FISHERY RESEARCH

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

Project Progress Report

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

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TABLE OF CONTENTS

Page

ABSTRACT....1
INTRODUCTION....3
OBJECTIVES....3
DESCRIPTION OF THE STUDY AREA....4
METHODS....6
Creel Survey....6
Data Analysis....6
Escapement at Dams....8
RESULTS....8
Creel Survey....8
Biodata....8
Harvest....10
Steelhead Counts at Hydro Projects....25
DISCUSSION....29
RECOMMENDATIONS....33
ACKNOWLEDGMENTS....34
LITERATURE CITED....35
APPENDICES....37

LIST OF TABLES

Page

Table 1. River section location codes for steelhead fisheries surveyed for the LSRCP program in Idaho. 4

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. 11

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. 13

Table 4. Statewide harvest estimates of steelhead by river section and month by Idaho licensed anglers, fall 2001–spring 2004. 16

Table 5. Fishery sample rates by river section and month, fall 2001–spring 2004. 19

Table 6. Idaho steelhead sport fishery statistics by rearing facility for Lower Snake River Compensation Plan hatchery fish, fall 2001–spring 2004. 24

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. 26

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. 30

LIST OF FIGURES

Figure 1. Map of steelhead harvest areas surveyed for the Lower Snake River Compensation Program by Idaho Department of Fish and Game. 5

LIST OF APPENDICES

Page

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. 38

Appendix B. Age composition and mean fork length (±95% confidence intervals) of known-age, 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. 50

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. 56

Appendix D. Summary of harvest estimates and hatchery returns of steelhead produced by Lower Snake River Compensation Plan hatchery facilities, 2001–2004.....76

Appendix E. Summary of 4- and 5-year-old A-stock steelhead recovered in the Idaho fishery, 2001–2002, 2002–2003, and 2003–2004. 122

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.

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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

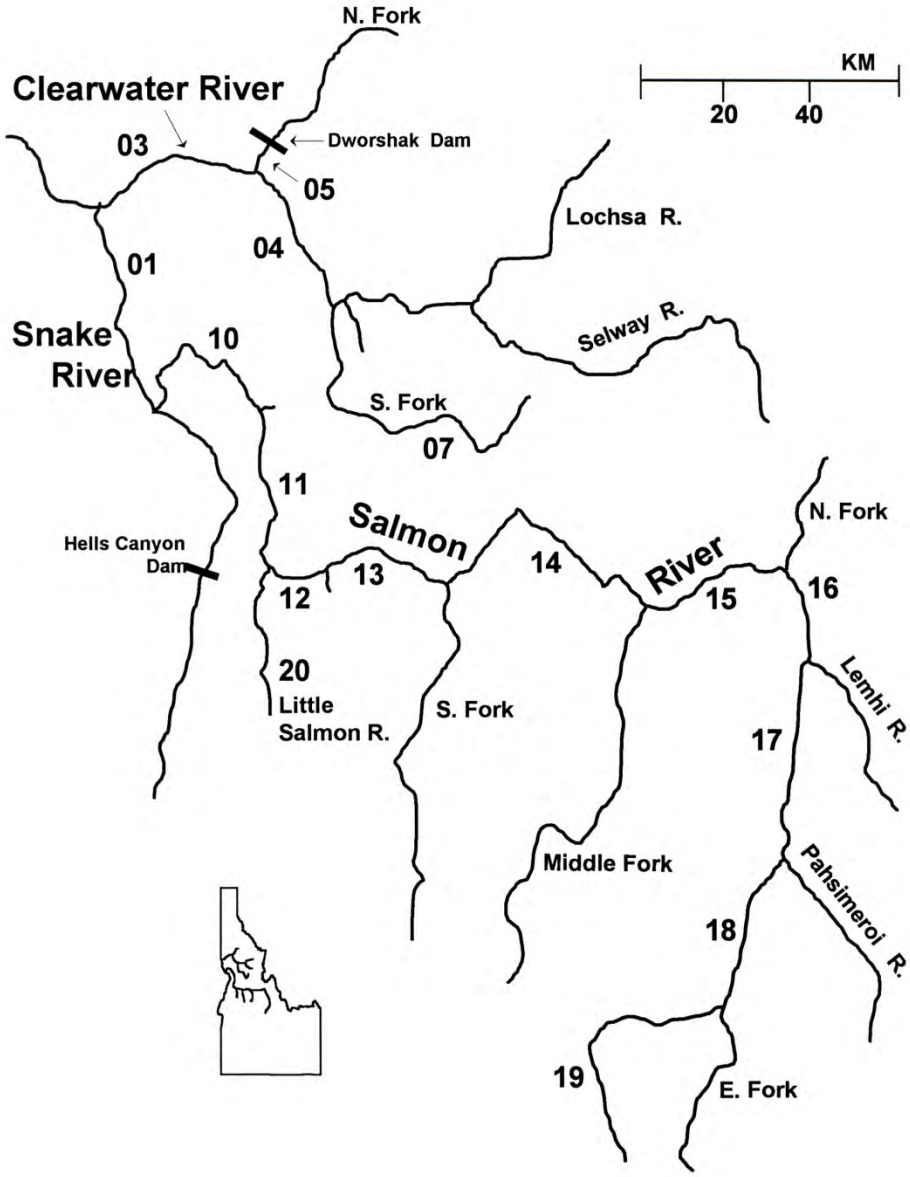

Figure 1. Map of steelhead harvest areas surveyed for the Lower Snake River Compensation Program by Idaho Department of Fish and Game.

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 http://www.nwp.usace.army.mil/op/fishdata/home.asp.

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 1-ocean 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 B-stock 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).

Harvest

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.

Fishing Season River	No. Anglers	Total Hours Fished	Steelhead Kept	Steelhead Released		Total Catch	Hours Per Fish Caught	Hours Per Fish Kept	Checked For CWT	Snouts Taken	Snouts Not Taken
				Hatchery	Wild[a]						
Fall 2001											
Snake River	994	5,425	382	55	253	690	8	14	316	39	0
Snake River WDFW data[b]	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[b]	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 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	1,419	8,534.5	442	36	329	807	11	19	390	70	2
Snake River WDFW data[b]	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.

Fishing Season River	No. Anglers	Total Hours Fished	Steelhead Kept	Steelhead Released		Total Catch	Hours Per Fish Caught	Hours Per Fish Kept	Checked For CWT	Snouts Taken	Snouts Not Taken
				Hatchery	Wild[a]						
Spring 2003											
Clearwater River	4,076	20,095.5	1,388	380	1,686	3,454	6	14	1,242	98	4
Salmon River	7,251	49,476.8	2,506	1,651	3,230	7,387	7	20	2,296	265	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	721	5,042	424	78	321	823	6	12	297	48	1
Snake River WDFW data[b]	163	963.5	131	6	131	256	4	7	131	18	--
Clearwater River	2,264	9,011.5	552	58	255	865	10	16	522	28	8
Salmon River	7,886	59,054.3	2,335	525	1,605	4,465	13	25	2,088	141	5
Fall Totals	11,034	74,071.3	3,442	667	2,312	6,409	12	22	3,038	235	14
Spring 2004											
Snake River WDFW data[b]	55	346.3	27	3	44	74	5	13	27	2	--
Clearwater River	4,365	19,500	807	207	1,074	2,088	9	24	708	54	1
Salmon River	9,037	55,888	2,594	1,183	2,132	5,909	9	22	2,261	128	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**

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

Table 3. Continued.

Run Year[a]	Sex	Sample Size	Male-Female Ratio	Age Composition by Stock-Ocean Age			Mean Fork Length (cm) by Stock-Ocean Age		
2002-2003									
	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 Totals	Males	68		19 (28%)	48 (71%)	1 (1%)			
	Females	81		17 (21%)	63 (78%)	1 (1%)			
	Total	149	1:1.2	36 (24%)	111 (75%)	1 (1%)			
				Hagerman National Fish Hatchery					
		N		A-1 N (%)	A-2 N (%)		A-1	A-2	
2001-2002[c]	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[d]									
	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[a]	Sex	Sample Size	Male-Female Ratio	Age Composition by Stock-Ocean Age			Mean Fork Length (cm) by Stock-Ocean Age		
Hatchery	Males	281		236(84%)	45(16%)				
		369							
Totals	Females			256(69%)	113(31%)				
					158(24%)				
	Total	650	1:1.3	492(76%)					
				Clearwater Fish Hatchery					
				B-1	B-2	B-3	B-1	B-2	B-3
		N		N (%)	N (%)	N (%)			
2001-2002	Males	14		4 (29%)	9 (64%)	1 (7%)	75±5	89±3	78
	Females	26		2 (8%)	22 (84%)	2 (8%)	74±21	84±2	90±4
	Subtotal	40	1:1.9	6 (15%)	31 (78%)	3 (7%)	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%)			

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

[b] 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.

[c] 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.

[d] 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[a,b]					
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	0	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[a,b]					
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[a,b]					
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[a,b]					
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
Statewide Totals	**7,684**	**12,323**	**15,043**	**7,151**	**42,201**

Table 4. Continued.

Fall 2003 Steelhead Harvest 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 Harvest Estimates[a,b]					
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**

[a] Excludes river sections not surveyed for LSRCP.
[b] Data from Thomas J. McArthur, IDFG.

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

Section	Statistics	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Total
		Fishery Statistics by Month								
		Fall 2001–Spring 2002								
01										
	No. Fish Checked[a]	26	211	243	60	13	12	--	--	565
	Estimated Harvest[b]	370	2,215	2,799	1,555	684	225	77	54	7,979
	Sample Rate	0.070	0.095	0.087	0.039	0.019	0.053	0	0	0.071
03 & 05										
	No. Fish Checked	4	250	293	147	323	351	194	--	1,562
	Estimated 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										
	No. Fish Checked	--	--	--	--	1	1	56	--	58
	Estimated 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										
	No. Fish Checked	--	--	--	--	--	--	173	76	249
	Estimated Harvest	0	33	101	0	299	81	963	892	2,369
	Sample Rate	--	0	0	--	0	0	0.180	0.085	0.105
10										
	No. Fish Checked	0	1	1	--	--	--	--	--	2
	Estimated 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. Fish Checked	1	15	17	--	--	16	75	--	124
	Estimated Harvest	101	1,868	1,435	306	670	825	1,494	891	7,590
	Sample Rate	0.010	0.008	0.012	0	0	0.019	0.050	0	0.016
12										
	No. Fish Checked	1	239	186	24	--	78	238	--	766
	Estimated Harvest	14	780	832	453	171	478	897	85	3,710
	Sample Rate	0.071	0.306	0.224	0.053	0	0.163	0.265	0	0.206
13										
	No. Fish Checked	--	32	27	--	--	3	19	--	81
	Estimated 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										
	No. Fish Checked	--	168	487	--	--	24	345	--	1,024
	Estimated Harvest	29	885	1,665	158	350	439	1,364	109	4,999
	Sample Rate	0	0.190	0.292	0	0	0.055	0.253	0	0.205
15										
	No. Fish Checked	--	961	2,405	0	--	64	1,104	39	4,573
	Estimated Harvest	101	3,102	6,596	638	285	637	3,924	239	15,522
	Sample Rate	0	0.310	0.365	0	0	0.100	0.281	0.163	0.295
16										
	No. Fish Checked	--	46	172	15	--	36	310	42	621
	Estimated 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.

Section / Statistics	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Total
	Fishery Statistics by Month								
Fall 2001–Spring 2002, continued.									
17									
No. Fish Checked	--	--	12	0	--	0	250	399	661
Estimated Harvest	0	0	590	0	161	227	995	2,340	4,313
Sample Rate	--	--	0.020	--	0	0	0.251	0.171	0.153
18									
No. Fish Checked	--	1	--	--	--	--	58	231	290
Estimated Harvest	0	0	14	0	0	41	638	2,651	3,344
Sample Rate	--	--	0	--	--	0	0.091	0.087	0.087
19									
No. Fish Checked	--	--	--	--	--	--	2	641	643
Estimated Harvest	39	14	59	0	14	27	384	4,076	4,613
Sample Rate	0	0	0	--	0	0	0.005	0.157	0.139
20									
No. Fish Checked	0	8	10	--	--	9	62	440	529
Estimated Harvest	27	284	340	226	453	379	766	4,866	7,341
Sample Rate	0	0.028	0.029	0	0	0.024	0.081	0.090	0.072
Total Steelhead Checked									11,748
Total Estimated Steelhead Harvested									93,429[c]
Annual Sample Rate									0.126
Fall 2002—Spring 2003									
01									
No. Fish Checked[b]	130	166	187	17	0	0	0	0	500
Estimated Harvest	303	1,855	1,089	378	515	286	110	70	4,606
Sample Rate	0.429	0.089	0.172	0.045	0	0	0	0	0.109
02									
No. Fish Checked[b]	--	--	--	1	--	--	--	--	1
Estimated Harvest	13	1,338	1,332	633	409	193	97	14	4,029
Sample Rate	0	0	0	0.002	0	0	0	0	0.0002
03 & 05									
No. Fish Checked	9	93	213	115	299	205	22	4	960
Estimated Harvest	1,292	3,448	4,268	2,944	2,870	4,236	2,286	458	21,802
Sample Rate	0.007	0.027	0.050	0.039	0.104	0.048	0.010	0.009	0.044
04									
No. Fish Checked	0	0	0	0	9	13	0	0	22
Estimated Harvest	0	90	183	186	522	841	525	62	2,409
Sample Rate	--	0	0	0	0.017	0.015	0	0	0.009
07									
No. Fish Checked	0	0	0	0	0	247	371	72	690
Estimated Harvest	13	27	27	13	193	1,872	2,797	958	5,900
Sample Rate	0	0	0	0	0	0.132	0.133	0.075	0.117
10									
No. Fish Checked	0	2	6	4	0	0	0	0	12
Estimated Harvest	100	1,251	955	561	186	82	69	0	3,204
Sample Rate	0	0.002	0.006	0.007	0	0	0	--	0.004

Table 5. Continued.

Section	Statistics	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Total
		Fishery Statistics by Month								
		Fall 2002—Spring 2003, continued.								
11										
	No. Fish Checked	0	48	31	0	0	17	7	0	103
	Estimated Harvest	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										
	No. Fish Checked	--	474	306	--	--	--	348	2	1,130
	Estimated Harvest	197	2,404	2,118	749	415	1,287	1,400	26	8,596
	Sample Rate	0	0.197	0.144	0	0	0	0.249	0.077	0.131
16										
	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
17										
	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
18										
	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
	Estimated Harvest	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	6,336
									Total Estimated Steelhead Harvested	81,406
									Annual Sample Rate	0.078

Table 5. Continued.

Section	Statistics	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Total
		Fishery Statistics by Month								
		Fall 2003—Spring 2004								
01										
	No. Fish Checked[b]	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
02										
	No. Fish Checked	1	--	--	--	--	--	--	--	1
	Estimated Harvest	81	1,002	963	944	307	121	209	314	3,941
	Sample Rate	0.012	0	0	0	0	0	0	0	0.0003
03 & 05										
	No. Fish Checked	1	147	218	154	151	122	4	--	797
	Estimated Harvest	853	2,946	4,345	3,304	1,787	2,148	727	251	16,361
	Sample Rate	0	0.050	0.050	0.047	0.084	0.057	0.006	0	0.049
04										
	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
07										
	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
10										
	No. Fish Checked	0	8	10	--	--	0	0	--	18
	Estimated Harvest	170	788	625	405	144	89	77	11	2,309
	Sample Rate	0	0.010	0.016	0	0	0	0	0	0.008
11										
	No. Fish Checked	0	12	35	6	--	11	29	--	93
	Estimated Harvest	53	1,040	1,247	535	290	568	588	148	4,469
	Sample Rate	0	0.012	0.028	0.011	0	0.019	0.049	0	0.021
12										
	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
13										
	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
14										
	No. Fish Checked	--	76	118	--	--	--	24	--	218
	Estimated Harvest	27	523	918	306	41	67	177	0	2,059
	Sample Rate	0	0.145	0.129	0	0	0	0.136	--	0.106
15										
	No. Fish Checked	--	625	535	--	--	4	849	0	2,013
	Estimated Harvest	13	2,390	2,280	774	365	660	2,099	97	8,678
	Sample Rate	0	0.262	0.235	0	0	0.006	0.404	0	0.232

Table 5. Continued.

Section	Statistics	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Total
		Fishery Statistics by Month								
		Fall 2003—Spring 2004, continued.								
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 Steelhead Checked	5,916
									Total Estimated Steelhead Harvested	61,567
									Annual Sample Rate	0.096

[a] Includes data collected on the Snake River by Washington Department of Fish and Wildlife.
[b] Estimated harvest data from Statewide Harvest Survey data, Thomas J. McArthur, IDFG (unpublished).
[c] 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.

Mark Groups		No. of Fish						
Released	Recovered in Fishery	Coded wire-Tagged	Released	Mark Rate	Estimated Harvest	Hatchery In-river Returns	Total Returns	Exploitation Rate
Fall 2001—Spring 2002 Season[a]								
Hagerman National Fish Hatchery								
32	30	502,677	2,308,706	0.22	11,591	10,263	21,854	0.53
Magic Valley Fish Hatchery								
32	16	967,687	4,682,561	0.20	9,518	12,881	22,399	0.42
Clearwater Fish Hatchery								
12	9	295,152	1,784,067	0.17	2,422	2,789	5,211	0.46
All LSRCP Hatchery, Combined								
76	55	1,765,516	8,775,334	0.20	23,531	25,933	49,464	0.48
Fall 2002—Spring 2003 Season[a]								
Hagerman National Fish Hatchery								
15	14	293,295	1,882,715	0.16	7,127	3,173	10,300	0.69
Magic Valley Fish Hatchery								
39	27	1,004,508	4,867,871	0.21	16,522	9,640	26,162	0.62
Clearwater Fish Hatchery								
15	5	298,375	1,530,423	0.19	5,081	1,706	6,787	0.75
All LSRCP Hatchery, Combined								
69	46	1,596,178	8,281,009	0.19	28,730	14,519	43,249	0.66
Fall 2003—Spring 2004 Season[a]								
Hagerman National Fish Hatchery								
4	3	102,046	1,488,971	0.07	2,966	2,405	5,371	0.55
Magic Valley Fish Hatchery								
34	29	716,319	4,743,635	0.15	7,713	8,697	16,410	0.47
Clearwater Fish Hatchery								
15	12	282,813	1,247,839	0.23	1,265	150	1,415	0.89
All LSRCP Hatchery, Combined								
53	44	1,101,178	7,480,445	0.15	11,944	11,252	23,196	0.51

[a] 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 ± 5% for all rearing facilities except for 2003-2004, when mark rates for fish reared at all three LSRCP facilities varied by ± 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						Estimated Number in Run[a,b]					
Sample Period	Count at Dam	Sample No.	% of Count at Dam	Natural <78 cm[c]	Hatchery <78 cm	Unclipped Hatchery <78 cm	Natural ≥78 cm	Hatchery ≥78 cm	Unclipped Hatchery ≥78 cm	Natural <78 cm	Hatchery <78 cm	Unclipped Hatchery <78 cm	Natural ≥78 cm	Hatchery ≥78 cm	Unclipped Hatchery ≥78 cm
2001 Run Year															
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	0.8	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.

Sample Period	Count at Dam	Sample No.	% of Count at Dam	Number in Sample: Natural <78 cm[c]	Number in Sample: Hatchery <78 cm	Number in Sample: Unclipped Hatchery <78 cm	Number in Sample: Natural ≥78 cm	Number in Sample: Hatchery ≥78 cm	Number in Sample: Unclipped Hatchery ≥78 cm	Estimated Number in Run[a,b]: Natural <78 cm	Estimated Number in Run[a,b]: Hatchery <78 cm	Estimated Number in Run[a,b]: Unclipped Hatchery <78 cm	Estimated Number in Run[a,b]: Natural ≥78 cm	Estimated Number in Run[a,b]: Hatchery ≥78 cm	Estimated Number in Run[a,b]: Unclipped Hatchery ≥78 cm
2002 Run Year															
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	0.8	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.

Sample Period	Count at Dam	Sample No.	% of Count at Dam	Number in Sample: Natural <78 cm[c]	Hatchery <78 cm	Unclipped Hatchery <78 cm	Natural ≥78 cm	Hatchery ≥78 cm	Unclipped Hatchery ≥78 cm	Estimated Number in Run[a,b]: Natural <78 cm	Hatchery <78 cm	Unclipped Hatchery <78 cm	Natural ≥78 cm	Hatchery ≥78 cm	Unclipped Hatchery ≥78 cm
2003 Run Year															
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**

[a] We used scale sample data from the Oregon Department of Fish and Wildlife to estimate run composition.

[b] 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.

[c] 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[a,b]					
Sample Period	Count at Dam	Sample No.	% of Count at Dam	Natural <78 cm[c]	Hatchery <78 cm	Unclipped Hatchery <78 cm	Natural ≥78 cm	Hatchery ≥78 cm	Unclipped Hatchery ≥78 cm	Natural <78 cm	Hatchery <78 cm	Unclipped Hatchery <78 cm	Natural ≥78 cm	Hatchery ≥78 cm	Unclipped Hatchery ≥78 cm
2001-2002 Run 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	0.8	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[d]	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.

Sample Period	Count at Dam	Sample No.	% of Count at Dam	Number in Sample: Natural <78 cm[c]	Hatchery <78 cm	Unclipped Hatchery <78 cm	Natural ≥78 cm	Hatchery ≥78 cm	Unclipped Hatchery ≥78 cm	Estimated Number in Run[a,b]: Natural <78 cm	Hatchery <78 cm	Unclipped Hatchery <78 cm	Natural ≥78 cm	Hatchery ≥78 cm	Unclipped Hatchery ≥78 cm
2002-2003 Run 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 Steelhead Sampled at Lower Granite Dam in Spring 2003											
3/17-23	2,679		0.0												
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**

Table 8. Continued.

Sample Period	Count at Dam	Sample No.	% of Count at Dam	Number in Sample: Natural <78 cm[c]	Hatchery <78 cm	Unclipped Hatchery <78 cm	Natural ≥78 cm	Hatchery ≥78 cm	Unclipped Hatchery ≥78 cm	Estimated Number in Run[a,b]: Natural <78 cm	Hatchery <78 cm	Unclipped Hatchery <78 cm	Natural ≥78 cm	Hatchery ≥78 cm	Unclipped Hatchery ≥78 cm
2003-2004 Run 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**

[a] 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.

[b] 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.

[c] 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.

Season / River Section	Month	State Collecting Data[a]	No. Anglers	Total Hours Fished	Steelhead Kept	Steelhead Released		Total Catch	No. Checked For CWT	No. Snouts Taken	Snouts Not Taken
						Hatchery	Wild				
Fall 2001–Spring 2002 Season											
Fall 2001											
01	Sep	ID	77	305	8	0	1	9	8	2	0
01	Sep	WA	40	216	18	0	7	25	18	--	--
	Sep Total		117	521	26	0	8	34	26	2	0
01	Oct	ID	480	2,211	174	42	105	321	143	20	0
01	Oct	WA	104	697	68	3	53	124	68	--	--
	Oct Total		584	2,908	242	45	158	445	211	20	0
01	Nov	ID	437	2,909	200	13	147	360	165	17	0
01	Nov	WA	134	808	78	14	47	139	78	--	--
	Nov Total		571	3,717	278	27	194	499	243	17	0
01	**Dec Total**	WA	64	387	60	3	38	101	60	0	0
Section 01 Fall Total			**1,336**	**7,533**	**606**	**75**	**398**	**1,079**	**540**	**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 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 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 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 Total			**3,204**	**16,292**	**493**	**45**	**220**	**758**	**450**	**47**	**2**

Appendix A. Continued.

Season / River Section	Month	State Collecting Data[a]	No. Anglers	Total Hours Fished	Steelhead Kept	Steelhead Released		Total Catch	No. Checked For CWT	No. Snouts Taken	Snouts Not Taken
						Hatchery	Wild				
Fall 2001–Spring 2002 Season, continued.											
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 Spring 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[illegible]	264	41	79	384	242	12	0
03	Mar	ID	258	1,45[illegible]	92	15	41	148	83	9	0
Section 03 Spring Total			**2,781**	**11,412**	**697**	**91**	**207**	**995**	**629**	**35**	**0**

Appendix A. Continued.

Season / River Section	Month	State Collecting Data[a]	No. Anglers	Total Hours Fished	Steelhead Kept	Steelhead Released		Total Catch	No. Checked For CWT	No. Snouts Taken	Snouts Not Taken
						Hatchery	Wild				
Fall 2001–Spring 2002 Season, continued.											
04	Jan	ID	13	30	1	0	1	2	1	0	0
04	Feb	ID	26	91	5	1	1	7	1	0	0
04	Mar	ID	323	1,400	116	18	17	151	56	1	0
Section 04 Spring Total			**362**	**1,521**	**122**	**19**	**19**	**160**	**58**	**1**	**0**
05	Jan	ID	202	768	56	2	5	63	19	0	0
05	Feb	ID	407	1,739	109	32	13	154	109	9	0
05	Mar	ID	527	2,795	131	38	26	195	111	4	0
Section 05 Spring Total			**1,136**	**5,302**	**296**	**72**	**44**	**412**	**239**	**13**	**0**
07	Mar	ID	914	3,097	240	158	81	479	173	18	2
07	Apr	ID	403	1,711	92	70	88	250	76	5	0
Section 07 Spring Total			**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 Spring 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 Spring 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 Spring 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 Spring 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 Spring 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 Spring Total			**1,212**	**5,976**	**414**	**93**	**86**	**593**	**388**	**85**	**1**

Appendix A. Continued.

Season / River Section	Month	State Collecting Data[a]	No. Anglers	Total Hours Fished	Steelhead Kept	Steelhead Released		Total Catch	No. Checked For CWT	No. Snouts Taken	Snouts Not Taken
						Hatchery	Wild				
Fall 2001–Spring 2002 Season, continued.											
17	Feb	ID	3	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	399	23	3
Section 17 Spring Total			**1,462**	**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 Spring 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	7,46	729	601	159	1,489	641	134	31
Section 19 Spring Total			**1,266**	**7,48**	**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 Spring Total			**1,542**	**6,873**	**658**	**254**	**763**	**1,675**	**511**	**34**	**0**
Spring 2002 Total			**17,289**	**102,366**	**6,364**	**3,528**	**2,359**	**12,251**	**5,685**	**710**	**49**
2001-2002 Season Total			**31,989**	**204,931**	**12,791**	**5,990**	**4,800**	**23,581**	**11,748**	**1,581**	**67**

Appendix A. Continued.

Season / River Section	Month	State Collecting Data[a]	No. Anglers	Total Hours Fished	Steelhead Kept	Steelhead Released Hatchery	Steelhead Released Wild	Total Catch	No. Checked For CWT	No. Snouts Taken	Snouts Not Taken
Fall 2002–Spring 2003 Season											
Fall 2002											
01	Sep	ID	803	3,785	133	9	90	232	130	25	0
01	Oct	ID	295	2,123.5	119	12	107	268	108	20	1
01	Oct	WA	122	718.25	58	0	66	124	58	7	0
	Oct Total		417	2,841.75	177	12	173	362	166	27	1
01	Nov	ID	306	2,607.5	187	15	130	332	150	25	1
01	Nov	WA	88	563.25	37	0	38	75	37	6	0
	Nov Total		394	3,170.75	224	15	168	407	187	31	1
01	Dec	ID	9	37.5	1	0	2	3	1	0	0
01	Dec	WA	24	147	16	8	20	44	16	3	--
	Dec Total		33	184.5	17	8	22	47	17	3	0
Section 01 Fall Total			**1,647**	**9,942**	**551**	**44**	**453**	**1,048**	**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	32	9	1	0
03	Oct	ID	409	2004.5	118	25	104	247	93	11	0
03	Nov	ID	950	3,661	220	23	90	333	209	12	2
03	Dec	ID	357	1,466	114	11	67	192	104	5	0
Section 03 Fall Total			**1,827**	**7,651.5**	**461**	**70**	**273**	**804**	**415**	**29**	**2**
05	Nov	ID	11	59	4	0	0	4	4	0	0
05	Dec	ID	99	345	13	4	6	23	11	1	0
Section 05 Fall Total			**110**	**404**	**17**	**4**	**6**	**27**	**15**	**1**	**0**
10	Sep	ID	2	6	0	0	0	0	0	0	0
10	Oct	ID	90	240	2	0	3	5	2	0	0
10	Nov	ID	43	224	9	2	11	22	6	0	0
10	Dec	ID	11	70	4	0	8	12	4	0	0
Section 10 Fall Total			**146**	**540**	**15**	**2**	**22**	**39**	**12**	**0**	**0**
11	Sep	ID	21	67	2	1	3	6	0	0	0
11	Oct	ID	372	1,649	73	19	68	160	48	6	1
11	Nov	ID	312	1,100	45	10	55	110	31	5	0
11	Dec	ID	9	38	0	0	0	0	0	0	0
Section 11 Fall Total			**714**	**2,854**	**120**	**30**	**126**	**276**	**79**	**11**	**1**

Appendix A. Continued.

Season / River Section	Month	State Collecting Data[a]	No. Anglers	Total Hours Fished	Steelhead Kept	Steelhead Released		Total Catch	No. Checked For CWT	No. Snouts Taken	Snouts Not Taken
						Hatchery	Wild				
Fall 2002–Spring 2003 Season, continued.											
12	Sep	ID	38	156	2	0	6	8	2	0	0
12	Oct	ID	1,388	9,960	396	54	264	714	362	48	5
12	Nov	ID	1,438	8,635	277	30	149	456	250	25	3
12	Dec	ID	140	767	29	4	15	48	29	0	0
Section 12 Fall Total			**3,004**	**19,518**	**704**	**88**	**434**	**1,226**	**643**	**73**	**8**
13	Sep	ID	6	32	1	0	9	10	1	0	0
13	Oct	ID	140	1,518	61	12	114	187	58	5	0
13	Nov	ID	87	1,039	65	28	55	148	61	10	0
13	Dec	ID	2	6	1	0	0	1	1	0	0
Section 13 Fall Total			**235**	**2,595**	**128**	**40**	**178**	**346**	**121**	**15**	**0**
14	Oct	ID	475	5,886.5	171	64	325	560	162	21	0
14	Nov	ID	347	4,466	201	65	197	463	195	19	0
Section 14 Fall Total			**822**	**10,352.5**	**372**	**129**	**522**	**1,023**	**357**	**40**	**0**
15	Oct	ID	1,688	17,729.5	679	284	267	1,230	632	86	4
15	Nov	ID	977	9,017	327	79	92	498	306	47	4
Section 15 Fall Total			**2,665**	**26,746.5**	**1,006**	**363**	**359**	**1,728**	**938**	**133**	**8**
16	Oct	ID	292	1,182.5	36	8	5	49	35	7	0
16	Nov	ID	181	601	18	2	2	22	16	1	0
Section 16 Fall Total			**473**	**1,783.5**	**54**	**10**	**7**	**71**	**51**	**8**	**0**
17	Oct	ID	3	4	0	0	0	0	0	0	0
Section 17 Fall Total			**3**	**4**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
20	Sep	ID	4	12	2	0	0	2	2	0	0
20	Oct	ID	71	216	11	2	9	22	7	1	0
20	Nov	ID	216	616	87	24	20	131	87	5	0
20	Dec	ID	19	64	3	3	3	9	3	0	0
Section 20 Fall Total			**310**	**908**	**103**	**29**	**32**	**164**	**99**	**6**	**0**
Fall 2002 Total			**11,962**	**83,320**	**3,533**	**809**	**2,412**	**6,754**	**3,231**	**402**	**21**
Spring 2003											
03	Jan	ID	571	3,603	240	40	129	409	202	22	0
03	Feb	ID	124	814.5	70	25	17	112	64	2	0
03	Mar	ID	39	196	3	7	2	12	3	0	0
Section 03 Spring Total			**734**	**4,613.5**	**313**	**72**	**148**	**533**	**269**	**24**	**0**

Appendix A. Continued.

Season / River Section	Month	State Collecting Data[a]	No. Anglers	Total Hours Fished	Steelhead Kept	Steelhead Released		Total Catch	No. Checked For CWT	No. Snouts Taken	Snouts Not Taken
						Hatchery	Wild				
Fall 2002–Spring 2003 Season, continued.											
04	Feb	ID	19	69	9	0	6	15	9	3	0
04	Mar	ID	85	338	16	1	15	32	13	1	0
Section 04 Spring Total			**104**	**407**	**25**	**1**	**21**	**47**	**22**	**4**	**0**
05	Jan	ID	258	1,365	112	28	21	161	97	12	1
05	Feb	ID	321	2,160	150	65	41	256	141	11	0
05	Mar	ID	104	714	22	2	12	36	19	3	0
05	Apr	ID	50	122	7	6	16	29	4	0	0
Section 05 Spring Total			**733**	**4,361**	**291**	**101**	**90**	**482**	**261**	**26**	**1**
07	Jan	ID	6	38	2	1	1	4	0	0	0
07	Feb	ID	664	2,970	272	68	286	626	247	14	0
07	Mar	ID	1,375	5,959	401	83	830	1,314	371	24	2
07	Apr	ID	460	1,747	84	54	310	448	72	6	1
Section 07 Spring Total			**2,505**	**10,714**	**759**	**206**	**1,427**	**2,392**	**690**	**44**	**3**
11	Feb	ID	82	323	17	7	25	49	17	1	0
11	Mar	ID	67	240	7	1	12	20	7	2	0
Section 11 Spring Total			**149**	**563**	**24**	**8**	**37**	**69**	**24**	**3**	**0**
12	Feb	ID	427	2,040.5	97	11	45	153	82	12	0
12	Mar	ID	346	1,557	23	13	46	82	18	1	1
Section 12 Spring Total			**773**	**3,597.5**	**120**	**24**	**91**	**235**	**100**	**13**	**1**
13	Feb	ID	11	112	7	0	2	9	7	1	0
13	Mar	ID	110	1,487	15	9	56	80	15	0	0
Section 13 Spring Total			**121**	**1,599**	**22**	**9**	**58**	**89**	**22**	**1**	
14	Mar	ID	108	1,254	66	12	37	115	65	12	0
Section 14 Spring Total			**108**	**1,254**	**66**	**12**	**37**	**115**	**65**	**12**	**0**
15	Mar	ID	859	8,402.75	357	173	112	642	348	61	0
15	Apr	ID	13	217	5	3	4	12	2	0	0
Section 15 Spring Total			**872**	**8,619.75**	**362**	**176**	**116**	**654**	**350**	**61**	**0**
16	Mar	ID	587	2,800	188	107	19	314	165	38	0
16	Apr	ID	3	62.5	2	1	1	4	2	1	0
Section 16 Spring Total			**590**	**2,862.5**	**190**	**108**	**20**	**318**	**167**	**39**	**0**

Appendix A. Continued.

Season / River Section	Month	State Collecting Data[a]	No. Anglers	Total Hours Fished	Steelhead Kept	Steelhead Released		Total Catch	No. Checked For CWT	No. Snouts Taken	Snouts Not Taken
						Hatchery	Wild				
Fall 2002–Spring 2003 Season, continued.											
17	Mar	ID	980	10,164	446	300	62	808	429	30	2
17	Apr	ID	314	3,364.5	152	153	22	327	145	4	1
Section 17 Spring Total			**1,294**	**13,528.5**	**598**	**453**	**84**	**1,135**	**574**	**34**	**3**
18	Mar	ID	315	2,022.5	213	264	690	1,167	180	14	1
18	Apr	ID	444	2,356	155	37	389	581	135	14	0
Section 18 Spring Total			**759**	**4,378.5**	**368**	**301**	**1,079**	**1,748**	**315**	**28**	**1**
19	Mar	ID	136	709.5	47	65	18	130	46	6	1
19	Apr	ID	998	4,612	128	119	145	392	111	26	4
Section 19 Spring Total			**1,134**	**5,321.5**	**175**	**184**	**163**	**522**	**157**	**32**	**5**
20	Feb	ID	269	1,324.5	83	30	109	222	78	6	0
20	Mar	ID	738	4,072	343	309	1,047	1,699	309	22	2
20	Apr	ID	444	2,356	155	37	389	581	135	14	0
Section 20 Spring Total			**1,451**	**7,752.5**	**581**	**376**	**1,545**	**2,502**	**522**	**42**	**2**
Spring 2003 Total			**11,327**	**69,572.25**	**3,894**	**2,031**	**4,916**	**10,841**	**3,538**	**363**	**16**
2002-2003 Season Total			**23,289**	**152,892.25**	**7,427**	**2,840**	**7,328**	**17,595**	**6,769**	**765**	**37**

Appendix A. Continued.

Season / River Section	Month	State Collecting Data[a]	No. Anglers	Total Hours Fished	Steelhead Kept	Steelhead Released Hatchery	Steelhead Released Wild	Total Catch	No. Checked For CWT	No. Snouts Taken	Snouts Not Taken
Fall 2003–Spring 2004 Season											
Fall 2003											
01	Sep	ID	74	331	8	0	3	11	9	2	1
01	Sep	WA	3	4	1	0	0	1	1	0	--
	Sep Total		77	335	9	0	3	12	10	2	**1**
01	Oct	ID	258	1796.5	165	46	107	318	95	12	0
01	Oct	WA	34	186	20	5	22	47	20	2	
	Oct Total		292	1,982.5	185	51	129	365	115	14	**0**
01	Nov	ID	320	2531.5	223	22	183	428	154	26	0
01	Nov	WA	82	476.75	61	0	44	105	61	10	--
	Nov Total		402	3,008.25	284	22	227	533	215	36	**0**
01	Dec	ID	68	381	27	10	28	65	38	8	0
01	Dec	WA	44	296.75	49	1	65	103	49	6	--
	Dec Total		112	677.75	76	11	93	168	87	14	0
Section 01 Fall Total			**883**	**6,003.5**	**554**	**84**	**452**	**1,078**	**427**	**66**	**1**
02	Sep	ID	1	2	1	0	0	1	1	0	0
Section 02 Fall 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	256	146	9	0
03	Nov	ID	948	3,671	230	17	103	350	218	10	8
03	Dec	ID	635	2,284	158	8	74	240	153	9	0
Section 03 Fall Total			**2,157**	**8,652.5**	**542**	**58**	**249**	**849**	**518**	**28**	**8**
04	Nov	ID	19	30	2	0	1	3	0	0	0
04	Dec	ID	21	71	3	0	3	6	2	0	0
Section 04 Fall 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	0
05	Dec	ID	24	71	1	0	0	1	1	0	0
Section 05 Fall 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	24	8	0	0
10	Nov	ID	58	311.5	17	0	17	34	10	1	0
Section 10 Fall Total			**173**	**997.5**	**31**	**1**	**26**	**58**	**18**	**1**	**0**
11	Sep	ID	30	77	0	1	1	2	0	0	0
11	Oct	ID	173	809	19	1	18	38	12	0	0
11	Nov	ID	381	1,880.5	39	5	35	79	35	2	0
11	Dec	ID	45	176	7	1	3	11	6	0	0
Section 11 Fall Total			**629**	**2,942.5**	**65**	**8**	**57**	**130**	**53**	**2**	**0**

Appendix A. Continued.

Season / River Section	Month	State Collecting Data[a]	No. Anglers	Total Hours Fished	Steelhead Kept	Steelhead Released		Total Catch	No. Checked For CWT	No. Snouts Taken	Snouts Not Taken
						Hatchery	Wild				
Fall 2003–Spring 2004 Season, continued.											
12	Sep	ID	12	41	0	0	1	1	0	0	0
12	Oct	ID	785	5,773	178	33	141	352	142	9	0
12	Nov	ID	1,414	8,465.5	201	19	168	388	185	13	1
12	Dec	ID	146	646	33	5	23	61	24	0	0
Section 12 Fall Total			**2,357**	**14,925.5**	**412**	**57**	**333**	**802**	**351**	**22**	**1**
13	Sep	ID	4	32	0	0	0	0	0	0	0
13	Oct	ID	246	2,697	87	9	167	263	78	2	0
13	Nov	ID	212	2,158	91	0	77	168	85	12	0
13	Dec	ID	13	118	12	3	14	29	12	0	0
Section 13 Fall Total			**475**	**5,005**	**190**	**12**	**258**	**460**	**175**	**14**	**0**
14	Oct	ID	319	3,638.5	89	29	223	341	76	5	0
14	Nov	ID	228	2,733.5	126	20	133	279	118	9	2
Section 14 Fall Total			**547**	**6,372**	**215**	**49**	**356**	**620**	**194**	**14**	**2**
15	Oct	ID	1,400	14,565.75	710	191	331	1,232	625	45	1
15	Nov	ID	1,187	10,679	544	149	186	879	535	34	1
Section 15 Fall Total			**2,587**	**25,244.75**	**1,254**	**340**	**517**	**2,111**	**1,160**	**79**	**2**
16	Oct	ID	346	1,284	55	34	21	110	46	2	0
16	Nov	ID	579	1,750	86	15	17	118	77	5	0
Section 16 Fall Total			**925**	**3,034**	**141**	**49**	**38**	**228**	**123**	**7**	**0**
17	Oct	ID	14	23	3	1	0	4	1	0	0
17	Nov	ID	22	74.5	11	1	2	14	1	1	0
Section 17 Fall Total			**36**	**97.5**	**14**	**2**	**2**	**18**	**2**	**1**	**0**
20	Sep	ID	4	4	0	0	0	0	0	0	0
20	Oct	ID	45	151	5	3	11	19	4	0	0
20	Nov	ID	96	254.5	7	4	6	17	7	1	0
20	Dec	ID	12	26	1	0	1	2	1	0	0
Section 20 Fall Total			**157**	**435.5**	**13**	**7**	**18**	**38**	**12**	**1**	**0**
Fall 2003 Total			**11,034**	**74,071.25**	**3,442**	**667**	**2,312**	**6,409**	**3,038**	**235**	**14**

Appendix A. Continued.

Season / River Section	Month	State Collecting Data[a]	No. Anglers	Total Hours Fished	Steelhead Kept	Steelhead Released		Total Catch	No. Checked For CWT	No. Snouts Taken	Snouts Not Taken
						Hatchery	Wild				
Fall 2003–Spring 2004 Season, continued.											
Spring 2004											
01	Jan	WA	32	204.75	22	3	28	53	22	1	--
01	Feb	WA	23	141.5	5	0	16	21	5	1	--
Section 01 Spring Total			**55**	**346.25**	**27**	**3**	**44**	**74**	**27**	**2**	**0**
03	Jan	ID	508	2,422	114	18	102	234	97	8	0
03	Feb	ID	366	1,427	79	10	44	133	78	6	0
03	Mar	ID	11	146	3	3	2	8	3	0	0
Section 03 Spring Total			**885**	**3,995**	**196**	**31**	**148**	**375**	**178**	**14**	**0**
04	Jan	ID	30	51	0	0	2	2	0	0	0
04	Feb	ID	463	2,109	86	4	39	129	64	5	0
04	Mar	ID	131	516	22	2	11	35	19	1	0
Section 04 Spring Total			**624**	**2,676**	**108**	**6**	**52**	**166**	**83**	**6**	**0**
05	Jan	ID	230	1,060	56	3	5	64	54	10	0
05	Feb	ID	258	972	54	12	8	74	44	1	0
05	Mar	ID	5	22	1	0	0	1	1	0	0
Section 05 Spring Total			**493**	**2,054**	**111**	**15**	**13**	**139**	**99**	**11**	**0**
07	Jan	ID	27	40	0	0	0	0	0	0	0
07	Feb	ID	679	2,774	80	32	82	194	71	1	0
07	Mar	ID	1,112	5,604	183	51	386	620	159	16	1
07	Apr	ID	545	2,357	129	72	393	594	118	6	0
Section 07 Spring Total			**2,363**	**10,775**	**392**	**155**	**861**	**1,408**	**348**	**23**	**1**
10	Feb	ID	8	84	0	0	0	0	0	0	0
10	Mar	ID	1	8	0	0	0	0	0	0	0
Section 10 Spring Total			**9**	**92**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
11	Feb	ID	74	362	12	3	10	25	11	0	0
11	Mar	ID	234	962	41	13	44	98	29	2	1
Section 11 Spring Total			**308**	**1,324**	**53**	**16**	**54**	**123**	**40**	**2**	**1**
12	Feb	ID	372	1,593	35	3	55	93	30	0	0
12	Mar	ID	749	3,086	53	5	52	110	47	2	0
Section 12 Spring Total			**1,121**	**4,679**	**88**	**8**	**107**	**203**	**77**	**2**	**0**
13	Feb	ID	25	164	20	1	19	40	20	2	0
13	Mar	ID	138	990	30	1	50	81	30	0	0
Section 13 Spring Total			**163**	**1,154**	**50**	**2**	**69**	**121**	**50**	**2**	**0**

Appendix A. Continued.

Season / River Section	Month	State Collecting Data[a]	No. Anglers	Total Hours Fished	Steelhead Kept	Steelhead Released		Total Catch	No. Checked For CWT	No. Snouts Taken	Snouts Not Taken
						Hatchery	Wild				
Fall 2003–Spring 2004 Season, continued.											
14	Mar	ID	88	936.5	22	3	42	67	24	2	0
Section 14 Spring Total			**88**	**936.5**	**22**	**3**	**42**	**67**	**24**	**2**	**0**
15	Feb	ID	14	143.5	4	0	0	4	4	0	0
15	Mar	ID	1,533	14,344.5	873	475	383	1,731	849	56	2
15	Apr	ID	9	91	0	11	1	12	0	0	0
Section 15 Spring Total			**1,556**	**14,579**	**877**	**486**	**384**	**1,747**	**853**	**56**	**2**
16	Feb	ID	244	785.5	54	19	15	88	50	4	0
16	Mar	ID	819	3,870	201	69	123	393	181	20	0
16	Apr	ID	131	635.5	51	51	68	170	35	2	0
Section 16 Spring Total			**1,194**	**5,291**	**306**	**139**	**206**	**651**	**266**	**26**	**0**
17	Feb	ID	44	139.5	7	3	3	13	7	1	0
17	Mar	ID	649	5,203	226	85	47	358	205	5	0
17	Apr	ID	428	3,677.5	186	96	30	312	184	3	1
Section 17 Spring Total			**1,121**	**9,020**	**419**	**184**	**80**	**683**	**396**	**9**	**1**
18	Mar	ID	512	4,171.5	152	30	53	235	137	8	0
18	Apr	ID	453	2,880	51	123	33	207	41	1	0
Section 18 Spring Total			**965**	**7,051.5**	**203**	**153**	**86**	**442**	**178**	**9**	**0**
19	Mar	ID	182	857	58	12	31	101	43	1	0
19	Apr	ID	1,147	6,238	260	129	150	539	206	10	5
Section 19 Spring Total			**1,329**	**7,095**	**318**	**141**	**181**	**640**	**249**	**11**	**5**
20	Feb	ID	45	128	6	0	3	9	5	1	0
20	Mar	ID	524	1,780	89	11	98	198	45	2	0
20	Apr	ID	614	2,758	163	40	822	1,025	78	6	0
Section 20 Spring Total			**1,183**	**4,666**	**258**	**51**	**923**	**1,232**	**128**	**9**	**0**
Spring 2004 Total			**13,457**	**75,734.25**	**3,428**	**1,393**	**3,250**	**8,071**	**2,996**	**184**	**10**
2003-2004 Season Total			**24,491**	**149,805.5**	**6,870**	**2,060**	**5,562**	**14,480**	**6,034**	**419**	**24**

[a] 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 known-age, 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[a]	Age Composition by Stock-Ocean Age			Mean Fork Length (cm) by Stock-Ocean Age		

2001-2002 Run Year

CLEARWATER FISH HATCHERY

Clearwater River			B-1	B-2	B-3	B-1	B-2	B-3
		N	N (%)	N (%)	N (%)			
	Males	14	4 (29%)	9 (64%)	1 (7%)	75±5	89±3	78
	Females	26	2 (8%)	22 (84%)	2 (8%)	74±21	84±2	90±4
	Clearwater River Total	40	6 (15%)	31 (78%)	3 (7%)	74±6	86±2	86±8

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

MAGIC VALLEY FISH HATCHERY

Snake River			A-1	A-2	A-1	A-2
		N	N (%)	N (%)		
	Males	0	0	0	-	-
	Females	1	1 (100%)	0	79	-
	Snake River, A-stock Total	1	1 (100%)	0	79	-
			B-1	B-2	B-1	B-2
		N	N (%)	N (%)		
	Males	1	0 (0%)	1 (100%)	-	87
	Females	0	0	0	-	-
	Snake River, B-stock Total	1	0 (0%)	1 (100%)	-	87
Salmon River			A-1	A-2	A-1	A-2
		N	N (%)	N (%)		
	Males	213	175 (82%)	38 (18%)	62±1	74±1
	Females	237	168 (71%)	69 (29%)	60±1	70±1
	Salmon River, A-stock Total	450	343 (76%)	107 (24%)	61±0	72±1
			B-1	B-2	B-1	B-2
		N	N (%)	N (%)		
	Males	23	2 (9%)	21 (91%)	67±12	79±5
	Females	32	0 (0%)	32 (100%)	-	78±1
	Salmon River, B-stock Total	55	2 (4%)	53 (96%)	67±12	79±2

507 coded wire tags were recovered in the 2001-2002 steelhead fishery from fish reared at Magic Valley Fish Hatchery[b].

Appendix B. Continued.

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

2001-2002 Run Year, continued.

HAGERMAN NATIONAL FISH HATCHERY

Snake River			A-1	A-2	A-1	A-2
		N	N (%)	N (%)		
	Males	0	-	-	-	-
	Females	3	3 (100%)	0 (0%)	60±2	-
	Snake River Total	3	3 (100%)	0 (0%)	60±2	-

Salmon River			A-1	A-2	A-1	A-2
		N	N (%)	N (%)		
	Males	235	212 (90%)	23 (10%)	62±0	73±2
	Females	300	235 (78%)	65 (22%)	60±0	70±1
	Salmon River Total	535	447 (84%)	88 (16%)	61±0	71±1

538 coded wire tags were recovered in the 2001-2002 steelhead fishery from fish reared at Hagerman National Fish Hatchery[b].

ALL LSRCP HATCHERIES COMBINED

Statewide, 1,085 coded wire tags were recovered in the 2001-2002 steelhead fishery from LSRCP-reared fish[b].

Appendix B. Continued.

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

2002-2003 Run Year

CLEARWATER FISH HATCHERY

Snake River			B-1	B-2	B-3	B-1	B-2	B-3
		N	N (%)	N (%)	N (%)			
	Males	0	-	-	-	-	-	-
	Females	1	1 (100%)	0 (0%)	-	79	-	-
	Snake River Total	1	1 (100%)	0 (0%)	-	79	-	-
Clearwater River			B-1	B-2	B-3	B-1	B-2	B-3
		N	N (%)	N (%)	N (%)			
	Males	26	3 (12%)	23 (88%)	-	72±10	92±2	-
	Females	31	1 (3%)	30 (97%)	-	70	87±1	-
	Clearwater River Total	57	4 (7%)	53 (93%)	-	72±7	89±1	-

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

MAGIC VALLEY FISH HATCHERY

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

260 coded wire tags were recovered in the 2002-2003 steelhead fishery from fish reared at Magic Valley Fish Hatchery[c].

Appendix B. Continued.

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

2002-2003 Run Year, continued.

HAGERMAN NATIONAL FISH HATCHERY

Snake River			A-1	A-2	A-1	A-2
		N	N (%)	N (%)		
	Males	2	1 (50%)	1 (50%)	66	76
	Females	0	-	-	-	-
	Snake River Total	2	1 (50%)	1 (50%)	66	76

Salmon River			A-1	A-2	A-1	A-2
		N	N (%)	N (%)		
	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

79 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[c].

Appendix B. Continued.

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

2003-2004 Run Year

CLEARWATER FISH HATCHERY

Snake River			B-1	B-2	B-3	B-1	B-2	B-3
		N	N (%)	N (%)	N (%)			
	Males	0	-	-	-	-	-	-
	Females	1	1 (100%)	0 (0%)	-	82	-	-
	Snake River Total	1	1 (100%)	0 (0%)	-	82	-	-
Clearwater River			B-1	B-2	B-3	B-1	B-2	B-3
		N	N (%)	N (%)	N (%)			
	Males	14	3 (22%)	10 (71%)	1 (7%)	70±8	91±3	86
	Females	26	0 (%)	25 (96%)	1 (4%)	-	83±1	87
	Clearwater River Total	40	3 (8%)	35 (87%)	2 (5%)	70±8	85±2	87±1

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

MAGIC VALLEY FISH HATCHERY

Snake River			A-1	A-2		A-1	A-2	
		N	N (%)	N (%)				
	Males	0	-	-		-	-	
	Females	1	0 (0%)	1 (100%)		-	70	
	Snake River Total	1	0 (0%)	1 (100%)		-	70	
Salmon River			A-1	A-2		A-1	A-2	
		N	N (%)	N (%)				
	Males	38	18 (47%)	20 (53%)		58±2	69±3	
	Females	66	30 (45%)	36 (55%)		57±1	68±1	
	Salmon River, A-stock Total	104	48 (46%)	56 (54%)		57±1	68±1	
			B-1	B-2	B-3	B-1	B-2	B-3
		N	N (%)	N (%)	N (%)			
	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
	Salmon River, B-stock Total	35	9 (26%)	25 (71%)	1 (3%)	61±1	76±2	88

140 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			A-1	A-2		A-1	A-2	
		N	N (%)	N (%)				
	Males	2	2 (100%)	0 (0%)		62±1	-	
	Females	2	2 (100%)	0 (0%)		63±3	-	
	Snake River Total	4	4 (100%)	0 (0%)		62±1	-	

Appendix B. Continued.

Recovery Location	Sex	Sample Size[a]	Age Composition by Stock-Ocean Age		Mean Fork Length (cm) by Stock-Ocean Age	
2003-2004 Run Year, continued.						
Salmon River			A-1	A-2	A-1	A-2
		N	N (%)	N (%)		
	Males	14	13 (93%)	1 (7%)	58±2	70
	Females	15	12 (80%)	3 (20%)	59±3	66±5
	Salmon River Total	29	25 (86%)	4 (14%)	58±3	67±4

33 coded wire tags were recovered in the 2003-2004 steelhead fishery from fish reared at Hagerman National Fish Hatchery[d].

ALL LSRCP HATCHERIES COMBINED

Statewide, 214 coded wire tags were recovered in the 2003-2004 steelhead fishery from LSRCP-reared fish[d].

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

[b] 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.

[c] 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.

[d] 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[a]	Estimated Harvest
2001-2002 Season								
		HAGERMAN NATIONAL FISH HATCHERY RELEASES						
10/46/34	A-2	Sawtooth Hatchery	9,701	October	15	1	0.310	3
				November	15	2	0.365	5
				March	15	1	0.281	4
					Total	**4**		**12**
10/46/36	A-2	Little Salmon River	10,137	October	12	1	0.306	3
				November	12	2	0.224	9
				April	20	1	0.090	11
					Total	**4**		**23**
10/46/37	A-2	Little Salmon River	10,003	October	12	1	0.306	3
				February	20	1	0.024	42
				April	20	2	0.090	22
					Total	**4**		**67**
10/46/43	A-2	Sawtooth Hatchery	9,257	October	15	1	0.310	3
				November	15	1	0.365	3
				November	16	1	0.178	6
				March	16	1	0.346	3
				April	19	1	0.157	6
					Total	**5**		**21**
10/46/44	A-2	Sawtooth Hatchery	9,343	November	14	1	0.292	3
				November	15	1	0.365	3
				February	12	1	0.163	6
				March	14	1	0.253	4
				April	17	1	0.171	6
					Total	**5**		**22**
10/46/45	A-2	Sawtooth Hatchery	9,509	March	15	1	0.281	4
				March	17	1	0.251	4
				April	18	1	0.087	11
				April	19	1	0.157	6
					Total	**4**		**25**
10/46/46	A-2	Sawtooth Hatchery	9,875	November	14	1	0.292	3
				November	15	1	0.365	3
				November	16	1	0.178	6
					Total	**3**		**12**
10/51/07	A-2	Sawtooth Hatchery	9,008	November	15	2	0.365	5
				April	19	1	0.157	6
					Total	**3**		**11**
10/51/09	A-2	Sawtooth Hatchery	9,495	October	15	1	0.310	3
				October	16	1	0.153	7
					Total	**2**		**10**
10/51/10	A-2	Sawtooth Hatchery	9,309	November	15	1	0.365	3
				March	15	1	0.281	4
				March	16	1	0.346	3
					Total	**3**		**10**

Appendix C. Continued.

Tag Code	Stock and Ocean Age	Release Site	No. Fish Released	Recovery Month	River Section (Total)	No. Tags	Sample Rate[a]	Estimated Harvest
2001-2002 Season, continued.								
10/52/57	A-2	Sawtooth Hatchery	18,973	October	15	2	0.310	6
				November	15	3	0.365	8
				November	16	1	0.178	6
				April	17	1	0.171	6
				April	19	1	0.157	6
					Total	**8**		**32**
10/52/58	A-2	Sawtooth Hatchery	18,786	October	15	1	0.310	3
				November	15	1	0.365	3
				March	15	1	0.281	4
					Total	**3**		**10**
10/52/59	A-2	Sawtooth Hatchery	19,171	November	15	4	0.365	11
				November	16	1	0.178	6
				March	14	2	0.253	8
				March	15	2	0.281	7
				April	19	1	0.157	6
					Total	**10**		**38**
10/52/60	A-2	Sawtooth Hatchery	19,426	October	15	3	0.310	10
				November	15	1	0.365	3
				March	14	1	0.253	4
					Total	**5**		**17**
10/52/61	A-2	Sawtooth Hatchery	17,807	October	15	1	0.310	3
				November	14	1	0.292	3
				November	15	3	0.365	8
				November	16	1	0.178	6
					Total	**6**		**20**
10/52/63	A-2	Sawtooth Hatchery	19,678	October	15	1	0.310	3
				November	12	1	0.224	4
				November	14	1	0.292	3
				November	15	1	0.365	3
				November	16	1	0.178	6
				March	15	1	0.281	4
				April	18	1	0.087	11
				April	19	1	0.157	6
					Total	**8**		**40**
10/53/01	A-2	Sawtooth Hatchery	20,133	October	15	1	0.310	3
				October	16	1	0.153	7
				November	15	1	0.365	3
				March	16	1	0.346	3
					Total	**4**		**16**
10/53/02	A-2	Sawtooth Hatchery	18,088	October	15	2	0.310	6
				November	15	2	0.365	5
				November	17	1	0.020	50
				March	15	1	0.281	4
				April	18	1	0.087	11
					Total	**7**		**76**

Appendix C. Continued.

Tag Code	Stock and Ocean Age	Release Site	No. Fish Released	Recovery Month	River Section (Total)	No. Tags	Sample Rate[a]	Estimated Harvest
2001-2002 Season, continued.								
10/55/16	A-1	Sawtooth Hatchery	17,726	October	14	1	0.190	5
				October	15	4	0.310	13
				October	16	1	0.153	7
				November	14	2	0.292	7
				November	15	11	0.365	30
				November	16	1	0.178	6
				December	01	1	0.039	26
				December	16	1	0.094	11
				February	15	1	0.100	10
				March	15	3	0.281	11
				March	16	2	0.346	6
				March	17	2	0.251	8
				April	18	1	0.087	11
				April	19	7	0.157	45
					Total	**38**		**196**
10/55/17	A-1	Sawtooth Hatchery	20,187	October	15	9	0.310	29
				November	15	14	0.365	38
				November	16	2	0.178	11
				December	16	1	0.094	11
				March	12	1	0.265	4
				March	14	1	0.253	4
				March	15	6	0.281	21
				March	16	3	0.346	9
				March	17	1	0.251	4
				April	17	1	0.171	6
				April	18	2	0.087	23
				April	19	9	0.157	57
					Total	**50**		**217**
10/55/18	A-1	Sawtooth Hatchery	19,670	October	15	5	0.310	16
				October	16	1	0.153	7
				November	14	2	0.292	7
				November	15	18	0.365	49
				November	16	3	0.178	17
				February	15	1	0.100	10
				February	16	1	0.082	12
				March	12	1	0.265	4
				March	14	2	0.253	8
				March	17	1	0.251	4
				April	19	7	0.157	45
					Total	**42**		**179**
10/55/19	A-1	Sawtooth Hatchery	19,441	October	15	2	0.310	6
				November	14	2	0.292	7
				November	15	11	0.365	30
				November	16	1	0.178	6
				February	12	1	0.163	6
				March	14	2	0.253	8
				March	15	6	0.281	21
				March	16	1	0.346	3
				March	17	1	0.251	4
				March	18	1	0.091	11
				April	19	8	0.157	51
					Total	**36**		**153**

Appendix C. Continued.

Tag Code	Stock and Ocean Age	Release Site	No. Fish Released	Recovery Month	River Section (Total)	No. Tags	Sample Rate[a]	Estimated Harvest
2001-2002 Season, continued.								
10/55/20	A-1	Sawtooth Hatchery	19,999	October	15	6	0.310	19
				November	14	2	0.292	7
				November	15	12	0.365	33
				November	16	1	0.178	6
				November	17	1	0.020	50
				March	12	1	0.265	4
				March	14	1	0.253	4
				March	15	2	0.281	7
				March	16	1	0.346	3
				April	19	14	0.157	89
					Total	**41**		**222**
10/55/21	A-1	Sawtooth Hatchery	19,312	September	01	1	0.070	14
				October	12	1	0.306	3
				October	14	2	0.190	11
				October	15	7	0.310	23
				November	14	1	0.292	3
				November	15	5	0.365	14
				November	16	1	0.178	6
				February	16	1	0.082	12
				March	12	1	0.265	4
				March	15	10	0.281	36
				March	16	1	0.346	3
				March	17	2	0.251	8
				April	19	9	0.157	57
					Total	**42**		**194**
10/55/22	A-1	Sawtooth Hatchery	19,563	October	15	5	0.310	16
				October	16	1	0.153	7
				November	14	2	0.292	7
				November	15	9	0.365	25
				November	16	1	0.178	6
				February	15	1	0.100	10
				March	14	2	0.253	8
				March	15	1	0.281	4
				March	16	1	0.346	3
				April	18	1	0.087	11
				April	19	3	0.157	19
					Total	**27**		**116**
10/55/23	A-1	Sawtooth Hatchery	18,153	October	15	2	0.310	6
				November	14	2	0.292	7
				November	15	12	0.365	33
				November	16	1	0.178	6
				February	14	1	0.055	18
				February	15	2	0.100	20
				February	16	1	0.082	12
				March	14	3	0.253	12
				March	15	3	0.281	11
				March	17	1	0.251	4
				April	18	1	0.087	11
				April	19	6	0.157	38
					Total	**35**		**178**

Appendix C. Continued.

Tag Code	Stock and Ocean Age	Release Site	No. Fish Released	Recovery Month	River Section (Total)	No. Tags	Sample Rate[a]	Estimated Harvest
2001-2002 Season, continued.								
10/55/24	A-1	Sawtooth Hatchery	20,170	November	14	2	0.292	7
				November	15	12	0.365	33
				December	16	1	0.094	11
				February	15	1	0.100	10
				February	16	1	0.082	12
				March	14	2	0.253	8
				March	15	7	0.281	25
				March	16	3	0.346	9
				March	17	1	0.251	4
				April	18	1	0.087	11
				April	19	6	0.157	38
					Total	**37**		**168**
10/55/25	A-1	Sawtooth Hatchery	20,757	October	15	3	0.310	10
				November	14	1	0.292	3
				November	15	11	0.365	30
				February	15	1	0.100	10
				March	15	7	0.281	25
				March	16	1	0.346	3
				March	17	2	0.251	8
				April	17	1	0.171	6
				April	18	1	0.087	11
				April	19	4	0.157	25
					Total	**32**		**131**
10/55/26	A-1	Sawtooth Hatchery	19,549	October	15	5	0.310	16
				November	14	2	0.292	7
				November	15	10	0.365	27
				November	16	3	0.178	17
				February	15	1	0.100	10
				March	15	2	0.281	7
				March	17	1	0.251	4
				April	18	1	0.087	11
				April	19	9	0.157	57
					Total	**34**		**156**
10/55/27	A-1	Sawtooth Hatchery	19,809	September	01	1	0.070	14
				October	14	1	0.190	5
				October	15	5	0.310	16
				November	14	1	0.292	3
				November	15	4	0.365	11
				February	15	2	0.100	20
				March	14	1	0.253	4
				March	15	11	0.281	39
				March	16	6	0.346	17
				March	17	1	0.251	4
				April	17	1	0.171	6
				April	19	4	0.157	25
					Total	**38**		**164**
Hagerman National Fish Hatchery Total		**30 Mark Groups**				**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[a]	Estimated Harvest
2001-2002 Season, continued.								
		MAGIC VALLEY FISH HATCHERY RELEASES						
10/36/06	A-1	Salmon River at Lemhi River	62,081	October	12	1	0.306	3
				October	14	1	0.190	5
				October	15	18	0.310	58
				November	14	13	0.292	45
				November	15	47	0.365	129
				March	14	7	0.253	28
				March	15	15	0.281	53
				March	16	17	0.346	49
				March	17	3	0.251	12
				April	16	5	0.056	89
				April	17	1	0.171	6
				April	18	2	0.087	23
					Total	**130**		**500**
10/46/48	A-1	Salmon River at Shoup Bridge	7,663	October	14	1	0.190	5
				October	15	2	0.310	6
				November	15	6	0.365	16
				March	14	1	0.253	4
				March	15	3	0.281	11
				April	17	1	0.171	6
					Total	**14**		**48**
10/48/29	A-1	Salmon River at Tunnel Rock	11,153	October	14	3	0.190	16
				October	15	1	0.310	3
				November	12	1	0.224	4
				November	14	1	0.292	3
				November	15	10	0.365	27
				February	12	1	0.163	6
				March	12	1	0.265	4
				March	14	1	0.253	4
				March	15	2	0.281	7
				April	17	1	0.171	6
				April	19	5	0.157	32
					Total	**27**		**112**
10/52/53	B-2	Squaw Creek Pond Below Outlet	16,755	November	15	1	0.365	3
				March	12	1	0.265	4
				March	14	1	0.253	4
				April	15	1	0.163	6
					Total	**4**		**17**
10/52/54	B-2	Squaw Creek Pond Below Outlet	17,683	April	19	1	0.157	6
					Total	**1**		**6**
10/52/55	B-2	Squaw Creek Pond Below Outlet	14,407	October	12	1	0.306	3
				November	14	3	0.292	10
				February	12	1	0.163	6
				April	19	2	0.157	13
					Total	**7**		**32**
10/52/56	B-2	Little Salmon River	16,416	November	12	1	0.224	4
				April	20	1	0.090	11
					Total	**2**		**15**

Appendix C. Continued.

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

Appendix C. Continued.

Tag Code	Stock and Ocean Age	Release Site	No. Fish Released	Recovery Month	River Section (Total)	No. Tags	Sample Rate[a]	Estimated Harvest
2001-2002 Season, continued.								
10/54/06	A-2	Salmon River at Red Rock	60,343	October	14	3	0.190	16
				October	15	4	0.310	13
				November	14	1	0.292	3
				November	15	14	0.365	38
				November	16	1	0.178	6
				February	15	1	0.100	10
				March	14	1	0.253	4
				March	15	8	0.281	28
				March	16	6	0.346	17
				April	18	1	0.087	11
					Total	**40**		**146**
10/54/13	B-1	Squaw Creek (Upper Salmon River)	50,820	November	14	1	0.292	3
				April	17	1	0.171	6
					Total	**2**		**9**
10/54/14	A-1	Salmon River at Shoup Bridge	46,866	October	12	1	0.306	3
				October	14	1	0.190	5
				October	15	18	0.310	58
				November	14	9	0.292	31
				November	15	33	0.365	90
				November	16	1	0.178	6
				December	16	1	0.094	11
				March	14	4	0.253	16
				March	15	13	0.281	46
				March	16	3	0.346	9
				March	17	2	0.251	8
				April	15	1	0.163	6
				April	16	1	0.056	18
				April	17	1	0.171	6
					Total	**89**		**313**
10/54/15	A-1	Salmon River at Tunnel Rock	50,300	October	14	2	0.190	11
				October	15	9	0.310	29
				October	16	1	0.153	7
				November	01	1	0.087	11
				November	14	5	0.292	17
				November	15	27	0.365	74
				November	16	2	0.178	11
				February	12	2	0.163	12
				February	16	3	0.082	37
				March	12	1	0.265	4
				March	14	3	0.253	12
				March	15	8	0.281	28
				March	16	3	0.346	9
				March	17	2	0.251	8
				April	18	3	0.087	34
				April	19	12	0.157	76
					Total	**84**		**380**
Magic Valley Fish Hatchery Total		**16 Mark Groups**				**508**		**2,060**

Appendix C. Continued.

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

Appendix C. Continued.

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

Appendix C. Continued.

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

Appendix C. Continued.

Tag Code	Stock and Ocean Age	Release Site	No. Fish Released	Recovery Month	River Section (Total)	No. Tags	Sample Rate[a]	Estimated Harvest
2002-2003 Season, continued.								
10/48/15	B-1	Squaw Creek (Upper Salmon River)	19,332	October	14	1	0.288	3
				October	15	2	0.263	8
				November	11	1	0.016	63
				February	12	1	0.157	6
				March	15	1	0.249	4
				March	17	1	0.178	6
				April	19	2	0.091	22
					Total	**9**		**112**
10/48/16	B-1	Squaw Creek (Upper Salmon River)	17,551	October	01	1	0.089	11
				October	14	1	0.288	3
				October	15	4	0.263	15
				November	14	1	0.211	5
				November	15	2	0.144	14
				April	19	2	0.091	22
					Total	**11**		**70**
10/48/18	A-1	Salmon River at Tunnel Rock	21,486	September	03/05	1	0.007	143
				October	12	1	0.353	3
				October	15	3	0.263	11
				November	15	2	0.144	14
				March	15	2	0.249	8
				March	16	1	0.281	4
				March	18	3	0.246	12
				March	19	1	0.104	10
					Total	**14**		**205**
10/48/19	A-1	Salmon River at Tunnel Rock	21,061	October	15	2	0.263	8
				October	16	1	0.139	7
				March	14	2	0.150	13
				March	15	1	0.249	4
				April	18	1	0.221	5
				April	19	1	0.091	11
					Total	**8**		**48**
10/48/20	A-1	Salmon River at Tunnel Rock	20,775	October	12	1	0.353	3
				October	15	4	0.263	15
				November	14	1	0.211	5
				March	15	1	0.249	4
				April	18	1	0.221	5
					Total	**8**		**32**
10/48/21	B-1	Squaw Creek (Upper Salmon River)	18,730	November	13	1	0.153	7
				November	14	1	0.211	5
					Total	**2**		**12**
10/48/29	A-2	Salmon River at Tunnel Rock	11,153	October	15	1	0.263	4
				February	12	1	0.157	6
				March	15	1	0.249	4
					Total	**3**		**14**

Appendix C. Continued.

Tag Code	Stock and Ocean Age	Release Site	No. Fish Released	Recovery Month	River Section (Total)	No. Tags	Sample Rate[a]	Estimated Harvest
2002-2003 Season, continued.								
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	1	0.178	6
					Total	**21**		**99**
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 Springs	21,575	October	01	1	0.089	11
				November	01	1	0.172	6
					Total	**2**		**17**
10/53/70	B-1	Little Salmon River at Stinky Springs Springs	13,350	October	11	1	0.038	26
				October	15	1	0.263	4
				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
				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**

Appendix C. Continued.

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

Appendix C. Continued.

Tag Code	Stock and Ocean Age	Release Site	No. Fish Released	Recovery Month	River Section (Total)	No. Tags	Sample Rate[a]	Estimated Harvest
2002-2003 Season, continued.								
10/61/70	A-1	Salmon River at Red Rock	21,856	October	14	2	0.288	7
				October	15	3	0.263	11
				November	15	3	0.144	21
				March	15	4	0.249	16
				March	16	1	0.281	4
				March	17	1	0.178	6
				March	18	1	0.246	4
					Total	**15**		**69**
10/62/70	A-1	Salmon River at Red Rock	21,222	September	03/05	1	0.007	143
				October	01	3	0.089	34
				October	15	1	0.263	4
				November	15	2	0.144	14
				February	12	1	0.157	6
				March	14	1	0.150	7
				March	15	3	0.249	12
				March	16	1	0.281	4
				March	17	1	0.178	6
					Total	**14**		**230**
Magic Valley Fish Hatchery Total		**27 Mark Groups**				**261**		**2,500**
		CLEARWATER FISH HATCHERY						
10/48/26	B-1	South Fork Clearwater at Red House Hole	20,736	March	07	1	0.133	8
					Total	**1**		**8**
10/48/28	B-1	South Fork Clearwater at Red House Hole	20,914	October	03/05	1	0.027	37
				November	03/05	1	0.050	20
				March	07	1	0.133	8
					Total	**3**		**65**
10/54/08	B-2	South Fork Clearwater at Red House Hole	31,196	October	03/05	1	0.027	37
				November	01	1	0.172	6
				February	04	1	0.011	91
				February	07	5	0.132	38
				March	07	8	0.133	60
					Total	**16**		**232**
10/54/19	B-2	Clear Creek	43,375	October	03/05	1	0.027	37
				January	03/05	6	0.104	58
				February	03/05	1	0.048	21
				February	04	1	0.011	91
				February	07	1	0.132	8
				March	04	1	0.025	40
					Total	**11**		**255**
10/54/26	B-2	South Fork Clearwater at Red House Hole	32,101	September	03/05	1	0.007	143
				October	01	1	0.089	11
				October	03/05	1	0.027	37
				November	03/05	1	0.050	20
				December	03/05	2	0.039	51
				January	03/05	1	0.104	10
				February	04	1	0.011	91
				February	07	4	0.132	30
				March	07	10	0.133	75
				April	07	5	0.075	67
					Total	**27**		**535**

Appendix C. Continued.

Tag Code	Stock and Ocean Age	Release Site	No. Fish Released	Recovery Month	River Section (Total)	No. Tags	Sample Rate[a]	Estimated Harvest
2002-2003 Season, continued.								
Clearwater Fish Hatchery Total		**5 Mark Groups**				**58**		**1,095**
Grand Total		**46 Marked Groups**				**398**		**4,306**
2003-2004 SEASON								
		HAGERMAN NATIONAL FISH HATCHERY RELEASES						
100772	A-1	Sawtooth Hatchery	43,087	October	01	1	0.108	9
				October	12	1	0.336	3
				October	15	5	0.262	19
				November	01	3	0.213	14
				November	13	1	0.455	2
				November	15	3	0.235	13
				November	16	1	0.137	7
				February	17	1	0.034	29
				March	15	8	0.404	20
				March	16	1	0.192	5
				March	19	1	0.075	13
				April	17	2	0.193	10
				April	19	2	0.181	11
					Total	**30**		**155**
104803	A-2	Sawtooth Hatchery	20,236	November	15	1	0.235	4
					Total	**1**		**4**
104806	A-2	Sawtooth Hatchery	20,278	November	12	1	0.323	3
				November	15	1	0.235	4
				March	15	1	0.404	2
					Total	**3**		**9**
Hagerman National Fish Hatchery Total		**3 Mark Groups**				**34**		**168**
		MAGIC VALLEY FISH HATCHERY RELEASES						
10/10/72	B-1	Squaw Creek (upper Salmon River)	9,893	October	14	1	0.145	7
					Total	**1**		**7**
10/11/72	A-1	Salmon River at Challis	10,943	November	15	2	0.235	9
				November	16	1	0.137	7
					Total	**3**		**16**
10/12/72	A-1	Lemhi River at St. Charles Bridge	10,833	October	15	2	0.262	8
				November	12	1	0.323	3
				November	14	1	0.129	8
				November	15	1	0.235	4
				March	15	1	0.404	2
				March	16	3	0.192	16
				March	17	1	0.161	6
				April	16	1	0.110	9
					Total	**11**		**56**

Appendix C. Continued.

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

Appendix C. Continued.

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

Appendix C. Continued.

Tag Code	Stock and Ocean Age	Release Site	No. Fish Released	Recovery Month	River Section (Total)	No. Tags	Sample Rate[a]	Estimated Harvest
2003-2004 Season, continued.								
10/68/70	A-1	Lemhi River at St. Charles bridge	21,328	October	15	3	0.262	11
				November	13	1	0.455	2
				November	14	5	0.129	39
				November	15	3	0.235	13
				February	16	1	0.165	6
				March	15	7	0.404	17
				March	16	3	0.192	16
				April	16	1	0.110	9
					Total	**24**		**113**
10/93/71	B-1	Squaw Creek (upper Salmon River)	31,518	November	13	1	0.455	2
					Total	**1**		**2**
Magic Valley Fish Hatchery Total		**29 Mark Groups**				**140**		**933**
		CLEARWATER FISH HATCHERY						
10/48/02	B-2	Clear Creek	21,439	December	03/05	2	0.047	43
				February	04	1	0.063	16
				March	04	1	0.051	20
					Total	**4**		**79**
10/48/10	B-1	South Fork Clearwater River at Red House Hole	21,104	March	07	1	0.116	9
					Total	**1**		**9**
10/48/12	B-1	South Fork Clearwater River at Red House Hole	22,629	February	04	1	0.063	16
					Total	**1**		**16**
10/48/23	B-2	Crooked River	22,679	October	03/05	1	0.050	20
					Total	**1**		**20**
10/48/24	B-2	Crooked River	22,010	October	03/05	1	0.050	20
				December	03/05	1	0.047	21
				March	07	3	0.116	26
					Total	**5**		**67**
10/48/25	B-2	Crooked River	21,977	March	07	1	0.116	9
				April	02	1	--	1
					Total	**2**		**10**
10/48/26	B-2	South Fork Clearwater River at Red House Hole	20,736	November	03/05	1	0.05	20
				February	03/05	1	0.057	18
				February	04	2	0.063	32
				February	07	1	0.141	7
				March	07	1	0.116	9
				April	07	1	0.236	4
					Total	**7**		**90**
10/48/27	B-2	South Fork Clearwater River at Red House Hole	22,076	January	03/05	2	0.084	24
				March	07	7	0.116	60
				April	07	1	0.236	4
					Total	**10**		**88**
10/48/28	B-2	South Fork Clearwater River at Red House Hole	20,914	March	07	5	0.116	43
				April	07	2	0.236	8
					Total	**7**		**51**

Appendix C. Continued.

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

[a] 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.

Release Year	Stock and Ocean Age	Release Site	Stock Name[a]	Marking Purpose	Tags	No. of Fish Released Tagged	No. of Fish Released Untagged	Mark Rate	Estimated No. of Fish Harvest	Estimated No. of Fish Hatchery Returns[b]	Estimated No. of Fish Total	Exploitation Rate
Fall 2001–Spring 2002 Season												
				HAGERMAN NATIONAL FISH HATCHERY RELEASES								
2000	A-1	Sawtooth Hatchery	SFH	Early Egg Take;	CWT 10/55/16	17,726			196	132	328	0.60
				Direct Release	CWT 10/55/17	20,187			217	112	329	0.66
					CWT 10/55/18[c]	19,670			179	125	304	0.59
					None		1,605[d]		17	10	27	0.64
			SFH	Acclimation;	CWT 10/55/19[c]	19,441			153	99	252	0.61
				% Body Weight	CWT 10/55/20[c]	19,999			222	79	301	0.74
				Diet	CWT 10/55/22[c]	19,563			116	92	208	0.56
					None		486,823		4,051	2,090	6,141	0.66
			SFH	Acclimation;	CWT 10/55/21[c]	19,312			194	106	300	0.65
				Feed/Fast	CWT 10/55/23[c]	18,153			178	112	290	0.61
					CWT 10/55/24[c]	20,170			168	92	260	0.65
					None		4,193		39	21	60	0.65
			SFH	Late Egg Take;	CWT 10/55/25[c]	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				**234,336**	**493,460**					
					No. Released		**727,796**	**0.32**	**6,187**	**3,358**	**9,545**	**0.65**
					12 Mark Groups; 12 Mark Groups Recovered in Fishery							
1999	A-2	Sawtooth Hatchery	SFH	Direct Release	CWT 10/46/34[c]	9,701			12	8	20	0.60
				Late Egg Progeny	CWT 10/46/43	9,257			21	7	28	0.75
					CWT 10/46/44	9,343			22	9	31	0.71
					CWT 10/46/45	9,509			25	6	31	0.81
					CWT 10/46/46	9,875			12	8	20	0.60
					CWT 10/51/07[c]	9,008			11	6	17	0.65
					None		7,069		13	5	18	0.72
			SFH	Direct Release	CWT 10/51/09	9,495			10	5	15	0.67
				Early Egg Progeny	CWT 10/51/10	9,309			10	7	17	0.59
					CWT 10/53/01[c]	20,133			16	10	26	0.62

Appendix D. Continued.

Release Year	Stock and Ocean Age	Release Site	Stock Name[a]	Marking Purpose	Tags	No. of Fish Released Tagged	Untagged	Mark Rate	Estimated No. of Fish Harvest	Hatchery Returns[b]	Total	Exploitation Rate
Fall 2001–Spring 2002 Season, continued.												
1999	A-2	Sawtooth Hatchery, continued.			CWT 10/53/02	18,088			76	11	87	0.87
					None		1,127		2	1	3	0.67
			SFH	Acclimated Feed/Fast	CWT 10/52/59[c]	19,171			38	17	55	0.69
					CWT 10/52/60[c]	19,426			17	17	34	0.50
					CWT 10/52/63[c]	19,678			40	7	47	0.85
					None		2,013		3	1	4	0.75
			SFH	Acclimated % Body Wt.Diet	CWT 10/52/57[c]	18,973			32	15	47	0.68
					CWT 10/52/58[c]	18,786			10	24	34	0.29
					CWT 10/52/61[c]	17,807			20	7	27	0.74
					None		372,500		416	303	719	0.58
			SFH	Direct Release	None		104,521		171	32	203	0.84
		Subtotals				**227,559**	**487,230**					
					No. Released		**714,789**	**0.32**	**977**	**506**	**1,483**	**0.66**
					16 Mark Groups; 16 Mark Groups Recovered in Fishery							
	Sawtooth Hatchery Subtotals					**461,895**	**980,690**					
					No. Released		**1,442,585**	**0.32**	**7,164**	**3,864**	**11,028**	**0.65**
					28 Mark Groups; 28 Mark Groups Recovered in Fishery							
2000	A-1	Little Salmon River	HC	Contribution	None[c]		395,924		3,101	4,901	8,002	0.39
		Subtotals				**0**	**395,924**					
					No. Released		**395,924**	**0**	**3,101**	**4,901**	**8,002**	**0.39**
					0 Mark Groups							
1999	A-2	Little Salmon River	HC	Contribution	CWT 10/46/35	10,326			0	21	21	0
					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		378,254		835	781	1,616	0.52
		Subtotals				**40,782**	**378,254**					
					No. Released		**419,036**	**0.10**	**925**	**865**	**1,790**	**0.52**
					4 Mark Groups; 2 Mark Groups Recovered in Fishery							
	Little Salmon River Subtotals					**40,782**	**774,178**					
					No. Released		**814,960**	**0.05**	**4,026**	**5,766**	**9,792**	**0.41**
					4 Mark Groups; 2 Mark Groups Recovered in Fishery							

Appendix D. Continued.

Release Year	Stock and Ocean Age	Release Site	Stock Name[a]	Marking Purpose	Tags	No. of Fish Released Tagged	No. of Fish Released Untagged	Mark Rate	Estimated No. of Fish Harvest	Estimated No. of Fish Hatchery Returns[b]	Estimated No. of Fish Total	Exploitation Rate
Fall 2001–Spring 2002 Season, continued.												
2000	A-1	Hazard Creek	HC	Supplementation	**None**	**0**	51,161		401	633	1,034	0.39
	Hazard Creek Subtotals					**0**	**51,161**					
					No. Released		**51,161**	**0**	**401**	**633**	**1,034**	**0.39**
					0 Mark Groups							
Releases from Hagerman National Fish Hatchery ("A" Stock Releases)						**502,677**	**1,806,029**					
					No. Released		**2,308,706**	**0.22**	**11,591**	**10,263**	**21,854**	**0.53**
					32 Mark Groups; 30 Mark Groups Recovered in Fishery							
				MAGIC VALLEY FISH HATCHERY RELEASES								
1999	A-2	Sawtooth Hatchery	PFH	Contribution	None		39,660		65	50	115	0.57
	Sawtooth Hatchery Subtotals					**0**	**39,660**					
					No. Released		**39,660**	**0**	**65**	**50**	**115**	**0.57**
					0 Mark Groups							
1998	B-3	Slate Creek	EF	Contribution	CWT 10/21/46[c]	21,173			0	0	0	--
					CWT 10/21/47[c]	21,178			0	0	0	--
					CWT 10/21/48	17,324			0	0	0	--
					None		114,905		0	0	0	--
	Slate Creek Subtotals					**59,675**	**114,905**					
					No. Released		**174,580**	**0.34**	**0**	**0**	**0**	**--**
					3 Mark Groups; 0 Mark Groups Recovered in Fishery							
2000	B-1	Squaw Creek Ponds	DNFH	Production	None		106,135		15	2	17	0.88
		Subtotals				**0**	**106,135**					
					No. Released		**106,135**	**0**	**15**	**2**	**17**	**0.88**
					0 Mark Groups							
1999	B-2	Squaw Creek Pond	DNFH	Volitional Release	None		78,244		88	8	96	0.92
		Subtotals				**0**	**78,244**					
					No. Released		**78,244**	**0**	**88**	**8**	**96**	**0.92**
					0 Mark Groups							

Appendix D. Continued.

Release Year	Stock and Ocean Age	Release Site	Stock Name[a]	Marking Purpose	Tags	No. of Fish Released Tagged	No. of Fish Released Untagged	Mark Rate	Estimated No. of Fish Harvest	Estimated No. of Fish Hatchery Returns[b]	Estimated No. of Fish Total	Exploitation Rate
Fall 2001–Spring 2002 Season, continued.												
1998	B-3	Squaw Creek Pond	DNFH	Volitional Release	None[c]		52,800		0	0	0	--
						0	**52,800**					
		Subtotals			**No. Released**		**52,800**	**0**	**0**	**0**	**0**	**--**
					0 Mark Groups							
	Squaw Creek Pond Subtotals					**0**	**237,179**					
					No. Released		**237,179**	**0**	**103**	**10**	**113**	**0.91**
					0 Mark Groups							
2000	B-1	Squaw Creek (upper)	DNFH	Contribution	CWT 10/54/13[c]	50,820			9	0	9	1.00
					CWT 10/46/47[c]	10,523			0	0	0	--
					BWT 10/00/00[d]	347			0	1	1	0
					None		131,946		19	2	21	0.90
			EF	Production	None[c]		51,866		8	1	9	0.89
		Subtotals				**61,690**	**183,812**					
					No. Released		**245,502**	**0.25**	**36**	**4**	**40**	**0.90**
					3 Mark Groups; 1 Mark Group Recovered in Fishery							
1999	B-2	Squaw Creek (upper)	DNFH	Contribution	CWT 10/54/02[c]	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 Mark Group Recovered in Fishery							
	Squaw Creek Subtotals					**120,204**	**330,104**					
					No. Released		**450,308**	**0.27**	**313**	**8**	**321**	**0.98**
					4 Mark Groups; 2 Mark Groups Recovered in Fishery							
1999	B-2	Squaw Cr. Pond below Outlet	EF& DNFH	Contribution	CWT 10/52/53	16,755			17	2	19	0.89
					CWT 10/52/54[c]	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
	Squaw Creek Pond below Outlet Subtotals					**48,845**	**58,164**					
					No. Released		**107,009**	**0.46**	**120**	**11**	**131**	**0.92**
					3 Mark Groups; 3 Mark Groups Recovered in Fishery							

Appendix D. Continued.

Release Year	Stock and Ocean Age	Release Site	Stock Name[a]	Marking Purpose	Tags	No. of Fish Released Tagged	Untagged	Mark Rate	Estimated No. of Fish Harvest	Hatchery Returns[b]	Total	Exploitation Rate
Fall 2001–Spring 2002 Season, continued.												
2000	B-1	East Fork Salmon River at Dumpster	DNFH	Production	None		239,981		35	4	39	0.90
		Subtotals				**0**	**239,981**					
					No. Released		**239,981**	**0**	**35**	**4**	**39**	**0.90**
					0 Mark Groups							
1999	B-2	East Fork Salmon River at Dumpster	DNFH	Contribution	CWT 10/54/03[c]	59,129			86	0	86	1.00
					None		209,796		305	0	305	1.00
		Subtotals				**59,129**	**209,796**					
					No. Released		**268,925**	**0.22**	**391**	**0**	**391**	**1.00**
					1 Mark Group; 1 Mark Group Recovered in Fishery							
1998	B-3	East Fork Salmon River at Dumpster	DNFH	Contribution	CWT 10/21/43[c]	20,367			0	0	0	--
					CWT 10/21/44[c]	20,932			0	0	0	--
					CWT 10/21/45[c]	19,811			0	0	0	--
					None		224,915		0	0	0	--
			DNFH	Fin Erosion Study	None		35,700		0	0	0	--
		Subtotals				**61,110**	**260,615**					
					No. Released		**321,725**	**0.19**	**0**	**0**	**0**	**--**
					3 Mark Groups; 0 Mark Groups Recovered in Fishery							
	East Fork Salmon River at Dumpster Subtotals					**120,239**	**710,392**					
					No. Released		**830,631**	**0.14**	**426**	**4**	**430**	**0.99**
					4 Mark Groups; 1 Mark Group Recovered in Fishery							
1998	B-3	East Fork Trap	EF	Contribution	CWT 10/47/05	21,372			0	0	0	--
					CWT 10/47/06	21,088			0	0	0	--
					CWT 10/47/07	20,781			0	0	0	--
					None		63,679		0	0	0	--
	East Fork Trap Subtotals					**63,241**	**63,679**					
					No. Released		**126,920**	**0.50**	**0**	**0**	**0**	**--**
					3 Mark Groups; 0 Mark Groups Recovered in Fishery							

Appendix D. Continued.

Release Year	Stock and Ocean Age	Release Site	Stock Name[a]	Marking Purpose	Tags	No. of Fish Released Tagged	Untagged	Mark Rate	Estimated No. of Fish Harvest	Hatchery Returns[b]	Total	Exploitation Rate
Fall 2001–Spring 2002 Season, continued.												
2000	A-1	Salmon River at Tunnel Rock	SFH	Contribution	CWT 10/48/29[c]	11,153			112	138	250	0.45
					CWT 10/54/15[c]	50,300			380	623	1,003	0.38
					None		47,220		378	584	962	0.39
		Subtotals				**61,453**	**47,220**					
					No. Released		**108,673**	**0.57**	**870**	**1,345**	**2,215**	**0.39**
					2 Mark Groups; 2 Mark Groups Recovered in Fishery							
1999	A-2	Salmon River at Tunnel Rock	PFH	Contribution	CWT 10/54/04	60,661			110	125	235	0.47
					None		68,552		124	142	266	0.47
		Subtotals				**60,661**	**68,552**					
					No. Released		**129,213**	**0.47**	**234**	**267**	**501**	**0.47**
					1 Mark Group; 1 Mark Group Recovered in Fishery							
1999	B-2	Salmon River at Tunnel Rock	DNFH	Contribution	CWT 10/54/01[c]	53,680			59	0	59	1.00
					None		24,454		27	3	30	0.90
		Subtotals				**53,680**	**24,454**					
					No. Released		**78,134**	**0.69**	**86**	**3**	**89**	**0.97**
					1 Mark Group; 1 Mark Group Recovered in Fishery							
	Salmon River at Tunnel Rock Subtotals					**175,794**	**140,226**					
					No. Released		**316,020**	**0.56**	**1,190**	**1,615**	**2,805**	**0.42**
					4 Mark Groups; 4 Mark Groups Recovered in Fishery							
2000	A-1	Salmon River at Challis	SFH	Production	None		24,491		131	303	434	0.30
			PFH	Production	None		21,250		131	263	394	0.33
	Salmon River at Challis Subtotals					**0**	**45,741**					
					No. Released		**45,741**	**0**	**262**	**566**	**828**	**0.32**
					0 Mark Groups							
2000	A-1	Salmon River at McNabbs Point	SFH	Production	None		105,578		651	1,307	1,958	0.33
		Subtotals				**0**	**105,578**					
					No. Released		**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				**0**	**121,210**					
					No. Released		**121,210**	**0**	**220**	**250**	**470**	**0.47**
					0 Mark Groups							

Appendix D. Continued.

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

Appendix D. Continued.

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

Appendix D. Continued.

Release Year	Stock and Ocean Age	Release Site	Stock Name[a]	Marking Purpose	Tags	No. of Fish Released Tagged	No. of Fish Released Untagged	Mark Rate	Estimated No. of Fish Harvest	Estimated No. of Fish Hatchery Returns[b]	Estimated No. of Fish Total	Exploitation Rate
Fall 2001–Spring 2002 Season, continued.												
1999	A-2	Salmon River at Red Rock	PFH	Contribution	CWT 10/54/06	60,343			146	125	271	0.54
					None		111,421		270	230	500	0.54
		Subtotals				**60,343**	**111,421**					
					No. Released		**171,764**	**0.35**	**416**	**355**	**771**	**0.54**
					1 Mark Group; 1 Mark Group Recovered in Fishery							
	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 Mark Group Recovered 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 Subtotals					**0**	**41,091**					
					No. Released		**41,091**	**0**	**304**	**509**	**813**	**0.37**
					0 Mark Groups							
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		**61,732**	**0**	**456**	**764**	**1,220**	**0.37**
					0 Mark Groups							
2000	A-1	Little Salmon River at Stinky Springs	HC	Contribution	None		115,423		904	1,429	2,333	0.39
		Subtotals				**0**	**115,423**					
					No. Released		**115,423**	**0**	**904**	**1,429**	**2,333**	**0.39**
					0 Mark Groups							
1999	A-2	Little Salmon River	PFH	Contribution	None		41,620		0	86	86	0
		Subtotals				**0**	**41,620**					
					No. Released		**41,620**	**0**	**0**	**86**	**86**	**0**
					0 Mark Groups							
2000	B-1	Little Salmon River at Stinky Springs	DNFH	Contribution	CWT 10/36/05[c]	63,244			0	1	1	0
					None		232,640		0	4	4	0
					BWT 10/00/00		4,639		0	0	0	--
		Subtotals				**63,244**	**237,279**					
					No. Released		**300,523**	**0.21**	**0**	**5**	**5**	**0**
					2 Mark Groups; 0 Mark Groups Recovered in Fish							

Appendix D. Continued.

Release Year	Stock and Ocean Age	Release Site	Stock Name[a]	Marking Purpose	Tags	No. of Fish Released Tagged	No. of Fish Released Untagged	Mark Rate	Estimated No. of Fish Harvest	Estimated No. of Fish Hatchery Returns[b]	Estimated No. of Fish Total	Exploitation Rate
Fall 2001–Spring 2002 Season, continued.												
1999	B-2	Little Salmon River at Stinky Springs	DNFH	Contribution	CWT 10/52/56	16,416			15	1	16	0.94
					None[c]		308,139		282	11	293	0.96
		Subtotals				**16,416**	**308,139**					
					No. Released		**324,555**	**0.05**	**297**	**12**	**309**	**0.96**
					1 Mark Group; 1 Mark Groups Recovered in Fishery							
1998	B-3	Little Salmon River at Stinky Springs	DNFH	Contribution	CWT 10/21/31[c]	21,428			0	0	0	--
					CWT 10/21/32[c]	20,983			0	0	0	--
					CWT 10/21/33[c]	20,212			0	0	0	--
					None[c]		218,327		0	0	0	--
		Subtotals				**62,623**	**218,327**					
					No. Released		**280,950**	**0.22**	**0**	**0**	**0**	**--**
					3 Mark Groups; 0 Mark Groups Recovered in Fishery							
	Little Salmon River at Stinky Springs Subtotals					**142,283**	**920,788**					
					No. Released		**1,063,071**	**0.13**	**1,201**	**1,532**	**2,733**	**0.44**
					6 Mark Groups; 1 Mark Group Recovered in Fishery							
2000	B-1	South Fork Clearwater River at Mill Creek	DNFH	Production	None[e]		19,556		No Estimates Made			
	South Fork Clearwater River at Mill Creek Subtotals					**0**	**19,556**					
					No. Released		**19,556**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
2000	B-1	South Fork Clearwater River at Meadow Creek	DNFH	Supplementation; Late Eggs	None[e]		19,557		No Estimates Made			
	South Fork Clearwater River at Meadow Creek Subtotals					**0**	**19,557**					
					No. Released		**19,557**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
2000	B-1	Red River	DNFH	Supplementation; Late Eggs	None[e]		30,480		No Estimates Made			
	Red River Subtotals					**0**	**30,480**					
					No. Released		**30,480**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
2000	B-1	American River	DNFH	Supplementation; Late Eggs	None[c,e]		96,187		No Estimates Made			
	American River Subtotals					**0**	**96,187**					
					No. Released		**96,187**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							

Appendix D. Continued.

Release Year	Stock and Ocean Age	Release Site	Stock Name[a]	Marking Purpose	Tags	No. of Fish Released Tagged	No. of Fish Released Untagged	Mark Rate	Estimated No. of Fish Harvest	Estimated No. of Fish Hatchery Returns[b]	Estimated No. of Fish Total	Exploitation Rate
Fall 2001–Spring 2002 Season, continued.												
2000	B-1	Newsome Creek	DNFH	Supplementation; Late Eggs	None[c,e]		100,078		No Estimates Made			
	Newsome Creek Subtotals					**0**	**100,078**					
					No. Released		**100,078**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
Releases from Magic Valley Fish Hatchery												
		"A" Stock Releases				**359,520**	**1,412,252**					
		(with adipose fin clips)			**No. Released**		**1,771,772**	**0.20**	**8,173**	**12,828**	**21,001**	**0.39**
					8 Mark Groups; 8 Mark Groups Recovered in Fishery							
		"B" Stock Releases				**608,167**	**2,302,622**					
		(with adipose fin clips)			**No. Released**		**2,910,789**	**0.21**	**1,345**	**53**	**1,398**	**0.96**
					24 Mark Groups; 8 Mark Groups Recovered in Fishery							
	All Releases with Adipose Fin Clips					**967,687**	**3,714,874**					
				No. Released			**4,682,561**	**0.21**	**9,518**	**12,881**	**22,399**	**0.42**
					32 Mark Groups; 16 Mark Groups Recovered in Fishery							
	Releases without Adipose Fin Clips					**0**	**265,858**					
					No. Released		**265,858**	**--**	**--**	**--**	**--**	--
					0 Mark Groups							
				CLEARWATER FISH HATCHERY RELEASES								
2000	B-1	Red River Rearing Ponds	DNFH	Nez Perce Tribe Release	None[c,e]		139,662		No Estimates Made			
	Red River Rearing Ponds Subtotals					**0**	**139,662**					
					No. Released		**139,662**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
1999	B-2	Red River at Soda Creek Bridge	DNFH	Supplementation	None[c,e]		4,993		No Estimates Made			
		Subtotals				**0**	**4,993**					
					No. Released		**4,993**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							

Appendix D. Continued.

Release Year	Stock and Ocean Age	Release Site	Stock Name[a]	Marking Purpose	Tags	No. of Fish Released Tagged	No. of Fish Released Untagged	Mark Rate	Estimated No. of Fish Harvest	Estimated No. of Fish Hatchery Returns[b]	Estimated No. of Fish Total	Exploitation Rate
Fall 2001–Spring 2002 Season, continued.												
1998	B-3	Red River	DNFH	Supplementation	None[c,e]		4,497		No Estimates Made			
		Subtotals				**0**	**4,497**					
					No. Released		**4,497**	--	--	--	--	--
					0 Mark Groups							
	Red River Subtotals					**0**	**149,152**					
					No. Released		**149,152**	--	--	--	--	--
					0 Mark Groups							
2000	B-1	South Fork Clearwater River at Red House Hole	DNFH	Contribution	CWT 10/54/26[c]	32,101			30	34	64	0.47
					CWT 10/54/08[c]	31,196			11	33	44	0.25
					None		248,119		161	264	425	0.38
		Subtotals				**63,297**	**248,119**					
					No. Released		**311,416**	**0.20**	**202**	**331**	**533**	**0.38**
					2 Mark Groups; 2 Mark Groups Recovered in Fishery							
1999	B-2	South Fork Clearwater River at Red House Hole	DNFH	Contribution	CWT 10/52/35	20,763			67	110	177	0.38
					CWT 10/52/36[c]	21,200			112	113	225	0.50
					CWT 10/52/37	20,645			58	110	168	0.35
					None		337,858		1,279	1,798	3,077	0.42
		Subtotals				**62,608**	**337,858**					
					No. Released		**400,466**	**0.16**	**1,516**	**2,131**	**3,647**	**0.42**
					3 Mark Groups; 3 Mark Groups Recovered in Fishery							
1998	B-3	South Fork Clearwater River	DNFH	Contribution	CWT 10/47/38[c]	21,859			14	4	18	0.78
					CWT 10/47/39[c]	21,079			0	4	4	0
					CWT 10/47/40[c]	21,093			14	4	18	0.78
					None		468,274		205	88	293	0.70
		Subtotals				**64,031**	**468,274**					
					No. Released		**532,305**	**0.12**	**233**	**100**	**333**	**0.70**
					3 Mark Groups; 2Mark Groups Recovered in Fishery							
	South Fork Clearwater River Subtotals					**189,936**	**1,054,251**					
					No. Released		**1,244,187**	**0.15**	**1,951**	**2,562**	**4,513**	**0.43**
					8 Mark Groups; 7 Mark Groups Recovered in Fishery							
2000	B-1	Clear Creek	DNFH	Contribution	CWT 10/54/19[c]	43,375			6	7	13	0.46
					None		140,482		19	23	42	0.45
		Subtotals				**43,375**	**140,482**					
					No. Released		**183,857**	**0.24**	**25**	**30**	**55**	**0.45**
					1 Mark Groups; 1 Mark Group Recovered in Fishery							

Appendix D. Continued.

Release Year	Stock and Ocean Age	Release Site	Stock Name[a]	Marking Purpose	Tags	No. of Fish Released Tagged	No. of Fish Released Untagged	Mark Rate	Estimated No. of Fish Harvest	Estimated No. of Fish Hatchery Returns[b]	Estimated No. of Fish Total	Exploitation Rate
Fall 2001–Spring 2002 Season, continued.												
1999	B-2	Clear Creek	DNFH	Moore/Clark Diet (Feed Exp.)	CWT 10/52/33[c]	20,668			70	24	94	0.74
					None		110,901		376	129	505	0.74
			DNFH	Bio-Diet Feed (Feed Exp.)	CWT 10/52/34[c]	20,322			0	15	15	0
					None		38,648		0	29	29	0
		Subtotals				**40,990**	**149,549**					
					No. Released		**190,539**	**0.22**	**446**	**197**	**643**	**0.69**
					2 Mark Groups; 1 Mark Group Recovered in Fishery							
1998	B-3	Clear Creek	DNFH	Contribution	CWT 10/52/25[c]	20,851			0	0	0	--
					None		144,633		0	0	0	--
		Subtotals				**20,851**	**144,633**					
					No. Released		**165,484**	**0.13**	**0**	**0**	**0**	**--**
					1 Mark Group; 0 Mark Group Recovered in Fishery							
	Clear Creek Subtotals					**105,216**	**434,664**					
					No. Released		**539,880**	**0.19**	**471**	**227**	**698**	**0.67**
					4 Mark Groups; 2 Mark Groups Recovered in Fishery							
2000	B-1	Crooked River Ponds	DNFH	Nez Perce Tribe Release	None[c,e]		100,331		No Estimates Made			--
	Crooked River Subtotals					**0**	**100,331**					
					No. Released		**100,331**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
Releases from Clearwater Fish Hatchery												
		"B" Stock Releases (with adipose fin clips)				**295,152**	**1,488,915**					
					No. Released		**1,784,067**	**0.17**	**2,422**	**2,789**	**5,211**	**0.46**
					12 Mark Groups; 9 Mark Groups Recovered in Fishery							
		Releases without Adipose Fin Clips				**0**	**249,483**					
					No. Released		**249,483**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
Total Returns for Run Year 2000-2001												
		Releases with Adipose Fin Clips				**1,765,516**	**7,009,818**					
					No. Released		**8,775,334**	**0.20**	**23,531**	**25,933**	**49,463**	**0.48**
					76 Mark Groups; 55 Mark Groups Recovered in Fishery							
		Releases without Adipose Fin Clips				**0**	**515,341**					
					No. Released		**515,341**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							

Appendix D. Continued.

Release Year	Stock and Ocean Age	Release Site	Stock Name[a]	Marking Purpose	Tags	No. of Fish Released Tagged	No. of Fish Released Untagged	Mark Rate	Estimated No. of Fish Harvest	Estimated No. of Fish Hatchery Returns[b]	Estimated No. of Fish Total	Exploitation Rate
Fall 2002–Spring 2003 Season												
				HAGERMAN NATIONAL FISH HATCHERY RELEASES								
2001	A-1	Sawtooth Hatchery	SFH	Acclimated; Production	CWT 10/48/03	20,236			15	22	37	0.41
					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**	**648,875**					
					No. Released		**707,834**	**0.08**	**2,605**	**1,581**	**4,186**	**0.62**
					3 Mark Groups; 2 Mark Groups Recovered in Fishery							
2000	A-2	Sawtooth Hatchery	SFH	Early Egg Take; Direct Release	CWT 10/55/16	17,726			73	11	84	0.87
					CWT 10/55/17	20,187			44	18	62	0.71
					CWT 10/55/18[c]	19,670			98	20	118	0.83
					None		1,605[d]		6	3	9	0.67
			SFH	Acclimation; % Body Weight Diet	CWT 10/55/19[c]	19,441			21	14	35	0.60
					CWT 10/55/20[c]	19,999			23	12	35	0.66
					CWT 10/55/22[c]	19,563			42	9	51	0.82
					None		486,823		710	658	1,368	0.52
			SFH	Acclimation; Feed/Fast	CWT 10/55/21[c]	19,312			24	23	47	0.51
					CWT 10/55/23[c]	18,153			60	17	77	0.78
					CWT 10/55/24[c]	20,170			19	10	29	0.66
					None		4,193		7	8	15	0.47
			SFH	Late Egg Take; Direct Release	CWT 10/55/25[c]	20,757			41	15	56	0.73
					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 Mark Groups Recovered in Fishery							
	Sawtooth Hatchery Subtotals					**293,295**	**1,142,335**					
					No. Released		**1,435,630**	**0.20**	**3,823**	**2,430**	**6,253**	**0.61**
					15 Mark Groups; 14 Mark Groups Recovered in Fishery							

Appendix D. Continued.

Release Year	Stock and Ocean Age	Release Site	Stock Name[a]	Marking Purpose	Tags	No. of Fish Released Tagged	No. of Fish Released Untagged	Mark Rate	Estimated No. of Fish Harvest	Estimated No. of Fish Hatchery Returns[b]	Estimated No. of Fish Total	Exploitation Rate
Fall 2002–Spring 2003 Season, continued.												
2001	A-1	Yankee Fork Salmon River dredge ponds	SFH	Supplementation	None[e]		137,656		No Estimates Made			
Yankee Fork Salmon River dredge pond Subtotals						**0**	**137,656**					
					No. Released		**137,656**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
2001	A-1	Little Salmon River at Stinky Springs	PFH	Supplementation	CWT 10/48/04[e]	17,581			No Estimates Made			
					None[e]		139,031		No Estimates Made			
Little Salmon River Supplementation Subtotals						**17,581**	**139,031**					
					No. Released		**156,612**	**--**	**--**	**--**	**--**	**--**
					1 Mark Group; 0 Mark Groups Recovered in Fishery							
2000	A-2	Little Salmon River	HC	Contribution	None[c]		395,924		2,926	658	3,584	0.82
Little Salmon River Subtotals						**0**	**395,924**					
					No. Released		**395,924**	**0**	**2,926**	**658**	**3,584**	**0.82**
					0 Mark Groups							
2001	A-1	Hazard Creek	PFH	Supplementation	None[e]		50,557		No Estimates Made			
Hazard Creek (not adipose fin clipped) Subtotals						**0**	**50,557**					
					No. Released		**50,557**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
2000	A-2	Hazard Creek	HC	Supplementation	**None**	**0**	51,161	0	378	85	463	0.82
Hazard Creek Subtotals						**0**	**51,161**					
					No. Released		**51,161**	**0**	**378**	**85**	**463**	**0.82**
					0 Mark Groups							
2001	B-1	Newsome Creek	DNFH	Supplementation	None[e]		86,441		No Estimates Made			
Newsome Creek Subtotals						**0**	**86,441**					
					No. Released		**86,441**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
2001	B-1	American River	DNFH	Supplementation	None[e]		90,188		No Estimates Made			
American River Subtotals						**0**	**90,188**					
					No. Released		**90,188**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							

Appendix D. Continued.

Release Year	Stock and Ocean Age	Release Site	Stock Name[a]	Marking Purpose	Tags	No. of Fish Released Tagged	No. of Fish Released Untagged	Mark Rate	Estimated No. of Fish Harvest	Estimated No. of Fish Hatchery Returns[b]	Estimated No. of Fish Total	Exploitation Rate
Fall 2002–Spring 2003 Season, continued.												
Releases from Hagerman National Fish Hatchery												
		("A" Stock Releases)				**293,295**	**1,589,420**					
		(with adipose fin clips)			**No. Released**		**1,882,715**	**0.16**	**7,127**	**3,173**	**10,300**	**0.69**
					15 Mark Groups; 14 Mark Groups Recovered in Fishery							
		Releases without Adipose Fin Clips				**17,581**	**503,873**					
		(Both "A" and "B" Stock Released)			**No. Released**		**521,454**	**--**	**--**	**--**	**--**	**--**
					1 Mark Groups; 0 Mark Groups Recovered in Fishery							
				MAGIC VALLEY FISH HATCHERY RELEASES								
2001	B-1	Sawtooth Hatchery	DNFH	Production	None		1,145		0	0	0	--
	Sawtooth Hatchery Subtotals					**0**	**1,145**					
					No. Released		**1,145**	**0**	**0**	**0**	**0**	**--**
					0 Mark Groups							
2001	A-1	Yankee Fork Salmon River at 3rd bridge up	SFH	Production	None[c]		98,623		363	234	597	0.61
						0	**98,623**					
	Yankee Fork Salmon River Subtotals				**No. Released**		**98,623**	**0**	**363**	**234**	**597**	**0.61**
					0 Mark Groups							
2001	B-1	Squaw Creek pond	DNFH	Production	None		75,912		20	0	20	1.00
		Subtotals				**0**	**75,912**					
					No. Released		**75,912**	**0**	**20**	**0**	**20**	**1.00**
					0 Mark Groups							
2000	B-2	Squaw Creek Ponds	DNFH	Production	None		106,135		377	5	382	0.99
		Subtotals				**0**	**106,135**					
					No. Released		**106,135**	**0**	**377**	**5**	**382**	**0.99**
					0 Mark Groups							
1999	B-3	Squaw Creek Pond	DNFH	Volitional Release	None		78,244		0	0	0	--
		Subtotals				**0**	**78,244**					
					No. Released		**78,244**	**0**	**0**	**0**	**0**	**--**
					0 Mark Groups							
	Squaw Creek Pond Subtotals					**0**	**260,291**					
					No. Released		**260,291**	**0**	**397**	**5**	**402**	**0.99**
					0 Mark Groups							

Appendix D. Continued.

Release Year	Stock and Ocean Age	Release Site	Stock Name[a]	Marking Purpose	Tags	No. of Fish Released Tagged	Untagged	Mark Rate	Estimated No. of Fish Harvest	Hatchery Returns[b]	Total	Exploitation Rate
Fall 2002–Spring 2003 Season, continued.												
2001	B-1	Squaw Creek (upper)	EF[a]	Production	CWT 10/48/15[c]	19,332			112	9	121	0.93
					CWT 10/48/16[c]	17,551			70	8	78	0.90
					None		1,141		6	1	7	0.86
			DNFH	Production	BWT 10/00/00	8,164			0	0	0	--
			DNFH	Production	CWT 10/48/21[c]	18,730			12	0	12	1.00
					CWT 10/48/22[c]	17,810			0	0	0	--
					None		85,733		23	0	23	1.00
		Subtotals				**81,587**	**86,874**					
					No. Released		**168,461**	**0.48**	**223**	**18**	**241**	**0.93**
					5 Mark Groups; 3 Mark Group Recovered in Fishery							
2000	B-2	Squaw Creek (upper)	DNFH	Contribution	CWT 10/54/13[c]	50,820			155	0	155	1.00
					CWT 10/46/47[c]	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
2000	B-2	Squaw Creek (upper), continued.	EF	Production	None[c]		51,866		184	2	186	0.99
		Subtotals				**61,690**	**183,812**					
					No. Released		**245,502**	**0.25**	**872**	**8**	**480**	**0.98**
					3 Mark Groups; 2 Mark Group Recovered in Fishery							
1999	B-3	Squaw Creek (upper)	DNFH	Contribution	CWT 10/54/02[c]	58,514			0	0	0	--
					None		146,292		0	0	0	--
		Subtotals				**58,514**	**146,292**					
					No. Released		**204,806**	**0.29**	**0**	**0**	**0**	**--**
					1 Mark Group; 0 Mark Group Recovered in Fishery							
	Squaw Creek Subtotals					**201,791**	**416,978**					
					No. Released		**618,769**	**0.33**	**1,095**	**26**	**1,121**	**0.98**
					9 Mark Groups; 5 Mark Groups Recovered in Fishery							
1999	B-3	Squaw Cr. Pond below Outlet	EF& DNFH	Contribution	CWT 10/52/53	16,755			0	0	0	--
					CWT 10/52/54[c]	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 Subtotals					**48,845**	**58,164**					
					No. Released		**107,009**	**0.46**	**0**	**0**	**0**	**--**
					3 Mark Groups; 0 Mark Groups Recovered in Fishery							

Appendix D. Continued.

Release Year	Stock and Ocean Age	Release Site	Stock Name[a]	Marking Purpose	Tags	No. of Fish Released Tagged	No. of Fish Released Untagged	Mark Rate	Estimated No. of Fish Harvest	Estimated No. of Fish Hatchery Returns[b]	Estimated No. of Fish Total	Exploitation Rate
Fall 2002–Spring 2003 Season, continued.												
2001	B-1	East Fork Salmon River at Dumpster	DNFH	Production	None		51,810		14	2	16	0.88
		Subtotals				**0**	**51,810**					
					No. Released		**51,810**	**0**	**14**	**2**	**16**	**0.88**
					0 Mark Groups							
2000	B-2	East Fork Salmon River at Dumpster	DNFH	Production	None		239,981		853	11	864	0.99
		Subtotals				**0**	**239,981**					
					No. Released		**239,981**	**0**	**853**	**11**	**864**	**0.99**
					0 Mark Groups							
1999	B-3	East Fork Salmon River at Dumpster	DNFH	Contribution	CWT 10/54/03[c]	59,129			4	0	4	1.00
					None		209,796		14	0	14	1.00
		Subtotals				**59,129**	**209,796**					
					No. Released		**268,925**	**0.22**	**18**	**0**	**18**	**1.00**
					1 Mark Group; 1 Mark Group Recovered in Fishery							
	East Fork Salmon River at Dumpster Subtotals					**59,129**	**501,587**					
					No. Released		**560,716**	**0.11**	**885**	**13**	**898**	**0.99**
					1 Mark Group; 1 Mark Group Recovered in Fishery							
2001	A-1	Salmon River at Tunnel Rock	SFH	Production	CWT 10/48/18[c]	21,486			205	109	314	0.65
					CWT 10/48/19[c]	21,061			48	107	155	0.31
					CWT 10/48/20[c]	20,775			32	105	137	0.23
					None		1,958		9	10	19	0.47
		Subtotals				**63,322**	**1,958**					
					No. Released		**65,280**	**0.97**	**294**	**331**	**625**	**0.47**
					3 Mark Groups; 3 Mark Groups Recovered in Fishery							
2000	A-2	Salmon River at Tunnel Rock	SFH	Contribution	CWT 10/48/29[c]	11,153			14	0	14	1.00
					CWT 10/54/15[c]	50,300			30	2	32	0.94
					None		47,220		87	78	165	0.53
		Subtotals				**61,453**	**47,220**					
					No. Released		**108,673**	**0.57**	**131**	**80**	**211**	**0.62**
					2 Mark Groups; 2 Mark Groups Recovered in Fishery							
1999	B-3	Salmon River at Tunnel Rock	DNFH	Contribution	CWT 10/54/01[c]	53,680			0	0	0	--
					None		24,454		0	0	0	--
		Subtotals				**53,680**	**24,454**					
					No. Released		**78,134**	**0.69**	**0**	**0**	**0**	**--**
					1 Mark Group; 0 Mark Groups Recovered in Fishery							

Appendix D. Continued.

Release Year	Stock and Ocean Age	Release Site	Stock Name[a]	Marking Purpose	Tags	No. of Fish Released Tagged	Untagged	Mark Rate	Estimated No. of Fish Harvest	Hatchery Returns[b]	Total	Exploitation Rate
Fall 2002–Spring 2003 Season, continued.												
	Salmon River at Tunnel Rock Subtotals					**178,455**	**73,632**					
					No. Released		**252,087**	**0.71**	**425**	**411**	**836**	**0.51**
					6 Mark Groups; 5 Mark Groups Recovered in Fishery							
2001	A-1	Salmon River at Challis	SFH	Production	None		41,850		188	212	400	0.47
		Subtotals				**0**	**41,850**					
					No. Released		**41,850**	**0**	**188**	**212**	**400**	**0.47**
					0 Mark Groups							
2000	A-2	Salmon River at Challis	SFH	Production	None		24,491		45	41	86	0.52
			PFH	Production	None		21,250		39	35	74	0.53
		Subtotals				**0**	**45,741**					
					No. Released		**45,741**	**0**	**84**	**76**	**160**	**0.53**
					0 Mark Groups							
	Salmon River at Challis Subtotals					**0**	**87,591**					
					No. Released		**87,591**	**0**	**272**	**288**	**560**	**0.49**
					0 Mark Groups							
2001	A-1	Salmon River at McNabbs Point	SFH	Production	None		84,389		380	427	807	0.47
		Subtotals				**0**	**84,389**					
					No. Released		**84,389**	**0**	**380**	**427**	**807**	**0.47**
					0 Mark Groups							
2000	A-2	Salmon River at McNabbs Point	SFH	Production	None		105,578		194	175	369	0.53
		Subtotals				**0**	**105,578**					
					No. Released		**105,578**	**0**	**194**	**175**	**369**	**0.53**
					0 Mark Groups							
	Salmon River at McNabbs Point Subtotals					**0**	**189,967**					
					No. Released		**189,967**	**0**	**574**	**602**	**1,176**	**0.49**
					0 Mark Groups							
2001	A-1	Salmon River at Cottonwood Campground	SFH	Production	None		77,790		350	394	744	0.47
		Subtotals				**0**	**77,790**					
					No. Released		**77,790**	**0**	**350**	**394**	**744**	**0.47**
					0 Mark Groups							

Appendix D. Continued.

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

Appendix D. Continued.

Release Year	Stock and Ocean Age	Release Site	Stock Name[a]	Marking Purpose	Tags	No. of Fish Released Tagged	No. of Fish Released Untagged	Mark Rate	Estimated No. of Fish Harvest	Estimated No. of Fish Hatchery Returns[b]	Estimated No. of Fish Total	Exploitation Rate
Fall 2002–Spring 2003 Season, continued.												
	Salmon River at Eyehole Subtotals					**0**	**66,770**					
					No. Released		**66,770**	**0**	**158**	**265**	**422**	**0.37**
					0 Mark Groups							
2001	A-1	Salmon River at Shoup Bridge	SFH	Production	CWT 10/48/35[c]	32,006			99	162	261	0.38
					None		28,986		90	147	237	0.38
		Subtotals				**32,006**	**28,986**					
					No. Released		**60,992**	**0.52**	**189**	**309**	**498**	**0.38**
					1 Mark Group; 1 Mark Groups Recovered in Fishery							
2000	A-2	Salmon River at Shoup Bridge	PFH	Contribution	CWT 10/46/48[c]	7,663			0	13	13	0
					CWT 10/54/14[c]	46,866			45	78	123	0.37
					None		13,399		11	22	33	0.33
		Subtotals				**54,529**	**13,399**					
					No. Released		**67,928**	**0.80**	**56**	**113**	**169**	**0.33**
					2 Mark Groups; 1 Mark Groups Recovered in Fishery							
	Salmon River at Shoup Bridge Subtotals					**86,535**	**42,385**					
					No. Released		**128,920**	**0.67**	**245**	**422**	**667**	**0.37**
					3 Mark Groups; 2 Mark Groups Recovered in Fishery							
2001	A-1	Lemhi River at mouth	SFH	Production	CWT 10/48/36	31,626			190	160	350	0.54
					None		68,748		413	348	761	0.54
		Subtotals				**31,626**	**68,748**					
					No. Released		**100,374**	**0.32**	**603**	**508**	**1,111**	**0.54**
					1 Mark Group; 1 Mark Group Recovered in Fishery							
2000	A-2	Lemhi River	PFH	Contribution	CWT 10/36/06[c]	62,081			68	103	171	0.40
					None		51,286		56	85	141	0.40
			SFH	Production	None		24,040		26	40	66	0.39
		Subtotals				**62,081**	**75,326**					
					No. Released		**137,407**	**0.45**	**150**	**228**	**378**	**0.40**
					1 Mark Group; 1 Mark Group Recovered in Fishery							
	Lemhi River Subtotals					**93,707**	**144,074**					
					No. Released		**237,781**	**0.39**	**753**	**736**	**1,489**	**0.51**
					2 Mark Groups; 2 Mark Groups Recovered in Fishery							
2001	A-1	Lemhi River at L6 diversion site	SFH	Production	CWT 10/57/70[c]	21,744			48	110	158	0.30
					CWT 10/58/70[c]	22,243			293	113	406	0.72
					CWT 10/59/70[c]	21,488			32	109	141	0.23
					None		2,025		12	10	22	0.55

Appendix D. Continued.

Release Year	Stock and Ocean Age	Release Site	Stock Name[a]	Marking Purpose	Tags	No. of Fish Released Tagged	Untagged	Mark Rate	Estimated No. of Fish Harvest	Hatchery Returns[b]	Total	Exploitation Rate
Fall 2002–Spring 2003 Season, continued.												
			PFH	Supplementation	None		1,269		7	6	13	0.54
	Lemhi River at L6 diversion Subtotals					**65,475**	**3,294**					
							68,769	**0.95**	**392**	**348**	**740**	**0.53**
					3 Mark Groups; 3 Mark Groups Recovered in Fishery							
2001	A-1	Lemhi River at County scale	SFH	Supplementation	None		21,206		127	107	234	0.54
			PFH	Production	None		20,448		123	104	227	0.54
	Lemhi River at County Scale Subtotals					**0**	**41,654**					
					No. Released		**41,654**	**0**	**250**	**211**	**461**	**0.54**
					0 Mark Groups							
2001	A-1	Lemhi River at Hayden Creek	PFH	Supplementation	None		34,052		205	172	377	0.54
	Lemhi River at Hayden Creek Subtotals					**0**	**34,052**					
					No. Released		**34,052**	**0**	**205**	**172**	**377**	**0.54**
					0 Mark Groups							
2001	A-1	Hayden Creek Hatchery	PFH	Production	None		40,044		241	203	444	0.54
	Hayden Creek Hatchery Subtotals					**0**	**40,044**					
					No. Released		**40,044**	**0**	**241**	**203**	**444**	**0.54**
					0 Mark Groups							
2001	A-1	Hayden Creek at Basin Creek	PFH	Supplementation	None		39,819		239	202	441	0.54
	Hayden Creek at Basin Creek Subtotals					**0**	**39,819**					
					No. Released		**39,819**	**0**	**239**	**202**	**441**	**0.54**
					0 Mark Groups							
2001	A-1	Salmon River at Red Rock	SFH	Production	CWT 10/60/70[c]	22,310			94	113	207	0.45
					CWT 10/61/70[c]	21,856			69	111	180	0.38
					CWT 10/62/70[c]	21,222			230	107	337	0.68
					None		2,022		12	10	22	0.55
		Subtotals				**65,388**	**2,022**					
					No. Released		**67,410**	**0.97**	**405**	**341**	**746**	**0.54**
					3 Mark Groups; 3 Mark Groups Recovered in Fishery							
2000	A-2	Salmon River at Red Rock	PFH	Contribution	None		62,670		69	104	173	0.40
		Subtotals				**0**	**62,670**					
					No. Released		**62,670**	**0**	**69**	**104**	**173**	**0.40**
					0 Mark Groups							

Appendix D. Continued.

Release Year	Stock and Ocean Age	Release Site	Stock Name[a]	Marking Purpose	Tags	No. of Fish Released Tagged	Untagged	Mark Rate	Estimated No. of Fish Harvest	Hatchery Returns[b]	Total	Exploitation Rate
Fall 2002–Spring 2003 Season, continued.												
	Salmon River at Red Rock Subtotals					**65,388**	**64,692**					
					No. Released		**130,080**	**0.50**	**474**	**445**	**919**	**0.52**
					3 Mark Group; 3 Mark Group Recovered in Fishery							
2001	A-1	Salmon River at Wagonhammer	SFH	Production	None		67,950		408	344	752	0.54
		Subtotals				**0**	**67,950**					
					No. Released		**67,950**	**0**	**408**	**344**	**752**	**0.54**
					0 Mark Groups							
2000	A-2	Salmon River at Wagonhammer	SFH	Production	None		1,845		43	65	108	0.40
			PFH	Production	None		39,246		2	3	5	0.40
		Subtotals				**0**	**41,091**					
					No. Released		**41,091**	**0**	**45**	**68**	**113**	**0.40**
					0 Mark Groups							
	Salmon River at Wagonhammer Subtotals					**0**	**109,041**					
					No. Released		**109,041**	**0**	**453**	**412**	**865**	**0.52**
					0 Mark Groups							
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		**76,182**	**0**	**458**	**386**	**844**	**0.54**
					0 Mark Groups							
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**
					0 Mark Groups							
	Salmon River at Lewis and Clark Sign Subtotals					**0**	**137,914**					
					No. Released		**137,914**	**0**	**526**	**489**	**1,015**	**0.52**
					0 Mark Groups							
2001	A-1	Salmon River at Hammer Creek	PFH	Production	CWT 10/54/70[c]	20,080			201	102	303	0.66
					CWT 10/55/70[c]	22,239			101	113	214	0.47
2001	A-1	Salmon River at Hammer Creek			CWT 10/56/70[c]	21,969			151	111	262	0.58
					None		111,097		783	563	1,346	0.58
	Salmon River at Hammer Creek Subtotals					**64,288**	**111,097**					
					No. Released		**175,385**	**0.37**	**1,236**	**889**	**2,125**	**0.58**
					3 Mark Groups; 3 Mark Groups Recovered in Fishery							

Appendix D. Continued.

Release Year	Stock and Ocean Age	Release Site	Stock Name[a]	Marking Purpose	Tags	No. of Fish Released Tagged	No. of Fish Released Untagged	Mark Rate	Estimated No. of Fish Harvest	Estimated No. of Fish Hatchery Returns[b]	Estimated No. of Fish 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				**0**	**430,210**					
					No. Released		**430,210**	**0**	**5,413**	**2,179**	**7,592**	**0.71**
					0 Mark Groups							
2000	A-2	Little Salmon River at Stinky Springs	HC	Contribution	None		115,423		853	192	1,045	0.82
		Subtotals				**0**	**115,423**					
					No. Released		**115,423**	**0**	**853**	**192**	**1,045**	**0.82**
					0 Mark Groups							
2001	B-1	Little Salmon River at Stinky Springs	DNFH	Production	CWT 10/51/70[c]	21,671			0	10	10	0
					CWT 10/52/70[c]	21,575			17	10	27	0.63
					CWT 10/53/70[c]	13,350			52	6	58	0.90
					None		1,750		2	1	3	0.67
		Subtotals				**56,596**	**1,750**					
					No. Released		**58,346**	**0.97**	**71**	**27**	**98**	**0.72**
					3 Mark Groups; 2 Mark Groups Recovered in Fishery							
2000	B-2	Little Salmon River at Stinky Springs	DNFH	Contribution	CWT 10/36/05[c]	63,244			65	3	68	0.96
					None		232,640		5	0	5	1.00
					BWT 10/00/00	4,639			239	10	249	0.96
		Subtotals				**67,883**	**232,640**					
					No. Released		**300,523**	**0.23**	**309**	**13**	**322**	**0.96**
					2 Mark Groups; 1 Mark Groups Recovered in Fishery							
1999	B-3	Little Salmon River at Stinky Springs	DNFH	Contriblution	CWT 10/52/56	16,416			0	0	0	--
					None[c]		308,139		0	0	0	--
		Subtotals				**16,416**	**308,139**					
					No. Released		**324,555**	**0.05**	**0**	**0**	**0**	**--**
					1 Mark Group; 0 Mark Groups Recovered in Fishery							
	Little Salmon River at Stinky Springs Subtotals					**140,895**	**1,088,162**					
					No. Released		**1,229,057**	**0.11**	**6,646**	**2,411**	**9,057**	**0.73**
					6 Mark Groups; 3 Mark Groups Recovered in Fishery							
2000	B-2	South Fork Clearwater River at Mill Creek	DNFH	Production	None[e]		19,556		No Estimates Made			
	South Fork Clearwater River at Mill Creek Subtotals					**0**	**19,556**					
					No. Released		**19,556**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							

Appendix D. Continued.

Release Year	Stock and Ocean Age	Release Site	Stock Name[a]	Marking Purpose	Tags	No. of Fish Released Tagged	No. of Fish Released Untagged	Mark Rate	Estimated No. of Fish Harvest	Estimated No. of Fish Hatchery Returns[b]	Estimated No. of Fish Total	Exploitation Rate
Fall 2002–Spring 2003 Season, continued.												
2000	B-2	South Fork Clearwater River at Meadow Creek	DNFH	Supplementation; Late Eggs	None[e]		19,557		No Estimates Made			
South Fork Clearwater River at Meadow Creek Subtotals						**0**	**19,557**					
					No. Released		**19,557**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
2000	B-2	Red River	DNFH	Supplementation; Late Eggs	None[e]		30,480		No Estimates Made			
Red River Subtotals						**0**	**30,480**					
					No. Released		**30,480**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
2000	B-2	American River	DNFH	Supplementation; Late Eggs	None[c,e]		96,187		No Estimates Made			
American River Subtotals						**0**	**96,187**					
					No. Released		**96,187**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
2000	B-2	Newsome Creek	DNFH	Supplementation; Late Eggs	None[c,e]		100,078		No Estimates Made			
Newsome Creek Subtotals						**0**	**100,078**					
					No. Released		**100,078**	**--**	**--**	**--**	**--**	**--**
Releases from Magic Valley Fish Hatchery												
		"A" Stock Releases (with adipose fin clips)				**500,168**	**2,058,215**					
					No. Released		**2,558,383**	**0.20**	**13,765**	**9,556**	**23,321**	**0.59**
					19 Mark Groups; 18 Mark Groups Recovered in Fishery							
		"B" Stock Releases (with adipose fin clips)				**504,340**	**1,805,148**					
					No. Released		**2,309,488**	**0.22**	**2,757**	**84**	**2,841**	**0.96**
					20 Mark Groups; 9 Mark Groups Recovered in Fishery							
		Total Releases with Adipose Fin Clips				**1,004,508**	**3,863,363**					
					No. Released		**4,867,871**	**0.21**	**16,522**	**9,640**	**26,162**	**0.63**
					39 Marak Groups; 27 Mark Groups Recovered in Fishery							
		Releases without Adipose Fin Clips				**0**	**265,858**					
					No. Released		**265,858**	**--**	**--**	**--**	**--**	--
					0 Mark Groups							

Appendix D. Continued.

Release Year	Stock and Ocean Age	Release Site	Stock Name[a]	Marking Purpose	Tags	No. of Fish Released Tagged	No. of Fish Released Untagged	Mark Rate	Estimated No. of Fish Harvest	Estimated No. of Fish Hatchery Returns[b]	Estimated No. of Fish Total	Exploitation Rate
Fall 2002–Spring 2003 Season, continued.												
				CLEARWATER FISH HATCHERY RELEASES								
1999	B-3	Red River at Soda Creek Bridge	DNFH	Supplementation	None[c,e]		4,993		No Estimates Made			
		Subtotals				**0**	**4,993**					
					No. Released		**4,993**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
2001	B-1	Red River	DNFH	Supplementation; Late eggs	None[e,f]		149,346		No Estimates Made			
		Subtotals				**0**	**149,346**					
					No. Released		**149,346**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
	Red River Supplementation Subtotals					**0**	**154,339**					
					No. Released		**154,339**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
2001	B-1	Red River	DNFH	Production	None		99,924		114	49	163	0.70
	Red River Subtotals					**0**	**99,924**					
					No. Released		**99,924**	**0**	**114**	**49**	**163**	**0.70**
					0 Mark Groups							
2000	B-2	Red River Rearing Ponds	DNFH	Nez Perce Tribe Release	None[c,e]		139,662		No Estimates Made			--
	Red River Rearing Ponds Subtotals					**0**	**139,662**					
					No. Released		**139,662**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
2001	B-1	South Fork Clearwater River at Meadow Creek	DNFH	Supplementation; Late eggs	None[e]		23,459		No Estimates Made			
	South Fork Clearwater River at Meadow Creek Subtotals					**0**	**23,459**					
					No. Released		**23,459**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
2001	B-1	South Fork Clearwater River at Mill Creek	DNFH	Supplementation; Late eggs	None[e,f]		24,549		No Estimates Made			
	South Fork Clearwater River at Mill Creek Subtotals					**0**	**24,549**					
					No. Released		**24,549**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							

Appendix D. Continued.

Release Year	Stock and Ocean Age	Release Site	Stock Name[a]	Marking Purpose	Tags	No. of Fish Released Tagged	No. of Fish Released Untagged	Mark Rate	Estimated No. of Fish Harvest	Estimated No. of Fish Hatchery Returns[b]	Estimated No. of Fish Total	Exploitation Rate
Fall 2002–Spring 2003 Season, continued.												
2001	B-1	South Fork Clearwater River at Red House Hole	DNFH	Production	CWT 10/48/26[c]		20,736		8	10	18	0.44
					CWT 10/48/27[c]		22,076		0	11	11	0
					CWT 10/48/28[c]		20,914		65	10	75	0.87
					None		34,040		39	17	56	0.70
		Subtotals				**0**	**97,766**					
					No. Released		**97,766**	**0**	**112**	**48**	**160**	**0.70**
					3 Mark Groups; 2 Mark Groups Recovered in Fishery							
2000	B-2	South Fork Clearwater River at Red House Hole	DNFH	Contribution	CWT 10/54/26[c]	32,101			232	113	345	0.67
					CWT 10/54/08[c]	31,196			535	116	651	0.82
					None		248,119		3007	895	3902	0.77
		Subtotals				**63,297**	**248,119**					
					No. Released		**311,416**	**0.20**	**3,774**	**1,124**	**4,898**	**0.77**
					2 Mark Groups; 2 Mark Groups Recovered in Fishery							
1999	B-3	South Fork Clearwater River at Red House Hole	DNFH	Contribution	CWT 10/52/35	20,645			0	8	8	0
					CWT 10/52/36[c]	21,200			0	7	7	0
					CWT 10/52/37	20,763			0	7	7	0
					None		337,858		0	121	121	0
		Subtotals				**62,608**	**337,858**					
					No. Released		**400,466**	**0.16**	**0**	**143**	**143**	**0**
					3 Mark Groups; 0 Mark Groups Recovered in Fishery							
	South Fork Clearwater River Subtotals					**125,905**	**683,743**					
					No. Released		**809,648**	**0.16**	**3,886**	**1,315**	**5,201**	**0.75**
					8 Mark Groups; 4 Mark Groups Recovered in Fishery							
2001	B-1	Clear Creek	DNFH	Supplementation; Late eggs	CWT 10/48/02	21,439			0	2	2	0
					None		76,101		0	7	7	0
		Subtotals				**21,439**	**76,101**					
					No. Released		**97,540**	**0.22**	**0**	**9**	**9**	**0**
					1 Mark Group; 0 Mark Groups Recovered in Fishery							
2000	B-2	Clear Creek	DNFH	Contribution	CWT 10/54/19[c]	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 (Feed Exp.)	CWT 10/52/33[c]	20,668			0	0	0	--
					None		110,901		0	0	0	--

Appendix D. Continued.

Release Year	Stock and Ocean Age	Release Site	Stock Name[a]	Marking Purpose	Tags	No. of Fish Released Tagged	No. of Fish Released Untagged	Mark Rate	Estimated No. of Fish Harvest	Estimated No. of Fish Hatchery Returns[b]	Estimated No. of Fish Total	Exploitation Rate
Fall 2002–Spring 2003 Season, continued.												
1999	B-3	Clear Creek, continued.	DNFH	Bio-Diet Feed (Feed Exp.)	CWT 10/52/34[c]	20,322			0	0	0	--
					None		38,648		0	0	0	--
		Subtotals				**40,990**	**149,549**					
					No. Released		**190,539**	**0.22**	**0**	**0**	**0**	**--**
					2 Mark Groups; 0 Mark Groups Recovered in Fishery							
	Clear Creek Subtotals					**105,804**	**366,132**					
					No. Released		**471,936**	**0.22**	**1,081**	**268**	**1,349**	**0.80**
					4 Mark Groups; 1 Mark Group Recovered in Fishery							
2001	B-1	Crooked River	DNFH	Supplementation	BWT 10/00/00[c,e]	20,000			No Estimates Made			
					None[e]		76,632		No Estimates Made			
	Crooked River Supplementation Subtotals					**20,000**	**76,632**					
					No. Released		**96,632**	**--**	**--**	**--**	**--**	**--**
					1 Mark Group; 0 Mark Groups Recovered in Fishery							
2001	B-1	Crooked River	DNFH	Production	CWT 10/48/23[c]	22,679			0	11	11	0
					CWT 10/48/24[c]	22,010			0	11	11	0
					CWT 10/48/25[c]	21,977			0	11	11	0
					None		82,249		0	41	41	0
	Crooked River Subtotals					**66,666**	**82,249**					
					No. Released		**148,915**	**0.45**	**0**	**74**	**74**	**0**
					4 Mark Groups; 0 Mark Groups Recovered in Fishery							
2000	B-2	Crooked River Ponds	DNFH	Nez Perce Tribe Release	None[c,e]		100,331		No Estimates Made			
	Crooked River Ponds Subtotals					**0**	**100,331**					
					No. Released		**100,331**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
2001	B-1	Lolo Creek	DNFH	Supplementation; Late eggs	None[e]		48,523		No Estimates Made			
	Lolo Creek Subtotals					**0**	**48,523**					
					No. Released		**48,523**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
Releases from Clearwater Fish Hatchery												
		"B" Stock Releases (with adipose fin clips)				**298,375**	**1,232,048**					
					No. Released		**1,530,423**	**0.19**	**5,081**	**1,706**	**6,787**	**0.75**
					15 Mark Groups; 5 Mark Groups Recovered in Fishery							

Appendix D. Continued.

Release Year	Stock and Ocean Age	Release Site	Stock Name[a]	Marking Purpose	Tags	No. of Fish Released Tagged	No. of Fish Released Untagged	Mark Rate	Estimated No. of Fish Harvest	Estimated No. of Fish Hatchery Returns[b]	Estimated No. of Fish Total	Exploitation Rate
Fall 2002–Spring 2003 Season, continued.												
		Releases without Adipose Fin Clips				**20,000**	**567,495**					
					No. Released		**587,495**	**--**	**--**	**--**	**--**	**--**
					1 Mark Group; 0 Mark Groups Recovered in Fishery							
Total Returns for Run Year 2002-2003												
		Releases with Adipose Fin Clips				**1,596,178**	**6,684,831**					
					No. Released		**8,281,009**	**0.19**	**28,730**	**14,519**	**43,249**	**0.66**
					69 Mark Groups; 46 Mark Groups Recovered in Fishery							
		Releases without Adipose Fin Clips				**37,581**	**1,337,226**					
					No. Released		**1,374,807**	**--**	**--**	**--**	**--**	**--**
					2 Mark Groups; 0 Mark Groups Recovered in Fishery							
				HAGERMAN NATIONAL FISH HATCHERY RELEASES								
2002	A-1	Sawtooth Hatchery	SFH	Production	CWT 10/07/72	43,087			155	71	226	0.69
					None		738,050		2655	2143	4798	0.55
		Subtotals				**43,087**	**738,050**					
					No. Released		**781,137**	**0.06**	**2,810**	**2,214**	**5,024**	**0.56**
					1 Mark Group; 1 Mark Group Recovered in Fishery							
2001	A-2	Sawtooth Hatchery	SFH	Acclimated; Production	CWT 10/48/03	20,236			4	4	8	0.50
					CWT 10/48/05	18,445			0	0	0	--
					CWT 10/48/06	20,278			9	2	11	0.82
					None		512,185		113	146	259	0.44
			SFH	Production; Direct Release	None		136,690		30	39	69	0.43
		Subtotals				**58,959**	**648,875**					
					No. Released		**707,834**	**0.08**	**156**	**191**	**347**	**0.45**
					3 Mark Groups; 2 Mark Groups Recovered in Fishery							
	Sawtooth Hatchery Subtotals					**102,046**	**1,386,925**					
					No. Released		**1,488,971**	**0.07**	**2,966**	**2,405**	**5,371**	**0.55**
					4 Mark Groups; 3 Mark Groups Recovered in Fishery							
2002	A-1	Yankee Fork Salmon River dredge ponds	SFH	Supplementation	None[e]		139,445		No Estimates Made			
		Subtotals				**0**	**139,445**					
					No. Released		**139,445**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							

Appendix D. Continued.

Release Year	Stock and Ocean Age	Release Site	Stock Name[a]	Marking Purpose	Tags	No. of Fish Released Tagged	No. of Fish Released Untagged	Mark Rate	Estimated No. of Fish Harvest	Estimated No. of Fish Hatchery Returns[b]	Estimated No. of Fish Total	Exploitation Rate
Fall 2003–Spring 2004 Season												
2001	A-2	Yankee Fork Salmon River dredge ponds	SFH	Supplementation	None[e]		137,656		No Estimates Made			
		Subtotals				**0**	**137,656**					
					No. Released		**137,656**	--	--	--	--	--
					0 Mark Groups							
	Yankee Fork Salmon River dredge pond Subtotals					**0**	**277,101**					
					No. Released		**277,101**	--	--	--	--	--
					0 Mark Groups							
2002	A-1	Little Salmon River at Highway 95 Bridge	PFH	Production	None[e]		218,124		No Estimates Made			
	Little Salmon River at Highway 95 Bridge Subtotals					**0**	**218,124**					
					No. Released		**218,124**	--	--	--	--	--
					0 Mark Groups							
2001	A-2	Little Salmon River at Stinky Springs	PFH	Supplementation	CWT 10/48/04[e]	17,581			No Estimates Made			
					None[e]		139,031		No Estimates Made			
		Subtotals				**17,581**	**139,031**					
	Little Salmon River Subtotals				**No. Released**		**156,612**	--	--	--	--	--
					1 Mark Group; 0 Mark Groups Recovered in Fishery							
2001	A-2	Hazard Creek	PFH	Supplementation	None[e]		50,557		No Estimates Made			--
	Hazard Creek Subtotals					**0**	**50,557**					
					No. Released		**50,557**	--	--	--	--	--
					0 Mark Groups							
2001	B-2	Newsome Creek	DNFH	Supplementation	None[e]		86,441		No Estimates Made			
	Newsome Creek Subtotals					**0**	**86,441**					
					No. Released		**86,441**	--	--	--	--	--
					0 Mark Groups							
2002	B-1	American River	DNFH	Nez Perce Tribe Agreement	None[e]		94,232		No Estimates Made			
		Subtotals				**0**	**94,232**	--	--	--	--	--
					No. Released		**94,232**					
					0 Mark Groups							
2001	B-2	American River	DNFH	Supplementation	None[e]		90,188		No Estimates Made			
		Subtotals				**0**	**90,188**					
					No. Released		**90,188**	--	--	--	--	--
					0 Mark Groups							

Appendix D. Continued.

Release Year	Stock and Ocean Age	Release Site	Stock Name[a]	Marking Purpose	Tags	No. of Fish Released Tagged	No. of Fish Released Untagged	Mark Rate	Estimated No. of Fish Harvest	Estimated No. of Fish Hatchery Returns[b]	Estimated No. of Fish Total	Exploitation Rate
Fall 2003–Spring 2004 Season, continued.												
	American River Subtotals					**0**	**184,420**					
					No. Released		**184,420**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
Releases from Hagerman National Fish Hatchery												
		("A" Stock Releases)				**102,046**	**1,386,925**					
		(with adipose fin clips)			**No. Released**		**1,488,971**	**0.07**	**2,966**	**2,405**	**5,371**	**0.55**
					4 Mark Groups; 3 Mark Groups Recovered in Fishery							
		Releases without Adipose Fin Clips				**17,581**	**955,674**					
		(Both "A" and "B" Stock Released)			**No. Released**		**973,255**	**--**	**--**	**--**	**--**	--
					1 Mark Group; 0 Mark Groups Recovered in Fishery							
				MAGIC VALLEY FISH HATCHERY RELEASES								
2001	B-2	Sawtooth Hatchery	DNFH	Production	None		1,145		1	0	1	1.00
	Sawtooth Hatchery Subtotals					**0**	**1,145**					
					No. Released		**1,145**	**0**	**1**	**0**	**1**	**1.00**
					0 Mark Groups							
2002	A-1	Yankee Fork Salmon River dredge ponds	SFH	Production	None		99,738		359	290	649	0.55
	Yankee Fork Salmon River dredge ponds Subtotals					**0**	**99,738**					
					No. Released		**99,738**	**0**	**359**	**290**	**649**	**0.55**
					0 Mark Groups							
2001	A-2	Yankee Fork Salmon River at 3rd bridge up	SFH	Production	None[c]		98,623		22	28	50	0.44
	Yankee Fork Salmon River Subtotals					**0**	**98,623**					
					No. Released		**98,623**	**0**	**22**	**28**	**50**	**0.44**
					0 Mark Groups							
2002	B-1	Squaw Creek ponds	DNFH	Production	None		96,440		0	1	1	0
		Subtotals				**0**	**96,440**					
					No. Released		**96,440**	**0**	**0**	**1**	**1**	**0**
					0 Mark Groups							
2001	B-2	Squaw Creek pond	DNFH	Production	None		75,912		42	2	44	0.95
		Subtotals				**0**	**75,912**					
					No. Released		**75,912**	**0**	**42**	**2**	**44**	**0.95**
					0 Mark Groups							

Appendix D. Continued.

Release Year	Stock and Ocean Age	Release Site	Stock Name[a]	Marking Purpose	Tags	No. of Fish Released Tagged	No. of Fish Released Untagged	Mark Rate	Estimated No. of Fish Harvest	Estimated No. of Fish Hatchery Returns[b]	Estimated No. of Fish Total	Exploitation Rate
Fall 2003–Spring 2004 Season, continued.												
2000	B-3	Squaw Creek Ponds	DNFH	Production	None		106,135		9	0	9	1.04
		Subtotals				**0**	**106,135**					
					No. Released		**106,135**	**0**	**9**	**0**	**9**	**1.04**
					0 Mark Groups							
	Squaw Creek Pond Subtotals					**0**	**278,487**					
					No. Released		**278,487**	**0**	**51**	**3**	**54**	**0.95**
					0 Mark Groups							
2002	B-1	Squaw Creek (upper)	DNFH	Production/ Squaw Creek	CWT 10/93/71	31,518			2	1	3	0.67
					None		198,660		13	3	16	0.81
			EF	Production/ Squaw Creek	CWT 10/66/70	20,439			26	1	27	0.96
					CWT 10/10/72	9,893			7	1	8	0.88
					None		29,024		32	1	33	0.97
		Subtotals				**61,850**	**227,684**					
					No. Released		**289,534**	**0.21**	**80**	**7**	**87**	**0.92**
					3 Mark Groups; 3 Mark Groups Recovered in Fishery							
2001	B-2	Squaw Creek (upper)	EF	Production	CWT 10/48/15[c]	19,332			10	5	15	0.67
					CWT 10/48/16[c]	17,551			36	5	41	0.88
2001	B-2	Squaw Creek (upper), Continued.			None		1,141		1	0	1	1.00
			DNFH	Production	BWT 10/00/00	8,164			4	0	4	1.00
			DNFH	Production	CWT 10/48/21[c]	18,730			15	0	15	1.00
					CWT 10/48/22[c]	17,810			5	0	5	1.00
					None		85,733		47	2	49	0.96
		Subtotals				**81,587**	**86,874**					
					No. Released		**168,461**	**0.48**	**118**	**12**	**130**	**0.91**
					5 Mark Groups; 4 Mark Groups Recovered in Fishery							
2000	B-3	Squaw Creek (upper)	DNFH	Contribution	CWT 10/54/13[c]	50,820			0	0	0	--
					CWT 10/46/47[c]	10,523			5	0	5	1.00
					BWT 10/00/00	347			0	0	0	1.00
					None		131,946		11	0	11	--
			EF	Production	None[c]		51,866		4	0	4	1.00
		Subtotals				**61,690**	**183,812**					
					No. Released		**245,502**	**0.25**	**20**	**0**	**20**	**1.00**
					3 Mark Groups; 1 Mark Groups Recovered in Fishery							
	Squaw Creek Subtotals					**205,127**	**498,370**					
					No. Released		**703,497**	**0.29**	**218**	**19**	**237**	**0.92**
					11 Mark Groups; 8 Mark Groups Recovered in Fishery							

Appendix D. Continued.

Release Year	Stock and Ocean Age	Release Site	Stock Name[a]	Marking Purpose	Tags	No. of Fish Released Tagged	No. of Fish Released Untagged	Mark Rate	Estimated No. of Fish Harvest	Estimated No. of Fish Hatchery Returns[b]	Estimated No. of Fish Total	Exploitation 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
		Subtotals				**0**	**214,252**					
					No. Released		**214,252**	**0**	**14**	**3**	**17**	**0.82**
					0 Mark Groups							
2001	B-2	East Fork Salmon River at dumpster	DNFH	Production	None		51,810		28	14	42	0.67
		Subtotals				**0**	**51,810**					
					No. Released		**51,810**	**0**	**28**	**14**	**42**	**0.67**
					0 Mark Groups							
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		**239,981**	**0**	**20**	**0**	**20**	**1.00**
					0 Mark Groups							
	East Fork Salmon River at Dumpster Subtotals					**0**	**506,043**					
					No. Released		**506,043**	**0**	**62**	**17**	**79**	**0.78**
					0 Mark Groups							
2002	B-1	East Fork Salmon River trap	EF	East Fork Natural Program	None[e]		3,800		No Estimates Made			
	East Fork Salmon River Trap Subtotals					**0**	**3,800**					
					No. Released		**3,800**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
2002	A-1	Salmon River at Tunnel Rock	SFH	Production	None		49,800		81	361	442	0.18
		Subtotals				**0**	**49,800**					
					No. Released		**49,800**	**0**	**81**	**361**	**442**	**0.18**
					0 Mark Groups							
2001	A-2	Salmon River at Tunnel Rock	SFH	Production	CWT 10/48/18[c]	21,486			20	13	33	0.61
					CWT 10/48/19[c]	21,061			187	12	199	0.94
					CWT 10/48/20[c]	20,775			5	12	17	0.29
					None		1,958		7	1	8	0.88
		Subtotals				**63,322**	**1,958**					
					No. Released		**65,280**	**0.97**	**219**	**38**	**257**	**0.85**
					3 Mark Groups; 3 Mark Groups Recovered in Fishery							

Appendix D. Continued.

Release Year	Stock and Ocean Age	Release Site	Stock Name[a]	Marking Purpose	Tags	No. of Fish Released Tagged	No. of Fish Released Untagged	Mark Rate	Estimated No. of Fish Harvest	Estimated No. of Fish Hatchery Returns[b]	Estimated No. of Fish Total	Exploitation Rate
Fall 2003–Spring 2004 Season, continued.												
	Salmon River at Tunnel Rock Subtotals					**63,322**	**51,758**					
					No. Released		**115,080**	**0.55**	**300**	**399**	**699**	**0.43**
					3 Mark Groups; 3 Mark Groups Recovered in Fishery							
2002	A-1	Salmon River at Challis	SFH	Production	CWT 10/11/72	10,943			16	79	95	0.17
					CWT 10/67/70	21,504			37	156	193	0.19
					None		25,153		41	182	223	0.18
		Subtotals				**32,447**	**25,153**					
					No. Released		**57,600**	**0.56**	**94**	**417**	**511**	**0.18**
					2 Mark Groups; 2 Mark Groups Recovered in Fishery							
2001	A-2	Salmon River at Challis	SFH	Production	None		41,850		140	25	165	0.85
		Subtotals				**0**	**41,850**					
					No. Released		**41,850**	**0**	**140**	**25**	**165**	**0.85**
					0 Mark Groups							
	Salmon River at Challis Subtotals					**32,447**	**67,003**					
					No. Released		**99,450**	**0.33**	**234**	**442**	**676**	**0.35**
					2 Mark Groups; 2 Mark Groups Recovered in Fishery							
2002	A-1	Salmon River at McNabbs Point	SFH	Production	None		70,590		115	511	626	0.18
		Subtotals				**0**	**70,590**					
					No. Released		**70,590**	**0**	**115**	**511**	**626**	**0.18**
					0 Mark Groups							
2001	A-2	Salmon River at 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 River at McNabbs Point Subtotals					**0**	**154,979**					
					No. Released		**154,979**	**0**	**398**	**561**	**959**	**0.42**
					0 Mark Groups							
2002	A-1	Salmon River at Cottonwood Campground	SFH	Production	None		62,048		101	449	550	0.18
		Subtotals				**0**	**62,048**					
					No. Released		**62,048**	**0**	**101**	**449**	**550**	**0.18**
					0 Mark Groups							

Appendix D. Continued.

Release Year	Stock and Ocean Age	Release Site	Stock Name[a]	Marking Purpose	Tags	No. of Fish Released Tagged	Untagged	Mark Rate	Estimated No. of Fish Harvest	Hatchery Returns[b]	Total	Exploitation 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				**0**	**77,790**					
					No. Released		**77,790**	**0**	**260**	**46**	**306**	**0.85**
					0 Mark Groups							
	Salmon River at Cottonwood Campground Subtotals					**0**	**139,838**					
					No. Released		**139,838**	**0**	**361**	**495**	**856**	**0.42**
					0 Mark Groups							
2002	A-1	Salmon River at Colston Corner	PFH	Production	None		39,005		195	283	478	0.41
		Subtotals				**0**	**39,005**					
					No. Released		**39,005**	**0**	**195**	**283**	**478**	**0.41**
					0 Mark Groups							
2001	A-2	Salmon River at Colston Corner	PFH	Production	None		50,300		53	30	83	0.64
		Subtotals				**0**	**50,300**					
					No. Released		**50,300**	**0**	**53**	**30**	**83**	**0.64**
					0 Mark Groups							
	Salmon River at Colston Corner Subtotals					**0**	**89,305**					
					No. Released		**89,305**	**0**	**248**	**313**	**561**	**0.44**
					0 Mark Groups							
2002	A-1	Salmon River at Eyehole	SFH	Production	None		41,350		68	300	368	0.18
		Subtotals				**0**	**41,350**					
					No. Released		**41,350**	**0**	**68**	**300**	**368**	**0.18**
					0 Mark Groups							
2001	A-2	Salmon River at Eyehole	SFH	Production	None		45,270		48	27	75	0.64
		Subtotals				**0**	**45,270**					
					No. Released		**45,270**	**0**	**48**	**27**	**75**	**0.64**
					0 Mark Groups							
	Salmon River at Eyehole Subtotals					**0**	**86,620**					
					No. Released		**86,620**	**0**	**116**	**327**	**443**	**0.26**
					0 Mark Groups							

Appendix D. Continued.

Release Year	Stock and Ocean Age	Release Site	Stock Name[a]	Marking Purpose	Tags	No. of Fish Released Tagged	Untagged	Mark Rate	Estimated No. of Fish Harvest	Hatchery Returns[b]	Total	Exploitation Rate
Fall 2003–Spring 2004 Season, continued.												
2002	A-1	Salmon River at Shoup Bridge	PFH	Production	None		63,000		331	456	787	0.42
		Subtotals				**0**	**63,000**					
					No. Released		**63,000**	**0**	**331**	**456**	**787**	**0.42**
					0 Mark Groups							
2001	A-2	Salmon River at Shoup Bridge	SFH	Production	CWT 10/48/35[c]	32,006			34	19	53	0.64
					None		28,986		31	17	48	0.65
		Subtotals				**32,006**	**28,986**					
					No. Released		**60,992**	**0.52**	**65**	**36**	**101**	**0.64**
					1 mark Group; 1 Mark Group Recovered in the Fishery							
	Salmon River at Shoup Bridge Subtotals					**32,006**	**91,986**					
					No. Released		**123,992**	**0.26**	**396**	**492**	**888**	**0.45**
					1 Mark Group; 1 Mark Group Recovered ikn the Fishery							
2002	A-1	Lemhi River at mouth	PFH	Production	None		84,608		445	613	1,058	0.42
		Subtotals				**0**	**84,608**					
					No. Released		**84,608**	**0**	**445**	**613**	**1,058**	**0.42**
					0 Mark Groups							
2001	A-2	Lemhi River at mouth	SFH	Production	CWT 10/48/36	31,626			47	19	66	0.71
					None		68,748		102	40	142	0.72
		Subtotals				**31,626**	**68,748**					
					No. Released		**100,374**	**0.32**	**149**	**59**	**208**	**0.72**
					1 Mark Group; 1 Mark Group Recovered in Fishery							
	Lemhi River at Mouth Subtotals					**31,626**	**153,356**					
					No. Released		**184,982**	**0.17**	**594**	**672**	**1,266**	**0.47**
					1 Mark Group; 1 Mark Group Recovered in Fishery							
2002	A-1	Lemhi River at St. Charles Bridge	PFH	Production	None[e,f]		72,442		No Estimates Made			
	Lemhi River at St. Charles Bridge (not adipose fin clipped) Subtotals					**0**	**72,442**					
					No. Released		**72,442**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
2002	A-1	Lemhi River at St. Charles Bridge	PFH	Production	CWT 10/68/70	21,328			113	154	267	0.42
					CWT 10/12/72	10,833			56	78	134	0.42
					None		118,915		625	861	1,486	0.42
	Lemhi River at St. Charles Bridge Subtotals					**32,161**	**118,915**					
					No. Released		**151,076**	**0.21**	**794**	**1,093**	**1,887**	**0.42**
					2 Mark Groups; 2 Mark Groups Recovered in Fishery							

Appendix D. Continued.

Release Year	Stock and Ocean Age	Release Site	Stock Name[a]	Marking Purpose	Tags	No. of Fish Released Tagged	Untagged	Mark Rate	Estimated No. of Fish Harvest	Hatchery Returns[b]	Total	Exploitation Rate
Fall 2003–Spring 2004 Season, continued.												
2001	A-2	Lemhi River at L6 diversion site	SFH	Production	CWT 10/57/70[c]	21,744			2	13	15	0.13
					CWT 10/58/70[c]	22,243			2	13	15	0.13
					CWT 10/59/70[c]	21,488			9	13	22	0.41
					None		2,025		0	1	1	0
			PFH	Supplementation	None		1,269		0	1	1	0
	Lemhi River at L6 diversion Subtotals					**65,475**	**3,294**					
							68,769	**0.95**	**13**	**41**	**54**	**0.24**
					3 Mark Groups; 3 Mark Groups Recovered in Fishery							
2001	A-2	Lemhi River at County scale	SFH	Supplementation	None		21,206		4	12	16	0.25
			PFH	Production	None		20,448		4	12	16	0.25
	Lemhi River at County Scale Subtotals					**0**	**41,654**					
					No. Released		**41,654**	**0**	**8**	**24**	**32**	**0.25**
					0 Mark Groups							
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**	**34,052**					
					No. Released		**34,052**	**0**	**7**	**20**	**27**	**0.26**
					0 Mark Groups							
2002	A-1	Hayden Creek Hatchery	PFH	Production	None		37,500		197	272	469	0.42
		Subtotals				**0**	**37,500**					
					No. Released		**37,500**	**0**	**197**	**272**	**469**	**0.42**
					0 Mark Groups							
2001	A-2	Hayden Creek Hatchery	PFH	Production	None		40,044		8	24	32	0.25
		Subtotals				**0**	**40,044**					
					No. Released		**40,044**	**0**	**8**	**24**	**32**	**0.25**
					0 Mark Groups							
	Hayden Creek Hatchery Subtotals					**0**	**77,544**					
					No. Released		**77,544**	**0**	**205**	**296**	**501**	**0.41**
					0 Mark Groups							
2001	A-2	Hayden Creek at Basin Creek	PFH	Supplementation	None		39,819		8	23	31	0.26
	Hayden Creek at Basin Creek Subtotals					**0**	**39,819**					
					No. Released		**39,819**	**0**	**8**	**23**	**31**	**0.26**
					0 Mark Groups							

Appendix D. Continued.

Release Year	Stock and Ocean Age	Release Site	Stock Name[a]	Marking Purpose	Tags	No. of Fish Released Tagged	No. of Fish Released Untagged	Mark Rate	Estimated No. of Fish Harvest	Estimated No. of Fish Hatchery Returns[b]	Estimated No. of Fish Total	Exploitation Rate
Fall 2003–Spring 2004 Season, continued.												
2002	A-1	Salmon River at Red 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		**41,438**	**0**	**191**	**300**	**491**	**0.39**
					0 Mark Groups							
2001	A-2	Salmon River at Red Rock	SFH	Production	CWT 10/60/70[c]	22,310			40	13	53	0.75
					CWT 10/61/70[c]	21,856			15	13	28	0.54
					CWT 10/62/70[c]	21,222			27	12	39	0.69
					None		2,022		3	1	4	0.75
		Subtotals				**65,388**	**2,022**					
					No. Released		**67,410**	**0.97**	**85**	**39**	**124**	**0.69**
					3 Mark Groups; 3 Mark Groups Recovered in Fishery							
	Salmon River at Red Rock Subtotals					**65,388**	**43,460**					
					No. Released		**108,848**	**0.60**	**276**	**339**	**615**	**0.45**
					3 Mark Group; 3 Mark Group Recovered in Fishery							
2002	A-1	Salmon River at Wagonhammer Spring	PFH	Production	None		49,194		259	356	615	0.42
		Subtotals				**0**	**49,194**					
					No. Released		**49,194**	**0**	**259**	**356**	**615**	**0.42**
					0 Mark Groups							
2001	A-2	Salmon River at Wagonhammer	SFH	Production	None		67,950		85	40	125	0.68
		Subtotals				**0**	**67,950**					
					No. Released		**67,950**	**0**	**85**	**40**	**125**	**0.68**
					0 Mark Groups							
	Salmon River at Wagonhammer Subtotals					**0**	**117,144**					
					No. Released		**117,144**	**0**	**344**	**396**	**740**	**0.46**
					0 Mark Groups							
2002	A-1	Salmon River at Lewis & Clark sign (North Fork)	PFH	Production	None		43,415		228	314	542	0.42
		Subtotals				**0**	**43,415**					
					No. Released		**43,415**	**0**	**228**	**314**	**542**	**0.42**
					0 Mark Groups							

Appendix D. Continued.

Release Year	Stock and Ocean Age	Release Site	Stock Name[a]	Marking Purpose	Tags	No. of Fish Released Tagged	No. of Fish Released Untagged	Mark Rate	Estimated No. of Fish Harvest	Estimated No. of Fish Hatchery Returns[b]	Estimated No. of Fish 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		**76,182**	**0**	**96**	**45**	**141**	**0.68**
					0 Mark Groups							
	Salmon River at Lewis and Clark Sign Subtotals					**0**	**119,597**					
					No. Released		**119,597**	**0**	**324**	**359**	**683**	**0.47**
					0 Mark Groups							
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		**179,722**	**0**	**899**	**1,302**	**2,201**	**0.41**
					0 Mark Groups							
2001	A-2	Salmon River at Hammer Creek	PFH	Production	CWT 10/54/70[c]	20,080			11	12	23	0.48
					CWT 10/55/70[c]	22,239			63	12	75	0.84
					CWT 10/56/70[c]	21,969			43	13	56	0.77
					None		111,097		202	65	267	0.76
		Subtotals				**64,288**	**111,097**					
					No. Released		**175,385**	**0.37**	**319**	**102**	**421**	**0.76**
					3 Mark Groups; 3 Mark Groups Recovered in Fishery							
	Salmon River at Hammer Creek Subtotals					**64,288**	**290,819**					
					No. Released		**355,107**	**0.18**	**1,218**	**1,404**	**2,622**	**0.46**
					3 Mark Groups; 3 Mark Groups Recovered in Fishery							
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		**54,000**	**0**	**270**	**391**	**661**	**0.41**
					0 Mark Groups							
2001	A-2	Little Salmon River at Stinky Springs	PFH	Production	None		430,210		783	253	1,036	0.76
		Subtotals				**0**	**430,210**					
					No. Released		**430,210**	**0**	**783**	**253**	**1,036**	**0.76**
					0 Mark Groups							

Appendix D. Continued.

Release Year	Stock and Ocean Age	Release Site	Stock Name[a]	Marking Purpose	Tags	No. of Fish Released Tagged	No. of Fish Released Untagged	Mark Rate	Estimated No. of Fish Harvest	Estimated No. of Fish Hatchery Returns[b]	Estimated No. of Fish 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				**0**	**105,167**					
					No. Released		**105,167**	**0**	**0**	**0**	**0**	**--**
					0 Mark Groups							
2001	B-2	Little Salmon River at Stinky Springs	DNFH	Production	CWT 10/51/70[c]	21,671			39	0	39	1.00
					CWT 10/52/70[c]	21,575			41	0	41	1.00
					CWT 10/53/70[c]	13,350			20	0	20	1.00
					None		1,750		3	0	3	1.00
		Subtotals				**56,596**	**1,750**					
					No. Released		**58,346**	**0.97**	**103**	**0**	**103**	**1.00**
					3 Mark Groups; 3 Mark Groups Recovered in Fishery							
2000	B-3	Little Salmon River at Stinky Springs	DNFH	Contribution	CWT 10/36/05[c]	63,244			0	0	0	--
					None		232,640		0	0	0	--
					BWT 10/00/00	4,639			0	0	0	--
		Subtotals				**67,883**	**232,640**					
					No. Released		**300,523**	**0.23**	**0**	**0**	**0**	**--**
					2 Mark Groups; 0 Mark Groups Recovered in Fishery							
	Little Salmon River at Stinky Springs Subtotals					**124,479**	**823,767**					
					No. Released		**948,246**	**0.13**	**1,159**	**644**	**1,800**	**0.64**
					5 Mark Groups; 3 Mark Groups Recovered in Fishery							
2000	B-3	South Fork Clearwater River at Mill Creek	DNFH	Production	None[e]		19,556		No Estimates Made			
	South Fork Clearwater River at Mill Creek Subtotals					**0**	**19,556**					
					No. Released		**19,556**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
2000	B-3	South Fork Clearwater River at Meadow Creek	DNFH	Supplementation; Late Eggs	None[e]		19,557		No Estimates Made			
	South Fork Clearwater River at Meadow Creek Subtotals					**0**	**19,557**					
					No. Released		**19,557**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
2000	B-3	Red River	DNFH	Supplementation; Late Eggs	None[e]		30,480		No Estimates Made			
	Red River Subtotals					**0**	**30,480**					
					No. Released		**30,480**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							

Appendix D. Continued.

Release Year	Stock and Ocean Age	Release Site	Stock Name[a]	Marking Purpose	Tags	No. of Fish Released Tagged	No. of Fish Released Untagged	Mark Rate	Estimated No. of Fish Harvest	Estimated No. of Fish Hatchery Returns[b]	Estimated No. of Fish Total	Exploitation Rate
Fall 2003–Spring 2004 Season, continued.												
2000	B-2	American River	DNFH	Supplementation; Late Eggs	None[c,e]		96,187		No Estimates Made			
	American River Subtotals					**0**	**96,187**					
					No. Released		**96,187**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
2000	B-3	Newsome Creek	DNFH	Supplementation; Late Eggs	None[c,e]		100,078		No Estimates Made			
	Newsome Creek Subtotals					**0**	**100,078**					
					No. Released		**100,078**	**--**	**--**	**--**	**--**	**--**
Releases from Magic Valley Fish Hatchery												
		"A" Stock Releases				**386,713**	**2,403,714**					
		(with adipose fin clips)			**No. Released**		**2,790,427**	**0.14**	**7,278**	**8,658**	**15,936**	**0.46**
					18 Mark Groups; 18 Mark Groups Recovered in Fishery							
		"B" Stock Releases				**329,606**	**1,623,602**					
		(with adipose fin clips)			**No. Released**		**1,953,208**	**0.17**	**435**	**39**	**474**	**0.92**
					16 Mark Groups; 11 Mark Groups Recovered in Fishery							
	Total Releases with Adipose Fin Clips					**716,319**	**4,027,316**					
					No. Released		**4,743,635**	**0.15**	**7,713**	**8,697**	**16,410**	**0.47**
					34 Mark Groups; 29 Mark Groups Recovered in Fishery							
	Releases without Adipose Fin Clips					**0**	**342,100**					
					No. Released		**342,100**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
				CLEARWATER FISH HATCHERY RELEASES								
2002	B-1	Red River	DNFH	LSRCP Production	None		31,306		12	0	12	**1.00**
2002	B-1	Red River	DNFH	Supplementation	None[e,f]		150,010		No Estimates Made			
		Subtotals				**0**	**181,316**					
					No. Released		**181,316**	**0**	**12**	**0**	**12**	**1.00**
					0 Mark Groups							
2001	B-2	Red River	DNFH	Production	None		99,924		145	0	145	1.00
				Supplementation; Late eggs	None[e,f]		149,346		No Estimates Made			
		Subtotals				**0**	**249,270**					
					No. Released		**249,270**	**0**	**145**	**0**	**145**	**1.00**
					0 Mark Groups							

Appendix D. Continued.

Release Year	Stock and Ocean Age	Release Site	Stock Name[a]	Marking Purpose	Tags	No. of Fish Released Tagged	No. of Fish Released Untagged	Mark Rate	Estimated No. of Fish Harvest	Estimated No. of Fish Hatchery Returns[b]	Estimated No. of Fish Total	Exploitation Rate
Fall 2003–Spring 2004 Season, continued.												
2000	B-3	Red River Rearing Ponds	DNFH	Nez Perce Tribe Release	None[c,e]		139,662		No Estimates Made			
		Subtotals				**0**	**139,662**					
					No. Released		**139,662**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
	Red River Subtotals					**0**	**570,248**					
					No. Released		**570,248**	**0**	**157**	**0**	**157**	**1.00**
					0 Mark Groups							
2002	B-1	North Fork Clearwater River at Ahsahka ramp	DNFH	Surplus Production	None		63,957		24	0	24	1.00
	North Fork Clearwater River at Ahsahka ramp Subtotals					**0**	**63,957**					
					No. Released		**63,957**	**0**	**24**	**0**	**24**	**1.00**
					0 Mark Groups							
2002	B-1	South Fork Clearwater River at Meadow Creek	DNFH	NPT Supplementation	None[e]		26,460		No Estimates Made			
		Subtotals				**0**	**26,460**					
					No. Released		**26,460**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
2001	B-2	South Fork Clearwater River at Meadow Creek	DNFH	Supplementation; Late eggs	None[e]		23,459		No Estimates Made			
		Subtotals				**0**	**23,459**					
					No. Released		**23,459**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
	South Fork Clearwater River at Meadow Creek Subtotals					**0**	**49,919**					
					No. Released		**49,919**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
2002	B-1	South Fork Clearwater River at Mill Creek	DNFH	NPT Supplementation	None[e]		34,000		No Estimates Made			
		Subtotals				**0**	**34,000**					
					No. Released		**34,000**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							

Appendix D. Continued.

Release Year	Stock and Ocean Age	Release Site	Stock Name[a]	Marking Purpose	Tags	No. of Fish Released Tagged	No. of Fish Released Untagged	Mark Rate	Estimated No. of Fish Harvest	Estimated No. of Fish Hatchery Returns[b]	Estimated No. of Fish Total	Exploitation Rate
Fall 2003–Spring 2004 Season, continued.												
2001	B-2	South Fork Clearwater River at Mill Creek	DNFH	Supplementation; Late eggs	None[e]		24,549		No Estimates Made			
						0	**24,549**					
					No. Released		**24,549**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
	South Fork Clearwater River at Mill Creek Subtotals					**0**	**58,549**					
					No. Released		**58,549**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
2002	B-1	South Fork Clearwater River at Red House Hole	DNFH	LSRCP Production	CWT 10/48/10	21,104			9	0	9	1.00
					CWT 10/48/11	22,327			0	0	0	--
					CWT 10/48/12	22,629			16	0	16	1.00
					None		72,709		28	0	28	1.00
		Subtotals				**66,060**	**72,709**					
					No. Released		**138,769**	**0.48**	**53**	**0**	**53**	**1.00**
					3 Mark Groups; 2 Mark Groups Recovered in Fishery							
2001	B-2	South Fork Clearwater River at Red House Hole	DNFH	Production	CWT 10/48/26[c]		20,736		90	0	90	1.00
					CWT 10/48/27[c]		22,076		88	0	88	1.00
					CWT 10/48/28[c]		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 Groups; 3 Mark Groups Recovered in Fishery							
2000	B-3	South Fork Clearwater River at Red House Hole	DNFH	Contribution	CWT 10/54/26[c]	32,101			4	0	4	1.00
					CWT 10/54/08[c]	31,196			12	0	12	1.00
					None		248,119		63	0	63	1.00
		Subtotals				**63,297**	**248,119**					
					No. Released		**311,416**	**0.20**	**79**	**0**	**79**	**1.00**
					2 Mark Groups; 2 Mark Groups Recovered in Fishery							
	South Fork Clearwater River Subtotals					**129,357**	**418,594**					
					No. Released		**547,951**	**0.24**	**483**	**0**	**483**	**1.00**
					8 Mark Groups; 7 Mark Groups Recovered in Fishery							
2002	B-1	Clear Creek	DNFH	LSRCP Production	None		40,499		0	23	23	--
		Subtotals				**0**	**40,499**					
					No. Released		**40,499**	**0**	**0**	**23**	**23**	**--**
					0 Mark Groups							

Appendix D. Continued.

Release Year	Stock and Ocean Age	Release Site	Stock Name[a]	Marking Purpose	Tags	No. of Fish Released Tagged	No. of Fish Released Untagged	Mark Rate	Estimated No. of Fish Harvest	Estimated No. of Fish Hatchery Returns[b]	Estimated No. of Fish Total	Exploitation Rate
Fall 2003–Spring 2004 Season, continued.												
2001	B-2	Clear Creek	DNFH	Supplementation; Late eggs	CWT 10/48/02	21,439			79	28	107	0.74
					None		76,101		280	99	379	0.74
		Subtotals				**21,439**	**76,101**					
					No. Released		**97,540**	**0.22**	**359**	**127**	**486**	**0.74**
					1 Mark Group; 1 Mark Groups Recovered in Fishery							
2000	B-3	Clear Creek	DNFH	Contribution	CWT 10/54/19[c]	43,375			0	0	0	--
					None		140,482		0	0	0	--
		Subtotals				**43,375**	**140,482**					
					No. Released		**183,857**	**0.24**	**0**	**0**	**0**	**--**
					1 Mark Group; 0 Mark Groups Recovered in Fishery							
	Clear Creek Subtotals					**64,814**	**257,082**					
					No. Released		**321,896**	**0.20**	**359**	**150**	**509**	**0.71**
					2 Mark Groups; 1 Mark Group Recovered in Fishery							
2002	B-1	Crooked River Ponds	DNFH	Supplementation	BWT 10/00/00[d,e]	19,918			No Estimates Made			
					None[e]		82,219		No Estimates Made			
		Subtotals				**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	None[c,e]		100,331		**No Estimates Made**			
		Subtotals				**0**	**100,331**					
					No. Released		**100,331**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
	Crooked River Ponds Supplementation Subtotals					**19,918**	**182,550**					
					No. Released		**202,468**	**--**	**--**	**--**	**--**	**--**
					1 Mark Group; 0 Mark Groups Recovered in Fishery							
2002	B-1	Crooked River Ponds	DNFH	LSRCP Production	CWT 10/63/70	12,573			16	0	16	1.00
					CWT 10/65/70	9,403			0	0	0	--
					None		11,914		9	0	9	1.00
	Crooked River Ponds Subtotals					**21,976**	**11,914**	**0.65**	**25**	**0**	**25**	**1.00**
					No. Released		**33,890**					
					2 Mark Groups; 1 Mark Group Recovered in Fishery							
2001	B-2	Crooked River	DNFH	Supplementation	BWT 10/00/00[c,e]	20,000			No Estimates Made			
					None[e]		76,632		No Estimates Made			
	Crooked River Supplementation Subtotals					**20,000**	**76,632**					
					No. Released		**96,632**	**--**	**--**	**--**	**--**	**--**
					1 Mark Group; 0 Mark Groups Recovered in Fishery							

Appendix D. Continued.

Release Year	Stock and Ocean Age	Release Site	Stock Name[a]	Marking Purpose	Tags	No. of Fish Released Tagged	No. of Fish Released Untagged	Mark Rate	Estimated No. of Fish Harvest	Estimated No. of Fish Hatchery Returns[b]	Estimated No. of Fish Total	Exploitation Rate
Fall 2003–Spring 2004 Season, continued.												
2001	B-2	Crooked River	DNFH	Production	CWT 10/48/23[c]	22,679			20	0	20	1.00
					CWT 10/48/24[c]	22,010			67	0	67	1.00
					CWT 10/48/25[c]	21,977			10	0	10	1.00
					None		82,249		120	0	120	1.00
	Crooked River Subtotals					**66,666**	**82,249**					
					No. Released		**148,915**	**0.48**	**217**	**0**	**217**	**1.00**
					3 Mark Groups; 3 Mark Groups Recovered in Fishery							
2002	B-1	Lolo Creek	DNFH	NPT Supplementation	None[e]		18,000		No Estimates Made			
		Subtotals				**0**	**18,000**					
					No. Released		**18,000**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
2001	B-2	Lolo Creek	DNFH	Supplementation; Late eggs	None[e]		48,523		No Estimates Made			
		Subtotals				**0**	**48,523**					
					No. Released		**48,523**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
	Lolo Creek Subtotals					**0**	**66,523**					
					No. Released		**66,523**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
Releases from Clearwater Fish Hatchery												
		"B" Stock Releases (with adipose fin clips)				**282,813**	**965,026**					
					No. Released		**1,247,839**	**0.23**	**1,265**	**150**	**1,415**	**0.89**
					15 Mark Groups; 12 Mark Groups Recovered in Fishery							
		Releases without Adipose Fin Clips				**39,918**	**873,191**					
					No. Released		**913,109**	**--**	**--**	**--**	**--**	**--**
					2 Mark Groups; 0 Mark Groups Recovered in Fishery							

Appendix D. Continued.

Release Year	Stock and Ocean Age	Release Site	Stock Name[a]	Marking Purpose	Tags	No. of Fish Released Tagged	No. of Fish Released Untagged	Mark Rate	Estimated No. of Fish Harvest	Estimated No. of Fish Hatchery Returns[b]	Estimated No. of Fish Total	Exploitation Rate
Fall 2003–Spring 2004 Season, continued.												
Total Returns for Run Year 2003-2004												
	Releases with Adipose Fin Clips					**1,101,178**	**6,379,267**					
					No. Released		**7,480,445**	**0.15**	**11,944**	**11,252**	**23,196**	**0.51**
					53 Mark Groups; 44 Mark Groups Recovered in Fishery							
	Releases without Adipose Fin Clips					**57,499**	**2,170,965**					
					No. Released		**2,228,464**	**--**	**--**	**--**	**--**	**--**
					3 Mark Groups; 0 Mark Groups Recovered in Fishery							

[a] SFH = Sawtooth Hatchery stock; HC = Hells Canyon stock; PFH = Pahsimeroi Fish Hatchery stock; DNFH = Dworshak National Fish Hatchery stock; EF = East Fork Salmon River stock.
[b] Includes off-site escapement and strays to hatchery racks.
[c] Release group includes fish marked with passive integrated transponder (PIT) tags.
[d] BWT = blank tag.
[e] Steelhead released without adipose fin clip. These fish were not available for harvest in the general fishery.
[f] Calculation of marking rate does not include numbers of fish released with intact adipose fins.

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

Release Year	No. of Fish Released	Release Site	Hatchery Rearing	Marks	No. of Tags Recovered
2001-2002 Season					
1998	19,534	Sawtooth Hatchery	HNFH[a]	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
Season Total		**3 Marked Groups**			**6**
2002-2003 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
Season Total		**3 Marked Groups**			**3**
2003-2004 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
Season Total		**5 Marked Groups**			**5**

[a] HNFH = Hagerman National Fish Hatchery.
[b] MVFH = Magic Valley Fish Hatchery.

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