





# EVALUATION OF IDAHO STEELHEAD HARVEST FOR LOWER SNAKE RIVER COMPENSATION PLAN HATCHERY PROGRAMS

**Project Progress Report** 

Report Period September 2001 to April 2004



Jon Hansen Senior Fishery Research Biologist

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# Evaluation of Idaho Steelhead Harvest for Lower Snake River Compensation Plan Hatchery Programs

# September 2001 to April 2004 Annual Report

Ву

Jon Hansen

Idaho Department of Fish and Game Anadromous Fisheries Harvest Management Program P.O. Box 25 Boise, ID 83707

To

U.S. Fish and Wildlife Service Lower Snake River Compensation Plan Office 1387 S. Vinnell Way, Suite 343 Boise, ID 83709

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#### **ABSTRACT**

We interviewed 31,989 steelhead anglers, which was the third greatest number of anglers sampled since the start of the program. Anglers fished a greater number of hours and caught and released more fish during the 2001–2002 fishing seasons compared to other years. Also, we checked more fish for marks during the 2001–2002 fishing seasons compared to other years. The mean number of hours anglers fished per fish kept and caught was similar for the 2001–2004 run years, even though reductions in steelhead counts at dams occurred during the same period of time.

The number of snouts Clearwater River anglers failed to relinquish was in the 1% to 6% range, which was similar to other sample areas. The 22% snout refusal value that occurred on the Clearwater River during the fall of 2003 was associated with minimal sample numbers.

Three quarters of A-stock steelhead reared by Lower Snake River Compensation Plan (LSRCP) hatchery facilities and caught in the fishery were 1-ocean in age. The lengths of A-stock steelhead reared by Magic Valley Fish Hatchery (MVFH) and Hagerman National Fish Hatchery (HNFH) and caught in the fishery were identical and fell within predetermined program age—length categories. Sex ratios of male to female A-stock fish were similar for MVFH and HNFH

We noticed dissimilarities among rearing facilities regarding the ocean age of B-stock steelhead caught in the fishery. Almost three times more MVFH-reared B-stock 1-ocean steelhead were caught in the fishery compared to CFH. Additionally, the sex ratios of MVFH-reared B-stock steelhead show a greater portion of males were recovered in the fishery compared to fish reared by CFH.

Most B-stock steelhead recovered in the fishery fell into predetermined age-length categories. However, MVFH 2-ocean B-stock males returning during 2003–2004 were small, CFH B-stock 1-ocean males returning during 2001–2002 were large, and CFH B-stock 1-ocean females returning during 2001–2003 were large compared to program age-length categories.

Anglers harvested record numbers of steelhead in Idaho during the 2001–2002, 2002–2003, and 2003–2004 run years. Statewide steelhead harvest estimates show approximately 243,157 steelhead were harvested by Idaho anglers over a three-year period of time.

The portion of fish harvested in River Sections 01—13 has increased from 53% to approximately 65% of the total statewide harvest since 2001. At the same time, the number of fish we checked for marks did not change proportionally. Consequently, our sample rate has continued to decline in lower reaches of main stem rivers.

Approximately 64,205 LSRCP–reared hatchery steelhead were harvested by anglers in Idaho beginning in fall of 2001–spring of 2004. We estimated hatchery contribution to the fishery for HNFH, MVFH, and Clearwater Fish Hatchery (CFH) to be 21,684, 33,753, and 8,768 steelhead, respectively, for the fall 2001–spring 2004 seasons. Magic Valley Fish Hatchery produced 52.6% of the steelhead in the LSRCP–reared portion of the Idaho harvest.

Counts of natural and hatchery A- and B-stock steelhead at Bonneville Dam and Lower Granite Dam were at the greatest level since the mid 1970s during the 2001 run year. Thereafter, counts of natural and hatchery A- and B-stock steelhead at Bonneville Dam and Lower Granite Dam declined during the 2002 and 2003 run years. Unclipped hatchery A- and B-

stock steelhead composed approximately 8% of the run crossing Lower Granite Dam during the 2002-2003 run year.
Author:
Jon Hansen Senior Fishery Research Biologist

#### INTRODUCTION

The purpose of this multiyear report is to provide a summary of creel data regarding steelhead *Oncorhynchus mykiss* that were reared in Idaho by Lower Snake River Compensation Plan (LSRCP) hatcheries and later harvested by Idaho sport anglers. In Idaho, Idaho's Department of Fish and Game's (IDFG) Harvest Management Program (HMP) is tasked with collecting this data for non-tribal sport anglers. Additionally, we incorporate statewide steelhead harvest (SWH) estimates into our analysis and distribute to IDFG programs and the angling public data regarding counts of wild-natural steelhead, hatchery steelhead, and A- and B-stocks of steelhead at Bonneville Dam and Lower Granite Dam and Idaho's catch effort and success.

We conduct angler creel on portions of the Clearwater River, South Fork of the Clearwater River, Snake River, Salmon River, and the Little Salmon River in Idaho. Our main objective for collecting creel information is to recover coded wire tags (CWT) from LSRCP hatchery release groups. A secondary objective is to sample anglers for estimates of catch effort and success. An angler survey is conducted by mail by IDFG after each season to acquire information regarding overall angler harvest (SWH) and portions of wild-natural fish versus hatchery fish caught by anglers during the fishery. We use the SWH estimates and CWT data to develop estimates of fishery contribution for Hagerman National Fish Hatchery (HNFH) Magic Valley Fish Hatchery (MVFH), and Clearwater Fish Hatchery (CFH). We are able to identify which hatchery reared a particular angler caught steelhead, the river section where the fish was caught, the time of year the fish was caught, the size and sex of the fish, stock origin, and age of the fish.

The combined steelhead harvest and fish hatchery or in-river return data generated by our program provide conservative estimates of total returns for particular release groups. Our program provides steelhead harvest data to the IDFG Hatchery Evaluation Program (HEP) located in Nampa, Idaho, for further analysis.

Our data is organized by major river system, river section, and rearing facility. General summary tables are listed in the text with more detailed information provided in the appendices.

#### **OBJECTIVES**

- 1) Estimate the numbers of LSRCP-reared hatchery steelhead and wild/natural steelhead recovered in the fishery and overall LSRCP-reared hatchery returns to Idaho. Estimate the number of wild/natural and hatchery A- and B-stock steelhead returning to Bonneville Dam and Lower Granite Dam.
- 2) Collect and provide harvest and biological data of returning adult LSRCP-reared steelhead for the purpose of informing the angling public and maximizing fishery benefits to the State of Idaho.
- 3) Identify and analyze data and relationships that will assist managers regarding the continuing development of LSRCP steelhead harvest management plans.

## **DESCRIPTION OF THE STUDY AREA**

The LSRCP program releases juvenile steelhead into the Salmon River drainage and Clearwater River drainage. Consequently, Idaho's harvest of LSRCP produced steelhead occurs in the Snake River, Clearwater River, South Fork of the Clearwater River, Salmon River, and the Little Salmon River.

Table 1. River section location codes for steelhead fisheries surveyed for the LSRCP program in Idaho.

River Section	Location Code
Snake River, below Salmon River	01
Clearwater River, below Orofino Bridge	03
Clearwater River, above Orofino Bridge	04
North Fork Clearwater River	05
South Fork Clearwater River	07
Salmon River, below Whitebird Creek	10
Salmon River, Whitebird Creek to Little Salmon	11
Salmon River, Little Salmon to Vinegar Creek	12
Salmon River, Vinegar Creek to South Fork	13
Salmon River, South Fork to Middle Fork	14
Salmon River, Middle Fork to North Fork	15
Salmon River, North Fork to Lemhi River	16
Salmon River, Lemhi River to Pahsimeroi River	17
Salmon River, Pahsimeroi River to East Fork	18
Salmon River, above East Fork	19
Little Salmon River	20

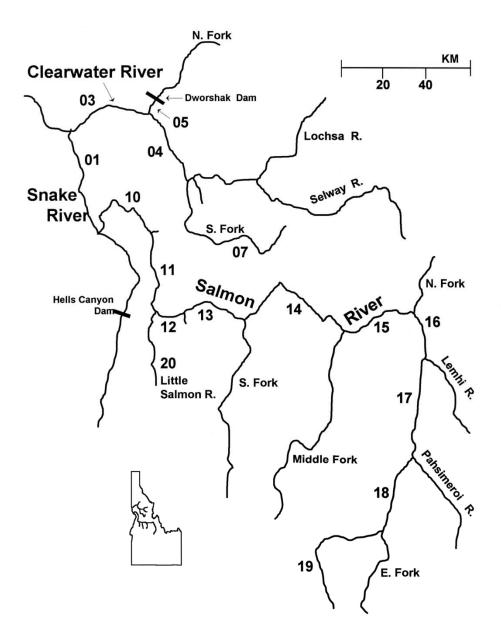


Figure 1. Map of steelhead harvest areas surveyed for the Lower Snake River Compensation Program by Idaho Department of Fish and Game.

#### **METHODS**

## **Creel Survey**

We conduct interviews of Idaho licensed anglers at check stations from jet boats and from roving vehicles. Our angler interview schedules are designed to observe the maximum numbers of fish harvested. Technicians typically use a jet boat to survey anglers on the Clearwater River during the fall and winter months. In spring, we often conduct creel checks at boat ramps along the Clearwater River because of increased boat density. We use check stations and roving techniques to census anglers fishing in the lower and upper Salmon River portions of the project. We use surveys conducted at boat ramps, and occasionally from a jet boat, to census anglers on the Snake River.

The data we collect from anglers during creel surveys includes the number of anglers and hours fished, the number of fish kept or released, wild or hatchery origin of fish kept and released, fork length and sex of fish kept, and the date and river sections where fish were caught. Creel personnel inspect fish for tags and marks. We remove snouts if our CWT wand signals a positive detection and upon the angler's approval.

Water conditions during the fall season are usually conducive to harvest, and the interview schedule can be followed. However, anglers may encounter harsh weather and poor water conditions during winter and spring months. We did not attempt to interview anglers during periods of low harvest, as the additional data does not significantly increase our monthly sample rates.

#### **Data Analysis**

We acquired release numbers of juvenile steelhead reared at LSRCP facilities from the HEP. Hatchery Evaluation Program personnel subtract prerelease shed CWT and mortalities from juvenile release numbers before they provide estimates to our program. We acquired release numbers of juvenile steelhead from non-LSRCP programs from the Regional Mark Information System (RMIS) CWT database, located in Portland, Oregon, and the United States Fish and Wildlife Service's Idaho Fishery Resource Office, located in Ahsahka, Idaho. We obtained adult CWT recovery data from queries of the CWT Recovery Database maintained by the HEP.

All sample and harvest estimates were grouped by river section and month. We developed a sample rate for each unique CWT code with the algorithm

$$SR = \frac{Tmr}{SWHmr}$$

where SR is the sample rate, T is equal to the total number of fish checked for marks in a particular strata, m is equal to the strata month, r is equal to the strata river section, and SWH is equal to the estimate of total harvest for the corresponding month and river section (or strata) where the CWT was recovered. SWH estimates were developed from a random sample of Idaho licensed steelhead permit holders via a mail survey conducted by IDFG.

We created harvest estimates by CWT tag group by expanding recoveries with the algorithm

$$H = \sum \left(\frac{Tmr}{SRmr}\right)$$

where H is equal to the harvest for a unique CWT tag code, T is the number of tags for a unique CWT code, m is equal to the month the tag was recovered, r is equal to the river section where the tag was recovered, and SR is the sample rate.

We developed estimates of harvest for unmarked fish release groups with the algorithm

$$HU = \left(\frac{\sum MH}{\sum MR}\right) UR$$

where H is equal to harvest, U is equal to unmarked fish, M is the associated marked fish group or groups, and R is the number of fish released. Where possible, we tried to associate marked and unmarked groups of fish with similar rearing histories, stock origin, special diets, and experimental studies. In some cases, unmarked fish were released without an associated mark group. Occasionally, we used non-LSRCP mark groups to estimate harvest of unmarked LSRCP release groups if no LSRCP marked fish were released within the proximity of unmarked groups.

Hatchery personnel provided hatchery facility counts of fish returning to various hatcheries. We used CWT return rates at hatchery racks to estimate in-river returns of offsite released fish and to distribute unmarked fish returning to hatcheries among the various hatchery release groups. Often, there is a discrepancy between the estimated number of returning unmarked fish based on CWT return rates and the actual number provided by hatchery personnel. When this occurs, we distribute the error among the unmarked release groups based upon the original estimated proportions.

We calculated an exploitation rate, expressed as a decimal, for each individual release group for which we developed a harvest estimate with the following algorithm:

$$ER = \frac{H}{TR}$$

where ER is equal to the exploitation rate, H is our estimate of harvest, and TR is total returns.

Occasionally, we recover 4-year-old A-stock or 5-year-old B-stock fish during creel. It requires considerable effort to track these groups and provide estimates of harvest and adult returns by release year. Additionally, we do not know if the fish held over in the ocean or freshwater. Therefore, survival rates for older A-strain and B-strain fish may be unique compared to "typical" groups. To simplify things, we do include these fish in our sample rate calculations. However, we do not provide estimates of total returns or survival for these fish. We do list unexpanded recoveries of "unusual" fish in the appendices.

Beginning in release year 2000, a portion of steelhead reared by LSRCP hatchery facilities were released with intact adipose fins based on decisions by fish managers. We did not attempt to track fish without an adipose fin clip, as they are unavailable to non-tribal member fisheries. We did list the release site, number of fish released, and rearing facility of non-adipose clipped steelhead in the appendices.

## **Escapement at Dams**

We obtained steelhead sample data at Bonneville Dam and Lower Granite Dam from fisheries personnel from Oregon Department of Fish and Wildlife (ODFW) and National Marine Fisheries Service (NMFS), respectively. Personnel sampled fish at Bonneville Dam from April 1 to November 15, 2000. Personnel sampled fish at Lower Granite Dam from June 1 to December 15, 2000 and March 1 to May 31, 2001. We collected our total dam count values from the United States Army Corps of Engineers internet site located at <a href="http://www.nwp.usace.army.mil/op/fishdata/home.asp">http://www.nwp.usace.army.mil/op/fishdata/home.asp</a>.

We categorized steelhead as A-stock (<78 cm FL) natural, hatchery fish, or unclipped adipose fin hatchery fish or B-stock (≥78 cm FL) natural, hatchery fish or unclipped adipose fin hatchery fish at Bonneville Dam and Lower Granite Dam. Fish were placed into length and disposition categories based on sampling that occurred at each hydro project. We did not adjust for size overlap between groups after they were separated by category, because our current model estimates a negative number of fish if we encounter low escapement values. For a more detailed discussion regarding dam counts and overlap adjustments, see Ball and White (2001).

#### **RESULTS**

#### **Creel Survey**

We interviewed 31,989, 23,289, and 24,491 anglers that fished a total of 204,931, 152,892.3, and 149,805.5 hours during the 2001–2002, 2002–2003, and 2003–2004 fishing seasons, respectively (Table 2). Anglers kept 12,791, 7,427, and 6,870 fish during 2001–2002, 2002–2003, and 2003–2004, respectively. We examined 11,748, 6,769, and 6,034 fish for CWT during 2001–2002, 2002–2003, and 2003–2004, respectively. Also, anglers released 5,990, 2,840, and 2,060 hatchery and 4,800, 7,328, and 5,562 wild fish during 2001–2002, 2002–2003, and 2003–2004, respectively. Anglers averaged 9, 9, and 10 hours per fish caught and 16, 21, and 22 hours per fish kept during 2001–2002, 2002–2003, and 2003–2004 fishing seasons, respectively. We provided monthly summaries of creel data for fall and spring seasons in Appendix A.

#### **Biodata**

We determined the age, length, and stock composition of 451, 202, and 105 A-stock fish and 56, 58, and 35 B-stock fish reared by MVFH based on CWT recovered during the 2001–2002, 2002–2003, and 2003–2004 fisheries, respectively (Table 3). The ocean age of A-stock fish consisted of 75% 1-ocean fish and 25% 2-ocean fish based on combined ocean years. The ocean age of B-stock fish, based on combined fishery years, consisted of 24% 1-ocean fish, 75% 2-ocean fish, and 1% 3-ocean fish. The sex ratios of male to female fish were 1:1.1, 1:0.9, and 1:1.8, for A-stock fish and 1:1.3, 1:1.1, and 1:1.2, for B-stock fish, respectively, for 2001–2002, 2002–2003, and 2003–2004, respectively. The mean length of 1-ocean A-stock male fish was 62 cm, 60 cm, and 58 cm for fish recovered during 2001–2002, 2002–2003, and 2003–

2004, respectively, compared to program age-length criteria of <68 cm. The mean length of 1ocean A-stock female fish was 60 cm, 58 cm, and 57 cm, respectively, for fish recovered during 2001–2002, 2002–2003, and 2003–2004, respectively, compared to program age-length criteria of ≤65 cm. The mean length of 2-ocean A-stock male fish was 74 cm, 68 cm, and 69 cm, respectively, for fish recovered during 2001-2002, 2002-2003, and 2003-2004, respectively, compared to program age-length criteria of ≥68 cm. The mean length of 2-ocean A-stock female fish was 70 cm, 70 cm, and 68 cm, respectively, for fish recovered during 2001-2002, 2002–2003, and 2003–2004, respectively, compared to program age-length criteria of >65 cm. The mean length of 1-ocean B-stock male fish was 67 cm, 65 cm, and 60 cm, for fish recovered during 2001-2002, 2002-2003, and 2003-2004, respectively. The mean length of 1-ocean Bstock female fish was 63 cm and 62 cm, respectively, for fish recovered during 2002-2003 and 2003-2004, respectively. The mean length of 2-ocean B-stock male fish was 80 cm, 83 cm, and 75 cm for fish recovered during 2001–2002, 2002–2003, and 2003–2004, respectively, compared to program age-length criteria of >79 cm. The mean length of 2-ocean B-stock female fish was 78 cm, 80 cm, and 76 cm, respectively, for fish recovered during 2001-2002, 2002–2003, and 2003–2004, respectively, compared to program age-length criteria of >75 cm.

We determined the age, length, and stock composition of 538, 79, and 33 A-stock fish reared by HNFH based on CWT recovered during the fall 2001–spring 2004 fisheries, respectively. The ocean age of A-stock fish consisted of 76% 1-ocean fish and 24% 2-ocean fish based on combined ocean years. The sex ratios of male to female fish were 1:1.3, 1:1.6, and 1:1.1 for the 2001–2004 fishing seasons, respectively. The mean length of 1-ocean A-stock male fish was 62 cm, 60 cm, and 58 cm for fish recovered during 2001–2002, 2002–2003, and 2003–2004, respectively, compared to program age–length criteria of <68 cm. The mean length of 1-ocean A-stock female fish was 60 cm, 61 cm, and 60 cm for fish recovered during 2001–2002, 2002–2003, and 2003–2004, respectively, compared to program age–length criteria of ≤65 cm. The mean length of 2-ocean A-stock male fish was 73 cm, 75 cm, and 70 cm for fish recovered during 2001–2002, 2002–2003, and 2003–2004, respectively, compared to program age–length criteria of ≥68 cm. The mean length of 2-ocean A-stock female fish was 70 cm, 71 cm, and 66 cm, respectively, for fish recovered during 2001–2002, 2002–2003, and 2003–2004, respectively, compared to age–length criteria of >65 cm.

We determined the age, length and stock composition of 40, 58, and 41 B-stock fish reared by CFH based on CWT recovered during the fall 2001–spring 2004 fisheries, respectively. The ocean age of B-stock fish consisted of 9% 1-ocean fish, 87% 2-ocean fish, and 4% 3-ocean fish based on combined ocean years. The sex ratios of male to female fish were 1:1.9, 1:1.2, and 1:1.9, for the 2001–2004 fishing seasons. The mean length of 1-ocean B-stock male fish was 75 cm, 72 cm, and 70 cm for fish recovered during 2001–2002, 2002–2003, and 2003–2004, respectively, compared to program age–length criteria of ≤73 cm. The mean length of 1-ocean B-stock female fish was 74 cm and 70 cm for fish recovered during 2001–2002 and 2002-2003, respectively, compared to the age–length criteria of ≤68 cm. The mean length of 2-ocean B-stock male fish was 89 cm, 92 cm, and 91 cm for fish recovered during 2001–2002, 2002–2003, and 2003–2004, respectively, compared to program age–length criteria of >73 cm. The mean length of 2-ocean B-stock female fish was 78 cm, 80 cm, and 76 cm for fish recovered during 2001–2002, 2002–2003, and 2003–2004, respectively, compared to program age–length criteria of >68 cm.

Statewide, we recovered CWT from 486, 191, and 84 males and 599, 195, and 130 females during the fall 2001–spring 2004 fisheries, respectively. The stock composition consisted of 1,408 A-stock fish and 288 B-stock fish for combined years. We recovered 16 B-

stock CWT fish from the Snake River, 135 B-stock CWT fish from the Salmon River, and 137 B-stock CWT fish from the Clearwater River (Appendix B).

#### <u>Harvest</u>

Anglers kept approximately 100,184, 81,406, and 61,567 LSRCP-reared and non-LSRCP-reared steelhead during 2001–2002, 2002–2003, and 2003–2004, respectively, based on the SWH estimates (Table 4). November was the most productive fall month for anglers. March was the most productive spring month for anglers with the exception of spring of 2002 when anglers harvested more fish during the month of April. Anglers harvested approximately 14,734, 8,635, and 7,092 steelhead from the Snake River; 25,196, 30,111, and 22,071 steelhead from the Clearwater River; and 60,254, 42,660, and 32,404 steelhead from the Salmon River during 2001–2002, 2002–2003, and 2003–2004, respectively.

We provided creel sample rate values by river section and month in Table 5. Our mean annual sample rate values were 12.6%, 7.8%, and 9.6% for all combined river sections for 2001–2002, 2002–2003, and 2003–2004, respectively. Sample rate values ranged from zero for sections 10 and 02 to 29.5% for section 15. Mean sample rate values for the Clearwater River, Snake River, and lower Salmon River were typically less compared to mean statewide values, while sample rate values for the upper Salmon River were typically greater compared to mean statewide values.

We reported estimated harvest of LSRCP-reared steelhead by CWT group in Appendix C. We recovered 540, 79, and 34 CWT from A-stock mark groups reared by HNFH during 2001–2002, 2002–2003, and 2003–2004, respectively. We recovered 451, 201, and 105 CWT from A-stock mark groups and 57, 60, and 35 CWT from B-stock mark groups reared by MVFH during 2001–2002, 2002–2003, and 2003–2004, respectively. We recovered 40, 58, and 41 CWT from B-stock mark groups reared by CFH during 2001–2002, 2002–2003, and 2003–2004, respectively.

We estimated anglers harvested 23,531, 28,730, and 11,944 LSRCP-reared steelhead from all combined rearing facilities during 2001–2002, 2002–2003, and 2003–2004, respectively (Table 6). Our estimated exploitation rates ranged from 42% to 89% for combined run years.

Table 2. Summary of steelhead fishery interview data (unexpanded) from the lower Snake River, the Clearwater River, and the Salmon River, September 2001–April 2004. Only interviews of anglers using an Idaho license were included.

Fighing Consess	NI-	Total	Ota alla a = -1	Steelh		Tatal	Hours	Hours	Ole a also d	On 2015	Snouts
Fishing Season River	No. Anglers	Hours Fished	Steelhead Kept	Releas Hatchery	sea Wild <sup>a</sup>	Total Catch	Per Fish Caught	Per Fish Kept	Checked For CWT	Snouts Taken	Not Taken
Fall 2001											
Snake River Snake River	994	5,425	382	55	253	690	8	14	316	39	0
WDFW data <sup>b</sup>	342	2,108	224	20	145	389	5	9	224		
Clearwater River	3,904	14,624	745	102	333	1,180	12	20	694	37	6
Salmon River	9,460	80,408	5,076	2,285	1,710	9,071	9	16	4,829	795	12
Fall Totals	14,700	102,565	6,427	2,462	2,441	11,330	9	16	6,063	871	18
Spring 2002											
Snake River											
WDFW data <sup>b</sup>	39	241	25	0	16	41	6	10	25		
Clearwater River	5,596	23,043	1,447	410	439	2,296	10	16	1,175	72	2
Salmon River	11,654	79,082	4,892	3,118	1,904	9,914	8	16	4,485	638	47
Spring Totals	17,289	102,366	6,364	3,528	2,359	12,251	8	16	5,685	710	49
IDFG Interview	04.000	000 500	10.510	5.070	4 000	00.454		40	11 100	4.504	07
Totals	31,608	202,582	12,542	5,970	4,639	23,151	9	16	11,499	1,581	67
2001-2002 Totals	31,989	204,931	12,791	5,990	4,800	23,581	9	16	11,748	1,581	67
Fall 2002											
Snake River Snake River	1,419	8,534.5	442	36	329	807	11	19	390	70	2
WDFW data <sup>b</sup>	234	1,428.5	111	8	124	243	6	13	111	16	
Clearwater River	1,937	8,055.5	478	74	279	831	10	17	430	30	2
Salmon River	8,372	65,301.5	2,502	691	1,680	4,873	13	26	2,300	286	17
Fall Totals	11,962	83,320	3,533	809	2,412	6,754	12	24	3,231	402	21

Table 2. Continued.

Table 2. Continued.		Total	04 !! :	Steelh			Hours	Hours	<b>0</b> 1 · ·	<b>a</b> .	Snouts
Fishing Season River	No. Anglers	Hours Fished	Steelhead Kept	Release Hatchery	sed Wild <sup>a</sup>	Total Catch	Per Fish Caught	Per Fish Kept	Checked For CWT	Snouts Taken	Not Taken
Spring 2003	J		•	•			J	•			
Clearwater River Salmon River	4,076 7,251	20,095.5 49,476.8	1,388 2,506	380 1,651	1,686 3,230	3,454 7,387	6 7	14 20	1,242 2,296	98 265	4 12
Spring Totals	11,327	69,572.3	3,894	2,031	4,916	10,841	6	18	3,538	363	16
IDFG Interview Totals	23,055	151,464	7,316	2,832	7,204	17,352	9	21	6,658	749	37
2002-2003 Totals	23,289	152,892.3	7,427	2,840	7,328	17,595	9	21	6,769	765	37
Fall 2003											
Snake River Snake River	721	5,042	424	78	321	823	6	12	297	48	1
WDFW data <sup>b</sup> Clearwater River Salmon River	163 2,264 7,886	963.5 9,011.5 59,054.3	131 552 2,335	6 58 525	131 255 1,605	256 865 4,465	4 10 13	7 16 25	131 522 2,088	18 28 141	8 5
Fall Totals	11,034	74,071.3	3,442	667	2,312	6,409	12	22	3,038	235	14
<u>Spring 2004</u>											
Snake River WDFW data <sup>b</sup> Clearwater River Salmon River	55 4,365 9,037	346.3 19,500 55,888	27 807 2,594	3 207 1,183	44 1,074 2,132	74 2,088 5,909	5 9 9	13 24 22	27 708 2,261	2 54 128	 1 9
Spring Totals	13,457	75,734.3	3,428	1,393	3,250	8,071	9	22	2,996	184	10
IDFG Interview Totals	24,273	148,495.5	6,712	2,051	5,387	14,150	10	22	5,876	399	24
2003-2004 Totals	24,491	149,805.5	6,870	2,060	5,562	14,480	10	22	6,034	419	24

Includes hatchery-produced steelhead with intact adipose fins.

Some Snake River creel data from fall 2001–spring spring 2004 collected by Washington Department of Fish and Wildlife personnel.

Table 3. Age composition and mean fork length (± 95% confidence intervals) of known-age, coded-wire-tagged hatchery fish sampled during creel surveys of the Snake River, Clearwater River, and Salmon River during the 2001–2002, 2002–2003, and 2003–2004 run years. Fish are separated by rearing hatchery and run year.

Run Year <sup>a</sup>	Sex	Sample Size	Male- Female Ratio	Age Compos	sition by Stock	-Ocean Age	Mean Fork L	ength ( cm) by a	Stock-Ocean
				Magic	Valley Fish Ha	tchery			
		N		<u>A-1</u> N (%)	<u>A-2</u> N (%)		<u>A-1</u>	<u>A-2</u>	
2001-2002	Males Females Subtotal	213 238 451	1:1.1	175 (82%) 169 (71%) 344 (76%)	38 (18%) 69 (29%) 107 (24%)		62±1 60±1 61±1	74±1 70±1 72±1	
2002-2003 <sup>b</sup>	Males Females Subtotal	107 95 202	1:0.9	101 (94%) 72 (76%) 173 (86%)	6 (6%) 23 (24%) 29 (14%)		60±1 58±1 60±1	68±6 70±2 70±2	
2003-2004	Males Females Subtotal	38 67 105	1:1.8	18 (47%) 30 (45%) 48 (46%)	20 (53%) 37 (55%) 57 (54%)		58±2 57±1 57±1	69±3 68±1 68±1	
Hatchery Totals	Males Females Total	358 400 758	1:1.1	294 (82%) 271 (68%) 565 (75%)	64 (18%) 129 (32%) 193 (25%)				
		N		<u>B-1</u> N (%)	<u>B-2</u> N (%)	<u>B-3</u> N (%)	<u>B-1</u>	<u>B-2</u>	<u>B-3</u>
2001-2002 <sup>c</sup>	Males Females Subtotal	24 32 56	1:1.3	2 (8%) 0 (0%) 2 (4%)	22 (92%) 32 (100%) 54 (96%)	0 (0%) 0 (0%) 0 (0%)	67±12 - 67±12	80±5 78±1 79±2	- - -

Table 3. Continued.

Dur Voor <sup>a</sup>		Sample	Male- Female	Ama Carrer	aitian ber Ota el	Occar Ass	Mean Fork L	ength ( cm) by	Stock-Ocean
Run Year <sup>a</sup>	Sex	Size	Ratio	Age Compos	sition by Stock	-Ocean Age		Age	
2002-2003									
2002 2000	Males	28		10 (36%)	17 (60%)	1 (4%)	65±4	83±3	97
	Females	30		15 (50%)	15 (50%)	0 (0%)	63±3	80±3	-
	Subtotal	58	1:1.1	25 (43%)	32 (55%)	1 (2%)	64±2	81±2	97
2003-2004									
	Males	16		7 (44%)	9 (56%)	0 (0%)	60±1	75±4	_
	Females	19		2 (11%)	16 (84%)	1 (5%)	62±3	76±2	88
	Subtotal	35	1:1.2	9 (26%)	25 (71%)	1 (3%)	61±1	76±2	88
Hatchery	Males	68		19 (28%)	48 (71%)	1 (1%)			
Totals	Females	81		17 (21%)	63 (78%)	1 (1%)			
	Total	149	1:1.2	36 (24%)	111 (75%)	1 (1%)			
				Hagerman	National Fish	Hatchery			
				<u>A-1</u>	<u>A-2</u>		<u>A-1</u>	<u>A-2</u>	
		N		N (%)	N (%)				
2001-2002 <sup>c</sup>	Males	235		212 (90%)	23 (10%)		62±0	73±2	
	Females	303		238 (79%)	65 (21%)		60±0	70±1	
	Subtotal	538	1:1.3	450 (84%)	88 (16%)		61±0	71±1	
2002-2003									
	Males	30		9 (30%)	21 (70%)		60±2	75±2	
	Females	49		4 (8%)	45 (92%)		61±2	71±1	
	Subtotal	79	1:1.6	13 (16%)	66 (84%)		60±1	72±1	
2003-2004 <sup>d</sup>									
	Males	16		15 (94%)	1 (6%)		58±2	70	
	Females	17		14 (82%)	3 (18%)		60±2	66±5	
	Subtotal	33	1:1.1	29 (88%)	4 (12%)		59±3	67±4	

Table 3. Continued.

Run Year <sup>a</sup>	Sex	Sample Size	Male- Female Ratio	Age Compo	sition by Stock	-Ocean Age	Mean Fork L	ength ( cm) by Age	Stock-Ocean
Hatchery	Males	281 369		236(84%)	45(16%)				
Totals	Females			256(69%)	113(31%) 158(24%)				
	Total	650	1:1.3	492(76%)	100(2170)				
				Clear	water Fish Hate	chery			
		N		<u>B-1</u> N (%)	<u>B-2</u> N (%)	<u>B-3</u> N (%)	<u>B-1</u>	<u>B-2</u>	<u>B-3</u>
2001-2002	Males Females	14 26		4 (29%)	9 (64%) 22 (84%)	1 (7%) 2 (8%)	75±5 74±21	89±3 84±2	78 90±4
	Subtotal	40	1:1.9	2 (8%) 6 (15%)	31 (78%)	2 (8%) 3 (7%)	74±21 74±6	86±2	86±8
2002-2003									
	Males	26		3 (12%)	23 (88%)	-	72±10	92±2	-
	Females	32		1 (3%)	31 (97%)	-	70	86±1	-
	Subtotal	58	1:1.2	4 (7%)	54 (93%)	-	72±7	89±1	-
2003-2004									
	Males	14		3 (21%)	10 (72%)	1 (7%)	70±8	91±3	86
	Females	27		0 (0%)	26 (96%)	1 (4%)	-	83±1	87
	Subtotal	41	1:1.9	3 (7%)	36 (88%)	2 (5%)	70±8	85±2	87±1
Hatchery	Males	54		10 (18%)	42 (78%)	2 (4%)			
Totals	Females	85		3 (4%)	79 (92%)	3 (4%)			
	Total	139	1:1.6	13 (9%)	121 (87%)	5 (4%)			

<sup>&</sup>lt;sup>a</sup> Includes creel survey data collected by Washington Department of Fish and Wildlife.

One additional tag (No. 105470 released from the Magic Valley Fish Hatchery), listed in the coded wire tag database as recovered during the 2002-2003 steelhead season in the Snake River, was without specific biodata.

Three additional tags (No. 105402 released from Magic Valley Fish Hatchery, and Nos. 105519 and 105522 released from Hagerman National Fish Hatchery), listed in the coded wire tag database as recovered during the 2001-2002 steelhead season in the Salmon River, were without specific biodata.

One additional tag (No. 100772 released from the Hagerman National Fish Hatchery), listed in the coded wire tag database as recovered during the 2003-2004 steelhead season in the Salmon River, was without specific biodata.

Table 4. Statewide harvest estimates of steelhead by river section and month by Idaho licensed anglers, fall 2001–spring 2004.

Fall 2001 Steelhead Harvest Estimates <sup>a,b</sup>									
River Section	September	October	November	December	Total				
Snake River									
01	370	2,215	2,799	1,555	6,939				
02	14	797	1,810	1,806	4,427				
Clearwater River									
03	1,540	3,613	4,859	3,481	13,493				
04	0	391	427	356	1,174				
05	0	111	98	169	378				
07	0	33	101	0	134				
Salmon River									
10	57	1,027	554	385	2,023				
11	101	1,868	1,435	306	3,710				
12	14	780	832	453	2,079				
13	0	411	583	29	1,023				
14	29	885	1,665	158	2,737				
15	101	3,102	6,596	638	10,437				
16	57	300	968	160	1,485				
17	0	0	590	0	590				
18	0	0	14	Ō	14				
19	39	14	59	0	112				
20	27	284	340	226	877				
Statewide Totals	2,349	15,831	23,730	9,722	51,632				

Spring 2002 Steelhead Harvest Estimates <sup>a,b</sup>									
River Section	January	February	March	April	Total				
Snake River									
01	684	225	77	54	1,040				
02	873	480	506	469	2,328				
Clearwater River									
03	2,202	1,590	633	308	4,733				
04	216	533	773	174	1,696				
05	367	319	506	161	1,353				
07	299	81	963	892	2,235				
Salmon River									
10	538	647	239	244	1,668				
11	670	825	1,494	891	3,880				
12	171	478	897	85	1,631				
13	0	64	120	54	238				
14	350	439	1,364	109	2,262				
15	285	637	3,924	239	5,085				
16	301	441	896	747	2,385				
17	161	227	995	2,340	3,723				
18	0	41	638	2,651	3,330				
19	14	27	384	4,076	4,501				
20	453	379	766	4,866	6,464				
Statewide Totals	7,584	7,433	15,175	18,360	48,552				

Table 4. Continued.

Fall 2002 Steelhead Harvest Estimates <sup>a,b</sup>												
River Section	September	October	November	December	Total							
Snake River												
01	303	1,855	1,089	378	3,625							
02	13	1,338	1,332	633	3,316							
Clearwater River												
03	1,292	3,398	3,770	2,826	11,286							
04	0	90	183	186	459							
05	0	50	498	118	666							
07	13	27	27	13	80							
Salmon River												
10	100	1,251	955	561	2,867							
11	366	1,273	1,882	750	4,271							
12	13	1,025	1,208	471	2,717							
13	0	312	398	106	816							
14	13	563	923	120	1,619							
15	197	2,404	2,118	749	5,468							
16	0	251	252	146	649							
17	13	40	77	0	130							
18	0	93	40	0	133							
19	27	40	13	116	196							
20	57	288	522	40	907							
Statewide Totals	2,407	14,298	15,287	7,213	39,205							

Spring 2003 Steelhead Harvest Estimates <sup>a,b</sup>												
River Section	January	February	March	April	Total							
	_	-										
Snake River												
01	515	286	110	70	981							
02	409	193	97	14	713							
Clearwater River												
03	1,958	2,385	1,159	361	5,863							
04	522	841	525	62	1,950							
05	912	1,851	1,127	97	3,987							
07	193	1,872	2,797	958	5,820							
Salmon River												
10	186	82	69	0	337							
11	1,038	983	856	515	3,392							
12	519	522	191	105	1,337							
13	28	69	83	0	180							
14	388	339	433	27	1,187							
15	415	1,287	1,400	26	3,128							
16	42	288	587	141	1,058							
17	107	192	2,416	1,324	4,039							
18	14	136	732	611	1,493							
19	0	79	443	1,217	1,739							
20	438	918	2,018	1,623	4,997							
20	730	310	2,010	1,020	7,331							
Statewide Totals	7,684	12,323	15,043	7,151	42,201							

Table 4. Continued.

	Fall 2003 St	eelhead Har	vest Estimates	a,b	
River Section	September	October	November	December	Total
Snake River					
01	40	1,068	1,011	425	2,544
02	81	1,002	963	944	2,990
Clearwater River					
03	853	2,811	4,091	3,009	10,764
04	40	190	533	336	1,099
05	0	135	254	295	684
07	13	135	147	202	497
Salmon River					
10	170	788	625	405	1,988
11	53	1,040	1,247	535	2,875
12	40	422	572	176	1,210
13	0	513	187	40	740
14	27	523	918	306	1,774
15	13	2,390	2,280	774	5,457
16	13	396	562	229	1,200
17	0	135	178	13	326
18	13	67	127	0	207
19	0	0	33	0	33
20	0	131	132	26	289
Statewide Totals	1,356	11,746	13,860	7,715	34,677

	Spring 2004	Steelhead Har	vest Estimate	es <sup>a,b</sup>	
River Section	January	February	March	April	Total
Snake River					
01	453	154	0	0	607
02	307	121	209	314	951
Clearwater River					
03	1,536	1,672	256	145	3,609
04	250	1,023	370	21	1,664
05	251	476	471	106	1,304
07	77	503	1,371	499	2,450
Salmon River					
10	144	89	77	11	321
11	290	568	588	148	1,594
12	309	493	162	163	1,127
13	22	78	103	0	203
14	41	67	177	0	285
15	365	660	2,099	97	3,221
16	201	303	944	317	1,765
17	64	206	1,274	951	2,495
18	34	22	435	511	1,002
19	11	0	573	1,137	1,721
20	96	75	700	1,700	2,571
Statewide Totals	4,451	6,510	9,809	6,120	26,890

Excludes river sections not surveyed for LSRCP. Data from Thomas J. McArthur, IDFG.

Table 5. Fishery sample rates by river section and month, fall 2001–spring 2004.

Section					Fishery	Statistics	by Montl	n		
	Statistics	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Total
				Fall 200	1-Spring	2002				
01				1 411 200	r opinig	2002				
	ish Checked <sup>a</sup>	26	211	243	60	13	12			565
	ated Harvest <sup>o</sup> Sample Rate	370 0.070	2,215 0.095	2,799 0.087	1,555 0.039	684 0.019	225 0.053	77 0	54 0	7,979 0.071
	oumpio riato	0.070	0.000	0.001	0.000	0.010	0.000	ŭ	Ū	0.07 1
03 & 05	ish Checked	4	250	293	147	323	351	194		1,562
	ated Harvest	1,540	3,724	4,957	3,650	2,569	1,909	1,139	 469	19,957
	Sample Rate	0.003	0.067	0.059	0.040	0.126	0.184	0.170	0	0.078
04										
	ish Checked					1	1	56		58
	ated Harvest	0	391	427	356	216	533	773	174	2,870
	Sample Rate		0	0	0	0.005	0.002	0.072	0	0.020
07										
	Fish Checked atted Harvest	 0	33	 101	0	 299	 81	173 963	76 892	249
	Sample Rate		0	0		299	0	0.180	0.085	2,369 0.105
	•									
<b>10</b>	ish Checked	0	1	1						2
	ated Harvest	57	1,027	554	385	538	647	239	244	3,691
	Sample Rate	0	0.001	0.002	0	0	0	0	0	0.001
11										
No. F	ish Checked	1	15	17			16	75		124
	ated Harvest	101 0.010	1,868 0.008	1,435 0.012	306 0	670 0	825 0.019	1,494 0.050	891 0	7,590 0.016
	Sample Rate	0.010	0.006	0.012	U	U	0.019	0.050	U	0.010
12										
	Fish Checked ated Harvest	1 14	239 780	186 832	24 453	 171	78 478	238 897	 85	766 3,710
	Sample Rate	0.071	0.306	0.224	0.053	0	0.163	0.265	0	0.206
40										
<b>13</b> No. F	ish Checked		32	27			3	19		81
Estim	ated Harvest	0	411	583	29	0	64	120	54	1,261
	Sample Rate		0.078	0.046	0		0.047	0.158	0	0.064
14										
	Fish Checked		168	487			24	345		1,024
	ated Harvest Sample Rate	29 0	885 0.190	1,665 0.292	158 0	350 0	439 0.055	1,364 0.253	109 0	4,999 0.205
		J	5.700	0.202	•	J	2.300	5.200	J	5.200
15	ich Chackad		961	2,405	0		64	1,104	30	A 572
	No. Fish Checked Estimated Harvest		3,102	2,405 6,596	638	 285	637	3,924	39 239	4,573 15,522
	Sample Rate	101 0	0.310	0.365	0	0	0.100	0.281	0.163	0.295
16										
	ish Checked		46	172	15		36	310	42	621
	ated Harvest	57	300	968	160	301	441	896	747	3,870
	Sample Rate	0	0.153	0.178	0.094	0	0.082	0.346	0.056	0.160

Table 5. Continued.

Table 5. C Section	ontinued.				Fishon	Statistics	by Month	1		
Section	Statistics	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Total
			Fall 2	2001–Spr	ing 2002,	continue	d.			
17				-						
<b>17</b> No. Fi	sh Checked			12	0		0	250	399	661
	ated Harvest	0	0	590	0	161	227	995	2,340	4,313
S	Sample Rate			0.020		0	0	0.251	0.171	0.153
18										
	sh Checked		1					58	231	290
	ated Harvest	0	0	14 0	0	0	41 0	638 0.091	2,651 0.087	3,344
	Sample Rate			U			U	0.091	0.067	0.087
19								•	0.4.4	0.40
	sh Checked ated Harvest	 39	 14	 59	0	 14	 27	2 384	641 4,076	643 4,613
	Sample Rate	0	0	0		0	0	0.005	0.157	0.139
	op.otato		· ·	· ·		· ·	· ·	0.000	00.	000
20 No Fi	sh Checked	0	8	10			9	62	440	529
	ated Harvest	27	284	340	226	453	379	766	4,866	7,341
8	Sample Rate	0	0.028	0.029	0	0	0.024	0.081	0.090	0.072
							Total S	teelhead	Checked	11,748
						Total Est	imated Ste	elhead F	larvested	93,429 <sup>c</sup>
							An	nual San	nple Rate	0.126
				Fall 2002	2—Spring	2003				
01										
	sh Checked <sup>b</sup>	130	166	187	17	0	0	0	0	500
	ated Harvest	303	1,855	1,089	378	515	286	110	70	4,606
S	Sample Rate	0.429	0.089	0.172	0.045	0	0	0	0	0.109
)2										
	sh Checked <sup>b</sup>				1					1
	ated Harvest Sample Rate	13 0	1,338 0	1,332 0	633 0.002	409 0	193 0	97 0	14 0	4,029 0.0002
	dilipie ivate	U	U	U	0.002	U	U	U	U	0.0002
03 & 05		•	00	040	445	000	005	00		000
	sh Checked ated Harvest	9 1,292	93 3,448	213 4,268	115 2,944	299 2,870	205 4,236	22 2,286	4 458	960 21,802
	Sample Rate	0.007	0.027	0.050	0.039	0.104	0.048	0.010	0.009	0.044
	•									
<b>)4</b> No Fi	sh Checked	0	0	0	0	9	13	0	0	22
	ated Harvest	Ö	90	183	186	522	841	525	62	2,409
5	Sample Rate		0	0	0	0.017	0.015	0	0	0.009
07		_	_	_	_	_	- ·-			
	sh Checked	0 13	0 27	0 27	0	0	247	371	72 059	690
	ated Harvest Sample Rate	0	27 0	27 0	13 0	193 0	1,872 0.132	2,797 0.133	958 0.075	5,900 0.117
		Ŭ	J	J	ŭ	ŭ	552	5.150	2.0.0	Ų. 1 1 <i>1</i>
10 No Fi	ich Checked	0	2	e	4	0	0	0	0	40
	ish Checked ated Harvest	0 100	2 1,251	6 955	4 561	0 186	0 82	0 69	0 0	12 3,204
	Sample Rate	0	0.002	0.006	0.007	0	0	0		0.004

Table 5. Continued.

Section	tion Fishery Statistics by Month											
Statistics	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Total			
		Fall 2	:002—Spi	ring 2003	, continue	ed.						
11												
No. Fish Checked	0	48	31	0	0	17	7	0	103			
<b>Estimated Harvest</b>	366	1,273	1,882	750	1,038	983	856	515	7,663			
Sample Rate	0	0.038	0.016	0	0	0.017	0.008	0	0.013			
12												
No. Fish Checked	2	362	250	29	0	82	18	0	743			
Estimated Harvest	13	1,025	1,208	471	519	522	191	105	4,054			
Sample Rate	0.154	0.353	0.207	0.062	0	0.157	0.094	0	0.183			
13												
No. Fish Checked	1	58	61	1	0	7	15	0	143			
Estimated Harvest	0	312	398	106	28	69	83	0	996			
Sample Rate		0.186	0.153	0.009	0	0.101	0.181		0.144			
14												
No. Fish Checked		129	181				65	0	375			
Estimated Harvest	13	563	923	120	388	339	433	27	2,806			
Sample Rate	0	0.229	0.196	0	0	0	0.150	0	0.134			
15		474	200				0.40	0	4 400			
No. Fish Checked	 107	474	306	740	 445	 4 207	348	2	1,130			
Estimated Harvest	197 0	2,404 0.197	2,118 0.144	749 0	415 0	1,287 0	1,400 0.249	26 0.077	8,596 0.131			
Sample Rate	U	0.197	0.144	U	U	U	0.249	0.077	0.131			
No. Fish Checked		35	16				186	2	239			
Estimated Harvest	0	251	252	 146	 42	 288	587	141	1,707			
Sample Rate		0.139	0.063	0	0	0	0.317	0.014	0.140			
		0.100	0.005	O	Ü	O	0.517	0.014	0.140			
No. Fish Checked		0	0				424	145	569			
Estimated Harvest	13	40	77	0	107	192	2,416	1,324	4,169			
Sample Rate	0	0	0		0	0	0.175	0.110	0.136			
·	Ü	Ü	Ü		Ü	Ü	0.170	0.110	0.100			
No. Fish Checked							180	135	315			
Estimated Harvest	0	93	40	0	14	136	732	611	1,626			
Sample Rate		0	0		0	0	0.246	0.221	0.194			
19												
No. Fish Checked							46	111	157			
<b>Estimated Harvest</b>	27	40	13	116	0	79	443	1,217	1,935			
Sample Rate	0	0	0	0		0	0.104	0.091	0.081			
20												
No. Fish Checked	2	7	87	3	0	78	309	135	621			
Estimated Harvest	57	288	522	40	438	918	2,018	1,623	5,904			
Sample Rate	0.035	0.024	0.167	0.075	0	0.085	0.153	0.083	0.105			
						Total Steelhead Checked						
					Total Est		6,336 81,406					
						Ar	nnual San	nple Rate	0.078			

Table 5. Continued.

Table 5. Continued.  Section											
Statistics	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Total		
			Fall 2003	3—Spring	2004						
01											
No. Fish Checked <sup>b</sup>	10	115	215	87	22	5			454		
Estimated Harvest	40	1,068	1,011	425	453	154	0	0	3,151		
Sample Rate	0.250	0.108	0.213	0.205	0.049	0.032			0.144		
2											
No. Fish Checked	1								1		
Estimated Harvest	81	1,002 0	963 0	944 0	307 0	121 0	209 0	314 0	3,941		
Sample Rate	0.012	U	U	U	U	U	U	U	0.0003		
3 & 05	1	147	210	151	151	100	4		707		
No. Fish Checked Estimated Harvest	1 853	147 2,946	218 4,345	154 3,304	151 1,787	122 2,148	4 727	 251	797 16,361		
Sample Rate	0	0.050	0.050	0.047	0.084	0.057	0.006	0	0.049		
•											
No. Fish Checked			0	2	0	64	19		85		
Estimated Harvest	40	190	533	336	250	1,023	370	21	2,763		
Sample Rate	0	0	0	0.006	0	0.063	0.051	0	0.031		
7											
No. Fish Checked					0	71	159	118	348		
Estimated Harvest	13	135	147	202	77	503	1,371	499	2,947		
Sample Rate	0	0	0	0	0	0.141	0.116	0.236	0.118		
)											
No. Fish Checked	0	8	10			0	0		18		
Estimated Harvest	170 0	788 0.010	625 0.016	405 0	144 0	89 0	77 0	11 0	2,309 0.008		
Sample Rate	U	0.010	0.016	U	U	U	U	U	0.006		
No Fish Chasked	0	40	25	0		44	20		00		
No. Fish Checked Estimated Harvest	0 53	12 1,040	35 1,247	6 535	 290	11 568	29 588	 148	93 4,469		
Sample Rate	0	0.012	0.028	0.011	0	0.019	0.049	0	0.021		
·											
No. Fish Checked	0	142	185	24		30	47		428		
Estimated Harvest	40	422	572	176	309	493	162	163	2,337		
Sample Rate	0	0.336	0.323	0.136	0	0.061	0.290	0	0.183		
<b>,</b>											
No. Fish Checked	0	78	85	12		20	30		225		
Estimated Harvest	0	513	187	40	22	78	103	0	943		
Sample Rate		0.152	0.455	0.300	0	0.256	0.291		0.239		
ļ.											
No. Fish Checked	 07	76	118			 67	24		218		
Estimated Harvest Sample Rate	27 0	523 0.145	918 0.129	306 0	41 0	67 0	177 0.136	0 	2,059 0.106		
•	U	0.140	0.129	J	J	U	0.100		0.100		
No. Eigh Chackad		60E	ESE			1	940	0	2.042		
No. Fish Checked Estimated Harvest	 13	625 2,390	535 2,280	 774	 365	4 660	849 2,099	0 97	2,013 8,678		
Sample Rate	0	0.262	0.235	0	0	0.006	0.404	0	0.232		
1											

Table 5. Continued.

Section				<b>Fishery</b>	Statistics	by Mont	h		
Statistics	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Total
		Fall 2	003—Spr	ing 2004	, continu	ed.			
16									
No. Fish Checked		46	77			50	181	35	389
Estimated Harvest	13	396	562	229	201	303	944	317	2,965
Sample Rate	0	0.116	0.137	0	0	0.165	0.192	0.110	0.131
17									
No. Fish Checked		1	1			7	205	184	398
Estimated Harvest	0	135	178	13	64	206	1,274	951	2,821
Sample Rate		0.007	0.006	0	0	0.034	0.161	0.193	0.141
18									
No. Fish Checked							137	41	178
Estimated Harvest	13	67	127	0	34	22	435	511	1,209
Sample Rate	0	0	0		0	0	0.315	0.080	0.147
19									
No. Fish Checked							43	206	249
Estimated Harvest	0	0	33	0	11	0	573	1,137	1,754
Sample Rate			0		0		0.075	0.181	0.142
20									
No. Fish Checked	0	4	7	1		5	45	78	140
Estimated Harvest	0	131	132	26	96	75	700	1,700	2,860
Sample Rate		0.031	0.053	0.038	0	0.067	0.064	0.046	0.049
						Total S	Steelhead	Checked	5,916
					Total Est	timated St			61,567
							nnual San		0.096

<sup>&</sup>lt;sup>a</sup> Includes data collected on the Snake River by Washington Department of Fish and Wildlife.

Estimated harvest data from Statewide Harvest Survey data, Thomas J. McArthur, IDFG (unpublished).

Total estimated harvest does not include Statewide Harvest Survey data for river section 02 because we did not check any fish for marks from river section 02 during fall 2001 and spring 2002.

Table 6. Idaho steelhead sport fishery statistics by rearing facility for Lower Snake River Compensation Plan hatchery fish, fall 2001–spring 2004.

0.53 0.42 0.46 0.48
0.42
0.42
0.42
0.46
0.46
0.48
0.48
0.69
0.00
0.62
0.02
0.75
0.66
0.55
0.47
0.89
0.51

<sup>&</sup>lt;sup>a</sup> Values include only those steelhead released with clipped adipose-fins.

MVFH contributed approximately 2.5 times as many juvenile fish to combined run years compared to HNFH and CFH. Coded wire tag mark rates were within  $\pm$  5% for all rearing facilities except for 2003-2004, when mark rates for fish reared at all three LSRCP facilities varied by  $\pm$  16%. We recovered 89%, 69%, and 58% of mark groups from HNFH, MVFH, and CFH, respectively, for combined run years. More detailed information regarding individual juvenile release groups and harvest is provided in Appendix D.

We recovered from 4- or 5-year-old A-stock steelhead six CWT, three CWT, and five CWT during the 2001–2002, 2002–2003, and 2003–2004 fisheries, respectively (Appendix E). We did not attempt any harvest expansions of the CWT for the 4- and 5-year-old fish, as mentioned earlier in the Methods section. The CWT we recovered from "older" release groups came from fish that were reared by HNFH and MVFH. We recovered the majority of 4- and 5-year-old fish from upper Salmon River release groups, although one CWT was from fish released into the Little Salmon River.

#### **Steelhead Counts at Hydro Projects**

Estimated total counts of steelhead at Bonneville Dam were 630,230, 477,997, and 357,177 during the 2001, 2002, and 2003 run years, respectively (Table 7). We estimated 378,884, 231,331, and 224,042 A-stock hatchery steelhead and 75,327, 87,906, and 28,032 B-stock hatchery steelhead passed Bonneville Dam during the 2001, 2002, and 2003 run years, respectively. We estimated 144,729, 96,162, and 68,131 A-stock natural steelhead and 12,497, 33,148, and 6,596 B-stock natural steelhead passed Bonneville Dam during the 2001, 2002, and 2003 run years, respectively. We estimated 18,474, 19,181, and 26,198 A-stock unclipped adipose fin hatchery steelhead and 319, 10,269, and 4,178 B-stock unclipped adipose fin hatchery steelhead passed Bonneville Dam during the 2001, 2002, and 2003 run years, respectively.

Estimated total counts of steelhead at Lower Granite Dam were 269,281, 234,815, and 172,487 during the 2001–2002, 2002–2003, and 2003–2004 run years, respectively (Table 8). We estimated 191,611, 111,674, and 106,278 A-stock hatchery steelhead and 30,672, 48,014, and 23,062 B-stock hatchery steelhead passed Lower Granite Dam during the 2001–2002, 2002–2003, and 2003–2004 run years, respectively. We estimated 37,854, 28,437, and 21,891 A-stock natural steelhead and 3,168, 13,913, and 7,267 B-stock natural steelhead passed Lower Granite Dam during the 2001–2002, 2002–2003, and 2003–2004 run years, respectively. We estimated 5,976, 11,271, and 11,855 A-stock unclipped adipose fin hatchery steelhead and zero, 5,703, and 2,134 B-stock unclipped adipose fin hatchery steelhead passed Lower Granite Dam during the 2001–2002, 2002–2003, and 2003–2004 run years, respectively. We did not sample steelhead at Lower Granite Dam in spring of 2003 because of permitting issues.

Table 7. Estimated composition of steelhead run at Bonneville Dam, March 15, 2001—November 15, 2003. Sampling for steelhead did not occur at Bonneville Dam from November 1—March 14.

						Number	in Sample	)			E	stimated Nu	mber in R	un <sup>a,b</sup>	
			% of			Unclipped			Unclipped	<u> </u>		Unclipped			Unclipped
Sample Period	Count at Dam	Sample No.	Count at Dam	Natural <78 cm <sup>c</sup>	Hatchery <78 cm	Hatchery <78 cm	Natural ≥78 cm	Hatchery ≥78 cm	Hatchery ≥78 cm	Natural <78 cm	Hatchery <78 cm	Hatchery <78 cm	Natural ≥78 cm	Hatchery ≥78 cm	Hatchery ≥78 cm
2001 Run Y	ear														
4/1-5/27	4,573	123	2.7	29	77	1	3	13	0	1,078	2,863	37	112	483	0
5/28-6/24	17,387	305	1.8	76	210	4	5	10	0	4,333	11,971	228	285	570	0
6/25-7/1	8,248	142	1.7	44	91	1	1	4	1	2,556	5,286	58	58	232	58
7/2-8	21,503	171	0.8	76	86	2	4	3	0	9,557	10,815	251	503	377	0
7/9-15	29,129	259	0.9	115	137	3	3	1	0	12,934	15,408	337	337	113	0
7/16-22	41,937	273	0.7	118	142	10	2	1	0	18,127	21,813	1,536	307	154	0
7/23-29	77,159	285	0.4	100	169	11	1	4	0	27,073	45,754	2,978	271	1,083	0
7/30-8/5	83,701	268	0.3	73	181	10	2	2	0	22,799	56,529	3,123	625	625	0
8/6-12	71,501	253	0.4	46	193	10	1	3	0	13,000	54,544	2,826	283	848	0
8/13-19	33,991	227	0.7	47	165	11	2	2	0	7,038	24,708	1,647	299	299	0
8/20-26	51,524	201	0.4	36	146	7	5	7	0	9,229	37,425	1,794	1,282	1,794	0
8/27-8/2	38,976	161	0.4	10	124	4	5	18	0	2,421	30,019	968	1,210	4,358	0
9/3-9	36,284	139	0.4	18	60	3	5	52	1	4,699	15,662	783	1,305	13,574	261
9/10-16	42,453	109	0.3	10	43	1	8	47	0	3,895	16,748	389	3,116	18,305	0
9/17-23	34,668	140	0.4	14	44	1	7	74	0	3,467	10,896	248	1,733	18,324	0
9/24-30	17,766	150	8.0	7	70	4	4	65	0	829	8,291	474	473	7,699	0
10/1-7	7,535	126	1.7	3	49	7	3	64	0	179	2,930	419	179	3,828	0
10/8-14	4,634	39	0.8	1	22	2	1	13	0	119	2,614	238	119	1,544	0
10/15-10/31	7,261	52	0.7	10	33	1	0	8	0	1,396	4,608	140	0	1,117	0
Total	630,230	3,423		833	2,042	93	62	391	2	144,729	378,884	18,474	12,497	75,327	319
%			0.5							23.0	60.1	2.9	2.0	12.0	0.1

Table 7. Continued.

						Number	in Sample	)		Estimated Number in Run <sup>a,b</sup>						
			% of			Unclipped			Unclipped			Unclipped			Unclipped	
Sample	Count at		Count at		Hatchery	Hatchery	Natural	Hatchery	Hatchery		Hatchery	Hatchery	Natural	Hatchery	Hatchery	
Period	Dam	No.	Dam	<78 cm <sup>c</sup>	<78 cm	<78 cm	≥78 cm	≥78 cm	≥78 cm	<78 cm	<78 cm	<78 cm	≥78 cm	≥78 cm	≥78 cm	
2002 Run Y	ear															
4/1-5/26	4,665	113	2.4	31	74	2	2	4	0	1,279	3,055	83	83	165	0	
5/27-6/23	10,709	183	1.7	58	113	4	4	4	0	3,394	6,613	234	234	234	0	
6/24-30	9,617	113	1.2	49	53	3	6	2	0	4,170	4,511	255	511	170	0	
7/1-7	12,040	134	1.1	69	55	4	3	3	0	6,200	4,941	359	270	270	0	
7/8-14	23,502	132	0.6	55	60	8	3	5	1	9,793	10,683	1,424	534	890	178	
7/15-21	28,233	223	8.0	92	107	14	6	2	2	11,647	13,547	1,773	760	253	253	
7/22-28	39,232	253	0.6	70	160	14	5	3	1	10,855	24,811	2,171	775	465	155	
7/29-8/4	41,378	238	0.6	65	145	15	8	4	1	11,301	25,209	2,608	1,391	695	174	
8/5-11	46,149	308	0.7	70	213	12	8	5	0	10,489	31,914	1,798	1,199	749	0	
8/12-18	42,149	217	0.5	35	154	12	7	9	0	6,798	29,912	2,331	1,360	1,748	0	
8/19-25	26,645	267	1.0	55	152	20	21	15	4	5,489	15,168	1,996	2,096	1,497	399	
8/26-9/1	37,688	297	0.8	36	168	10	33	42	8	4,568	21,318	1,269	4,188	5,330	1,015	
9/2-8	25,717	181	0.7	20	86	3	24	43	5	2,842	12,219	426	3,410	6,110	710	
9/9-15	48,864	178	0.4	15	48	5	32	70	8	4,118	13,177	1,373	8,784	19,216	2,196	
9/16-22	34,270	181	0.5	7	26	3	20	112	13	1,325	4,923	568	3,786	21,206	2,462	
9/23-29	22,846	171	0.7	2	24	1	14	119	11	267	3,206	134	1,870	15,899	1,470	
9/30-10/6	12,492	190	1.5	7	22	4	20	125	12	460	1,447	263	1,315	8,218	789	
10/7-13	5,871	50	0.9	4	22	0	1	20	3	469	2,584	0	117	2,349	352	
10/14-31	5,930	51	0.9	6	18	1	4	21	1	698	2,093	116	465	2,442	116	
Total	477,997	3,480		746	1,700	135	221	608	70	96,162	231,331	19,181	33,148	87,906	10,269	
%			0.7							20.1	48.4	4.0	6.9	18.4	2.1	

Table 7. Continued.

						Number	in Sample	)	Estimated Number in Run <sup>a,b</sup>							
			% of			Unclipped			Unclipped			Unclipped			Unclipped	
Sample Period	Count at Dam	Sample No.	Count at Dam	Natural <78 cm <sup>c</sup>	Hatchery <78 cm	Hatchery <78 cm	Natural ≥78 cm	Hatchery ≥78 cm	Hatchery ≥78 cm	Natural <78 cm	Hatchery <78 cm	Hatchery <78 cm	Natural ≥78 cm	Hatchery ≥78 cm	Hatchery ≥78 cm	
2003 Run Y	'ear															
4/1-6/30	14,154	55	0.4	7	45	2	0	1	0	1,801	11,581	515	0	257	0	
7/1-6	6,824	37	0.5	10	24	2	1	0	0	1,844	4,427	369	184	0	0	
7/7-13	15,282	131	0.9	65	56	10	0	0	0	7,582	6,533	1,167	0	0	0	
7/14-20	29,946	203	0.7	81	108	13	1	0	0	11,949	15,931	1,918	148	0	0	
7/21-27	28,886	173	0.6	56	105	12	0	0	0	9,350	17,532	2,004	0	0	0	
7/28-8/3	28,473	64	0.2	20	39	5	0	0	0	8,898	17,351	2,224	0	0	0	
8/4-10	38,072	158	0.4	37	109	11	1	0	0	8,916	26,264	2,651	241	0	0	
8/11-17	41,771	86	0.2	19	61	5	1	0	0	9,228	29,628	2,429	486	0	0	
8/18-25	23,593	143	0.6	10	107	18	4	4	0	1,650	17,653	2,970	660	660	0	
8/26-31	21,950	130	0.6	16	85	12	3	12	2	2,701	14,352	2,026	507	2,026	338	
9/1-7	33,395	117	0.4	7	76	7	5	19	3	1,998	21,693	1,998	1,427	5,423	856	
9/8-14	27,758	187	0.7	5	109	17	9	38	9	742	16,180	2,523	1,336	5,641	1,336	
9/15-21	24,388	213	0.9	1	98	18	8	75	13	114	11,221	2,061	915	8,588	1,489	
9/22-28	8,871	103	1.2	5	52	7	5	33	1	430	4,479	603	431	2,842	86	
9/29-10/5	4,211	58	1.4	5	31	5	1	15	1	363	2,250	363	73	1,089	73	
10/6-31	9,603	51	0.5	3	37	2	1	8	0	565	6,967	377	188	1,506	0	
Total	357,177	1,909		347	1,142	146	40	205	29	68,131	224,042	26,198	6,596	28,032	4,178	
%			0.5							19.1	62.7	7.3	1.8	7.8	1.2	

<sup>&</sup>lt;sup>a</sup> We used scale sample data from the Oregon Department of Fish and Wildlife to estimate run composition.

Estimates are not adjusted for overlap in lengths of A-stock and B-stock steelhead. Fourteen percent of naturally-produced A-stock steelhead and one percent of hatchery-produced A-stock steelhead are longer than 77 cm fork length. Thirty-six percent of naturally-produced B-stock steelhead and 17% of hatchery-produced B-stock steelhead are shorter than 78 cm fork length.

<sup>&</sup>lt;sup>c</sup> All fish measured in centimeters to fork length.

#### DISCUSSION

We recorded many impressive creel values during the record steelhead run of 2001. We interviewed 31,989 steelhead anglers, which was the third greatest number of anglers sampled since the inception of the program (Ball 1986, 1986b, 1988, 1990, 1991, 1992b, 1994, 1996, 1997, 1998, 1999; Ball and White 2001; Hansen and White 2003; Hansen and White 2004; Hansen 2005; Hansen 2006). Anglers fished a greater number of hours and caught and released more fish during the 2001–2002 fishing seasons compared to other years. Also, we checked more fish for marks during the 2001–2002 fishing seasons compared to other years. Interestingly, the mean number of hours anglers fished per fish kept and caught were similar for the 2001–2004 run years, even though reductions in steelhead counts at dams occurred during the same period of time.

We noted in our 2000–2001 annual report (Hansen 2006) as many as 50% of Clearwater River anglers refused to surrender snouts to creel personnel. We did not see a similar trend in this report. Typically, the number of snouts Clearwater River anglers failed to relinquish was in the 1% to 6% range, which was similar to other sample areas. The 22% snout refusal value that occurred on the Clearwater River during the fall of 2003 was associated with minimal sample numbers.

Three-quarters of A-stock fish reared by LSRCP hatchery facilities and caught in the fishery were 1-ocean in age. The lengths of A-stock steelhead reared by MVFH and HNFH and caught in the fishery were identical and fell within predetermined program age—length categories. Sex ratios of male to female A-stock fish were similar for MVFH and HNFH.

We noticed dissimilarities among rearing facilities regarding the ocean age of B-stock steelhead caught in the fishery. Almost three times more MVFH-reared B-stock 1-ocean steelhead were caught in the fishery compared to CFH. Additionally, the sex ratios of MVFH-reared B-stock steelhead show a greater portion of males were recovered in the fishery compared to fish reared by CFH. Our results may be biased because of small sample sizes, variation between years, and angler selectivity. However, we support additional review of relationships regarding the ocean age of returning B-stock steelhead and various rearing facilities.

Most B-stock steelhead recovered in the fishery fell into predetermined age-length categories. However, MVFH 2-ocean B-stock males returning during 2003–2004 were small, CFH B-stock 1-ocean males returning during 2001–2002 were large, and CFH B-stock 1-ocean females returning during 2001–2003 were large compared to program age-length categories. We do not see any trends or relationships at this time that warrant immediate attention and will continue to review age-length relationships on an annual basis.

Anglers harvested record numbers of steelhead in Idaho during the 2001–2002, 2002–2003, and 2003–2004 run years. Statewide steelhead harvest estimates show approximately 243,157 steelhead were harvested by Idaho anglers over a three-year period of time.

The portion of fish harvested in River Sections 01—13 has increased from 53% to approximately 65% of the total statewide harvest since 2001. At the same time, the number of fish we checked for marks did not change proportionally. Consequently, our sample rate has continued to decline in lower reaches of main stem rivers. Actions to reverse this trend were undertaken by IDFG in spring of 2006 and will be evaluated in future reports.

Table 8. Estimated steelhead run composition at Lower Granite Dam, June 1, 2001—May 31, 2004. The U.S. Army Corps of Engineers suspends counting fish at Lower Granite from December 16—February 28.

					Number in Sample						Estimated Number in Run <sup>a,b</sup>						
			% of			Unclipped			Unclipped			Unclipped			Unclipped		
Sample Period	Count at S	Sample No.	Count at Dam	Natural <78 cm <sup>c</sup>	Hatchery <78 cm	Hatchery <78 cm	Natural ≥78 cm	Hatchery ≥78 cm	Hatchery ≥78 cm	Natural <78 cm	Hatchery <78 cm	Hatchery <78 cm	Natural ≥78 cm	Hatchery ≥78 cm	Hatchery ≥78 cm		
2001-2002 R	un Year																
6/1-9/9	28,087	440	1.6	146	283	4	6	1	0	9,320	18,065	255	383	64	0		
9/10-16	10,935	200	1.8	39	157	1	2	1	0	2,132	8,584	55	109	55	0		
9/17-23	30,229	401	1.3	66	313	7	3	12	0	4,975	23,595	528	226	905	0		
9/24-30	51,212	397	8.0	50	300	5	5	37	0	6,450	38,699	645	645	4,773	0		
10/1-7	37,980	405	1.1	36	297	9	7	56	0	3,376	27,852	844	656	5,252	0		
10/8-14	30,536	398	1.3	45	281	3	4	65	0	3,453	21,559	230	307	4,987	0		
10/15-21	19,090	405	2.1	24	286	16	4	75	0	1,131	13,481	754	189	3,535	0		
10/22-28	15,182	300	2.0	30	197	9	4	60	0	1,518	9,970	455	202	3,036	0		
10/29-11/4	8,113	200	2.5	23	145	0	1	31	0	933	5,882	0	41	1,258	0		
11/5-11	7,546	103	1.4	13	71	4	1	14	0	952	5,202	293	73	1,026	0		
11/12-18	4,859	50	1.0	7	33	4	1	5	0	680	3,207	389	97	486	0		
11/19-12/15	13,041	50	0.4	2	34	4	0	10	0	522	8,868	1,043	0	2,608	0		
3/1-17	2,362	152	6.4	13	81	6	1	51	0	202	1,259	93	16	793	0		
3/18-24	735	101	13.7	6	61	3	0	31	0	44	444	22	0	226	0		
3/25-31 <sup>d</sup>	967	108	11.2	12	65	2	2	27	0	107	582	18	18	242	0		
4/1-4/7	3,512	102	2.9	12	56	4	6	24	0	413	1,928	138	207	826	0		
4/8-14	2,499	106	4.2	32	56	2	0	16	0	754	1,320	47	0	377	0		
4/15-5/31	2,396	43	1.8	16	20	3	0	4	0	892	1,114	167	0	223	0		
Total	269,281	3,961		572	2,736	86	47	520	0 :	37,854	191,611	5,976	3,168	30,672	0		
%			1.5							14.1	71.2	2.2	1.2	11.4	0		

Table 8. Continued.

				Number in Sample						Estimated Number in Run <sup>a,b</sup>						
			% of			Unclipped			Unclipped	t		Unclipped	i		Unclipped	
Sample	Count at S	•			Hatchery	Hatchery	Natural	Hatchery	Hatchery			Hatchery		Hatchery	Hatchery	
Period	Dam	No.	Dam	<78 cm <sup>c</sup>	<78 cm	<78 cm	≥78 cm	≥78 cm	≥78 cm	<78 cm	<78 cm	<78 cm	≥78 cm	≥78 cm	≥78 cm	
2002-2003 R	lun Year															
6/1-9/8	32,998	459	1.4	87	306	22	33	11	0	6,255	21,999	1,582	2,373	791	0	
9/9-15	10,340	201	1.9	36	138	3	15	9	0	1,852	7,099	154	772	463	0	
9/16-22	28,866	315	1.1	53	182	15	21	44	0	4,857	16,678	1,375	1,924	4,032	0	
9/23-29	27,592	400	1.4	52	232	20	33	57	6	3,587	16,003	1,380	2,276	3,932	414	
9/30-10/6	38,184	401	1.1	46	185	27	24	110	9	4,380	17,616	2,571	2,285	10,474	857	
10/7-13	35,098	500	1.4	38	204	25	30	180	23	2,667	14,320	1,755	2,106	12,635	1,615	
10/14-20	19,615	401	2.0	43	147	19	21	152	19	2,103	7,190	929	1,027	7,435	930	
10/21-27	9,227	205	2.2	11	78	9	8	80	19	495	3,511	405	360	3,601	855	
10/28-11/3	6,150	150	2.4	14	56	11	12	52	5	574	2,296	451	492	2,132	205	
11/4-10	3,332	78	2.3	8	38	4	4	21	3	342	1,623	171	171	897	128	
11/11-17	1,969	62	3.1	10	29	3	4	13	3	318	921	95	127	413	95	
11/18-12/15	5,641	28	0.5	5	12	2	0	6	3	1,007	2,418	403	0	1,209	604	
3/1-16	8,824		0.0	No Stee	lhead Sam	pled at Lowe	r Granite I	ງam in Snri	na 2003							
3/17-23	2,679		0.0	140 0100	incaa cam	pica at Lowe	oranic i	Jani III Opin	19 2000							
3/24-30	1,514		0.0													
3/31-5/31	2,786		0.0													
Total	234,815	3,200		403	1,607	160	205	735	90	28,437	111,674	11,271	13,913	48,014	5,703	
%			1.4							13.0	51.0	5.1	6.4	21.9	2.6	
,,			1							10.0	01.0	0.1	V. <del>-</del>	21.0		

Table 8. Continued.

						Number	in Sample	)			E	Stimated N	lumber in	Run <sup>a,b</sup>	
			% of			Unclipped			Unclipped			Unclipped			Unclipped
Sample	Count at	Sample	Count at		Hatchery		Natural	Hatchery	Hatchery			Hatchery		Hatchery	Hatchery
Period	Dam	No.	Dam	<78 cm <sup>c</sup>	<78 cm	<78 cm	≥78 cm	≥78 cm	≥78 cm	<78 cm	<78 cm	<78 cm	≥78 cm	≥78 cm	≥78 cm
2003-2004 R	un Year														
6/1-9/14	19,493	1,054	5.4	181	739	75	39	18	2	3,348	13,667	1,387	721	333	37
9/15-21	21,322	2,369	11.1	385	1,635	157	85	100	7	3,465	14,716	1,413	765	900	63
9/22-28	28,465	3,230	11.3	390	2,123	235	172	301	9	3,437	18,710	2,071	1,516	2,653	79
9/29-10/5	34,515	3,842	11.1	412	2,419	257	157	560	37	3,701	21,731	2,309	1,411	5,031	333
10/6-12	29,483	3,341	11.3	330	2,018	223	122	604	44	2,912	17,808	1,968	1,077	5,330	388
10/13-19	11,676	1,493	12.8	188	841	89	53	290	32	1,470	6,577	696	415	2,268	250
10/20-26	7,717	1,046	13.6	105	610	70	38	192	31	775	4,500	517	280	1,416	229
10/27-11/2	5,939	842	14.2	103	436	75	36	167	25	727	3,075	529	254	1,178	176
11/3-9	2,411	337	14.0	44	170	28	12	75	8	315	1,216	200	86	537	57
11/10-16	1,258	173	13.8	26	98	15	5	26	3	189	713	109	36	189	22
11/17-12/15	2,590	77	3.0	7	49	2	6	11	2	235	1,648	67	202	370	67
3/1-7	647	91	14.1	8	17	8	3	46	9	57	121	57	21	327	64
3/8-14	1,124	140	12.5	13	40	7	8	66	6	104	321	56	64	530	48
3/15-21	1,364	239	17.5	36	62	19	7	101	14	205	354	109	40	576	80
3/22-28	1,263	271	21.5	46	86	18	12	91	18	214	401	84	56	424	84
3/29-4/4	1,150	224	19.5	45	51	9	23	84	12	231	262	46	118	431	62
4/5-5/31	2,070	131	6.3	32	29	15	13	36	6	506	458	237	205	569	95
Total	172,487	18,900		2,351	11,423	1,302	791	2,768	265	21,891	106,278	11,855	7,267	23,062	2,134
%			11.0							12.7	61.6	6.9	4.2	13.4	1.2

Prior to the 2001-2002 run, estimates were calculated using length frequencies only. In 2001, we used scale sample data from the National Marine Fishery Service to estimate numbers of unclipped hatchery steelhead in run.

Estimates not adjusted for overlap in lengths of A-stock and B-stock steelhead. Fourteen percent of naturally-produced A-stock steelhead and one percent of hatchery-produced A-stock steelhead are longer than 77 cm fork length. Thirty-six percent of naturally-produced B-stock steelhead and 17% of hatchery-produced B-stock steelhead are shorter than 78 cm fork length.

<sup>&</sup>lt;sup>c</sup> All fish measured in centimeter fork lengths.

d Published counts of steelhead at Lower Granite Dam for 3/27 and 3/28/2002 are blank, reportedly due to camera failure at the ladder.

Approximately 64,205 LSRCP–reared hatchery steelhead were harvested by anglers in Idaho beginning in fall of 2001–spring of 2004. We estimated hatchery contribution to the fishery for HNFH, MVFH, and CFH to be 21,684, 33,753, and 8,768 steelhead, respectively for the fall 2001–spring 2004 seasons. Magic Valley Fish Hatchery produced 52.6% of the steelhead in the LSRCP–reared portion of the Idaho harvest.

The majority of mark groups not recovered in the fishery was associated with B-stock steelhead. We unintentionally inflate the number of unrecovered B-stock mark groups by including 3-ocean return groups in our calculations in an effort to account for all adult returns. However, we will explore the possibility of reporting A- and B-stock adult returns by ocean age in our hatchery facility summary tables in future reports.

Counts of natural and hatchery A- and B-stock steelhead at Bonneville Dam and Lower Granite Dam were at the greatest level since the mid 1970s during the 2001 run year. Thereafter, counts of natural and hatchery A- and B-stock steelhead at Bonneville Dam and Lower Granite Dam declined during the 2002 and 2003 run years. Unclipped hatchery A- and B-stock steelhead composed approximately 8% of the run crossing Lower Granite Dam during the 2002-2003 run year.

### **RECOMMENDATIONS**

We support additional review of relationships regarding the ocean age of returning B-stock steelhead and various rearing facilities.

We will continue to review age-length relationships on an annual basis.

We will continue to review strategies to improve creel sample rates for each individual river section.

We will review how our data is presented in various tables and appendices in an effort to provide information that better addresses the needs of fishery and program managers.

## **ACKNOWLEDGMENTS**

Ellen Smith, Idaho Department of Fish and Game, compiled the tables, appendices, and dam count information for this multiyear report. Judy Dillon, Chris Larsen, and Chris Harrington, Idaho Department of Fish and Game, provided coded wire tag analysis and verification for Idaho fisheries. Sam Sharr, Idaho Department of Fish and Game, provided manuscript review. Joe Bumgarner, Washington Department of Fish and Wildlife, cooperated with data collection and compilation of Snake River information. Brett Morgan, Oregon Department of Fish and Wildlife, provided adult sample data for Bonneville Dam. Jerry Harmon, National Marine Fisheries Service, provided adult sample data for Lower Granite Dam.

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**APPENDICES** 

Appendix A. Steelhead fishery interview data (unexpanded) from the lower Snake River, the Clearwater River, and the Salmon River, September 2001—April 2004. Only interviews of Idaho licensed anglers are included.

Sanan I		State	N	Total	Otaalbaad	Steelh Relea		Tatal	No.	No.	Snouts
Season / River Section	Month	Collecting Data <sup>a</sup>	No. Anglers	Hours Fished	Steelhead Kept	Hatchery	Wild	Total Catch	Checked For CWT	Snouts Taken	Not Taken
Fall 2001-Spri	ng 2002 Sea	<u>ison</u>									
Fall 2001											
01	Sep	ID	77	305	8	0	1	9	8	2	0
01	Sep Sep Total	WA	40 117	216 521	18 26	0 0	7 8	25 34		 2	 0
	•					-					
01 01	Oct Oct	ID WA	480 104	2,211 697	174 68	42 3	105 53	321 124		20	0 
0.	Oct Total	***	584	2,908		45	158	445		20	0
01	Nov	ID	437	2,909	200	13	147	360	165	17	0
01	Nov Nov Total	WA	134 571	808 3,717		14 27	47 194	139 499		 17	 0
04		10/0		•						0	
01	Dec Total	WA	64	387		3	38	101	60	-	0
Section 01 Fall	I Total		1,336	7,533		75	398	1,079		39	0
03	Sep	ID	80	316	4	3	2	9	4	0	0
03	Oct	ID	1,235	5,047	259	46	127	432	250	19	1
03	Nov	ID	1,722	6,512	320	38	143	501	292	13	3
03	Dec	ID	841	2,665	159	15	60	234	146	5	2
Section 03 Fall	l Total		3,878	14,540	742	102	332	1,176	692	37	6
05	Nov	ID	13	57	1	0	1	2	1	0	0
05	Dec	ID	13	27	2	0	0	2	1	0	0
Section 5 Fall	Total		26	84	3	0	1	4	2	0	0
10	Sep	ID	7	17	0	0	0	0	0	0	0
10	Oct	ID	64	204	6	1	2	9	1	0	0
10	Nov	ID	43	100	1	0	2	3	1	0	0
Section 10 Fall	l Total		114	321	7	1	4	12	2	0	0
11	Sep	ID	16	50	1	0	0	1	1	0	0
11	Oct	ID	162	707	27	0	12	39	15	2	0
11	Nov	ID	226	744	37	3	12	52	17	0	0
Section 11 Fall	l Total		404	1,501	65	3	24	92	33	2	0
12	Sep	ID	66	223	1	0	0	1	1	0	0
12	Oct	ID	1,237	7,013	257	22	124	403	239	20	1
12	Nov	ID	1,818	8,692	211	19	88	318	186	23	1
12	Dec	ID	83	364	24	4	8	36	24	4	0
Section 12 Fall	l Total		3,204	16,292	493	45	220	758	450	47	2

Season /		State Collecting	No.	Total Hours	Steelhead	Steelh Relea		Total	No. Checked	No. Snouts	Snouts Not
River Section	Month	Data	Anglers		Kept	Hatchery	Wild	Catch	For CWT	Taken	Taken
Fall 2001-Sprin	g 2002 Se	ason, continu	ued.								
13	Oct	ID	46	314	34	1	17	52	32	1	0
13	Nov	ID	62	302	29	0	16	45	27	4	0
Section 13 Fall	Total		108	616	63	1	33	97	59	5	0
14	Nov	ID	346	5,539	499	223	324	1,046	487	96	1
Section 14 Fall	Total		655	9,381	670	256	511	1,437	655	120	1
15	Oct	ID	1,545	17,178	997	319	369	1,685	961	178	0
15	Nov	ID	2,363	30,094	2,494	1,556	469	4,519	2,405	398	7
15	Dec	ID	2	6	0	0	0	0	0	0	0
Section 15 Fall	Total		3,910	47,278	3,491	1,875	838	6,204	3,366	576	7
16	Oct	ID	200	1,140	46	19	29	94	46	9	0
16	Nov	ID	545	2,737	187	73	34	294	172	29	1
16	Dec	ID	41	170	15	1	0	16	15	4	0
Section 16 Fall	Total		786	4,047	248	93	63	404	233	42	1
17	Nov	ID	55	266	13	6	2	21	12	3	1
17	Dec	ID	3	17	0	0	1	1	0	0	0
Section 17 Fall	Total		58	283	13	6	3	22	12	3	1
18	Oct	ID	1	4	1	0	0	1	1	0	0
Section 18 Fall	Total		1	4	1	0	0	1	1	0	0
20	Sep	ID	12	24	0	0	0	0	0	0	0
20	Oct	ID	75	240	9	3	0	12	8	0	0
20	Nov	ID	133	421	16	2	14	32	10	0	0
Section 20 Fall	Total		220	685	25	5	14	44	18	0	0
Fall 2001 Total			14,700	102,565	6,427	2,462	2,441	11,330	6,063	871	18
Spring 2002											
01	Jan	WA	26	172	13	0	11	24	13		
01	Feb	WA	13	69	12	0	5	17	12		
Section 01 Spri	ng Total		39	241	25	0	16	41	25	0	0
03	Jan	ID	1,281	4,506	341	35	87	463	304	14	0
03	Feb	ID	1,242	5,45	264	41	79	384	242	12	0
03	Mar	ID	258	1,45	92	15	41	148	83	9	0
Section 03 Spri	ng Total		2,781	11,412	697	91	207	995	629	35	0

Appendix A. Con Season / River Section	Month	State Collecting Data <sup>a</sup>	No. Anglers	Total Hours	Steelhead Kept	Steelh Relea Hatchery		Total Catch	No. Checked For CWT	No. Snouts Taken	Snouts Not Taken
Fall 2001–Spring				i isileu	vehr	natonery	vviiu	Calcii	I-OI CAAI	I akeli	Ianeii
04	<u>g 2002 3e</u> Jan	ID	<u>1eu.</u> 13	30	1	0	1	2	1	0	0
04	Feb	ID	26	91	5	1	1	7		0	0
04	Mar	ID	323	1,400	116	18	17	151		1	0
Section 04 Sprin		טו	362	1,521	122	19	19	160		1	0
05	Jan	ID	202	768	56	2	5	63		0	0
05	Feb	ID	407	1,739	109	32	13	154		9	0
05	Mar	ID	527	2,795	131	38	26	195		4	0
Section 05 Sprin		.5	1,136	5,302	296	72	44	412		13	0
07	Mar	ID	914	3,097	240	158	81	479		18	2
07	Apr	ID	403	1,711	92	70	88	250	76	5	0
Section 07 Sprir	•		1,317	4,808	332	228	169	729	249	23	2
11	Feb	ID	111	505	16	12	9	37	16	3	0
11	Mar	ID	308	1,220	87	11	33	131	75	5	1
Section 11 Sprin	ng Total		419	1,725	103	23	42	168	91	8	1
12	Feb	ID	761	3,283	81	41	35	157	78	18	0
12	Mar	ID	1,575	7,990	259	31	113	403	238	26	1
Section 12 Sprin	ng Total		2,336	11,273	340	72	148	560	316	44	1
13	Feb	ID	9	66	3	0	0	3	3	1	0
13	Mar	ID	45	222	19	1	5	25	19	1	0
Section 13 Sprin	ng Total		54	288	22	1	5	28	22	2	0
14	Feb	ID	48	486	24	2	10	36	24	1	0
14	Mar	ID	408	5,186	355	162	265	782	345	53	2
Section 14 Sprin	ng Total		456	5,672	379	164	275	818	369	54	2
15	Feb	ID	126	971	65	20	7	92	64	11	0
15	Mar	ID	1,778	18,535	1,132	752	255	2,139	1,104	173	5
15	Apr	ID	48	385	39	12	12	63	39	4	0
Section 15 Sprin	ng Total		1,952	19,891	1,236	784	274	2,294	1,207	188	5
16	Feb	ID	83	454	37	11	5	53	36	9	0
16	Mar	ID	941	4,609	323	54	74	451	310	67	1
16	Apr	ID	188	913	54	28	7	89	42	9	0
Section 16 Sprin	ng Total		1,212	5,976	414	93	86	593	388	85	1

Appendix	Α.	Continued.

Season /	itiriaca.	State Collecting	No.	Total Hours	Steelhead	Steell Relea		Total	No. Checked	No. Snouts	Snouts Not
River Section	Month	Data		Fished	Kept	Hatchery	Wild	Catch	For CWT	Taken	Taken
Fall 2001-Sprin	g 2002 Se		ıed.		•						
17	Feb	ID		9	0	1	0	1	0	0	0
17	Mar	ID	825	5,367	261	143	59	463	250	35	1
17	Apr	ID	634	6,760	426	333	37	796		23	3
Section 17 Spri	·	iD.		12,136	687	477	96	1,260	649	58	4
•	•		,	•				,			-
18	Mar	ID	232	2,214	66	59	12	137	58	3	0
18	Apr	ID	723	5,554	256	590	44	890	231	28	2
Section 18 Spri	ng Total		955	7,768	322	649	56	1,027	289	31	2
•	•			•				,			
19	Mar	ID	4	1′	2	0	0	2	2	0	0
19	Apr	ID	1,262	7,469	729	601	159	1,489	641	134	31
Section 19 Spri	ng Total		1,266	7,480	731	601	159	1,491	643	134	31
20	Feb	ID	88	453	9	5	24	38	9	1	0
20	Mar	ID	356	1,496	76	24	74	174	62	5	0
20	Apr	ID	1,098	4,924	573	225	665	1,463	440	28	0
Section 20 Spri	ng Total		1,542	6,873	658	254	763	1,675	511	34	0
Spring 2002 Tot	tal		17,289	102,366	6,364	3,528	2,359	12,251	5,685	710	49
2001-2002 Seas	on Total		31,989	204,931	12,791	5,990	4,800	23,581	11,748	1,581	67

Season /	Ma41-	State Collecting	No.	Total Hours S		Steelhe Releas	sed	Total	No. Checked	No. Snouts	Snouts Not
River Section	Month	Data <sup>a</sup>	Anglers	risnea	Kept	Hatchery	Wild	Catch	For CWT	Taken	Taken
Fall 2002-Sprii	ng 2003 Sea	<u>ison</u>									
Fall 2002											
01	Sep	ID	803	3,785	133	9	90	23	32 130	) 25	0
01 01	Oct Oct	ID WA	295 122	,	119 58		107 66	26 12			
01	Oct Total	VVA		2,841.75	177		173	36			
01 01	Nov Nov	ID WA	306 88	2,607.5 563.25	187 37		130 38	33	32 150 75 37		
O1	Nov Total	VVA		3,170.75	224		168	40			
01	Dec	ID	9		1		2		3		
01	Dec Dec Total	WA	24 33		16 17		20 22		14 16 17 17		
Section 01 Fall	l Total		1,647	9,942	551	44	453	1,04	18 500	86	2
02	Dec	ID	6	21	2	0	0		2	1 0	0
Section 02 Fall	Total		6	21	2	0	0		2	1 0	0
03	Sep	ID	111	520	9	11	12	3	32	9 1	0
03	Oct	ID	409	2004.5	118	25	104	24	17 93	3 11	0
03	Nov	ID	950	3,661	220	23	90	33	33 209	9 12	2
03	Dec	ID	357	1,466	114	11	67	19	92 104	4 5	0
Section 03 Fall	l Total		1,827	7,651.5	461	70	273	80	)4 41	5 29	2
05	Nov	ID	11	59	4	0	0		4	4 0	0
05	Dec	ID	99	345	13	4	6	2	23 1 <sup>-</sup>	1 1	0
Section 05 Fall	Total		110	404	17	4	6	2	27 19	5 1	0
10	Sep	ID	2	6	0	0	0		0 (	0	0
10	Oct	ID	90	240	2	0	3		5 2	2 0	0
10	Nov	ID	43	224	9	2	11	2	22	6 0	0
10	Dec	ID	11	70	4	0	8	1	12	4 0	0
Section 10 Fall	l Total		146	540	15	2	22	3	39 13	2 0	0
11	Sep	ID	21	67	2	1	3		6	0	0
11	Oct	ID	372	1,649	73	19	68	16	60 48	3 6	1
11	Nov	ID	312	1,100	45	10	55	11	10 3	1 5	0
11	Dec	ID	9	38	0	0	0		0 (	0	0
Section 11 Fall	l Total		714	2,854	120	30	126	27	76 79	9 11	1

Appendix A. Con Season /		State Collecting	No.	Total Hours	Steelhead	Steelhe Releas		Total	No. Checked	No. Snouts	Snouts Not
River Section	Month	Data	Anglers	Fished	Kept	Hatchery	Wild	Catch	For CWT	Taken	Taken
Fall 2002-Sprin	g 2003 Se	ason, continu	<u>ıed.</u>								
12	Sep	ID	38	156	2	0	6		8 2	2 0	0
12	Oct	ID	1,388	9,960	396	54	264	71	14 362	2 48	5
12	Nov	ID	1,438	8,635	277	30	149	45	56 250	) 25	3
12	Dec	ID	140	767	29	4	15	4	18 29	9 0	0
Section 12 Fall	Total		3,004	19,518	704	88	434	1,22	26 643	3 73	8
13	Sep	ID	6	32	1	0	9	1	10	1 0	0
13	Oct	ID	140	1,518	61	12	114	18	37 58	3 5	0
13	Nov	ID	87	1,039	65	28	55	14	18 6 <sup>-</sup>	1 10	0
13	Dec	ID	2	6	1	0	0		1	1 0	0
Section 13 Fall	Total		235	2,595	128	40	178	34	16 12 <sup>-</sup>	1 15	0
14	Oct	ID	475	5,886.	5 171	64	325	56	60 162	2 21	0
14	Nov	ID	347	4,466	201	65	197	46	3 19	5 19	0
Section 14 Fall	Total		822	10,352.	5 372	129	522	1,02	23 35	7 40	0
15	Oct	ID	1,688	17,729.	5 679	284	267	1,23	30 632	2 86	4
15	Nov	ID	977	9,017	327	79	92	49	98 306	6 47	4
Section 15 Fall	Total		2,665	26,746.	5 1,006	363	359	1,72	28 938	3 133	8
16	Oct	ID	292	1,182.	5 36	8	5	4	19 3	5 7	0
16	Nov	ID	181	601	18	2	2	2	22 10	5 1	0
Section 16 Fall	Total		473	1,783.	5 54	10	7	7	71 5°	1 8	0
17	Oct	ID	3	4	0	0	0		0 (	0	0
Section 17 Fall	Total		3	4	0	0	0		0	0	0
20	Sep	ID	4	12	2	0	0		2 2	2 0	0
20	Oct	ID	71	216	11	2	9	2	22	7 1	0
20	Nov	ID	216	616	87	24	20	13	31 87	7 5	0
20	Dec	ID	19	64	3	3	3		9 ;	3 0	0
Section 20 Fall	Total		310	908	103	29	32	16	64 99	9 6	0
Fall 2002 Total			11,962	83,320	3,533	809	2,412	6,75	54 3,23°	1 402	21
Spring 2003											
03	Jan	ID	571	3,603	240	40	129	40	9 202	2 22	0
03	Feb	ID	124	814.	5 70	25	17	11	12 64	1 2	0
03	Mar	ID	39	196	3	7	2	1	12	3 0	0
Section 03 Spri	ng Total		734	4,613.	5 313	72	148	53	33 269	9 24	0

Appendix A. Cor Season / River Section	Month	State Collecting Data <sup>a</sup>	No. Anglers		Steelhead Kept	Steelhe Releas Hatchery		Total Catch	No. Checked For CWT	No. Snouts Taken	Snouts Not Taken
Fall 2002–Sprin				risileu	Kept	пасспету	VVIIG	Catcii	FOI CVVI	Taken	Taken
04	Feb	ID	19	69	9	0	6	,	15 9	9 3	C
04	Mar	ID	85	338	16		15		32 13		
Section 04 Spri			104		25		21	4	<b>1</b> 7 22	2 4	
05	Jan	ID	258	1,365	112	28	21	16	31 97	7 12	1
05	Feb	ID	321	2,160	150	65	41	25	56 14 <sup>2</sup>	1 11	C
05	Mar	ID	104	714	22	2	12	3	36 19	9 3	C
05	Apr	ID	50	122	7	6	16	2	29 4	4 0	C
Section 05 Spri	ng Total		733	4,361	291	101	90	48	32 26 <sup>2</sup>	1 26	1
07	Jan	ID	6	38	2	1	1		4 (	0	0
07	Feb	ID	664	2,970	272	68	286	62	26 247	7 14	0
07	Mar	ID	1,375	5,959	401	83	830	1,31	14 37	1 24	2
07	Apr	ID	460	1,747	84	54	310	44	18 72	2 6	1
Section 07 Spri	ng Total		2,505	10,714	759	206	1,427	2,39	92 690	) 44	3
11	Feb	ID	82	323	17	7	25	2	19 17	7 1	0
11	Mar	ID	67	240	7	1	12	2	20	7 2	0
Section 11 Spri	ng Total		149	563	24	8	37	6	69 24	4 3	0
12	Feb	ID	427	2,040.5	97	11	45	15	53 82	2 12	0
12	Mar	ID	346	1,557	23	13	46	8	32 18	3 1	1
Section 12 Spri	ng Total		773	3,597.5	120	24	91	23	35 100	13	1
13	Feb	ID	11	112	7	0	2		9	7 1	0
13	Mar	ID	110	1,487	15	9	56	8	30 15	5 0	0
Section 13 Spri	ng Total		121	1,599	22	9	58	8	39 22	2 1	
14	Mar	ID	108	1,254	66	12	37	11	15 65	5 12	0
Section 14 Spri	ng Total		108	1,254	66	12	37	11	15 6	5 12	0
15	Mar	ID	859	8,402.75	357	173	112	64	12 348	3 61	0
15	Apr	ID	13	217	5	3	4	1	12 2	2 0	0
Section 15 Spri	ng Total		872	8,619.75	362	176	116	65	54 350	61	0
16	Mar	ID	587	2,800	188	107	19	31	14 165	5 38	0
16	Apr	ID	3	62.5	5 2	1	1		4 2	2 1	0
Section 16 Spri	ng Total		590	2,862.5	190	108	20	31	18 167	7 39	0

Append	ix .	Α. (	Con	tinu	ed.

Season /		State Collecting	No.	Total Hours	Steelhead	Steelhe Releas		Total	No. Checked	No. Snouts	Snouts Not
River Section	Month	Data	Anglers		Kept	Hatchery	Wild	Catch	For CWT	Taken	Taken
Fall 2002-Sprin	g 2003 Se	ason, contini	ued.								
17	Mar	ID	980	10,164	446	300	62	80	08 42	9 30	2
17	Apr	ID	314	3,364.5	5 152	153	22	32	27 14	5 4	1
Section 17 Spri	ng Total		1,294	13,528.5	5 598	453	84	1,1	35 57	4 34	3
18	Mar	ID	315	2,022.5	5 213	264	690	1,16	67 18	0 14	1
18	Apr	ID	444	2,356	155	37	389	58	81 13	5 14	0
Section 18 Spri	ng Total		759	4,378.5	368	301	1,079	1,74	48 31	5 28	1
19	Mar	ID	136	709.5	5 47	65	18	13	30 4	6 6	1
19	Apr	ID	998	4,612	128	119	145	39	92 11	1 26	4
Section 19 Spri	ng Total		1,134	5,321.5	175	184	163	52	22 15	7 32	5
20	Feb	ID	269	1,324.5	5 83	30	109	22	22 7	8 6	0
20	Mar	ID	738	4,072	343	309	1,047	1,69	99 30	9 22	2
20	Apr	ID	444	2,356	155	37	389	58	81 13	5 14	0
Section 20 Spri	ng Total		1,451	7,752.5	5 581	376	1,545	2,50	02 52	2 42	2
Spring 2003 To	tal		11,327	69,572.2 5		2,031	4,916	10,84	41 3,53	8 363	16
2002-2003 Seas	on Total		23,289	152,892. 25		2,840	7,328	17,59	95 6,76	9 765	37

Season /		State Collecting	No.	Total Hours S	teelhead	Steelhe Releas		Total	No. Checked	No. Snouts	Snouts Not
River Section	Month	Data <sup>a</sup>	Anglers		Kept	Hatchery	Wild	Catch	For CWT	Taken	Taken
Fall 2003-Spri	ng 2004 Sea	ason_									
Fall 2003											
01	Sep	ID	74	331	8	0	3		1 9		
01	Sep Sep Total	WA	3 77	4 335	1 9	0	0 3		1 1		
01	Oct	ID	258	1796.5	165		107	31			
01	Oct Oct Total	WA	34 292	186 1,982.5	20 185		22 129	4 36	7 20 55 115		
01	Nov	ID	320	2531.5	223		183	42			0
01	Nov <b>Nov Total</b>	WA	82 402	476.75 3,008.25	61 284	0 22	44 227	10 53			
01	Dec	ID	68	381	27	10	28		5 38		0
01	Dec Dec Total	WA	44 112	296.75 677.75	49 76	1 11	65 93	10 16			0
Section 01 Fal	l Total		883	6,003.5	554	84	452	1,07	8 427	66	1
02	Sep	ID	1	2	1	0	0		1 1	0	0
Section 02 Fal	l Total		1	2	1	0	0		1 1	0	0
03	Sep	ID	15	67	1	1	1		3 1	0	0
03	Oct	ID	559	2,630.5	153	32	71	25	66 146	9	0
03	Nov	ID	948	3,671	230	17	103	35	0 218	10	8
03	Dec	ID	635	2,284	158	8	74	24	0 153	9	0
Section 03 Fal	l Total		2,157	8,652.5	542	58	249	84	9 518	28	8
04	Nov	ID	19	30	2	0	1		3 (	0	0
04	Dec	ID	21	71	3	0	3		6 2	2 0	0
Section 04 Fal	l Total		40	101	5	0	4		9 2	. 0	0
05	Oct	ID	10	46	1	0	0		1 1	0	0
05	Nov	ID	33	141	3	0	2		5 (	0	0
05	Dec	ID	24	71	1	0	0		1 1	0	0
Section 05 Fal	l Total		67	258	5	0	2		7 2	. 0	0
10	Sep	ID	2	6	0	0	0		0 0	0	0
10	Oct	ID	113	680	14	1	9	2	24 8	0	0
10	Nov	ID	58	311.5	17	0	17	3	34 10	) 1	0
Section 10 Fal	l Total		173	997.5	31	1	26	5	8 18	1	0
11	Sep	ID	30	77	0	1	1		2 (	0	0
11	Oct	ID	173	809	19	1	18	3	8 12	. 0	0
11	Nov	ID	381	1,880.5	39	5	35	7	9 35	2	0
11	Dec	ID	45	176	7	1	3	1	1 6	0	0
Section 11 Fal	l Total		629	2,942.5	65	8	57	13	0 53	2	0

Appendix A. Cor Season / River Section	Month	State Collecting Data <sup>a</sup>	No. Anglers		teelhead Kept	Steelhe Releas Hatchery		Total Catch	No. Checked For CWT	No. Snouts Taken	Snouts Not Taken
Fall 2003-Sprin				1101100	поре	1101011019	villa	<u> </u>	10.011.	Tunon	<u> </u>
12	Sep	ID	12	41	0	0	1		1 (	0	0
12	Oct	ID	785	5,773	178	33	141	35	52 142	9	0
12	Nov	ID	1,414	8,465.5	201	19	168	38	38 185	5 13	1
12	Dec	ID	146	646	33	5	23	6	61 24	0	0
Section 12 Fall	Total		2,357	14,925.5	412	57	333	80	)2 351	22	1
13	Sep	ID	4	32	0	0	0		0 0	0	0
13	Oct	ID	246	2,697	87	9	167	26	3 78	3 2	0
13	Nov	ID	212	2,158	91	0	77	16	85 85	5 12	0
13	Dec	ID	13	118	12	3	14	2	29 12	2 0	0
Section 13 Fall	Total		475	5,005	190	12	258	46	60 175	14	0
14	Oct	ID	319	3,638.5	89	29	223	34	11 76	5 5	0
14	Nov	ID	228	2,733.5	126	20	133	27	79 118	9	2
Section 14 Fall	Total		547	6,372	215	49	356	62	20 194	14	2
15	Oct	ID	1,400	14,565.7 5		191	331	1,23	32 625	5 45	1
15	Nov	ID	1,187	10,679	544	149	186	87	9 535	34	1
Section 15 Fall	Total		2,587	25,244.7 5	1,254	340	517	2,11	1,160	79	2
16	Oct	ID	346	1,284	1, <b>234</b> 55		21	11			
16	Nov	ID	579	1,750	86	15	17	11			
Section 16 Fall		שו	925	3,034		49	38	22			
17	Oct	ID	14	23	3		0		4 1		
17	Nov	ID	22			1	2	1	14 1		
Section 17 Fall		15	36				2		18 2		
20	Sep	ID	4				0		0 (		
20	Oct	ID	45		5		11		19 4		
20	Nov	ID	96				6		17 7		
20	Dec	ID	12				1		2 1		
Section 20 Fall			157	435.5			18		38 12		
Fall 2003 Total			11,034	74,071.2		667	2,312	6,40	9 3,038	3 235	14

Season /		State Collecting	No.	Total Hours	Steelhead	Steelhe Releas		Total	No. Checked	No. Snouts	Snouts Not
River Section	Month	Data <sup>a</sup>	Anglers		Kept	Hatchery	Wild	Catch	For CWT	Taken	Taken
all 2003–Sprin	g 2004 Se	ason, continu	ued.								
Spring 2004											
01	Jan	WA	32	204.7	5 22	3	28	!	53 22	2 1	
01	Feb	WA	23	141.	5 5	0	16	:	21 5	5 1	
Section 01 Spri	ng Total		55	346.2	5 27	3	44	•	74 27	7 2	
03	Jan	ID	508	2,42	2 114	18	102	2:	34 97	7 8	
03	Feb	ID	366	1,42	7 79	10	44	1:	33 78	3 6	
03	Mar	ID	11	146	3	3	2		8 3	3 0	
Section 03 Spri	ng Total		885	3,99	5 196	31	148	3	75 178	3 14	
04	Jan	ID	30	5	1 0	0	2		2 (	) 0	
04	Feb	ID	463	2,109	9 86	4	39	1:	29 64	1 5	
04	Mar	ID	131	510	ŝ 22	2	11	;	35 19	9 1	
ection 04 Spri	ng Total		624	2,67	6 108	6	52	10	66 83	3 6	
05	Jan	ID	230	1,060	56	3	5	(	64 54	10	
05	Feb	ID	258	972	2 54	12	8	-	74 44	1	
05	Mar	ID	5	2	2 1	0	0		1	1 0	
ection 05 Spri	ng Total		493	2,05	4 111	15	13	1:	39 99	) 11	
07	Jan	ID	27	40	0 0	0	0		0 0	) 0	
07	Feb	ID	679	2,774	4 80	32	82	19	94 7 <sup>2</sup>	l 1	
07	Mar	ID	1,112	5,604	4 183	51	386	62	20 159	9 16	
07	Apr	ID	545	2,35	7 129	72	393	59	94 118	3 6	
ection 07 Spri	ng Total		2,363	10,77	5 392	155	861	1,40	08 348	3 23	
10	Feb	ID	8	84	4 0	0	0		0 0	0	
10	Mar	ID	1	8	3 0	0	0		0 (	0	
ection 10 Spri	ng Total		9	9:	2 0	0	0		0 (	) 0	
11	Feb	ID	74	362	2 12	3	10	:	25 1°	I 0	
11	Mar	ID	234	962	2 41	13	44	9	98 29	) 2	
ection 11 Spri	•		308	·			54		23 40		
12	Feb	ID	372				55		93 30		
12	Mar	ID	749				52		10 47		
ection 12 Spri		15	1,121				107		03 77		
13	Feb	ID	25				19		40 20		
13	Mar	ID	138	990	30	1	50		30	) 0	

Appendix	κ A.	Contir	nued
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Season / River Section	Month	State Collecting Data <sup>a</sup>	No. Anglers		Steelhead Kept	Steelh Releas Hatchery		Total Catch	No. Checked For CWT	No. Snouts Taken	Snouts Not Taken
Fall 2003-Sprin				i isiieu	Rept	natonery	VVIIU	Catch	101011	Taken	Taken
14	Mar	ID	88	936.5	5 22	3	42	(	67 24	1 2	0
Section 14 Spri	ng Total		88	936.	5 22	3	42	(	67 24	1 2	0
15	Feb	ID	14	143.5	5 4	0	0		4	1 0	0
15	Mar	ID	1,533	14,344.5	5 873	475	383	1,73	31 849	9 56	2
15	Apr	ID	9	9	0	11	1	,	12 (	) 0	0
Section 15 Spri	ng Total		1,556	14,579	877	486	384	1,74	47 853	3 56	2
16	Feb	ID	244	785.5	5 54	19	15	8	38 50	) 4	0
16	Mar	ID	819	3,870	201	69	123	39	93 18 <sup>2</sup>	1 20	0
16	Apr	ID	131	635.5	5 51	51	68	17	70 35	5 2	0
Section 16 Spri	ng Total		1,194	5,291	306	139	206	6	51 266	3 26	0
17	Feb	ID	44	139.5	5 7	3	3	,	13	7 1	0
17	Mar	ID	649	5,203	3 226	85	47	35	58 209	5 5	0
17	Apr	ID	428	3,677.5	186	96	30	3′	12 184	1 3	1
Section 17 Spri	ng Total		1,121	9,020	419	184	80	68	33 396	9	1
18	Mar	ID	512	4,171.5	5 152	30	53	23	35 137	7 8	0
18	Apr	ID	453	2,880	51	123	33	20	)7 4°	l 1	0
Section 18 Spri	ng Total		965	7,051.	203	153	86	44	12 178	3 9	0
19	Mar	ID	182	857	7 58	12	31	10	01 43	3 1	0
19	Apr	ID	1,147	6,238	3 260	129	150	53	39 206	3 10	5
Section 19 Spri	ng Total		1,329	7,09	318	141	181	64	10 249	) 11	5
20	Feb	ID	45	128	3 6	0	3		9 5	5 1	0
20	Mar	ID	524	1,780	89	11	98	19	98 45	5 2	0
20	Apr	ID	614	2,758	3 163	40	822	1,02	25 78	3 6	0
Section 20 Spri	ng Total		1,183	4,666	258	51	923	1,23	32 128	3 9	0
Spring 2004 To	tal		13,457	75,734.2 5	2 5 3,428	1,393	3,250	8,07	71 2,996	6 184	10
2003-2004 Seas	on Total		24,491	149,805 (	6 6,870	2,060	5,562	14,48	30 6,034	1 419	24

Some Snake River creel data from fall 2001—spring 2004 collected by Washington Department of Fish and Wildlife.

Appendix B. Age composition and mean fork length (±95% confidence intervals) of knownage, coded-wire-tagged hatchery fish sampled in creel surveys in the Snake River, Clearwater River, and Salmon River during the 2001–2002, 2002–2003, and 2003–2004 run years. Returns are separated by rearing hatchery and recovery location.

Recovery Location Sex	Sample Size <sup>a</sup>	Age Composition by Stock-Ocean Age			Mean Fork Length (cm) b Stock-Ocean Age		
2001-2002 Run Year							
		CLEARW	ATER FISH H	ATCHERY			
Clearwater River	N	<u>B-1</u> N (%)	<u>B-2</u> N (%)	<u>B-3</u> N (%)	<u>B-1</u>	<u>B-2</u>	<u>B-3</u>
Males Female Clearwater River To		4 (29%) 2 (8%) 6 (15%)	9 (64%) 22 (84%) 31 (78%)	1 (7%) 2 (8%) 3 (7%)	75±5 74±21 74±6	89±3 84±2 86±2	78 90±4 86±8

<sup>40</sup> coded wire tags were recovered in the 2001-2002 steelhead fishery from fish reared at Clearwater Fish Hatchery.

### **MAGIC VALLEY FISH HATCHERY**

Snake River	N	<u>A-1</u> N (%)	<u>A-2</u> N (%)	<u> </u>	<del>\</del> -1	<u>A-2</u>
Males Females Snake River, A-stock Total	0 1 1	0 1 (100%) 1 (100%)	0 0 0		- 79 79	-
	N	<u>B-1</u> N (%)	<u>B-2</u> N (%)	<u> </u>	<u>3-1</u>	<u>B-2</u>
Males Females Snake River, B-stock Total	1 0 1	0 (0%) 0 0 (0%)	1 (100%) 0 1 (100%)		- -	87 - 87
Salmon River	N	<u>A-1</u> N (%)	<u>A-2</u> N (%)	<u> 4</u>	<u>\-1</u>	<u>A-2</u>
Males Females Salmon River, A-stock Total	213 237 450	175 (82%) 168 (71%) 343 (76%)	38 (18%) 69 (29%) 107 (24%)	60	2±1 0±1 1±0	74±1 70±1 72±1
	N	<u>B-1</u> N (%)	<u>B-2</u> N (%)	<u> </u>	<u>3-1</u>	<u>B-2</u>
Males Females Salmon River, B-stock Total	23 32 55	2 (9%) 0 (0%) 2 (4%)	21 (91%) 32 (100%) 53 (96%)		′±12 - ′±12	79±5 78±1 79±2

507 coded wire tags were recovered in the 2001-2002 steelhead fishery from fish reared at Magic Valley Fish Hatchery<sup>b</sup>.

Recovery		Sample	Age Composition by	Mean Fork Length (cm) by
Location	Sex	Size	Stock-Ocean Age	Stock-Ocean Age

# 2001-2002 Run Year, continued.

## **HAGERMAN NATIONAL FISH HATCHERY**

Snake River		N	<u>A-1</u> N (%)	<u>A-2</u> N (%)		<u>A-1</u>	<u>A-2</u>
Snake	Males Females River Total	0 3 3	3 (100%) 3 (100%)	0 (0%) 0 (0%)		- 60±2 60±2	- - -
Salmon River		N	<u>A-1</u> N (%)	<u>A-2</u> N (%)		<u>A-1</u>	<u>A-2</u>
Salmor	Males Females River Total	235 300 535	212 (90%) 235 (78%) 447 (84%)	23 (10%) 65 (22%) 88 (16%)	6	62±0 60±0 61±0	73±2 70±1 71±1

538 coded wire tags were recovered in the 2001-2002 steelhead fishery from fish reared at Hagerman National Fish Hatchery<sup>b</sup>.

# **ALL LSRCP HATCHERIES COMBINED**

Statewide, 1,085 coded wire tags were recovered in the 2001-2002 steelhead fishery from LSRCP-reared fish<sup>b</sup>.

Appendix B. Con	tinued.										
Recovery Location	Sex	Sample Size <sup>a</sup>	Age Composition by Stock-Ocean Age			Mean Fork Length (cm) by Stock-Ocean Age					
2002-2003 Run Year											
CLEARWATER FISH HATCHERY											
Snake River		N	<u>B-1</u> N (%)	<u>B-2</u> N (%)	<u>B-3</u> N (%)	<u>B-1</u>	<u>B-2</u>	<u>B-3</u>			
Snak	Males Females e River Total	0 1 1	- 1 (100%) 1 (100%)	- 0 (0%) 0 (0%)	- - -	- 79 79	- - -	- - -			

58 coded wire tags were recovered in the 2002-2003 steelhead fishery from fish reared at Clearwater Fish Hatchery.

<u>B-2</u>

N (%)

23 (88%)

30 (97%) 53 (93%) <u>B-3</u>

N (%)

<u>B-1</u>

72±10

70

72±7

<u>A-1</u>

<u>B-2</u>

92±2

87±1

89±1

<u>A-2</u>

<u>B-3</u>

# MAGIC VALLEY FISH HATCHERY Snake River A-1 N (%) A-2 N (%) N N (%) N (%) N (%)

<u>B-1</u>

N (%)

3 (12%)

1 (3%)

4 (7%)

Ν

26

31

57

Males

Clearwater River Total

Females

**Clearwater River** 

	Ν	N (%)	N (%)			<u> </u>	
Males Females Snake River, A-stock Total	12 6 18	11 (92%) 6 (100%) 17 (94%)	1 (8%) 0 (0%) 1 (6%)		64±2 59±2 62±2	67 - 67	
	N	<u>B-1</u> N (%)	<u>B-2</u> N (%)		<u>B-1</u>	<u>B-2</u>	
Males Females Snake River, B-stock Total	8 5 13	2 (25%) 2 (40%) 4 (31%)	6 (75%) 3 (60%) 9 (69%)		74±10 69±20 72±9	86±4 83±4 85±3	
Clearwater River	N	<u>A-1</u> N (%)	<u>A-2</u> N (%)		<u>A-1</u>	<u>A-2</u>	
Males Females Clearwater River Total	3 2 5	3 (100%) 2 (100%) 5 (100%)	0 (0%) 0 (0%) 0 (0%)		59±7 61 60±4	- - -	
Salmon River	N	<u>A-1</u> N (%)	<u>A-2</u> N (%)		<u>A-1</u>	<u>A-2</u>	
Males Females Salmon River, A-stock Total	92 87 179	87 (95%) 64 (74%) 151 (84%)	5 (5%) 23 (26%) 28 (16%)		60±1 58±1 59±1	68±7 70±2 70±2	
	N	<u>B-1</u> N (%)	<u>B-2</u> N (%)	<u>B-3</u> N (%)	<u>B-1</u>	<u>B-2</u>	<u>B-3</u>
Males Females Salmon River, B-stock Total	20 25 45	8 (42%) 13 (52%) 21 (47%)	11 (58%) 12 (48%) 23 (51%)	1 (5%) - 1 (2%)	62±2 62±3 62±2	81±4 79±3 80±3	97 - 97

260 coded wire tags were recovered in the 2002-2003 steelhead fishery from fish reared at Magic Valley Fish Hatchery<sup>c</sup>.

Recovery		Sample	Age Composition by	Mean Fork Length (cm) by
Location	Sex	Size <sup>a</sup>	Stock-Ocean Age	Stock-Ocean Age

# 2002-2003 Run Year, continued.

# **HAGERMAN NATIONAL FISH HATCHERY**

Snake River	N	<u>A-1</u> N (%)	<u>A-2</u> N (%)	<u>A-1</u>	<u>A-2</u>
Males	2	1 (50%)	1 (50%)	66	76
Females	0	-	-	-	-
Snake River Total	2	1 (50%)	1 (50%)	66	76
Salmon River	N	<u>A-1</u> N (%)	<u>A-2</u> N (%)	<u>A-1</u>	<u>A-2</u>
Males	28	8 (29%)	20 (71%)	59±1	75±2
Females	49	4 (8%)	45 (92%)	61±2	71±1
Salmon River Total	77	12 (16%)	65 (84%)	60±1	72±1

<sup>79</sup> coded wire tags were recovered in the 2002-2003 steelhead fishery from fish reared at Hagerman National Fish Hatchery.

# **ALL LSRCP HATCHERIES COMBINED**

Statewide, 397 coded wire tags were recovered in the 2002-2003 steelhead fishery from LSRCP-reared fish<sup>c</sup>.

Recovery Location Sex	Sample Size <sup>a</sup>		Age Composition by Stock-Ocean Age		Mean Fork Length (cm) b Stock-Ocean Age		
2003-2004 Run Year							
		CLEARW	ATER FISH H	ATCHERY			
Snake River	N	<u>B-1</u> N (%)	<u>B-2</u> N (%)	<u>B-3</u> N (%)	<u>B-1</u>	<u>B-2</u>	<u>B-3</u>
Males Females Snake River Total	0 1 1	- 1 (100%) 1 (100%)	- 0 (0%) 0 (0%)	- - -	- 82 82	- - -	- - -
Clearwater River	N	<u>B-1</u> N (%)	<u>B-2</u> N (%)	<u>B-3</u> N (%)	<u>B-1</u>	<u>B-2</u>	<u>B-3</u>
Males Females Clearwater River Total	14 26 40	3 (22%) 0 (%) 3 (8%)	10 (71%) 25 (96%) 35 (87%)	1 (7%) 1 (4%) 2 (5%)	70±8 - 70±8	91±3 83±1 85±2	86 87 87±1

<sup>41</sup> coded wire tags were recovered in the 2003-2004 steelhead fishery from fish reared at Clearwater Fish Hatchery.

## **MAGIC VALLEY FISH HATCHERY**

Snake River	N	<u>A-1</u> N (%)	<u>A-2</u> N (%)		<u>A-1</u>	<u>A-2</u>	
Males Females Snake River Total	0 1 1	0 (0%) 0 (0%)	- 1 (100%) 1 (100%)		- - -	- 70 70	
Salmon River	N	<u>A-1</u> N (%)	<u>A-2</u> N (%)		<u>A-1</u>	<u>A-2</u>	
Males Females Salmon River, A-stock Total	38 66 104	18 (47%) 30 (45%) 48 (46%)	20 (53%) 36 (55%) 56 (54%)		58±2 57±1 57±1	69±3 68±1 68±1	
	N	<u>B-1</u> N (%)	<u>B-2</u> N (%)	<u>B-3</u> N (%)	<u>B-1</u>	<u>B-2</u>	<u>B-3</u>
Males Females Salmon River, B-stock Total	16 19 35	7 (44%) 2 (11%) 9 (26%)	9 (56%) 16 (84%) 25 (71%)	0 (0%) 1 (5%) 1 (3%)	60±1 62±3 61±1	75±4 76±2 76±2	- 88 88

<sup>140</sup> coded wire tags were recovered in the 2003-2004 steelhead fishery from fish reared at Magic Valley Fish Hatchery.

## **HAGERMAN NATIONAL FISH HATCHERY**

Snake River	N	<u>A-1</u> N (%)	<u>A-2</u> N (%)	<u>A-1</u>	<u>A-2</u>
Males	2	2 (100%)	0 (0%)	62±1	_
Females	2	2 (100%)	0 (0%)	63±3	-
Snake River Tot	al 4	4 (100%)	0 (0%)	62±1	-

Recovery Location	Sex	Sample Size <sup>a</sup>	U	e Composition by tock-Ocean Age		Fork Length (cm) by tock-Ocean Age
2003-2004 Run Y	ear, continu	ıed.				
Salmon River		N	<u>A-1</u> N (%)	<u>A-2</u> N (%)	<u>A-1</u>	<u>A-2</u>
	Males	14	13 (93%)	1 (7%)	58±2	70
	Females	15	12 (80%)	3 (20%)	59±3	66±5
Salmor	n River Total	29	25 (86%)	4 (14%)	58±3	67±4

<sup>33</sup> coded wire tags were recovered in the 2003-2004 steelhead fishery from fish reared at Hagerman National Fish Hatchery<sup>d</sup>.

## **ALL LSRCP HATCHERIES COMBINED**

Statewide, 214 coded wire tags were recovered in the 2003-2004 steelhead fishery from LSRCP-reared fish<sup>d</sup>.

Includes creel survey data collected by Washington Department of Fish and Wildlife.

Three additional coded wire tags (CWT) (105402 released from Magic Valley Fish Hatchery, and 105519 and 105522 released from Hagerman National Fish Hatchery) listed in the coded wire tag database as recovered in the Salmon River during the 2001-2002 steelhead season, were without specific biodata.

One additional CWT (105470 released from the Magic Valley Fish Hatchery) listed in the coded wire tag database as recovered in the Snake River during the 2002-2003 steelhead season was without specific biodata.

One additional tag (No. 100772 released from the Hagerman National Fish Hatchery) listed in the coded wire tag database as recovered in the Salmon River during the 2003-2004 steelhead season was without specific biodata.

Appendix C. Coded wire tag recoveries of Lower Snake River Compensation Plan-reared steelhead, by tag code, release site, and number of coded-wire-tagged smolts released, harvest estimates by month and river section, and total harvest estimates for the 2001–2004, 2002–2003, and 2003–2004 seasons.

Tag Code	Stock and Ocean Age	Release Site	No. Fish Released	Recovery Month	River Section (Total)	No. Tags	Sample Rate <sup>a</sup>	Estimated Harvest
		Neicase Oite	Neieasea	WOTH	(Total)	rays	ivate	Tiai vest
2001-2002	<u> 2 Season</u>							
		HAGERMAN NATION	AL FISH HATCI	HERY RELEA	ASES			
10/46/34	A-2	Sawtooth Hatchery	9,701	October November March	15 15 15 <b>Total</b>	1 2 1 <b>4</b>	0.310 0.365 0.281	3 5 4 <b>12</b>
10/46/36	A-2	Little Salmon River	10,137	October November April	12 12 20 <b>Total</b>	1 2 1 <b>4</b>	0.306 0.224 0.090	3 9 11 <b>23</b>
10/46/37	A-2	Little Salmon River	10,003	October February April	12 20 20 <b>Total</b>	1 1 2 <b>4</b>	0.306 0.024 0.090	3 42 22 <b>67</b>
10/46/43	A-2	Sawtooth Hatchery	9,257	October November November March April	15 15 16 16 19 <b>Total</b>	1 1 1 1 5	0.310 0.365 0.178 0.346 0.157	3 3 6 3 6 <b>21</b>
10/46/44	A-2	Sawtooth Hatchery	9,343	November November February March April	14 15 12 14 17 <b>Total</b>	1 1 1 1 1 5	0.292 0.365 0.163 0.253 0.171	3 3 6 4 6 22
10/46/45	A-2	Sawtooth Hatchery	9,509	March March April April	15 17 18 19 <b>Total</b>	1 1 1 1 <b>4</b>	0.281 0.251 0.087 0.157	4 4 11 6 <b>25</b>
10/46/46	A-2	Sawtooth Hatchery	9,875	November November November	14 15 16 <b>Total</b>	1 1 1 3	0.292 0.365 0.178	3 3 6 <b>12</b>
10/51/07	A-2	Sawtooth Hatchery	9,008	November April	15 19 <b>Total</b>	2 1 <b>3</b>	0.365 0.157	5 6 <b>11</b>
10/51/09	A-2	Sawtooth Hatchery	9,495	October October	15 16 <b>Total</b>	1 1 2	0.310 0.153	3 7 <b>10</b>
10/51/10	A-2	Sawtooth Hatchery	9,309	November March March	15 15 16 <b>Total</b>	1 1 1 <b>3</b>	0.365 0.281 0.346	3 4 3 <b>10</b>

Аррепиіх	C. Continued.	•			River			
Tag Code	Stock and Ocean Age	Release Site	No. Fish Released	Recovery Month	Section (Total)	No. Tags	Sample Rate <sup>a</sup>	Estimated Harvest
2001-200	2 Season, co	ntinued.						
10/52/57	A-2	Sawtooth Hatchery	18,973	October November November April April	15 15 16 17 19 <b>Total</b>	2 3 1 1 1 8	0.310 0.365 0.178 0.171 0.157	6 8 6 6 8
10/52/58	A-2	Sawtooth Hatchery	18,786	October November March	15 15 15 <b>Total</b>	1 1 1 3	0.310 0.365 0.281	3 3 4 <b>10</b>
10/52/59	A-2	Sawtooth Hatchery	19,171	November November March March April	15 16 14 15 19 <b>Total</b>	4 1 2 2 1 <b>10</b>	0.365 0.178 0.253 0.281 0.157	11 6 8 7 6 38
10/52/60	A-2	Sawtooth Hatchery	19,426	October November March	15 15 14 <b>Total</b>	3 1 1 <b>5</b>	0.310 0.365 0.253	10 3 4 <b>17</b>
10/52/61	A-2	Sawtooth Hatchery	17,807	October November November November	15 14 15 16 <b>Total</b>	1 1 3 1 <b>6</b>	0.310 0.292 0.365 0.178	3 3 8 6 <b>20</b>
10/52/63	A-2	Sawtooth Hatchery	19,678	October November November November March April	15 12 14 15 16 15 18 19 <b>Total</b>	1 1 1 1 1 1 1 8	0.310 0.224 0.292 0.365 0.178 0.281 0.087 0.157	3 4 3 3 6 4 11 6 40
10/53/01	A-2	Sawtooth Hatchery	20,133	October October November March	15 16 15 16 <b>Total</b>	1 1 1 1 <b>4</b>	0.310 0.153 0.365 0.346	3 7 3 3 <b>16</b>
10/53/02	A-2	Sawtooth Hatchery	18,088	October November November March April	15 15 17 15 18 <b>Total</b>	2 2 1 1 1 7	0.310 0.365 0.020 0.281 0.087	6 5 50 4 11 <b>76</b>

Appendix	C. Continued.	•			River			
Tag Code	Stock and Ocean Age	Release Site	No. Fish Released	Recovery Month	Section (Total)	No. Tags	Sample Rate <sup>a</sup>	Estimated Harvest
2001-2002	2 Season, co	ntinued.						
10/55/16	A-1	Sawtooth Hatchery	17,726	October October October November November December December February March March April	14 15 16 14 15 16 01 16 15 15 16 17 18	1 4 1 2 11 1 1 1 3 2 2 1 7	0.190 0.310 0.153 0.292 0.365 0.178 0.039 0.094 0.100 0.281 0.346 0.251 0.087 0.157	5 13 7 7 30 6 26 11 10 11 6 8 11 45
				7 (2111	Total	38	0.107	196
10/55/17	A-1	Sawtooth Hatchery  Sawtooth Hatchery	20,187	October November November December March March March March April April April	15 16 16 12 14 15 16 17 17 18 19 <b>Total</b>	9 14 2 1 1 1 6 3 1 1 2 9 <b>50</b> 5 1 2	0.310 0.365 0.178 0.094 0.265 0.253 0.281 0.346 0.251 0.171 0.087 0.157	29 38 11 11 4 4 21 9 4 6 23 57 217
40/55/40	A 4	Courte of h Hatabany	10.444	November November November February February March March April	15 16 15 16 12 14 17 19 <b>Total</b>	18 3 1 1 1 2 1 7 42	0.365 0.178 0.100 0.082 0.265 0.253 0.251 0.157	49 17 10 12 4 8 4 45 179
10/55/19	A-1	Sawtooth Hatchery	19,441	October November November February March March March March March April	15 14 15 16 12 14 15 16 17 18 19	2 2 11 1 1 2 6 1 1 1 8 36	0.310 0.292 0.365 0.178 0.163 0.253 0.281 0.346 0.251 0.091 0.157	6 7 30 6 6 8 21 3 4 11 51 <b>153</b>

Appendix	C. Continued.				River			
Tag Code	Stock and Ocean Age	Release Site	No. Fish Released	Recovery Month	Section (Total)	No. Tags	Sample Rate <sup>a</sup>	Estimated Harvest
2001-2002	2 Season, co	ntinued.						
10/55/20	A-1	Sawtooth Hatchery	19,999	October November November November March March March March April	15 14 15 16 17 12 14 15 16 19	6 2 12 1 1 1 1 2 1 14 41	0.310 0.292 0.365 0.178 0.020 0.265 0.253 0.281 0.346 0.157	19 7 33 6 50 4 4 7 3 89 222
10/55/21	A-1	Sawtooth Hatchery	19,312	September October October October November November February March March March March April	01 12 14 15 14 15 16 16 12 15 16 17 19	1 1 2 7 1 5 1 1 1 1 10 1 2 9	0.070 0.306 0.190 0.310 0.292 0.365 0.178 0.082 0.265 0.281 0.346 0.251 0.157	14 3 11 23 3 14 6 12 4 36 3 8 57
10/55/22	A-1	Sawtooth Hatchery	19,563	October October November November November February March March March April	15 16 14 15 16 15 14 15 16 18 19 <b>Total</b>	5 1 2 9 1 1 2 1 1 1 3 <b>27</b>	0.310 0.153 0.292 0.365 0.178 0.100 0.253 0.281 0.346 0.087 0.157	16 7 7 25 6 10 8 4 3 11 19
10/55/23	A-1	Sawtooth Hatchery	18,153	October November November November February February March March March April	15 14 15 16 14 15 16 14 15 17 18 19	2 2 12 1 1 2 1 3 3 1 1 6 35	0.310 0.292 0.365 0.178 0.055 0.100 0.082 0.253 0.281 0.251 0.087 0.157	6 7 33 6 18 20 12 12 11 4 11 38 178

Appendix	C. Continued.				River			
Tag Code	Stock and Ocean Age	Release Site	No. Fish Released	Recovery Month	Section (Total)	No. Tags	Sample Rate <sup>a</sup>	Estimated Harvest
2001-2002	2 Season, co	ntinued.						
10/55/24	A-1	Sawtooth Hatchery	20,170	November November December	14 15 16	2 12 1	0.292 0.365 0.094	7 33 11
				February February March March	15 16 14 15	1 1 2 7	0.100 0.082 0.253 0.281	10 12 8 25
				March March	16 17 18	3 1	0.261 0.346 0.251 0.087	9 4 11
				April April	19 <b>Total</b>	1 6 <b>37</b>	0.157	38 <b>168</b>
10/55/25	A-1	Sawtooth Hatchery	20,757	October November	15 14	3 1	0.310 0.292	10 3
				November February March	15 15 15	11 1 7	0.365 0.100 0.281	30 10 25
				March March April	16 17 17	1 2 1	0.346 0.251 0.171	3 8 6
				April April	18 19 <b>Total</b>	1 4 <b>32</b>	0.087 0.157	11 25 <b>131</b>
10/55/26	A-1	Sawtooth Hatchery	19,549	October November	15 14	5 2	0.310 0.292	16 7
				November November February	15 16 15	10 3 1	0.365 0.178 0.100	27 17 10
				March March April	15 17 18	2 1 1	0.281 0.251 0.087	7 4 11
				April	19 <b>Total</b>	9 <b>34</b>	0.157	57 <b>156</b>
10/55/27	A-1	Sawtooth Hatchery	19,809	September	01	1	0.070	14
				October October November	14 15 14	1 5 1	0.190 0.310 0.292	5 16 3
				November February March	15 15 14	4 2 1	0.365 0.100 0.253	11 20 4
				March March March	15 16 17	11 6 1	0.281 0.346	39 17 4
				April April	17 17 19 <b>Total</b>	1 4 <b>38</b>	0.251 0.171 0.157	4 6 25 <b>164</b>
	an National chery Total	30 Mark Group	s			540		2,536

Appendix	C. Continued							
Tag Code	Stock and Ocean Age	Release Site	No. Fish Released	Recovery Month	River Section (Total)	No. Tags	Sample Rate <sup>a</sup>	Estimated Harvest
2001-200	2 Season, co	ntinued.						
		MAGIC VALLEY FI	SH HATCHER	Y RELEASE	S			
10/36/06	۸.1	Salmon River at Lemhi River	62,081	October	12	1	0.306	3
10/00/00	<b>7</b> 1	Samon raver at Lemm raver	02,001	October October November November March March	14 15 14 15 14 15	1 18 13 47 7 15	0.190 0.310 0.292 0.365 0.253 0.281	5 58 45 129 28 53
				March March April April April	16 17 16 17 18 <b>Total</b>	17 3 5 1 2 <b>130</b>	0.346 0.251 0.056 0.171 0.087	49 12 89 6 23 <b>500</b>
10/46/48	A-1	Salmon River at Shoup Bridge	7,663	October October November March March April	14 15 15 14 15 17 <b>Total</b>	1 2 6 1 3 1 <b>14</b>	0.190 0.310 0.365 0.253 0.281 0.171	5 6 16 4 11 6 <b>48</b>
10/48/29	A-1	Salmon River at Tunnel Rock	11,153	October October November November February March March March April	14 15 12 14 15 12 12 14 15 17 19	3 1 1 1 1 10 1 1 1 2 1 5 27	0.190 0.310 0.224 0.292 0.365 0.163 0.265 0.253 0.281 0.171 0.157	16 3 4 3 27 6 4 4 7 6 32 <b>112</b>
10/52/53	B-2	Squaw Creek Pond Below Outlet	16,755	November March March April	15 12 14 15 <b>Total</b>	1 1 1 1 4	0.365 0.265 0.253 0.163	3 4 4 6 <b>17</b>
10/52/54	B-2	Squaw Creek Pond Below Outlet	17,683	April	19 <b>Total</b>	1 <b>1</b>	0.157	6 <b>6</b>
10/52/55	B-2	Squaw Creek Pond Below Outlet	14,407	October November February April	12 14 12 19 <b>Total</b>	1 3 1 2 <b>7</b>	0.306 0.292 0.163 0.157	3 10 6 13 <b>32</b>
10/52/56	B-2	Little Salmon River	16,416	November April	12 20 <b>Total</b>	1 1 <b>2</b>	0.224 0.090	4 11 <b>15</b>

Аррениіх	C. Continued.	•			River			
Tag Code	Stock and Ocean Age	Release Site	No. Fish Released	Recovery Month	Section (Total)	No. Tags	Sample Rate <sup>a</sup>	Estimated Harvest
2001-2002	2 Season, co	ntinued.						
10/54/01	B-2	Salmon River at Tunnel Rock	53,680	October November November March March April	01 14 15 15 17 18	1 4 1 1 1 2	0.095 0.292 0.365 0.281 0.251 0.087	11 14 3 4 4 23
10/54/02	B-2	Squaw Creek (Upper Salmon River)	58,514	November November November December February March March March March April	Total 12 14 15 12 12 12 14 15 17 17 19 Total	10 1 2 1 1 1 1 3 1 1 2 15	0.224 0.292 0.365 0.053 0.163 0.265 0.253 0.281 0.251 0.171 0.157	59 4 3 5 19 6 4 4 11 4 6 13 79
10/54/03	B-2	East Fork Salmon River at Dumpster	59,129	October November November November March March April	15 13 14 15 15 16 18 <b>Total</b>	1 5 4 2 1 2 <b>16</b>	0.310 0.046 0.292 0.365 0.281 0.346 0.087	3 22 17 11 7 3 23 86
10/54/04	A-2	Salmon River at Tunnel Rock	53,680	October October November November February March March March April	13 15 14 15 16 16 15 16 17 18 <b>Total</b>	1 2 4 4 1 1 5 1 1 2 22	0.078 0.310 0.292 0.365 0.178 0.082 0.281 0.346 0.251 0.087	13 6 14 11 6 12 18 3 4 23 <b>110</b>
10/54/05	A-2	Salmon River at Shoup Bridge	60,453	October October November November November March March March	14 15 14 15 16 14 15 16 17 <b>Total</b>	1 12 2 18 2 2 4 1 3 45	0.190 0.310 0.292 0.365 0.178 0.253 0.281 0.346 0.251	5 39 7 49 11 8 14 3 12 148

Tag Code	Stock and Ocean Age	Release Site	No. Fish Released	Recovery Month	River Section (Total)	No. Tags	Sample Rate <sup>a</sup>	Estimated Harvest
2001-2002	2 Season, co	ntinued.				_		
10/54/06	A-2	Salmon River at Red Rock	60,343	October October November November November February March March March April	14 15 14 15 16 15 14 15 16 18 <b>Total</b>	3 4 1 14 1 1 1 8 6 1 <b>40</b>	0.190 0.310 0.292 0.365 0.178 0.100 0.253 0.281 0.346 0.087	16 13 3 38 6 10 4 28 17 11
10/54/13	B-1	Squaw Creek (Upper Salmon River)	50,820	November April	14 17 <b>Total</b>	1 1 <b>2</b>	0.292 0.171	3 6 <b>9</b>
10/54/14	A-1	Salmon River at Shoup Bridge	46,866	October October October November November November December March March March April April	12 14 15 14 15 16 16 14 15 16 17 15 16 17 <b>Total</b>	1 1 18 9 33 1 1 4 13 3 2 1 1 1 1 8	0.306 0.190 0.310 0.292 0.365 0.178 0.094 0.253 0.281 0.346 0.251 0.163 0.056 0.171	3 5 58 31 90 6 11 16 46 9 8 6 18 6
10/54/15	A-1	Salmon River at Tunnel Rock	50,300	October October October November November November November February February March March March March April April	14 15 16 01 14 15 16 12 16 12 14 15 16 17 18 19 <b>Total</b>	2 9 1 1 5 27 2 2 3 1 3 8 3 2 3 12 84	0.190 0.310 0.153 0.087 0.292 0.365 0.178 0.163 0.082 0.265 0.253 0.281 0.346 0.251 0.087	11 29 7 11 17 74 11 12 37 4 12 28 9 8 34 76 380
	/alley Fish ery Total	16 Mark Groups				508		2,060

Tag	Stock and		No. Fish	Recovery	River Section	No.	Sample	Estimated
Code	Ocean Age	Release Site	Released	Month	(Total)	Tags	Rate	Harvest
2001-2002	Season, co	ntinued.						
		CLEARWAT	TER FISH HAT	CHERY				
10/47/38	B-3	South Fork Clearwater River	21,859	January March	03/05 07 <b>Total</b>	1 1 <b>2</b>	0.126 0.180	8 6 <b>14</b>
10/47/40	B-3	South Fork Clearwater River	21,093	March	04 <b>Total</b>	1 <b>1</b>	0.072	14 <b>14</b>
10/52/33	B-2	Clear Creek	20,668	December January February March April	03/05 03/05 03/05 07 07 <b>Total</b>	1 2 2 1 1 7	0.040 0.126 0.184 0.180 0.085	25 16 11 6 12 <b>70</b>
0/52/35	B-2	South Fork Clearwater River	20,645	December January February March March April	03/05 03/05 03/05 03/05 07 07 Total	1 1 1 1 2 1 7	0.040 0.126 0.184 0.170 0.180 0.085	25 8 5 6 11 12 <b>67</b>
0/52/36	B-2	South Fork Clearwater River	21,200	October December January February March March April	03/05 03/05 03/05 03/05 03/05 07 07 Total	3 1 1 1 1 2 1	0.067 0.040 0.126 0.184 0.170 0.180 0.085	45 25 8 5 6 11 12 <b>112</b>
0/52/37	B-2	South Fork Clearwater River	20,763	October February March March	03/05 03/05 03/05 07 <b>Total</b>	2 2 1 2 <b>7</b>	0.067 0.184 0.170 0.180	30 11 6 11 <b>58</b>
10/54/08	B-1	South Fork Clearwater River	31,196	February March	03/05 07 <b>Total</b>	1 1 <b>2</b>	0.184 0.180	5 6 <b>11</b>
10/54/19	B-1	Clear Creek	43,375	March	07 <b>Total</b>	1 <b>1</b>	0.180	6 <b>6</b>
10/54/26	B-1	South Fork Clearwater River	32,101	March April	07 07 <b>Total</b>	1 2 <b>3</b>	0.180 0.085	6 24 <b>30</b>
Clearwater Fish Hatchery Total		9 Mark Grou	ıps			40		382
Grand Total		55 Marked Grou	ıps			1,088		4,978

Tag Code	Stock and Ocean Age	Release Site	No. Fish Released	Recovery Month	River Section (Total)	No. Tags	Sample Rate <sup>a</sup>	Estimated Harvest
2002-2003					, ,	-		
		HAGERMAN NATIO	NAL FISH HATC	HERY RELEA	ASES			
10/48/03	A-1	Sawtooth Hatchery	20,236	March April	15 19 <b>Total</b>	1 1 <b>2</b>	0.249 0.091	4 11 <b>15</b>
10/48/06	A-1	Sawtooth Hatchery	20,278	September October November March March March April	03/05 15 15 15 16 17 19 <b>Total</b>	1 2 3 1 1 2 1	0.007 0.263 0.144 0.249 0.281 0.178 0.091	143 8 21 4 4 11 11 202
10/55/16	A-2	Sawtooth Hatchery	17,726	October October November March March April	03/05 15 13 18 19 19	1 1 1 1 1 6	0.027 0.263 0.153 0.246 0.104 0.091	37 4 7 4 10 11 <b>73</b>
10/55/17	A-2	Sawtooth Hatchery	20,187	October March March April	15 15 19 19 <b>Total</b>	1 2 1 2 <b>6</b>	0.263 0.249 0.104 0.091	4 8 10 22 <b>44</b>
10/55/18	A-2	Sawtooth Hatchery	19,670	October October November November November March March April	14 15 12 14 15 15 19 19 <b>Total</b>	1 2 1 1 2 1 5 1 <b>14</b>	0.288 0.263 0.207 0.211 0.144 0.249 0.104 0.091	3 8 5 5 14 4 48 11 <b>98</b>
10/55/19	A-2	Sawtooth Hatchery	19,441	November November April	12 14 19 <b>Total</b>	1 1 1 3	0.207 0.211 0.091	5 5 11 <b>21</b>
10/55/20	A-2	Sawtooth Hatchery	19,999	November November April	14 15 19 <b>Total</b>	1 1 1 3	0.211 0.144 0.091	5 7 11 <b>23</b>
10/55/21	A-2	Sawtooth Hatchery	19,312	October March April	14 19 19 <b>Total</b>	1 1 1 3	0.288 0.104 0.091	3 10 11 <b>24</b>
10/55/22	A-2	Sawtooth Hatchery	19,563	March March March April	15 17 19 19 <b>Total</b>	1 1 1 2 <b>5</b>	0.249 0.178 0.104 0.091	4 6 10 22 <b>42</b>

Appendix	C. Continued				River			
Tag Code	Stock and Ocean Age	Release Site	No. Fish Released	Recovery Month	Section (Total)	No. Tags	Sample Rate <sup>a</sup>	Estimated Harvest
2002-2003	3 Season, co	ntinued.						
10/55/23	A-2	Sawtooth Hatchery	18,153	October February March March April	15 12 14 15 19 <b>Total</b>	1 1 2 1 3 8	0.263 0.157 0.150 0.249 0.091	4 6 13 4 33 <b>60</b>
10/55/24	A-2	Sawtooth Hatchery	20,170	October March April	15 18 19 <b>Total</b>	1 1 1 3	0.263 0.246 0.091	4 4 11 <b>19</b>
10/55/25	A-2	Sawtooth Hatchery	20,757	October November March March March April	15 15 15 17 18 18 <b>Total</b>	1 1 1 3 1 1 8	0.263 0.144 0.249 0.178 0.246 0.221	4 7 4 17 4 5 <b>41</b>
10/55/26	A-2	Sawtooth Hatchery	19,549	November March March April	14 15 19 19 <b>Total</b>	1 2 1 1 <b>5</b>	0.211 0.249 0.104 0.091	5 8 10 11 <b>34</b>
10/55/27	A-2	Sawtooth Hatchery	19,809	March April	15 19 <b>Total</b>	1 1 2	0.249 0.091	4 11 <b>15</b>
	an National chery Total	14 Mark Groups				79		711
		MAGIC VALLEY FISH	I HATCHER	Y RELEASES	S			
10/36/05	B-2	Little Salmon River at Stinky Springs	63,244	October November February March April	01 01 12 20 20 <b>Total</b>	2 2 1 2 1 <b>8</b>	0.089 0.172 0.157 0.153 0.083	22 12 6 13 12 <b>65</b>
10/36/06	A-2	Lemhi River	62,081	October October October November March March	01 13 15 15 15 16 <b>Total</b>	1 1 2 3 4 2 <b>13</b>	0.089 0.186 0.263 0.144 0.249 0.281	11 5 8 21 16 7 <b>68</b>
10/46/47	B-2	Squaw Creek (Upper Salmon River)	10,523	November	11 <b>Total</b>	1 <b>1</b>	0.016	63 <b>63</b>

Tag Code	Stock and Ocean Age	Release Site	No. Fish Released	Recovery Month	River Section (Total)	No. Tags	Sample Rate <sup>a</sup>	Estimated Harvest
2002-200	3 Season, co	ntinued.						
10/48/15	B-1	Squaw Creek (Upper Salmon River)	19,332	October October November February March March April	14 15 11 12 15 17 19 <b>Total</b>	1 2 1 1 1 1 2 <b>9</b>	0.288 0.263 0.016 0.157 0.249 0.178 0.091	3 8 63 6 4 6 22 <b>112</b>
10/48/16	B-1	Squaw Creek (Upper Salmon River)	17,551	October October October November November April	01 14 15 14 15 19 <b>Total</b>	1 1 4 1 2 2 <b>11</b>	0.089 0.288 0.263 0.211 0.144 0.091	11 3 15 5 14 22 <b>70</b>
10/48/18	A-1	Salmon River at Tunnel Rock	21,486	September October October November March March March March	03/05 12 15 15 15 16 18 19	1 1 3 2 2 1 3 1 <b>14</b>	0.007 0.353 0.263 0.144 0.249 0.281 0.246 0.104	143 3 11 14 8 4 12 10 205
10/48/19	A-1	Salmon River at Tunnel Rock	21,061	October October March March April April	15 16 14 15 18 19 <b>Total</b>	2 1 2 1 1 1 8	0.263 0.139 0.150 0.249 0.221 0.091	8 7 13 4 5 11
10/48/20	A-1	Salmon River at Tunnel Rock	20,775	October October November March April	12 15 14 15 18 <b>Total</b>	1 4 1 1 1 8	0.353 0.263 0.211 0.249 0.221	3 15 5 4 5 <b>32</b>
10/48/21	B-1	Squaw Creek (Upper Salmon River)	18,730	November November	13 14 <b>Total</b>	1 1 <b>2</b>	0.153 0.211	7 5 <b>12</b>
10/48/29	A-2	Salmon River at Tunnel Rock	11,153	October February March	15 12 15 <b>Total</b>	1 1 1 3	0.263 0.157 0.249	4 6 4 <b>14</b>

Appendix	C. Continued	•			River				
Tag Code	Stock and Ocean Age	Release Site	No. Fish Released	Recovery Month	Section (Total)	No. Tags	Sample Rate <sup>a</sup>	Estimated Harvest	
			Ttolouocu	Month	(Total)	rugo	ruto	Haivoot	
2002-2003	3 Season, co	ntinued.							
10/48/35	A-1	Salmon River at Shoup Bridge	32,006	October	12	1	0.353	3	
				October	14	2	0.288	7	
				October	15	9	0.263	34	
				October	16	1	0.139	7	
				November	15	1	0.144	7	
				November	16	1	0.063	16	
				March	15	2	0.249	8	
				March	16	3	0.281	11	
				March	17 <b>Total</b>	1 <b>21</b>	0.178	6 <b>99</b>	
					iotai	21		33	
10/48/36	A-1	Lemhi River at mouth	31,626	October	12	1	0.353	3	
				October	15	7	0.263	27	
				October	16	2	0.139	14	
				November	15	4	0.144	28	
				March	14	1	0.150	7	
				March	15	2	0.249	8	
				March	16	9	0.281	32	
				April	_16	1	0.014	71	
					Total	27		190	
10/52/70	B-1	Little Salmon River at Stinky Springs	21,575	October	01	1	0.089	11	
		Springs		November	01	1	0.172	6	
					Total	2		17	
10/53/70	B-1	Little Salmon River at Stinky Springs	13,350	October	11	1	0.038	26	
		Springs	-,	October	15	1	0.263	4	
		-1 3-		December	01	1	0.045	22	
					Total	3		52	
10/54/03	B-3	East Fork Salmon River at Dumpster	59,129	March	15	1	0.249	4	
		·	·		Total	1		4	
10/54/13	B-2	Squaw Creek (Upper Salmon River)	50,820	October	01	2	0.089	22	
		equalities (Opportunities)	00,020	October	14	1	0.288	3	
				November	01	2	0.172	12	
				November	12	3	0.207	14	
				December	01	1	0.045	22	
				February	12	2	0.157	13	
				March	14	2	0.150	13	
				March	15	2	0.249	8	
				March	16	2	0.281	7	
				March	17	2	0.178	11	
				March	19	1	0.104	10	
				April	18	2	0.221	9	
				April	19	1	0.091	11	
					Total	23		155	
10/54/14	A-2	Salmon River at Shoup Bridge	46,866	October	14	1	0.288	3	
		· -		October	15	1	0.263	4	
				November	14	2	0.211	9	
				November	15	2	0.144	14	
				March	12	1	0.094	11	
				March	16	1	0.281	4	
					Total	8		45	

,	C. Continued	•		River				
Tag Code	Stock and Ocean Age	Release Site	No. Fish Released	Recovery Month	Section (Total)	No. Tags	Sample Rate <sup>a</sup>	Estimated Harvest
2002-2003	3 Season, co	ntinued.						
10/54/15	A-2	Salmon River at Tunnel Rock	50,300	October October November November March	12 16 13 15 17 <b>Total</b>	1 1 1 1 1 5	0.353 0.139 0.153 0.144 0.178	3 7 7 7 6 <b>30</b>
10/54/70	A-1	Salmon River at Hammer Creek	20,080	September October October November November March	03/05 01 12 01 12 12 Total	1 2 1 3 1 1 <b>9</b>	0.007 0.089 0.353 0.172 0.207 0.094	143 22 3 17 5 11 <b>201</b>
10/55/70	A-1	Salmon River at Hammer Creek	22,239	October October November February March March	01 12 01 12 12 17 <b>Total</b>	5 2 1 1 2 1 <b>12</b>	0.089 0.353 0.172 0.157 0.094 0.178	56 6 6 21 6 <b>101</b>
10/56/70	A-1	Salmon River at Hammer Creek	21,969	October October November March	01 12 01 10 <b>Total</b>	1 1 2 1 <b>5</b>	0.089 0.353 0.172 0.008	11 3 12 125 <b>151</b>
10/57/70	A-1	Lemhi River at L6 Site	21,744	October October November November November March	14 15 13 14 15 15 <b>Total</b>	1 3 1 1 2 2 <b>10</b>	0.288 0.263 0.153 0.211 0.144 0.249	3 11 7 5 14 8 48
10/58/70	A-1	Lemhi River at L6 Site	22,243	September November	03/05 15 <b>Total</b>	2 1 <b>3</b>	0.007 0.144	286 7 <b>293</b>
10/59/70	A-1	Lemhi River at L6 Site	21,488	October November November November	15 12 14 15 <b>Total</b>	4 1 1 1 7	0.263 0.207 0.211 0.144	15 5 5 7 <b>32</b>
10/60/70	A-1	Salmon River at Red Rock	22,310	October October October November November November March March	12 14 15 16 01 12 15 15 16 17	1 2 4 1 1 1 4 2 1 2 <b>19</b>	0.353 0.288 0.263 0.139 0.172 0.207 0.144 0.249 0.281 0.178	3 7 15 7 6 5 28 8 4 11 <b>94</b>

Tag Code	Stock and Ocean Age	Release Site	No. Fish Released	Recovery Month	River Section (Total)	No. Tags	Sample Rate <sup>a</sup>	Estimated Harvest
2002-200	3 Season, co				, ,	-		
10/61/70	A-1	Salmon River at Red Rock	21,856	October October November	14 15 15	2 3 3	0.288 0.263 0.144	7 11 21
				March March March March	15 16 17 18 <b>Total</b>	4 1 1 1 1	0.249 0.281 0.178 0.246	16 4 6 4 <b>69</b>
10/62/70	A-1	Salmon River at Red Rock	21,222	September October October November February March	03/05 01 15 15 12 14	1 3 1 2 1 1	0.007 0.089 0.263 0.144 0.157 0.150	143 34 4 14 6 7
				March March March	15 16 17 <b>Total</b>	3 1 1 <b>14</b>	0.249 0.281 0.178	12 4 6 <b>230</b>
	Valley Fish ery Total	27 Mark Grou	ps			261		2,500
		CLEARWAT	ER FISH HAT	CHERY				
10/48/26	B-1	South Fork Clearwater at Red House Hole	20,736	March	07 <b>Total</b>	1 <b>1</b>	0.133	8 <b>8</b>
10/48/28	B-1	South Fork Clearwater at Red House Hole	20,914	October November March	03/05 03/05 07 <b>Total</b>	1 1 1 3	0.027 0.050 0.133	37 20 8 <b>65</b>
10/54/08	B-2	South Fork Clearwater at Red House Hole	31,196	October November February February March	03/05 01 04 07 07 <b>Total</b>	1 1 1 5 8 <b>16</b>	0.027 0.172 0.011 0.132 0.133	37 6 91 38 60 <b>232</b>
10/54/19	B-2	Clear Creek	43,375	October January February February February March	03/05 03/05 03/05 04 07 04 <b>Total</b>	1 6 1 1 1 1	0.027 0.104 0.048 0.011 0.132 0.025	37 58 21 91 8 40 <b>255</b>
10/54/26	B-2	South Fork Clearwater at Red House Hole	32,101	September October October November December January February February March April	03/05 01 03/05 03/05 03/05 03/05 04 07 07 07 Total	1 1 1 1 2 1 1 4 10 5 27	0.007 0.089 0.027 0.050 0.039 0.104 0.011 0.132 0.133 0.075	143 11 37 20 51 10 91 30 75 67

Appendix	C. Continued	•			River			
Tag Code	Stock and Ocean Age	Release Site	No. Fish Released	Recovery Month	Section (Total)	No. Tags	Sample Rate <sup>a</sup>	Estimated Harvest
2002-200	3 Season, co	ntinued.						
	water Fish							
Hatch	nery Total	5 Mark Group	S			58		1,095
Grand To	otal	46 Marked Group	S			398		4,306
2003-200	4 SEASON							
		HAGERMAN NATIONAL	FISH HATCI	HERY RELEA	SES			
100772	A-1	Sawtooth Hatchery	43,087	October October October November November November February March March March April	01 12 15 01 13 15 16 17 15 16 19 17 19 <b>Total</b>	1 1 5 3 1 1 3 1 1 8 1 1 2 2 30	0.108 0.336 0.262 0.213 0.455 0.235 0.137 0.034 0.404 0.192 0.075 0.193 0.181	9 3 19 14 2 13 7 29 20 5 13 10 11 <b>155</b>
104803	A-2	Sawtooth Hatchery	20,236	November	15 <b>Total</b>	1 <b>1</b>	0.235	4 <b>4</b>
104806	A-2	Sawtooth Hatchery	20,278	November November March	12 15 15 <b>Total</b>	1 1 1 3	0.323 0.235 0.404	3 4 2 <b>9</b>
	nan National tchery Total	3 Mark Group	s			34		168
		MAGIC VALLEY FIS	H HATCHER	Y RELEASES	3			
10/10/72	B-1	Squaw Creek (upper Salmon River)	9,893	October	14 <b>Total</b>	1 <b>1</b>	0.145	7 <b>7</b>
10/11/72	A-1	Salmon River at Challis	10,943	November November	15 16 <b>Total</b>	2 1 <b>3</b>	0.235 0.137	9 7 <b>16</b>
10/12/72	A-1	Lemhi River at St. Charles Bridge	10,833	October November November November March March March April	15 12 14 15 15 16 17 16 <b>Total</b>	2 1 1 1 3 1 1 <b>11</b>	0.262 0.323 0.129 0.235 0.404 0.192 0.161 0.110	8 3 8 4 2 16 6 9 <b>56</b>

Tag Code	Stock and Ocean Age		No. Fish Released	Recovery Month	River Section (Total)	No. Tags	Sample Rate <sup>a</sup>	Estimated Harvest
2003-2004	4 Season, co	ntinued.						
10/46/47	B-3	Squaw Creek (upper Salmon River)	10,523	March	16 <b>Total</b>	1 <b>1</b>	0.192	5 <b>5</b>
10/48/15	B-2	Squaw Creek (upper Salmon River)	19,332	March March	15 16 <b>Total</b>	2 1 <b>3</b>	0.404 0.192	5 5 <b>10</b>
10/48/16	B-2	Squaw Creek (upper Salmon River)	17,551	October November November November November March March April	15 12 13 14 15 14 15 19 <b>Total</b>	1 1 1 1 1 1 1 1 8	0.262 0.323 0.455 0.129 0.235 0.136 0.404 0.181	4 3 2 8 4 7 2 6
10/48/18	A-2	Salmon River at Tunnel Rock	21,486	October November February March	15 15 16 15 <b>Total</b>	2 1 1 1 5	0.262 0.235 0.165 0.404	8 4 6 2 <b>20</b>
10/48/19	A-2	Salmon River at Tunnel Rock	21,061	November November February	15 17 12 <b>Total</b>	1 1 1 3	0.235 0.006 0.061	4 167 16 <b>187</b>
10/48/20	A-2	Salmon River at Tunnel Rock	20,775	March	16 <b>Total</b>	1 <b>1</b>	0.192	5 <b>5</b>
10/48/21	B-2	Squaw Creek (upper Salmon River)	18,730	October November March	16 13 15 <b>Total</b>	1 2 1 <b>4</b>	0.116 0.455 0.404	9 4 2 <b>15</b>
10/48/22	B-2	Squaw Creek (upper Salmon River)	17,810	November March	12 15 <b>Total</b>	1 1 <b>2</b>	0.323 0.404	3 2 <b>5</b>
10/48/35	A-2	Salmon River at Shoup Bridge	32,006	October November March March	15 15 15 16 <b>Total</b>	4 2 2 1 <b>9</b>	0.262 0.235 0.404 0.192	15 9 5 5 <b>34</b>
10/48/36	A-2	Lemhi River at mouth	31,626	October November March March	15 15 16 17 <b>Total</b>	3 1 5 1 <b>10</b>	0.262 0.235 0.192 0.161	11 4 26 6 <b>47</b>
10/51/70	B-2	Little Salmon River at Stinky Springs	21,671	October November	12 11 <b>Total</b>	1 1 <b>2</b>	0.336 0.028	3 36 <b>39</b>
10/52/70	B-2	Little Salmon River at Stinky Springs	21,575	November March April	12 20 20 <b>Total</b>	1 1 1 3	0.323 0.064 0.046	3 16 22 <b>41</b>

Tag Code	Stock and Ocean Age	Release Site	No. Fish Released	Recovery Month	River Section (Total)	No. Tags	Sample Rate <sup>a</sup>	Estimated Harvest
2003-2004	4 Season, co	ntinued.						
10/53/70	B-2	Little Salmon River at Stinky Springs	13,350	March April	12 18 <b>Total</b>	2 1 <b>3</b>	0.290 0.080	7 13 <b>20</b>
10/54/70	A-2	Salmon River at Hammer Creek	20,080	October November November	12 01 12 <b>Total</b>	1 1 1 3	0.336 0.213 0.323	3 5 3 <b>11</b>
10/55/70	A-2	Salmon River at Hammer Creek	22,239	November	10 <b>Total</b>	1 <b>1</b>	0.016	63 <b>63</b>
10/56/70	A-2	Salmon River at Hammer Creek	21,969	October November	13 11 <b>Total</b>	1 1 2	0.152 0.028	7 36 <b>43</b>
10/57/70	A-2	Lemhi River at L6 Site	21,744	March	15 <b>Total</b>	1 <b>1</b>	0.404	2 <b>2</b>
10/58/70	A-2	Lemhi River at L6 Site	22,243	November	13 <b>Total</b>	1 <b>1</b>	0.455	2 <b>2</b>
10/59/70	A-2	Lemhi River at L6 Site	21,488	October March	15 16 <b>Total</b>	1 1 <b>2</b>	0.262 0.192	4 5 <b>9</b>
10/60/70	A-2	Salmon River at Red Rock	22,310	October October November November March	14 15 15 16 15 <b>Total</b>	1 2 3 1 2 <b>9</b>	0.145 0.262 0.235 0.137 0.404	7 8 13 7 5 <b>40</b>
10/61/70	A-2	Salmon River at Red Rock	21,856	October March	15 15 <b>Total</b>	2 3 <b>5</b>	0.262 0.404	8 7 <b>15</b>
10/62/70	A-2	Salmon River at Red Rock	21,222	October October November March March	15 16 16 15 16 <b>Total</b>	1 1 1 1 1 5	0.262 0.116 0.137 0.404 0.192	4 9 7 2 5 <b>27</b>
10/66/70	B-1	Squaw Creek (upper Salmon River)	20,439	October November March March April	15 15 15 18 19 <b>Total</b>	2 1 1 2 1 7	0.262 0.235 0.404 0.315 0.181	8 4 2 6 6 26
10/67/70	A-1	Salmon River at Challis	21,504	October November March March	15 15 15 18 <b>Total</b>	3 5 1 1 <b>10</b>	0.262 0.235 0.404 0.315	11 21 2 3 <b>37</b>

Appendix	C. Continued	•			River			
Tag	Stock and		No. Fish	Recovery	Section	No.	Sample	Estimated
Code	Ocean Age	Release Site	Released	Month	(Total)	Tags	Rate	Harvest
2003-2004	1 Season, co	ntinued.						
10/68/70	A-1	Lemhi River at St. Charles bridge	21,328	October November November November February March March April	15 13 14 15 16 15 16 16 Total	3 1 5 3 1 7 3 1 <b>24</b>	0.262 0.455 0.129 0.235 0.165 0.404 0.192 0.110	11 2 39 13 6 17 16 9
10/93/71	B-1	Squaw Creek (upper Salmon River)	31,518	November	13 <b>Total</b>	1 <b>1</b>	0.455	2 <b>2</b>
	/alley Fish ery Total	29 Mark Groups				140		933
		CLEARWATER	FISH HATO	CHERY				
10/48/02	B-2	Clear Creek	21,439	December February March	03/05 04 04 <b>Total</b>	2 1 1 <b>4</b>	0.047 0.063 0.051	43 16 20 <b>79</b>
10/48/10	B-1	South Fork Clearwater River at Red House Hole	21,104	March	07 <b>Total</b>	1 <b>1</b>	0.116	9 <b>9</b>
10/48/12	B-1	South Fork Clearwater River at Red House Hole	22,629	February	04 <b>Total</b>	1 <b>1</b>	0.063	16 <b>16</b>
10/48/23	B-2	Crooked River	22,679	October	03/05 <b>Total</b>	1 <b>1</b>	0.050	20 <b>20</b>
10/48/24	B-2	Crooked River	22,010	October December March	03/05 03/05 07 <b>Total</b>	1 1 3 <b>5</b>	0.050 0.047 0.116	20 21 26 <b>67</b>
10/48/25	B-2	Crooked River	21,977	March April	07 02 <b>Total</b>	1 1 <b>2</b>	0.116 	9 1 <b>10</b>
10/48/26	B-2	South Fork Clearwater River at Red House Hole	20,736	November February February February March April	03/05 03/05 04 07 07 07 <b>Total</b>	1 1 2 1 1 7	0.05 0.057 0.063 0.141 0.116 0.236	20 18 32 7 9 4
10/48/27	B-2	South Fork Clearwater River at Red House Hole	22,076	January March April	03/05 07 07 <b>Total</b>	2 7 1 <b>10</b>	0.084 0.116 0.236	24 60 4 88
10/48/28	B-2	South Fork Clearwater River at Red House Hole	20,914	March April	07 07 <b>Total</b>	5 2 <b>7</b>	0.116 0.236	43 8 <b>51</b>

Tag Code	Stock and Ocean Age	Release Site	No. Fish Released	Recovery Month	River Section (Total)	No. Tags	Sample Rate <sup>a</sup>	Estimated Harvest
2003-2004	l Season, co	ntinued.						
10/54/08	B-3	South Fork Clearwater River at Red House Hole	31,196	January	03/05 <b>Total</b>	1 <b>1</b>	0.084	12 <b>12</b>
10/54/26	B-3	South Fork Clearwater River at Red House Hole	32,101	April	07 <b>Total</b>	1 <b>1</b>	0.236	4 <b>4</b>
10/63/70	B-1	Crooked River Ponds	12,573	February	04 <b>Total</b>	1 <b>1</b>	0.063	16 <b>16</b>
	vater Fish ery Total	12 Mark Groups				41		462
Grand To	tal	44 Marked Groups				215		1,563

<sup>&</sup>lt;sup>a</sup> Includes creel survey data collected by Washington Department of Fish and Wildlife.

Appendix D. Summary of harvest estimates and hatchery returns of steelhead produced by Lower Snake River Compensation Plan hatchery facilities, 2001–2004.

									Estima	ated No. of	Fish	
Release Year	Stock and Ocean Age	Release Site	Stock Name <sup>a</sup>	Marking Purpose	Tags	No. of Fish Tagged	n Released Untagged	Mark Rate	Harvest	Hatchery Returns <sup>b</sup>	Total	Exploitation Rate
Fall 2001-	-Spring 2002	<u>Season</u>										
				HAGERMAN NATIO	NAL FISH HATCH	HERY RELEA	ASES					
2000	A-1	Sawtooth Hatchery	SFH	Early Egg Take;	CWT 10/55/16	17,726			196	132	328	0.60
_000	, , ,	Same and Flaterier,	0	Direct Release	CWT 10/55/17	20,187			217	112	329	0.66
				2001.10.0000	CWT 10/55/18°	19,670			179	125	304	0.59
					None	,	1,605 <sup>d</sup>		17	10	27	0.64
			SFH	Acclimation;	CWT 10/55/19 <sup>c</sup>	19,441			153	99	252	0.61
				% Body Weight	CWT 10/55/20°	19,999			222	79	301	0.74
				Diet	CWT 10/55/22 <sup>c</sup>	19,563			116	92	208	0.56
					None	,	486,823		4,051	2,090	6,141	0.66
			SFH	Acclimation;	CWT 10/55/21°	19,312			194	106	300	0.65
				Feed/Fast	CWT 10/55/23°	18,153			178	112	290	0.61
					CWT 10/55/24 <sup>c</sup>	20,170			168	92	260	0.65
					None	•	4,193		39	21	60	0.65
			SFH	Late Egg Take;	CWT 10/55/25°	20,757			131	90	221	0.59
				Direct Release	CWT 10/55/26	19,549			156	91	247	0.63
					CWT 10/55/27	19,809			164	103	267	0.61
					None		839		6	4	10	0.60
		Subtotals			No Beleased	234,336		0.00	C 40 <del>7</del>	2.250	0.545	0.05
					No. Released 12 Mark	Groups; 12	727,796 Mark Group	0.32 s Recove	6,187 ered in Fish	3,358 ery	9,545	0.65
1999	A-2	Sawtooth Hatchery	SFH	Direct Release	CWT 10/46/34 <sup>c</sup>	9,701			12	8	20	0.60
1999	A-2	Sawtootii Hatchery	3111	Late Egg Progeny	CWT 10/46/43	9,701			21	7	28	0.75
				Late Lyg Frogeriy	CWT 10/46/43 CWT 10/46/44	9,343			22	9	31	0.73
					CWT 10/46/45	9,509			25	6	31	0.71
					CWT 10/46/45 CWT 10/46/46	9,309			12	8	20	0.60
					CWT 10/46/46 CWT 10/51/07°	9,008			11	6	20 17	0.65
					None	3,000	7,069		13	5	18	0.72
			SFH	Direct Release	CWT 10/51/09	9,495			10	5	15	0.67
			0	Early Egg Progeny	CWT 10/51/10	9,309			10	7	17	0.59
				,gg . rogony	CWT 10/51/10	20,133			16	10	26	0.62
					3111 10/00/01	20,100			10	10	20	0.02

Appendix D. Continued.

									Estima		Estimated No. of Fish	
Release Year	Stock and Ocean Age	Release Site	Stock Name <sup>a</sup>	Marking Purpose	Tags	No. of Fish Tagged	Released Untagged	Mark Rate	Harvest	Hatchery Returns <sup>b</sup>	Total	Exploitatio Rate
Fall 2001-	-Spring 2002	Season, continued.										
1999	A-2	Sawtooth Hatchery,	continued.		CWT 10/53/02	18,088			76	11	87	0.87
		camera material,			None	.0,000	1,127		2	1	3	0.67
			SFH	Acclimated	CWT 10/52/59 <sup>c</sup>	19,171			38	17	55	0.69
				Feed/Fast	CWT 10/52/60°	19,426			17	17	34	0.50
					CWT 10/52/63°	19,678			40	7	47	0.85
					None	,	2,013		3	1	4	0.75
			SFH	Acclimated	CWT 10/52/57°	18,973			32	15	47	0.68
				% Body Wt.Diet	CWT 10/52/58°	18,786			10	24	34	0.29
				•	CWT 10/52/61°	17,807			20	7	27	0.74
					None		372,500		416	303	719	0.58
		Subtotals	SFH	Direct Release	None	227,559	104,521 <b>487,230</b>		171	32	203	0.84
		Subtotals			No. Released	221,333	714.789	0.32	977	506	1.483	0.66
						Groups; 16	Mark Groups				1,400	0.00
	Sawtooth Hat	chery Subtotals				461,895	980,690					
					No. Released	Crauma: 20	1,442,585 Mark Groups	0.32	7,164	3,864	11,028	0.65
					20 Wark	Groups; 26	wark Groups	s Recove	erea in Fish	ery		
2000	A-1	Little Salmon River	HC	Contribution	None <sup>c</sup>		395,924		3,101	4,901	8,002	0.39
		Subtotals				0	395,924					
					No. Released 0 Mark Groups		395,924	0	3,101	4,901	8,002	0.39
1999	A-2	Little Salmon River	HC	Contribution	CWT 10/46/35	10,326			0	21	21	0
	· · -	2.000		00.11.1201.01.1	CWT 10/46/36	10,137			23	21	44	0.52
					CWT 10/46/37	10,003			67	21	88	0.76
					CWT 10/46/38	10,316			0	21	21	0
					None	. 5,5 . 6	378,254		835	781	1,616	0.52
		Subtotals				40,782	378,254				.,	0.0=
					No. Released	,	419,036	0.10	925	865	1,790	0.52
						oups; 2 Mar	k Groups Re		l in Fishery		.,	
						40 =00	774 470					
	Little Salmon	River Subtotals				40,782	774,178					
	Little Salmon	River Subtotals			No. Released	•	774,178 814,960 k Groups Re	0.05	4,026	5,766	9,792	0.41

An	nendix	D	Continu	ed

									Estima	ated No. of	Fish	
Release Year	Stock and Ocean Age	Release Site	Stock Name <sup>a</sup>	Marking Purpose	Tags	No. of Fish Tagged	n Released Untagged	Mark Rate	Harvest	Hatchery Returns <sup>b</sup>	Total	Exploitation Rate
Fall 2001	-Spring 2002	Season, continued.										
2000	A-1 Hazard Creel	Hazard Creek	HC	Supplementation	None	0	51,161 <b>51,161</b>		401	633	1,034	0.39
	nazaru Creei	Coubtotals			No. Released 0 Mark Groups	Ū	51,161	0	401	633	1,034	0.39
Relea		erman National Fish Ha Stock Releases)	tchery		No. Released	502,677	1,806,029 2,308,706	0.22	11,591	10,263	21,854	0.53
	(11	,				Groups; 30	Mark Group				,,,,,,,	0.00
				MAGIC VALLE	Y FISH HATCHER	Y RELEASE	s					
1999	A-2 Sawtooth Ha	Sawtooth Hatchery tchery Subtotals	PFH	Contribution	None	0	39,660 <b>39,660</b>		65	50	115	0.57
	Oawtootii iia	tenery Subtotals			No. Released 0 Mark Groups	v	39,660	0	65	50	115	0.57
1998	B-3	Slate Creek	EF	Contribution	CWT 10/21/46°	21,173			0	0	0	
					CWT 10/21/47 <sup>c</sup>	21,178			0	0	0	
					CWT 10/21/48	17,324			0	0	0	
	Slate Creek S	Subtotals			None	59,675	114,905 <b>114,905</b>		0	0	0	
					No. Released 3 Mark Gr	oups; 0 Mar	174,580 k Groups Re	0.34 ecovered	0 I in Fishery	0	0	
2000	B-1	Squaw Creek Ponds	DNFH	Production	None		106.135		15	2	17	0.88
	2.	Subtotals	2		No. Released	0	106,135 106,135	0	15	2	17	0.88
					0 Mark Groups		100,100	ŭ	10	-	••	0.00
1999	B-2	Squaw Creek Pond	DNFH	Volitional Release	None		78,244		88	8	96	0.92
		Subtotals		Release		0	78,244					
					No. Released 0 Mark Groups		78,244	0	88	8	96	0.92

Appendix D. Continued.

									Estima	ated No. of I	Fish	
Release Year	Stock and Ocean Age	Release Site	Stock Name <sup>a</sup>	Marking Purpose	Tags	No. of Fish Tagged	n Released Untagged	Mark Rate	Harvest	Hatchery Returns <sup>b</sup>	Total	Exploitation Rate
Fall 2001-	-Spring 2002	Season, continued.										
1998	B-3	Squaw Creek Pond	DNFH	Volitional Release	None <sup>c</sup>		52,800		0	0	0	
		Subtotals		Neledate	No. Released 0 Mark Groups	0	52,800 52,800	0	0	0	0	
	Squaw Creek	Pond Subtotals			No. Released	0	237,179 237,179	0	103	10	113	0.91
					0 Mark Groups		257,175	Ü	103	10	113	0.31
2000	B-1	Squaw Creek (upper)	DNFH	Contribution	CWT 10/54/13°	50,820			9	0	9	1.00
					CWT 10/46/47 <sup>c</sup>	10,523			0	0	0	
					BWT 10/00/00 <sup>d</sup>	347			0	1	1	0
					None		131,946		19	2	21	0.90
		Subtotals	EF	Production	None <sup>c</sup>	61,690			8	1	9	0.89
					No. Released		245,502	0.25	36	4	40	0.90
					3 Mark G	roups; 1 Ma	ark Group Re	ecovered	in Fishery			
1999	B-2	Squaw Creek (upper)	DNFH	Contribution	CWT 10/54/02°	58,514			79	1	80	0.99
					None		146,292		198	3	201	0.99
		Subtotals				58,514	146,292					
					No. Released		204,806	0.29	277	4	281	0.99
					1 Mark	Group; 1 Ma	ark Group Re	ecovered	in Fishery			
	Squaw Creek	Subtotals				120,204	330,104					
	Oquan Orcci	Cubiciais			No. Released	120,204	450,308	0.27	313	8	321	0.98
						oups; 2 Mar	k Groups Re				<b>02</b> .	0.00
1999	B-2	Squaw Cr. Pond below	EF&	Contribution	CWT 10/52/53	16,755			17	2	19	0.89
		Outlet	DNFH		CWT 10/52/54 <sup>c</sup>	17,683			6	0	6	1.00
					CWT 10/52/55	14,407			32	3	35	0.91
					None		58,164		65	6	71	0.92
	<b>Squaw Creek</b>	<b>Pond below Outlet Subt</b>	totals			48,845	58,164					
					No. Released		107,009	0.46	120	11	131	0.92
					3 Mark Gr	oups; 3 Mar	k Groups Re	ecovered	in Fishery			

Appendix D. Continued.

									Estima	ated No. of I	Fish	_
Release Year	Stock and Ocean Age	Release Site	Stock Name <sup>a</sup>	Marking Purpose	Tags		n Released Untagged	Mark Rate	Harvest	Hatchery Returns <sup>b</sup>	Total	Exploitation Rate
Fall 2001-	-Spring 2002	Season, continued.										
		East Fork Salmon River										
2000	B-1	at Dumpster	DNFH	Production	None		239,981		35	4	39	0.90
		Subtotals				0	239,981					
		Cabiotalo			No. Released 0 Mark Groups	·	239,981	0	35	4	39	0.90
		East Fork Salmon River										
1999	B-2	at Dumpster	DNFH	Contribution	CWT 10/54/03°	59,129			86	0	86	1.00
					None	,	209,796		305	0	305	1.00
		Subtotals				59,129						
					No. Released		268,925	0.22	391	0	391	1.00
					1 Mark	Group; 1 Ma	ark Group Re	ecovered	l in Fishery			
		East Fork Salmon River										
1998	B-3	at Dumpster	DNFH	Contribution	CWT 10/21/43°	20,367			0	0	0	
	2 0	at 2 ampoto.	2		CWT 10/21/44 <sup>c</sup>	20,932			0	Ö	Ö	
					CWT 10/21/45°	19,811			Ō	0	Ö	
					None	,	224,915		0	0	0	
			DNFH	Fin Erosion Study	None		35,700		0	0	0	
		Subtotals		- 10-0,		61,110	260,615					
					No. Released	•	321,725	0.19	0	0	0	
					3 Mark Gr	oups; 0 Mar	k Groups Re	ecovered	l in Fishery			
	Fast Fork Sal	Imon River at Dumpster S	Subtotals			120,239	710,392					
	Lust I olk ou	mon raver at Bumpoter v	Jubiciais		No. Released	120,200	830,631	0.14	426	4	430	0.99
						roups; 1 Ma	ark Group Re			-		
1998	B-3	East Fork Trap	EF	Contribution	CWT 10/47/05	21,372			0	0	0	
				50	CWT 10/17/06	21,088			Ő	Ö	Ö	
					CWT 10/47/07	20,781			0	0	0	
					None	-, -,	63,679		Ō	0	Ō	
	East Fork Tra	ap Subtotals				63,241	63,679					
					No. Released		126,920	0.50	0	0	0	
					3 Mark Gr	oups; 0 Mar	k Groups Re	ecovered	l in Fishery			

Appendix D. Continued.

									Estima	ated No. of	Fish	
Release Year	Stock and Ocean Age	Release Site	Stock Name <sup>a</sup>	Marking Purpose	Tags		n Released Untagged	Mark Rate	Harvest	Hatchery Returns <sup>b</sup>	Total	Exploitation Rate
Fall 2001-	-Spring 2002	Season, continued.										
2000	A-1	Salmon River at Tunnel Rock	SFH	Contribution	CWT 10/48/29° CWT 10/54/15°	11,153 50,300			112 380	138 623	250 1,003	0.45 0.38
		Subtotals			None	61,453	,		378	584	962	0.39
					No. Released 2 Mark Gr	oups; 2 Mar	108,673 k Groups Re	0.57 ecovered	870 in Fishery	1,345	2,215	0.39
1999	A-2	Salmon River at Tunnel	PFH	Contribution	CWT 10/54/04	60,661			110	125	235	0.47
		Rock Subtotals			None	60,661			124	142	266	0.47
					No. Released 1 Mark (	Group; 1 Ma	129,213 ark Group Re	0.47 ecovered	234 in Fishery	267	501	0.47
1999	B-2	Salmon River at Tunnel Rock	DNFH	Contribution	CWT 10/54/01 <sup>c</sup> None	53,680	24,454		59 27	0	59 30	1.00 0.90
		Subtotals			No. Released	53,680		0.69	86	3	89	0.97
						Group; 1 Ma	ark Group Re					0.01
	Salmon River	at Tunnel Rock Subtota	Is		No. Released	175,794	140,226 316,020	0.56	1,190	1,615	2,805	0.42
						oups; 4 Mar	k Groups Re				_,000	V
2000	A-1	Salmon River at Challis	SFH	Production	None		24,491		131	303	434	0.30
	Salman Biyar	at Challis Subtotals	PFH	Production	None	0	21,250 <b>45,741</b>		131	263	394	0.33
	Saimon River	at Chains Subtotals			No. Released 0 Mark Groups	U	45,741 45,741	0	262	566	828	0.32
2000	A-1	Salmon River at McNabbs Point	SFH	Production	None		105,578		651	1,307	1,958	0.33
		Subtotals			No. Released	0	105,578 105,578	0	651	1,307	1,958	0.33
					0 Mark Groups							
1999	A-2	Salmon River at McNabbs Point	PFH	Contribution	None		121,210		220	250	470	0.47
		Subtotals			No. Released 0 Mark Groups	0	121,210 121,210	0	220	250	470	0.47

Appendix D. Continued.

									Estima	ated No. of	Fish	
Release Year	Stock and Ocean Age	Release Site	Stock Name <sup>a</sup>	Marking Purpose	Tags		n Released Untagged	Mark Rate	Harvest	Hatchery Returns <sup>b</sup>	Total	Exploitation Rate
Fall 2001	-Spring 2002	Season, continued.										
	Salmon River	r at McNabbs Point Subto	tals		No. Released 0 Mark Groups	0	226,788 226,788	0	871	1,557	2,428	0.36
2000	A-1	Salmon River at	SFH	Production	None		45,753		282	566	848	0.33
		Cottonwood Campground	PFH	Production	None	•	36,419		225	451	676	0.33
		Subtotals			No. Released 0 Mark Groups	0	82,172 82,172	0	507	1,017	1,524	0.33
1999	A-2	Salmon River at	PFH	Contribution	None		85,980		124	177	301	0.41
		Cottonwood Campground Subtotals			No. Released 0 Mark Groups	0	85,980 85,980	0	124	177	301	0.41
	Salmon Rive	r at Cottonwood Campgro	und Subto	tals	No. Released 0 Mark Groups	0	168,152 168,152	0	631	1,194	1,825	0.35
2000	A-1	Salmon River at Colston	SFH	Production	None		11,533		85	143	228	0.37
	Outro Division	Corner	PFH	Production	None	•	9,092		67	113	180	0.37
	Salmon Rive	r at Colston Corner Subto	tais		No. Released 0 Mark Groups	0	20,625 20,625	0	152	256	408	0.37
2000	A-1	Salmon River at Kilpatrick r at Kilpatrick Subtotals	SFH	Production	None	0	21,500 <b>21,500</b>		159	266	425	0.37
	Saimon River	at Kiipatiick Subtotais			No. Released 0 Mark Groups	Ū	21,500	0	159	266	425	0.37
2000	A-1	Salmon River at Eyehole	SFH	Production	None		21,500		159	266	425	0.37
	Salmon Rive	r at Eyehole Subtotals			No. Released 0 Mark Groups	0	21,500 21,500	0	159	266	425	0.37

									Estima	ated No. of	Fish	
Release Year	Stock and Ocean Age	Release Site	Stock Name <sup>a</sup>	Marking Purpose	Tags	No. of Fish Tagged		Mark Rate	Harvest	Hatchery Returns <sup>b</sup>	Total	Exploitation Rate
Fall 2001-	-Spring 2002	Season, continued.										
2000	A-1	Salmon River at Shoup Bridge	PFH	Contribution	CWT 10/46/48° CWT 10/54/14°	7,663 46,866			48 313	95 580	143 893	0.34 0.35
		Subtotals			None	54,529	13,399 <b>13,399</b>		99	166	265	0.37
					No. Released 2 Mark Gr	oups; 2 Marl	67,928	0.80 ecovered	460 in Fishery	841	1,301	0.35
1999	A-2	Salmon River at Shoup Bridge	PFH	Contribution	CWT 10/54/05° None	60,453	71,967		148 176	125 149	273 325	0.54 0.54
		Subtotals			No. Released	60,453	71,967 132,420	0.46	324	274	598	0.54
					1 Mark	Group; 1 Ma	-	covered	in Fishery			
	Salmon River	r at Shoup Bridge Subtot	als		No. Released 3 Mark Gr	114,982 oups; 3 Marl	85,366 200,348 Groups Re	0.57	784	1,115	1,899	0.41
2000	A-1	Lemhi River	PFH	Contribution	CWT 10/36/06 <sup>c</sup> None	62,081	51,286		500 379	768 635	1,268 1,014	0.39 0.37
	Lemhi River	Subtotals	SFH	Production	None	62,081	24,040 <b>75,326</b>		178	298	476	0.37
					No. Released 1 Mark	Group; 1 Ma	137,407	0.45 covered	1,057 in Fishery	1,701	2,758	0.38
1999	A-2	Salmon River at Lemhi	PFH	Contribution	None <sup>c</sup>	0	157,865		386	326	712	0.54
	Salmon Rive	River r at Lemhi River Subtotal	s		No. Released 0 Mark Groups	0	157,865 157,865	0	386	326	712	0.54
2000	A-1	Salmon River at Red Rock	PFH	Contribution	None	0	62,670		463	776	1,239	0.37
		Subtotals			No. Released 0 Mark Groups	0	62,670 62,670	0	463	776	1,239	0.37

Appendix D. Continued.

									Estima	ated No. of I	Fish	
Release Year	Stock and Ocean Age	Release Site	Stock Name <sup>a</sup>	Marking Purpose	Tags	No. of Fish Tagged	Released Untagged	Mark Rate	Harvest	Hatchery Returns <sup>b</sup>	Total	Exploitation Rate
Fall 2001-	-Spring 2002 S	Season, continued.										
		Salmon River at Red										
1999	A-2	Rock	PFH	Contribution	CWT 10/54/06	60,343			146	125	271	0.54
					None		111,421		270	230	500	0.54
		Subtotals			No. Released	60,343	111,421 171,764	0.35	416	355	771	0.54
						Group; 1 Ma				000		0.04
	Salmon River	at Red Rock Subtotals				60,343	174,091					
					No. Released	,	234,434	0.26	879	1,131	2,010	0.44
					1 Mark	Group; 1 Ma	rk Group Re	ecovered	in Fishery			
2000	A-1	Salmon River at Wagonhammer	SFH	Production	None		1,845		14	23	37	0.38
		· ·	PFH	Production	None	_	39,246		290	486	776	0.37
	Salmon River	at Wagonhammer Subto	otals		No. Released	0	41,091 41,091	0	304	509	813	0.37
					0 Mark Groups		41,001	·	004	000	010	0.01
2000	A-1	Salmon River at Lewis & Clark Sign (North Fork)	PFH	Contribution	None		61,732		456	764	1,220	0.37
	Salmon River	at Lewis and Clark Sign	Subtotals			0	61,732					
		•			No. Released 0 Mark Groups		61,732	0	456	764	1,220	0.37
2000	A-1	Little Salmon River at	НС	Contribution	None		115,423		904	1,429	2,333	0.39
		Stinky Springs Subtotals				0	115,423					
		Gustotais			No. Released 0 Mark Groups	·	115,423	0	904	1,429	2,333	0.39
1999	A-2	Little Salmon River Subtotals	PFH	Contribution	None	0	41,620 <b>41,620</b>		0	86	86	0
		Gustotais			No. Released 0 Mark Groups	v	41,620	0	0	86	86	0
2000	B-1	Little Salmon River at	DNFH	Contribution	CWT 10/36/05°	63,244			0	1	1	0
		Stinky Springs			None	•	232,640		0	4	4	0
					BWT 10/00/00		4,639		0	0	0	
		Subtotals			No Delegand	63,244	237,279	0.04	^	-	_	^
					No. Released	Groups; 0 l	300,523	0.21	0 rod in Fish	5	5	0

Appendix D. Continued.

									Estima	ated No. of	Fish	_
Release Year	Stock and Ocean Age	Release Site	Stock Name <sup>a</sup>	Marking Purpose	Tags		n Released Untagged	Mark Rate	Harvest	Hatchery Returns <sup>b</sup>	Total	Exploitation Rate
Fall 2001-	-Spring 2002	Season, continued.										
1999	B-2	Little Salmon River at	DNFH	Contribution	CWT 10/52/56	16,416			15	1	16	0.94
.000	2 -	Stinky Springs Subtotals	2		None	16,416	308,139		282	11	293	0.96
					No. Released	-,	324,555	0.05	297	12	309	0.96
					1 Mark G	roup; 1 Mar	rk Groups Re	ecovered	in Fishery			
1998	B-3	Little Salmon River at	DNFH	Contribution	CWT 10/21/31°	21,428			0	0	0	
		Stinky Springs			CWT 10/21/32 <sup>c</sup>	20,983			0	0	0	
					CWT 10/21/33 <sup>c</sup>	20,212			0	0	0	
		Subtotals			None <sup>c</sup>	62,623	218,327 <b>218,327</b>		0	0	0	
		Gubtotalo			No. Released	02,020	280,950	0.22	0	0	0	
					3 Mark Gr	oups; 0 Mar	k Groups Re	ecovered	in Fishery			
	Little Salmon	River at Stinky Springs	Subtotals			142,283						
					No. Released 6 Mark G	roups: 1 Ma	1,063,071 ark Group Re	0.13 ecovered	1,201 in Fishery	1,532	2,733	0.44
					•	. Саро, т						
2000	B-1	South Fork Clearwater River at Mill Creek	DNFH	Production	None <sup>e</sup>		19,556		No E	stimates Ma	de	
	South Fork C	learwater River at Mill C	reek Subto	tals		0	19,556					
					No. Released 0 Mark Groups		19,556				-	
2000	B-1	South Fork Clearwater River at Meadow Creek	DNFH	Supplementation; Late Eggs	None <sup>e</sup>		19,557		No E	stimates Ma	de	
	South Fork C	learwater River at Meado	ow Creek S			0	19,557					
					No. Released 0 Mark Groups	·	19,557					
2000	B-1	Red River	DNFH	Supplementation;	None <sup>e</sup>		30,480		No E	stimates Ma	de	
	Red River Su	htotolo		Late Eggs		0	20 400					
	Red River Su	Diotals			No. Released 0 Mark Groups	U	30,480 30,480					
2000	B-1	American River	DNFH	Supplementation;	None <sup>c,e</sup>		96,187		No E	stimates Ma	de	
	American Riv	ver Subtotals		Late Eggs	No. Released 0 Mark Groups	0	96,187 96,187					

<u> </u>	D. Continuca.								Estima	ated No. of	Fish	_
Release Year	Stock and Ocean Age	Release Site	Stock Name <sup>a</sup>	Marking Purpose	Tags		n Released Untagged	Mark Rate	Harvest	Hatchery Returns <sup>b</sup>	Total	Exploitation Rate
Fall 2001-	-Spring 2002	Season, continued.										
2000	B-1	Newsome Creek	DNFH	Supplementation; Late Eggs	None <sup>c,e</sup>		100,078		No E	stimates Ma	de	
	Newsome Cr	eek Subtotals		Late Lygs	No. Released 0 Mark Groups	0	100,078 100,078					
Releases	from Magic V	alley Fish Hatchery										
		"A" Stock Releases (with adipose fin clips)			No. Released 8 Mark		1,412,252 1,771,772 Mark Groups	0.20 Recove	8,173 red in Fishe	12,828 ery	21,001	0.39
		"B" Stock Releases (with adipose fin clips)			No. Released 24 Mark		2,302,622 2,910,789 Mark Groups	0.21 Recove	1,345 ered in Fish	53 ery	1,398	0.96
	All Rele	eases with Adipose Fin C	lips	No. Released	32 Mark	•	3,714,874 4,682,561 Mark Group	0.21 s Recov	9,518 ered in Fish	12,881 ery	22,399	0.42
	Release	es without Adipose Fin C	lips		No. Released 0 Mark Groups	0	265,858 265,858					
				CLEARWATER	R FISH HATCHERY	RELEASES	S					
2000	B-1	Red River Rearing Ponds	s DNFH	Nez Perce Tribe	None <sup>c,e</sup>		139,662		No E	stimates Ma	de	
	Red River Re	aring Ponds Subtotals		Release	No. Released 0 Mark Groups	0	139,662 139,662					
1999	B-2	Red River at Soda Creek	DNFH	Supplementation	None <sup>c,e</sup>		4,993		No E	stimates Ma	de	
		Bridge Subtotals			No. Released 0 Mark Groups	0	4,993 4,993		-			

Appendix D. Continued.

	D. Continucu.								Estima	ated No. of	Fish	
Release Year	Stock and Ocean Age	Release Site	Stock Name <sup>a</sup>	Marking Purpose	Tags		n Released Untagged	Mark Rate	Harvest	Hatchery Returns <sup>b</sup>	Total	Exploitation Rate
Fall 2001-	-Spring 2002	Season, continued.										
1998	B-3	Red River	DNFH	Supplementation	None <sup>c,e</sup>	0	4,497		No E	stimates Ma	de	
		Subtotals			No. Released 0 Mark Groups	U	4,497 4,497					
	Red River Su	btotals				0	149,152					
					No. Released 0 Mark Groups		149,152					
2000	B-1	South Fork Clearwater	DNFH	Contribution	CWT 10/54/26°	32,101			30	34	64	0.47
		River at Red House Hole			CWT 10/54/08 <sup>c</sup> None	31,196	248,119		11 161	33 264	44 425	0.25 0.38
		Subtotals			No. Released	63,297	248,119 311,416	0.20	202	331	533	0.38
						oups; 2 Mar	k Groups Re			331	533	0.30
1999	B-2	South Fork Clearwater	DNFH	Contribution	CWT 10/52/35	20,763			67	110	177	0.38
		River at Red House Hole			CWT 10/52/36° CWT 10/52/37	21,200 20,645			112 58	113 110	225 168	0.50 0.35
		• • • • •			None		337,858		1,279	1,798	3,077	0.42
		Subtotals			No. Released	62,608	337,858 400,466	0.16	1.516	2,131	3,647	0.42
						oups; 3 Mar	k Groups R				3,047	0.42
1998	B-3	South Fork Clearwater	DNFH	Contribution	CWT 10/47/38 <sup>c</sup>	21,859			14	4	18	0.78
		River			CWT 10/47/39 <sup>c</sup> CWT 10/47/40 <sup>c</sup>	21,079 21,093			0 14	4 4	4	0 0.78
					None	21,093	468,274		205	88	18 293	0.76
		Subtotals				64,031	468,274					
					No. Released 3 Mark G	oups; 2Mar	532,305 k Groups Re	0.12 ecovered	233 I in Fishery	100	333	0.70
	South Fo	rk Clearwater River Subto	ntale			189 936	1,054,251					
	oodii i o	TR Oleai Water 141ver Oubt	, tais		No. Released	·	1,244,187	0.15	1,951	2,562	4,513	0.43
					ช Mark Gr	oups; 7 Mar	k Groups Re	ecovered	ı ın Fıshery			
2000	B-1	Clear Creek	DNFH	Contribution	CWT 10/54/19 <sup>c</sup>	43,375			6	7	13	0.46
		Cubtatala			None	40 075	140,482 <b>140,482</b>		19	23	42	0.45
		Subtotals			No. Released	43,375	140,482 183,857	0.24	25	30	55	0.45
						roups; 1 Ma	ark Group Re					

	D. Continucu.								Estima	ated No. of	Fish	-
Release Year	Stock and Ocean Age	Release Site	Stock Name <sup>a</sup>	Marking Purpose	Tags		n Released Untagged	Mark Rate	Harvest	Hatchery Returns <sup>b</sup>	Total	Exploitation Rate
Fall 2001-	-Spring 2002	Season, continued.										
1999	B-2	Clear Creek	DNFH	Moore/Clark Diet (Feed Exp.)	CWT 10/52/33° None	20,668	110,901		70 376	24 129	94 505	0.74 0.74
			DNFH	Bio-Diet Feed (Feed Exp.)	CWT 10/52/34 <sup>c</sup> None	20,322	38,648		0	15 29	15 29	0 0
		Subtotals		, , ,	No. Released	40,990	190,539	0.22	446	197	643	0.69
					2 Mark G	iroups; 1 Ma	ark Group Re	ecovered	in Fishery			
1998	B-3	Clear Creek	DNFH	Contribution	CWT 10/52/25° None	20,851	144,633		0 0	0 0	0	
		Subtotals			No. Released	20,851	144,633 165,484 ark Group Re	0.13	0 Lin Eighon	0	0	
					Tiviark			ecovereu	ı ili Fishery			
	Clear Creek S	Subtotals			No. Released	105,216	434,664 539,880 k Groups Re	0.19	471 In Fishery	227	698	0.67
0000	<b>5</b> .4	0 1 10: 0 1	DAIFU	N 5 T''		oups, 2 mai		20010100				
2000	B-1	Crooked River Ponds	DNFH	Nez Perce Tribe Release	None <sup>c,e</sup>		100,331		No E	stimates Ma	ide	
	Crooked Rive	er Subtotals			No. Released 0 Mark Groups	0	100,331 100,331					
Relea	ses from Clea	rwater Fish Hatchery										
		"B" Stock Releases (with adipose fin clips)			No. Released 12 Mark Gr	,	1,488,915 1,784,067 k Groups Re	0.17 ecovered	2,422 in Fishery	2,789	5,211	0.46
	Release	es without Adipose Fin C	lips		No. Released	0	249,483					
Total Ret	urns for Run \	/ear 2000-2001			0 Mark Groups		249,483			<b></b>	-	
		Releases with Adipose	Fin Clips			1,765,516	7,009,818					
					No. Released 76 Mark Gro	ups; 55 Mar	8,775,334 k Groups Re	0.20 ecovered	23,531 in Fishery	25,933	49,463	0.48
	Re	eleases without Adipose	Fin Clips		No. Released 0 Mark Groups	0	515,341 515,341					

Appendix D. Continued.

									Estima	ated No. of I	Fish	
Release Year	Stock and Ocean Age	Release Site	Stock Name <sup>a</sup>	Marking Purpose	Tags	No. of Fish Tagged l		Mark Rate	Harvest	Hatchery Returns <sup>b</sup>	Total	Exploitation Rate
Fall 2002-	-Spring 2003	<u>Season</u>										
				HAGERMAN NATIO	ONAL FISH HATCH	HERY RELEA	SES					
2001	A-1	Sawtooth Hatchery	SFH	Acclimated;	CWT 10/48/03	20,236			15	22	37	0.41
				Production	CWT 10/48/05	18,445			0	3	3	0
					CWT 10/48/06	20,278			202	15	217	0.93
					None		512,185		1,885	1,216	3,101	0.61
			SFH	Production; Direct Release	None		136,690		503	325	828	0.61
		Subtotals				58,959						
					No. Released		707,834		2,605	1,581	4,186	0.62
					3 Mark G	roups; 2 Mar	rk Groups R	ecovere	d in Fisher	У		
2000	A-2	Sawtooth Hatchery	SFH	Early Egg Take;	CWT 10/55/16	17,726			73	11	84	0.87
		,		Direct Release	CWT 10/55/17	20,187			44	18	62	0.71
					CWT 10/55/18°	19,670			98	20	118	0.83
					None		1,605°		6	3	9	0.67
			SFH	Acclimation;	CWT 10/55/19 <sup>c</sup>	19,441			21	14	35	0.60
			<b>.</b>	% Body Weight	CWT 10/55/20°	19,999			23	12	35	0.66
				Diet	CWT 10/55/22 <sup>c</sup>	19,563			42	9	51	0.82
					None		486,823		710	658	1,368	0.52
			SFH	Acclimation;	CWT 10/55/21°	19,312			24	23	47	0.51
			<b>.</b>	Feed/Fast	CWT 10/55/23°	18,153			60	17	77	0.78
					CWT 10/55/24 <sup>c</sup>	20,170			19	10	29	0.66
					None		4,193		7	8	15	0.47
			SFH	Late Egg Take;	CWT 10/55/25°	20,757			41	15	56	0.73
			<b>.</b>	Direct Release	CWT 10/55/26	19,549			34	11	45	0.76
					CWT 10/55/27	19,809			15	19	34	0.44
					None	•	839		1	1	2	0.50
		Subtotals				234,336	493,460					
					No. Released		727,796	0.32	1,218	849	2,067	0.59
					12 Mark	Groups; 12 I	Mark Group	s Recov	ered in Fis	hery		
	Sawtooth Ha	tchery Subtotals				293,295	1,142,335					
					No. Released	_55,_56	1,435,630	0.20	3,823	2,430	6,253	0.61
					15 Mark	Groups; 14 I	, ,	s Recov	,		,	

									Estima	ated No. of I	Fish	
Release Year	Stock and Ocean Age	Release Site	Stock Name <sup>a</sup>	Marking Purpose	Tags		n Released Untagged	Mark Rate	Harvest	Hatchery Returns <sup>b</sup>	Total	Exploitation Rate
Fall 2002	-Spring 2003 S	Season, continued.										
2001	A-1	Yankee Fork Salmon River dredge ponds	SFH	Supplementation	None <sup>e</sup>		137,656		No	Estimates M	ade	
	Yankee Fork	Salmon River dredge po	nd Subtota	Is	No. Released 0 Mark Groups		0 137,656 137,656					
2001	A-1 Little Salmon	Little Salmon River at Stinky Springs River Supplementation	PFH Subtotals	Supplementation	CWT 10/48/04 <sup>e</sup> None <sup>e</sup>	17,58 <b>17,58</b>	139,031			Estimates M Estimates M		
					1 Mark	Group; 0 Ma	ark Groups R	ecovere	d in Fisher	у		
2000	A-2 Little Salmon	Little Salmon River River Subtotals	НС	Contribution	None <sup>c</sup>		395,924 <b>0 395,924</b>		2,926	658	3,584	0.82
					No. Released 0 Mark Groups		395,924	0	2,926	658	3,584	0.82
2001	A-1 Hazard Creek	Hazard Creek  (not adipose fin clipped	PFH I) Subtotals	Supplementation	None <sup>e</sup>		50,557 <b>0 50,557</b>		No	Estimates M	ade	
			,		No. Released 0 Mark Groups		50,557			-		
2000	A-2 Hazard Creek	Hazard Creek	НС	Supplementation	None		0 51,161 0 <b>51,161</b>	0	378	85	463	0.82
	1142414 01001				No. Released 0 Mark Groups		51,161	0	378	85	463	0.82
2001	B-1 Newsome Cre	Newsome Creek	DNFH	Supplementation	None <sup>e</sup>		86,441 <b>0 86,441</b>		No	Estimates M	ade	
	Newsome Cre	eek Subtotais			No. Released 0 Mark Groups		86,441					
2001	B-1 American Riv	American River	DNFH	Supplementation	None <sup>e</sup>		90,188 <b>0 90,188</b>		No	Estimates M	ade	
	American Kiv	oi Gubiolais			No. Released 0 Mark Groups		90,188					

	<b>.</b>		<b>-</b>						Estima	ted No. of I	Fish	
Release Year	Stock and Ocean Age	Release Site	Stock Name <sup>a</sup>	Marking Purpose	Tags	No. of Fish Tagged	Released Untagged	Mark Rate	Harvest	Hatchery Returns <sup>b</sup>	Total	Exploitation Rate
Fall 2002-	-Spring 2003	Season, continued.										
Relea	ses from Ha	german National Fish Ha	tchery									
		("A" Stock Releases) (with adipose fin clips)			No. Released 15 Mark Gr	293,295 oups; 14 Ma	5 1,589,420 1,882,715 irk Groups F	0.16	7,127 d in Fishery	3,173	10,300	0.69
		es without Adipose Fin ( "A" and "B" Stock Relea			No. Released 1 Mark G	17,58 <sup>4</sup> roups; 0 Ma	521,454		 d in Fishery			
				MAGIC VALLE	Y FISH HATCHER	Y RELEASE	S					
2001	B-1 Sawtooth Ha	Sawtooth Hatchery atchery Subtotals	DNFH	Production	None	(	1,145 <b>1,145</b>		0	0	0	-
					No. Released 0 Mark Groups		1,145	0	0	0	0	
2001	A-1	Yankee Fork Salmon River at 3rd bridge up	SFH	Production	None <sup>c</sup>	,	98,623		363	234	597	0.61
	Yankee Fork	Salmon River Subtotals			No. Released 0 Mark Groups	(	98,623 98,623		363	234	597	0.61
2001	B-1	Squaw Creek pond Subtotals	DNFH	Production	None	(	75,912 <b>75,912</b>		20	0	20	1.00
					No. Released 0 Mark Groups		75,912	0	20	0	20	1.00
2000	B-2	Squaw Creek Ponds Subtotals	DNFH	Production	None	(	106,135 <b>106,135</b>		377	5	382	0.99
					No. Released 0 Mark Groups		106,135	0	377	5	382	0.99
1999	B-3	Squaw Creek Pond Subtotals	DNFH	Volitional Release	None	(	78,244 <b>78,244</b>		0	0	0	
					No. Released 0 Mark Groups		78,244		0	0	0	
	Squaw Cree	k Pond Subtotals			No. Released 0 Mark Groups	(	260,291 260,291		397	5	402	0.99

Appendix D. Continued.

									Estima	ated No. of I	Fish	_
Release Year	Stock and Ocean Age	Release Site	Stock Name <sup>a</sup>	Marking Purpose	Tags	No. of Fish F Tagged U		Mark Rate	Harvest	Hatchery Returns <sup>b</sup>	Total	Exploitation Rate
Fall 2002-	-Spring 2003	Season, continued.										
2001	B-1	Squaw Creek (upper)	EF <sup>a</sup>	Production	CWT 10/48/15°	19,332			112	9	121	0.93
2001	D- I	Squaw Creek (upper)	EF	Production	CWT 10/48/16°	17,551			70	8	78	0.93
					None	17,551	1,141		70 6	o 1	76 7	0.90
					None		1,141		0	'	,	0.00
			DNFH	Production	BWT 10/00/00	8,164			0	0	0	
			DNFH	Production	CWT 10/48/21 <sup>c</sup>	18,730			12	0	12	1.00
					CWT 10/48/22 <sup>c</sup>	17,810			0	0	0	
					None	,	85,733		23	0	23	1.00
		Subtotals				81,587	86,874					
		Castotaio			No. Released	0.,00.	168,461	0.48	223	18	241	0.93
						Groups; 3 Mai						0.00
					• mark	oroupo, o ma	Group			,		
2000	B-2	Squaw Creek (upper)	DNFH	Contribution	CWT 10/54/13 <sup>c</sup>	50.820			155	0	155	1.00
		(-1-1-)			CWT 10/46/47 <sup>c</sup>	10,523			63	0	63	1.00
					BWT 10/00/00	347			1	0	1	1.00
					None	· · · ·	131,946		469	6	475	0.14
				<b>5</b>						_		
2000	B-2	Squaw Creek (upper), continued.	EF	Production	None <sup>c</sup>		51,866		184	2	186	0.99
		Subtotals				61,690	183,812					
					No. Released	•	245.502	0.2	5 872	8	480	0.98
					3 Mark	Groups; 2 Ma	rk Group R	Recovered	d in Fisher	у		
1999	B-3	Squaw Creek (upper)	DNFH	Contribution	CWT 10/54/02 <sup>c</sup>	58,514			0	0	0	
1000	50	equal crock (appor)	5.4.11	Contribution	None	00,011	146,292		0	Ö	ő	
		Subtotals			140110	58,514	146,292		Ü	Ū	Ū	
		Gubtotals			No. Released	30,314	204,806		9 0	0	0	
						Group; 0 Ma					·	
	0	0				004 704	440.070					
	Squaw Creek	Subtotals			No Bolomod	201,791	416,978			00	4 404	0.00
					No. Released		618,769	0.3	. ,	26	1,121	0.98
					9 Mark G	roups; 5 Mark	( Groups R	ecovered	in Fisher	У		
1000	D 0	Course Co Decided	FF.	Comballerediere	OMT 40/50/50	40 755			^	^	^	
1999	B-3	Squaw Cr. Pond below	EF&	Contribution	CWT 10/52/53	16,755			0	0	0	
		Outlet	DNFH		CWT 10/52/54 <sup>c</sup>	17,683			0	0	0	
					CWT 10/52/55	14,407			0	0	0	
					None		58,164		0	0	0	
	Squaw Creek	Pond below Outlets Su	btotals			48,845	58,164					
					No. Released		107,009	0.4		0	0	
					3 Mark G	roups; 0 Mark	Groups R	Recovered	d in Fisher	У		

Appendix D. Continued.

									Estima	ated No. of	Fish	
Release Year	Stock and Ocean Age	Release Site	Stock Name <sup>a</sup>	Marking Purpose	Tags		h Released Untagged	Mark Rate	Harvest	Hatchery Returns <sup>b</sup>	Total	Exploitation Rate
Fall 2002-	-Spring 2003	Season, continued.										
		East Fork Salmon River										
2001	B-1	at Dumpster Subtotals	DNFH	Production	None		51,810 <b>0 51,810</b>		14	2	16	0.88
					No. Released 0 Mark Groups		51,810	0	14	2	16	0.88
2000	D 0	East Fork Salmon River	DNELL	Deadwalian	Nama		220 004		0.50	44	004	0.00
2000	B-2	at Dumpster Subtotals	DNFH	Production	None		239,981 <b>0</b> 239,981		853	11	864	0.99
		20.000			No. Released 0 Mark Groups		239,981	0	853	11	864	0.99
		East Fork Salmon River										
1999	B-3	at Dumpster	DNFH	Contribution	CWT 10/54/03°	59,12			4	0	4	1.00
		0			None	FO 40	209,796		14	0	14	1.00
		Subtotals			No. Released	59,12	29 209,796 268.925	0.2	22 18	0	18	1.00
						Group; 1 M	266,925 Mark Group R				10	1.00
	Fast Fork Sal	Imon River at Dumpster S	ubtotals			59,12	29 501.587					
	Luoti oin ou	mon ravor at Bampotor o	abtotato		No. Released	00,12	560,716	0.11	885	13	898	0.99
					1 Mark	Group; 1 N	Mark Group R	ecovere	d in Fisher	У		
2001	A-1	Salmon River at Tunnel	SFH	Production	CWT 10/48/18 <sup>c</sup>	21,48	36		205	109	314	0.65
		Rock			CWT 10/48/19°	21,06			48	107	155	0.31
					CWT 10/48/20°	20,77			32	105	137	0.23
					None		1,958		9	10	19	0.47
		Subtotals			No Bolomod	63,32	,	0.07	004	004		0.47
					No. Released 3 Mark G	roups; 3 M	65,280 ark Groups R	0.97 ecovere	294 d in Fisher	331 V	625	0.47
						•	•			•		
2000	A-2	Salmon River at Tunnel	SFH	Contribution	CWT 10/48/29°	11,15			14	0	14	1.00
		Rock			CWT 10/54/15°	50,30			30	2	32	0.94
		Subtotals			None	61,45	47,220 <b>47,220</b>		87	78	165	0.53
		ountotalo			No. Released	0.,.0	108,673	0.5	57 131	80	211	0.62
					2 Mark G	roups; 2 M	ark Groups R	ecovere	d in Fisher	у		
1999	B-3	Salmon River at Tunnel	DNFH	Contribution	CWT 10/54/01°	53,68	30		0	0	0	
		Rock			None	,	24,454		0	0	0	
		Subtotals			No Delegged	53,68	,	0.00	•	•	•	
					No. Released	Group: 0 M	78,134 ark Groups R	0.69	0 Id in Fisher	0	0	
					ı Wark	Group, v W	air Gioups R	ecovere	u iii risiier	у		

	D. Continued.		_				_		Estima	ated No. of I	Fish	
Release Year	Stock and Ocean Age	Release Site	Stock Name <sup>a</sup>	Marking Purpose	Tags	No. of Fish I Tagged U		Mark Rate	Harvest	Hatchery Returns <sup>b</sup>	Total	Exploitation Rate
Fall 2002	-Spring 2003	Season, continued.										
	Salmon Rive	r at Tunnel Rock Subtota	ls		No. Released	178,455	252,087	0.71	425	411	836	0.51
					6 Mark G	iroups; 5 Mar	k Groups R	ecovere	d in Fisher	у		
2001	A-1	Salmon River at Challis <b>Subtotals</b>	SFH	Production	None	0	,		188	212	400	0.47
					No. Released 0 Mark Groups		41,850	0	188	212	400	0.47
2000	A-2	Salmon River at Challis	SFH	Production	None		24,491		45	41	86	0.52
		Subtotals	PFH	Production	None	0	21,250 <b>45,741</b>		39	35	74	0.53
					No. Released 0 Mark Groups		45,̈741	0	84	76	160	0.53
	Salmon Rive	r at Challis Subtotals			No. Released 0 Mark Groups	0	87,591 87,591	0	272	288	560	0.49
		Salmon River a	ıt		o man or oupo							
2001	A-1	McNabbs Point	SFH	Production	None		84,389		380	427	807	0.47
		Subtotals			No. Released 0 Mark Groups	0	84,389 84,389	0	380	427	807	0.47
2000	A-2	Salmon River a McNabbs	t SFH	Production	None		105,578		194	175	369	0.53
		Point Subtotals			No. Released 0 Mark Groups	0	105,578 105,578		194	175	369	0.53
	Salmon Rive	r at McNabbs Point Subto	otals		No. Released 0 Mark Groups	0	189,967 189,967	0	574	602	1,176	0.49
2001	A-1	Salmon River at	SFH	Production	None		77,790		350	394	744	0.47
		Cottonwood Campground Subtotals	d		No. Released 0 Mark Groups	0	77,790 77,790	0	350	394	744	0.47

Appendix D. Continued.

									Estima	ated No. of I		
Release Year	Stock and Ocean Age	Release Site	Stock Name <sup>a</sup>	Marking Purpose	Tags	No. of Fisi Tagged	h Released Untagged	Mark Rate	Harvest	Hatchery Returns <sup>b</sup>	Total	Exploitation Rate
Fall 2002-	-Spring 2003 S	Season, continued.										
2000	A-2	Salmon River at Cottonwood Campground	SFH	Production	None		45,753		84	76	160	0.53
		Subtotals	PFH	Production	None		36,419 <b>0 82,172</b>		67	61	128	0.52
					No. Released 0 Mark Groups		82,172	0	151	137	288	0.52
	Salmon River	at Cottonwood Campgro	und Subtot	als	No. Released 0 Mark Groups		0 159,962 159,962	0	501	531	1,032	0.49
2001	A-1	Salmon River at Colston Corner	PFH	Production	None		50,300		156	255	411	0.38
		Subtotals			No. Released 0 Mark Groups		0 50,300 50,300	0	156	255	411	0.38
2000	A-2	Salmon River at Colston Corner	SFH	Production	None		11,533		10	19	29	0.34
		Subtotals	PFH	Production	None		9,092 <b>0 20,625</b>		8	15	23	0.35
					No. Released 0 Mark Groups		20,625	0	18	34	52	0.35
	Salmon River	at Colston Corner Subto	tals		No. Released 0 Mark Groups		0 70,925 70,925	0	174	289	463	0.38
2000	A-2	Salmon River at Kilpatrick at Kilpatrick Subtotals	SFH	Production	None		21,500 <b>0 21,500</b>		18	36	53	0.34
	Samon River	at Kilpatrick Subtotals			No. Released 0 Mark Groups		21,500	0	18	36	53	0.34
2001	A-1	Salmon River at Eyehole Subtotals	SFH	Production	None		45,270 <b>0 45,270</b>		140	229	369	0.38
		Gustatale			No. Released 0 Mark Groups		45,270	0	140	229	369	0.38
2000	A-2	Salmon River at Eyehole Subtotals	SFH	Production	None		21,500 <b>0 21,500</b>		18	36	54	0.34
					No. Released 0 Mark Groups		21,500	0	18	36	54	0.34

									Estima	ated No. of I	Fish	
Release Year	Stock and Ocean Age	Release Site	Stock Name <sup>a</sup>	Marking Purpose	Tags	No. of Fish Tagged	Released Untagged	Mark Rate	Harvest	Hatchery Returns <sup>b</sup>	Total	Exploitation Rate
Fall 2002-	-Spring 2003	Season, continued.										
	Salmon Rive	r at Eyehole Subtotals					0 66,770					
					No. Released 0 Mark Groups		66,770	0	158	265	422	0.37
2001	A-1	Salmon River at Shoup	SFH	Production	CWT 10/48/35°	32,000	6		99	162	261	0.38
		Bridge Subtotals			None	32,00	28,986		90	147	237	0.38
		0.000			No. Released	,	60,992	0.52	189	309	498	0.38
					1 Mark	Group; 1 Ma	rk Groups R	ecovere	d in Fisher	у		
2000	A-2	Salmon River at Shoup	PFH	Contribution	CWT 10/46/48°	7,66	3		0	13	13	0
		Bridge			CWT 10/54/14°	46,860			45	78	123	0.37
		0-1-4-4-1-			None	E 4 E 0	13,399		11	22	33	0.33
		Subtotals			No. Released	54,529	9 13,399 67,928	0.80	56	113	169	0.33
						roups; 1 Ma	77,520 Irk Groups R				103	0.33
	Calman Birra	ant Ohnassa Duidena Osebtat				00 50	- 40.005					
	Salmon Rive	r at Shoup Bridge Subtot	ais		No. Released	86,53	5 42,385 128,920	0.67	245	422	667	0.37
						roups; 2 Ma	rk Groups R				001	0.01
2001	A-1	Lemhi River at mouth	SFH	Production	CWT 10/48/36	31,626	6		190	160	350	0.54
					None	- ,-	68,748		413	348	761	0.54
		Subtotals				31,620	,					
					No. Released	. C 4 N	100,374	0.32	603	508	1,111	0.54
					1 Mark	Group; 1 M	lark Group R	ecovere	d in Fisher	у		
2000	A-2	Lemhi River	PFH	Contribution	CWT 10/36/06°	62,08			68	103	171	0.40
					None		51,286		56	85	141	0.40
			SFH	Production	None		24,040		26	40	66	0.39
		Subtotals				62,08°						
					No. Released	Graup: 1 M	137,407 Iark Group R	0.45	150	228	378	0.40
					i Wair	Gloup, I W	iaik Gioup N	ecovere	u III FISHEI	у		
	Lemhi River	Subtotals			No Bolomod	93,70		0.00	750	700	4 400	0.54
					No. Released 2 Mark G	roups; 2 Ma	237,781 ork Groups R	0.39 ecovere	753 d in Fisher	736 y	1,489	0.51
2001	۸ 1	Lombi Divor at L6	SFH	Droduction.	CMT 10/57/70°	01.74	-		40	110	150	0.20
2001	A-1	Lemhi River at L6 diversion site	SFH	Production	CWT 10/57/70° CWT 10/58/70°	21,74 22,24			48 293	110 113	158 406	0.30 0.72
		UIVEI SIUTI SILE			CWT 10/56/70° CWT 10/59/70°	21,48			32	109	141	0.72
					None	,	2,025		12	10	22	0.55

Appendix D. Continued.

									Estima	ated No. of I	Fish	·
Release Year	Stock and Ocean Age	Release Site	Stock Name <sup>a</sup>	Marking Purpose	Tags	No. of Fish Tagged		Mark Rate	Harvest	Hatchery Returns <sup>b</sup>	Total	Exploitation Rate
Fall 2002	-Spring 2003	Season, continued.										
	Lemhi River	at L6 diversion Subtotals	PFH	Supplementation	None	65,475	,		7	6	13	0.54
					3 Mark G	iroups; 3 Ma	68,769 rk Groups R	0.95 ecovered	392 d in Fisher	348 y	740	0.53
2001	A-1	Lemhi River at County scale	SFH	Supplementation	None		21,206		127	107	234	0.54
	Lemhi River	at County Scale Subtotals	PFH	Production	None	O	20,448 <b>41,654</b>		123	104	227	0.54
		•			No. Released 0 Mark Groups		41,654	0	250	211	461	0.54
2001	A-1	Lemhi River at Hayden Creek	PFH	Supplementation	None		34,052		205	172	377	0.54
	Lemhi River	at Hayden Creek Subtotal	s		No. Released 0 Mark Groups	0	34,052 34,052	0	205	172	377	0.54
2001	A-1	Hayden Creek Hatchery k Hatchery Subtotals	PFH	Production	None	0	40,044 <b>40,044</b>		241	203	444	0.54
	nayaen oree	k Hatchery Gubtotals			No. Released 0 Mark Groups	·	40,044	0	241	203	444	0.54
2001	A-1	Hayden Creek at Basin Creek	PFH	Supplementation	None		39,819		239	202	441	0.54
	Hayden Cree	k at Basin Creek Subtotal	s		No. Released 0 Mark Groups	O	39,819 39,819	0	239	202	441	0.54
2001	A-1	Salmon River at Red Rock	SFH	Production	CWT 10/60/70° CWT 10/61/70°	,			94 69	113 111	207 180	0.45 0.38
					CWT 10/62/70 <sup>c</sup> None				230 12	107 10	337 22	0.68 0.55
		Subtotals			No. Released	65,388	, -	0.97	405	341	746	0.54
						iroups; 3 Ma					1-10	3.04
2000	A-2	Salmon River at Red Rock Subtotals	PFH	Contribution	None	O	62,670		69	104	173	0.40
		Subtotals			No. Released 0 Mark Groups	·	62,670 62,670	0	69	104	173	0.40

Appendix D. Continued.

									Estima	ated No. of I	Fish	
Release Year	Stock and Ocean Age	Release Site	Stock Name <sup>a</sup>	Marking Purpose	Tags	No. of Fish I Tagged U	Released Intagged	Mark Rate	Harvest	Hatchery Returns <sup>b</sup>	Total	Exploitation Rate
Fall 2002-	-Spring 2003	Season, continued.										
	Salmon Rive	r at Red Rock Subtotals				65,388	64,692					
					No. Released	,	130,080	0.50	474	445	919	0.52
					3 Mark	Group; 3 Ma	rk Group R	ecovere	d in Fisher	у		
2001	A-1	Salmon River at Wagonhammer	SFH	Production	None		67,950		408	344	752	0.54
		Subtotals				0	67,950					
					No. Released 0 Mark Groups		67,950	0	408	344	752	0.54
2000	A-2	Salmon River at Wagonhammer	SFH	Production	None		1,845		43	65	108	0.40
		Wagomiamino	PFH	Production	None		39,246		2	3	5	0.40
		Subtotals				0	41,091	_				
					No. Released 0 Mark Groups		41,091	0	45	68	113	0.40
	Salmon Rive	r at Wagonhammer Subto	otals			0	109,041					
		-			No. Released 0 Mark Groups		109,041	0	453	412	865	0.52
2001	A-1	Salmon River at Lewis & Clark Sign (North Fork)	SFH	Production	None		76,182		458	386	844	0.54
		Subtotals				0	76,182					
					No. Released 0 Mark Groups		76,182	0	458	386	844	0.54
2000	A-2	Salmon River at Lewis & Clark Sign (North Fork)	PFH	Contribution	None		61,732		68	103	171	0.40
		Subtotals				0	61,732					
					No. Released		61,732	0	68	103	171	0.40
	Salmon River	r at Lewis and Clark Sign	Subtotals		0 Mark Groups	0	137,914					
	Samon Kive	at Lewis and Clark Sign	Jubiolais		No. Released	Ū	137,914		526	489	1,015	0.52
					0 Mark Groups		,				-,	
2001	A-1	Salmon River at Hammer	PFH	Production	CWT 10/54/70°	20,080			201	102	303	0.66
		Creek			CWT 10/55/70°	22,239			101	113	214	0.47
2001	A-1	Salmon River at Hammer	•		CWT 10/56/70°	21,969			151	111	262	0.58
	0-1 51	Creek	4-1-		None	64.655	111,097		783	563	1,346	0.58
	Salmon Rive	r at Hammer Creek Subto	tais		No. Released	64,288	111,097 175,385	0.37	1,236	889	2,125	0.58
						roups; 3 Mar	,		,		2,125	0.50

Appendix D. Continued.

		<u> </u>							Estima	ted No. of I		
Release Year	Stock and Ocean Age	Release Site	Stock Name <sup>a</sup>	Marking Purpose	Tags	No. of Fish Tagged	Released Untagged	Mark Rate	Harvest	Hatchery Returns <sup>b</sup>	Total	Exploitation Rate
Fall 2002	-Spring 2003	Season, continued.										
2001	A-1	Little Salmon River at Stinky Springs	PFH	Production	None		430,210		5,413	2,179	7,592	0.71
		Subtotals			No. Released 0 Mark Groups	(	0 430,210 430,210	0	5,413	2,179	7,592	0.71
2000	A-2	Little Salmon River at Stinky Springs	HC	Contribution	None		115,423		853	192	1,045	0.82
		Subtotals			No. Released 0 Mark Groups	(	0 115,423 115,423	0	853	192	1,045	0.82
2001	B-1	Little Salmon River at Stinky Springs	DNFH	Production	CWT 10/51/70° CWT 10/52/70°	21,67° 21,578	5		0 17	10 10	10 27	0 0.63
		Subtotals			CWT 10/53/70° None	13,350 <b>56,59</b> 0	1,750		52 2	6 1	58 3	0.90 0.67
		Subtotals			No. Released 3 Mark G	,	58,346 ark Groups R	0.97 ecovere	71 d in Fisher	27 y	98	0.72
2000	B-2	Little Salmon River at	DNFH	Contribution	CWT 10/36/05°	63,244			65	3	68	0.96
		Stinky Springs			None BWT 10/00/00	4.639	232,640		5 239	0 10	5 249	1.00 0.96
		Subtotals			No. Released	67,88		0.23	309	10 13	322	0.96
						roups; 1 Ma	rk Groups R				JLL.	0.30
1999	B-3	Little Salmon River at Stinky Springs	DNFH	Contriblution	CWT 10/52/56 None <sup>c</sup>	16,416	6 308.139		0	0 0	0 0	
		Subtotals			No. Released	16,410		0.05	0	0	0	
						Group; 0 Ma	rk Groups R		•		Ū	
	Little Salmon	River at Stinky Springs	Subtotals		No. Released	140,89	5 1,088,162 1,229,057	0.11	6,646	2,411	9,057	0.73
						roups; 3 Ma	rk Groups R				-,	
2000	B-2	South Fork Clearwater River at Mill Creek	DNFH	Production	None <sup>e</sup>		19,556		No	Estimates M	ade	
	South Fork C	learwater River at Mill C	reek Subtota	als	No. Released 0 Mark Groups	(	0 19,556 19,556					

									Estima	ated No. of		
Release Year	Stock and Ocean Age	Release Site	Stock Name <sup>a</sup>	Marking Purpose	Tags	No. of Fish Tagged		Mark Rate	Harvest	Hatchery Returns <sup>b</sup>	Total	Exploitation Rate
Fall 2002	-Spring 2003	Season, continued.										
2000	B-2	South Fork Clearwater River at Meadow Creek	DNFH	Supplementation; Late Eggs	None <sup>e</sup>		19,557		No	Estimates M	lade	
	South Fork C	learwater River at Meado	ow Creek S		No. Released 0 Mark Groups	O	19,557 19,557					
2000	B-2	Red River	DNFH	Supplementation; Late Eggs	None <sup>e</sup>		30,480		No	Estimates M	lade	
	Red River Su	btotals			No. Released 0 Mark Groups	O	30,480 30,480					
2000	B-2	American River	DNFH	Supplementation; Late Eggs	None <sup>c,e</sup>		96,187		No	Estimates M	lade	
	American Riv	ver Subtotals		_4.6 _990	No. Released 0 Mark Groups	0	96,187 96,187					
2000	B-2	Newsome Creek	DNFH	Supplementation; Late Eggs	None <sup>c,e</sup>		100,078		No	Estimates M	lade	
	Newsome Cr	eek Subtotals		Late Lygs	No. Released	O	100,078 100,078					
Releases	from Magic V	alley Fish Hatchery										
		"A" Stock Releases (with adipose fin clips)			No. Released 19 Mark	500,168 Groups; 18	3 2,058,215 2,558,383 Mark Group	0.20 s Recove	13,765 ered in Fisl	9,556 nery	23,321	I 0.59
		"B" Stock Releases (with adipose fin clips)			No. Released 20 Mark	504,340 Groups; 9 N	1,805,148 2,309,488 Mark Groups	0.22 Recove	2,757 red in Fish	84 ery	2,841	0.96
	Total Re	leases with Adipose Fin	Clips		No. Released 39 Marak	1,004,508 Groups; 27	3,863,363 4,867,871 Mark Group	0.21 s Recov	16,522 ered in Fis	9,640 hery	26,162	2 0.63
	Release	es without Adipose Fin C	lips		No. Released 0 Mark Groups	0	265,858 265,858					

									Estima	ated No. of I	Fish	
Release Year	Stock and Ocean Age	Release Site	Stock Name <sup>a</sup>	Marking Purpose	Tags		h Released Untagged	Mark Rate	Harvest	Hatchery Returns <sup>b</sup>	Total	Exploitation Rate
Fall 2002-	-Spring 2003	Season, continued.										
				CLEARWATE	R FISH HATCHER	Y RELEASE	:S					
1999	B-3	Red River at Soda Creek Bridge	DNFH	Supplementation	None <sup>c,e</sup>		4,993	3	No	Estimates M	lade	
		Subtotals			No. Released 0 Mark Groups		0 4,999 4,999					
2001	B-1	Red River	DNFH	Supplementation;	None <sup>e,f</sup>		149,346	3	No	Estimates M	lade	
		Subtotals		Late eggs	No. Released 0 Mark Groups		0 149,340 149,340					
	Red River Su	pplementation Subtotals			No. Released 0 Mark Groups		0 154,339 154,339					
2001	B-1	Red River	DNFH	Production	None		99,924	1	114	49	163	0.70
	Red River Su	ubtotals			No. Released 0 Mark Groups		0 99,924 99,924		114	49	163	0.70
2000	B-2	Red River Rearing Ponds	DNFH	Nez Perce Tribe Release	None <sup>c,e</sup>		139,662	2	No	Estimates M	ade	
	Red River Re	earing Ponds Subtotals		Notedate	No. Released 0 Mark Groups		0 139,662 139,662					
2001	B-1	South Fork Clearwater River at Meadow Creek	DNFH	Supplementation; Late eggs	None <sup>e</sup>		23,459	9	No	Estimates M	ade	
	South Fork C	Clearwater River at Meadov	v Creek S		No. Released 0 Mark Groups		0 23,459 23,459					
2001	B-1	South Fork Clearwater River at Mill Creek	DNFH	Supplementation;	None <sup>e,f</sup>		24,549	9	No	Estimates M	ade	
	South Fork C	River at Mill Greek Clearwater River at Mill Cre	ek Subto	Late eggs tals	No. Released 0 Mark Groups		0 24,549 24,549					

Appendix D. Continued.

Part										Estima	ated No. of	Fish	
B-1			Release Site		•	Tags				Harvest	₹.	Total	
River at Red House Hole   CWT 10/48/26*   22.076	Fall 2002-	-Spring 2003	Season, continued.										
River at Red House Hole   CWT 10/48/26*   22.076	0004	D 4	O th. F O	DNEU	Doodeettee	OMT 40/40/00 <sup>0</sup>		00.700		0	40	40	0.44
Subtotals   Subt	2001	B-1		DNFH	Production								
None			River at Red House Hole							-			•
No. Released   Sy.766   112   48   160   0.70								,					
No. Released   Samk Groups; 2 Mark Groups			Subtotals			None		,		39	17	50	0.70
South Fork Clearwater River Subtotals			Subtotals			No Rolessed			0	112	48	160	0.70
B-2   South Fork Clearwater River at Red House Hole   Subtotals   Subtotals							rouns: 2 M	,	-			100	0.70
River at Red House Hole   Subtotals   Su						o mark o	roups, z m	ark Groups it	0001010	a	y		
River at Red House Hole   Subtotals   Su	2000	B-2	South Fork Clearwater	DNFH	Contribution	CWT 10/54/26°	32.10	)1		232	113	345	0.67
Subtotals													
No. Released   South Fork Clearwater   River at Red House Hole   Subtotals						None	,	248,119		3007	895	3902	0.77
1999   B-3   South Fork Clearwater River Subtotals			Subtotals				63,29	7 248,119					
1999   B-3   South Fork Clearwater   River at Red House Hole   CWT 10/52/35   20,645   0 0 7 7 7 0 0 0 7 7 7 0 0 0 0 0 7 7 7 0						No. Released		311,416	0.20	3,774	1,124	4,898	0.77
River at Red House Hole   CWT 10/52/36° 21,200   0 7 7 7 0 0						2 Mark G	roups; 2 M	ark Groups R	ecovere	d in Fisher	У		
River at Red House Hole   CWT 10/52/36° 21,200   0 7 7 7 0 0	1999	B-3	South Fork Clearwater	DNFH	Contribution	CWT 10/52/35	20 64	l5		0	8	8	0
Subtotals   Subt				2	00111110011011								
None   62,608   337,858   0   121   121   0											7		
No. Released 3 Mark Groups; 0 Mark Groups Recovered in Fishery   South Fork Clearwater River Subtotals   South Fork Clearwater River Subtotals   South Fork Clearwater River Subtotals   No. Released 8 Mark Groups; 4 Mark Groups Recovered in Fishery   No. Released 8 Mark Groups; 4 Mark Groups Recovered in Fishery   No. Released 8 Mark Groups Recovered in Fishery   No. Released 8 Mark Groups Recovered in Fishery   No. Released 121,439   No. Released 121,439   To. 10						None	-, -			0	121	121	0
South Fork Clearwater River Subtotals   South Fork Clearwater River River River Subtotals   South Fork Clearwater River Ri			Subtotals				62,60	8 337,858					
South Fork Clearwater River Subtotals   No. Released 809,648   0.16   3,886   1,315   5,201   0.75						No. Released		400,466	0.16	0	143	143	0
No. Released   809,648   0.16   3,886   1,315   5,201   0.75						3 Mark G	roups; 0 M	ark Groups R	ecovere	d in Fisher	у		
Section   Sect		South Fo	rk Clearwater River Subto	otals			125,90	5 683,743					
2001   B-1   Clear Creek   DNFH   Supplementation; Late eggs   None   76,101   0   7   7   0								,		,	,	5,201	0.75
Late eggs   None   76,101   0   7   7   0						8 Mark G	roups; 4 M	ark Groups R	ecovere	d in Fisher	У		
Subtotals   Subtotals   Subtotals   Property   Proper	2001	B-1	Clear Creek	DNFH	Supplementation;	CWT 10/48/02	21,43	19		0	2	2	0
No. Released   97,540   0.22   0   9   9   0					Late eggs	None		76,101		0	7	7	0
1 Mark Group; 0 Mark Groups Recovered in Fishery  2000 B-2 Clear Creek DNFH Contribution CWT 10/54/19° 43,375 255 61 316 0.81 None 140,482 826 198 1023 0.81  Subtotals 43,375 140,482 No. Released 183,857 0.24 1,081 259 1,340 0.81 1 Mark Group; 1 Mark Group Recovered in Fishery  1999 B-3 Clear Creek DNFH Moore/Clark Diet CWT 10/52/33° 20,668 0 0 0 0			Subtotals				21,43						
2000 B-2 Clear Creek DNFH Contribution CWT 10/54/19° 43,375 255 61 316 0.81 None 140,482 826 198 1023 0.81  Subtotals 43,375 140,482 No. Released 183,857 0.24 1,081 259 1,340 0.81 1 Mark Group; 1 Mark Group Recovered in Fishery  1999 B-3 Clear Creek DNFH Moore/Clark Diet CWT 10/52/33° 20,668 0 0 0 0								,		-	-	9	0
None 140,482 826 198 1023 0.81  Subtotals 43,375 140,482  No. Released 183,857 0.24 1,081 259 1,340 0.81  1 Mark Group; 1 Mark Group Recovered in Fishery  1999 B-3 Clear Creek DNFH Moore/Clark Diet CWT 10/52/33° 20,668 0 0 0						1 Mark	Group; 0 M	ark Groups R	ecovere	d in Fisher	У		
Subtotals 43,375 140,482 No. Released 183,857 0.24 1,081 259 1,340 0.81 1 Mark Group; 1 Mark Group Recovered in Fishery  1999 B-3 Clear Creek DNFH Moore/Clark Diet CWT 10/52/33° 20,668 0 0 0	2000	B-2	Clear Creek	DNFH	Contribution	CWT 10/54/19 <sup>c</sup>	43,37	'5		255	61	316	0.81
No. Released 183,857 0.24 1,081 259 1,340 0.81 1 Mark Group; 1 Mark Group Recovered in Fishery  1999 B-3 Clear Creek DNFH Moore/Clark Diet CWT 10/52/33° 20,668 0 0 0						None		140,482		826	198	1023	0.81
1 Mark Group; 1 Mark Group Recovered in Fishery  1999 B-3 Clear Creek DNFH Moore/Clark Diet CWT 10/52/33° 20,668 0 0 0			Subtotals				43,37	<b>'5 140,482</b>					
1999 B-3 Clear Creek DNFH Moore/Clark Diet CWT 10/52/33° 20,668 0 0 0												1,340	0.81
						1 Mark	Group; 1 M	Mark Group R	ecovere	d in Fisher	у		
	1999	B-3	Clear Creek	DNFH	Moore/Clark Diet	CWT 10/52/33°	20,66	8		0	0	0	
					(Feed Exp.)		,			0	0	0	

Release Year	Stock and Ocean Age	Release Site							Estimated No. of Fish			
			Stock Name <sup>a</sup>	Marking Purpose	Tags	No. of Fish I Tagged U		Mark Rate	Harvest	Hatchery Returns <sup>b</sup>	Total	Exploitation Rate
Fall 2002-	-Spring 2003	Season, continued.										
1999	B-3	Claar Craak continued	DNFH	Dia Diat Food	CWT 10/52/24°	20.222			0	0	0	
1999	B-3	Clear Creek, continued.	DINFH	Bio-Diet Feed (Feed Exp.)	CWT 10/52/34° None	20,322	38.648		0 0	0 0	0 0	
		Subtotals		(i eeu Lxp.)	NOHE	40,990	149,549		U	U	U	
		Captotalo			No. Released	10,000	190,539	0.22	0	0	0	
						roups; 0 Mar			d in Fisher	у	_	
	Clear Creek S	Subtatala				405.004	200 420					
	Clear Creek S	Subtotals			No. Released	105,804	366,132 471,936		1,081	268	1,349	0.80
						Groups; 1 Ma					1,343	0.00
					4 IVIAI N	Groups, r wia	iik Gioup N	ecovere	u III FISHEI	у		
2001	B-1	Crooked River	DNFH	Supplementation	BWT 10/00/00 <sup>c,e</sup>	20,000			No	Estimates M	ade	
				• •	None <sup>e</sup>		76,632		No	Estimates M	ade	
	Crooked R	iver Supplementation Su	ıbtotals			20,000	76,632					
					No. Released		96,632					
		1 Mark Group; 0 Mark Groups Recovered in Fishery						У				
2001	B-1	Crooked River	DNFH	Production	CWT 10/48/23°	22.679			0	11	11	0
	Σ,	Crocked raver	D	rioddollon	CWT 10/18/24°	22,010			0	11	11	Ö
					CWT 10/48/25°	21,977			0	11	11	0
					None	,-	82,249		0	41	41	0
	Crooked Rive	er Subtotals				66,666	82,249					
					No. Released		148,915	0.45	0	74	74	0
					4 Mark G	roups; 0 Mar	k Groups R	ecovere	d in Fisher	У		
2000	B-2	Crooked River Ponds	DNFH	Nez Perce Tribe Release	None <sup>c,e</sup>		100,331		No Estimates Made			
	Crooked Rive	er Ponds Subtotals				0	100,331					
					No. Released 0 Mark Groups		100,331					
2001	B-1	Lolo Creek	DNFH	Supplementation; Late eggs	None <sup>e</sup>		48,523		No	Estimates M	ade	
	Lolo Creek S	uhtotals		Late eggs		0	48,523					
	Loio Greek G	ustotuis			No. Released 0 Mark Groups	·	48,523					
Relea	ses from Clea	arwater Fish Hatchery										
		"B" Stock Releases				298.375	1,232,048					
		(with adipose fin clips)			No. Released	,	1,530,423	0.19	5,081	1,706	6,787	0.75
					15 Mark Groups; 5 Mark Groups Recovered in Fishery							

	D. Continuca.								Estima	ated No. of	Fish	
Release Year	Stock and Ocean Age	Release Site	Stock Name <sup>a</sup>	Marking Purpose	Tags	No. of Fish I Tagged U		Mark Rate	Harvest	Hatchery Returns <sup>b</sup>	Total	Exploitation Rate
Fall 2002-	-Spring 2003	Season, continued.										
	Release	es without Adipose Fin	Clips		No. Released 1 Mark	20,000 Group; 0 Mar	567,495 587,495 k Groups R		 d in Fisher	 y		
Total Retu	urns for Run	Year 2002-2003										
		Releases with Adipose	e Fin Clips			1.596.178	6,684,831					
					No. Released 69 Mark Gr	oups; 46 Mar	8,281,009		28,730 d in Fisher	14,519 y	43,24	9 0.66
	R	eleases without Adipos	e Fin Clips		No. Released 2 Mark G	37,581 Groups; 0 Mar	1,337,226 1,374,807 k Groups R		 d in Fisher	 y		
				HAGERMAN NATI	ONAL FISH HATC	HERY RELEA	SES					
2002	A-1	Sawtooth Hatchery	SFH	Production	CWT 10/07/72	43,087			155	71	226	0.69
		Subtotals			None	43,087	738,050 <b>738,050</b>		2655	2143	4798	0.55
					No. Released 1 Mark	ς Group; 1 Μa	781,137 Irk Group R		2,810 d in Fisher	2,214 y	5,024	0.56
2001	A-2	Sawtooth Hatchery	SFH	Acclimated;	CWT 10/48/03	20,236			4	4	8	0.50
				Production	CWT 10/48/05	18,445			0	0	0	
					CWT 10/48/06 None	20,278	512,185		9 113	2 146	11 259	0.82 0.44
			SFH	Production; Direct Release	None		136,690		30	39	69	0.43
		Subtotals		Billoot Holodoo		58,959	648,875					
					No. Released 3 Mark G	iroups; 2 Mar	707,834 k Groups R		156 d in Fisher	191 y	347	0.45
	Sawtooth Ha	tchery Subtotals			No Bolomod	102,046	1,386,925		0.000	0.405	5.074	0.55
					No. Released 4 Mark	Groups; 3 Ma	1,488,971 ark Groups		2,966 red in Fish	2,405 ery	5,371	0.55
2002	A-1	Yankee Fork Salmon River dredge ponds	SFH	Supplementation	None <sup>e</sup>	•	139,445		No	Estimates M	lade	
		Subtotals			No. Released 0 Mark Groups	0	139,445 139,445					

									Estima	ated No. of I	Fish	
Release Year	Stock and Ocean Age	Release Site	Stock Name <sup>a</sup>	Marking Purpose	Tags		n Released Untagged	Mark Rate	Harvest	Hatchery Returns <sup>b</sup>	Total	Exploitation Rate
Fall 2003	-Spring 2004	<u>Season</u>										
2001	A-2	Yankee Fork Salmon River dredge ponds	SFH	Supplementation	None <sup>e</sup>		137,656		No	Estimates M	ade	
		Subtotals			No. Released 0 Mark Groups		0 137,656 137,656			-		
	Yankee Fork	Salmon River dredge po	ond Subtota	als	No. Released 0 Mark Groups		0 277,101 277,101					
2002	A-1	Little Salmon River at	PFH	Production	None <sup>e</sup>		218,124		No	Estimates M	ade	
	Little Salmon	Highway 95 Bridge I River at Highway 95 Br	idge Subto	tals	No. Released 0 Mark Groups		0 218,124 218,124					
2001	A-2	Little Salmon River at Stinky Springs Subtotals	PFH	Supplementation	CWT 10/48/04 <sup>e</sup> None <sup>e</sup>	17,58 <b>17,58</b>	139,031			Estimates M Estimates M		
	Little Salmon	River Subtotals			No. Released 1 Mark		156,612 ark Groups R		 ed in Fisher	 y		
2001	A-2	Hazard Creek	PFH	Supplementation	None <sup>e</sup>		50,557 <b>0 50.557</b>		No	Estimates M	ade	
	Hazard Creek	CSubtotals			No. Released 0 Mark Groups		0 50,557 50,557					
2001	B-2 Newsome Cr	Newsome Creek	DNFH	Supplementation	None <sup>e</sup>		86,441 <b>0 86,441</b>		No	Estimates M	ade	
					No. Released 0 Mark Groups		86,441					
2002	B-1	American River	DNFH	Nez Perce Tribe Agreement	None <sup>e</sup>		94,232		No	Estimates M	ade	
		Subtotals		Agreement	No. Released 0 Mark Groups		0 94,232 94,232					
2001	B-2	American River Subtotals	DNFH	Supplementation	None <sup>e</sup>		90,188 <b>0 90,188</b>		No	Estimates M	ade	
		Jubiolais			No. Released 0 Mark Groups		90,188					

									Estima	ated No. of I	Fish	-
Release Year	Stock and Ocean Age	Release Site	Stock Name <sup>a</sup>	Marking Purpose	Tags	No. of Fish Tagged U		Mark Rate	Harvest	Hatchery Returns <sup>b</sup>	Total	Exploitation Rate
Fall 2003	-Spring 2004	Season, continued.										
	American Riv	ver Subtotals			No. Released 0 Mark Groups	0	184,420 184,420					
Relea	ses from Hag	erman National Fish Hat	chery									
		("A" Stock Releases) (with adipose fin clips)			No. Released 4 Mark G	102,046 Groups; 3 Mar	1,386,925 1,488,971 k Groups R	0.07 ecovere	2,966 ed in Fisher	2,405 y	5,371	0.55
		es without Adipose Fin C A" and "B" Stock Releas			No. Released 1 Mark	17,581 Group; 0 Mar	973,255	 ecovere	 ed in Fisher	 y		
				MAGIC VALI	EY FISH HATCHER	Y RELEASES	3					
2001	B-2 Sawtooth Ha	Sawtooth Hatchery tchery Subtotals	DNFH	Production	None	0	1,145 <b>1,145</b>		1	0	1	1.00
		•			No. Released 0 Mark Groups		1,145	0	1	0	1	1.00
2002	A-1	Yankee Fork Salmon River dredge ponds	SFH	Production	None		99,738		359	290	649	0.55
	Yankee Fork	Salmon River dredge po	onds Subtota	ıls	No. Released 0 Mark Groups	0	99,738 99,738	0	359	290	649	0.55
2001	A-2	Yankee Fork Salmo River at 3rd bridge up	on SFH	Production	None <sup>c</sup>	0	98,623 <b>98,623</b>		22	28	50	0.44
	Yankee Fork	Salmon River Subtotals			No. Released 0 Mark Groups		98,623	0	22	28	50	0.44
2002	B-1	Squaw Creek ponds Subtotals	DNFH	Production	None	0	96,440 <b>96,440</b>		0	1	1	0
					No. Released 0 Mark Groups		96,440	0	0	1	1	0
2001	B-2	Squaw Creek pond Subtotals	DNFH	Production	None	0	75,912 <b>75,912</b>		42	2	44	0.95
					No. Released 0 Mark Groups		75,912	0	42	2	44	0.95

Appendix D. Continued.

									Estima	ated No. of I	Fish	
Release Year	Stock and Ocean Age	Release Site	Stock Name <sup>a</sup>	Marking Purpose	Tags	No. of Fish Tagged	Released Untagged	Mark Rate	Harvest	Hatchery Returns <sup>b</sup>	Total	Exploitation Rate
Fall 2003-	-Spring 2004	Season, continued.										
2000	B-3	Squaw Creek Ponds Subtotals	DNFH	Production	None		106,135 <b>0 106,135</b>		9	0	9	1.04
		Subtotals			No. Released 0 Mark Groups	,	106,135	0	9	0	9	1.04
	Squaw Creek	Pond Subtotals			No. Released 0 Mark Groups	,	0 278,487 278,487	0	51	3	54	0.95
2002	B-1	Squaw Creek (upper)	DNFH	Production/ Squaw Creek	CWT 10/93/71 None	31,51	8 198,660		2 13	1 3	3 16	0.67 0.81
			EF	Production/	CWT 10/66/70	20,43	9		26	1	27	0.96
				Squaw Creek	CWT 10/10/72	9,89			7	1	8	0.88
		Subtotals		•	None	61,85	29,024 <b>227,684</b>		32	1	33	0.97
					No. Released 3 Mark G	roups; 3 Ma	289,534 Irk Groups R	0.21 ecovere	80 d in Fisher	7 y	87	0.92
2001	B-2	Squaw Creek (upper)	EF	Production	CWT 10/48/15°	19,33	2		10	5	15	0.67
2001	D-Z	Oquaw Oreek (upper)	Li	Troduction	CWT 10/48/16°	17,55			36	5	41	0.88
2001	B-2	Squaw Creek (upper),			None		1,141		1	0	1	1.00
		Continued.	DNFH	Production	BWT 10/00/00	8,16			4	0	4	1.00
			DNFH	Production	CWT 10/48/21°	18,73	0		15	0	15	1.00
					CWT 10/48/22°	17,81	0		5	0	5	1.00
		Subtotals			None	81,58	85,733 <b>7 86,874</b>		47	2	49	0.96
					No. Released		168,461	0.48	118	12	130	0.91
					5 Mark G	roups; 4 Ma	rk Groups R	ecovere	d in Fisher	У		
2000	B-3	Squaw Creek (upper)	DNFH	Contribution	CWT 10/54/13°	50,82	0		0	0	0	
					CWT 10/46/47 <sup>c</sup>	10,52	3		5	0	5	1.00
					BWT 10/00/00	34	7		0	0	0	1.00
					None		131,946		11	0	11	
		Subtotals	EF	Production	None <sup>c</sup>	61,69	51,866 <b>183,812</b>		4	0	4	1.00
					No. Released		245,502	0.2	25 20	0	20	1.00
					3 Mark G	roups; 1 Ma	rk Groups R	ecovere	d in Fisher	у		
	Squaw Creek	Subtotals				205,12	,					
					No. Released		703,497	0.29	218	19	237	0.92
					11 Mark G	roups; 8 Ma	ırk Groups R	ecovere	a in Fisher	У		

Appendix D. Continued.

									Estima	ated No. of I	Fish	
Release	Stock and		Stock	Marking			h Released	Mark		Hatchery		Exploitation
Year	Ocean Age	Release Site	Name	Purpose	Tags	Tagged	Untagged	Rate	Harvest	Returns <sup>b</sup>	Total	Rate
Fall 2003-	-Spring 2004	Season, continued.										
2002	B-1	East Fork Salmon River at dumpster	DNFH	Production	None		214,252		14	3	17	0.82
2002	D-1	Subtotals	DIVITI	Troduction	None		0 214,252		17	3	.,	0.02
					No. Released 0 Mark Groups		214,252	0	14	3	17	0.82
		East Fork Salmon River										
2001	B-2	at dumpster	DNFH	Production	None		51,810		28	14	42	0.67
		Subtotals			No. Released		0 51,810	•	20	14	40	0.07
					0 Mark Groups		51,810	0	28	14	42	0.67
2000	B-3	East Fork Salmon River at Dumpster	DNFH	Production	None		239,981		20	0	20	1.00
		Subtotals					0 239,981					
					No. Released 0 Mark Groups		239,981	0	20	0	20	1.00
	East Fork Sal	lmon River at Dumpster S	ubtotals				0 506,043					
		·			No. Released 0 Mark Groups		506,043	0	62	17	79	0.78
2002	B-1	East Fork Salmon River trap	EF	East Fork Natural Program	None <sup>e</sup>		3,800		No	Estimates M	lade	
	East Fork Sa	แลค Imon River Trap Subtotals	<b>3</b>	Fiogram			0 3,800					
					No. Released 0 Mark Groups		3,800				-	-
2002	A-1	Salmon River at Tunnel Rock	SFH	Production	None		49,800		81	361	442	0.18
		Subtotals					0 49,800					
					No. Released 0 Mark Groups		49,800	0	81	361	442	0.18
2001	A-2	Salmon River at Tunnel	SFH	Production	CWT 10/48/18 <sup>c</sup>	21,48	36		20	13	33	0.61
		Rock			CWT 10/48/19°	21,06	<b>31</b>		187	12	199	0.94
					CWT 10/48/20°	20,77			5	12	17	0.29
		0.14.4.			None		1,958		7	1	8	0.88
		Subtotals			No Delega-	63,32		0.07	040	20	05-	0.05
					No. Released	roune: 2 M	65,280 ark Groups B	0.97	219 d in Eisbar	38	257	0.85
					3 IVIATK G	noups, s IVI	ark Groups R	ecovere	u iii risiler	У		

			٠.						Estima	ted No. of I	Fish	- <b>_</b>
Release Year	Stock and Ocean Age	Release Site	Stock Name <sup>a</sup>	Marking Purpose	Tags	No. of Fish Tagged	Released Untagged	Mark Rate	Harvest	Hatchery Returns <sup>b</sup>	Total	Exploitation Rate
Fall 2003-	-Spring 2004	Season, continued.										
	Salmon Rive	r at Tunnel Rock Subtotal	ls			63,32	2 51,758					
					No. Released	,	115,080	0.55	300	399	699	0.43
					3 Mark G	iroups; 3 Ma	ark Groups R	ecovere	d in Fisher	у		
2002	A-1	Salmon River at Challis	SFH	Production	CWT 10/11/72	10,94	3		16	79	95	0.17
					CWT 10/67/70	21,50			37	156	193	
					None		25,153		41	182	223	0.18
		Subtotals				32,44						
					No. Released	0 Ma	57,600	0.56	94	417	511	0.18
					2 Mark G	iroups; 2 Ma	ark Groups R	ecovere	a in Fisner	y		
2001	A-2	Salmon River at Challis	SFH	Production	None		41,850		140	25	165	0.85
		Subtotals				(	0 41,850					
					No. Released 0 Mark Groups		41,850	0	140	25	165	0.85
	Salmon Rive	r at Challis Subtotals				32,44	7 67,003					
					No. Released	,	99,450	0.33	234	442	676	0.35
					2 Mark G	iroups; 2 Ma	ark Groups R	ecovere	d in Fisher	y		
2002	A-1	Salmon River at	SFH	Production	None		70,590		115	511	626	0.18
		McNabbs Point					•					
		Subtotals					0 70,590					
					No. Released		70,590	0	115	511	626	0.18
					0 Mark Groups							
		Salmon River at										
2001	A-2	McNabbs Point	SFH	Production	None		84,389		283	50	333	0.85
		Subtotals				(	0 84,389					
					No. Released		84,389	0	283	50	333	0.85
					0 Mark Groups							
	Salmon Rive	r at McNabbs Point Subto	tals				0 154,979					
					No. Released		154,979	0	398	561	959	0.42
					0 Mark Groups							
2002	A-1	Salmon River at	SFH	Production	None		62.049		101	449	550	0.18
2002	A-1	Cottonwood Campground		rioduction	NOTE		62,048		101	449	550	0.10
		Subtotals	•				0 62,048					
					No. Released		62,048	0	101	449	550	0.18
					0 Mark Groups							

Appendix D. Continued.

									Estima	ated No. of I	Fish	
Release Year	Stock and Ocean Age	Release Site	Stock Name <sup>a</sup>	Marking Purpose	Tags	No. of Fis Tagged	h Released Untagged	Mark Rate	Harvest	Hatchery Returns <sup>b</sup>	Total	Exploitation Rate
	Occum Age	recease one	Humo	i uipose	rugo	ruggeu	Omaggea	Nuto	1101 7000	rectario	Total	rate
Fall 2003-	-Spring 2004	Season, continued.										
2001	A-2	Salmon River at Cottonwood Campground	SFH	Production	None		77,790		260	46	306	0.85
		Subtotals			No. Released 0 Mark Groups		0 77,790 77,790	0	260	46	306	0.85
	Salmon River	r at Cottonwood Campgro	und Subtot	tals	No. Released 0 Mark Groups		0 139,838 139,838	0	361	495	856	0.42
2002	A-1	Salmon River at Colston Corner	PFH	Production	None		39,005		195	283	478	0.41
		Subtotals			No. Released 0 Mark Groups		0 39,005 39,005	0	195	283	478	0.41
2001	A-2	Salmon River at Colston Corner	PFH	Production	None		50,300		53	30	83	0.64
		Subtotals			No. Released 0 Mark Groups		0 50,300 50,300	0	53	30	83	0.64
	Salmon River	r at Colston Corner Subto	tals		No. Released 0 Mark Groups		0 89,305 89,305	0	248	313	561	0.44
2002	A-1	Salmon River at Eyehole Subtotals	SFH	Production	None		41,350 <b>0 41,350</b>		68	300	368	0.18
		Custotalo			No. Released 0 Mark Groups		41,350	0	68	300	368	0.18
2001	A-2	Salmon River at Eyehole Subtotals	SFH	Production	None		45,270 <b>0 45,270</b>		48	27	75	0.64
					No. Released 0 Mark Groups		45,270	0	48	27	75	0.64
	Salmon Rive	r at Eyehole Subtotals			No. Released 0 Mark Groups		0 86,620 86,620	0	116	327	443	0.26

Appendix D. Continued.

Release   Stock and   Release   Stock and   Release   Stock   Name*   Purpose   Tags   Tags   Tags   Tags   Tags   No. of Fish   Released   Name*   Ratchery   Raturns*   No. of Fish   Released   Name*   Name*		ish	ated No. of F	Estima									Release Stock and				
Salmon River at Shoup Bridge   Subtotals   Subtotals	Exploitation Rate	Total	T.	Harvest				Tags	_		Release Site						
No. Released   No.											Season, continued.	-Spring 2004 S	Fall 2003-				
No. Released   No. Released   R	0.42	787	456	331		63,000		None	Production	PFH		A-1	2002				
No. Released   No.						63.000											
None   32,986   31   17   48	0.42	787	456	331	0	,											
No. Released   No.	0.64	53	19	34		<b>;</b>	32,006	CWT 10/48/35°	Production	SFH	Salmon River at Shoup	A-2	2001				
No. Released   No. Released   South   No. Released   South   No. Released   No.	0.65	48	17	31				None			•						
Salmon River at Shoup Bridge Subtotals   Salmon River at Mouth Subtotals   PFH   Production   None   Salmon River at Mouth Subtotals   Subtotals   PFH   Production   None   Salmon River at Mouth Subtotals   Subtotals   Salmon River at Mouth Subtotals   Salmon River at St. Charles Bridge   PFH   Production   None   Salmon River	0.04	404	20	C.F.	0.50		32,000	No Delegand			Subtotals						
No. Released   123,992   0.26   396   492   888	0.64	101	36				Mark Group										
No. Released   123,992   0.26   396   492   888						91 986	32 000			als	at Shoup Bridge Subtot	Salmon River					
None   Subtotals   PFH   Production   None   Subtotals   Subtotals   PFH   Production   None   Subtotals   Subtotals   No. Released   None   None	0.45	888	492	396	0.26	,	02,00	No. Released		u.io	at oneap Briage castot	ounnon more					
No. Released   No.				ishery	ikn the F	Recovered	Mark Group	1 Mark Group; 1									
No. Released   No.	0.42	1,058	613	445				None	Production	PFH		A-1	2002				
2001   A-2   Lemhi River at mouth   SFH   Production   CWT 10/48/36   31,626   47   19   66   None   68,748   102   40   142   142   Subtotals   Sub	0.40	4.0=0	242		_		(				Subtotals						
None   68,748   102   40   142   142   142   143   144   1	0.42	1,058	613	445	U	84,608											
Subtotals   Subtotals   No. Released   100,374   0.32   149   59   208	0.71	66	19	47		;	31,626	CWT 10/48/36	Production	SFH	Lemhi River at mouth	A-2	2001				
No. Released   100,374   0.32   149   59   208   1 Mark Group; 1 Mark Group Recovered in Fishery	0.72	142	40	102		,		None									
Lemhi River at Mouth Subtotals  Lemhi River at Mouth Subtotals  31,626  No. Released 184,982 0.17 184,982 0.17 594 672 1,266 1 Mark Group; 1 Mark Group; 1 Mark Group Recovered in Fishery  2002  A-1 Lemhi River at St. PFH Production Charles Bridge Lemhi River at St. Charles Bridge (not adipose fin clipped) Subtotals  No. Released 72,442 No. Released 72,442						,	31,620				Subtotals						
Lemhi River at Mouth Subtotals    State	0.72	208				,	Group: 1 M										
No. Released 184,982 0.17 594 672 1,266 1 Mark Group; 1 Mark Group Recovered in Fishery  2002 A-1 Lemhi River at St. PFH Production None <sup>e,t</sup> 72,442 No Estimates Made Charles Bridge Lemhi River at St. Charles Bridge (not adipose fin clipped) Subtotals 0 72,442 No. Released 72,442			y	a iii risilei y	ecovere	ark Group K	Group, r w	I Walk									
2002 A-1 Lemhi River at St. PFH Production None <sup>e,t</sup> 72,442 No Estimates Made Charles Bridge  Lemhi River at St. Charles Bridge (not adipose fin clipped) Subtotals  No. Released 72,442 72,442 72,442 72,442 72,442 72,442 73,442 74,442 75,442 75,442 76,442 76,442						,	31,620				nt Mouth Subtotals	Lemhi River a					
2002 A-1 Lemhi River at St. PFH Production None <sup>e,f</sup> 72,442 No Estimates Made Charles Bridge  Lemhi River at St. Charles Bridge (not adipose fin clipped) Subtotals  No. Released  72,442  72,442  72,442  72,442  72,442  72,442  72,442  72,442  72,442	0.47	1,266															
Charles Bridge Lemhi River at St. Charles Bridge (not adipose fin clipped) Subtotals  No. Released  72,442			y	d in Fishery	ecovere	ark Group R	Group; 1 M	1 Mark									
Lemhi River at St. Charles Bridge (not adipose fin clipped) Subtotals 0 72,442		ade	Estimates Ma	No E		72,442		None <sup>e,f</sup>	Production	PFH		A-1	2002				
							O	als	n clipped) Subtota	adipose fir		Lemhi River a					
0 Mark Groups						72,442											
								0 Mark Groups									
2002 A-1 Lemhi River at St. PFH Production CWT 10/68/70 21,328 113 154 267	0.42	267	154	113				CWT 10/68/70	Production	PFH	Lemhi River at St.	A-1	2002				
Charles Bridge CWT 10/12/72 10,833 56 78 134	0.42	134	78				10,833				Charles Bridge						
None 118,915 625 861 1,486	0.42	1,486	861	625				None									
Lemhi River at St. Charles Bridge Subtotals 32,161 118,915	0.40	4.00=	4 000	704	0.04	,	32,16	No Dalacca		totals	at St. Charles Bridge Sub	Lemhi River a					
No. Released 151,076 0.21 794 1,093 1,887 2 Mark Groups; 2 Mark Groups Recovered in Fishery	0.42	1,887	,			,											

Appendix D. Continued.

									Estima	ated No. of I	Fish	
Release Year	Stock and Ocean Age	Release Site	Stock Name <sup>a</sup>	Marking Purpose	Tags	No. of Fish Tagged		Mark Rate	Harvest	Hatchery Returns <sup>b</sup>	Total	Exploitation Rate
Fall 2003	-Spring 2004	Season, continued.										
2001	A-2	Lemhi River at L6 diversion site	SFH	Production	CWT 10/57/70° CWT 10/58/70° CWT 10/59/70° None	21,744 22,243 21,488			2 2 9 0	13 13 13 1	15 15 22 1	0.13 0.13 0.41 0
	Lemhi River	at L6 diversion Subtotals	PFH	Supplementation	None	65,475			0	1	1	0
					2 Mark C	varinai 2 Mar	68,769	0.95	13	41	54	0.24
					3 Mark G	roups; 3 Mar	k Groups k	ecovere	a in Fisher	у		
2001	A-2	Lemhi River at County scale	SFH	Supplementation	None		21,206		4	12	16	0.25
	Lemhi River	at County Scale Subtotals	PFH	Production	None	0	,		4	12	16	0.25
					No. Released 0 Mark Groups		41,654	0	8	24	32	0.25
2001	A-2	Lemhi River at Hayden Creek	PFH	Supplementation	None		34,052		7	20	27	0.26
	Lemhi River	at Hayden Creek Subtotals	;			0	,					
					No. Released 0 Mark Groups		34,052	0	7	20	27	0.26
2002	A-1	Hayden Creek Hatchery Subtotals	PFH	Production	None	0	37,500 <b>37,500</b>		197	272	469	0.42
					No. Released 0 Mark Groups		37,500	0	197	272	469	0.42
2001	A-2	Hayden Creek Hatchery Subtotals	PFH	Production	None	0	40,044 <b>40,044</b>		8	24	32	0.25
					No. Released 0 Mark Groups	·	40,044	0	8	24	32	0.25
	Hayden Cree	k Hatchery Subtotals			No. Released 0 Mark Groups	0	77,544 77,544	0	205	296	501	0.41
2001	A-2	Hayden Creek at Basin Creek	PFH	Supplementation	None		39,819		8	23	31	0.26
	Hayden Cree	k at Basin Creek Subtotals	5		No. Released 0 Mark Groups	0	39,819 39,819	0	8	23	31	0.26

Appendix D. Continued.

									Estima	ated No. of	Fish	_
Release Year	Stock and Ocean Age	Release Site	Stock Name <sup>a</sup>	Marking Purpose	Tags	No. of Fish Tagged	Released Untagged	Mark Rate	Harvest	Hatchery Returns <sup>b</sup>	Total	Exploitation Rate
Fall 2003-	-Spring 2004	Season, continued.										
		Salmon River at Re	ad.									
2002	A-1	Rock	PFH	Production	None		34,085		179	247	426	0.42
			SFH	Production	None		7,353		12	53	65	0.18
		Subtotals					0 41,438					
					No. Released 0 Mark Groups		41,438	0	191	300	491	0.39
		Salmon River at Re	<sup>2</sup> d									
2001	A-2	Rock	SFH	Production	CWT 10/60/70°	22,310	n		40	13	53	0.75
_00.			<b>.</b>		CWT 10/61/70°	21,856			15	13	28	0.54
					CWT 10/62/70°	21,222			27	12	39	0.69
					None	•	2,022		3	1	4	0.75
		Subtotals				65,388						
					No. Released		67,410	0.97	85	39	124	0.69
					3 Mark G	roups; 3 Ma	ırk Groups R	ecovere	d in Fisher	у		
	Salmon Pivo	r at Red Rock Subtotals				65,388	8 43,460					
	Odillion Rive	at Neu Nock Gubtotals			No. Released	00,000	108,848	0.60	276	339	615	0.45
						Group; 3 M	lark Group R					00
										-		
2002	A-1	Salmon River at	PFH	Production	None		49,194		259	356	615	0.42
		Wagonhammer Spring					. 40.404					
		Subtotals			No. Released	,	0 49,194 49,194	0	259	356	615	0.42
					0 Mark Groups		49,194	U	259	330	619	0.42
					o mark Groups							
2001	A-2	Salmon River at	SFH	Production	None		67,950		85	40	125	0.68
		Wagonhammer										
		Subtotals				(	0 67,950					
					No. Released 0 Mark Groups		67,950	0	85	40	125	0.68
	Salmon River	r at Wagonhammer Subt	otals			(	0 117,144					
	ounnon ravo	at tragomiamino. Gab.	.0.0.0		No. Released	`	117,144	0	344	396	740	0.46
					0 Mark Groups		,		• • • • • • • • • • • • • • • • • • • •			
2002	A-1	Salmon River at Lewis 8	PFH	Production	None		43,415		228	314	542	0.42
		Clark sign (North Fork)										
		Subtotals			No. Released	(	0 43,415	^	228	24.4	542	0.40
					No. Released 0 Mark Groups		43,415	0	228	314	542	0.42
					o wark Groups							

Appendix D. Continued.

									Estima	ated No. of I	Fish	
Release Year	Stock and Ocean Age	Release Site	Stock Name <sup>a</sup>	Marking Purpose	Tags		n Released Untagged	Mark Rate	Harvest	Hatchery Returns <sup>b</sup>	Total	Exploitation Rate
Fall 2003-	-Spring 2004	Season, continued.										
2001	A-2	Salmon River at Lewis & Clark Sign (North Fork)	SFH	Production	None		76,182		96	45	141	0.68
		Subtotals					0 76,182					
					No. Released 0 Mark Groups		76,182	0	96	45	141	0.68
	Salmon Rive	r at Lewis and Clark Sign	Subtotals				0 119,597					
	oumon ravo	at zomo ana otam orgin	oubtota.o		No. Released 0 Mark Groups		119,597	0	324	359	683	0.47
2002	A-1	Salmon River Hammer Creek	PFH	Production	None		179,722		899	1,302	2,201	0.41
		Subtotals					0 179,722					
					No. Released 0 Mark Groups		179,722	0	899	1,302	2,201	0.41
2001	A-2	Salmon River at Hammer	PFH	Production	CWT 10/54/70°	20.08	10		11	12	23	0.48
		Creek			CWT 10/55/70°	22,23			63	12	75	0.84
					CWT 10/56/70°	21,96	9		43	13	56	0.77
					None		111,097		202	65	267	0.76
		Subtotals				64,28	,					
					No. Released	varinai 2 Mi	175,385	0.37	319	102	421	0.76
					3 Wark G	roups; 3 wa	ark Groups R	ecovere	a in Fisher	у		
	Salmon Rive	r at Hammer Creek Subtot	als			64,28	8 290,819					
					No. Released 3 Mark G	roups; 3 Ma	355,107 ark Groups R	0.18 ecovere	1,218 d in Fisher	1,404 y	2,622	2 0.46
2002	A-1	Little Salmon River at Stinky Springs	PFH	Production	None		54,000		270	391	661	0.41
		Subtotals					0 54.000					
					No. Released 0 Mark Groups		54,000	0	270	391	661	0.41
2001	A-2	Little Salmon River at Stinky Springs	PFH	Production	None		430,210		783	253	1,036	0.76
		Subtotals			No. Released 0 Mark Groups		0 430,210 430,210	0	783	253	1,036	0.76

Appendix D. Continued.

									Estima	ated No. of	Fish	
Release Year	Stock and Ocean Age	Release Site	Stock Name <sup>a</sup>	Marking Purpose	Tags		n Released Untagged	Mark Rate	Harvest	Hatchery Returns <sup>b</sup>	Total	Exploitation Rate
Fall 2003-	-Spring 2004	Season, continued.										
2002	B-1	Little Salmon River at Stinky Springs	DNFH	Production	None		105,167		0	0	0	
		Subtotals			No. Released 0 Mark Groups		0 105,167 105,167	0	0	0	0	
2001	B-2	Little Salmon River at	DNFH	Production	CWT 10/51/70°	21,67			39	0	39	1.00
		Stinky Springs			CWT 10/52/70°	21,57			41	0	41	1.00
					CWT 10/53/70°	13,35			20	0 0	20	1.00
		Subtotala			None	EG E0	1,750		3	Ü	3	1.00
		Subtotals			No. Released	56,59	6 1,750 58,346	0.97	103	0	103	1.00
						roups; 3 Ma	ark Groups R			-	103	1.00
2000	Б.2	Little Colmon Divor et	DNELL	Cambrilla eti ara	CWT 10/36/05°	60.04	4		0	•	0	
2000	B-3	Little Salmon River at	DNFH	Contribution	None	63,24	4 232,640		0 0	0 0	0 0	
		Stinky Springs			None		232,040		U	U	U	
		0			BWT 10/00/00	4,63			0	0	0	
		Subtotals			No. Released	67,88	300,523	0.23	0	0	0	
					2 Mark G	roups; 0 Ma	ark Groups R	ecovere	d in Fisher	у		
	Little Salmon	River at Stinky Springs	Subtotals			124,47			4.450		4.000	
					No. Released 5 Mark G	roups; 3 Ma	948,246 ark Groups R	0.13 ecovere	1,159 d in Fisher	644 y	1,800	0.64
2000	B-3	South Fork Clearwater River at Mill Creek	DNFH	Production	None <sup>e</sup>		19,556		No	Estimates M	lade	
	South Fork C	learwater River at Mill Ci	reek Subto	tals			0 19,556					
					No. Released 0 Mark Groups		19,556					
2000	B-3	South Fork Clearwater River at Meadow Creek	DNFH	Supplementation; Late Eggs	None <sup>e</sup>		19,557		No	Estimates M	lade	
	South Fork C	learwater River at Meado	ow Creek S				0 19,557					
					No. Released 0 Mark Groups		19,557					
2000	B-3	Red River	DNFH	Supplementation; Late Eggs	None <sup>e</sup>		30,480		No	Estimates M	lade	
	Red River Su	btotals			No. Released 0 Mark Groups		0 30,480 30,480					

									Estima	ated No. of		
Release Year	Stock and Ocean Age	Release Site	Stock Name <sup>a</sup>	Marking Purpose	Tags	No. of Fish Tagged		Mark Rate	Harvest	Hatchery Returns <sup>b</sup>	Total	Exploitation Rate
Fall 2003-	-Spring 2004	Season, continued.										
2000	B-2	American River	DNFH	Supplementation; Late Eggs	None <sup>c,e</sup>		96,187		No	Estimates M	lade	
	American Riv	ver Subtotals		33	No. Released 0 Mark Groups	0	96,187 96,187					
2000	B-3	Newsome Creek	DNFH	Supplementation; Late Eggs	None <sup>c,e</sup>		100,078		No	Estimates M	lade	
	Newsome Cr	eek Subtotals		33	No. Released	0	100,078 100,078					
Releases	from Magic V	alley Fish Hatchery										
		"A" Stock Releases (with adipose fin clips)			No. Released 18 Mark	386,713 Groups; 18 l	2,403,714 2,790,427 Mark Group	0.14 s Recove	7,278 ered in Fisl	8,658 hery	15,936	0.46
		"B" Stock Releases (with adipose fin clips)			No. Released 16 Mark	Groups; 11 l		0.17 s Recove	435 ered in Fisl	39 hery	474	0.92
	Total Re	leases with Adipose Fin (	Clips		No. Released 34 Mark	716,319 Groups; 29 I	4,027,316 4,743,635 Mark Group	0.15 s Recove	7,713 ered in Fisl	8,697 hery	16,410	0.47
	Release	es without Adipose Fin C	lips			0	342,100					
		·			No. Released 0 Mark Groups		342,100					
				CLEARWATE	R FISH HATCHER	Y RELEASES	;					
2002 2002	B-1 B-1	Red River Red River Subtotals	DNFH DNFH	LSRCP Production Supplementation	None None <sup>e,f</sup>	0	31,306 150,010 <b>181,316</b>		12 No	0 Estimates M	12 lade	1.00
					No. Released 0 Mark Groups		181,316	0	12	0	12	1.00
2001	B-2	Red River	DNFH	Production Supplementation;	None None <sup>e,f</sup>		99,924 149,346		145 No	0 Estimates M	145 lade	1.00
		Subtotals		Late eggs	No. Released 0 Mark Groups	0	249,270 249,270	0	145	0	145	1.00

Appendix D. Continued.

										Estima	ated No. of I	ish	
Release Year	Stock and Ocean Age	Release Site	Stock Name <sup>a</sup>	Marking Purpose	Tags	No. of Fis Tagged		eleased itagged	Mark Rate	Harvest	Hatchery Returns <sup>b</sup>	Total	Exploitation Rate
Fall 2003-		Season, continued.		•	<u> </u>								
	B-3	_	DNEU	Non Davida Triba	None <sup>c,e</sup>			120,000		Na	□atiat N		
2000	B-3	Red River Rearing Ponds	DINFH	Nez Perce Tribe Release	None			139,662		NO	Estimates M	ade	
		Subtotals			No. Released		0	139,662 139,662					
					0 Mark Groups			100,002					
	Red River Su	btotals					0	570,248					
					No. Released 0 Mark Groups			570,248	0	157	0	157	1.00
2002	B-1	North Fork Clearwater River at Ahsahka ramp	DNFH	Surplus Production	None			63,957		24	0	24	1.00
	North Fork C	learwater River at Ahsahk	a ramp S	ubtotals	No. Released		0	63,957 63,957	0	24	0	24	1.00
					0 Mark Groups			05,557	Ū	24	Ū	24	1.00
				NPT									
2002	B-1	South Fork Clearwater River at Meadow Creek	DNFH	Supplementation	None <sup>e</sup>			26,460		No	Estimates M	ade	
		Subtotals			No Bolomod		0	26,460					
					No. Released 0 Mark Groups			26,460					
2001	B-2	South Fork Clearwater River at Meadow Creek	DNFH	Supplementation; Late eggs	None <sup>e</sup>			23,459		No	Estimates M	ade	
		Subtotals					0	23,459					
					No. Released 0 Mark Groups			23,459					
	South Fork C	learwater River at Meadov	w Creek S	Subtotals	No. Released		0	49,919					
					0 Mark Groups			49,919				-	
2002	B-1	South Fork Clearwater	DNFH	NPT Supplementation	None <sup>e</sup>			34,000		No	Estimates M	ade	
2002	υ,	River at Mill Creek	514111	Cappiomontation	140110					140	Louinated W	uu0	
		Subtotals			No. Released		0	34,000 34,000					
					0 Mark Groups			J 2,000					

Appendix D. Continued.

									Estima	ated No. of I	Fish	
Release Year	Stock and Ocean Age	Release Site	Stock Name <sup>a</sup>	Marking Purpose	Tags		n Released Untagged	Mark Rate	Harvest	Hatchery Returns <sup>b</sup>	Total	Exploitation Rate
Fall 2003-	-Spring 2004	Season, continued.										
2001	B-2	South Fork Clearwater	DNFH	Supplementation;	None <sup>e</sup>		24,549		No	Estimates M	ade	
		River at Mill Creek		Late eggs			0 24,549					
					No. Released 0 Mark Groups		24,549					
	South Fork C	learwater River at Mill Cre	ek Subto	otals			0 58,549					
					No. Released 0 Mark Groups		58,549					
2002	B-1	South Fork Clearwater	DNFH	LSRCP Production	CWT 10/48/10	21,10	4		9	0	9	1.00
		River at Red House Hole			CWT 10/48/11	22,32			0	0	0	
					CWT 10/48/12	22,62	9		16	0	16	1.00
					None		72,709		28	0	28	1.00
		Subtotals				66,06						
					No. Released		138,769	0.48	53	0	53	1.00
					3 Mark G	roups; 2 Ma	ark Groups R	ecovere	d in Fisher	У		
2001	B-2	South Fork Clearwater	DNFH	Production	CWT 10/48/26 <sup>c</sup>		20.736		90	0	90	1.00
		River at Red House Hole			CWT 10/48/27°		22,076		88	0	88	1.00
					CWT 10/48/28°		20,914		51	0	51	1.00
					None		34,040		122	0	122	1.00
		Subtotals					0 97,766					
					No. Released		97,766	0	351	0	351	1.00
					3 Mark G	roups; 3 Ma	ark Groups R	ecovere	d in Fisher	У		
2000	B-3	South Fork Clearwater	DNFH	Contribution	CWT 10/54/26 <sup>c</sup>	32,10	1		4	0	4	1.00
		River at Red House Hole			CWT 10/54/08°	31,19			12	0	12	1.00
					None	, -	248,119		63	0	63	1.00
		Subtotals				63,29	7 248,119					
					No. Released		311,416	0.20	79	0	79	1.00
					2 Mark G	roups; 2 Ma	ark Groups R	ecovere	d in Fisher	у		
	South Fo	rk Clearwater River Subto	otals			129,35	7 418,594					
					No. Released	,	547,951	0.24	483	0	483	1.00
					8 Mark G	roups; 7 Ma	ark Groups R		d in Fisher			
2002	B-1	Clear Creek	DNFH	LSRCP Production	None		40,499		0	23	23	
2002	D- I	Subtotals	רו זויום	LONGE FIUUUCIIOII	INOTIC		0 40,499		U	23	23	
					No. Released 0 Mark Groups		40,499	0	0	23	23	

Appendix D. Continued.

Tags   Tags										Estima	ated No. of	Fish	
B-2   Clear Creek   DNFH   Supplementation; Late eggs   None   21,439   76,101   280   99   379   0			Release Site		•	Tags				Harvest		Total	Exploitation Rate
Cate eggs	Fall 2003	S-Spring 2004	Season, continued.										
Cate eggs	2001	B-2	Clear Creek	DNFH	Supplementation:	CWT 10/48/02	21.439	)		79	28	107	0.74
No. Released 1 Mark Group; 1 Mark Groups Recovered in Fishery   1 Mark Groups Recovered in Fishery   2000   B-3   Clear Creek   DNFH   Contribution   CWT 10/54/19°   43,375   140,482   0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	_00.	- <del>-</del>		2			,	76,101					0.74
1 Mark Groups Recovered in Fishery   2000   B-3   Clear Creek   DNFH   Contribution   CWT 10/54/19 <sup>c</sup>   43,375   0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			Subtotals			No Pologod	21,439	,		250	127	406	0.74
None   140,482   0 0 0 0							Group; 1 Ma	- ,				400	0.74
None   140,482   0 0 0 0	2000	R-3	Clear Creek	DNEH	Contribution	CWT 10/54/19 <sup>c</sup>	<b>∆</b> 3 375	;		0	0	0	
No. Released 1 83,857   0.24   0   0   0   0	2000	Б-3	Olcar Orcck	DIVITI	Contribution		40,070						
Clear Creek Subtotals			Subtotals				43,375	-, -					
Clear Creek Subtotals							Group: 0 Ma	,		-	-	0	
No. Released   321,896   0.20   359   150   509   0.20   2   Mark Group Recovered in Fishery		Cloar Crook	Subtotale				• *	·		•	•		
2002 B-1 Crooked River Ponds DNFH Supplementation BWT 10/00/00 <sup>d,e</sup> 19,918 No Estimates Made None <sup>e</sup> 82,219 No Estimates Made None <sup>e</sup> 19,918 82,219 No. Released 102,137 1 Mark Group; 0 Mark Groups Recovered in Fishery  2000 B-3 Crooked River Ponds DNFH Nez Perce Tribe Release  Subtotals  Subtotals  No. Released 0 100,331 No Estimates Made None <sup>c,e</sup> 100,331 No Estimates Made None <sup>c,e</sup> 100,331 No Estimates Made None None None None None None None None		Clear Cleek	Subtotais			No. Released	04,014			359	150	509	0.71
None   None						2 Mark	Groups; 1 M	ark Group R	ecovere	d in Fisher	y		
Subtotals	2002	B-1	Crooked River Ponds	DNFH	Supplementation		19,918						
No. Released   102,137   1 Mark Groups   100,331   No Estimates Made			Cubtotala			None	40.040			No	Estimates M	lade	
1 Mark Group; 0 Mark Groups Recovered in Fishery  2000 B-3 Crooked River Ponds DNFH Nez Perce Tribe Release  Subtotals  O 100,331  No. Released 0 Mark Groups  Crooked River Ponds Supplementation Subtotals  19,918 182,550			Subtotals			No. Released	19,910						
Release  Subtotals  0 100,331  No. Released 100,331 0 Mark Groups  Crooked River Ponds Supplementation Subtotals  19,918 182,550							Group; 0 Ma	,		d in Fisher	y		
No. Released 100,331 0 Mark Groups  Crooked River Ponds Supplementation Subtotals 19,918 182,550	2000	B-3	Crooked River Ponds	DNFH		None <sup>c,e</sup>		100,331		No I	Estimates N	lade	
0 Mark Groups  Crooked River Ponds Supplementation Subtotals 19,918 182,550			Subtotals				0	,					
								100,331				-	
No Released 202 468		Crooked Rive	er Ponds Supplementati	ion Subtota	Is		19,918	182,550					
						No. Released		202,468			-		
1 Mark Group; 0 Mark Groups Recovered in Fishery						1 Mark	Group; 0 Ma	rk Groups R	ecovere	d in Fisher	у		
	2002	B-1	Crooked River Ponds	DNFH	LSRCP Production	CWT 10/63/70				16	0	16	1.00
CWT 10/65/70 9,403 0 0 0							9,403			-	•	-	
		Crooked Rive	or Ponde Subtotale			None	21 976				-		1.00 <b>1.00</b>
No. Released 33,890		OTOOKEG TAIV	er i orius oubtotais			No. Released	21,370			20	·	20	1.00
2 Mark Groups; 1 Mark Group Recovered in Fishery						2 Mark	Groups; 1 M	ark Group R	ecovere	d in Fisher	y		
2001 B-2 Crooked River DNFH Supplementation BWT 10/00/00 <sup>c,e</sup> 20,000 No Estimates Made	2001	B-2	Crooked River	DNFH	Supplementation	BWT 10/00/00 <sup>c,e</sup>	20,000			No	Estimates M	lade	
None <sup>e</sup> 76,632 No Estimates Made						None <sup>e</sup>		,		No	Estimates M	lade	
Crooked River Supplementation Subtotals 20,000 76,632 No. Released 96,632		Crooked Rive	er Supplementation Sub	totais		No Released	20,000						
1 Mark Group; 0 Mark Groups Recovered in Fishery							Group; 0 Ma			d in Fisher	y		

Appendix D.	Continued.
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									Estima	ated No. of I	Fish	
Release	Stock and	Dalassa Cit	Stock	Marking	T	No. of Fish		Mark	Hamiss	Hatchery	Tatal	Exploitation
Year	Ocean Age	Release Site	Name <sup>a</sup>	Purpose	Tags	Tagged l	Intagged	Rate	Harvest	Returns <sup>b</sup>	Total	Rate
Fall 2003-	-Spring 2004	Season, continued.										
2001	B-2	Crooked River	DNFH	Production	CWT 10/48/23°	22,679			20	0	20	1.00
					CWT 10/48/24 <sup>c</sup>	22,010			67	0	67	1.00
					CWT 10/48/25°	21,977			10	0	10	1.00
					None		82,249		120	0	120	1.00
	<b>Crooked Rive</b>	er Subtotals				66,666						
					No. Released		148,915		217	0	217	1.00
					3 Mark G	roups; 3 Mar	k Groups R	ecovere	d in Fisher	у		
				NPT								
2002	B-1	Lolo Creek	DNFH	Supplementation	None <sup>e</sup>		18,000		No	Estimates M	lade	
		Subtotals				0	,					
					No. Released		18,000					
					0 Mark Groups							
2001	B-2	Lolo Creek	DNFH	Supplementation;	None <sup>e</sup>		48,523		No	Estimates M	lade	
				Late eggs								
		Subtotals				0	,					
					No. Released		48,523					
					0 Mark Groups							
	Lolo Creek S	ubtotals				0	66,523					
					No. Released	•	66,523					
					0 Mark Groups		, .					
Relea	ses from Clea	arwater Fish Hatchery										
		"B" Stock Releases				282,813	965,026					
		(with adipose fin clips)			No. Released	•	1,247,839	0.23	1,265	150	1,415	0.89
		. ,			15 Mark Gr	oups; 12 Mar	k Groups R	ecovere	d in Fisher	у	•	
	Release	es without Adipose Fin C	Clips			39,918	873,191					
			•		No. Released	,	913,109					
					2 Mark G	roups; 0 Mar	k Groups R	ecovere	d in Fisher	у		

Annen	vib	$\Box$	Continued.
ADDELL	uix	υ.	Continued.

									Estima	ated No. of I	Fish	
Release	Stock and	Pologog Sita	Stock Name <sup>a</sup>	Marking	Togo		h Released	Mark	Hamiost	Hatchery		Exploitation
Year	Ocean Age	Release Site	Name	Purpose	Tags	Tagged	Untagged	Rate	Harvest	Returns	Total	Rate
Fall 2003-	Spring 2004 Se	ason, continued.										
Total Retu	ırns for Run Yea	ar 2003-2004										
	Releases	s with Adipose Fin C	lips			1,101,17	78 6,379,267					
					No. Released		7,480,445	0.15	11,944	11,252	23,196	0.51
					53 Mark Gr	oups; 44 M	ark Groups R	Recovere	d in Fisher	у		
	Releases	without Adipose Fin	Clips			57,49	99 2,170,965					
					No. Released		2,228,464					
					3 Mark G	roups: 0 M	ark Groups R	ecovere	d in Fisher	v		

SFH = Sawtooth Hatchery stock; HC = Hells Canyon stock; PFH = Pahsimeroi Fish Hatchery stock; DNFH = Dworshak National Fish Hatchery stock; EF = East Fork Salmon

Includes off-site escapement and strays to hatchery racks.

Release group includes fish marked with passive integrated transponder (PIT) tags.

BWT = blank tag.

Steelhead released without adipose fin clip. These fish were not available for harvest in the general fishery. Calculation of marking rate does not include numbers of fish released with intact adipose fins.

Summary of 4- and 5-year-old A-stock steelhead recovered in the Idaho fishery, 2001–2002, 2002–2003, and 2003–2004. Appendix E.

Release Year	No. of Fish Released	Release Site	Hatchery Rearing	Marks	No. of Tags Recovered
2001-200	)2 Season				
1998	19,534	Sawtooth Hatchery	HNFH <sup>a</sup>	CWT 10/45/04	1
1998	19,891	Sawtooth Hatchery	HNFH	CWT 10/45/50	1
1998	9,701	Sawtooth Hatchery	HNFH	CWT 10/46/34	4
Seaso	n Total	3 Marked Groups			6
2002-200	03 Season				
1999	10,003	Hazard Creek	HNFH	CWT 10/46/37	1
1999	60,453	Salmon River at Shoup Bridge	$MVFH^{b}$	CWT 10/54/05	1
1999	60,343	Salmon River at Red Rock	MVFH	CWT 10/54/06	1
Seaso	n Total	3 Marked Groups			3
2003-200	04 Season				
1999	20,133	Sawtooth Hatchery	HNFH	CWT 10/53/01	1
1999	60,453	Salmon River at Shoup Bridge	MVFH	CWT 10/54/05	1
2000	62,081	Lemhi River	MVFH	CWT 10/36/06	1
2000	46,866	Salmon River at Shoup Bridge	MVFH	CWT 10/54/14	1
2000	50,300	Salmon River at Tunnel Rock	MVFH	CWT 10/54/15	1
Seaso	n Total	5 Marked Groups			5

HNFH = Hagerman National Fish Hatchery. MVFH = Magic Valley Fish Hatchery.

Prepared by:	Approved by:
	IDAHO DEPARTMENT OF FISH AND GAME
Jon Hansen Senior Fishery Research Biologist	Sam Sharr Anadromous Fisheries Coordinator
	Edward B. Schriever, Chief Bureau of Fisheries