitat	Klickitat	10 10 10 10 10 10 10 10 10	Bk Bk Bk Bk Bk Bk Bk	138 119 60 54 59 101 153 112 63	started about 1/4 mi. below Fish Lake
10/2 10/2 10/2 10/2 10/2 10/2 10/2 10/2	Fish Lake	West Fork Klickitat	Klickitat	10 10 10 10 10 10 10 10 10 10	Bk Bk Bk Bk Bk Bk Bk	138 119 60 54 59 101 153 112 63 53	started about 1/4 mi. below Fish Lake
10/2 10/2 10/2 10/2 10/2 10/2 10/2 10/2	Fish Lake	West Fork Klickitat	Klickitat	10 10 10 10 10 10 10 10 10 10	Bk Bk Bk Bk Bk Bk Bk Bk	138 119 60 54 59 101 153 112 63 53	started about 1/4 mi. below Fish Lake
10/2 10/2 10/2 10/2 10/2 10/2 10/2 10/2	Fish Lake	West Fork Klickitat	Klickitat	10 10 10 10 10 10 10 10 10 10	Bk Bk Bk Bk Bk Bk Bk	138 119 60 54 59 101 153 112 63 53 107	started about 1/4 mi. below Fish Lake
10/2 10/2 10/2 10/2 10/2 10/2 10/2 10/2	Fish Lake	West Fork Klickitat	Klickitat	10 10 10 10 10 10 10 10 10 10 10	Bk Bk Bk Bk Bk Bk Bk Bk	138 119 60 54 59 101 153 112 63 53 107 77	started about 1/4 mi. below Fish Lake

Appendix C. Electroshock data from streams in the Klickitat and White Salmon river basins, 2001.

	Fish Lake	West Fork Klickitat	Klickitat	10	Bk	184	started about 1/4 mi. below Fish Lake
	Fish Lake	West Fork Klickitat	Klickitat		Bk		started about 1/4 mi. below Fish Lake
	Fish Lake	West Fork Klickitat	Klickitat		Bk	67	
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Bk	104	started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Bk	73	started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Bk	67	
						_	
	Fish Lake	West Fork Klickitat	Klickitat		Bk		started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Bk	56	started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Bk	54	started about 1/4 mi. below Fish Lake
	Fish Lake	West Fork Klickitat	Klickitat		Bk		started about 1/4 mi. below Fish Lake
				_			
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Bk	124	started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Bk	140	started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Bk	112	started about 1/4 mi. below Fish Lake
	Fish Lake		Klickitat		Bk		started about 1/4 mi. below Fish Lake
_		West Fork Klickitat			_		
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Bk	69	started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Bk	105	started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Bk	148	started about 1/4 mi. below Fish Lake
	Fish Lake	West Fork Klickitat	Klickitat		Bk		started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Bk	76	started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Bk	81	started about 1/4 mi. below Fish Lake
	Fish Lake	West Fork Klickitat	Klickitat	10			started about 1/4 mi. below Fish Lake
	Fish Lake	West Fork Klickitat	Klickitat	10			started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat		Bk	71	started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Bk	68	started about 1/4 mi. below Fish Lake
	Fish Lake	West Fork Klickitat	Klickitat		Bk		started about 1/4 mi. below Fish Lake
	Fish Lake	West Fork Klickitat	Klickitat		Bk	74	started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Bk	117	started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Bk	116	started about 1/4 mi. below Fish Lake
	Fish Lake		Klickitat		Bk		
		West Fork Klickitat					started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Bk	67	started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Bk	127	started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Bk	119	started about 1/4 mi. below Fish Lake
	Fish Lake	West Fork Klickitat	Klickitat		Bk		started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Bk	129	started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Bk	100	started about 1/4 mi. below Fish Lake
	Fish Lake	West Fork Klickitat	Klickitat	10	Bk		started about 1/4 mi. below Fish Lake
	Fish Lake	West Fork Klickitat	Klickitat		Bk	83	
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Bk	75	started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Bk	158	started about 1/4 mi. below Fish Lake
	Fish Lake		Klickitat	10	Βk		started about 1/4 mi. below Fish Lake
				10	אם	_	Started about 1/4 mi. below i isn Lake
	Etalia I alla	West Fork Klickitat		40	D :		stanta da base (A/A act balance Eab Lata
	Fish Lake	West Fork Klickitat	Klickitat		Bk		started about 1/4 mi. below Fish Lake
	Fish Lake Fish Lake				Bk Bk		started about 1/4 mi. below Fish Lake started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat West Fork Klickitat	Klickitat Klickitat	10	Bk	53	started about 1/4 mi. below Fish Lake
10/2 10/2	Fish Lake Fish Lake	West Fork Klickitat West Fork Klickitat West Fork Klickitat	Klickitat Klickitat Klickitat	10 10	Bk Bk	53 129	started about 1/4 mi. below Fish Lake started about 1/4 mi. below Fish Lake
10/2 10/2 10/2	Fish Lake Fish Lake Fish Lake	West Fork Klickitat West Fork Klickitat West Fork Klickitat West Fork Klickitat	Klickitat Klickitat Klickitat Klickitat	10 10 10	Bk Bk Bk	53 129 72	started about 1/4 mi. below Fish Lake started about 1/4 mi. below Fish Lake started about 1/4 mi. below Fish Lake
10/2 10/2 10/2 10/2	Fish Lake Fish Lake Fish Lake Fish Lake	West Fork Klickitat West Fork Klickitat West Fork Klickitat West Fork Klickitat West Fork Klickitat	Klickitat Klickitat Klickitat Klickitat Klickitat Klickitat	10 10 10 10	Bk Bk Bk Bk	53 129 72 126	started about 1/4 mi. below Fish Lake
10/2 10/2 10/2 10/2	Fish Lake Fish Lake Fish Lake	West Fork Klickitat West Fork Klickitat West Fork Klickitat West Fork Klickitat West Fork Klickitat	Klickitat Klickitat Klickitat Klickitat	10 10 10 10	Bk Bk Bk	53 129 72 126	started about 1/4 mi. below Fish Lake started about 1/4 mi. below Fish Lake started about 1/4 mi. below Fish Lake
10/2 10/2 10/2 10/2 10/2	Fish Lake Fish Lake Fish Lake Fish Lake Fish Lake	West Fork Klickitat	Klickitat Klickitat Klickitat Klickitat Klickitat Klickitat Klickitat Klickitat	10 10 10 10 10	Bk Bk Bk Bk	53 129 72 126 119	started about 1/4 mi. below Fish Lake
10/2 10/2 10/2 10/2 10/2 10/2	Fish Lake	West Fork Klickitat	Klickitat Klickitat Klickitat Klickitat Klickitat Klickitat Klickitat Klickitat Klickitat	10 10 10 10 10 10	Bk Bk Bk Bk Bk Bk	53 129 72 126 119 105	started about 1/4 mi. below Fish Lake
10/2 10/2 10/2 10/2 10/2 10/2 10/2	Fish Lake	West Fork Klickitat	Klickitat	10 10 10 10 10 10	Bk Bk Bk Bk Bk Bk	53 129 72 126 119 105 84	started about 1/4 mi. below Fish Lake
10/2 10/2 10/2 10/2 10/2 10/2 10/2 10/2	Fish Lake	West Fork Klickitat	Klickitat	10 10 10 10 10 10 10	Bk Bk Bk Bk Bk Bk	53 129 72 126 119 105 84 104	started about 1/4 mi. below Fish Lake
10/2 10/2 10/2 10/2 10/2 10/2 10/2 10/2	Fish Lake	West Fork Klickitat	Klickitat	10 10 10 10 10 10 10	Bk Bk Bk Bk Bk Bk	53 129 72 126 119 105 84 104	started about 1/4 mi. below Fish Lake
10/2 10/2 10/2 10/2 10/2 10/2 10/2 10/2	Fish Lake	West Fork Klickitat	Klickitat	10 10 10 10 10 10 10 10	Bk Bk Bk Bk Bk Bk	53 129 72 126 119 105 84 104 65	started about 1/4 mi. below Fish Lake
10/2 10/2 10/2 10/2 10/2 10/2 10/2 10/2	Fish Lake	West Fork Klickitat	Klickitat	10 10 10 10 10 10 10 10 10	Bk Bk Bk Bk Bk Bk Bk Bk	53 129 72 126 119 105 84 104 65 108	started about 1/4 mi. below Fish Lake
10/2 10/2 10/2 10/2 10/2 10/2 10/2 10/2	Fish Lake	West Fork Klickitat	Klickitat	10 10 10 10 10 10 10 10 10 10	Bk Bk Bk Bk Bk Bk Bk Bk	53 129 72 126 119 105 84 104 65 108	started about 1/4 mi. below Fish Lake
10/2 10/2 10/2 10/2 10/2 10/2 10/2 10/2	Fish Lake	West Fork Klickitat	Klickitat	10 10 10 10 10 10 10 10 10 10 10	Bk Bk Bk Bk Bk Bk Bk Bk Bk	53 129 72 126 119 105 84 104 65 108	started about 1/4 mi. below Fish Lake
10/2 10/2 10/2 10/2 10/2 10/2 10/2 10/2	Fish Lake	West Fork Klickitat	Klickitat	10 10 10 10 10 10 10 10 10 10	Bk Bk Bk Bk Bk Bk Bk Bk Bk	53 129 72 126 119 105 84 104 65 108	started about 1/4 mi. below Fish Lake
10/2 10/2 10/2 10/2 10/2 10/2 10/2 10/2	Fish Lake	West Fork Klickitat	Klickitat	10 10 10 10 10 10 10 10 10 10 10	Bk Bk Bk Bk Bk Bk Bk Bk Bk	53 129 72 126 119 105 84 104 65 108 62 148 71	started about 1/4 mi. below Fish Lake
10/2 10/2 10/2 10/2 10/2 10/2 10/2 10/2	Fish Lake	West Fork Klickitat	Klickitat	10 10 10 10 10 10 10 10 10 10 10 10	Bk Bk Bk Bk Bk Bk Bk Bk Bk Bk	53 129 72 126 119 105 84 104 65 108 62 148 71 100	started about 1/4 mi. below Fish Lake
10/2 10/2 10/2 10/2 10/2 10/2 10/2 10/2	Fish Lake	West Fork Klickitat	Klickitat	10 10 10 10 10 10 10 10 10 10 10 10 10	Bk Bk Bk Bk Bk Bk Bk Bk Bk Bk Bk	53 129 72 126 119 105 84 104 65 108 62 148 71 100 117	started about 1/4 mi. below Fish Lake
10/2 10/2 10/2 10/2 10/2 10/2 10/2 10/2	Fish Lake	West Fork Klickitat	Klickitat	10 10 10 10 10 10 10 10 10 10 10 10 10 1	Bk B	53 129 72 126 119 105 84 104 65 108 62 148 71 100 117	started about 1/4 mi. below Fish Lake
10/2 10/2 10/2 10/2 10/2 10/2 10/2 10/2	Fish Lake	West Fork Klickitat	Klickitat	10 10 10 10 10 10 10 10 10 10 10 10 10	Bk B	53 129 72 126 119 105 84 104 65 108 62 148 71 100 117 92	started about 1/4 mi. below Fish Lake
10/2 10/2 10/2 10/2 10/2 10/2 10/2 10/2	Fish Lake	West Fork Klickitat	Klickitat	10 10 10 10 10 10 10 10 10 10 10 10 10 1	Bk Bk Bk Bk Bk Bk Bk Bk Bk Bk Bk Bk Bk	53 129 72 126 119 105 84 104 65 108 62 148 71 100 117 92 115	started about 1/4 mi. below Fish Lake
10/2 10/2 10/2 10/2 10/2 10/2 10/2 10/2	Fish Lake	West Fork Klickitat	Klickitat	10 10 10 10 10 10 10 10 10 10 10 10 10 1	Bk Bk Bk Bk Bk Bk Bk Bk Bk Bk Bk Bk Bk B	53 129 72 126 119 105 84 104 65 108 62 148 71 100 117 92 115 67	started about 1/4 mi. below Fish Lake
10/2 10/2 10/2 10/2 10/2 10/2 10/2 10/2	Fish Lake	West Fork Klickitat	Klickitat	10 10 10 10 10 10 10 10 10 10 10 10 10 1	Bk Bk Bk Bk Bk Bk Bk Bk Bk Bk Bk Bk Bk	53 129 72 126 119 105 84 104 65 108 62 148 71 100 117 92 115 67 88	started about 1/4 mi. below Fish Lake
10/2 10/2 10/2 10/2 10/2 10/2 10/2 10/2	Fish Lake	West Fork Klickitat	Klickitat	10 10 10 10 10 10 10 10 10 10 10 10 10 1	Bk Bk Bk Bk Bk Bk Bk Bk Bk Bk Bk Bk	53 129 72 126 119 105 84 104 65 108 62 148 71 100 117 92 115 67 88	started about 1/4 mi. below Fish Lake
10/2 10/2 10/2 10/2 10/2 10/2 10/2 10/2	Fish Lake	West Fork Klickitat	Klickitat	10 10 10 10 10 10 10 10 10 10 10 10 10 1	Bk Bk Bk Bk Bk Bk Bk Bk Bk Bk Bk Bk Bk	53 129 72 126 119 105 84 104 65 108 62 148 71 100 117 92 115 67 88	started about 1/4 mi. below Fish Lake
10/2 10/2 10/2 10/2 10/2 10/2 10/2 10/2	Fish Lake	West Fork Klickitat	Klickitat	10 10 10 10 10 10 10 10 10 10 10 10 10 1	Bk Bk Bk Bk Bk Bk Bk Bk Bk Bk Bk Bk Bk B	53 129 72 126 119 105 84 104 65 108 62 148 71 100 117 92 115 67 88 62 67	started about 1/4 mi. below Fish Lake
10/2 10/2 10/2 10/2 10/2 10/2 10/2 10/2	Fish Lake	West Fork Klickitat	Klickitat	10 10 10 10 10 10 10 10 10 10 10 10 10 1	BK BK BK <	53 129 72 126 119 105 84 104 65 108 62 148 71 100 117 92 115 67 88 62 67 64	started about 1/4 mi. below Fish Lake
10/2 10/2 10/2 10/2 10/2 10/2 10/2 10/2	Fish Lake	West Fork Klickitat	Klickitat	10 10 10 10 10 10 10 10 10 10 10 10 10 1	BK BK BK <	53 129 72 126 119 105 84 104 65 108 62 148 71 100 117 92 115 67 88 62 67 64 117	started about 1/4 mi. below Fish Lake
10/2 10/2 10/2 10/2 10/2 10/2 10/2 10/2	Fish Lake	West Fork Klickitat	Klickitat	10 10 10 10 10 10 10 10 10 10 10 10 10 1	BK	53 129 72 126 119 105 84 104 65 108 62 148 71 100 117 92 115 67 88 62 67 64 117	started about 1/4 mi. below Fish Lake
10/2 10/2 10/2 10/2 10/2 10/2 10/2 10/2	Fish Lake	West Fork Klickitat	Klickitat	10 10 10 10 10 10 10 10 10 10 10 10 10 1	BK	53 129 72 126 119 105 84 104 65 108 62 148 71 100 117 92 115 67 88 62 67 64 117	started about 1/4 mi. below Fish Lake
10/2 10/2 10/2 10/2 10/2 10/2 10/2 10/2	Fish Lake	West Fork Klickitat	Klickitat	10 10 10 10 10 10 10 10 10 10 10 10 10 1	BK BK BK <	53 129 72 126 119 105 84 104 65 108 62 148 71 100 117 92 115 67 88 62 67 64 117	started about 1/4 mi. below Fish Lake
10/2 10/2 10/2 10/2 10/2 10/2 10/2 10/2	Fish Lake	West Fork Klickitat	Klickitat	10 10 10 10 10 10 10 10 10 10 10 10 10 1	BK BK	53 129 72 126 119 105 84 104 65 108 62 148 71 100 117 92 115 67 88 62 67 64 117 133 97 70	started about 1/4 mi. below Fish Lake
10/2 10/2 10/2 10/2 10/2 10/2 10/2 10/2	Fish Lake	West Fork Klickitat	Klickitat	10 10 10 10 10 10 10 10 10 10 10 10 10 1	BK BK BK <	53 129 72 126 119 105 84 104 65 108 62 148 71 100 117 92 115 67 64 117 133 97 70 104	started about 1/4 mi. below Fish Lake

Appendix C. Electroshock data from streams in the Klickitat and White Salmon river basins, 2001.

10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Bk	84	started about 1/4 mi. below Fish Lake
	Fish Lake	West Fork Klickitat	Klickitat		Bk		started about 1/4 mi. below Fish Lake
					_		
	Fish Lake	West Fork Klickitat	Klickitat				started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Bk	105	started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Bk	67	started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Bk	130	started about 1/4 mi. below Fish Lake
	Fish Lake	West Fork Klickitat	Klickitat		Bk		started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Bk	158	started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Bk	114	started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Bk	112	started about 1/4 mi. below Fish Lake
	Fish Lake		Klickitat		_		
		West Fork Klickitat			Bk		started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Bk	57	started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Bk	117	started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Bk	162	started about 1/4 mi. below Fish Lake
					_		
	Fish Lake	West Fork Klickitat	Klickitat		Bk		started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Bk	74	started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Bk	116	started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Bk	101	started about 1/4 mi. below Fish Lake
					Bk		
	Fish Lake	West Fork Klickitat	Klickitat				started about 1/4 mi. below Fish Lake
	Fish Lake	West Fork Klickitat	Klickitat		Bk	64	started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Bk	64	started about 1/4 mi. below Fish Lake
	Fish Lake	West Fork Klickitat	Klickitat	10	Bk	67	started about 1/4 mi. below Fish Lake
	Fish Lake		Klickitat		Bk		started about 1/4 mi. below Fish Lake
		West Fork Klickitat		_	-		
	Fish Lake	West Fork Klickitat	Klickitat		Bk		started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Bk	164	started about 1/4 mi. below Fish Lake
	Fish Lake	West Fork Klickitat	Klickitat	10	Bk		started about 1/4 mi. below Fish Lake
	Fish Lake			_	Bk		
		West Fork Klickitat	Klickitat				started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Bk	64	started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Bk	117	started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Bk	128	started about 1/4 mi. below Fish Lake
					_		
	Fish Lake	West Fork Klickitat	Klickitat		Bk		started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Bk	94	started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Bk	85	started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Bk	127	started about 1/4 mi. below Fish Lake
					Bk		
	Fish Lake	West Fork Klickitat	Klickitat		_		
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Bk	120	started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Bk	122	started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Bk	78	started about 1/4 mi. below Fish Lake
	Fish Lake	West Fork Klickitat	Klickitat		Bk		started about 1/4 mi. below Fish Lake
	Fish Lake	West Fork Klickitat	Klickitat		Bk		started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Bk	67	started about 1/4 mi. below Fish Lake
10/2	Fish Lake	West Fork Klickitat	Klickitat	10	Bk	105	started about 1/4 mi. below Fish Lake
	Fish Lake	West Fork Klickitat	Klickitat		Bk		
				101	אט	110	
	Fish Lake			4.0			started about 1/4 mi. below Fish Lake
10/2	Figh Lake	West Fork Klickitat			Bk		started about 1/4 mi. below Fish Lake
40/0	risii Lake	West Fork Klickitat West Fork Klickitat		10	Bk		
10/2	Fish Lake	West Fork Klickitat		10	Bk	75	started about 1/4 mi. below Fish Lake
	Fish Lake	West Fork Klickitat West Fork Klickitat	Klickitat Klickitat	10 10	Bk Bk	75 112	started about 1/4 mi. below Fish Lake started about 1/4 mi. below Fish Lake started about 1/4 mi. below Fish Lake
10/2	Fish Lake Fish Lake	West Fork Klickitat West Fork Klickitat West Fork Klickitat	Klickitat Klickitat Klickitat	10 10 10	Bk Bk Bk	75 112 147	started about 1/4 mi. below Fish Lake started about 1/4 mi. below Fish Lake started about 1/4 mi. below Fish Lake started about 1/4 mi. below Fish Lake
10/2 10/2	Fish Lake Fish Lake Fish Lake	West Fork Klickitat West Fork Klickitat West Fork Klickitat West Fork Klickitat	Klickitat Klickitat Klickitat Klickitat	10 10 10 10	Bk Bk Bk Bk	75 112 147 174	started about 1/4 mi. below Fish Lake
10/2 10/2 10/2	Fish Lake Fish Lake Fish Lake Fish Lake	West Fork Klickitat West Fork Klickitat West Fork Klickitat West Fork Klickitat West Fork Klickitat	Klickitat Klickitat Klickitat Klickitat Klickitat Klickitat	10 10 10 10 10	Bk Bk Bk Bk	75 112 147 174 117	started about 1/4 mi. below Fish Lake
10/2 10/2 10/2	Fish Lake Fish Lake Fish Lake	West Fork Klickitat West Fork Klickitat West Fork Klickitat West Fork Klickitat West Fork Klickitat	Klickitat Klickitat Klickitat Klickitat	10 10 10 10 10	Bk Bk Bk Bk	75 112 147 174 117	started about 1/4 mi. below Fish Lake
10/2 10/2 10/2 10/2	Fish Lake Fish Lake Fish Lake Fish Lake Fish Lake	West Fork Klickitat	Klickitat Klickitat Klickitat Klickitat Klickitat Klickitat Klickitat Klickitat	10 10 10 10 10 10	Bk Bk Bk Bk Bk Bk	75 112 147 174 117 97	started about 1/4 mi. below Fish Lake
10/2 10/2 10/2 10/2 10/2	Fish Lake	West Fork Klickitat	Klickitat Klickitat Klickitat Klickitat Klickitat Klickitat Klickitat Klickitat Klickitat	10 10 10 10 10 10	Bk Bk Bk Bk Bk Bk	75 112 147 174 117 97 57	started about 1/4 mi. below Fish Lake
10/2 10/2 10/2 10/2 10/2 10/2	Fish Lake	West Fork Klickitat	Klickitat	10 10 10 10 10 10 10	Bk Bk Bk Bk Bk Bk	75 112 147 174 117 97 57 111	started about 1/4 mi. below Fish Lake
10/2 10/2 10/2 10/2 10/2 10/2 10/2	Fish Lake	West Fork Klickitat	Klickitat	10 10 10 10 10 10 10 10	Bk Bk Bk Bk Bk Bk Bk	75 112 147 174 117 97 57 111 124	started about 1/4 mi. below Fish Lake
10/2 10/2 10/2 10/2 10/2 10/2 10/2	Fish Lake	West Fork Klickitat	Klickitat	10 10 10 10 10 10 10 10	Bk Bk Bk Bk Bk Bk	75 112 147 174 117 97 57 111 124	started about 1/4 mi. below Fish Lake
10/2 10/2 10/2 10/2 10/2 10/2 10/2 10/2	Fish Lake	West Fork Klickitat	Klickitat	10 10 10 10 10 10 10 10 10 10	Bk Bk Bk Bk Bk Bk Bk Bk	75 112 147 174 117 97 57 111 124 111	started about 1/4 mi. below Fish Lake
10/2 10/2 10/2 10/2 10/2 10/2 10/2 10/2	Fish Lake	West Fork Klickitat	Klickitat	10 10 10 10 10 10 10 10 10 10	Bk Bk Bk Bk Bk Bk Bk Bk Bk	75 112 147 174 117 97 57 111 124 111 143	started about 1/4 mi. below Fish Lake
10/2 10/2 10/2 10/2 10/2 10/2 10/2 10/2	Fish Lake	West Fork Klickitat	Klickitat	10 10 10 10 10 10 10 10 10 10 10	Bk	75 112 147 174 117 97 57 111 124 111 143 78	started about 1/4 mi. below Fish Lake
10/2 10/2 10/2 10/2 10/2 10/2 10/2 10/2	Fish Lake	West Fork Klickitat	Klickitat	10 10 10 10 10 10 10 10 10 10 10 10	Bk	75 112 147 174 117 97 57 111 124 111 143 78 62	started about 1/4 mi. below Fish Lake
10/2 10/2 10/2 10/2 10/2 10/2 10/2 10/2	Fish Lake	West Fork Klickitat	Klickitat	10 10 10 10 10 10 10 10 10 10 10	Bk	75 112 147 174 117 97 57 111 124 111 143 78	started about 1/4 mi. below Fish Lake
10/2 10/2 10/2 10/2 10/2 10/2 10/2 10/2	Fish Lake	West Fork Klickitat	Klickitat	10 10 10 10 10 10 10 10 10 10 10 10 10	Bk B	75 112 147 174 117 97 57 111 124 111 143 78 62 61	started about 1/4 mi. below Fish Lake
10/2 10/2 10/2 10/2 10/2 10/2 10/2 10/2	Fish Lake	West Fork Klickitat	Klickitat	10 10 10 10 10 10 10 10 10 10 10 10 10 1	Bk B	75 112 147 174 117 97 57 111 124 111 143 78 62 61 65	started about 1/4 mi. below Fish Lake
10/2 10/2 10/2 10/2 10/2 10/2 10/2 10/2	Fish Lake	West Fork Klickitat	Klickitat	10 10 10 10 10 10 10 10 10 10 10 10 10 1	Bk B	75 112 147 174 117 97 57 111 124 111 143 78 62 61 65 150	started about 1/4 mi. below Fish Lake
10/2 10/2 10/2 10/2 10/2 10/2 10/2 10/2	Fish Lake	West Fork Klickitat Klickitat	Klickitat	10 10 10 10 10 10 10 10 10 10 10 10 10 1	Bk B	75 112 147 174 117 97 57 111 124 111 143 78 62 61 65	started about 1/4 mi. below Fish Lake
10/2 10/2 10/2 10/2 10/2 10/2 10/2 10/2	Fish Lake	West Fork Klickitat	Klickitat	10 10 10 10 10 10 10 10 10 10 10 10 10 1	Bk B	75 112 147 174 117 97 57 111 124 111 143 78 62 61 65 150	started about 1/4 mi. below Fish Lake
10/2 10/2 10/2 10/2 10/2 10/2 10/2 10/2	Fish Lake Cedar Creek Cedar Creek	West Fork Klickitat Kest Fork Klickitat Kest Fork Klickitat Kest Fork Klickitat Kilckitat	Klickitat	10 10 10 10 10 10 10 10 10 10 10 10 10 1	Bk B	75 112 147 174 117 97 57 111 124 111 143 78 62 61 65 150 51 46	started about 1/4 mi. below Fish Lake
10/2 10/2 10/2 10/2 10/2 10/2 10/2 10/2	Fish Lake Cedar Creek Cedar Creek Cedar Creek	West Fork Klickitat Kest Fork Klickitat Kest Fork Klickitat Kest Fork Klickitat Kest Fork Klickitat Klickitat Klickitat	Klickitat	10 10 10 10 10 10 10 10 10 10 10 10 10 1	Bk B	75 112 147 174 117 97 57 111 124 111 143 78 62 61 65 150 51 46 44	started about 1/4 mi. below Fish Lake
10/2 10/2 10/2 10/2 10/2 10/2 10/2 10/2	Fish Lake Cedar Creek Cedar Creek Cedar Creek	West Fork Klickitat Kest Fork Klickitat Kest Fork Klickitat Kest Fork Klickitat Kest Fork Klickitat Kilckitat Klickitat Klickitat	Klickitat	10 10 10 10 10 10 10 10 10 10 10 10 10 1	Bk B	75 112 147 174 117 97 57 111 124 111 143 78 62 61 65 150 51 46 44 49	started about 1/4 mi. below Fish Lake
10/2 10/2 10/2 10/2 10/2 10/2 10/2 10/2	Fish Lake Fish Cake Fish Lake Fish Cake Cedar Creek Cedar Creek Cedar Creek Cedar Creek	West Fork Klickitat Kest Fork Klickitat	Klickitat	10 10 10 10 10 10 10 10 10 10 10 10 10 1	Bk Bk Bk Bk Bk Bk Bk Bk	75 112 147 174 117 97 57 111 124 111 143 78 62 61 65 150 51 46 44 49 79	started about 1/4 mi. below Fish Lake
10/2 10/2 10/2 10/2 10/2 10/2 10/2 10/2	Fish Lake Cedar Creek Cedar Creek Cedar Creek	West Fork Klickitat Kest Fork Klickitat Kest Fork Klickitat Kest Fork Klickitat Kest Fork Klickitat Kilckitat Klickitat Klickitat	Klickitat	10 10 10 10 10 10 10 10 10 10 10 10 10 1	Bk Bk Bk Bk Bk Bk Bk Bk	75 112 147 174 117 97 57 111 124 111 143 78 62 61 65 150 51 46 44 49	started about 1/4 mi. below Fish Lake
10/2 10/2 10/2 10/2 10/2 10/2 10/2 10/2	Fish Lake Fish Cake Fish Lake Fish Cake Cedar Creek Cedar Creek Cedar Creek Cedar Creek	West Fork Klickitat Kest Fork Klickitat	Klickitat	10 10 10 10 10 10 10 10 10 10 10 10 10 1	Bk Bk Bk Bk Bk Bk Bk Bk	75 112 147 174 117 97 57 111 124 111 143 78 62 61 65 150 51 46 44 49 79	started about 1/4 mi. below Fish Lake
10/2 10/2 10/2 10/2 10/2 10/2 10/2 10/2	Fish Lake Fish Cake Fish Lake Fish Cake Cedar Creek	West Fork Klickitat Kest Fork Klickitat Kest Fork Klickitat	Klickitat	10 10 10 10 10 10 10 10 10 10 10 10 10 1	Bk Bk Bk Bk Bk Bk Bk Bk	75 112 147 174 117 97 57 111 124 111 143 78 62 61 65 150 51 46 44 49 79 75 51	started about 1/4 mi. below Fish Lake
10/2 10/2 10/2 10/2 10/2 10/2 10/2 10/2	Fish Lake Fish Cake Fish Lake Fish Cake Cedar Creek	West Fork Klickitat Kest Fork Klickitat	Klickitat	10 10 10 10 10 10 10 10 10 10 10 10 10 1	Bk Bk Bk Bk Bk Bk Bk Bk	75 112 147 174 117 97 57 111 124 111 143 78 62 61 65 51 150 44 49 79 75 51 49	started about 1/4 mi. below Fish Lake

Appendix C. Electroshock data from streams in the Klickitat and White Salmon river basins, 2001.

10/2	Cedar Creek	Klickitat	Klickitat	9.8	Rb	45	creek on east side of Klickitat River
10/2	Cedar Creek	Klickitat	Klickitat	9.8	Rb	42	creek on east side of Klickitat River
	Cedar Creek	Klickitat	Klickitat		Rb		creek on east side of Klickitat River
	Cedar Creek	Klickitat	Klickitat	9.8			creek on east side of Klickitat River
	Cedar Creek	Klickitat	Klickitat	9.8			creek on east side of Klickitat River
	Cedar Creek	Klickitat	Klickitat			62	creek on east side of Klickitat River
10/2	Cedar Creek	Klickitat	Klickitat	9.8	Rb	56	creek on east side of Klickitat River
10/2	Cedar Creek	Klickitat	Klickitat	9.8	Rb	120	creek on east side of Klickitat River
10/2	Cedar Creek	Klickitat	Klickitat	9.8	Rb	90	creek on east side of Klickitat River
10/2	Cedar Creek	Klickitat	Klickitat	9.8	Rb	84	creek on east side of Klickitat River
10/2	Cedar Creek	Klickitat	Klickitat	9.8	Rb	122	creek on east side of Klickitat River
	Cedar Creek	Klickitat	Klickitat		Rb	39	creek on east side of Klickitat River
	Cedar Creek	Klickitat	Klickitat	9.8			creek on east side of Klickitat River
			Klickitat	9.8			
	Cedar Creek	Klickitat			-		creek on east side of Klickitat River
	Cedar Creek	Klickitat	Klickitat			36	
	Cedar Creek	Klickitat	Klickitat		Rb	38	creek on east side of Klickitat River
10/2	Cedar Creek	Klickitat	Klickitat		Rb	45	creek on east side of Klickitat River
10/2	Cedar Creek	Klickitat	Klickitat	9.8	Rb	54	creek on east side of Klickitat River
10/2	Cedar Creek	Klickitat	Klickitat	9.8	Rb	78	creek on east side of Klickitat River
10/2	Cedar Creek	Klickitat	Klickitat	9.8	Rb	78	creek on east side of Klickitat River
	Cedar Creek	Klickitat	Klickitat	9.8		68	
,	Cedar Creek	Klickitat	Klickitat	9.8		72	creek on east side of Klickitat River
	Cedar Creek	Klickitat	Klickitat		Rb		creek on east side of Klickitat River
						78	
	Cedar Creek	Klickitat	Klickitat	9.8		42	
	Cedar Creek	Klickitat	Klickitat		Rb		creek on east side of Klickitat River
	Cedar Creek	Klickitat	Klickitat	9.8		142	creek on east side of Klickitat River
10/2	Cedar Creek	Klickitat	Klickitat	9.8	Rb	74	creek on east side of Klickitat River
10/2	Cedar Creek	Klickitat	Klickitat	9.8	Rb	155	creek on east side of Klickitat River
,	Cedar Creek	Klickitat	Klickitat	9.8	Rb	131	creek on east side of Klickitat River
	Cedar Creek	Klickitat	Klickitat	9.8		85	creek on east side of Klickitat River
	Cedar Creek	Klickitat	Klickitat	9.8		80	creek on east side of Klickitat River
	Cedar Creek	Klickitat	Klickitat	9.8		60	
	Unnamed #1	Two Lakes	Klickitat	4.5			NW of NW Section 19
	Unnamed #1	Two Lakes	Klickitat	4.5	Bk		NW of NW Section 19
10/3	Unnamed #1	Two Lakes	Klickitat	4.5	Bk	80	NW of NW Section 19
10/3	Unnamed #1	Two Lakes	Klickitat	4.5	Bk	75	NW of NW Section 19
10/3	Unnamed #1	Two Lakes	Klickitat	4.5	Bk	82	NW of NW Section 19
10/3	Unnamed #1	Two Lakes	Klickitat	4.5	Bk	108	NW of NW Section 19
	Unnamed #1	Two Lakes	Klickitat	4.5			NW of NW Section 19
	Unnamed #1	Two Lakes	Klickitat		Bk		NW of NW Section 19
	Unnamed #1		Klickitat	4.5			NW of NW Section 19
		Two Lakes					
	Unnamed #1	Two Lakes	Klickitat	4.5			NW of NW Section 19
10/3	Unnamed #1	Two Lakes	Klickitat	4.5			NW of NW Section 19
10/3	Unnamed #1	Two Lakes	Klickitat	4.5	Bk	115	NW of NW Section 19
10/3	Unnamed #1	Two Lakes	Klickitat	4.5	Bk	126	NW of NW Section 19
10/3	Unnamed #1	Two Lakes	Klickitat	4.5	Bk	150	NW of NW Section 19
	Unnamed #2	Two Lakes	Klickitat	4.5		91	
	Unnamed #2	Two Lakes	Klickitat		Bk	138	
	Big Muddy	Klickitat	Klickitat	4.5	אט	130	no fish, shocked at Road 255 bridge
					D۲	92	no non, shocked at Noad 200 blidge
	Summit	Klickitat	Klickitat	4.5			
	Summit	Klickitat	Klickitat	4.5		46	
	Summit	Klickitat	Klickitat	4.5		54	
	Summit	Klickitat	Klickitat	4.5		47	
10/10	Summit	Klickitat	Klickitat	4.5	Rb	111	
	Summit	Klickitat	Klickitat			46	
	Summit	Klickitat	Klickitat	4.5		105	
	Summit	Klickitat	Klickitat	4.5		100	
	Summit	Klickitat	Klickitat	4.5		81	
	Summit	Klickitat	Klickitat		Rb	89	
	Summit	Klickitat	Klickitat	4.5		110	
10/10	Summit	Klickitat	Klickitat	4.5		112	
	Summit	Klickitat	Klickitat	4.5	Rb	44	
	Summit	Klickitat	Klickitat	4.5		81	
	Summit	Klickitat	Klickitat	4.5		125	
	Summit	Klickitat	Klickitat		Rb	83	
	Summit	Klickitat	Klickitat		Rb	108	
	Summit	Klickitat	Klickitat		Rb	94	
	Summit	Klickitat	Klickitat	4.5		86	
	Summit	Klickitat	Klickitat	4.5	Bk	122	1

Appendix C. Electroshock data from streams in the Klickitat and White Salmon river basins, 2001.

10/10	Summit	Klickitat	Klickitat	4.5	Bk	115	
10/10	Summit	Klickitat	Klickitat	4.5	Bk	82	
10/10	Summit	Klickitat	Klickitat	4.5	Bk	70	
10/10	Summit	Klickitat	Klickitat		Bk	71	
	Summit	Klickitat	Klickitat		Bk	64	
	Summit	Klickitat	Klickitat		Bk	66	
	Summit	Klickitat	Klickitat		Bk	74	
	Summit	Klickitat	Klickitat		Bk	73	
	Summit	Klickitat	Klickitat		Bk	135	
	Summit	Klickitat	Klickitat		Bk	116	
10/10	Summit	Klickitat	Klickitat	4.5	Bk	72	
10/10	Summit	Klickitat	Klickitat	4.5	Bk	72	
10/10	Summit	Klickitat	Klickitat	4.5	Bk	72	
10/10	Summit	Klickitat	Klickitat		Bk	70	
-	Summit	Klickitat	Klickitat		Bk	74	
	Summit	Klickitat	Klickitat		Bk	64	
	Summit	Klickitat	Klickitat		Bk	67	
-							
	Summit	Klickitat	Klickitat		Bk	59	
	Summit	Klickitat	Klickitat		Bk	74	
-	Summit	Klickitat	Klickitat		Bk	62	
	Summit	Klickitat	Klickitat		Bk	109	
10/10	Summit	Klickitat	Klickitat	4.5	Bk	64	
-	Summit	Klickitat	Klickitat		Bk	145	
-	Summit	Klickitat	Klickitat		Bk	112	
	Summit	Klickitat	Klickitat		Bk	67	
						70	
	Summit	Klickitat	Klickitat		Bk		
	Summit	Klickitat	Klickitat		Bk	68	
	Summit	Klickitat	Klickitat		Bk	108	
10/10	Summit	Klickitat	Klickitat		Bk	64	
10/10	Summit	Klickitat	Klickitat	4.5	Bk	64	
10/10	Summit	Klickitat	Klickitat	4.5	Bk	66	
-	Summit	Klickitat	Klickitat		Bk	68	
	Summit	Klickitat	Klickitat		Bk	106	
	Summit	Klickitat	Klickitat		Bk	117	
		Klickitat	Klickitat		Bk	62	
	Summit						
	Summit	Klickitat	Klickitat		Bk	72	
-	Summit	Klickitat	Klickitat		Bk	75	
10/10	Summit	Klickitat	Klickitat		Bk	80	
	Summit	Klickitat	Klickitat	4.5	Bk	67	
10/10	Summit	Klickitat	Klickitat	4.5	Bk	67	
10/10	Summit	Klickitat	Klickitat	4.5	Bk	112	
	Summit	Klickitat	Klickitat		Bk	72	
	Summit	Klickitat	Klickitat		Bk	74	
-	Summit	Klickitat	Klickitat		Bk	70	
					Bk	64	
-	Summit	Klickitat	Klickitat				
-	Summit	Klickitat	Klickitat	4.5		74	
	Summit	Klickitat	Klickitat	4.5		70	
-	Summit	Klickitat	Klickitat	4.5		122	
10/10	Summit	Klickitat	Klickitat		Bk	112	
10/10	Summit	Klickitat	Klickitat		Bk	104	
10/10	Summit	Klickitat	Klickitat	4.5	Bk	72	
	Summit	Klickitat	Klickitat		Bk	64	
-	Summit	Klickitat	Klickitat		Bk	72	
	Summit	Klickitat	Klickitat		Bk	107	
	Summit	Klickitat	Klickitat		Bk	64	
-	Summit	Klickitat	Klickitat	4.5		68	
	Summit	Klickitat	Klickitat		Bk	67	
	Summit	Klickitat	Klickitat	4.5		77	
10/10	Summit	Klickitat	Klickitat	4.5	Bk	83	
10/10	Summit	Klickitat	Klickitat	4.5	Bk	135	
-	Summit	Klickitat	Klickitat		Bk	122	
-	Summit	Klickitat	Klickitat	4.5		71	
-	Summit	Klickitat	Klickitat		Bk	68	
	Summit	Klickitat	Klickitat		Bk	72	
-	Summit	Klickitat	Klickitat	4.5		131	
-	Summit	Klickitat	Klickitat		Bk	66	
10/10	Summit	Klickitat	Klickitat	4.5	Bk	112	
10/10	Summit	Klickitat	Klickitat	4.5	Bk	76	
10/10	Summit	Klickitat	Klickitat	4.5	Bk	122	

Appendix C. Electroshock data from streams in the Klickitat and White Salmon river basins, 2001.

		F					
10/10	Summit	Klickitat	Klickitat	4.5	Bk	99	
10/10	Summit	Klickitat	Klickitat	4.5	Bk	120	
10/10	Summit	Klickitat	Klickitat	4.5	Bk	76	
10/10	Summit	Klickitat	Klickitat		Bk	67	
	Summit	Klickitat	Klickitat		Bk	113	
	Summit	Klickitat	Klickitat		Bk	78	
		Klickitat	Klickitat		Bk	130	
	Summit						
	Summit	Klickitat	Klickitat		Bk	64	
	Summit	Klickitat	Klickitat		Bk	133	
	Summit	Klickitat	Klickitat		Bk	70	
10/10	Summit	Klickitat	Klickitat	4.5	Bk	115	
10/10	Summit	Klickitat	Klickitat	4.5	Bk	107	
	Summit	Klickitat	Klickitat		Bk	74	
	Summit	Klickitat	Klickitat		Bk	66	
	Summit	Klickitat	Klickitat		Bk	63	
	Summit	Klickitat	Klickitat		Bk	68	
	Summit	Klickitat	Klickitat		Bk	76	
	Summit	Klickitat	Klickitat		Bk	151	
	Summit	Klickitat	Klickitat		Bk	154	
10/17	Cold Creek	Fish Lake Stream	Klickitat	4.2	Rb	105	
10/17	Cold Creek	Fish Lake Stream	Klickitat	4.2	Rb	125	
	Cold Creek	Fish Lake Stream	Klickitat		Rb	120	
	Cold Creek	Fish Lake Stream	Klickitat		Rb	120	
	Cold Creek	Fish Lake Stream	Klickitat		Rb	107	
	Cold Creek	Fish Lake Stream	Klickitat		Rb	125	
	Cold Creek	Fish Lake Stream	Klickitat		Rb	135	
	Cold Creek	Fish Lake Stream	Klickitat		Bk	140	
	Cold Creek	Fish Lake Stream	Klickitat		Bk	75	
10/17	Cold Creek	Fish Lake Stream	Klickitat	4.2	Bk	50	
	Cold Creek	Fish Lake Stream	Klickitat		Bk	55	
	Cold Creek	Fish Lake Stream	Klickitat		Bk	60	
	Cold Creek	Fish Lake Stream	Klickitat		Bk	62	
	Cold Creek	Fish Lake Stream	Klickitat		Bk	65	
	Cold Creek	Fish Lake Stream	Klickitat		Bk	58	
	Cold Creek	Fish Lake Stream	Klickitat		Bk	52	
	Cold Creek	Fish Lake Stream	Klickitat		Bk	52	
10/17	Cold Creek	Fish Lake Stream	Klickitat	4.2	Bk	105	
10/17	Cold Creek	Fish Lake Stream	Klickitat	4.2	Bk	55	
10/17	Cold Creek	Fish Lake Stream	Klickitat	4.2	Bk	98	
	Cold Creek	Fish Lake Stream	Klickitat		Bk	55	
	Cold Creek	Fish Lake Stream	Klickitat		Bk	58	
	Cold Creek	Fish Lake Stream			Bk	124	
		Fish Lake Stream	Klickitat				
	Cold Creek	Fish Lake Stream	Klickitat		Bk	56	
	Cold Creek		Klickitat		Bk	124	
	Cold Creek	Fish Lake Stream	Klickitat	4.2	Bk	127	
10/17	Cold Creek	Fish Lake Stream	Klickitat	4.2	Bk	62	
	Cold Creek	Fish Lake Stream	Klickitat	4.2		44	
	Cold Creek	Fish Lake Stream	Klickitat	4.2		44	
	Cold Creek	Fish Lake Stream	Klickitat	4.2		90	
	Cold Creek	Fish Lake Stream	Klickitat		Bk	60	
	Cold Creek	Fish Lake Stream	Klickitat	4.2		55	
	Cold Creek	Fish Lake Stream	Klickitat		Bk	54	
	Cold Creek	Fish Lake Stream	Klickitat	4.2		104	
	Cold Creek	Fish Lake Stream	Klickitat		Bk	148	
10/17	Cold Creek	Fish Lake Stream	Klickitat	4.2	Bk	50	
	Cold Creek	Fish Lake Stream	Klickitat	4.2		135	
	Cold Creek	Fish Lake Stream	Klickitat	4.2		60	
	Cold Creek	Fish Lake Stream	Klickitat		Bk	65	
						54	
	Cold Creek	Fish Lake Stream	Klickitat	4.2			
	Cold Creek	Fish Lake Stream	Klickitat	4.2		60	
	Cold Creek	Fish Lake Stream	Klickitat		Bk	54	
10/17	Cold Creek	Fish Lake Stream	Klickitat	4.2	Bk	55	
	Cold Creek	Fish Lake Stream	Klickitat	4.2	Bk	85	
10/17	Cold Creek	Fish Lake Stream	Klickitat	4.2	Bk	60	
	Cold Creek	Fish Lake Stream	Klickitat	4.2		68	
	Cold Creek	Fish Lake Stream	Klickitat	4.2		110	
	Cold Creek			4.2		130	
		Fish Lake Stream	Klickitat				
	Cold Creek	Fish Lake Stream	Klickitat	4.2		95	
10/17	Cold Creek	Fish Lake Stream	Klickitat	4.2	Вk	62	

Appendix C. Electroshock data from streams in the Klickitat and White Salmon river basins, 2001.

1017 Cold Creek	II.							
10171 Cold Creek	10/17	Cold Creek	Fish Lake Stream	Klickitat	4.2	Bk	63	
10171 Cold Creek	10/17	Cold Creek	Fish Lake Stream	Klickitat	4.2	Bk	148	
1017 Cold Creek	10/17	Cold Creek	Fish Lake Stream	Klickitat	4.2	Bk	138	
10171 Cold Creek	10/17	Cold Creek	Fish Lake Stream	Klickitat	4.2	Bk	133	
10171 Cold Creek	10/17	Cold Creek	Fish Lake Stream		4.2	Bk		
10171 Cold Creek							155	
10171	10/17	Cold Creek	Fish Lake Stream	Klickitat	4.2	Bk	158	
1017 Cold Creek							155	
10/25 East Prong	10/17	Cold Creek	Fish Lake Stream	Klickitat			156	
10/25 East Prong								
10/29 East Prong								
10/22 East Prong	10/29	East Prong	Little Klickitat				101	Hwy 97 at Brooks Memorial Park
10/22 East Prong								
10/22 East Prong	10/29	East Prong	Little Klickitat	Klickitat			96	Hwy 97 at Brooks Memorial Park
1922 East Prong								
10/22 East Prong			Little Klickitat	Klickitat			156	Hwy 97 at Brooks Memorial Park
10/22 East Prong								
10/22 East Prong	10/29	East Prong	Little Klickitat	Klickitat			165	Hwy 97 at Brooks Memorial Park
10/29 East Prong Little Klickitat Klicklatt 7,2 Rb 130 Hwy 97 at Brooks Memorial Park 10/29 East Prong Little Klickitat Klicklatt 7,2 Rb 130 Hwy 97 at Brooks Memorial Park 10/29 East Prong Little Klickitat Klicklatt 7,2 Rb 181 Hwy 97 at Brooks Memorial Park 10/29 East Prong Little Klicklatt Klicklatt 7,2 Rb 185 Hwy 97 at Brooks Memorial Park 10/29 East Prong Little Klicklatt Klicklatt 7,2 Rb 185 Hwy 97 at Brooks Memorial Park 10/29 East Prong Little Klicklatt Klicklatt 7,2 Rb 195 Hwy 97 at Brooks Memorial Park 10/29 East Prong Little Klicklatt Klicklatt 7,2 Rb 195 Hwy 97 at Brooks Memorial Park 10/29 East Prong Little Klicklatt Klicklatt 7,2 Rb 195 Hwy 97 at Brooks Memorial Park 10/29 East Prong Little Klicklatt Klicklatt 7,2 Rb 195 Hwy 97 at Brooks Memorial Park 10/29 East Prong Little Klicklatt Klicklatt 7,2 Rb 195 Hwy 97 at Brooks Memorial Park 10/29 East Prong Little Klicklatt Klicklatt 7,2 Rb 195 Hwy 97 at Brooks Memorial Park 10/29 East Prong Little Klicklatt Klicklatt 7,2 Rb 195 Hwy 97 at Brooks Memorial Park 10/29 East Prong Little Klicklatt Klicklatt 7,2 Rb 195 Hwy 97 at Brooks Memorial Park 10/29 Butler Little Klicklatt Klicklatt 7,2 Rb 195 Hwy 97 at Brooks Memorial Park 10/29 Butler Little Klicklatt Klicklatt 7,2 Rb 195 Lww 97 at Brooks Memorial Park 10/29 Butler Little Klicklatt Klicklatt 7,2 Rb 195 Lww 97 at Brooks Memorial Park 10/29 Butler Little Klicklatt Klicklatt 7,2 Rb 195 Lww 97 at Brooks Memorial Park 10/29 Butler Little Klicklatt Klicklatt 7,2 Rb 195 Lww 97 at Brooks Hemorial Park 10/29 Butler Little Klicklatt Klicklatt 7,2 Rb 195 Lww 97 at Brooks Hemorial Park 10/29 Butler Little Klicklatt Klicklatt 7,2 Rb 196 Lww 97 at Brooks Hemorial Park 10/29 Butler Little Klicklatt Klicklatt 7,2 Rb 196 Lww 97 at Brooks Hemorial Park 10/29 Butler Little Klicklatt Klicklatt 7,2 Rb 196 Lww 97 at Brooks Hemorial Park 10/29 Butler Little Klicklatt Klicklatt 7,2 Rb 196 Lww 97 at Brooks Hemorial Park 10/29 Butler Little Klicklatt Klicklatt 7,2 Rb 196 Lww 97 at Brooks Hemorial Park 10/29 Butler Little Klickl								
10/29 East Prong Little Klickitat Klickitat 7,2 Rb 193 Hwy 97 at Brooks Memorial Park 10/29 East Prong Little Klickitat Klickitat 7,2 Rb 142 Hwy 97 at Brooks Memorial Park 10/29 East Prong Little Klickitat Klickitat 7,2 Rb 163 Hwy 97 at Brooks Memorial Park 10/29 East Prong Little Klickitat Klickitat 7,2 Rb 100 Hwy 97 at Brooks Memorial Park 10/29 East Prong Little Klickitat Klickitat 7,2 Rb 100 Hwy 97 at Brooks Memorial Park 10/29 East Prong Little Klickitat Klickitat 7,2 Rb 100 Hwy 97 at Brooks Memorial Park 10/29 East Prong Little Klickitat Klickitat 7,2 Rb 90 Hwy 97 at Brooks Memorial Park 10/29 East Prong Little Klickitat Klickitat 7,2 Rb 93 Hwy 97 at Brooks Memorial Park 10/28 East Prong Little Klickitat Klickitat 7,2 Rb 93 Hwy 97 at Brooks Memorial Park 10/28 East Prong Little Klickitat Klickitat 7,2 Rb 193 Hwy 97 at Brooks Memorial Park 10/28 East Prong Little Klickitat Klickitat 7,2 Rb 193 Hwy 97 at Brooks Memorial Park 10/28 East Prong Little Klickitat Klickitat 7,2 Rb 193 Hwy 97 at Brooks Memorial Park 10/29 East Prong Little Klickitat Klickitat 7,2 Rb 193 Hwy 97 at Brooks Memorial Park 10/29 East Prong Little Klickitat Klickitat 7,2 Rb 193 Hwy 97 at Brooks Memorial Park 10/29 East Prong Little Klickitat Klickitat 7,2 Rb 193 Hwy 97 at Brooks Memorial Park 10/29 Butler Little Klickitat Klickitat 7,2 Rb 194 Hwy 97 at Brooks Memorial Park 10/29 Butler Little Klickitat Klickitat 7,2 Rb 195 Lower Butler Creek site just west of Hwy 97,4 sculpin and 43 dace 10/29 Butler Little Klickitat Klickitat 7,2 Rb 194 Lower Butler Creek site just west of Hwy 97,4 sculpin and 43 dace 10/29 Butler Little Klickitat Klickitat 7,2 Rb 194 Lower Butler Creek site just west of Hwy 97,4 sculpin and 43 dace 10/29 Butler Little Klickitat Klickitat 7,2 Rb 194 Lower Butler Creek site just west of Hwy 97,4 sculpin and 43 dace 10/29 Butler Little Klickitat Klickitat 7,2 Rb 194 Lower Butler Creek site just west of Hwy 97,4 sculpin and 43 dace 10/29 Butler Little Klickitat Klickitat 7,2 Rb 194 Lower Butler Creek site just west of Hwy								
10/29 East Prong Little Klickitatt Klickitatt 7,2 Rb 18 142 Hwy 97 at Brooks Memorial Park 10/29 East Prong Little Klickitatt Klickitat 7,2 Rb 18 16 Hwy 97 at Brooks Memorial Park 10/29 East Prong Little Klickitatt Klickitat 7,2 Rb 19 100 Hwy 97 at Brooks Memorial Park 10/29 East Prong Little Klickitatt Klickitat 7,2 Rb 90 Hwy 97 at Brooks Memorial Park 10/29 East Prong Little Klickitatt Klickitat 7,2 Rb 90 Hwy 97 at Brooks Memorial Park 10/29 East Prong Little Klickitatt Klickitat 7,2 Rb 90 Hwy 97 at Brooks Memorial Park 10/29 East Prong Little Klickitatt Klickitat 7,2 Rb 19 15 Hwy 97 at Brooks Memorial Park 10/29 East Prong Little Klickitatt Klickitat 7,2 Rb 19 15 Hwy 97 at Brooks Memorial Park 10/29 East Prong Little Klickitatt Klickitat 7,2 Rb 19 16 Hwy 97 at Brooks Memorial Park 10/29 East Prong Little Klickitatt Klickitat 7,2 Rb 19 16 Hwy 97 at Brooks Memorial Park 10/29 East Prong Little Klickitatt Klickitatt 7,2 Rb 19 16 Hwy 97 at Brooks Memorial Park 10/29 East Prong Little Klickitatt Klickitatt 7,2 Rb 19 16 Hwy 97 at Brooks Memorial Park 10/29 East Prong Little Klickitatt Klickitatt 7,2 Rb 19 16 Hwy 97 at Brooks Memorial Park 10/29 East Prong Little Klickitatt Klickitatt 7,2 Rb 19 16 Lower Butler Creek site just west of Hwy 97, 4 sculpin and 43 dace 10/29 East Prong Little Klickitatt Klickitat 7,2 Rb 19 10 Hwy 97 at Brooks Memorial Park 10/29 Butler Little Klickitatt Klickitat 7,2 Rb 19 10 Lower Butler Creek site just west of Hwy 97, 10/29 Butler Little Klickitatt Klickitat 7,2 Rb 19 10 Lower Butler Creek site just west of Hwy 97, 10/29 Butler Little Klickitatt Klickitat 7,2 Rb 19 10 Lower Butler Creek site just west of Hwy 97, 10/29 Butler Little Klickitatt Klickitat 7,2 Rb 19 10 Lower Butler Creek site just west of Hwy 97, 10/29 Butler Little Klickitatt Klickitat 7,2 Rb 19 10 Lower Butler Creek site just west of Hwy 97, 10/29 Butler Little Klickitatt Klickitat 7,2 Rb 19 10 Lower Butler Creek site just west of Hwy 97, 10/29 Butler Little Klickitatt Klickitat 7,2 Rb 19 10 Lower Butler Creek site just								
10/29 East Prong Little Klickitat Klickitat 7,2 Rb 100 Hwy 97 at Brooks Memorial Park 10/29 East Prong Little Klickitat Klickitat 7,2 Rb 100 Hwy 97 at Brooks Memorial Park 10/29 East Prong Little Klickitat Klickitat 7,2 Rb 100 Hwy 97 at Brooks Memorial Park 10/29 East Prong Little Klickitat Klickitat 7,2 Rb 90 Hwy 97 at Brooks Memorial Park 10/29 East Prong Little Klickitat Klickitat 7,2 Rb 93 Hwy 97 at Brooks Memorial Park 10/29 East Prong Little Klickitat Klickitat 7,2 Rb 115 Hwy 97 at Brooks Memorial Park 10/29 East Prong Little Klickitat Klickitat 7,2 Rb 138 Hwy 97 at Brooks Memorial Park 10/29 East Prong Little Klickitat Klickitat 7,2 Rb 138 Hwy 97 at Brooks Memorial Park 10/29 East Prong Little Klickitat Klickitat 7,2 Rb 180 Hwy 97 at Brooks Memorial Park 10/29 East Prong Little Klickitat Klickitat 7,2 Rb 38 Hwy 97 at Brooks Memorial Park 10/29 East Prong Little Klickitat Klickitat 7,2 Rb 38 Hwy 97 at Brooks Memorial Park 10/29 Butler Little Klickitat Klickitat 7,2 Rb 38 Hwy 97 at Brooks Memorial Park 10/29 Butler Little Klickitat Klickitat 7,2 Rb 1815 Lower Butler Creek site just west of Hwy 97, 4 sculpin and 43 dace 10/29 Butler Little Klickitat Klickitat 7,2 Rb 1815 Lower Butler Creek site just west of Hwy 97 at Brooks Memorial Park 10/29 Butler Little Klickitat Klickitat 7,2 Rb 1815 Lower Butler Creek site just west of Hwy 97 at Brooks Memorial Park 10/29 Butler Little Klickitat Klickitat 7,2 Rb 1912 Lower Butler Creek site just west of Hwy 97 at Brooks Memorial Park 10/29 Butler Little Klickitat Klickitat 7,2 Rb 1912 Lower Butler Creek site just west of Hwy 97 at Brooks Memorial Park 10/29 Butler Little Klickitat Klickitat 7,2 Rb 1912 Lower Butler Creek site just west of Hwy 97 at Brooks Memorial Park 10/29 Butler Little Klickitat Klickitat 7,2 Rb 1912 Lower Butler Creek site just west of Hwy 97 at Brooks Memorial Park 10/29 Butler Little Klickitat Klickitat 7,2 Rb 1912 Lower Butler Creek site just west of Hwy 97 at Brooks Memorial Park 10/29 Butler Little Klickitat Klickitat 7,2 Rb 1912 Lower Butler								
10/29 East Prong Little Klickitat Klickitat 7.2 Rb 90 Hwy 97 at Brooks Memorial Park 10/29 East Prong Little Klickitat Klickitat 7.2 Rb 97 Hwy 97 at Brooks Memorial Park 10/29 East Prong Little Klickitat Klickitat 7.2 Rb 97 Hwy 97 at Brooks Memorial Park 10/29 East Prong Little Klickitat Klickitat 7.2 Rb 138 Hwy 97 at Brooks Memorial Park 10/29 East Prong Little Klickitat Klickitat 7.2 Rb 138 Hwy 97 at Brooks Memorial Park 10/29 East Prong Little Klickitat Klickitat 7.2 Rb 138 Hwy 97 at Brooks Memorial Park 10/29 East Prong Little Klickitat Klickitat 7.2 Rb 138 Hwy 97 at Brooks Memorial Park 10/29 East Prong Little Klickitat Klickitat 7.2 Rb 138 Hwy 97 at Brooks Memorial Park 10/29 East Prong Little Klickitat Klickitat 7.2 Rb 138 Hwy 97 at Brooks Memorial Park 10/29 East Prong Little Klickitat Klickitat 7.2 Rb 138 Hwy 97 at Brooks Memorial Park 10/29 East Prong Little Klickitat Klickitat 7.2 Rb 138 Hwy 97 at Brooks Memorial Park 10/29 East Prong Little Klickitat Klickitat 7.2 Rb 138 Lower Butler Creek site just west of Hwy 97, 4 Stoulpin and 43 dace 10/29 East Prong Little Klickitat Klickitat 7.2 Rb 139 Hwy 97 at Brooks Memorial Park 10/29 Butler Little Klickitat Klickitat 7.2 Rb 139 Lower Butler Creek site just west of Hwy 97 Tb 10/29 Butler Little Klickitat Klickitat 7.2 Rb 139 Lower Butler Creek site just west of Hwy 97 Hwy 97 Lower 10/29 Butler Little Klickitat Klickitat 7.2 Rb 139 Lower Butler Creek site just west of Hwy 97 Hwy 97 Lower 10/29 Butler Little Klickitat Klickitat 7.2 Rb 126 Lower Butler Creek site just west of Hwy 97 Hwy 97 Lower 10/29 Butler Little Klickitat Klickitat 7.2 Rb 139 Lower Butler Creek site just west of Hwy 97 Hwy 97 Lower 10/29 Butler Little Klickitat Klickitat 7.2 Rb 130 Lower Butler Creek site just west of Hwy 97 Hwy 97 Lower Butler Creek site just west of Hwy 97 Hwy 97 Lower Butler Creek site just west of Hwy 97 Hwy 97 Lower Butler Klickitat Klickitat 7.2 Rb 130 Lower Butler Creek site just west of Hwy 97 Hwy 97 Lower Butler Creek site just west of Hwy 97 Hwy 97 Lower Butler K			Little Klickitat					
10/29 East Prong Little Klickitat Klickitat 7.2 Rb 90 Hwy 97 at Brooks Memorial Park 10/29 East Prong Little Klickitat Klickitat 7.2 Rb 91 Hwy 97 at Brooks Memorial Park 10/29 East Prong Little Klickitat Klickitat 7.2 Rb 93 Hwy 97 at Brooks Memorial Park 10/29 East Prong Little Klickitat Klickitat 7.2 Rb 193 Hwy 97 at Brooks Memorial Park 10/29 East Prong Little Klickitat Klickitat 7.2 Rb 193 Hwy 97 at Brooks Memorial Park 10/29 East Prong Little Klickitat Klickitat 7.2 Rb 193 Hwy 97 at Brooks Memorial Park 10/29 East Prong Little Klickitat Klickitat 7.2 Rb 193 Hwy 97 at Brooks Memorial Park 10/29 East Prong Little Klickitat Klickitat 7.2 Rb 193 Hwy 97 at Brooks Memorial Park 10/29 East Prong Little Klickitat Klickitat 7.2 Rb 193 Hwy 97 at Brooks Memorial Park 10/29 Butler Little Klickitat Klickitat 7.2 Rb 193 Lower Butler Creek site just west of Hwy 97; 4 sculpin and 43 dace 10/29 Butler Little Klickitat Klickitat 7.2 Rb 193 Lower Butler Creek site just west of Hwy 97; 4 sculpin and 43 dace 10/29 Butler Little Klickitat Klickitat 7.2 Rb 193 Lower Butler Creek site just west of Hwy 97 10/29 Butler Little Klickitat Klickitat 7.2 Rb 194 Lower Butler Creek site just west of Hwy 97 10/29 Butler Little Klickitat Klickitat 7.2 Rb 194 Lower Butler Creek site just west of Hwy 97 10/29 Butler Little Klickitat Klickitat 7.2 Rb 194 Lower Butler Creek site just west of Hwy 97 10/29 Butler Little Klickitat Klickitat 7.2 Rb 194 Lower Butler Creek site just west of Hwy 97 10/29 Butler Little Klickitat Klickitat 7.2 Rb 195 Lower Butler Creek site just west of Hwy 97 10/29 Butler Little Klickitat Klickitat 7.2 Rb 195 Lower Butler Creek site just west of Hwy 97 10/29 Butler Little Klickitat Klickitat 7.2 Rb 195 Lower Butler Creek site just west of Hwy 97 10/29 Butler Little Klickitat Klickitat 7.2 Rb 195 Lower Butler Creek site just west of Hwy 97 10/29 Butler Little Klickitat Klickitat 7.2 Rb 195 Lower Butler Creek site just west of Hwy 97 10/29 Butler Little Klickitat Klickitat 7.2 Rb 195 Lower Butler Creek site just west of H								7
10/29 East Prong Little Klickitat Klickitat 7.2 Rb 93 Hwy 97 at Brooks Memorial Park 10/29 East Prong Little Klickitat Klickitat 7.2 Rb 93 Hwy 97 at Brooks Memorial Park 10/29 East Prong Little Klickitat Klickitat 7.2 Rb 93 Hwy 97 at Brooks Memorial Park 10/29 East Prong Little Klickitat Klickitat 7.2 Rb 138 Hwy 97 at Brooks Memorial Park 10/29 East Prong Little Klickitat Klickitat 7.2 Rb 138 Hwy 97 at Brooks Memorial Park 10/29 East Prong Little Klickitat Klickitat 7.2 Rb 139 Hwy 97 at Brooks Memorial Park 10/29 East Prong Little Klickitat Klickitat 7.2 Rb 130 Hwy 97 at Brooks Memorial Park 10/29 East Prong Little Klickitat Klickitat 7.2 Rb 130 Hwy 97 at Brooks Memorial Park 10/29 Butler Little Klickitat Klickitat 7.2 Rb 130 Hwy 97 at Brooks Memorial Park 10/29 Butler Little Klickitat Klickitat 7.2 Rb 130 Hwy 97 at Brooks Memorial Park 10/29 Butler Little Klickitat Klickitat 7.2 Rb 130 Lower Butler Creek site just west of Hwy 97 Hwy 97 at Brooks Memorial Park 10/29 Butler Little Klickitat Klickitat 7.2 Rb 130 Lower Butler Creek site just west of Hwy 97 Hwy 97 at Brooks Memorial Park 10/29 Butler Little Klickitat Klickitat 7.2 Rb 130 Lower Butler Creek site just west of Hwy 97 Hwy 97 Butler Creek site just west of Hwy 97 Hwy 97 Butler Creek site just west of Hwy 97 Hwy 97 Butler Creek site just west of Hwy 97 Hwy 97 Butler Creek site just west of Hwy 97 Hwy 97 Butler Little Klickitat Klickitat 7.2 Rb 130 Lower Butler Creek site just west of Hwy 97 Hwy 97 Butler Little Klickitat Klickitat 7.2 Rb 130 Lower Butler Creek site just west of Hwy 97 Hwy 97 Butler Little Klickitat Klickitat 7.2 Rb 130 Lower Butler Creek site just west of Hwy 97 Butler Little Klickitat Klickitat 7.2 Rb 130 Lower Butler Creek site just west of Hwy 97 Butler 10/29 Butler Little Klickitat Klickitat 7.2 Rb 130 Lower Butler Creek site just west of Hwy 97 Butler 10/29 Butler Little Klickitat Klickitat 7.2 Rb 130 Lower Butler Creek site just west of Hwy 97 Butler 10/29 Butler Little Klickitat Klickitat 7.2 Rb 130 Lower Butler Creek site just we								
10/29 East Prong	10/29	East Prong	Little Klickitat	Klickitat			90	Hwy 97 at Brooks Memorial Park
10/29 East Prong	10/29	East Prong	Little Klickitat	Klickitat	7.2	Rb	97	Hwy 97 at Brooks Memorial Park
10/29 East Prong			Little Klickitat	Klickitat				
10/29 East Prong	10/29	East Prong	Little Klickitat	Klickitat	7.2	Rb	138	Hwy 97 at Brooks Memorial Park
10/29 East Prong	10/29	East Prong	Little Klickitat	Klickitat	7.2	Rb		
10/29 Butler Little Klickitat Klickitat 7.2 Rb 90 Hwy 97 at Brooks Memorial Park	10/29	East Prong	Little Klickitat	Klickitat	7.2	Rb	90	Hwy 97 at Brooks Memorial Park
10/29 Butler Little Klickitat Klickitat 7.2 Rb 185 Lower Butler Creek site just west of Hwy 97 4 sculpin and 43 dace	10/29	East Prong	Little Klickitat	Klickitat			98	Hwy 97 at Brooks Memorial Park
10/29 Butler Little Klickitat Klickitat 7.2 Rb 202 Lower Butler Creek site just west of Hwy 97	10/29	East Prong	Little Klickitat	Klickitat	7.2	Rb	90	Hwy 97 at Brooks Memorial Park
10/29 Butler Little Klickitat Klickitat 7.2 Rb 119 Lower Butler Creek site just west of Hwy 97	10/29	Butler	Little Klickitat	Klickitat	7.2	Rb	185	Lower Butler Creek site just west of Hwy 97; 4 sculpin and 43 dace
10/29 Butler Little Klickitat Klickitat T.2 Rb 124 Lower Butler Creek site just west of Hwy 97			Little Klickitat	Klickitat			202	Lower Butler Creek site just west of Hwy 97
10/29 Butler Little Klickitat Klickitat 7.2 Rb 94 Lower Butler Creek site just west of Hwy 97	10/29	Butler	Little Klickitat	Klickitat			119	Lower Butler Creek site just west of Hwy 97
10/29 Butler	10/29	Butler	Little Klickitat	Klickitat	7.2	Rb	124	Lower Butler Creek site just west of Hwy 97
10/29 Butler	10/29	Butler	Little Klickitat		7.2	Rb	94	Lower Butler Creek site just west of Hwy 97
10/29 Butler			Little Klickitat	Klickitat			126	Lower Butler Creek site just west of Hwy 97
10/29 Butler Little Klickitat Klickitat 7.2 Rb 178 Lower Butler Creek site just west of Hwy 97			Little Klickitat	Klickitat	7.2	Rb		
10/29 Butler Little Klickitat Klickitat 7.2 Rb 68 Lower Butler Creek site just west of Hwy 97	10/29	Butler	Little Klickitat	Klickitat	7.2	Rb	58	Lower Butler Creek site just west of Hwy 97
10/29 Butler Little Klickitat Klickitat 7.2 Rb 106 Lower Butler Creek site just west of Hwy 97	10/29	Butler					178	Lower Butler Creek site just west of Hwy 97
10/29 Butler	10/29	Butler	Little Klickitat	Klickitat	7.2	Rb	68	Lower Butler Creek site just west of Hwy 97
10/29 Butler Little Klickitat Klickitat 7.2 Rb 56 Lower Butler Creek site just west of Hwy 97								
10/29 Butler Little Klickitat Klickitat 7.2 Rb 97 Lower Butler Creek site just west of Hwy 97 10/29 Butler Little Klickitat Klickitat 7.2 Rb 72 Lower Butler Creek site just west of Hwy 97 10/29 Butler Little Klickitat Klickitat 7.2 Rb 58 Lower Butler Creek site just west of Hwy 97 10/29 Butler Little Klickitat Klickitat 7.2 Rb 66 Lower Butler Creek site just west of Hwy 97 10/29 Butler Little Klickitat Klickitat 7.2 Rb 108 Lower Butler Creek site just west of Hwy 97 10/29 Butler Little Klickitat Klickitat 7.2 Rb 108 Lower Butler Creek site just west of Hwy 97 10/29 Butler Little Klickitat Klickitat 7.2 Rb 19 Lower Butler Creek site just west of Hwy 97 10/29 Butler Little Klickitat Klickitat 7.2 Rb 108 Lower Butler Creek site just west of Hwy 97 10/29 Butler Little Klickitat Klickitat 7.2 Rb 108	10/29	Butler	Little Klickitat				100	Lower Butler Creek site just west of Hwy 97
10/29 Butler Little Klickitat Klickitat 7.2 Rb 72 Lower Butler Creek site just west of Hwy 97 10/29 Butler Little Klickitat Klickitat 7.2 Rb 58 Lower Butler Creek site just west of Hwy 97 10/29 Butler Little Klickitat Klickitat 7.2 Rb 66 Lower Butler Creek site just west of Hwy 97 10/29 Butler Little Klickitat Klickitat 7.2 Rb 108 Lower Butler Creek site just west of Hwy 97 10/29 Butler Little Klickitat Klickitat 7.2 Rb 108 Lower Butler Creek site just west of Hwy 97 10/29 Butler Little Klickitat Klickitat 7.2 Rb 108 Lower Butler Creek site just west of Hwy 97 10/29 Butler Little Klickitat Klickitat 7.2 Rb 108 Lower Butler Creek site just west of Hwy 97 10/29 Butler Little Klickitat Klickitat 7.2 Rb 108 Lower Butler Creek site just west of Hwy 97 10/21 But								
10/29ButlerLittle KlickitatKlickitat7.2Rb58Lower Butler Creek site just west of Hwy 9710/29ButlerLittle KlickitatKlickitat7.2Rb57Lower Butler Creek site just west of Hwy 9710/29ButlerLittle KlickitatKlickitat7.2Rb66Lower Butler Creek site just west of Hwy 9710/29ButlerLittle KlickitatKlickitat7.2Rb116Lower Butler Creek site just west of Hwy 9710/29ButlerLittle KlickitatKlickitat7.2Rb116Lower Butler Creek site just west of Hwy 9710/31BowmanLittle KlickitatKlickitat6.7Rb155shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb98shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb96shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb116shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb107shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb107shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb107shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb46shocked at Lower B								
10/29 Butler	10/29	Butler	Little Klickitat					
10/29ButlerLittle KlickitatKlickitat7.2Rb66Lower Butler Creek site just west of Hwy 9710/29ButlerLittle KlickitatKlickitat7.2Rb108Lower Butler Creek site just west of Hwy 9710/29ButlerLittle KlickitatKlickitat7.2Rb116Lower Butler Creek site just west of Hwy 9710/29ButlerLittle KlickitatKlickitat7.2Rb98Lower Butler Creek site just west of Hwy 9710/31BowmanLittle KlickitatKlickitat6.7Rb98Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb98shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb96shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb116shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb107shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb98shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb98shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb48shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb48shocked at Lower Bowman Camp1								, ,
10/29ButlerLittle KlickitatKlickitat7.2Rb108Lower Butler Creek site just west of Hwy 9710/29ButlerLittle KlickitatKlickitat7.2Rb116Lower Butler Creek site just west of Hwy 9710/31BowmanLittle KlickitatKlickitat6.7Rb98Lower Butler Creek site just west of Hwy 9710/31BowmanLittle KlickitatKlickitat6.7Rb155shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb98shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb116shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb107shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb98shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb98shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb88shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb46shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb45shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb42shocked at Lower Bowman Camp10/3								
10/29 Butler								
10/29ButlerLittle KlickitatKlickitat7.2Rb98Lower Butler Creek site just west of Hwy 9710/31BowmanLittle KlickitatKlickitat6.7Rb155shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb98shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb96shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb116shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb107shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb98shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb88shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb62shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb46shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb42shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb48shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb48shocked at Lower Bowman Camp10/31BowmanLittle								, ,
10/31BowmanLittle KlickitatKlickitat6.7Rb155shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb98shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb16shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb107shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb98shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb98shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb88shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb46shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb53shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb42shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb48shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb48shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb48shocked at Lower Bowman Camp10/31BowmanLittle Klickitat <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>								
10/31BowmanLittle KlickitatKlickitat6.7Rb98shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb96shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb116shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb107shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb98shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb88shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb62shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb46shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb53shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb42shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb48shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb48shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb48shocked at Lower Bowman Camp10/31BowmanLittle Klickitat <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>								
10/31BowmanLittle KlickitatKlickitat6.7Rb96shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb116shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb107shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb98shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb88shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb62shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb46shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb53shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb42shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb48shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb48shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb164shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb100shocked at Lower Bowman Camp								
10/31BowmanLittle KlickitatKlickitat6.7Rb116shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb107shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb98shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb88shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb62shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb46shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb53shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb42shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb48shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb164shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb164shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb100shocked at Lower Bowman Camp								
10/31BowmanLittle KlickitatKlickitat6.7Rb107shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb98shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb88shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb62shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb46shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb53shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb42shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb48shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb164shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb164shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb100shocked at Lower Bowman Camp								
10/31BowmanLittle KlickitatKlickitat6.7Rb98shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb88shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb62shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb46shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb53shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb42shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb48shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb164shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb100shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb100shocked at Lower Bowman Camp								
10/31BowmanLittle KlickitatKlickitat6.7Rb88shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb62shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb46shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb53shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb42shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb48shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb164shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb100shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb100shocked at Lower Bowman Camp								·
10/31BowmanLittle KlickitatKlickitat6.7Rb62shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb46shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb53shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb42shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb48shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb164shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb100shocked at Lower Bowman Camp	-							
10/31BowmanLittle KlickitatKlickitat6.7Rb46shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb53shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb42shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb48shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb164shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb100shocked at Lower Bowman Camp								
10/31BowmanLittle KlickitatKlickitat6.7Rb53shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb42shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb48shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb164shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb100shocked at Lower Bowman Camp				Klickitat				
10/31BowmanLittle KlickitatKlickitat6.7Rb42shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb48shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb164shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb100shocked at Lower Bowman Camp	-							
10/31BowmanLittle KlickitatKlickitat6.7Rb48shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb164shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb100shocked at Lower Bowman Camp								
10/31BowmanLittle KlickitatKlickitat6.7Rb164shocked at Lower Bowman Camp10/31BowmanLittle KlickitatKlickitat6.7Rb100shocked at Lower Bowman Camp	-							
10/31 Bowman Little Klickitat Klickitat 6.7 Rb 100 shocked at Lower Bowman Camp	-							·
10/31 Bowman Little Klickitat Klickitat 6.7 Rb 58 shocked at Lower Bowman Camp	_							·
	10/31	Bowman	Little Klickitat	Klickitat	6.7	Rb	58	shocked at Lower Bowman Camp

Appendix C. Electroshock data from streams in the Klickitat and White Salmon river basins, 2001.

	1						
10/31	Bowman	Little Klickitat	Klickitat	6.7	Rb	95	shocked at Lower Bowman Camp
10/31	Bowman	Little Klickitat	Klickitat	6.7	Rb	51	shocked at Lower Bowman Camp
	Bowman	Little Klickitat	Klickitat		Rb	104	shocked at Lower Bowman Camp
10/31	Bowman	Little Klickitat	Klickitat		Rb	58	
10/31	Bowman	Little Klickitat	Klickitat		Rb	87	shocked at Lower Bowman Camp
	_						
10/31	Bowman	Little Klickitat	Klickitat		Rb	82	shocked at Lower Bowman Camp
	Bowman	Little Klickitat	Klickitat		Rb	57	
10/31	Bowman	Little Klickitat	Klickitat	6.7	Rb	55	shocked at Lower Bowman Camp
10/31	Bowman	Little Klickitat	Klickitat	6.7	Rb	53	shocked at Lower Bowman Camp
10/31	Bowman	Little Klickitat	Klickitat	6.7	Rb	150	shocked at Lower Bowman Camp
10/31	Bowman	Little Klickitat	Klickitat	6.7	Rb	98	shocked at Lower Bowman Camp
10/31		Little Klickitat	Klickitat		Rb	98	
10/31	Bowman	Little Klickitat	Klickitat		Rb		shocked at Lower Bowman Camp
					Rb	99	
		Little Klickitat	Klickitat				shocked at Lower Bowman Camp
	Bowman	Little Klickitat	Klickitat		Rb		
10/31	Bowman	Little Klickitat	Klickitat		Rb	91	shocked at Lower Bowman Camp
10/31	Bowman	Little Klickitat	Klickitat		Rb	83	shocked at Lower Bowman Camp
10/31	Bowman	Little Klickitat	Klickitat	6.7	Rb	45	shocked at Lower Bowman Camp
10/31	Bowman	Little Klickitat	Klickitat	6.7	Rb	48	shocked at Lower Bowman Camp
10/31	Bowman	Little Klickitat	Klickitat	6.7	Rb	44	shocked at Lower Bowman Camp
10/31	Bowman	Little Klickitat	Klickitat	6.7	Rb	113	shocked at Lower Bowman Camp
	Bowman	Little Klickitat	Klickitat		Rb	73	
10/31	Bowman	Little Klickitat	Klickitat		Rb	126	shocked at Lower Bowman Camp
		Little Klickitat	Klickitat		Rb	87	
						_	
10/31	Bowman	Little Klickitat	Klickitat		Rb	58	
	Bowman	Little Klickitat	Klickitat		Rb		shocked at Lower Bowman Camp
10/31	Bowman	Little Klickitat	Klickitat		Rb	73	
10/31	Bowman	Little Klickitat	Klickitat		Rb	85	shocked at Lower Bowman Camp
10/31	Bowman	Little Klickitat	Klickitat	6.7	Rb	44	shocked at Lower Bowman Camp
10/31	Bowman	Little Klickitat	Klickitat	6.7	Rb	96	shocked at Lower Bowman Camp
	Bowman	Little Klickitat	Klickitat		Rb	84	
		Little Klickitat	Klickitat		Rb	39	shocked at Lower Bowman Camp
10/31	Bowman	Little Klickitat	Klickitat		Rb	100	shocked at Lower Bowman Camp
	_				Rb	52	
10/31	Bowman	Little Klickitat	Klickitat				
	Bowman	Little Klickitat	Klickitat		Rb	54	
10/31	Bowman	Little Klickitat	Klickitat		Rb	54	
10/31	Bowman	Little Klickitat	Klickitat		Rb	52	
10/31	Bowman	Little Klickitat	Klickitat	6.7	Rb		shocked at Lower Bowman Camp
10/31	Bowman	Little Klickitat	Klickitat	6.7	Rb	118	shocked at Lower Bowman Camp
10/31	Bowman	Little Klickitat	Klickitat	6.7	Rb	75	shocked at Lower Bowman Camp
10/31	Bowman	Little Klickitat	Klickitat	6.7	Rb	98	shocked at Lower Bowman Camp
10/31	Bowman	Little Klickitat	Klickitat		Rb	94	
10/31	Bowman	Little Klickitat	Klickitat	6.7	Rb	45	shocked at Lower Bowman Camp
10/31	Bowman	Little Klickitat	Klickitat		Rb		
	Bowman	Little Klickitat Little Klickitat	Klickitat	6.7	Rb	SI.	Lehocked at Lower Rowman Camp
	Bowman	TETINON MUNICIPAL	Kliakitat	6.7	D۲		shocked at Lower Bowman Camp
			Klickitat	6.7		52	shocked at Lower Bowman Camp
	Bowman	Little Klickitat	Klickitat	6.7	Rb	52 55	shocked at Lower Bowman Camp shocked at Lower Bowman Camp
	Bowman	Little Klickitat Little Klickitat	Klickitat Klickitat	6.7 6.7	Rb Rb	52 55 52	shocked at Lower Bowman Camp shocked at Lower Bowman Camp shocked at Lower Bowman Camp
10/31	Bowman Bowman	Little Klickitat Little Klickitat Little Klickitat	Klickitat Klickitat Klickitat	6.7 6.7 6.7	Rb Rb Rb	52 55 52 55	shocked at Lower Bowman Camp
10/31 10/31	Bowman Bowman Bowman	Little Klickitat Little Klickitat	Klickitat Klickitat Klickitat Klickitat	6.7 6.7 6.7 6.7	Rb Rb Rb Rb	52 55 52 55 152	shocked at Lower Bowman Camp
10/31 10/31	Bowman Bowman	Little Klickitat Little Klickitat Little Klickitat	Klickitat Klickitat Klickitat	6.7 6.7 6.7 6.7	Rb Rb Rb	52 55 52 55 152	shocked at Lower Bowman Camp
10/31 10/31 10/31	Bowman Bowman Bowman	Little Klickitat Little Klickitat Little Klickitat Little Klickitat	Klickitat Klickitat Klickitat Klickitat	6.7 6.7 6.7 6.7	Rb Rb Rb Rb	52 55 52 55 152 81	shocked at Lower Bowman Camp
10/31 10/31 10/31 10/31	Bowman Bowman Bowman Bowman	Little Klickitat	Klickitat Klickitat Klickitat Klickitat Klickitat Klickitat Klickitat	6.7 6.7 6.7 6.7 6.7 6.7	Rb Rb Rb Rb Rb	52 55 52 55 152 81 110	shocked at Lower Bowman Camp
10/31 10/31 10/31 10/31 10/31	Bowman Bowman Bowman Bowman Bowman	Little Klickitat	Klickitat Klickitat Klickitat Klickitat Klickitat Klickitat Klickitat Klickitat	6.7 6.7 6.7 6.7 6.7 6.7	Rb Rb Rb Rb Rb Rb Rb	52 55 52 55 152 81 110 93	shocked at Lower Bowman Camp
10/31 10/31 10/31 10/31 10/31 10/31	Bowman Bowman Bowman Bowman Bowman Bowman Bowman Bowman	Little Klickitat	Klickitat	6.7 6.7 6.7 6.7 6.7 6.7 6.7	Rb Rb Rb Rb Rb Rb Rb	52 55 52 55 152 81 110 93	shocked at Lower Bowman Camp
10/31 10/31 10/31 10/31 10/31 10/31	Bowman Bowman Bowman Bowman Bowman Bowman Bowman Bowman Bowman	Little Klickitat	Klickitat	6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7	Rb Rb Rb Rb Rb Rb Rb Rb	52 55 52 55 152 81 110 93 94 93	shocked at Lower Bowman Camp
10/31 10/31 10/31 10/31 10/31 10/31 10/31	Bowman	Little Klickitat	Klickitat	6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7	Rb Rb Rb Rb Rb Rb Rb Rb Rb	52 55 52 55 152 81 110 93 94 93 103	shocked at Lower Bowman Camp
10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31	Bowman	Little Klickitat	Klickitat	6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7	Rb Rb Rb Rb Rb Rb Rb Rb Rb Rb	52 55 52 55 152 81 110 93 94 93 103	shocked at Lower Bowman Camp
10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31	Bowman	Little Klickitat	Klickitat	6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7	Rb Rb Rb Rb Rb Rb Rb Rb Rb Rb Rb	52 55 52 55 152 81 110 93 94 93 103 107 82	shocked at Lower Bowman Camp
10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31	Bowman	Little Klickitat	Klickitat	6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7	Rb R	52 55 55 152 81 110 93 94 93 103 107 82 53	shocked at Lower Bowman Camp
10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31	Bowman	Little Klickitat	Klickitat	6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7	Rb R	52 55 52 152 81 110 93 94 93 103 107 82 53 86	shocked at Lower Bowman Camp
10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31	Bowman	Little Klickitat	Klickitat	6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7	Rb Rb Rb Rb Rb Rb Rb Rb Rb Rb Rb Rb Rb	52 55 52 152 81 110 93 94 93 103 107 82 53 86 118	shocked at Lower Bowman Camp
10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31	Bowman	Little Klickitat	Klickitat	6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7	Rb R	52 55 52 55 152 81 110 93 94 93 103 107 82 53 86 118 58	shocked at Lower Bowman Camp
10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31	Bowman	Little Klickitat	Klickitat	6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7	Rb Rb Rb Rb Rb Rb Rb Rb Rb Rb Rb Rb Rb	52 55 52 55 152 81 110 93 94 93 103 107 82 53 86 118 58	shocked at Lower Bowman Camp
10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31	Bowman	Little Klickitat	Klickitat	6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7	Rb Rb Rb Rb Rb Rb Rb Rb Rb Rb Rb Rb Rb R	52 55 55 152 81 110 93 93 103 107 82 53 86 118 58	shocked at Lower Bowman Camp
10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31	Bowman	Little Klickitat	Klickitat	6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7	Rb Rb Rb Rb Rb Rb Rb Rb Rb Rb Rb Rb Rb R	52 55 55 152 81 110 93 94 93 103 107 82 53 86 118 58 54 59	shocked at Lower Bowman Camp
10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31	Bowman	Little Klickitat	Klickitat	6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7	Rb Rb Rb Rb Rb Rb Rb Rb Rb Rb Rb Rb Rb R	52 55 55 152 81 110 93 94 93 103 107 82 53 86 118 58 54 59	shocked at Lower Bowman Camp
10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31	Bowman	Little Klickitat	Klickitat	6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7	Rb Rb Rb Rb Rb Rb Rb Rb	52 55 52 55 152 81 110 93 94 93 103 107 82 53 86 118 58 54 59 93 58	shocked at Lower Bowman Camp
10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31	Bowman	Little Klickitat	Klickitat	6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7	Rb Rb Rb Rb Rb Rb Rb Rb	52 55 52 55 152 81 110 93 94 93 103 107 82 53 86 118 58 54 59 93 58 53	shocked at Lower Bowman Camp
10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31 10/31	Bowman	Little Klickitat	Klickitat	6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7	Rb Rb Rb Rb Rb Rb Rb Rb Rb Rb Rb Rb Rb R	52 55 52 55 152 81 110 93 94 93 103 107 82 53 86 118 58 54 59 93 58 55 53 53	shocked at Lower Bowman Camp

Appendix C. Electroshock data from streams in the Klickitat and White Salmon river basins, 2001.

II.							
10/31	Bowman	Little Klickitat	Klickitat	7.5	Rb	98	shocked at Upper Bowman Camp
10/31	Bowman	Little Klickitat	Klickitat	7.5	Rb	106	shocked at Upper Bowman Camp
10/31	Bowman	Little Klickitat	Klickitat	7.5			shocked at Upper Bowman Camp
	Bowman	Little Klickitat	Klickitat	7.5			shocked at Upper Bowman Camp
10/31	Bowman	Little Klickitat	Klickitat	7.5		84	
	Bowman	Little Klickitat	Klickitat	7.5			shocked at Upper Bowman Camp
10/31	Bowman	Little Klickitat	Klickitat		Rb	74	shocked at Upper Bowman Camp
10/31	Bowman	Little Klickitat	Klickitat	7.5			shocked at Upper Bowman Camp
10/31	Bowman	Little Klickitat	Klickitat		Rb		shocked at Upper Bowman Camp
10/31	Bowman	Little Klickitat Little Klickitat	Klickitat Klickitat	7.5 7.5			shocked at Upper Bowman Camp shocked at Upper Bowman Camp
10/31	Bowman Bowman	Little Klickitat	Klickitat		Rb		shocked at Upper Bowman Camp
10/31	Bowman	Little Klickitat	Klickitat		Rb	42	shocked at Upper Bowman Camp
	Bowman	Little Klickitat	Klickitat	7.5		45	shocked at Upper Bowman Camp
10/31	Bowman	Little Klickitat	Klickitat		Rb		shocked at Upper Bowman Camp
10/31	Bowman	Little Klickitat	Klickitat	7.5			shocked at Upper Bowman Camp
	Bowman	Little Klickitat	Klickitat	7.5			shocked at Upper Bowman Camp
10/31	Bowman	Little Klickitat	Klickitat	7.5	Rb	52	shocked at Upper Bowman Camp
10/31	Bowman	Little Klickitat	Klickitat	7.5	Rb	65	shocked at Upper Bowman Camp
10/31	Bowman	Little Klickitat	Klickitat	7.5	Rb	48	shocked at Upper Bowman Camp
10/31	Bowman	Little Klickitat	Klickitat		Rb	48	
	Bowman	Little Klickitat	Klickitat	7.5			shocked at Upper Bowman Camp
10/31	Bowman	Little Klickitat	Klickitat		Rb		
	Bowman	Little Klickitat	Klickitat				shocked at Upper Bowman Camp
	Bowman	Little Klickitat	Klickitat		Rb		shocked at Upper Bowman Camp
	Bowman	Little Klickitat	Klickitat		Rb		shocked at Upper Bowman Camp
10/31	Bowman	Little Klickitat	Klickitat			46	shocked at Upper Bowman Camp
	Bowman	Little Klickitat	Klickitat				
	Bowman Bowman	Little Klickitat Little Klickitat	Klickitat Klickitat	7.5 7.5	Rb		shocked at Upper Bowman Camp shocked at Upper Bowman Camp
	Bowman	Little Klickitat	Klickitat	7.5			shocked at Upper Bowman Camp
10/31	Bowman	Little Klickitat	Klickitat		Rb		
10/31	Bowman	Little Klickitat	Klickitat				
10/31	Bowman	Little Klickitat	Klickitat		Rb	95	
	Bowman	Little Klickitat	Klickitat				shocked at Upper Bowman Camp
	Bowman	Little Klickitat	Klickitat	7.5			shocked at Upper Bowman Camp
10/31	Bowman	Little Klickitat	Klickitat	7.5	Rb		shocked at Upper Bowman Camp
10/31	Bowman	Little Klickitat	Klickitat	7.5	Rb	147	shocked at Upper Bowman Camp
10/31	Bowman	Little Klickitat	Klickitat		Rb	143	shocked at Upper Bowman Camp
10/31	Bowman	Little Klickitat	Klickitat		Rb	94	shocked at Upper Bowman Camp
10/31	Bowman	Little Klickitat	Klickitat	7.5			shocked at Upper Bowman Camp
	Bowman	Little Klickitat	Klickitat	7.5			shocked at Upper Bowman Camp
10/31	Bowman	Little Klickitat	Klickitat		Rb		shocked at Upper Bowman Camp
	Bowman	Little Klickitat	Klickitat	7.5			shocked at Upper Bowman Camp shocked at Upper Bowman Camp
	Bowman Bowman	Little Klickitat Little Klickitat	Klickitat Klickitat				shocked at Upper Bowman Camp
	Bowman	Little Klickitat	Klickitat				shocked at Upper Bowman Camp
	Bowman	Little Klickitat	Klickitat		Rb		shocked at Upper Bowman Camp
	Bowman	Little Klickitat	Klickitat	7.5			shocked at Upper Bowman Camp
	Bowman	Little Klickitat	Klickitat		Rb		shocked at Upper Bowman Camp
	Bowman	Little Klickitat	Klickitat	7.5			shocked at Upper Bowman Camp
	Bowman	Little Klickitat	Klickitat	7.5			shocked at Upper Bowman Camp
10/31	Bowman	Little Klickitat	Klickitat	7.5	Rb		shocked at Upper Bowman Camp
	Bowman	Little Klickitat	Klickitat	7.5			shocked at Upper Bowman Camp
	Bowman	Little Klickitat	Klickitat	7.5			shocked at Upper Bowman Camp
	Bowman	Little Klickitat	Klickitat	7.5			shocked at Upper Bowman Camp
	Bowman	Little Klickitat	Klickitat	7.5			shocked at Upper Bowman Camp
	Bowman	Little Klickitat	Klickitat	7.5			shocked at Upper Bowman Camp
	Bowman	Little Klickitat	Klickitat	7.5			shocked at Upper Bowman Camp
	Bowman	Little Klickitat	Klickitat	7.5			shocked at Upper Bowman Camp
	Bowman	Little Klickitat Little Klickitat	Klickitat Klickitat	7.5 7.5			shocked at Upper Bowman Camp
	Bowman Bowman	Little Klickitat	Klickitat	7.5			shocked at Upper Bowman Camp shocked at Upper Bowman Camp
	Bowman	Little Klickitat	Klickitat	7.5			shocked at Upper Bowman Camp
	Bowman	Little Klickitat	Klickitat	7.5			
10/31		Little Klickitat	Klickitat	7.2			west fork of Mill Creek
10/31		Little Klickitat	Klickitat	7.2			west fork of Mill Creek
10/31		Little Klickitat	Klickitat	7.2		41	
10/31		Little Klickitat	Klickitat	7.2			west fork of Mill Creek
_				_	_		

Appendix C. Electroshock data from streams in the Klickitat and White Salmon river basins, 2001.

10/31	Mill	Little Klickitat	Klickitat	7.2	Rb	52	west fork of Mill Creek
10/31		Little Klickitat	Klickitat		Rb		west fork of Mill Creek
10/31		Little Klickitat	Klickitat		Rb	161	
10/31		Little Klickitat	Klickitat	7.2		122	west fork of Mill Creek
10/31							
		Little Klickitat	Klickitat	7.2		77	west fork of Mill Creek
10/31		Little Klickitat	Klickitat		Rb	95	west fork of Mill Creek
10/31	Mill	Little Klickitat	Klickitat	7.2	Rb	58	west fork of Mill Creek
10/31		Little Klickitat	Klickitat	7.2	Rb	53	west fork of Mill Creek
10/31	Mill	Little Klickitat	Klickitat	7.2	Rb	92	west fork of Mill Creek
10/31	Mill	Little Klickitat	Klickitat	7.2	Rb	63	west fork of Mill Creek
10/31	Mill	Little Klickitat	Klickitat	7.2	Rb	56	west fork of Mill Creek
10/31		Little Klickitat	Klickitat	7.2		48	west fork of Mill Creek
10/31		Little Klickitat	Klickitat	7.2			west fork of Mill Creek
10/31			Klickitat		Rb	50	
		Little Klickitat					west fork of Mill Creek
10/31		Little Klickitat	Klickitat			54	west fork of Mill Creek
10/31		Little Klickitat	Klickitat	7.2		54	
10/31	Mill	Little Klickitat	Klickitat		Rb	105	west fork of Mill Creek
10/31	Mill	Little Klickitat	Klickitat	7.2	Rb	132	west fork of Mill Creek
10/31	Mill	Little Klickitat	Klickitat	7.2	Rb	93	west fork of Mill Creek
10/31	Mill	Little Klickitat	Klickitat	7.2	Rb	53	west fork of Mill Creek
	Mill	Little Klickitat	Klickitat	7.2		52	west fork of Mill Creek
10/31		Little Klickitat	Klickitat	7.2		51	
		Little Klickitat					
10/31			Klickitat		Rb	57	west fork of Mill Creek
10/31		Little Klickitat	Klickitat		Rb	61	
10/31		Little Klickitat	Klickitat	7.2	Rb	56	west fork of Mill Creek
8/7	Huckleberry	Klickitat	Klickitat	12.2			no fish, site approx. 3 mi. above confluence
8/20	Huckleberry	Klickitat	Klickitat	7.8			no fish
8/20	Unnamed #2	Klickitat	Klickitat	7.2			no fish, trib. #2 on north side of Klickitat River
	Unnamed #3	Klickitat	Klickitat	11.1	Rb	160	trib. #3 on north side of Klickitat River
	Unnamed #3	Klickitat	Klickitat	11.1			trib. #3 on north side of Klickitat River
	Unnamed #3	Klickitat	Klickitat	11.1	_		trib. #3 on north side of Klickitat River
	Unnamed #3	Klickitat	Klickitat	11.1			trib. #3 on north side of Klickitat River
	Unnamed #3	Klickitat	Klickitat	11.1			trib. #3 on north side of Klickitat River
8/20	Unnamed #3	Klickitat	Klickitat	11.1			trib. #3 on north side of Klickitat River
8/20	Unnamed #3	Klickitat	Klickitat	11.1	Rb	125	trib. #3 on north side of Klickitat River
8/20	Unnamed #3	Klickitat	Klickitat	11.1	Rb	119	trib. #3 on north side of Klickitat River
8/20	Unnamed #3	Klickitat	Klickitat	11.1	Rb	142	trib. #3 on north side of Klickitat River
8/20	Unnamed #3	Klickitat	Klickitat	11.1	Rb	74	trib. #3 on north side of Klickitat River
	Unnamed #3	Klickitat	Klickitat	11.1			trib. #3 on north side of Klickitat River
	Unnamed #3	Klickitat	Klickitat	11.1			north fork of trib. #3 on north side of Klickitat River
		Klickitat	Klickitat	11.1		134	
	Unnamed #3						
	Unnamed #3	Klickitat	Klickitat	11.1			east fork of trib. #3 on north side of Klickitat River
	Unnamed #3	Klickitat	Klickitat	11.1			east fork of trib. #3 on north side of Klickitat River
8/20	Unnamed #3	Klickitat	Klickitat				east fork of trib. #3 on north side of Klickitat River
8/20	Unnamed #3	Klickitat	Klickitat	11.1	Rb	132	east fork of trib. #3 on north side of Klickitat River
8/20	Unnamed #3	Klickitat	Klickitat	11.1	DЬ	127	
	Butler			11.1	ĽΩ	121	east fork of trib. #3 on north side of Klickitat River
		Little Klickitat	Klickitat		Rb		east fork of trib. #3 on north side of Klickitat River mid Butler Creek at end of road in canyon
,	Butler			2	Rb	116	mid Butler Creek at end of road in canyon
11/5	Butler Butler	Little Klickitat	Klickitat	2	Rb Rb	116 113	mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon
	Butler	Little Klickitat Little Klickitat	Klickitat Klickitat	2 2 2	Rb Rb Rb	116 113 150	mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon
11/5	Butler Butler	Little Klickitat Little Klickitat Little Klickitat	Klickitat Klickitat Klickitat	2 2 2 2	Rb Rb Rb Rb	116 113 150 105	mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon
11/5 11/5	Butler Butler Butler	Little Klickitat Little Klickitat Little Klickitat Little Klickitat	Klickitat Klickitat Klickitat Klickitat	2 2 2 2 2	Rb Rb Rb Rb	116 113 150 105 124	mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon
11/5 11/5 11/5	Butler Butler Butler Butler	Little Klickitat Little Klickitat Little Klickitat Little Klickitat Little Klickitat	Klickitat Klickitat Klickitat Klickitat Klickitat	2 2 2 2 2 2	Rb Rb Rb Rb Rb	116 113 150 105 124 95	mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon
11/5 11/5 11/5 11/5	Butler Butler Butler Butler Butler	Little Klickitat	Klickitat Klickitat Klickitat Klickitat Klickitat Klickitat Klickitat	2 2 2 2 2 2 2	Rb Rb Rb Rb Rb Rb Rb	116 113 150 105 124 95 92	mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon
11/5 11/5 11/5 11/5 11/5	Butler Butler Butler Butler Butler Butler Butler Butler	Little Klickitat	Klickitat Klickitat Klickitat Klickitat Klickitat Klickitat Klickitat Klickitat	2 2 2 2 2 2 2 2	Rb Rb Rb Rb Rb Rb Rb	116 113 150 105 124 95 92 100	mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon
11/5 11/5 11/5 11/5 11/5	Butler Butler Butler Butler Butler	Little Klickitat	Klickitat Klickitat Klickitat Klickitat Klickitat Klickitat Klickitat	2 2 2 2 2 2 2 2	Rb Rb Rb Rb Rb Rb Rb Rb	116 113 150 105 124 95 92 100 94	mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon
11/5 11/5 11/5 11/5 11/5 11/5	Butler Butler Butler Butler Butler Butler Butler Butler	Little Klickitat	Klickitat Klickitat Klickitat Klickitat Klickitat Klickitat Klickitat Klickitat	2 2 2 2 2 2 2 2	Rb Rb Rb Rb Rb Rb Rb Rb	116 113 150 105 124 95 92 100 94	mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon
11/5 11/5 11/5 11/5 11/5 11/5 11/5	Butler	Little Klickitat	Klickitat	2 2 2 2 2 2 2 2 2 2 2 2	Rb R	116 113 150 105 124 95 92 100 94 65	mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon
11/5 11/5 11/5 11/5 11/5 11/5 11/5 11/5	Butler	Little Klickitat	Klickitat	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Rb Rb	116 113 150 105 124 95 92 100 94 65	mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon
11/5 11/5 11/5 11/5 11/5 11/5 11/5 11/5	Butler	Little Klickitat	Klickitat	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Rb Rb	116 113 150 105 124 95 92 100 94 65 95 62	mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon
11/5 11/5 11/5 11/5 11/5 11/5 11/5 11/5	Butler	Little Klickitat	Klickitat	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Rb Rb	116 113 150 105 124 95 92 100 94 65 95 62 102	mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon
11/5 11/5 11/5 11/5 11/5 11/5 11/5 11/5	Butler	Little Klickitat	Klickitat	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Rb Rb	116 113 150 105 124 95 92 100 94 65 95 62 102 53	mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon
11/5 11/5 11/5 11/5 11/5 11/5 11/5 11/5	Butler	Little Klickitat	Klickitat	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Rb Rb <td< td=""><td>116 113 150 105 124 95 92 100 94 65 95 62 102 53 117</td><td>mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon</td></td<>	116 113 150 105 124 95 92 100 94 65 95 62 102 53 117	mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon
11/5 11/5 11/5 11/5 11/5 11/5 11/5 11/5	Butler	Little Klickitat	Klickitat	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	R B	116 113 150 105 124 95 92 100 94 65 95 62 102 53 117 68	mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon
11/5 11/5 11/5 11/5 11/5 11/5 11/5 11/5	Butler	Little Klickitat	Klickitat	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Rb Rb<	116 113 150 105 124 95 92 100 94 65 95 62 102 53 117 68	mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon
11/5 11/5 11/5 11/5 11/5 11/5 11/5 11/5	Butler	Little Klickitat	Klickitat	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	R B	116 113 150 105 124 95 92 100 94 65 95 62 102 53 117 68	mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon
11/5 11/5 11/5 11/5 11/5 11/5 11/5 11/5	Butler	Little Klickitat	Klickitat	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Rb Rb<	116 113 150 105 124 95 92 100 94 65 95 62 102 53 117 68 60 101	mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon
11/5 11/5 11/5 11/5 11/5 11/5 11/5 11/5	Butler	Little Klickitat	Klickitat	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	R D	116 113 150 105 124 95 92 100 94 65 95 62 102 53 117 68 60 101 54	mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon
11/5 11/5 11/5 11/5 11/5 11/5 11/5 11/5	Butler	Little Klickitat	Klickitat	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Rb Rb<	116 113 150 105 124 95 92 100 94 65 95 62 102 53 117 68 60 101 54 55	mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon
11/5 11/5 11/5 11/5 11/5 11/5 11/5 11/5	Butler	Little Klickitat	Klickitat	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Rb Rb<	116 113 150 105 124 95 92 100 94 65 95 62 102 53 117 68 60 101 54 55 48	mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon
11/5 11/5 11/5 11/5 11/5 11/5 11/5 11/5	Butler	Little Klickitat	Klickitat	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Rb Rb<	116 113 150 105 124 95 92 100 94 65 95 62 102 53 117 68 60 101 54 48 58	mid Butler Creek at end of road in canyon mid Butler Creek at end of road in canyon

Appendix C. Electroshock data from streams in the Klickitat and White Salmon river basins, 2001.

11/5	Butler	Little Klickitat	Klickitat	2	Rb	54	mid Butler Creek at end of road in canyon
	Butler	Little Klickitat	Klickitat		Rb		mid Butler Creek at end of road in canyon
	Butler	Little Klickitat	Klickitat		Rb		mid Butler Creek at end of road in canyon
	Butler	Little Klickitat	Klickitat		Rb		mid Butler Creek at end of road in canyon
			Klickitat				
	Butler	Little Klickitat			Rb		mid Butler Creek at end of road in canyon
	Butler	Little Klickitat	Klickitat	2	Rb		mid Butler Creek at end of road in canyon
	Butler	Little Klickitat	Klickitat	2	Rb		,
11/5	Butler	Little Klickitat	Klickitat	2	Rb		mid Butler Creek at end of road in canyon
11/5	Butler	Little Klickitat	Klickitat	2	Rb	98	mid Butler Creek at end of road in canyon
11/5	Butler	Little Klickitat	Klickitat	2	Rb	58	mid Butler Creek at end of road in canyon
11/5	Butler	Little Klickitat	Klickitat	2	Rb	62	mid Butler Creek at end of road in canyon
	Butler	Little Klickitat	Klickitat	2	Rb		mid Butler Creek at end of road in canyon
	Butler	Little Klickitat	Klickitat		Rb		mid Butler Creek at end of road in canyon
	Butler	Little Klickitat	Klickitat		Rb		upper Butler Creek
	Butler	Little Klickitat	Klickitat	0.5			upper Butler Creek
	Butler	Little Klickitat	Klickitat	0.5			
11/6	Butler	Little Klickitat	Klickitat		Rb		upper Butler Creek
11/6	Butler	Little Klickitat	Klickitat	0.5	Rb	51	upper Butler Creek
11/6	Butler	Little Klickitat	Klickitat	0.5	Rb	79	upper Butler Creek
11/6	Butler	Little Klickitat	Klickitat	0.5	Rb	89	upper Butler Creek
	Butler	Little Klickitat	Klickitat	0.5			
	Butler	Little Klickitat	Klickitat	0.5			upper Butler Creek
	Butler	Little Klickitat	Klickitat				upper Butler Creek
	Butler	Little Klickitat	Klickitat	0.5			upper Butler Creek
	Butler	Little Klickitat	Klickitat				upper Butler Creek
11/6	Butler	Little Klickitat	Klickitat	0.5	Rb	92	upper Butler Creek
11/6	Butler	Little Klickitat	Klickitat	0.5	Rb	104	upper Butler Creek
11/6	Butler	Little Klickitat	Klickitat	0.5		97	upper Butler Creek
	Butler	Little Klickitat	Klickitat	0.5			upper Butler Creek
	Butler	Little Klickitat	Klickitat	0.5			upper Butler Creek
	Butler	Little Klickitat	Klickitat	0.5			upper Butler Creek
	Butler	Little Klickitat	Klickitat	0.5			upper Butler Creek
	Butler	Little Klickitat	Klickitat	0.5			upper Butler Creek
11/6	Butler	Little Klickitat	Klickitat	0.5	Rb	169	upper Butler Creek
11/6	Butler	Little Klickitat	Klickitat	0.5	Rb	90	upper Butler Creek
11/6	Butler	Little Klickitat	Klickitat	0.5	Rb	100	upper Butler Creek
	Butler	Little Klickitat	Klickitat	0.5	Rb	49	upper Butler Creek
	Butler	Little Klickitat	Klickitat	0.5			upper Butler Creek
	Butler	Little Klickitat	Klickitat	0.5			upper Butler Creek
	Butler		Klickitat	0.5			upper Butler Creek
		Little Klickitat					
	Butler	Little Klickitat	Klickitat		Rb		upper Butler Creek
	Butler	Little Klickitat	Klickitat	0.5	Rh	74	
11/6	Butler			0.5			upper Butler Creek
11/6		Little Klickitat	Klickitat		Rb	165	upper Butler Creek
	Butler			0.5			
11/6	Butler Butler	Little Klickitat	Klickitat	0.5 0.5	Rb	49	upper Butler Creek
	Butler	Little Klickitat Little Klickitat Little Klickitat	Klickitat Klickitat Klickitat	0.5 0.5 0.5	Rb Rb Rb	49 94	upper Butler Creek upper Butler Creek upper Butler Creek
11/6	Butler Butler	Little Klickitat Little Klickitat Little Klickitat Little Klickitat	Klickitat Klickitat Klickitat Klickitat	0.5 0.5 0.5 0.5	Rb Rb Rb Rb	49 94 81	upper Butler Creek
11/6 11/6	Butler Butler Butler	Little Klickitat Little Klickitat Little Klickitat Little Klickitat Little Klickitat	Klickitat Klickitat Klickitat Klickitat Klickitat	0.5 0.5 0.5 0.5	Rb Rb Rb Rb Rb	49 94 81 48	upper Butler Creek
11/6 11/6 11/6	Butler Butler Butler Butler	Little Klickitat	Klickitat Klickitat Klickitat Klickitat Klickitat Klickitat Klickitat	0.5 0.5 0.5 0.5 0.5	Rb Rb Rb Rb Rb Rb Rb	49 94 81 48 75	upper Butler Creek
11/6 11/6 11/6 11/6	Butler Butler Butler Butler Butler	Little Klickitat	Klickitat Klickitat Klickitat Klickitat Klickitat Klickitat Klickitat Klickitat	0.5 0.5 0.5 0.5 0.5 0.5	Rb Rb Rb Rb Rb Rb Rb Rb	49 94 81 48 75 108	upper Butler Creek
11/6 11/6 11/6 11/6 11/6	Butler Butler Butler Butler Butler Butler Butler Butler	Little Klickitat	Klickitat	0.5 0.5 0.5 0.5 0.5 0.5 0.5	Rb Rb Rb Rb Rb Rb Rb Rb	49 94 81 48 75 108 50	upper Butler Creek
11/6 11/6 11/6 11/6 11/6 11/6	Butler Butler Butler Butler Butler Butler Butler Butler Butler	Little Klickitat	Klickitat	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Rb Rb Rb Rb Rb Rb Rb Rb	49 94 81 48 75 108 50 75	upper Butler Creek
11/6 11/6 11/6 11/6 11/6 11/6 11/6	Butler	Little Klickitat	Klickitat	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Rb R	49 94 81 48 75 108 50 75 48	upper Butler Creek
11/6 11/6 11/6 11/6 11/6 11/6 11/6	Butler Butler Butler Butler Butler Butler Butler Butler Butler	Little Klickitat	Klickitat	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Rb Rb Rb Rb Rb Rb Rb Rb	49 94 81 48 75 108 50 75 48	upper Butler Creek
11/6 11/6 11/6 11/6 11/6 11/6 11/6 11/6	Butler	Little Klickitat	Klickitat	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Rb R	49 94 81 48 75 108 50 75 48	upper Butler Creek
11/6 11/6 11/6 11/6 11/6 11/6 11/6 11/6	Butler	Little Klickitat	Klickitat	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Rb Rb	49 94 81 48 75 108 50 75 48 50	upper Butler Creek
11/6 11/6 11/6 11/6 11/6 11/6 11/6 11/6	Butler	Little Klickitat	Klickitat	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Rb Rb	49 94 81 48 75 108 50 75 48 50	upper Butler Creek lower West Prong tributary to east
11/6 11/6 11/6 11/6 11/6 11/6 11/6 11/6	Butler West Prong trib.	Little Klickitat	Klickitat	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Rb Rb <td< td=""><td>49 94 81 48 75 108 50 75 48 50 126 122</td><td>upper Butler Creek upper Butler Creek lower West Prong tributary to east</td></td<>	49 94 81 48 75 108 50 75 48 50 126 122	upper Butler Creek lower West Prong tributary to east
11/6 11/6 11/6 11/6 11/6 11/6 11/6 11/6	Butler West Prong trib. West Prong trib.	Little Klickitat	Klickitat	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	R D	49 94 81 48 75 108 50 75 48 50 126 122 94	upper Butler Creek lower West Prong tributary to east lower West Prong tributary to east
11/6 11/6 11/6 11/6 11/6 11/6 11/6 11/6	Butler West Prong trib. West Prong trib. West Prong trib.	Little Klickitat	Klickitat	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Rb Rb	49 94 81 75 108 50 75 48 50 126 122 94 75	upper Butler Creek lower West Prong tributary to east lower West Prong tributary to east lower West Prong tributary to east
11/6 11/6 11/6 11/6 11/6 11/6 11/6 11/6	Butler West Prong trib.	Little Klickitat	Klickitat	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Rb Rb<	49 94 81 75 108 50 75 48 50 126 122 94 75 75	upper Butler Creek lower West Prong tributary to east
11/6 11/6 11/6 11/6 11/6 11/6 11/6 11/6	Butler West Prong trib.	Little Klickitat	Klickitat	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Rb Rb<	49 94 81 48 75 108 50 75 48 50 126 122 94 75 75 193	upper Butler Creek lower West Prong tributary to east
11/6 11/6 11/6 11/6 11/6 11/6 11/6 11/6	Butler West Prong trib.	Little Klickitat	Klickitat	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Rb Rb<	49 94 81 48 75 108 50 75 48 50 126 122 94 75 75 193	upper Butler Creek lower West Prong tributary to east
11/6 11/6 11/6 11/6 11/6 11/6 11/6 11/6	Butler West Prong trib.	Little Klickitat	Klickitat	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Rb Rb<	94 94 81 48 75 108 50 75 48 50 126 122 94 75 75 193 95	upper Butler Creek lower West Prong tributary to east
11/6 11/6 11/6 11/6 11/6 11/6 11/6 11/6	Butler West Prong trib. West Prong	Little Klickitat	Klickitat	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Rb Rb<	49 94 81 75 108 50 75 48 50 126 122 94 75 75 193 95 87	upper Butler Creek lower West Prong tributary to east lower West Prong lower West Prong
11/6 11/6 11/6 11/6 11/6 11/6 11/6 11/6	Butler West Prong trib. West Prong	Little Klickitat	Klickitat	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Rb Rb<	49 94 81 75 108 50 75 48 50 126 122 94 75 75 193 95 87	upper Butler Creek lower West Prong tributary to east lower West Prong lower West Prong lower West Prong lower West Prong
11/6 11/6 11/6 11/6 11/6 11/6 11/6 11/6	Butler West Prong trib. West Prong	Little Klickitat	Klickitat	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	8 8	49 94 81 48 75 108 50 75 48 50 126 122 94 75 75 193 95 87 70 110	upper Butler Creek lower West Prong tributary to east lower West Prong
11/6 11/6 11/6 11/6 11/6 11/6 11/6 11/6	Butler West Prong trib. West Prong	Little Klickitat	Klickitat	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	8 8	49 94 81 48 75 108 50 75 48 50 126 122 94 75 75 193 95 87 70 110	upper Butler Creek lower West Prong tributary to east lower West Prong
11/6 11/6 11/6 11/6 11/6 11/6 11/6 11/6	Butler West Prong trib. West Prong	Little Klickitat	Klickitat	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5		49 94 81 48 75 108 50 75 48 50 126 122 94 75 75 193 95 87 70 110 133 80	upper Butler Creek lower West Prong tributary to east lower West Prong
11/6 11/6 11/6 11/6 11/6 11/6 11/6 11/6	Butler West Prong trib. West Prong	Little Klickitat	Klickitat	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5		49 94 81 48 75 108 50 75 48 50 122 94 75 193 99 87 70 110 133 80 100	upper Butler Creek lower West Prong tributary to east lower West Prong
11/6 11/6 11/6 11/6 11/6 11/6 11/6 11/6	Butler West Prong trib. West Prong	Little Klickitat	Klickitat	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5		49 94 81 48 75 108 50 75 48 50 122 94 75 75 193 95 87 70 110 133 80 100 80	upper Butler Creek lower West Prong tributary to east lower West Prong

Appendix C. Electroshock data from streams in the Klickitat and White Salmon river basins, 2001.

11/6	West Prong	Little Klickitat	Klickitat	0	Rb	105	lower West Prong
	West Prong	Little Klickitat	Klickitat				8
	West Prong	Little Klickitat	Klickitat				lower West Prong
							5
	West Prong	Little Klickitat	Klickitat				lower West Prong
	West Prong	Little Klickitat	Klickitat		Rb		
	West Prong	Little Klickitat	Klickitat		Rb		lower West Prong
11/6	West Prong	Little Klickitat	Klickitat	0	Rb	160	lower West Prong
11/6	West Prong	Little Klickitat	Klickitat	0	Rb	78	lower West Prong
	West Prong	Little Klickitat	Klickitat				lower West Prong
	West Prong	Little Klickitat	Klickitat		Rb		lower West Prong
	West Prong	Little Klickitat			Rb		
		Little Klickitat	Klickitat				lower West Prong
	West Prong	Little Klickitat	Klickitat				lower West Prong
	West Prong	Little Klickitat	Klickitat				lower West Prong
11/6	West Prong	Little Klickitat	Klickitat	0	Rb	100	lower West Prong
11/6	West Prong	Little Klickitat	Klickitat	0	Rb	54	lower West Prong
	West Prong	Little Klickitat	Klickitat		Rb		
	West Prong	Little Klickitat	Klickitat		Rb		lower West Prong
	West Prong	Little Klickitat	Klickitat		Rb		lower West Prong
	West Prong	Little Klickitat	Klickitat		Rb		lower West Prong
	West Prong	Little Klickitat	Klickitat		Rb		lower West Prong
	West Prong	Little Klickitat	Klickitat		Rb		lower West Prong
	West Prong	Little Klickitat	Klickitat	0	Rb		lower West Prong
11/6	West Prong	Little Klickitat	Klickitat	0	Rb	95	lower West Prong
	West Prong	Little Klickitat	Klickitat		Rb		lower West Prong
	West Prong	Little Klickitat	Klickitat		Rb		lower West Prong
	West Prong	Little Klickitat	Klickitat		Rb		lower West Frong
	•						lower West Prong
	West Prong	Little Klickitat	Klickitat		Rb		
	West Prong	Little Klickitat	Klickitat				lower West Prong
	West Prong	Little Klickitat	Klickitat		Rb		lower West Prong
11/6	West Prong	Little Klickitat	Klickitat	0	Rb	102	lower West Prong
11/6	West Prong	Little Klickitat	Klickitat	0	Rb		lower West Prong
11/6	West Prong	Little Klickitat	Klickitat	0	Rb	45	lower West Prong
11/6	West Prong	Little Klickitat	Klickitat		Sc		lower West Prong
	West Prong	Little Klickitat	Klickitat		Sc		9
	West Prong	Little Klickitat	Klickitat		Sc		lower West Prong
	West Prong	Little Klickitat	Klickitat		Sc		lower West Prong
	West Prong	Little Klickitat	Klickitat		Sc		Ü
	West Prong	Little Klickitat	Klickitat		Sc		lower West Prong
	West Prong	Little Klickitat	Klickitat		Sc		lower West Prong
	West Prong	Little Klickitat	Klickitat	0	Sc	60	lower West Prong
11/6	West Prong	Little Klickitat	Klickitat	0			no fish; upper West Prong
11/12	Devils Canyon	Little Klickitat	Klickitat	2.5	Rb	145	
11/12	Devils Canyon	Little Klickitat	Klickitat	2.5	Rb	115	
	Devils Canyon	Little Klickitat	Klickitat			105	
	Devils Canyon	Little Klickitat	Klickitat				
	Devils Canyon		Michilat				
	Deviis CarryUll	I I ITTIA KIIOKITAT				70 88	
	Dovilo Convon	Little Klickitat	Klickitat	2.5	Rb	88	
	Devils Canyon	Little Klickitat	Klickitat Klickitat	2.5 2.5	Rb Rb	88 45	
	Devils Canyon	Little Klickitat Little Klickitat	Klickitat Klickitat Klickitat	2.5 2.5 2.5	Rb Rb Rb	88 45 47	
11/12	Devils Canyon Devils Canyon	Little Klickitat Little Klickitat Little Klickitat	Klickitat Klickitat Klickitat Klickitat	2.5 2.5 2.5 2.5	Rb Rb Rb Rb	88 45 47 91	
11/12 11/12	Devils Canyon Devils Canyon Devils Canyon	Little Klickitat Little Klickitat Little Klickitat Little Klickitat	Klickitat Klickitat Klickitat Klickitat Klickitat	2.5 2.5 2.5 2.5 2.5	Rb Rb Rb Rb	88 45 47 91 127	
11/12 11/12	Devils Canyon Devils Canyon	Little Klickitat Little Klickitat Little Klickitat	Klickitat Klickitat Klickitat Klickitat	2.5 2.5 2.5 2.5	Rb Rb Rb Rb	88 45 47 91	
11/12 11/12 11/12	Devils Canyon Devils Canyon Devils Canyon	Little Klickitat Little Klickitat Little Klickitat Little Klickitat	Klickitat Klickitat Klickitat Klickitat Klickitat Klickitat Klickitat	2.5 2.5 2.5 2.5 2.5 2.5	Rb Rb Rb Rb Rb	88 45 47 91 127	
11/12 11/12 11/12 11/12	Devils Canyon Devils Canyon Devils Canyon Devils Canyon Devils Canyon Devils Canyon	Little Klickitat	Klickitat Klickitat Klickitat Klickitat Klickitat	2.5 2.5 2.5 2.5 2.5 2.5 2.5	Rb Rb Rb Rb Rb Rb	88 45 47 91 127 108 136	
11/12 11/12 11/12 11/12 11/12	Devils Canyon	Little Klickitat	Klickitat	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	Rb Rb Rb Rb Rb Rb Rb	88 45 47 91 127 108 136 93	
11/12 11/12 11/12 11/12 11/12 11/12	Devils Canyon	Little Klickitat	Klickitat	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	Rb Rb Rb Rb Rb Rb Rb Rb	88 45 47 91 127 108 136 93 115	
11/12 11/12 11/12 11/12 11/12 11/12 11/12	Devils Canyon	Little Klickitat	Klickitat	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	Rb Rb Rb Rb Rb Rb Rb Rb Rb	88 45 47 91 127 108 136 93 115 76	
11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12	Devils Canyon	Little Klickitat	Klickitat	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	Rb R	88 45 47 91 127 108 136 93 115 76	
11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12	Devils Canyon	Little Klickitat	Klickitat	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	Rb R	88 45 47 91 127 108 136 93 115 76 94	
11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12	Devils Canyon	Little Klickitat	Klickitat	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	Rb R	88 45 47 91 127 108 136 93 115 76 94 77	
11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12	Devils Canyon	Little Klickitat	Klickitat	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	Rb R	88 45 47 91 127 108 136 93 115 76 94 77 75 66	
11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12	Devils Canyon	Little Klickitat	Klickitat	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	Rb R	88 45 47 91 127 108 136 93 115 76 94 77	
11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12	Devils Canyon	Little Klickitat	Klickitat	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	Rb R	88 45 47 91 127 108 136 93 115 76 94 77 75 66 143	
11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12	Devils Canyon	Little Klickitat	Klickitat	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	Rb	88 45 47 91 127 108 136 93 115 76 94 77 75 66 143 91	east fork of Devils Canyon, just below confluence of upper two tribs
11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12	Devils Canyon	Little Klickitat	Klickitat	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	Rb Rb Rb Rb Rb Rb Rb Rb	88 45 47 91 127 108 136 93 115 76 94 77 75 66 143 91 143	east fork of Devils Canyon, just below confluence of upper two tribs east fork of Devils Canyon just below confluence of upper two tribs
11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12	Devils Canyon	Little Klickitat	Klickitat	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	Rb	88 45 47 91 127 108 136 93 115 76 94 77 75 66 143 91 143 165	east fork of Devils Canyon, just below confluence of upper two tribs
11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12	Devils Canyon	Little Klickitat	Klickitat	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	Rb Rb Rb Rb Rb Rb Rb Rb	88 45 47 91 127 108 136 93 115 76 94 77 75 66 143 91 143 165 127	east fork of Devils Canyon, just below confluence of upper two tribs east fork of Devils Canyon, just below confluence of upper two tribs
11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12	Devils Canyon	Little Klickitat	Klickitat	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	Rb	88 45 47 91 127 108 136 93 115 76 94 77 75 66 143 91 143 165 127 93	east fork of Devils Canyon, just below confluence of upper two tribs east fork of Devils Canyon, just below confluence of upper two tribs east fork of Devils Canyon, just below confluence of upper two tribs
11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12	Devils Canyon	Little Klickitat	Klickitat	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	Rb Rb Rb Rb Rb Rb Rb Rb	88 45 47 91 127 108 136 93 115 76 94 77 75 66 143 91 143 165 127 93 101	east fork of Devils Canyon, just below confluence of upper two tribs east fork of Devils Canyon, just below confluence of upper two tribs east fork of Devils Canyon, just below confluence of upper two tribs east fork of Devils Canyon, just below confluence of upper two tribs
11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12	Devils Canyon	Little Klickitat	Klickitat	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	Rb Rb Rb Rb Rb Rb Rb Rb	88 45 47 91 127 108 136 93 115 76 94 77 75 66 61 43 165 127 93 101 155	east fork of Devils Canyon, just below confluence of upper two tribs east fork of Devils Canyon, just below confluence of upper two tribs east fork of Devils Canyon, just below confluence of upper two tribs east fork of Devils Canyon, just below confluence of upper two tribs east fork of Devils Canyon, just below confluence of upper two tribs
11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12 11/12	Devils Canyon	Little Klickitat	Klickitat	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	Rb Rb	88 45 47 91 127 108 136 93 115 76 94 77 75 66 643 91 143 165 127 93 101 155 148	east fork of Devils Canyon, just below confluence of upper two tribs east fork of Devils Canyon, just below confluence of upper two tribs east fork of Devils Canyon, just below confluence of upper two tribs east fork of Devils Canyon, just below confluence of upper two tribs

Appendix C. Electroshock data from streams in the Klickitat and White Salmon river basins, 2001.

11/12	Devils Canyon	Little Klickitat	Klickitat	2.5	Rb	134	east fork of Devils Canyon, just below confluence of upper two tribs
11/12	Devils Canyon	Little Klickitat	Klickitat		Rb	142	east fork of Devils Canyon, just below confluence of upper two tribs
11/12	Devils Canyon	Little Klickitat	Klickitat	2.5	Rb	170	east fork of Devils Canyon, just below confluence of upper two tribs
11/12	Devils Canyon	Little Klickitat	Klickitat	2.5	Rb		east fork of Devils Canyon, just below confluence of upper two tribs
11/12	Devils Canyon	Little Klickitat	Klickitat		Rb	150	east fork of Devils Canyon, just below confluence of upper two tribs
		Little Klickitat	Klickitat	2.5	Rb	136	east fork of Devils Canyon, just below confluence of upper two tribs
		Little Klickitat	Klickitat	2.5	Rb		east fork of Devils Canyon, just below confluence of upper two tribs
11/12	·	Little Klickitat	Klickitat	2.5	Rb	45	east fork of Devils Canyon, just below confluence of upper two tribs
	,	Little Klickitat	Klickitat	2.5	Rb	112	east fork of Devils Canyon, just below confluence of upper two tribs
11/12	·	Little Klickitat	Klickitat	2.5	Rb		east fork of Devils Canyon, just below confluence of upper two tribs
11/12		Little Klickitat	Klickitat		Rb	138	east fork of Devils Canyon, just below confluence of upper two tribs
		Little Klickitat	Klickitat	2.5	Rb		east fork of Devils Canyon, just below confluence of upper two tribs
	Devils Canyon	Little Klickitat	Klickitat		Rb	120	east fork of Devils Canyon, just below confluence of upper two tribs
_	·	Little Klickitat	Klickitat		Rb		east fork of Devils Canyon, just below confluence of upper two tribs
		Little Klickitat	Klickitat		Rb	136	east fork of Devils Canyon, just below confluence of upper two tribs
	·	Little Klickitat	Klickitat	2.5	Rb	141	east fork of Devils Canyon, just below confluence of upper two tribs
		Little Klickitat	Klickitat	2.5	Rb	191	east fork of Devils Canyon, just below confluence of upper two tribs
	Devils Canyon	Little Klickitat	Klickitat Klickitat		Rb		east fork of Devils Canyon, just below confluence of upper two tribs
	Devils Canyon Devils Canyon	Little Klickitat Little Klickitat	Klickitat	2.5 2.5	Rb Rb	158 140	east fork of Devils Canyon, just below confluence of upper two tribs east fork of Devils Canyon, just below confluence of upper two tribs
11/12		Little Klickitat	Klickitat		Rb		east fork of Mill Creek; off closed road on way to west side of Devils Canyon
11/12		Little Klickitat	Klickitat		Rb		east fork of Mill Creek; off closed road on way to west side of Devils Canyon
11/12		Little Klickitat	Klickitat	4.3	Rb	133	east fork of Mill Creek; off closed road on way to west side of Devils Canyon
11/12		Little Klickitat	Klickitat		Rb		east fork of Mill Creek; off closed road on way to west side of Devils Canyon
		Little Klickitat	Klickitat	4.3	Rb	104	
11/12		Little Klickitat	Klickitat		Rb	80	east fork of Mill Creek; off closed road on way to west side of Devils Canyon
11/12		Little Klickitat	Klickitat		Rb	47	east fork of Mill Creek; off closed road on way to west side of Devils Canyon
		Little Klickitat	Klickitat	4.3	Rb	82	east fork of Mill Creek; off closed road on way to west side of Devils Canyon
11/12		Little Klickitat	Klickitat	4.3	Rb		east fork of Mill Creek; off closed road on way to west side of Devils Canyon
11/12		Little Klickitat	Klickitat		Rb	87	east fork of Mill Creek; off closed road on way to west side of Devils Canyon
11/12		Little Klickitat	Klickitat	4.3	Rb	158	east fork of Mill Creek; off closed road on way to west side of Devils Canyon
		Little Klickitat	Klickitat	4.3	Rb		east fork of Mill Creek; off closed road on way to west side of Devils Canyon
		Little Klickitat	Klickitat	4.3	Rb		east fork of Mill Creek; off closed road on way to west side of Devils Canyon
11/12	Mill	Little Klickitat	Klickitat	4.3	Rb	126	east fork of Mill Creek; off closed road on way to west side of Devils Canyon
11/12	Mill	Little Klickitat	Klickitat	4.3	Rb	126	east fork of Mill Creek; off closed road on way to west side of Devils Canyon
11/12	Mill	Little Klickitat	Klickitat	4.3	Rb	90	east fork of Mill Creek; off closed road on way to west side of Devils Canyon
		Little Klickitat	Klickitat	4.3	Rb	103	east fork of Mill Creek; off closed road on way to west side of Devils Canyon
11/12		Little Klickitat	Klickitat		Rb	115	east fork of Mill Creek; off closed road on way to west side of Devils Canyon
		Little Klickitat	Klickitat		Rb	100	east fork of Mill Creek; off closed road on way to west side of Devils Canyon
11/12		Little Klickitat	Klickitat	4.3	Rb	82	east fork of Mill Creek; off closed road on way to west side of Devils Canyon
11/12		Little Klickitat	Klickitat	4.3	Rb	119	east fork of Mill Creek; off closed road on way to west side of Devils Canyon
		Little Klickitat	Klickitat	4.3	Rb	67	east fork of Mill Creek; off closed road on way to west side of Devils Canyon
11/12		Little Klickitat	Klickitat			76	east fork of Mill Creek; off closed road on way to west side of Devils Canyon
	Chaparral	Klickitat	Klickitat	11.7		72	
	Chaparral	Klickitat	Klickitat	11.7		53	
	Chaparral	Klickitat	Klickitat	11.7		130	
	Chaparral	Klickitat	Klickitat	11.7		63	
	Chaparral	Klickitat	Klickitat		Rb	58	
	Chaparral	Klickitat	Klickitat		Rb	73	
	Chaparral Chaparral	Klickitat Klickitat	Klickitat Klickitat	11.7 11.7		81 52	
	Chaparral	Klickitat	Klickitat		Rb	75	
	Chaparral	Klickitat	Klickitat		Rb	76	
	Chaparral	Klickitat	Klickitat	11.7		87	
	Chaparral	Klickitat	Klickitat	11.7		53	
	Chaparral	Klickitat	Klickitat		Rb	53	
	Chaparral	Klickitat	Klickitat	11.7		58	
	Chaparral	Klickitat	Klickitat		Rb	60	
	Chaparral	Klickitat	Klickitat		Rb	57	
	Chaparral	Klickitat	Klickitat		Rb	98	
	Chaparral	Klickitat	Klickitat	11.7		53	
	Chaparral	Klickitat	Klickitat		Rb	78	
	Chaparral	Klickitat	Klickitat	11.7		31	
	Chaparral	Klickitat	Klickitat		Rb	32	
	Chaparral	Klickitat	Klickitat	11.7		57	
	Chaparral	Klickitat	Klickitat		Rb	74	
8/28	Chaparral	Klickitat	Klickitat		Rb	58	
0.400	Chaparral	Klickitat	Klickitat		Rb	97	
8/28	Onapanai						

Appendix C. Electroshock data from streams in the Klickitat and White Salmon river basins, 2001.

8/27	Klickitat	Columbia	Klickitat	11.7	Rb		shocked 2 Rbs
	Unnamed	Klickitat	Klickitat		Rb		shocked 9 Rbs (4 fry, 4 parr, 1 <150)
	Unnamed	Klickitat	Klickitat		Bk	95	31100100 0 1103 (4 11), 4 part, 1 < 100)
	Piscoe	Klickitat	Klickitat		Rb		upper Piscoe off Piscoe Creek Rd.
	Piscoe	Klickitat	Klickitat		Rb		upper Piscoe off Piscoe Creek Rd.
	Piscoe	Klickitat	Klickitat		Rb		upper Piscoe off Piscoe Creek Rd.
	Piscoe	Klickitat	Klickitat		Rb		upper Piscoe off Piscoe Creek Rd.
	Piscoe	Klickitat	Klickitat	15	Rb		upper Piscoe off Piscoe Creek Rd.
	Piscoe	Klickitat	Klickitat		Rb		upper Piscoe off Piscoe Creek Rd.
	Piscoe	Klickitat	Klickitat	15	Rb		upper Piscoe off Piscoe Creek Rd.
	Piscoe	Klickitat	Klickitat	15	Rb		upper Piscoe off Piscoe Creek Rd.
	Piscoe	Klickitat	Klickitat		Rb		upper Piscoe off Piscoe Creek Rd.
	Piscoe	Klickitat	Klickitat	15	Rb		upper Piscoe off Piscoe Creek Rd.
	Piscoe	Klickitat	Klickitat		Rb		upper Piscoe off Piscoe Creek Rd.
	Piscoe	Klickitat	Klickitat	15	Rb		upper Piscoe off Piscoe Creek Rd.
	Piscoe	Klickitat	Klickitat		Rb		upper Piscoe off Piscoe Creek Rd.
	Piscoe	Klickitat	Klickitat	15	Rb		upper Piscoe off Piscoe Creek Rd.
	Piscoe	Klickitat	Klickitat	15	Rb		upper Piscoe off Piscoe Creek Rd.
	Piscoe	Klickitat	Klickitat	15	Rb	95	upper Piscoe off Piscoe Creek Rd.
	Piscoe	Klickitat	Klickitat		Rb	97	upper Piscoe off Piscoe Creek Rd.
	Piscoe	Klickitat	Klickitat	15	Rb		upper Piscoe off Piscoe Creek Rd.
	Piscoe	Klickitat	Klickitat	15	Rb		upper Piscoe off Piscoe Creek Rd.
	Piscoe	Klickitat	Klickitat	15	Rb	67	upper Piscoe off Piscoe Creek Rd.
	Piscoe	Klickitat	Klickitat	15	Rb	75	
	Piscoe	Klickitat	Klickitat	15	Rb	78	upper Piscoe off Piscoe Creek Rd.
	Piscoe	Klickitat	Klickitat	15	Rb		upper Piscoe off Piscoe Creek Rd.
8/15	Piscoe	Klickitat	Klickitat	15	Rb	111	upper Piscoe off Piscoe Creek Rd.
	Piscoe	Klickitat	Klickitat	15	Rb	154	
	Piscoe	Klickitat	Klickitat		Rb	113	upper Piscoe off Piscoe Creek Rd.
8/15	Piscoe	Klickitat	Klickitat	15	Rb	97	upper Piscoe off Piscoe Creek Rd.
8/15	Piscoe	Klickitat	Klickitat	15	Rb	97	upper Piscoe off Piscoe Creek Rd.
	Piscoe	Klickitat	Klickitat		Rb	118	upper Piscoe off Piscoe Creek Rd.
	Piscoe	Klickitat	Klickitat	15	Rb		upper Piscoe off Piscoe Creek Rd.
8/15	Piscoe	Klickitat	Klickitat	15	Rb		upper Piscoe off Piscoe Creek Rd.
8/15	Piscoe	Klickitat	Klickitat	15	Rb	64	upper Piscoe off Piscoe Creek Rd.
8/15	Piscoe	Klickitat	Klickitat	15	Rb	118	upper Piscoe off Piscoe Creek Rd.
8/15	Piscoe	Klickitat	Klickitat	15	Rb		upper Piscoe off Piscoe Creek Rd.
8/15	Piscoe	Klickitat	Klickitat	15	Rb	72	upper Piscoe off Piscoe Creek Rd.
8/15	Piscoe	Klickitat	Klickitat		Rb	67	upper Piscoe off Piscoe Creek Rd.
8/15	Piscoe	Klickitat	Klickitat	15	Rb	61	upper Piscoe off Piscoe Creek Rd.
8/15	Piscoe	Klickitat	Klickitat	15	Rb	74	upper Piscoe off Piscoe Creek Rd.
	Piscoe	Klickitat	Klickitat	15	Rb	62	upper Piscoe off Piscoe Creek Rd.
8/15	Piscoe	Klickitat	Klickitat	15	Rb	107	upper Piscoe off Piscoe Creek Rd.
8/15	Piscoe	Klickitat	Klickitat	15	Rb	130	upper Piscoe off Piscoe Creek Rd.
	Piscoe	Klickitat	Klickitat	15	Rb	93	upper Piscoe off Piscoe Creek Rd.
8/15	Piscoe	Klickitat	Klickitat		Rb	82	upper Piscoe off Piscoe Creek Rd.
8/15	Piscoe	Klickitat	Klickitat	15	Rb		upper Piscoe off Piscoe Creek Rd.
8/15	Piscoe	Klickitat	Klickitat	15	Rb	122	upper Piscoe off Piscoe Creek Rd.
8/15	Piscoe	Klickitat	Klickitat	15	Rb	70	upper Piscoe off Piscoe Creek Rd.
	Piscoe	Klickitat	Klickitat		Rb		upper Piscoe off Piscoe Creek Rd.
8/15	Piscoe	Klickitat	Klickitat	15	Rb	87	upper Piscoe off Piscoe Creek Rd.