FISHERY RESEARCH

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

Project Progress Report

Report Period August 2004 to April 2007

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

August 2004 to April 2007 Annual Report

By

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ABSTRACT

Creel data that includes the number of anglers interviewed, the number of fish kept, the number of fish checked for marks, and the number of fish released by anglers increased during the reporting period. The increase regarding our basic creel values may reflect our program's effort to increase the number of fish checked for marks.

Coded wire tags recovered from the fishery show A- and B-stock fish typically fell within the Harvest Management Program's ocean age–length categories. However, A- and B-stock 2-ocean fish were consistently small for all hatcheries except Clearwater Fish Hatchery during the 2004 through 2005 fishing seasons. The smaller size of fish was also noted by anglers during the 2004 through 2005 fishing seasons. B-stock fish reared by Magic Valley Fish Hatchery tend to be smaller compared to B-stock fish reared by Clearwater Fish Hatchery based on limited age–length fishery data from this report and our previous report (Hansen In Press).

Statewide harvest estimates of steelhead steadily declined during fall 2004 through spring 2006 seasons. Fall season fisheries followed negative yearly trends with regards to total number of fish caught. However, spring fisheries show more fish being kept over time by anglers. More fish may be available for spring fisheries because of reductions of angler days during fall fisheries. Additionally, increased spring harvest of steelhead may be partially attributed to corresponding increased counts of steelhead at Lower Granite Dam during spring seasons. However, our reporting period is short-term and many variables can influence fishing success.

Sample rates associated with run years improved by 5.6% during the report period. Sample rate data shows considerable variation exists between individual months and river sections. The Harvest Management Program developed spreadsheets during 2007 to help reduce variation among river section sample rates. One spreadsheet consists of tables that provide goals regarding the number of fish checked per month per river section. Additionally, the Harvest Management Program developed spreadsheets that calculate weekly progress toward sample rate goals during creel season.

The number of coded wire tags recovered in the fishery typically reflected the number of fish released and the associated mark rate. Twice as many coded wire tags were recovered from steelhead released by the Clearwater Fish Hatchery during the 2006 run year compared to previous run years. We concluded our increased sampling effort was responsible for additional coded wire tag recoveries from Clearwater Fish Hatchery mark groups. Our results show we were able to recover all but one coded wire tag mark group in the fishery for combined report years compared to 73% during the previous 3-year report period (Hansen In Press).

The Lower Snake River Compensation Plan harvest share of the statewide harvest estimate increased from 21% during the 2004 run year to 45.3 % during the 2006 run year. We attributed the increased Lower Snake River Compensation Plan harvest share to our increased effort to check more fish for marks.

Run year exploitation rates of fish for individual rearing facilities were slightly greater for 2006 through 2007. A negative relationship between the statewide harvest estimate and yearly exploitation rates during the reporting period may be attributed to our improved sample rates. However, other variables, including water conditions, may influence angler success.

Overall run strength at Bonneville Dam and Lower Granite Dam remained consistent during the reporting period. We noted that counts of wild–natural steelhead declined at Lower Granite Dam. We do not know the reason for the decline of wild–natural fish and caution that counts were not adjusted for overlap.

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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 nontribal 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 telephone 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 number of LSRCP-reared hatchery steelhead harvested by sport anglers by mark group, wild–natural and non-adipose clipped steelhead caught in the fishery by Idaho sport anglers, estimate in-river and hatchery rack returns of steelhead by marked and unmarked groups, and provide estimates of sport angler exploitation of marked and unmarked steelhead in Idaho.

2) Estimate the number of wild–natural, non-adipose clipped, and hatchery A- and B-stock steelhead returning to Bonneville Dam and Lower Granite Dam.

3) 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.

4) 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. Rivers are divided into sections for management purposes and assigned identifier codes (Table 1).

Table 1. River section location codes for steelhead fisheries surveyed for the Lower Snake River Compensation Plan program by the Idaho Department of Fish and Game 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

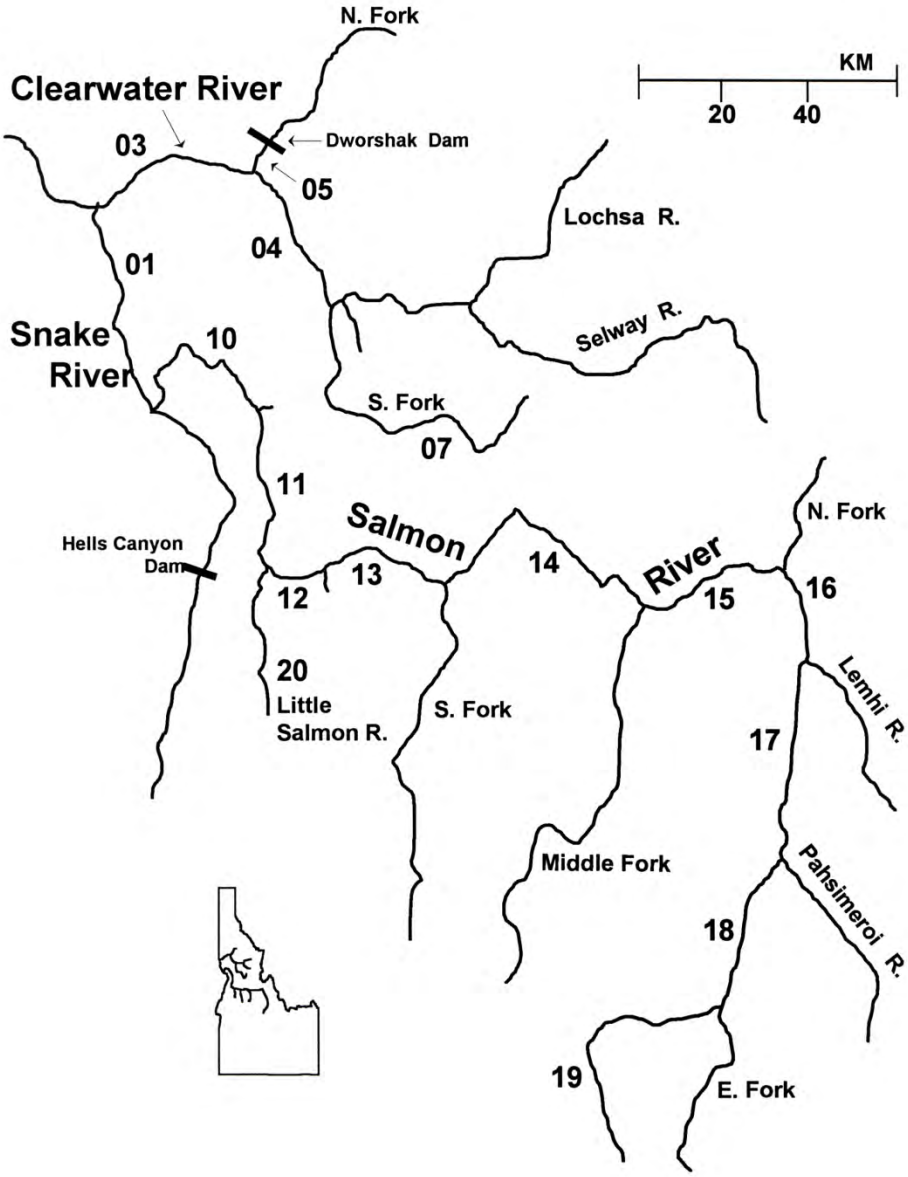

Figure 1. Map of steelhead harvest areas surveyed for the Lower Snake River Compensation Program by the Idaho Department of Fish and Game.

METHODS

Creel Survey

We conduct interviews of Idaho licensed 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, the type of fish released (adipose bearing or non-adipose bearing), 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 IDFG HEP. Hatchery Evaluation Project 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 RMIS 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 steelhead permit holders via a phone 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 off-site 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 actually 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 with 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 hatchery fish without an adipose fin clip, as they are unavailable to nontribal 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. Exceptions to standard sampling methodology are footnoted in Table 7. Personnel sampled fish at Lower Granite Dam from June 1 to December 15 and March 1 to May 31. 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 23,611, 21,771, and 25,672 anglers that fished a total of 152,141, 139,173, and 150,460 hours during the 2004, 2005, and 2006 run years, respectively (Table 2). Anglers kept 6,512, 6,341, and 7,709 steelhead during the 2004, 2005, and 2006 run years, respectively. We examined 6,001, 5,990, and 6,753 fish for CWT during the 2004, 2005, and 2006 run years, respectively. Additionally, anglers released 2,413, 2,927, and 3,945 hatchery and 5,127, 5,067, and 5,692 non-adipose clipped fish during the 2004, 2005, and 2006 run years, respectively. Anglers averaged 11, 10, and 9 hours per fish caught and 23, 22, and 20 hours per fish kept during the 2004, 2005, and 2006 run years, respectively Summaries of monthly creel data for fall and spring seasons are provided in Appendix A.

Biodata

We determined the age, length, and stock composition of 190, 318, and 222 A-stock fish reared by MVFH based on CWT recovered during the 2004, 2005, and 2006 run years, respectively (Table 3). The ocean age of A-stock fish consisted of 78% 1-ocean fish and 22% 2-ocean fish based on combined ocean years. The sex ratios of male to female fish were 1:0.9, 1:1.2, and 1:1.1 for A-stock fish during the 2004, 2005, and 2006 run years, respectively. The mean length of 1-ocean A-stock male fish was 58 cm, 60 cm, and 59 cm for fish recovered during the 2004, 2005, and 2006 run years, respectively, compared to program age–length criteria of <68 cm. The mean length of 1-ocean A-stock female fish was 56 cm, 59 cm, and 58 cm for fish recovered during the 2004, 2005, and 2006 run years, respectively, compared to program age–length criteria of ≤65 cm. The mean length of 2-ocean A-stock male fish was 66

cm, 69 cm, and 68 cm for fish recovered during the 2004, 2005, and 2006 run years, respectively, compared to program age–length criteria of ≥68 cm. The mean length of 2-ocean A-stock female fish was 66 cm, 67 cm, and 68 cm for fish recovered during the 2004, 2005, and 2006 run years, respectively, compared to program age–length criteria of >65 cm.

We determined the age, length, and stock composition of 39, 137, and 60 B-stock fish reared by MVFH based on CWT recovered during the 2004, 2005, and 2006 run years, respectively (Table 3). The ocean age of B-stock fish, based on combined fishery years, consisted of 17% 1-ocean fish and 83% 2-ocean fish. The sex ratios of male to female fish were 1:1.2, 1:1.3, and 1:1.5 for B-stock fish. The mean length of 1-ocean B-stock male fish was 63 cm, 64 cm, and 64 cm for fish recovered during the 2004, 2005, and 2006 run years, respectively. The mean length of 1-ocean B-stock female fish was 63 cm, 61 cm, and 66 cm for fish recovered during the 2004, 2005, and 2006 run years, respectively. The mean length of 2-ocean B-stock male fish was 78 cm, 78 cm, and 82 cm for fish recovered during the 2004, 2005, and 2006 run years, respectively, compared to program age–length criteria of >79 cm. The mean length of 2-ocean B-stock female fish was 78 cm, 76 cm, and 78 cm for fish recovered during the 2004, 2005, and 2006 run years, respectively, compared to program age–length criteria of >75 cm.

We determined the age, length, and stock composition of 30, 64, and 142 A-stock fish reared by HNFH based on CWT recovered during the fall 2004 through spring 2007 fisheries, respectively. The ocean age of A-stock fish consisted of 83% 1-ocean fish and 17% 2-ocean fish based on combined ocean years. The sex ratios of male to female fish were 1:1.3, 1:1.9, and 1:0.7 for the 2004 through 2007 fishing seasons, respectively. The mean length of 1-ocean A-stock male fish was 58 cm, 61 cm, and 59 cm for fish recovered during the 2004, 2005, and 2006 run years, respectively, compared to program age–length criteria of <68 cm. The mean length of 1-ocean A-stock female fish was 57 cm, 59 cm, and 59 cm for fish recovered during the 2004, 2005, and 2006 run years, respectively, compared to program age–length criteria of ≤65 cm. The mean length of 2-ocean A-stock male fish was 67 cm, 68 cm, and 72 cm for fish recovered during the 2004, 2005, and 2006 run years, respectively, compared to program age–length criteria of ≥68 cm. The mean length of 2-ocean A-stock female fish was 68 cm, 67 cm, and 66 cm for fish recovered during the 2004, 2005, and 2006 run years, respectively, compared to age–length criteria of >65 cm.

We determined the age, length, and stock composition of 32, 60, and 134 B-stock fish reared by CFH based on CWT recovered during 2004, 2005, and 2006 run years, respectively. The ocean age of B-stock fish consisted of 17% 1-ocean fish and 83% 2-ocean fish based on combined ocean years. The sex ratios of male to female fish were 1:1.1, 1:1.3, and 1:1.3 for 2004, 2005, and 2006 run years, respectively. The mean length of 1-ocean B-stock male fish was 66 cm, 66 cm, and 69 cm for fish recovered during 2004, 2005, and 2006 run years, respectively, compared to program age–length criteria of ≤73 cm. The mean length of 1-ocean B-stock female fish was 65 cm and 67 cm for fish recovered during 2005 and 2006 run years, respectively, compared to the age–length criteria of ≤68 cm. The mean length of 2-ocean B-stock male fish was 90 cm, 86 cm, and 87 cm for fish recovered during 2004, 2005, and 2006 run years, respectively, compared to program age–length criteria of >73 cm. The mean length of 2-ocean B-stock female fish was 82 cm, 81 cm, and 84 cm for fish recovered during 2004, 2005, and 2006 run years, respectively, compared to program age–length criteria of >68 cm.

Statewide, we recovered CWT and recorded fork length information from 454, 118, and 99 males and 512, 118, and 127 females during 2004, 2005, and 2006 run years, respectively. The stock composition consisted of 966 A-stock fish and 462 B-stock fish for combined years.

We recovered nine B-stock CWT fish from the Snake River, 219 B-stock CWT fish from the Salmon River, 10 B-stock CWT fish from the Little Salmon River, and 224 B-stock CWT fish from the Clearwater River (Appendix B). We recovered 14 A-stock CWT fish from the Snake River, 950 A-stock CWT fish from the Salmon River, one A-stock CWT fish from the Little Salmon River, and one A-stock CWT fish from the Clearwater River.

Harvest

Anglers kept approximately 63,635, 52,766, and 50,122 LSRCP-reared and non-LSRCP-reared steelhead during 2004, 2005, and 2006 run years, 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. Anglers harvested approximately 11,903, 7,892, and 4,526 steelhead from the Snake River; 20,606, 17,849, and 20,901 steelhead from the Clearwater River; and 31,126, 27,025, and 24,695 steelhead from the Salmon River during 2004, 2005, and 2006 run years, respectively.

We provided creel sample rate values by river section and month in Table 5. Our mean annual sample rate values were 9.4%, 11.4%, and 15.0% for all combined river sections for 2004, 2005, and 2006 run years, respectively. Annual sample rate values ranged from zero for section 02 to 34.1% for section 15. River sections 12, 13, 14, 15, and 17 were sampled by check station method and typically yield greater sample rates compared to roved river sections including 10, 11, 04, and 16.

We reported estimated harvest of LSRCP-reared steelhead by CWT group in Appendix C. We recovered 30, 64, and 143 CWT from A-stock mark groups reared by HNFH during 2004, 2005, and 2006 run years, respectively. We recovered 190, 319, and 228 CWT from A-stock mark groups and 39, 137, and 65 CWT from B-stock mark groups reared by MVFH during fall 2004 through spring 2007, respectively. We recovered 32, 60, and 202 CWT from B-stock mark groups reared by CFH during fall 2004 through spring 2007, respectively.

We estimated anglers harvested 13,077, 15,578, and 22,674 LSRCP-reared steelhead from all combined rearing facilities during fall 2004 through spring 2007, respectively (Table 6). Our estimated exploitation rates ranged from 52% to 90% for combined run years. We recovered all 196 released mark groups with the exception of one 1-ocean B-stock group released into the Little Salmon River from MVFH. CWT mark rates for release groups ranged from 5 percent to 24 percent. Detailed information regarding individual juvenile release groups and harvest is provided in Appendix D.

Table 2. Summary of steelhead fishery interview data (unexpanded) from the lower Snake River, Clearwater River, and Salmon River, August 2004 through May 2007. 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/ Fish Caught	Hours/ Fish Kept	No. of Snouts in Creel	
				Hatchery	Wild[a]				Checked For CWT	Taken
Fall 2004										
Snake River	658	3,909	290	23	234	547	7	13	235	19
Snake River WDFW data[b]	204	1,133	116	11	87	214	5	10	116	18
Clearwater River	3,616	13,641	642	102	432	1,176	12	21	586	51
Salmon River	8,319	69,537	2,936	979	1,881	5,796	12	24	2,740	241
Fall Totals	12,797	88,220	3,984	1,115	2,634	7,733	11	22	3,677	329
Spring 2005										
Snake River WDFW data[b]	32	120	7	1	20	28	4	17	7	1
Clearwater River	3,458	14,539	656	222	824	1,702	9	22	534	41
Salmon River	7,324	49,262	1,865	1,075	1,649	4,589	11	26	1,783	135
Spring Totals	10,814	63,921	2,528	1,298	2,493	6,319	10	25	2,324	177
IDFG Interview Totals	23,375	150,887	6,389	2,401	5,020	13,810	11	24	5,878	487
2004-2005 Totals	**23,611**	**152,141**	**6,512**	**2,413**	**5,127**	**14,052**	**11**	**23**	**6,001**	**506**

Table 2. Continued.

Fishing Season River	No. Anglers	Total Hours Fished	Steelhead Kept	Steelhead Released Hatchery	Steelhead Released Wild[a]	Total Catch	Hours/ Fish Caught	Hours/ Fish Kept	No. of Snouts in Creel Checked For CWT	No. of Snouts in Creel Taken
Fall 2005										
Snake River	431	2,757	237	20	148	405	7	12	224	2
Snake River WDFW data[b]	174	1,051	132	38	81	251	4	8	132	28
Clearwater River	1,968	7,962	347	35	193	575	14	23	327	25
Salmon River	6,293	60,296	2,248	607	1,745	4,600	13	27	2,099	344
Fall Totals	8,866	72,066	2,964	700	2,167	5,831	12	24	2,782	399
Spring 2006										
Snake River	3	9	1	0	1	2	5	9	1	1
Clearwater River	4,512	17,825	904	380	1,267	2,551	7	20	836	65
Salmon River	8,390	49,273	2,472	1,847	1,632	5,951	8	20	2,371	319
Spring Totals	12,905	67,107	3,377	2,227	2,900	8,504	8	20	3,208	385
IDFG Interview Totals	21,597	138,122	6,209	2,889	4,986	14,084	10	22	5,858	756
2005-2006 Totals	**21,771**	**139,173**	**6,341**	**2,927**	**5,067**	**14,335**	**10**	**22**	**5,990**	**784**

Table 2. Continued.

Fishing Season River	No. Anglers	Total Hours Fished	Steelhead Kept	Steelhead Released Hatchery	Steelhead Released Wild[a]	Total Catch	Hours/ Fish Caught	Hours/ Fish Kept	No. of Snouts in Creel Checked For CWT	No. of Snouts in Creel Taken
Fall 2006										
Snake River	1,086	5,808	372	17	292	681	9	16	315	41	33
Snake River WDFW data[c]	156	1132	68	3	44	115	10	17	68	15	--
Clearwater River	2,460	10,612	616	81	329	1,026	10	17	486	51	306
Salmon River	6,718	51,472	2,018	453	961	3,432	15	26	1,824	269	59
Fall Totals	10,420	69,024	3,074	554	1,626	5,254	13	22	2,693	376	398
Spring 2007										
Clearwater River	5,882	26,459	1,724	729	2,070	4,523	6	15	1,455	124	296
Salmon River	9,370	54,977	2,911	2,662	1,996	7,569	7	19	2,605	335	75
Spring Totals	15,252	81,436	4,635	3,391	4,066	12,092	7	18	4,060	459	371
IDFG Interview Totals	25,216	149,328	7,641	3,942	5,648	17,231	9	20	6,685	820	769
2006-2007 Totals	**25,672**	**150,460**	**7,709**	**3,945**	**5,692**	**17,346**	**9**	**20**	**6,753**	**835**	**769**

[a] Includes hatchery-produced steelhead with intact adipose fins.

[b] Creel personnel on the Snake River, Clearwater River, and lower Salmon River (Sections 10 through 13) collected and checked snouts voluntarily returned by anglers, outfitters and guides, and fish processors to increase the number of fish checked for marks during 2006.

[c] Some Snake River creel data from fall through spring 2004 collected by Washington Department of Fish and Wildlife (WDFW) personnel (J. Bumgarner, Washington Department of Fish and Wildlife, personal communication).

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, fall 2004 through spring 2007. 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 (%)		
2004-2005	Males	98		91 (93%)	7 (7%)	58±1	66±3
	Females	92		72 (78%)	20 (22%)	56±1	66±2
	Subtotal	190	1:0.9	163 (86%)	27 (14%)	57±0	66±1
2005-2006[b]	Males	143		115 (80%)	28 (20%)	60±1	69±1
	Females	175		127 (73%)	48 (27%)	59±1	67±1
	Subtotal	318	1:1.2	242 (76%)	76 (24%)	59±0	68±1
2006-2007[c]	Males	112		93 (83%)	19 (17%)	59±1	68±2
	Females	110		72 (65%)	38 (35%)	58±1	68±2
	Subtotal	222	1:1	165 (3%)	57 (26%)	59±1	68±1
Hatchery Totals	Males	353		299 (85%)	54 (15%)		
	Females	377		271 (72%)	106 (28%)		
	Total	730	1:1.1	570 (78%)	160 (22%)		
				B-1	B-2	B-1	B-2
		N		N (%)	N (%)		
2004-2005	Males	18		12 (67%)	6 (33%)	63±2	78±3
	Females	21		5 (24%)	16 (76%)	63±10	74±2
	Subtotal	39	1:1.2	17 (44%)	22 (56%)	63±3	75±2
2005-2006	Males	59		8 (14%)	51 (86%)	64±1	78±3
	Females	78		2 (3%)	76 (97%)	61±6	74±2
	Subtotal	137	1:1.3	10 (7%)	127 (93%)	64±2	77±1
2006-2007[d]	Males	24		8 (33%)	16 (67%)	64±3	82±2
	Females	36		5 (14%)	31 (86%)	66±6	78±1
	Subtotal	60	1:1.5	13 (22%)	47 (78%)	65±3	79±1
Hatchery Totals	Males	101		28 (28%)	73 (72%)		
	Females	135		12 (9%)	123 (91%)		
	Total	236	1:1.3	40 (17%)	196 (83%)		
Hagerman National Fish Hatchery							
				A-1	A-2	A-1	A-2
		N		N (%)	N (%)		
2004-2005	Males	13		9 (69%)	4 (31%)	58±2	67±7
	Females	17		10 (59%)	7 (41%)	57±1	68±1
	Subtotal	30	1:1.3	19 (63%)	11 (37%)	58±1	67±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	
			Hagerman National Fish Hatchery, continued.				
2005-2006	Males	22		19 (86%)	3 (14%)	61±2	68±3
	Females	42		28 (67%)	14 (33%)	59±1	67±1
	Subtotal	64	1:1.9	47 (73%)	17 (27%)	60±1	67±1
2006-2007[e]	Males	83		77 (93%)	6 (7%)	59±1	72±4
	Females	59		53 (90%)	6 (10%)	59±1	66±4
	Subtotal	142	1:0.7	130 (92%)	12 (8%)	59±1	69±3
Hatchery Totals	Males	118		105(89%)	13 (11%)		
	Females	118		91(77%)	27(23%)		
	Total	236	1:1	196(83%)	40(17%)		
			Clearwater Fish Hatchery				
		N		B-1 N (%)	B-2 N (%)	B-1	B-2
2004-2005	Males	15		7 (47%)	8 (53%)	66±3	90±2
	Females	17		--	17 (100%)	--	82±2
	Subtotal	32	1:1.1	7 (22%)	25 (78%)	66±3	84±2
2005-2006[f]							
	Males	26		7 (27%)	19 (73%)	66±3	86±3
	Females	34		2 (8%)	32 (123%)	65±2	81±2
	Subtotal	60	1:1.3	9 (15%)	51 (85%)	66±2	83±2
2006-2007[g]							
	Males	58		17 (29%)	41 (71%)	69±2	87±2
	Females	76		5 (7%)	71 (93%)	67±3	84±1
	Subtotal	134	1:1.3	22 (16%)	112 (84%)	68±1	85±1
Hatchery Totals	Males	99		31 (31%)	68 (69%)		
	Females	127		7 (6%)	120 (94%)		
	Total	226	1:1.3	38 (17%)	188 (83%)		

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

[b] One additional coded wire tag (CWT) (106873 released from the Magic Valley Fish Hatchery), listed in the CWT database as recovered in the Salmon River during the 2005-2006 steelhead season, was without specific biodata.

[c] Does not include six coded wire tags released from Magic Valley Fish Hatchery, listed in the CWT database as recovered in the Snake and Salmon rivers during the 2006 through 2007 steelhead fishing season, that were taken from snouts voluntarily returned by sportsmen. The snouts were recovered without specific biodata.

[d] Does not include five coded wire tags released from Magic Valley Fish Hatchery, listed in the CWT database as recovered in the Salmon River during the 2006 through 2007 steelhead fishing season, that were taken from snouts voluntarily returned by sportsmen. The snouts were recovered without specific biodata.

[e] Does not include one coded wire tag released from Hagerman Fish Hatchery, listed in the CWT database as recovered in the Salmon River during the 2006 through 2007 steelhead fishing season, that was taken from snouts voluntarily returned by sportsmen. The snout was recovered without specific biodata.

[f] One additional CWT (104810 released from Clearwater Fish Hatchery), listed in the CWT database as recovered in the Clearwater River during the 2005 through 2006 steelhead season, was from a 94 cm fork length, 3-ocean age, female steelhead.

[g] Does not include 68 coded wire tags released from Clearwater Fish Hatchery, listed in the CWT database as recovered in the Clearwater River drainage during the 2006 through 2007 steelhead fishing season, that were taken from snouts voluntarily returned by sportsmen. The snouts were recovered without specific biodata.

We recovered one CWT from a 5-year-old B-stock steelhead during the fall 2005 through spring 2006 fishery (Appendix E). We did not attempt any harvest expansion of the CWT from the 5-year-old fish, as previously mentioned in the Methods section.

Steelhead Counts at Hydro Projects

Estimated total counts of steelhead at Bonneville Dam were 308,958, 312,245, and 328,914 during 2004, 2005, and 2006, respectively (Table 7). We estimated 185,689, 74,420, and 184,255 A-stock hatchery steelhead and 29,388, 36,664, and 65,278 B-stock hatchery steelhead passed Bonneville Dam during 2004, 2005, and 2006, respectively. Sampling by stock was either delayed or intermittent during 2004 and 2005; therefore, our estimates of the total number of A- and B-stock fish are conservative. We estimated 67,769, 17,060, and 53,239 A-stock natural steelhead and 7,613, 7,435, and 8,789 B-stock natural steelhead passed Bonneville Dam during 2004, 2005, and 2006, respectively. We estimated 16,649, 2,388, and 12,961 A-stock unclipped adipose fin hatchery steelhead and 1,850, 240, and 4,392 B-stock unclipped adipose fin hatchery steelhead passed Bonneville Dam during 2004, 2005, and 2006, respectively.

Estimated total counts of steelhead at Lower Granite Dam were 151,634, 158,378, and 148,981 during 2004, 2005, and 2006 run years, respectively (Table 8). We estimated 94,271, 96,804, and 85,081 A-stock hatchery steelhead and 23,179, 26,107, and 33,330 B-stock hatchery steelhead passed Lower Granite Dam during 2004, 2005, and 2006 run years, respectively. We estimated 18,274, 14,654, and 7,880 A-stock natural steelhead and 4,777, 3,543, and 1,590 B-stock natural steelhead passed Lower Granite Dam during 2004, 2005, and 2006 run years, respectively. We estimated 9,132, 13,923, and 15,221 A-stock unclipped adipose fin hatchery steelhead and 2,001, 3,347, and 5,879 B-stock unclipped adipose fin hatchery steelhead passed Lower Granite Dam during 2004, 2005, and 2006 run years, respectively.

Table 4. Statewide harvest estimates of steelhead by section and month, fall 2004 through spring 2007. Includes only anglers using an Idaho license.

	Fall 2004 Steelhead Harvest Estimates[a,b]					
River Section	**August**	**September**	**October**	**November**	**December**	**Total**
Snake River						
01	13	461	1,293	1,363	538	3,668
02	0	287	2,088	2,714	1,806	6,895
Clearwater River						
03	350	1,195	2,809	3,342	2,099	9,795
04	0	39	239	275	447	1,000
05	0	0	26	342	543	911
07	0	13	13	26	0	52
Salmon River						
10	0	13	591	458	264	1,326
11	0	78	406	880	501	1,865
12	0	39	1,255	826	230	2,350
13	0	0	404	390	78	872
14	0	13	855	709	35	1,612
15	0	91	3,036	2,100	283	5,510
16	0	0	414	605	77	1,096
17	0	39	346	234	77	696
18	0	0	0	0	0	0
19	0	0	286	0	0	286
20	0	39	440	340	13	832
Statewide Totals	**363**	**2,307**	**14,501**	**14,604**	**6,991**	**38,766**

	Spring 2005 Steelhead Harvest Estimates[a,b]					
River Section	**January**	**February**	**March**	**April**	**May**	**Total**
Snake River						
01	236	203	26	0	13	478
02	324	226	143	169	0	862
Clearwater River						
03	1,550	1,165	449	50	0	3,214
04	375	864	406	101	26	1,772
05	476	380	512	314	0	1,682
07	104	455	1,045	576	0	2,180
Salmon River						
10	222	334	63	20	0	639
11	375	532	513	75	0	1,495
12	310	495	285	0	0	1,090
13	13	111	39	0	0	163
14	52	410	177	12	0	651
15	141	522	2,448	327	0	3,438
16	72	263	874	181	0	1,390
17	12	167	690	805	0	1,674
18	0	12	232	468	0	712
19	119	155	182	1,106	0	1,562
20	186	156	582	923	20	1,867
Statewide Totals	**4,567**	**6,450**	**8,666**	**5,127**	**59**	**24,869**

Table 4. Continued.

	Fall 2005 Steelhead Harvest Estimates[a,b]					
River Section	**August**	**September**	**October**	**November**	**December**	**Total**
Snake River						
01	0	255	993	1,601	506	3,355
02	0	77	1,259	1,713	545	3,594
Clearwater River						
03	13	1,177	2,741	1,871	662	6,464
04	0	38	102	204	88	432
05	0	0	126	441	315	882
07	0	12	0	13	0	25
Salmon River						
10	0	13	788	596	88	1,485
11	0	112	392	785	139	1,428
12	0	13	453	433	51	950
13	0	26	279	485	0	790
14	0	51	636	1,186	0	1,873
15	0	0	2,032	1,827	102	3,961
16	0	0	417	520	51	988
17	0	0	153	77	12	242
18	0	0	38	38	13	89
19	0	0	0	0	0	0
20	0	125	127	51	13	316
Statewide Totals	**13**	**1,899**	**10,536**	**11,841**	**2,585**	**26,874**

	Spring 2006 Steelhead Harvest Estimates[a,b]					
River Section	**January**	**February**	**March**	**April**	**May**	**Total**
Snake River						
01	73	96	28	10	0	207
02	210	52	474	0	0	736
Clearwater River						
03	1,336	808	441	79	0	2,664
04	711	712	531	132	155	2,241
05	830	663	780	161	23	2,457
07	287	440	1,202	693	62	2,684
Salmon River						
10	183	118	62	46	0	409
11	215	428	350	100	45	1,138
12	73	142	127	0	0	342
13	11	147	136	33	0	327
14	100	227	427	99	0	853
15	401	715	3,160	91	0	4,367
16	125	112	418	258	0	913
17	152	225	641	948	0	1,966
18	0	57	371	574	0	1,002
19	0	11	293	1,294	11	1,609
20	86	76	728	979	108	1,977
Statewide Totals	**4,793**	**5,029**	**10,169**	**5,497**	**404**	**25,892**

Table 4. Continued.

	Fall 2006 Steelhead Harvest Estimates[a,b]					
River Section	**August**	**September**	**October**	**November**	**December**	**Total**
Snake River						
01	0	407	580	858	517	2,362
02	0	0	282	797	414	1,493
Clearwater River						
03	143	455	1,922	2,338	2,040	6,898
04	0	0	417	316	130	863
05	24	53	141	342	194	754
07	0	0	0	0	26	26
Salmon River						
10	16	56	571	66	40	749
11	0	13	653	572	154	1,392
12	0	40	694	544	157	1,435
13	0	0	237	53	0	290
14	0	0	716	1,013	12	1,741
15	0	53	1,888	1,614	180	3,735
16	0	0	817	404	92	1,313
17	0	0	81	175	57	313
18	0	13	0	0	0	13
19	0	13	0	66	0	79
20	0	13	118	129	92	352
Statewide Totals	**183**	**1,116**	**9,117**	**9,287**	**4,105**	**23,808**

	Spring 2007 Steelhead Harvest Estimates[a,b]					
River Section	**January**	**February**	**March**	**April**	**May**	**Total**
Snake River						
01	61	111	101	0	0	273
02	43	125	163	67	0	398
Clearwater River						
03	1502	925	549	52	0	3,028
04	582	971	518	209	0	2,280
05	547	849	561	542	73	2,572
07	135	1214	2580	551	0	4,480
Salmon River						
10	107	106	73	0	0	286
11	160	624	264	188	0	1,236
12	44	232	125	13	0	414
13	0	101	76	13	0	190
14	160	63	317	97	0	637
15	205	310	1112	219	0	1,846
16	0	184	392	317	0	893
17	61	126	1299	748	11	2,245
18	0	38	386	116	0	540
19	0	89	1543	1572	13	3,217
20	13	59	971	699	37	1,779
Statewide Totals	**3,620**	**6,127**	**11,030**	**5,403**	**134**	**26,314**

[a] Excludes river sections not surveyed for Lower Snake River Compensation Program.
[b] Data from Thomas J. McArthur, Idaho Department of Fish and Game.

Table 5. Fishery sample rates by river section and month, fall 2004 through spring 2007.

Section	Fall 2004 through Spring 2005										
	Fishery Statistics by Month										
Statistics	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Total
01											
No. Fish Checked[a]	0	52	120	95	84	7	0	0	0	0	358
Estimated Harvest[b]	13	461	1,293	1,363	538	236	203	26	0	13	4,146
Sample Rate	0	0.113	0.093	0.070	0.156	0.030	0	0	--	0	0.086
02											
No. Fish Checked	0	0	0	0	0	0	0	0	0	0	0
Estimated Harvest	0	287	2,088	2,714	1,806	324	226	143	169	0	7,757
Sample Rate	--	0	0	0	0	0	0	0	0	--	0
03											
No. Fish Checked	29	30	163	152	192	101	51	9	5	0	732
Estimated Harvest	350	1,195	2,809	3,342	2,099	1,550	1,165	449	50	0	13,009
Sample Rate	0.083	0.025	0.058	0.045	0.091	0.065	0.044	0.020	0.100	--	0.056
04											
No. Fish Checked	0	0	0	0	1	1	14	10	0	0	26
Estimated Harvest	0	39	239	275	447	375	864	406	101	26	2,772
Sample Rate	--	0	0	0	0.002	0.003	0.016	0.025	0	0	0.009
05											
No. Fish Checked	0	0	6	5	8	39	10	3	11	0	82
Estimated Harvest	0	0	26	342	543	476	380	512	314	0	2,593
Sample Rate	--	--	0.231	0.015	0.015	0.082	0.026	0.006	0.035	--	0.032
07											
No. Fish Checked	0	0	0	0	0	21	52	127	80	0	280
Estimated Harvest	0	13	13	26	0	104	455	1,045	576	0	2,232
Sample Rate	--	0	0	0	--	0.202	0.114	0.122	0.139	--	0.125
10											
No. Fish Checked	0	0	7	9	3	0	0	0	0	0	19
Estimated Harvest	0	13	591	458	264	222	334	63	20	0	1,965
Sample Rate	--	0	0.012	0.020	0.011	0	0	0	0	--	0.010
11											
No. Fish Checked	0	3	23	38	1	0	7	19	0	0	91
Estimated Harvest	0	78	406	880	501	375	532	513	75	0	3,360
Sample Rate	--	0.038	0.057	0.043	0.002	0	0.013	0.037	0	--	0.027
12											
No. Fish Checked	0	0	274	213	2	0	20	84	0	0	593
Estimated Harvest	0	39	1,255	826	230	310	495	285	0	0	3,440
Sample Rate	--	0	0.218	0.258	0.009	0	0.040	0.295	--	--	0.172
13											
No. Fish Checked	0	0	99	59	0	0	3	13	0	0	174
Estimated Harvest	0	0	404	390	78	13	111	39	0	0	1,035
Sample Rate	--	--	0.245	0.151	0	0	0.027	0.333	--	--	0.168
14											
No. Fish Checked	0	0	184	342	0	0	0	66	0	0	592
Estimated Harvest	0	13	855	709	35	52	410	177	12	0	2,263
Sample Rate	--	0	0.215	0.482	0	0	0	0.373	0	--	0.262

Table 5. Continued.

Section / Statistics	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Total
Fall 2004 through Spring 2005											
	Fishery Statistics by Month										
15											
No. Fish Checked	0	0	746	539	0	0	0	720	13	0	2,018
Estimated Harvest	0	91	3,036	2,100	283	141	522	2,448	327	0	8,948
Sample Rate	--	0	0.246	0.257	0	0	0	0.294	0.040	--	0.226
16											
No. Fish Checked	0	0	69	73	0	0	0	74	3	0	219
Estimated Harvest	0	0	414	605	77	72	263	874	181	0	2,486
Sample Rate	--	--	0.167	0.121	0	0	0	0.085	0.017	--	0.088
17											
No. Fish Checked	0	0	12	10	0	0	0	85	262	0	369
Estimated Harvest	0	39	346	234	77	12	167	690	805	0	2,370
Sample Rate	--	0	0.035	0.043	0	0	0	0.123	0.325	--	0.156
18											
No. Fish Checked	0	0	0	0	0	0	0	22	31	0	53
Estimated Harvest	0	0	0	0	0	0	12	232	468	0	712
Sample Rate	--	--	--	--	--	--	0	0.095	0.066	--	0.074
19											
No. Fish Checked	0	0	0	0	0	0	0	1	233	0	234
Estimated Harvest	0	0	286	0	0	119	155	182	1,106	0	1,848
Sample Rate	--	--	0	--	--	0	0	0.005	0.211	--	0.127
20											
No. Fish Checked	0	4	21	6	3	0	1	34	92	0	161
Estimated Harvest	0	39	440	340	13	186	156	582	923	20	2,699
Sample Rate	--	0.103	0.048	0.018	0.231	0	0.006	0.058	0.100	0	0.060
Total Steelhead Checked											6,001
Total Estimated Steelhead Harvested											63,635
Annual Sample Rate											0.094
Fall 2005 through Spring 2006											
01											
No. Fish Checked[a]	0	35	147	147	17	0	1	0	0	0	347
Estimated Harvest[b]	0	255	993	1,601	506	73	96	28	10	0	3,562
Sample Rate	--	0.137	0.148	0.092	0.034	0	0.010	0	0	--	0.097
02											
No. Fish Checked	0	0	10	0	0	0	0	0	0	0	10
Estimated Harvest	0	77	1,259	1,713	545	210	52	474	0	0	4,330
Sample Rate	--	0	0.008	0	0	0	0	0	--	--	0.002
03											
No. Fish Checked	5	28	98	107	41	89	35	16	2	0	421
Estimated Harvest	13	1,177	2,741	1,871	662	1,336	808	441	79	0	9,128
Sample Rate	0.385	0.024	0.036	0.057	0.062	0.067	0.043	0.036	0.025	--	0.046
04											
No. Fish Checked	0	0	0	2	0	27	56	92	1	0	178
Estimated Harvest	0	38	102	204	88	711	712	531	132	155	2,673
Sample Rate	--	0	0	0.010	0	0.038	0.079	0.173	0.008	0	0.067

Table 5. Continued.

Section	Fall 2005 through Spring 2006, continued.										
	Fishery Statistics by Month										
Statistics	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Total
05											
No. Fish Checked	0	0	0	8	36	31	30	4	34	0	143
Estimated Harvest	0	0	126	441	315	830	663	780	161	23	3,339
Sample Rate	--	--	0	0.018	0.114	0.037	0.045	0.005	0.211	0	0.043
07											
No. Fish Checked	0	0	0	0	2	17	24	261	117	0	421
Estimated Harvest	0	12	0	13	0	287	440	1,202	693	62	2,709
Sample Rate	--	0	--	0	--	0.059	0.055	0.217	0.169	0	0.155
10											
No. Fish Checked	0	0	7	0	0	0	0	0	0	0	7
Estimated Harvest	0	13	788	596	88	183	118	62	46	0	1,894
Sample Rate	--	0	0.009	0	0	0	0	0	0	--	0.004
11											
No. Fish Checked	0	2	26	17	1	0	12	17	0	0	75
Estimated Harvest	0	112	392	785	139	215	428	350	100	45	2,566
Sample Rate	--	0.018	0.066	0.022	0.007	0	0.028	0.049	0	0	0.029
12											
No. Fish Checked	0	0	134	168	4	0	19	75	1	0	401
Estimated Harvest	0	13	453	433	51	73	142	127	0	0	1,292
Sample Rate	--	0	0.296	0.388	0.078	0	0.134	0.591	--	--	0.310
13											
No. Fish Checked	0	0	24	77	0	0	0	17	0	0	118
Estimated Harvest	0	26	279	485	0	11	147	136	33	0	1,117
Sample Rate	--	0	0.086	0.159	--	0	0	0.125	0	--	0.106
14											
No. Fish Checked	0	0	61	284	0	0	0	76	2	0	423
Estimated Harvest	0	51	636	1,186	0	100	227	427	99	0	2,726
Sample Rate	--	0	0.096	0.239	--	0	0	0.178	0.020	--	0.155
15											
No. Fish Checked	0	0	495	692	0	0	0	905	7	0	2,099
Estimated Harvest	0	0	2,032	1,827	102	401	715	3,160	91	0	8,328
Sample Rate	--	--	0.244	0.379	0	0	0	0.286	0.077	--	0.252
16											
No. Fish Checked	0	0	40	61	0	0	0	162	61	0	324
Estimated Harvest	0	0	417	520	51	125	112	418	258	0	1,901
Sample Rate	--	--	0.096	0.117	0	0	0	0.388	0.236	--	0.170
17											
No. Fish Checked	0	0	0	0	0	0	0	117	381	0	498
Estimated Harvest	0	0	153	77	12	152	225	641	948	0	2,208
Sample Rate	--	--	0	0	0	0	0	0.183	0.402	--	0.226
18											
No. Fish Checked	0	0	0	0	0	0	0	35	41	0	76
Estimated Harvest	0	0	38	38	13	0	57	371	574	0	1,091
Sample Rate	--	--	0	0	0	--	0	0.094	0.071	--	0.070

Table 5. Continued.

Section / Statistics	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Total
Fall 2005 through Spring 2006, continued.											
	Fishery Statistics by Month										
19											
No. Fish Checked	0	0	0	0	0	0	0	5	291	0	296
Estimated Harvest	0	0	0	0	0	0	11	293	1,294	11	1,609
Sample Rate	--	--	--	--	--	--	0	0.017	0.225	0	0.184
20											
No. Fish Checked	0	0	4	2	0	0	0	30	115	2	153
Estimated Harvest	0	125	127	51	13	86	76	728	979	108	2,293
Sample Rate	--	0	0.031	0.039	0	0	0	0.041	0.117	0.019	0.067
										Total Steelhead Checked	5,990
										Total Estimated Steelhead Harvested	52,766
										Annual Sample Rate	0.114
Fall 2006 through Spring 2007											
01											
No. Fish Checked[a]	0	13	218	102	0	0	0	0	0	0	333
Estimated Harvest[b]	0	407	580	858	517	61	111	101	0	0	2,635
Sample Rate	--	0.032	0.376	0.119	0	0	0	0	--	--	0.126
02											
No. Fish Checked	0	12	47	24	0	0	0	0	0	0	83
Estimated Harvest	0	0	282	797	414	43	125	163	67	0	1,891
Sample Rate	--	--	0.167	0.030	0	0	0	0	0	--	0.044
03											
No. Fish Checked	13	30	59	346	245	314	110	11	2	0	1,130
Estimated Harvest	143	455	1,922	2,338	2,040	1,502	925	549	52	0	9,926
Sample Rate	0.091	0.066	0.031	0.148	0.120	0.209	0.119	0.020	0.038	--	0.114
04											
No. Fish Checked	0	0	8	59	17	13	234	106	0	0	437
Estimated Harvest	0	0	417	316	130	582	971	518	209	0	3,143
Sample Rate	--	--	0.019	0.187	0.131	0.022	0.241	0.205	0	--	0.139
05											
No. Fish Checked	0	0	0	2	11	80	21	25	3	0	142
Estimated Harvest	24	53	141	342	194	547	849	561	542	73	3,326
Sample Rate	0	0	0	0.006	0.057	0.146	0.025	0.045	0.006	0	0.043
07											
No. Fish Checked	0	0	0	2	0	1	145	594	92	0	834
Estimated Harvest	0	0	0	0	26	135	1,214	2,580	551	0	4,506
Sample Rate	--	--	--	--	0	0.007	0.119	0.230	0.167	--	0.185
10											
No. Fish Checked	0	7	22	9	4	6	36	0	0	0	84
Estimated Harvest	16	56	571	66	40	107	106	73	0	0	1,035
Sample Rate	0	0.125	0.039	0.136	0.100	0.056	0.340	0	--	--	0.081
11											
No. Fish Checked	0	1	36	58	16	16	50	4	0	0	181
Estimated Harvest	0	13	653	572	154	160	624	264	188	0	2,628
Sample Rate	--	0.077	0.055	0.101	0.104	0.100	0.080	0.015	0	--	0.069

Table 5. Continued.

Section	Fall 2006 through Spring 2007, continued.										
	Fishery Statistics by Month										
Statistics	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Total
12											
No. Fish Checked	0	0	157	166	1	10	53	63	0	0	450
Estimated Harvest	0	40	694	544	157	44	232	125	13	0	1,849
Sample Rate	--	0	0.226	0.305	0.006	0.227	0.228	0.504	0	--	0.243
13											
No. Fish Checked	0	0	57	55	0	0	19	0	0	0	131
Estimated Harvest	0	0	237	53	0	0	101	76	13	0	480
Sample Rate	--	--	0.241	1.038	--	--	0.188	0	0	--	0.273
14											
No. Fish Checked	0	0	97	206	0	0	0	111	0	0	414
Estimated Harvest	0	0	716	1,013	12	160	63	317	97	0	2,378
Sample Rate	--	--	0.135	0.203	0	0	0	0.350	0	--	0.174
15											
No. Fish Checked	0	0	460	366	0	0	0	464	1	0	1,291
Estimated Harvest	0	53	1,888	1,614	180	205	310	1,112	219	0	5,581
Sample Rate	--	0	0.244	0.227	0	0	0	0.417	0.005	--	0.231
16											
No. Fish Checked	0	0	58	55	0	0	22	147	2	0	284
Estimated Harvest	0	0	817	404	92	0	184	392	317	0	2,206
Sample Rate	--	--	0.071	0.136	0	--	0.120	0.375	0.006	--	0.129
17											
No. Fish Checked	0	0	5	28	0	0	13	445	380	0	871
Estimated Harvest	0	0	81	175	57	61	126	1,299	748	11	2,558
Sample Rate	--	--	0.062	0.160	0	0	0.103	0.343	0.508	0	0.341
18											
No. Fish Checked	0	0	0	0	0	0	4	72	69	0	145
Estimated Harvest	0	13	0	0	0	0	38	386	116	0	553
Sample Rate	--	0	--	--	--	--	0.105	0.187	0.595	--	0.262
19											
No. Fish Checked	0	0	0	0	0	0	0	299	170	0	469
Estimated Harvest	0	13	0	66	0	0	89	1,543	1,572	13	3,296
Sample Rate	--	0	--	0	--	--	0	0.194	0.108	0	0.142
20											
No. Fish Checked	0	0	10	8	1	0	9	145	70	0	243
Estimated Harvest	0	13	118	129	92	13	59	971	699	37	2,131
Sample Rate	--	0	0.085	0.062	0.011	0	0.153	0.149	0.100	0	0.114
										Total Steelhead Checked	7,522
										Total Estimated Steelhead Harvested	50,122
										Annual Sample Rate	0.150

[a] Includes data collected on the Snake River by Washington Department of Fish and Wildlife (WDFW) personnel (J. Bumgarner, Washington Department of Fish and Wildlife, personal communication).

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

Table 6. Idaho steelhead sport fishery statistics by rearing facility for Lower Snake River Compensation Plan hatchery fish, fall 2004 through spring 2007.

Fall 2004 through Spring 2005 Season[a]

Mark Groups[b]		No. of Fish						
Released	Recovered in Fishery	Coded-Wire-Tagged	Released	Mark Rate	Estimated Harvest	Hatchery In-river Returns	Total Returns	Exploitation Rate
			Hagerman National Fish Hatchery					
3	3	77,687	1,529,038	0.05	3,183	1,494	4,677	0.68
			Magic Valley Fish Hatchery					
18	17	572,886	3,592,757	0.16	8,540	6,925	15,465	0.55
			Clearwater Fish Hatchery					
7	7	213,690	851,363	0.25	1,354	617	1,971	0.69
			All LSRCP Hatchery, Combined					
28	27	864,263	5,973,158	0.14	13,077	9,036	22,114	0.59

Fall 2005 through Spring 2006 Season[a]

Mark Groups[b]		No. of Fish						
Released	Recovered in Fishery	Coded Wire Tagged	Released	Mark Rate	Estimated Harvest	Hatchery& In-river Returns	Total Returns	Exploitation Rate
			Hagerman National Fish Hatchery					
6	6	120,256	1,714,518	0.07	3,872	2,014	5,886	0.66
			Magic Valley Fish Hatchery					
25	25	814,228	3,424,884	0.24	8,773	8, 084	16,857	0.52
			Clearwater Fish Hatchery					
4	4	256,871	1,278,340	0.20	2,933	670	3,603	0.81
			All LSRCP Hatchery, Combined					
35	35	1,191,355	6,417,742	0.19	15,578	10,768	26,346	0.59

Table 6. Continued.

Fall 2006 through Spring 2007 Season[a]								
	Mark Groups[b]	No. of Fish						
Released	Recovered in Fishery	Coded Wire Tagged	Released	Mark Rate	Estimated Harvest	Hatchery In-river Returns	Total Returns	Exploitation Rate
			Hagerman National Fish Hatchery					
8	8	171,217	1,905,497	0.09	7,227	4,019	11,246	0.64
			Magic Valley Fish Hatchery					
23	23	671,684	3,296,664	0.20	7,847	5,599	13,446	0.58
			Clearwater Fish Hatchery					
4	4	251,397	1,386,871	0.18	7,600	890	8,490	0.90
			All LSRCP Hatchery, Combined					
35	35	1,094,298	6,589,032	0.17	22,674	10,508	33,182	0.68

[a] Release values include only those steelhead released with clipped adipose-fins.
[b] Includes only 1- and 2-ocean-age fish.

Table 7. Estimated composition of steelhead run at Bonneville Dam, March 15, 2004 through November 15, 2006. Sampling for steelhead did not occur at Bonneville Dam from November 1 through March 15.

Sample Period	Count At Dam	Sample No.	% of Count at Dam	Natural <78 cm[d]	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[b,c]: Natural <78 cm	Estimated Number in Run[b,c]: Hatchery <78 cm	Estimated Number in Run[b,c]: Unclipped Hatchery <78 cm	Estimated Number in Run[b,c]: Natural ≥78 cm	Estimated Number in Run[b,c]: Hatchery ≥78 cm	Estimated Number in Run[b,c]: Unclipped Hatchery ≥78 cm
2004 Run Year[a]															
4/1-6/27	4,583	--	--	--	--	--	--	--	--	*6,064*	*10,262*	*1,399*	*0*	*0*	*0*
6/28-7/4	7,645	--	--	--	--	--	--	--	--	*2,615*	*4,426*	*604*	*0*	*0*	*0*
7/5-11	11,640	--	--	--	--	--	--	--	--	*3,982*	*6,739*	*919*	*0*	*0*	*0*
7/12-18	21,257	114	0.5	39	66	9	0	0	0	7,272	12,307	1,678	0	0	0
7/19-25	18,456	101	0.5	34	59	6	0	2	0	6,213	10,781	1,097	0	365	0
7/26-8/1	12,856	77	0.6	17	55	5	0	0	0	2,838	9,183	835	0	0	0
8/2-8	35,780	--	--	--	--	--	--	--	--	*7,900*	*25,557*	*2,323*	*0*	*0*	*0*
8/9-15	35,508	--	--	--	--	--	--	--	--	*9,344*	*24,295*	*1,246*	*0*	*623*	*0*
8/16-22	11,688	57	0.5	15	39	2	0	1	0	3,076	7,997	410	0	205	0
8/23-29	11,724	35	0.3	6	26	3	0	0	0	2,010	8,709	1,005	0	0	0
8/30-9/5	37,951	89	0.2	15	60	7	2	5	0	6,396	25,585	2,985	853	2,132	0
9/6-12	22,287	59	0.3	7	31	3	5	12	1	2,644	11,710	1,133	1,889	4,533	378
9/13-19	26,898	84	0.3	12	35	1	6	29	1	3,843	11,208	320	1,921	9,286	320
9/20-26	16,723	90	0.5	8	36	0	14	30	2	1,486	6,689	0	2,601	5,574	372
9/27-10/3	8,443	49	0.6	3	22	1	0	21	2	517	3,791	172	0	3,619	344
10/4-31	12,376	142	1.1	18	74	6	4	35	5	1,569	6,450	523	349	3,051	436
Total	**308,958**	**897**		**174**	**503**	**43**	**31**	**135**	**11**	**67,769**	**185,689**	**16,649**	**7,613**	**29,388**	**1,850**
%			**0.3**							**21.9**	**60.1**	**5.4**	**2.5**	**9.5**	**0.6**
2005 Run Year															
4/1-8/21	174,038	--	--	--	--	--	--	--	--	--	--	--	--	--	--
8/22-28	26,718	46	0.2	10	31	1	1	3	0	5,808	18,005	581	581	1,743	0
8/29-9/4	16,896	70	0.4	12	54	0	2	2	0	2,897	13,034	0	483	483	0
9/5-11	21,780	39	0.2	7	17	0	4	11	0	3,909	9,494	0	2,234	6,143	0
9/12-18	21,060	64	0.3	2	25	0	3	34	0	658	8,226	0	987	11,188	0
9/19-25	18,022	75	0.4	4	37	3	5	25	1	961	8,891	721	1,201	6,007	240
9/26-10/2	15,812	66	0.4	5	19	0	7	35	0	1,198	4,552	0	1,677	8,385	0
10/3-10/31	17,919	66	0.4	6	45	4	1	10	0	1,629	12,218	1,086	272	2,715	0
Total	**312,245**	**426**		**46**	**228**	**8**	**23**	**120**	**1**	**17,060**	**74,420**	**2,388**	**7,435**	**36,664**	**240**
%			**0.1**							**12.3**	**53.8**	**1.7**	**5.2**	**26.5**	**0.2**
														Total of Estimates	**138,207**

Table 7. Continued.

2006 RunYear[f]

Sample Period	Count At Dam	Sample No.	% of Count at Dam	Natural <78 cm[d]	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[b,c]: Natural <78 cm	Estimated Number in Run[b,c]: Hatchery <78 cm	Estimated Number in Run[b,c]: Unclipped Hatchery <78 cm	Estimated Number in Run[b,c]: Natural ≥78 cm	Estimated Number in Run[b,c]: Hatchery ≥78 cm	Estimated Number in Run[b,c]: Unclipped Hatchery ≥78 cm
4/1-6/25	7,189	145	2.0	32	108	1	0	4	0	1,586	5,355	50	0	198	0
6/26-7/2	3,869	67	1.7	17	48	0	0	2	0	982	2,772	0	0	115	0
7/3-9	5,573	105	1.9	36	63	3	2	1	0	1,911	3,344	159	106	53	0
7/10-16	9,742	15	0.2	9	4	2	0	0	0	5,845	2,598	1,299	0	0	0
7/17-23	14,127	27	0.2	12	15	0	0	0	0	6,278	7,848	0	0	0	0
7/24-7/30	14,017	56	0.4	19	34	2	1	0	0	4,756	8,510	501	250	0	0
7/31-8/6	28,278	21	0.1	5	13	2	1	0	0	6,733	17,505	2,693	1347	0	0
8/7-13	37,912	51	0.1	8	38	2	1	2	0	5,947	28,248	1,487	743	1,487	0
8/14-20	35,243	12	0.0	2	10	0	0	0	0	5,874	29,369	0	0	0	0
8/21-27	30,854	26	0.1	4	17	1	0	4	0	4,747	20,174	1,187	0	4,747	0
8/28-9/3	38,835	160	0.4	9	86	8	7	47	3	2,184	20,874	1,942	1699	11,408	728
9/4-10	36,305	135	0.4	9	48	5	8	61	4	2,420	12,908	1,345	2151	16,405	1,076
9/11-17	22,957	110	0.5	1	44	7	3	52	3	209	9,183	1,461	626	10,852	626
9/18-24	21,583	134	0.6	8	42	3	5	69	7	1,289	6,765	483	805	11,114	1,128
9/25-10/1	10,404	65	0.6	7	15	1	3	35	4	1,120	2,401	160	480	5,602	640
10/2-10/31	12,026	62	0.5	7	33	1	3	17	1	1,358	6,401	194	582	3,297	194
Total	**328,914**	**1,191**		**185**	**618**	**38**	**34**	**294**	**22**	**53,239**	**184,255**	**12,961**	**8,789**	**65,278**	**4,392**
%			**0.4**							**16.2**	**56.0**	**3.9**	**2.7**	**19.8**	**1.3**

[a] There was no sampling at Bonneville Dam prior to July 5, nor were there samples from August 8 through August 15, 2004. Estimates in italics represent grouped data.

[b] We use scale sample data from the Columbia River Inter-Tribal Fishery Commission (CRITFC) to estimate run composition.

[c] 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.

[d] All fish measured in centimeter fork lengths.

[e] There was no sampling prior to August 22, as the National Marine Fisheries Service did not authorize CRITFCs contract to sample until that time during 2005.

[f] This information is a final draft until the publication of United States Army Corps of Engineers' Annual Fish Passage Report 2000.

Table 8. Estimated steelhead run composition at Lower Granite Dam, June 1, 2004 through May 31, 2007. The U.S. Army Corps of Engineers suspends counting fish at Lower Granite Dam from December 16 through February 28.

2004-2005 Run Year															
				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
6/1-9/5	8,599	313	3.6	51	247	11	3	1	0	1,401	6,786	302	83	27	0
9/6-12	10,808	1,423	13.2	273	1,023	73	23	28	3	2,073	7,770	555	175	213	23
9/13-19	28,923	3,989	13.8	531	2,934	246	88	185	5	3,850	21,274	1,784	638	1,341	36
9/20-26	23,756	3,309	13.9	423	2,307	197	80	287	15	3,037	16,562	1,414	575	2,060	108
9/27-10/3	21,048	2,943	14.0	292	1,806	198	120	494	33	2,088	12,916	1,416	858	3,533	236
10/4-10	23,839	3,247	13.6	319	1,714	199	148	806	61	2,342	12,584	1,461	1,087	5,917	448
10/11-17	10,627	1,561	14.7	132	771	89	76	452	41	899	5,249	606	517	3,077	279
10/18-24	7,386	1,033	14.0	107	509	61	42	281	33	765	3,639	436	300	2,009	236
10/25-31	4,800	717	14.9	60	350	49	29	203	26	402	2,343	328	194	1,359	174
11/1-7	2,655	431	16.2	45	219	22	14	116	15	277	1,349	136	86	715	92
11/8-14	941	142	15.1	11	72	15	5	33	6	73	477	99	33	219	40
11/15-12/15	3,389	277	8.2	24	133	19	5	92	4	294	1,627	232	61	1,126	49
3/1-13	1,235	102	8.3	10	36	4	3	42	7	121	436	48	36	509	85
3/14-20	1,299	244	18.8	26	77	16	8	101	16	138	410	85	43	538	85
3/21-27	609	141	23.2	20	59	11	6	38	7	86	255	48	26	164	30
3/28-4/3	624	122	19.6	22	54	9	3	27	7	113	276	46	15	138	36
4/4-10	313	43	13.7	10	15	2	0	14	2	73	109	15	0	102	15
4/11-17	285	49	17.2	11	16	7	4	9	2	64	93	41	23	52	12
4/18-5/31	498	56	11.2	20	13	9	3	9	2	178	116	80	27	80	18
Total	**151,634**	**20,142**		**2,387**	**12,355**	**1,237**	**660**	**3,218**	**285**	**18,274**	**94,271**	**9,132**	**4,777**	**23,179**	**2,001**
%			**13.3**							**12.1**	**62.2**	**6.0**	**3.2**	**15.3**	**1.3**
										Total Estimate		**151,634**			

Table 8. Continued.

2005-2006 Run Year

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
6/1-9/4	7,963	155	1.9	33	102	18	1	0	1	1,695	5,240	925	51	0	51
9/5-11	5,366	584	10.9	80	432	44	14	12	2	735	3,969	404	129	110	18
9/12-18	9,281	1,228	13.2	147	902	116	22	36	5	1,111	6,817	877	166	272	38
9/19-25	20,464	2,610	13.4	236	1,952	236	9	168	9	1,850	15,305	1,850	71	1,317	71
9/26-10/2	26,833	3,552	13.2	318	2,379	311	88	413	43	2,402	17,972	2,349	665	3,120	325
10/3-9	26,178	3,692	14.1	283	2,239	300	97	703	70	2,007	15,876	2,127	688	4,985	496
10/10-16	26,105	3,533	13.5	249	1,950	336	105	808	85	1,850	14,408	2,483	776	5,970	628
10/17-23	13,991	1,926	13.8	158	991	134	68	507	68	1,148	7,199	973	494	3,683	494
10/24-30	6,240	885	14.2	80	424	71	27	241	42	564	2,990	501	190	1,699	296
10/31-11/6	2,828	404	14.3	34	201	25	14	115	15	238	1,407	175	98	805	105
11/7-13	1,923	323	16.8	33	144	22	9	100	15	196	857	131	54	595	89
11/14-12/15	3,748	256	6.8	15	134	18	3	76	10	220	1,962	264	44	1,113	146
3/1-12	1,604	291	18.1	18	108	20	4	114	27	99	595	110	22	628	149
3/13-19	483	83	17.2	4	44	7	1	19	8	23	256	41	6	111	47
3/20-26	638	135	21.2	12	56	20	1	36	10	57	265	95	5	170	47
3/27-4/2	1,015	236	23.3	26	92	30	6	72	10	112	396	129	26	310	43
4/3-9	1,376	202	14.7	18	78	32	3	56	15	123	531	218	20	381	102
4/10-16	1,154	186	16.1	29	57	22	2	61	15	180	354	136	12	378	93
4/17-5/31	1,188	44	3.7	2	15	5	1	17	4	54	405	135	27	459	108
Total	**158,378**	**20,453**		**1,775**	**12,300**	**1,767**	**475**	**3,554**	**454**	**14,654**	**96,804**	**13,923**	**3,543**	**26,107**	**3,347**
%			**12.9**							**9.3**	**61.1**	**8.8**	**2.2**	**16.5**	**2.1**
										Total Estimate		**158,378**			

Table 8. Continued.

2006-2007 Run Year

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,c]: Natural <78 cm[c]	Hatchery <78 cm	Unclipped Hatchery <78 cm	Natural ≥78 cm	Hatchery ≥78 cm	Unclipped Hatchery ≥78 cm
6/1-9/3	4,455	152	3.4	12	121	18	0	1	0	352	3546	528	0	29	0
9/4-10	2,924	364	12.4	32	276	44	3	7	2	257	2217	354	24	56	16
9/11-17	12,944	1,575	12.2	160	1,128	128	22	124	13	1315	9270	1052	181	1019	107
9/18-24	18,678	2,439	13.1	161	1,793	257	21	183	24	1233	13731	1968	161	1401	184
9/25-10/1	17,607	2,317	13.2	56	1,532	279	21	358	71	426	11642	2120	160	2721	540
10/2-8	27,325	3,628	13.3	158	2,016	343	48	910	153	1190	15184	2583	361	6854	1152
10/9-15	18,372	2,452	13.3	115	1,260	232	21	722	102	862	9441	1738	157	5410	764
10/16-22	9,973	1,336	13.4	75	687	141	11	365	57	560	5128	1053	82	2725	425
10/23-29	7,614	1,042	13.7	51	492	112	18	325	44	373	3595	818	132	2375	322
10/30-11/5	4,056	621	15.3	33	322	79	6	155	26	215	2103	516	39	1012	170
11/6-12	2,550	333	13.1	17	156	25	2	114	19	130	1194	191	15	873	145
11/13-19	4,505	693	15.4	26	281	73	9	249	55	169	1827	475	59	1619	358
11/20-12/15	7,397	166	2.2	4	78	23	1	47	13	178	3,476	1,025	45	2,094	579
3/1-11	752	118	15.7	1	24	8	0	63	22	6	153	51		402	140
3/12-18	2,178	425	19.5	9	87	18	9	246	56	46	446	92	46	1,261	287
3/19-25	2,004	393	19.6	11	109	23	5	211	34	56	556	117	25	1,076	173
3/26-4/1	2,369	365	15.4	20	99	33	4	177	32	130	642	214	26	1,149	208
4/2-8	1,595	216	13.5	16	55	26	3	94	22	118	406	192	22	694	162
4/9-15	911	137	15.0	17	32	13	4	56	15	113	213	87	27	372	100
4/16-5/31	772	82	10.6	16	33	5	3	20	5	151	311	47	28	188	47
Total	**148,981**	**18,854**		**990**	**10,581**	**1,880**	**211**	**4,427**	**765**	**7,880**	**85,081**	**15,221**	**1,590**	**33,330**	**5,879**
%			**12.7**							**5.3**	**57.1**	**10.2**	**1.1**	**22.4**	**3.9**
										Total Estimate		**148,981**			

[a] 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.

[b] All fish measured in centimeter fork lengths.

[c] Semifinal data only, until steelhead counts are checked with US Army Corps of Engineers' 2006 and 2007 Annual Fish Passage reports, not published as of June 4, 2007.

DISCUSSION

Our creel data shows an increase over time regarding the number of anglers interviewed, the number of fish kept, the number of fish checked for marks, and the number of fish released by anglers. The increase regarding our basic creel values may reflect our program's effort to increase the number of fish checked for marks. This conclusion is further supported by the progressive decline of SWH values and reduced bag limits for Clearwater River sections during the report years. Additionally, permit sales remained unchanged during 2004 through 2006 run years (Tom McArthur, IDFG, unpublished data).

Coded wire tags recovered from the fishery show A- and B-stock fish typically fell within the ocean age–length categories. However, A- and B-stock 2-ocean fish were consistently short for all hatcheries during 2004 through 2005 run years except for the Clearwater Fish Hatchery. The smaller size of fish was also noted by anglers during the 2004 through 2005 run years. Mean fork length was 2 cm less for B-stock 2-ocean male fish reared by MVFH during 2005 through 2006 run years compared to the HMP ocean age–length category. As a rule, B-stock fish reared by MVFH tend to be short compared to B-stock fish reared by CFH based on limited age–length fishery data from this report and our previous report (Hansen In Press).

Statewide harvest estimates of steelhead steadily declined during the 2004 through 2006 run years. Fall season fisheries followed negative yearly trends. Unpublished seasonal angler day data show a decrease over time associated with the fall decline of harvested steelhead. However, spring fisheries show more fish being kept over time. The slight increase in fish kept over time during the spring fishery may reflect favorable fishing conditions. However, creel records of water conditions do not support the water condition – harvest success supposition. It is unlikely additional anglers contributed to spring fish harvest because the number of days fished by anglers decreased or remained constant over time (Tom McArthur, IDFG, unpublished data). More fish may be available for spring fisheries because of reductions of angler days during fall fisheries. Additionally, increased spring harvest of steelhead may be partially attributed to corresponding increased counts of steelhead at Lower Granite Dam during spring seasons. However, our reporting period is short term and many variables can influence fishing success.

Sample rates associated with run years improved by 5.6% during the report period. Sample rate data shows considerable variation exists between individual months and river sections. The HMP created spreadsheets during 2007 to help reduce variation among river section sample rates. One spreadsheet consists of tables that provide river section sample goals regarding the number of fish checked per month per river section. Goals pertaining to the number of fish checked for marks were developed from previous SWH data sets. Additionally, we developed database linked spreadsheets that calculate weekly progress toward our river section sample rate goals. We developed database linked tables of steelhead counts at Lower Granite Dam to provide creel personnel with indicators of run strength. Creel personnel can assess whether river section sample rate goals may be high or low by reviewing the run strength spreadsheet for the current year.

The number of CWT recovered in the fishery typically reflected the number of fish released and the associated mark rate. Twice as many CWT were recovered from steelhead released by the CFH during the 2006 run year compared to previous run years. We concluded that our increased sampling effort was responsible for additional CWT recoveries from CFH mark groups. Our results show we were able to recover all but one CWT mark group in the fishery for combined report years compared to only 73% during the previous 3-year report

period (Hansen In Press). It is unlikely our reporting of only 1-ocean and 2-ocean fish influenced our CWT recovery statistics to any degree because we recovered only one 3-ocean B-stock CWT during the reporting period. Historically, we have had difficulties recovering CWT from the Little Salmon River. However, we observed few, if any, LSRCP-reared fish released into the Little Salmon River received CWT marks for years covered during this reporting period.

The LSRCP harvest share of the statewide harvest estimate increased from 21% during the 2004 run year to 45.3% during the 2006 run year. We attributed the increased LSRCP harvest share to our increased effort to check more fish for marks. Thus, we were able to account for fish harvested in the fishery that may have gone undetected in the past.

Run year exploitation rates of fish for individual rearing facilities were slightly greater for 2006 through 2007. A negative relationship between the statewide harvest estimate and yearly exploitation rates during the reporting period may be attributed to our improved sample rate. However, water conditions, as well as other variables, may influence angler success.

Unfortunately, we were unable to make meaningful comparisons of fish by stock or disposition at the Bonneville Dam because of intermittent sampling. However, overall run strength remained consistent during the reporting period. We made the same observation regarding consistent run strength at Lower Granite Dam. We noted that counts of wild–natural steelhead declined at Lower Granite Dam. We do not know the reason for the decline of wild–natural fish and caution that counts were not adjusted for overlap.

RECOMMENDATIONS

1. We suggest further review of size-at-return of B-stock fish produced by different rearing facilities.

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

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

4. We will provide confidence bounds for harvest estimates by individual tag codes.

5. We will explore fishery relationships of interest to program and fishery managers.

ACKNOWLEDGMENTS

Ellen Smith, Idaho Department of Fish and Game, compiled the tables, appendices, and dam count information for this multiyear report. 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. Oregon Department of Fish and Wildlife and the Intertribal Fisheries Commission provided adult sample data for Bonneville Dam. Jerry Harmon, National Marine Fisheries Service, provided adult sample data for Lower Granite Dam.

LITERATURE CITED

Hansen, J. In Press. Evaluation of Idaho steelhead harvest for Lower Snake River Compensation Plan hatchery programs, September 1, 2001 to April 30, 2004. Idaho Department of Fish and Game, Boise.

APPENDICES

Appendix A. Steelhead fishery interview data (unexpanded) from the lower Snake River, Clearwater River, and Salmon River, August 2004 through April 2007. Only interviews of anglers using an Idaho license are included.

Fall 2004–Spring 2005 Season

Season/ River Section	Month	State Collecting Data[a]	No. Anglers	Total Hours Fished	Steelhead Kept	Steelhead Released		Total Catch	No. Snouts in Creel		
						Hatchery	Wild[b]		Checked For CWT	Taken	Not Taken
Fall 2004											
01	Sep	ID	101	594	79	1	49	129	49	5	0
01	Sep	WA	13	62	3	0	7	10	3	1	--
	Sep Total		114	656	82	1	56	139	52	6	0
01	Oct	ID	314	1,829	115	12	91	218	100	7	0
01	Oct	WA	49	237	20	0	8	28	20	4	--
	Oct Total		363	2,066	135	12	99	246	120	11	0
01	Nov	ID	174	975	57	10	56	123	47	5	0
01	Nov	WA	68	452	48	10	36	94	48	8	--
	Nov Total		242	1,427	105	20	92	217	95	13	0
01	Dec	ID	69	511	39	0	38	77	39	2	0
01	Dec	WA	74	381	45	1	36	82	45	5	--
	Dec Total		143	892	84	1	74	159	84	7	0
Section 01 Fall Total			**862**	**5,042**	**406**	**34**	**321**	**761**	**351**	**37**	**0**
03	Aug	ID	332	1,147	30	3	27	60	29	3	0
03	Sep	ID	215	938	32	3	16	51	30	3	0
03	Oct	ID	1,005	4,092	180	44	149	373	163	17	0
03	Nov	ID	1,061	3,995	161	14	84	259	152	8	3
03	Dec	ID	796	2,723	216	30	146	392	192	15	1
Section 03 Fall Total			**3,409**	**12,893**	**619**	**94**	**422**	**1,135**	**566**	**46**	**4**
04	Oct	ID	20	91	1	0	1	2	0	0	0
04	Nov	ID	0	0	0	0	0	0	0	0	0
04	Dec	ID	17	53	1	0	1	2	1	0	0
Section 04 Fall Total			**37**	**144**	**2**	**0**	**2**	**4**	**1**	**0**	**0**

Appendix A. Continued.

Fall 2004–Spring 2005 Season, continued.

Season/ River Section	Month	State Collecting Data[a]	No. Anglers	Total Hours Fished	Steelhead Kept	Steelhead Released		Total Catch	No. Snouts in Creel		
						Hatchery	Wild[b]		Checked For CWT	Taken	Not Taken
05	Oct	ID	18	56	7	1	1	9	6	3	0
05	Nov	ID	84	310	5	0	5	10	5	1	0
05	Dec	ID	57	212	9	7	2	18	8	1	0
Section 5 Fall Total			**159**	**578**	**21**	**8**	**8**	**37**	**19**	**5**	**0**
07	Dec	ID	11	26	0	0	0	0	0	0	0
Section 07 Fall Total			**11**	**26**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
10	Sep	ID	10	35	1	0	1	2	0	0	0
10	Oct	ID	93	796	10	4	19	33	7	0	0
10	Nov	ID	64	385	16	0	10	26	9	1	0
10	Dec	ID	17	130	7	0	6	13	3	1	0
Section 10 Fall Total			**184**	**1,346**	**34**	**4**	**36**	**74**	**19**	**2**	**0**
11	Sep	ID	20	91	4	1	1	6	3	0	0
11	Oct	ID	242	1,437	29	19	52	100	23	0	0
11	Nov	ID	257	1,343	53	5	25	83	38	3	0
11	Dec	ID	24	84	2	0	3	5	1	0	0
Section 11 Fall Total			**543**	**2,955**	**88**	**25**	**81**	**194**	**65**	**3**	**0**
12	Sep	ID	19	117	0	0	0	0	0	0	0
12	Oct	ID	1,039	7,810	303	117	260	680	274	9	0
12	Nov	ID	978	6,219	225	31	86	342	213	13	0
12	Dec	ID	20	96	2	0	2	4	2	1	0
Section 12 Fall Total			**2,056**	**14,242**	**530**	**148**	**348**	**1,026**	**489**	**23**	**0**
13	Oct	ID	217	2,701	101	4	88	193	99	6	0
13	Nov	ID	109	1,430	64	1	29	94	59	4	0
Section 13 Fall Total			**326**	**4,131**	**165**	**5**	**117**	**287**	**158**	**10**	**0**
14	Oct	ID	463	6,279	196	55	310	561	184	19	2
14	Nov	ID	334	4,718	341	122	240	703	342	38	2
Section 14 Fall Total			**797**	**10,997**	**537**	**177**	**550**	**1,264**	**526**	**57**	**4**

Appendix A. Continued.

Fall 2004–Spring 2005 Season, continued.

Season/ River Section	Month	State Collecting Data[a]	No. Anglers	Total Hours Fished	Steelhead Kept	Steelhead Released Hatchery	Steelhead Released Wild[b]	Total Catch	No. Snouts in Creel Checked For CWT	No. Snouts in Creel Taken	No. Snouts in Creel Not Taken
15	Oct	ID	1,696	17,610	792	310	410	1,512	746	83	1
15	Nov	ID	1,362	13,568	555	240	244	1,039	539	50	2
Section 15 Fall Total			**3,058**	**31,177**	**1,347**	**550**	**654**	**2,551**	**1,285**	**133**	**3**
16	Oct	ID	529	1,952	92	43	35	170	69	4	0
16	Nov	ID	584	1,860	80	16	27	123	73	4	0
Section 16 Fall Total			**1,113**	**3,812**	**172**	**59**	**62**	**293**	**142**	**8**	**0**
17	Oct	ID	17	82	12	0	0	12	12	1	0
17	Nov	ID	55	145	11	1	2	14	10	1	0
Section 17 Fall Total			**72**	**227**	**23**	**1**	**2**	**26**	**22**	**2**	**0**
20	Sep	ID	3	36	5	0	0	5	4	0	0
20	Oct	ID	71	295	25	5	14	44	21	1	0
20	Nov	ID	82	268	7	5	16	28	6	0	0
20	Dec	ID	14	52	3	0	1	4	3	2	0
Section 20 Fall Total			**170**	**651**	**40**	**10**	**31**	**81**	**34**	**3**	**0**
Fall 2004 Total			**12,797**	**88,220**	**3,984**	**1,115**	**2,634**	**7,733**	**3,677**	**329**	**11**
Spring 2005											
01	Jan	WA	32	120	7	1	20	28	7	1	--
Section 01 Spring Total			**32**	**120**	**7**	**1**	**20**	**28**	**7**	**1**	**0**
03	Jan	ID	496	1,823	108	4	96	208	101	8	0
03	Feb	ID	321	1,267	63	10	35	108	51	9	0
03	Mar	ID	41	140	10	4	7	21	9	1	0
03	Apr	ID	17	114	6	3	1	10	5	0	0
Section 03 Spring Total			**875**	**3,344**	**187**	**21**	**139**	**347**	**166**	**18**	**0**

Appendix A. Continued.

Fall 2004–Spring 2005 Season, continued.

Season/ River Section	Month	State Collecting Data[a]	No. Anglers	Total Hours Fished	Steelhead Kept	Steelhead Released		Total Catch	No. Snouts in Creel		
						Hatchery	Wild[b]		Checked For CWT	Taken	Not Taken
04	Jan	ID	64	228	1	1	6	8	1	0	0
04	Feb	ID	192	920	20	2	20	42	14	1	0
04	Mar	ID	48	220	16	3	12	31	10	0	0
Section 04 Spring Total			**304**	**1,368**	**37**	**6**	**38**	**81**	**25**	**1**	**0**
05	Jan	ID	154	668	44	14	14	72	39	3	0
05	Feb	ID	52	197	13	11	2	26	10	0	0
05	Mar	ID	15	83	9	7	4	20	3	0	0
05	Apr	ID	67	374	21	21	14	56	11	0	0
Section 05 Spring Total			**288**	**1,322**	**87**	**53**	**34**	**174**	**63**	**3**	**0**
07	Jan	ID	111	395	29	12	25	66	21	2	0
07	Feb	ID	664	2,641	61	10	92	163	52	6	0
07	Mar	ID	743	3,286	145	48	216	409	127	9	1
07	Apr	ID	473	2,184	110	72	280	462	80	2	0
Section 07 Spring Total			**1,991**	**8,506**	**345**	**142**	**613**	**1,100**	**280**	**19**	**1**
11	Feb	ID	66	326	9	0	7	16	7	0	0
11	Mar	ID	152	414	19	2	23	44	19	1	0
Section 11 Spring Total			**218**	**740**	**28**	**2**	**30**	**60**	**26**	**1**	**0**
12	Feb	ID	242	1,289	22	0	14	36	20	0	0
12	Mar	ID	563	3,552	87	60	114	261	84	2	0
Section 12 Spring Total			**805**	**4,841**	**109**	**60**	**128**	**297**	**104**	**2**	**0**
13	Feb	ID	10	72	3	0	1	4	3	0	0
13	Mar	ID	67	595	13	3	24	40	13	0	0
Section 13 Spring Total			**77**	**667**	**16**	**3**	**25**	**44**	**16**	**0**	**0**
14	Mar	ID	238	2,404	70	28	121	219	66	6	1
Section 14 Spring Total			**238**	**2,404**	**70**	**28**	**121**	**219**	**66**	**6**	**1**

Appendix A. Continued.

Fall 2004–Spring 2005 Season, continued.

Season/ River Section	Month	State Collecting Data[a]	No. Anglers	Total Hours Fished	Steelhead Kept	Steelhead Released		Total Catch	No. Snouts in Creel		
						Hatchery	Wild[b]		Checked For CWT	Taken	Not Taken
15	Mar	ID	1,488	15,000	738	461	482	1,681	720	59	7
15	Apr	ID	34	425	13	8	13	34	13	1	0
Section 15 Spring Total			**1,522**	**15,425**	**751**	**469**	**495**	**1,715**	**733**	**60**	**7**
16	Mar	ID	644	2,502	96	36	27	159	74	3	0
16	Apr	ID	29	246	4	2	1	7	3	1	0
Section 16 Spring Total			**673**	**2,747**	**100**	**38**	**28**	**166**	**77**	**4**	**0**
17	Mar	ID	563	3,326	92	49	17	158	85	13	1
17	Apr	ID	534	5,966	208	166	23	397	262	13	3
Section 17 Spring Total			**1,097**	**9,292**	**300**	**215**	**40**	**555**	**347**	**26**	**4**
18	Mar	ID	117	609	23	10	10	43	22	6	0
18	Apr	ID	367	2,392	41	64	39	144	31	5	1
Section 18 Spring Total			**484**	**3,001**	**64**	**74**	**49**	**187**	**53**	**11**	**1**
19	Mar	ID	7	113	1	0	1	2	1	0	0
19	Apr	ID	1,400	6,780	277	159	387	823	233	22	0
Section 19 Spring Total			**1,407**	**6,893**	**278**	**159**	**388**	**825**	**234**	**22**	**0**
20	Feb	ID	26	112	1	0	0	1	1	0	0
20	Mar	ID	284	1,214	44	6	110	160	34	1	0
20	Apr	ID	488	1,909	104	21	234	359	92	2	2
20	May	ID	5	17	0	0	1	1	0	0	0
Section 20 Spring Total			**803**	**3,252**	**149**	**27**	**345**	**521**	**127**	**3**	**2**
Spring 2005 Total			**10,814**	**63,921**	**2,528**	**1,298**	**2,493**	**6,319**	**2,324**	**177**	**16**
2004-2005 Season Total			**23,611**	**152,141**	**6,512**	**2,413**	**5,127**	**14,052**	**6,001**	**506**	**27**

Appendix A. Continued.

Fall 2005–Spring 2006 Season

Season/ River Section	Month	State Collecting Data[a]	No. Anglers	Total Hour Fished	Steelhead Kept	Steelhead Released		Total Catch	No. of Snouts in Creel		
						Hatchery	Wild[b]		Checked For CWT	Taken	Not Taken
Fall 2005											
01	Sep	ID	41	193	12	4	23	39	11	0	0
01	Sep	WA	9	75	24	1	3	28	24	5	--
	Sep Total		50	268	36	5	26	67	35	5	0
01	Oct	ID	245	1,617	127	4	89	220	115	1	1
01	Oct	WA	58	382	32	5	25	62	32	8	--
	Oct Total		303	1,999	159	9	114	282	147	9	1
01	Nov	ID	127	822	88	9	35	132	88	1	1
01	Nov	WA	85	476	59	9	53	121	59	12	--
	Nov Total		212	1,298	147	18	88	253	147	13	1
01	Dec	WA	22	118	17	23	0	40	17	3	--
Section 01 Fall Total			**587**	**3,683**	**359**	**55**	**228**	**642**	**346**	**30**	**2**
02	Oct	ID	18	125	10	3	1	14	10	0	0
Section 02 Fall Total			**18**	**125**	**10**	**3**	**1**	**14**	**10**	**0**	**0**
03	Aug	ID	84	304	6	1	4	11	5	0	0
03	Sep	ID	193	613	31	6	14	51	28	3	2
03	Oct	ID	667	3,044	111	10	67	188	98	9	1
03	Nov	ID	634	2,719	107	3	73	183	107	12	2
03	Dec	ID	164	554	41	2	19	62	41	1	0
Section 03 Fall Total			**1,742**	**7,234**	**296**	**22**	**177**	**495**	**279**	**25**	**5**
04	Oct	ID	1	1	0	0	0	0	0	0	0
04	Nov	ID	19	47	5	5	2	12	2	0	0
04	Dec	ID	4	7	0	0	0	0	0	0	0
Section 04 Fall Total			**24**	**55**	**5**	**5**	**2**	**12**	**2**	**0**	**0**

Appendix A. Continued.

Fall 2005–Spring 2006 Season, continued.

Season/ River Section	Month	State Collecting Data[a]	No. Anglers	Total Hour Fished	Steelhead Kept	Steelhead Released		Total Catch	No. of Snouts in Creel		
						Hatchery	Wild[b]		Checked For CWT	Taken	Not Taken
05	Oct	ID	1	1	0	0	0	0	0	0	0
05	Nov	ID	66	208	8	0	2	10	8	0	0
05	Dec	ID	116	411	36	8	11	55	36	0	0
Section 05 Fall Total			**183**	**620**	**44**	**8**	**13**	**65**	**44**	**0**	**0**
07	Nov	ID	11	24	0	0	1	1	0	0	0
07	Dec	ID	8	29	2	0	0	2	2	0	0
Section 07 Fall Total			**19**	**53**	**2**	**0**	**1**	**3**	**2**	**0**	**0**
10	Sep	ID	12	76	1	0	0	1	0	0	0
10	Oct	ID	96	538	9	3	26	38	7	2	0
10	Nov	ID	15	26	0	0	0	0	0	0	0
Section 10 Fall Total			**123**	**640**	**10**	**3**	**26**	**39**	**7**	**2**	**0**
11	Sep	ID	28	97	2	0	3	5	2	0	0
11	Oct	ID	252	1,145	30	17	32	79	26	2	0
11	Nov	ID	211	833	18	5	15	38	17	1	0
11	Dec	ID	14	44	1	0	0	1	1	0	0
Section 11 Fall Total			**505**	**2,119**	**51**	**22**	**50**	**123**	**46**	**3**	**0**
12	Sep	ID	17	60	0	0	0	0	0	0	0
12	Oct	ID	791	5,780	139	23	148	310	134	22	1
12	Nov	ID	804	4,604	172	22	103	297	168	25	0
12	Dec	ID	23	72	4	2	4	10	4	0	0
Section 12 Fall Total			**1,635**	**10,516**	**315**	**47**	**255**	**617**	**306**	**47**	**1**
13	Oct	ID	133	1,566	27	1	37	65	24	0	0
13	Nov	ID	135	1,981	88	1	115	204	77	17	0
Section 13 Fall Total			**268**	**3,547**	**115**	**2**	**152**	**269**	**101**	**17**	**0**
14	Oct	ID	366	5,248	69	36	250	355	61	9	0
14	Nov	ID	235	4,128	292	28	232	552	284	52	1
Section 14 Fall Total			**601**	**9,376**	**361**	**64**	**482**	**907**	**345**	**61**	**1**

Appendix A. Continued.

Fall 2005–Spring 2006 Season, continued.

Season/ River Section	Month	State Collecting Data[a]	No. Anglers	Total Hour Fished	Steelhead Kept	Steelhead Released		Total Catch	No. of Snouts in Creel		
						Hatchery	Wild[b]		Checked For CWT	Taken	Not Taken
15	Oct	ID	1,300	16,942	544	131	364	1,039	495	100	1
15	Nov	ID	1,268	14,307	725	299	359	1,383	692	95	1
Section 15 Fall Total			**2,568**	**31,249**	**1,269**	**430**	**723**	**2,422**	**1,187**	**195**	**2**
16	Oct	ID	278	1,454	45	25	22	92	40	7	0
16	Nov	ID	243	1,182	76	12	24	112	61	11	0
Section 16 Fall Total			**521**	**2,635**	**121**	**37**	**46**	**204**	**101**	**18**	**0**
20	Oct	ID	24	83	4	2	4	10	4	0	0
20	Nov	ID	43	119	2	0	7	9	2	1	0
20	Dec	ID	5	13	0	0	0	0	0	0	0
Section 20 Fall Total			**72**	**215**	**6**	**2**	**11**	**19**	**6**	**1**	**0**
Fall 2005 Total			**8,866**	**72,066**	**2,964**	**700**	**2,167**	**5,831**	**2,782**	**399**	**11**
Spring 2006											
01	Feb	ID	3	9	1	0	1	2	1	1	0
Section 01 Spring Total			**3**	**9**	**1**	**0**	**1**	**2**	**1**	**1**	**0**
03	Jan	ID	268	1,092	93	25	85	203	89	0	1
03	Feb	ID	198	849	35	5	28	68	35	0	0
03	Mar	ID	58	241	16	2	4	22	16	0	0
03	Apr	ID	6	21	4	10	6	20	2	0	0
Section 03 Spring Total			**530**	**2,203**	**148**	**42**	**123**	**313**	**142**	**0**	**1**
04	Jan	ID	109	432	33	14	37	84	27	3	0
04	Feb	ID	284	1,139	62	3	28	93	56	4	0
04	Mar	ID	376	1,576	94	31	66	191	92	3	0
04	Apr	ID	9	42	1	0	1	2	1	0	0
Section 04 Spring Total			**778**	**3,189**	**190**	**48**	**132**	**370**	**176**	**10**	**0**

Appendix A. Continued.

Fall 2005–Spring 2006 Season, continued.

Season/ River Section	Month	State Collecting Data[a]	No. Anglers	Total Hour Fished	Steelhead Kept	Steelhead Released		Total Catch	No. of Snouts in Creel		
						Hatchery	Wild[b]		Checked For CWT	Taken	Not Taken
05	Jan	ID	165	765	51	6	8	65	31	4	0
05	Feb	ID	96	512	31	1	3	35	30	3	0
05	Mar	ID	75	225	7	7	7	21	4	1	0
05	Apr	ID	94	325	34	29	15	78	34	4	1
Section 05 Spring Total			**430**	**1,827**	**123**	**43**	**33**	**199**	**99**	**12**	**1**
07	Jan	ID	235	605	27	8	28	63	17	1	0
07	Feb	ID	385	1,288	24	18	40	82	24	8	0
07	Mar	ID	1,478	5,987	271	168	492	931	261	25	0
07	Apr	ID	676	2,726	121	53	419	593	117	9	1
Section 7 Spring Total			**2,774**	**10,606**	**443**	**247**	**979**	**1,669**	**419**	**43**	**1**
10	Mar	ID	2	2	0	0	0	0	0	0	0
Section 10 Spring Total			**2**	**2**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
11	Feb	ID	71	235	13	1	3	17	12	1	1
11	Mar	ID	98	377	17	1	17	35	17	0	1
11	Apr	ID	5	14	0	0	0	0	0	0	0
Section 11 Spring Total			**174**	**626**	**30**	**2**	**20**	**52**	**29**	**1**	**2**
12	Feb	ID	168	895	24	9	18	51	19	2	0
12	Mar	ID	583	2,701	83	16	53	152	75	9	0
12	Apr	ID	95	291	2	0	0	2	1	0	0
Section 12 Spring Total			**846**	**3,887**	**109**	**25**	**71**	**205**	**95**	**11**	**0**
13	Feb	ID	3	9	0	0	0	0	0	2	0
13	Mar	ID	153	1,409	19	13	25	57	17	0	0
Section 13 Spring Total			**156**	**1,418**	**19**	**13**	**25**	**57**	**17**	**2**	**0**
14	Mar	ID	230	2,308	76	40	126	242	76	17	0
14	Apr	ID	3	25	2	25	20	47	2	0	0
Section 14 Spring Total			**233**	**2,332**	**78**	**65**	**146**	**289**	**78**	**17**	**0**

Appendix A. Continued.

Fall 2005–Spring 2006 Season, continued.

Season/ River Section	Month	State Collecting Data[a]	No. Anglers	Total Hour Fished	Steelhead Kept	Steelhead Released		Total Catch	No. of Snouts in Creel		
						Hatchery	Wild[b]		Checked For CWT	Taken	Not Taken
15	Mar	ID	1,344	14,145	907	918	517	2,342	905	153	4
15	Apr	ID	65	591	7	6	6	19	7	0	0
Section 15 Spring Total			**1,409**	**14,736**	**914**	**924**	**523**	**2,361**	**912**	**153**	**4**
16	Mar	ID	887	3,072	168	39	93	300	162	18	4
16	Apr	ID	315	1,402	66	40	44	150	61	14	0
Section 16 Spring Total			**1,202**	**4,474**	**234**	**79**	**137**	**450**	**223**	**32**	**4**
17	Mar	ID	900	3,500	130	32	64	226	117	7	2
17	Apr	ID	1,091	8,449	411	222	64	697	381	52	2
Section 17 Spring Total			**1,991**	**11,949**	**541**	**254**	**128**	**923**	**498**	**59**	**4**
18	Mar	ID	126	399	40	3	8	51	35	1	0
18	Apr	ID	434	2,458	45	125	45	215	41	4	2
Section 18 Spring Total			**560**	**2,857**	**85**	**128**	**53**	**266**	**76**	**5**	**2**
19	Mar	ID	9	27	5	0	0	5	5	0	0
19	Apr	ID	973	3,760	297	300	104	701	291	22	3
Section 19 Spring Total			**982**	**3,787**	**302**	**300**	**104**	**706**	**296**	**22**	**3**
20	Feb	ID	31	78	0	0	8	8	0	0	0
20	Mar	ID	414	1,455	34	10	118	162	30	4	0
20	Apr	ID	361	1,609	124	42	281	447	115	13	1
20	May	ID	29	63	2	5	18	25	2	0	0
Section 20 Spring Total			**835**	**3,205**	**160**	**57**	**425**	**642**	**147**	**17**	**1**
Spring 2006 Total			**12,905**	**67,107**	**3,377**	**2,227**	**2,900**	**8,504**	**3,208**	**385**	**23**
2005-2006 Season Total			**21,771**	**139,173**	**6,341**	**2,927**	**5,067**	**14,335**	**5,990**	**784**	**34**

Appendix A. Continued.

Fall 2006–Spring 2007 Season

Season/ River Section	Month	State Collecting Data[a]	No. Anglers	Total Hours Fished	Steelhead Kept	Steelhead Released		Total Catch	No. of Snouts in Creel			Snouts Voluntarily Returned[c]
						Hatchery	Wild[b]		Checked For CWT	Taken	Not Taken	
Fall 2006												
01	Sep	ID	99	474	13	0	6	19	13	2	0	0
01	Sep	WA	2	8	0	0	0	0	0	0	--	--
	Sep Total		101	482	13	0	6	19	13	2	0	0
01	Oct	ID	410	2,559	173	7	93	273	170	19	2	12
01	Oct	WA	77	519	36	0	7	43	36	6	--	--
	Oct Total		487	3,078	209	7	100	316	206	25	2	12
01	Nov	ID	278	1,410	85	8	64	157	55	9	0	15
01	Nov	WA	77	605	32	3	37	72	32	9	--	--
	Nov Total		355	2,015	117	11	101	229	87	18	0	15
Section 01 Fall Total			**943**	**5,575**	**339**	**18**	**207**	**564**	**306**	**45**	**2**	**27**
02	Sep	ID	14	90	12	0	4	16	12	3	0	0
02	Oct	ID	132	602	52	2	61	115	46	4	0	1
02	Nov	ID	153	673	37	0	64	101	19	4	0	5
Section 02 Fall Total			**299**	**1,365**	**101**	**2**	**129**	**232**	**77**	**11**	**0**	**6**
03	Aug	ID	150	499	13	4	9	26	13	3	0	0
03	Sep	ID	284	1,106	30	9	13	52	30	5	0	0
03	Oct	ID	598	2,743	55	21	31	107	54	4	0	5
03	Nov	ID	711	3,407	296	15	155	466	247	25	1	99
03	Dec	ID	530	2,135	195	31	110	336	125	12	0	120
Section 03 Fall Total			**2,273**	**9,890**	**589**	**80**	**318**	**987**	**469**	**49**	**1**	**224**
04	Oct	ID	0	0	0	0	0	0	0	0	0	8
04	Nov	ID	0	0	0	0	0	0	0	0	0	59
04	Dec	ID	13	30	2	0	3	5	2	0	0	15
Section 04 Fall Total			**13**	**30**	**2**	**0**	**3**	**5**	**2**	**0**	**0**	**82**

Appendix A. Continued.

Fall 2006–Spring 2007 Season, continued.

Season/ River Section	Month	State Collecting Data[a]	No. Anglers	Total Hours Fished	Steelhead Kept	Steelhead Released		Total Catch	No. of Snouts in Creel			Snouts Voluntarily Returned[c]
						Hatchery	Wild[b]		Checked For CWT	Taken	Not Taken	
05	Nov	ID	11	55	2	0	0	2	2	0	0	0
05	Dec	ID	142	596	21	1	8	30	11	2	0	0
Section 05 Fall Total			**153**	**651**	**23**	**1**	**8**	**32**	**13**	**2**	**0**	**0**
07	Nov	ID	10	21	2	0	0	2	2	0	0	0
07	Dec	ID	11	20	0	0	0	0	0	0	0	0
Section 07 Fall Total			**21**	**41**	**2**	**0**	**0**	**2**	**2**	**0**	**0**	**0**
10	Sep	ID	41	128	7	0	4	11	7	0	0	0
10	Oct	ID	141	454	20	0	22	42	19	1	0	3
10	Nov	ID	127	409	24	0	18	42	4	1	0	5
10	Dec	ID	4	1	0	0	0	0	0	0	0	4
Section 10 Fall Total			**313**	**992**	**51**	**0**	**44**	**95**	**30**	**2**	**0**	**12**
11	Sep	ID	16	57	1	0	0	1	1	0	0	0
11	Oct	ID	233	1,078	35	6	22	63	33	4	0	3
11	Nov	ID	135	624	34	5	18	57	30	4	1	28
11	Dec	ID	6	25	0	0	0	0	0	0	0	16
Section 11 Fall Total			**390**	**1,784**	**70**	**11**	**40**	**121**	**64**	**8**	**1**	**47**
12	Oct	ID	852	5,424	179	20	129	328	157	20	0	--
12	Nov	ID	800	4,876	178	28	84	290	166	27	0	--
12	Dec	ID	5	14	1	0	0	1	1	0	0	--
Section 12 Fall Total			**1,657**	**10,314**	**358**	**48**	**213**	**619**	**324**	**47**	**0**	**0**
13	Oct	ID	112	1,336	59	0	18	77	57	6	0	--
13	Nov	ID	155	1,722	57	3	34	94	55	6	0	--
Section 13 Fall Total			**267**	**3,058**	**116**	**3**	**52**	**171**	**112**	**12**	**0**	**0**
14	Oct	ID	264	2,893	102	12	90	204	97	16	0	--
14	Nov	ID	282	3,474	213	24	103	340	206	21	1	--
Section 14 Fall Total'			**546**	**6,367**	**315**	**36**	**193**	**544**	**303**	**37**	**1**	**0**

Appendix A. Continued.

Fall 2006–Spring 2007 Season, continued.

Season/ River Section	Month	State Collecting Data[a]	No. Anglers	Total Hours Fished	Steelhead Kept	Steelhead Released		Total Catch	No. of Snouts in Creel			Snouts Voluntarily Returned[c]
						Hatchery	Wild[b]		Checked For CWT	Taken	Not Taken	
15	Sep	ID	30	113	0	0	0	0	0	0	0	--
15	Oct	ID	1,197	12,567	516	155	201	872	460	75	0	--
15	Nov	ID	1,137	11,648	398	114	135	647	366	64	4	--
Section 15 Fall Total			**2,364**	**24,328**	**914**	**269**	**336**	**1,519**	**826**	**139**	**4**	**0**
16	Sep	ID	5	30	0	0	0	0	0	0	0	--
16	Oct	ID	387	1,613	63	59	21	143	58	12	1	--
16	Nov	ID	485	1,979	73	14	18	105	55	8	0	--
Section 16 Fall Total			**877**	**3,621**	**136**	**73**	**39**	**248**	**113**	**20**	**1**	**0**
17	Oct	ID	50	180	9	7	3	19	5	0	0	--
17	Nov	ID	82	366	30	4	1	35	28	3	0	--
Section 17 Fall Total			**132**	**546**	**39**	**11**	**4**	**54**	**33**	**3**	**0**	**0**
20	Oct	ID	59	163	10	0	10	20	10	0	0	--
20	Nov	ID	100	264	8	2	25	35	8	1	1	--
20	Dec	ID	13	36	1	0	5	6	1	0	0	--
Section 20 Fall Total			**172**	**463**	**19**	**2**	**40**	**61**	**19**	**1**	**1**	**0**
Fall 2006 Total			**10,420**	**69,024**	**3,074**	**554**	**1,626**	**5,254**	**2,693**	**376**	**11**	**398**
Spring 2006												
03	Jan	ID	729	3,452	271	34	222	527	225	22	1	89
03	Feb	ID	478	2,468	94	14	38	146	76	8	0	34
03	Mar	ID	59	251	11	7	4	22	11	0	0	0
03	Apr	ID	6	21	2	0	0	2	2	0	0	0
Section 03 Spring Total			**1,272**	**6,192**	**378**	**55**	**264**	**697**	**314**	**30**	**1**	**123**
04	Jan	ID	11	33	2	0	1	3	2	0	0	11
04	Feb	ID	439	2,046	160	33	110	303	129	13	0	105
04	Mar	ID	399	1,803	103	29	49	181	87	3	0	19
Section 04 Spring Total			**849**	**3,882**	**265**	**62**	**160**	**487**	**218**	**16**	**0**	**135**

Appendix A. Continued.

Fall 2006–Spring 2007 Season, continued.

Season/ River Section	Month	State Collecting Data[a]	No. Anglers	Total Hours Fished	Steelhead Kept	Steelhead Released		Total Catch	No. of Snouts in Creel			Snouts Voluntarily Returned[c]
						Hatchery	Wild[b]		Checked For CWT	Taken	Not Taken	
05	Jan	ID	237	1,091	85	13	20	118	77	6	3	3
05	Feb	ID	152	540	22	20	9	51	21	2	0	0
05	Mar	ID	203	580	35	33	21	89	25	1	0	0
05	Apr	ID	39	118	5	4	3	12	3	0	0	0
Section 05 Spring Total			**631**	**2,329**	**147**	**70**	**53**	**270**	**126**	**9**	**3**	**3**
07	Jan	ID	14	23	1	0	0	1	1	0	0	0
07	Feb	ID	533	2,145	170	157	190	517	132	14	1	13
07	Mar	ID	2,088	10,076	654	270	960	1,884	572	44	3	22
07	Apr	ID	495	1,812	109	115	443	667	92	10	0	0
Section 07 Spring Total			**3,130**	**14,056**	**934**	**542**	**1,593**	**3,069**	**797**	**68**	**4**	**35**
10	Jan	ID	0	0	0	0	0	0	0	0	0	6
10	Feb	ID	86	520	25	4	5	34	22	4	0	14
10	Mar	ID	8	30	0	0	0	0	0	0	0	0
Section 10 Spring Total			**94**	**550**	**25**	**4**	**5**	**34**	**22**	**4**	**0**	**20**
11	Jan	ID	0	0	0	0	0	0	0	0	0	16
11	Feb	ID	131	584	23	3	16	42	23	1	0	27
11	Mar	ID	67	278	5	3	12	20	3	0	0	1
Section 11 Spring Total			**198**	**862**	**28**	**6**	**28**	**62**	**26**	**1**	**0**	**44**
12	Jan	ID	0	0	0	0	0	0	0	0	0	10
12	Feb	ID	345	1,747	53	9	28	90	52	12	0	1
12	Mar	ID	465	2,460	67	11	67	145	63	8	0	0
Section 12 Spring Total			**810**	**4,207**	**120**	**20**	**95**	**235**	**115**	**20**	**0**	**11**
13	Feb	ID	32	377	19	12	14	45	19	3	0	--
13	Mar	ID	3	8	0	0	3	3	0	0	0	--
Section 13 Spring Total			**35**	**385**	**19**	**12**	**17**	**48**	**19**	**3**	**0**	**0**
14	Feb	ID	3	12	0	0	0	0	0	0	0	--
14	Mar	ID	246	3,314	120	34	95	249	111	12	0	--
14	Apr	ID	1	32	0	0	12	12	0	0	0	--
Section 14 Spring Total			**250**	**3,358**	**120**	**34**	**107**	**261**	**111**	**12**	**0**	**0**

Appendix A. Continued.

Fall 2006–Spring 2007 Season, continued.

Season/ River Section	Month	State Collecting Data[a]	No. Anglers	Total Hours Fished	Steelhead Kept	Steelhead Released		Total Catch	No. of Snouts in Creel			Snouts Voluntarily Returned[c]
						Hatchery	Wild[b]		Checked For CWT	Taken	Not Taken	
15	Feb	ID	26	46	1	0	1	2	0	0	0	--
15	Mar	ID	1,384	12,713	505	326	193	1,024	464	58	3	--
15	Apr	ID	10	84	1	0	0	1	1	0	0	--
Section 15 Spring Total			**1,420**	**12,843**	**507**	**326**	**194**	**1,027**	**465**	**58**	**3**	**0**
16	Feb	ID	126	444	29	31	7	67	22	2	0	--
16	Mar	ID	741	2,581	162	42	37	241	147	15	0	--
16	Apr	ID	53	134	2	8	0	10	2	0	0	--
Section 16 Spring Total			**920**	**3,159**	**193**	**81**	**44**	**318**	**171**	**17**	**0**	**0**
17	Feb	ID	121	275	13	1	2	16	13	3	0	--
17	Mar	ID	1,210	7,717	498	422	70	990	445	39	3	--
17	Apr	ID	668	5,397	421	425	61	907	380	72	0	--
Section 17 Spring Total			**1,999**	**13,388**	**932**	**848**	**133**	**1,913**	**838**	**114**	**3**	**0**
18	Feb	ID	13	23	4	2	0	6	4	2	0	--
18	Mar	ID	668	3,006	96	78	21	195	72	10	0	--
18	Apr	ID	458	2,120	75	170	18	263	69	10	0	--
Section 18 Spring Total			**1,139**	**5,149**	**175**	**250**	**39**	**464**	**145**	**22**	**0**	**0**
19	Mar	ID	714	3,523	333	647	135	1,115	299	38	3	--
19	Apr	ID	776	3,331	213	372	110	695	170	10	0	--
Section 19 Spring Total			**1,490**	**6,854**	**546**	**1,019**	**245**	**1,810**	**469**	**48**	**3**	**0**
20	Feb	ID	148	423	9	0	42	51	9	2	0	--
20	Mar	ID	525	2,352	159	22	605	786	145	20	0	--
20	Apr	ID	342	1,448	78	40	442	560	70	14	0	--
Section 20 Spring Total			**1,015**	**4,223**	**246**	**62**	**1,089**	**1,397**	**224**	**36**	**0**	**0**
Spring 2007 Total			**15,252**	**81,436**	**4,635**	**3,391**	**4,066**	**12,092**	**4,060**	**458**	**17**	**371**
2006-2007 Season Total			**25,672**	**150,460**	**7,709**	**3,945**	**5,692**	**17,346**	**6,753**	**834**	**28**	**769**

[a] Some Snake River creel data from Fall 2004 through Spring 2007 collected by Washington Department of Fish and Wildlife (J. Bumgarner, Washington Department of Fish and Wildlife, personal communication).

[b] Includes hatchery-produced steelhead with intact adipose fins.

[c] During Fall 2006, creel personnel on the Snake River, Clearwater River, and lower Salmon River (Sections 10 through 13) collected and checked snouts voluntarily returned by anglers, outfitters and guides, and fish processors to increase the number of fish checked for marks.

Appendix B. 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, fall 2004 through spring 2007. Returns are separated by rearing hatchery and recovery location.

2004-2005 Run Year						
Recovery Location	**Sex**	**Sample Size[a]**	**Age Composition by Stock-Ocean Age[b]**		**Mean Fork Length (cm) by Stock-Ocean Age[b]**	
			Clearwater Fish Hatchery			
Clearwater River			B-1	B-2	B-1	B-2
		N	N (%)	N (%)		
	Males	15	7 (47%)	8 (53%)	66±3	90±2
	Females	17	0 (0%)	17 (100%)	-	82±2
	Clearwater River Total	32	7 (22%)	25 (78%)	66±3	84±2
			32 coded wire tags were recovered in the 2004-2005 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%)	0 (0%)	60	-
	Females	1	1 (100%)	0 (0%)	-	-
	Snake River, A-stock Total	1	1 (100%)	0 (0%)	60	-
			B-1	B-2	B-1	B-2
		N	N (%)	N (%)		
	Males	1	1 (100%)	0 (0%)	70	-
	Females	1	0 (0%)	1 (100%)	-	75
	Snake River, B-stock Total	2	1 (50%)	1 (50%)	70	75
Clearwater River			A-1	A-2	A-1	A-2
		N	N (%)	N (%)		
	Males	0	0 (0%)	0 (0%)	-	-
	Females	1	1 (100%)	0 (0%)	61	-
	Clearwater River Total	1	1 (100%)	0 (0%)	61	-
Salmon River			A-1	A-2	A-1	A-2
		N	N (%)	N (%)		
	Males	98	91 (93%)	7 (7%)	58±1	66±3
	Females	90	70 (78%)	20 (22%)	56±1	65±2
	Salmon River, A-stock Total	188	161 (86%)	27 (14%)	57±0	66±1

Appendix B. Continued.

2004-2005 Run Year, continued.

Recovery Location	Sex	Sample Size[a]	Age Composition by Stock-Ocean Age[b]		Mean Fork Length (cm) by Stock-Ocean Age[b]	
Salmon River, continued.			B-1	B-2	B-1	B-2
		N	N (%)	N (%)		
	Males	17	11 (65%)	6 (35%)	62±2	78±3
	Females	20	5 (25%)	15 (75%)	63±10	74±2
	Salmon River, B-stock Total	37	16 (43%)	21 (57%)	62±3	75±2

219 coded wire tags were recovered in the 2004-2005 steelhead fishery from fish reared at Magic Valley Fish Hatchery

Hagerman National Fish Hatchery

Salmon River			A-1	A-2	A-1	A-2
		N	N (%)	N (%)		
	Males	13	9 (69%)	4 (31%)	58±2	67±7
	Females	17	10 (59%)	7 (41%)	57±1	68±1
	Salmon River Total	30	19 (63%)	11 (37%)	58±1	67±2

30 coded wire tags were recovered in the 2004-2005 steelhead fishery from fish reared at Hagerman National Fish Hatchery

All LSRCP Hatcheries, Combined

Statewide, **291** coded wire tags were recovered in the 2004-2005 steelhead fishery from LSRCP-reared fish

Appendix B. Continued.

2005-2006 Run Year

Recovery Location	Sex	Sample Size[a]	Age Composition by Stock-Ocean Age[b]		Mean Fork Length (cm) by Stock-Ocean Age[b]	
			Clearwater Fish Hatchery			
Clearwater River			B-1	B-2	B-1	B-2
		N	N (%)	N (%)		
	Males	26	7 (27%)	19 (73%)	66±3	86±3
	Females	33	2 (6%)	31 (94%)	65±2	81±2
	Clearwater River Total	59	9 (15%)	50 (85%)	66±2	83±2
Little Salmon River			B-1	B-2	B-1	B-2
		N	N (%)	N (%)		
	Males	0	0 (0%)	0 (0%)	-	-
	Females	1	0 (0%)	1 (100%)	-	79
	Little Salmon River Total	1	0 (0%)	1 (100%)	-	79
			60 coded wire tags were recovered in the 2005-2006 steelhead fishery from fish reared at Clearwater Fish Hatchery[c]			
			Magic Valley Fish Hatchery			
Salmon River			A-1	A-2	A-1	A-2
		N	N (%)	N (%)		
	Males	143	115 (80%)	28 (20%)	60±1	69±1
	Females	175	127 (73%)	48 (27%)	59±1	67±1
	Salmon River, A-stock Total	318	242 (76%)	76 (24%)	59±0	68±1
			B-1	B-2	B-1	B-2
		N	N (%)	N (%)		
	Males	59	8 (14%)	51 (86%)	64±1	78±2
	Females	78	2 (3%)	76 (97%)	61±6	76±1
	Salmon River, B-stock Total	137	10 (7%)	127 (93%)	64±2	77±1
			455 coded wire tags were recovered in the 2005-2006 steelhead fishery from fish reared at Magic Valley Fish Hatchery[d]			
			Hagerman National Fish Hatchery			
Snake River		A-1	A-2	A-1	A-2	Salmon River
		N	N (%)	N (%)		
	Males	1	0 (0%)	1 (100%)	-	65
	Females	1	1 (100%)	0 (0%)	56	-
	Snake River Total	2	1 (50%)	1 (50%)	56	65
Salmon River			A-1	A-2	A-1	A-2
		N	N (%)	N (%)		

Appendix B. Continued.

2005-2006 Run Year, continued.

Recovery Location	Sex	Sample Size[a]	Age Composition by Stock-Ocean Age[b]		Mean Fork Length (cm) by Stock-Ocean Age[b]	
Salmon River, continued.						
	Males	21	19 (90%)	2 (10%)	61±2	70±3
	Females	41	27 (66%)	14 (34%)	59±1	67±1
	Salmon River Total	62	46 (74%)	16 (26%)	60±1	68±2

64 coded wire tags were recovered in the 2005-2006 steelhead fishery
from fish reared at Hagerman National Fish Hatchery

All LSRCP Hatcheries, Combined

Statewide, **579** coded wire tags were recovered in the 2005-2006 steelhead fishery
from LSRCP-reared fish[b,c]

Appendix B. Continued.

2006-2007 Run Year

Recovery Location	Sex	Sample Size[a]	Age Composition by Stock-Ocean Age[b]		Mean Fork Length (cm) by Stock-Ocean Age[b]	
			Clearwater Fish Hatchery			
Snake River			B-1	B-2	B-1	B-2
		N	N (%)	N (%)		
				1 (100%)		
	Males	1	0 (0%)	%)	-	84
	Females	1	1 (100%)	0 (0%)	67	-
	Snake River Total	2	1 (50%)	1 (50%)	67	84
Clearwater River			B-1	B-2	B-1	B-2
		N	N (%)	N (%)		
	Males	57	17 (30%)	40 (70%)	69±2	87±2
	Females	75	4 (5%)	71 (95%)	67±4	84±1
	Clearwater River Total	132	21 (16%)	111 (84%)	68±1	85±1
			134 coded wire tags were recovered in the 2006-2007 steelhead fishery from fish reared at Clearwater Fish Hatchery[e]			
			Magic Valley Fish Hatchery			
Snake River			A-1	A-2	A-1	A-2
		N	N (%)	N (%)		
	Males	5	4 (80%)	1 (20%)	58±2	68
	Females	3	3 (100%)	0 (0%)	61±1	-
	Snake River, A-stock Total	8	7 (88%)	1 (13%)	59±2	68
			B-1	B-2	B-1	B-2
		N	N (%)	N (%)		
	Males	4	1 (25%)	3 (75%)	68	80±6
	Females	1	0 (0%)	1 (100%)	-	78
	Snake River, B-stock Total	5	1 (20%)	4 (80%)	68	80±5
Clearwater River			B-1	B-2	B-1	B-2
		N	N (%)	N (%)		
	Males	1	1 (100%)	0 (0%)	70	-
	Females	0	0 (0%)	0 (0%)	-	-
	Clearwater River Total	1	1 (100%)	0 (0%)	70	-
Salmon River			A-1	A-2	A-1	A-2
		N	N (%)	N (%)		
	Males	107	89 (83%)	18 (17%)	59±1	68±2
	Females	107	69 (64%)	38 (36%)	57±1	68±1
	Salmon River, A-stock Total	214	158 (74%)	56 (26%)	59±1	68±1

Appendix B. Continued.

2006-2007 Run Year, continued.

Recovery Location	Sex	Sample Size[a]	Age Composition by Stock-Ocean Age[b]		Mean Fork Length (cm) by Stock-Ocean Age[b]	
			B-1	B-2	B-1	B-2
		N	N (%)	N (%)		
	Males	17	5 (29%)	12 (71%)	62±1	82±2
	Females	31	5 (16%)	26 (84%)	66±6	78±1
	Salmon River, B-stock Total	48	10 (21%)	38 (79%)	64±3	79±1
Little Salmon River			B-1	B-2	B-1	B-2
		N	N (%)	N (%)		
	Males	2	1 (50%)	1 (50%)	68	84
	Females	4	0 (0%)	4 (100%)	-	81±2
	Little Salmon River Total	6	1 (17%)	5 (83%)	68	81±2

282 coded wire tags were recovered in the 2006-2007 steelhead fishery from fish reared at Magic Valley Fish Hatchery[f]

Hagerman National Fish Hatchery

Snake River		A-1	A-2	A-1	A-2	Salmon River
		N	N (%)	N (%)		
	Males	0	0 (0%)	0 (0%)	-	-
	Females	3	3 (100%)	0 (0%)	62±2	-
	Snake River Total	3	3 (100%)	0 (0%)	62±2	-
Salmon River			A-1	A-2	A-1	A-2
		N	N (%)	N (%)		
	Males	83	77 (93%)	6 (7%)	59±1	72±4
	Females	56	50 (89%)	6 (11%)	58±1	66±4
	Salmon River Total	139	127 (91%)	12 (9%)	59±1	69±3

142 coded wire tags were recovered in the 2006-2007 steelhead fishery from fish reared at Hagerman National Fish Hatchery[g]

All LSRCP Hatcheries, Combined

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

[b] Includes only 1- and 2-ocean fish.

[c] One additional coded wire tag (CWT) (104810 released from Clearwater Fish Hatchery), listed in the CWT database as recovered in the Clearwater River during the 2005-2006 steelhead season, was from a 94 cm fork length, 3-ocean age, female steelhead.

[d] One additional CWT (106873 released from the Magic Valley Fish Hatchery) listed in the CWT database as recovered in the Salmon River during the 2005-2006 steelhead season, was without specific biodata.

[e] Does not include 68 coded wire tags released from Clearwater Fish Hatchery, listed in the CWT database as recovered in the Clearwater River drainage during the 2006-2007 steelhead fishing season, which were taken from snouts voluntarily returned by sportsmen. The snouts were recovered without specific biodata.

[f] Does not include 11 coded wire tags released from Magic Valley Fish Hatchery, listed in the CWT database as recovered in the Snake and Salmon rivers during the 2006-2007 steelhead fishing season, which were taken from snouts voluntarily returned by sportsmen. The snouts were recovered without specific biodata.

[g] Does not include one coded wire tag released from Hagerman Fish Hatchery, listed in the CWT database as recovered in the Salmon River during the 2006-2007 steelhead fishing season, which was taken from snouts voluntarily returned by sportsmen. The snout was recovered without specific biodata.

Appendix C. Coded wire tag recoveries of Lower Snake River Compensation Plan 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, fall 2004 through spring 2007.

2004-2005 Season[a]

Tag Code	Stock and Ocean Age	Release Site	No. Fish Released	Recovery Month	River Section (Total)	No. Tags	Sample Rate	Estimated Harvest
Hagerman National Fish Hatchery Releases								
10/07/72	A-2	Sawtooth Hatchery	43,087	October	14	1	0.215	5
				October	15	3	0.246	12
				November	14	1	0.482	2
				November	15	1	0.257	4
				March	15	3	0.294	10
				March	18	1	0.095	11
				April	19	1	0.211	5
					Total	**11**		**49**
10/79/70	A-1	Sawtooth Hatchery	17,361	October	15	4	0.246	16
				November	15	1	0.257	4
					Total	**5**		**20**
10/80/70	A-1	Sawtooth Hatchery	17,239	October	14	2	0.215	9
				October	15	5	0.246	20
				October	16	1	0.167	6
				October	17	1	0.035	29
				November	14	1	0.482	2
				November	16	1	0.121	8
				March	15	1	0.294	3
				April	19	2	0.211	9
					Total	**14**		**86**
Hagerman National Fish Hatchery Total		3 Marked Groups				**30**		**155**
Magic Valley Fish Hatchery Releases								
10/10/72	B-2	Squaw Creek (Upper Salmon River)	9,893	October	14	2	0.215	9
				October	15	1	0.246	4
				March	12	1	0.295	3
				April	19	1	0.211	5
					Total	**5**		**21**
10/11/72	A-2	Salmon River at Challis	10,943	November	14	1	0.482	2
					Total	**1**		**2**
10/12/72	A-2	Lemhi River at St. Charles bridge	10,833	October	15	2	0.246	8
				November	14	1	0.482	2
				March	15	1	0.294	3
					Total	**4**		**13**
10/57/73	B-1	Squaw Creek Ponds	29,522	October	15	2	0.246	8

Appendix C. Continued.

2004-2005 Season[a], continued.

Tag Code	Stock and Ocean Age	Release Site	No. Fish Released	Recovery Month	River Section (Total)	No. Tags	Sample Rate	Estimated Harvest
10/57/73	B-1	Squaw Creek Ponds, continued.		November	15	1	0.257	4
				March	15	1	0.294	3
				April	15	1	0.04	25
					Total	**5**		**40**
10/58/73	B-1	Squaw Creek Ponds	26,874	October	14	2	0.215	9
				November	12	1	0.258	4
				November	14	1	0.482	2
				November	15	1	0.257	4
				March	15	2	0.294	7
					Total	**7**		**26**
10/59/73	A-1	Salmon River at Colston Corners	31,754	October	15	6	0.246	24
				November	15	5	0.257	19
				November	16	1	0.121	8
				March	15	4	0.294	14
				March	17	1	0.123	8
				April	18	1	0.066	15
					Total	**18**		**88**
10/60/73	A-1	Pahsimeroi River	32,846	September	03	1	0.025	40
				October	14	2	0.215	9
				October	15	6	0.246	24
				October	16	1	0.167	6
				November	01	1	0.07	14
				November	14	1	0.482	2
				November	15	4	0.257	16
				March	14	1	0.373	3
				March	15	1	0.294	3
				March	17	1	0.123	8
				April	17	2	0.325	6
					Total	**21**		**131**
10/61/73	A-1	Salmon River at McNabb Point	32,892	October	14	2	0.215	9
				October	15	10	0.246	41
				November	14	2	0.482	4
				November	15	2	0.257	8
				March	15	4	0.294	14
				March	17	2	0.123	16
				March	18	2	0.095	21
				April	15	1	0.04	25
				April	17	1	0.325	3
				April	19	1	0.211	5
					Total	**27**		**146**
10/62/73	A-1	West Fork Yankee Fork Salmon River	33,633	October	14	2	0.215	9
				October	15	10	0.246	41
				October	16	1	0.167	6
				November	13	1	0.151	7
				November	14	2	0.482	4
				November	15	3	0.257	12
				November	16	3	0.121	25
				November	17	1	0.043	23
				March	14	1	0.373	3
				March	15	3	0.294	10

Appendix C. Continued.

2004-2005 Season[a], continued.

Tag Code	Stock and Ocean Age	Release Site	No. Fish Released	Recovery Month	River Section (Total)	No. Tags	Sample Rate	Estimated Harvest
10/62/73	A-1	West Fork Yankee Fork Salmon River, continued.		March	17	1	0.123	8
				March	18	4	0.095	42
				April	18	1	0.066	15
				April	19	3	0.211	14
					Total	**36**		**219**
10/63/73	A-1	Salmon River at Red Rock	32,446	October	12	1	0.218	5
				October	14	3	0.215	14
				October	15	12	0.246	49
				October	16	2	0.167	12
				November	14	3	0.482	6
				November	15	5	0.257	19
				March	15	10	0.294	34
				March	17	2	0.123	16
					Total	**38**		**155**
10/64/73	A-1	Lemhi River at county scale	31,872	October	15	5	0.246	20
				November	14	6	0.482	12
				November	15	4	0.257	16
				March	12	1	0.295	3
				March	14	1	0.373	3
				March	15	4	0.294	14
				March	17	1	0.123	8
				April	16	1	0.017	59
					Total	**23**		**135**
10/66/70	B-2	Squaw Creek (Upper Salmon River)	20,439	October	14	1	0.215	5
				October	15	1	0.246	4
				November	15	2	0.257	8
				April	19	6	0.211	28
					Total	**10**		**45**
10/67/70	A-2	Salmon River at Challis	21,504	October	15	1	0.246	4
				March	15	2	0.294	7
				March	16	1	0.085	12
				March	17	1	0.123	8
					Total	**5**		**31**
10/68/70	A-2	Lemhi River at St. Charles bridge	21,328	October	14	1	0.215	5
				October	15	4	0.246	16
				November	11	1	0.043	23
				November	13	1	0.151	7
				November	14	1	0.482	2
				November	15	2	0.257	8
				March	15	6	0.294	20
				March	16	1	0.085	12
					Total	**17**		**93**
10/93/71	B-2	Squaw Creek (Upper Salmon River)	31,518	October	13	1	0.245	4
				October	14	1	0.215	5
				November	01	1	0.07	14
				March	15	1	0.294	3
				April	18	2	0.066	30
				April	19	1	0.211	5
					Total	**7**		**61**

Appendix C. Continued.

2004-2005 Season[a], continued.

Tag Code	Stock and Ocean Age	Release Site	No. Fish Released	Recovery Month	River Section (Total)	No. Tags	Sample Rate	Estimated Harvest
10/97/72	B-1	Squaw Creek (Upper Salmon River)	69,123	November	01	1	0.07	14
					Total	**1**		**14**
10/98/72	B-1	Squaw Creek Ponds (Upper Salmon River)	61,042	October	14	1	0.215	5
				November	15	1	0.257	4
				March	15	1	0.294	3
				April	17	1	0.325	3
					Total	**4**		**15**
Magic Valley Fish Hatchery Total		**17 Marked Groups**				**229**		**1,235**
Clearwater Fish Hatchery								
10/48/10	B-2	South Fork Clearwater River at Red House Hole	21,104	October	03	1	0.058	17
				January	03	1	0.065	15
				February	07	3	0.114	26
				March	07	3	0.122	25
					Total	**8**		**83**
10/48/11	B-2	South Fork Clearwater River at Red House Hole	22,327	October	03	2	0.058	34
				November	03	2	0.045	44
				January	03	1	0.065	15
				February	03	1	0.044	23
				February	07	2	0.114	18
					Total	**8**		**134**
10/48/12	B-2	South Fork Clearwater River at Red House Hole	22,629	October	03	2	0.058	34
				December	03	2	0.091	22
				March	07	1	0.122	8
				April	07	1	0.139	7
					Total	**6**		**71**
10/63/70	B-2	Crooked River Ponds	12,573	January	07	1	0.202	5
				March	07	1	0.122	8
					Total	**2**		**13**
10/65/70	B-2	Crooked River Ponds	9,403	January	07	1	0.202	5
					Total	**1**		**5**
10/95/72	B-1	South Fork Clearwater River at Red House Hole	62,806	March	07	4	0.122	33
				April	07	1	0.139	7
					Total	**5**		**40**
10/96/72	B-1	Crooked River Ponds	62,848	December	03	1	0.091	11
				March	07	1	0.122	8
					Total	**2**		**19**
Clearwater Fish Hatchery Total		**7 Marked Groups**				**32**		**365**
Grand Total		**27 Marked Groups**				**291**		**1,755**

Appendix C. Continued.

2005-2006 Season[a]

Tag Code	Stock and Ocean-age	Release Site	No. Fish Released	Recovery Month	River Section (Total)	No. Tags	Sample Rate	Estimated Harvest
Hagerman National Fish Hatchery Releases								
10/79/70	A-2	Sawtooth Hatchery	17,361	October	15	4	0.244	16
				March	15	1	0.286	3
				April	18	1	0.071	14
					Total	**6**		**33**
10/80/70	A-2	Sawtooth Hatchery	17,239	September	01	1	0.137	7
				October	15	4	0.244	16
				October	16	1	0.096	10
				March	15	4	0.286	14
				April	19	1	0.225	4
					Total	**11**		**51**
10/85/70	A-1	Sawtooth Hatchery	21,610	October	12	1	0.296	3
				October	15	2	0.244	8
				November	14	1	0.239	4
				November	15	2	0.379	5
				November	16	1	0.117	9
				March	15	1	0.286	3
				April	19	4	0.225	18
					Total	**12**		**50**
10/86/70	A-1	Sawtooth Hatchery	21,013	September	01	1	0.137	7
				November	14	1	0.239	4
				November	15	2	0.379	5
				March	15	1	0.286	3
				March	17	1	0.183	5
				April	19	5	0.225	22
					Total	**11**		**46**
10/87/70	A-1	Sawtooth Hatchery	21,592	October	14	1	0.096	10
				October	15	4	0.244	16
				October	16	1	0.096	10
				November	15	2	0.379	5
				November	16	1	0.117	9
				March	15	3	0.286	10
				April	19	1	0.225	4
					Total	**13**		**64**
10/88/70	A-1	Sawtooth Hatchery	21,441	October	15	1	0.244	4
				November	14	1	0.239	4
				November	15	6	0.379	16
				November	16	1	0.117	9
				March	15	1	0.286	3
				March	16	1	0.388	3
					Total	**11**		**39**
Hagerman National Fish Hatchery Total		**6 Marked Groups**				**64**		**283**

Appendix C. Continued.

2005-2006 Season[a], continued.

Tag Code	Stock and Ocean-age	Release Site	No. Fish Released	Recovery Month	River Section (Total)	No. Tags	Sample Rate	Estimated Harvest
Magic Valley Fish Hatchery Releases								
10/01/71	B-1	Squaw Creek Ponds	20,353	November	14	1	0.239	4
					Total	**1**		**4**
10/02/71	B-1	Squaw Creek Ponds	18,298	November	15	1	0.379	3
				March	15	1	0.286	3
					Total	**2**		**6**
10/03/71	B-1	Squaw Creek Ponds	17,974	November	14	1	0.239	4
				November	16	1	0.117	9
				March	17	1	0.183	5
					Total	**3**		**18**
10/03/73	A-1	Salmon River at Colston Corner	10,569	October	15	1	0.244	4
				November	14	2	0.239	8
				November	15	4	0.379	11
				April	16	1	0.236	4
				April	17	2	0.402	5
					Total	**10**		**32**
10/04/73	A-1	Salmon River at Red Rock	10,576	October	15	6	0.244	25
				November	12	1	0.388	3
				November	14	3	0.239	13
				November	15	5	0.379	13
				March	13	1	0.125	8
				March	15	11	0.286	38
				March	16	1	0.388	3
				April	16	1	0.236	4
					Total	**29**		**107**
10/05/71	A-1	Salmon River at Colston Corner	20,581	October	15	5	0.244	20
				October	16	1	0.096	10
				October	20	1	0.031	32
				November	13	1	0.159	6
				November	14	2	0.239	8
				November	15	7	0.379	18
				November	16	1	0.117	9
				February	11	1	0.028	36
				March	14	1	0.178	6
				March	15	13	0.286	45
				April	17	1	0.402	2
				April	18	2	0.071	28
					Total	**36**		**220**
10/06/71	A-1	Salmon River at Red Rock	20,600	October	12	1	0.296	3
				October	15	9	0.244	37
				November	12	1	0.388	3
				November	13	1	0.159	6
				November	14	1	0.239	4
				November	15	8	0.379	21
				March	14	1	0.178	6
				March	15	11	0.286	38

Appendix C. Continued.

2005-2006 Season[a], continued.

Tag Code	Stock and Ocean-age	Release Site	No. Fish Released	Recovery Month	River Section (Total)	No. Tags	Sample Rate	Estimated Harvest
10/06/71	A-1	Salmon River at Red Rock, continued.		March	16	4	0.388	10
				March	17	2	0.183	11
				April	16	1	0.236	4
					Total	**40**		**143**
10/22/75	B-1	Squaw Creek Ponds	31,761	November	12	1	0.388	3
				April	18	1	0.071	14
					Total	**2**		**17**
10/23/75	B-1	Squaw Creek Ponds	31,134	November	13	1	0.159	6
					Total	**1**		**6**
10/24/75	A-1	Yankee Fork Salmon River at third bridge up	32,809	November	14	1	0.239	4
				November	15	1	0.379	3
				March	15	2	0.286	7
				April	17	1	0.402	2
					Total	**5**		**16**
10/25/75	A-1	Salmon River at McNabb Point	32,299	October	15	4	0.244	16
				October	16	1	0.096	10
				November	12	1	0.388	3
				November	13	1	0.159	6
				November	14	1	0.239	4
				November	15	4	0.379	11
				November	16	1	0.117	9
				March	14	1	0.178	6
				March	15	4	0.286	14
				March	16	2	0.388	5
				March	17	2	0.183	11
				April	16	1	0.236	4
				April	17	2	0.402	5
					Total	**25**		**104**
10/26/75	A-1	Pahismeroi Hatchery	26,031	October	14	1	0.096	10
				October	15	4	0.244	16
				October	16	1	0.096	10
				November	13	2	0.159	13
				November	14	3	0.239	13
				November	15	5	0.379	13
				November	16	1	0.117	9
				March	14	1	0.178	6
				March	15	11	0.286	38
				March	16	1	0.388	3
				April	16	1	0.236	4
				April	17	12	0.402	30
					Total	**43**		**165**
10/35/75	B-1	Little Salmon River	66,580	October	10	1	0.009	111
					Total	**1**		**111**
10/57/73	B-2	Squaw Creek Ponds	29,522	October	12	1	0.296	3
				October	14	2	0.096	21
				October	15	2	0.244	8
				October	16	1	0.096	10
				November	11	1	0.022	45

Appendix C. Continued.

2005-2006 Season[a], continued.

Tag Code	Stock and Ocean-age	Release Site	No. Fish Released	Recovery Month	River Section (Total)	No. Tags	Sample Rate	Estimated Harvest
10/57/73	B-2	Squaw Creek Ponds, continued.		November	14	5	0.239	21
				November	15	7	0.379	18
				March	14	1	0.178	6
				March	15	5	0.286	17
				March	16	1	0.388	3
				March	17	1	0.183	5
				April	17	2	0.402	5
				April	19	2	0.225	9
					Total	**31**		**171**
10/58/73	B-2	Squaw Creek Ponds	26,874	October	14	1	0.096	10
				October	15	2	0.244	8
				November	12	2	0.388	5
				November	14	7	0.239	29
				November	15	3	0.379	8
				March	15	7	0.286	24
				March	16	1	0.388	3
				April	17	1	0.402	2
				April	19	2	0.225	9
					Total	**26**		**98**
10/59/73	A-2	Salmon River at Colston Corner	31,754	October	15	5	0.244	20
				November	15	2	0.379	5
				March	15	1	0.286	3
				April	17	1	0.402	2
				April	18	1	0.071	14
					Total	**10**		**44**
10/60/73	A-2	Pahsimeroi River	32,846	October	15	5	0.244	20
				October	16	1	0.096	10
				November	15	4	0.379	11
				March	15	3	0.286	10
				March	16	1	0.388	3
				March	17	1	0.183	5
					Total	**15**		**59**
10/61/73	A-2	Salmon River at McNabb Point	32,892	October	15	3	0.244	12
				November	15	4	0.379	11
				March	15	4	0.286	14
				March	17	1	0.183	5
				April	17	1	0.402	2
					Total	**13**		**44**
10/62/73	A-2	West Fork Yankee Fork Salmon River	33,633	October	15	2	0.244	8
				October	16	1	0.096	10
				November	15	2	0.379	5
				November	16	1	0.117	9
				March	15	2	0.286	7
				March	17	1	0.183	5
				March	18	2	0.094	21
				April	19	2	0.225	9
					Total	**13**		**74**
10/63/73	A-2	Salmon River at Red Rock	32,446	October	15	6	0.244	25
				November	14	1	0.239	4

Appendix C. Continued.

2005-2006 Season[a], continued.

Tag Code	Stock and Ocean-age	Release Site	No. Fish Released	Recovery Month	River Section (Total)	No. Tags	Sample Rate	Estimated Harvest
10/63/73	A-2	Salmon River at Red Rock, continued.		November	15	3	0.379	8
				March	15	6	0.286	21
					Total	**16**		**58**
10/64/73	A-2	Lemhi River at county scale	31,872	October	14	1	0.096	10
				October	15	1	0.244	4
				November	15	3	0.379	8
				March	15	4	0.286	14
					Total	**9**		**36**
10/68/73	A-1	Lemhi River at St. Charles bridge	28,235	October	12	1	0.296	3
				October	15	10	0.244	41
				November	13	1	0.159	6
				November	14	5	0.239	21
				November	15	7	0.379	18
				March	12	1	0.591	2
				March	14	1	0.178	6
				March	15	17	0.286	59
				March	16	4	0.388	10
				March	17	2	0.183	11
				April	16	6	0.236	25
					Total	**55**		**202**
10/97/72	B-2	Squaw Creek (Upper Salmon River)	69,123	October	12	1	0.296	3
				October	14	1	0.096	10
				October	15	2	0.244	8
				October	20	2	0.031	65
				November	13	2	0.159	13
				November	14	3	0.239	13
				November	16	1	0.117	9
				March	12	1	0.591	2
				March	14	1	0.178	6
				March	15	9	0.286	31
				March	17	1	0.183	5
				April	17	2	0.402	5
				April	19	2	0.225	9
					Total	**28**		**179**
10/98/72	B-2	Squaw Creek Ponds	61,042	October	15	5	0.244	20
				November	13	3	0.159	19
				November	14	5	0.239	21
				November	15	4	0.379	11
				November	16	1	0.117	9
				March	14	1	0.178	6
				March	15	11	0.286	38
				March	17	2	0.183	11
				April	17	1	0.402	2
				April	19	2	0.225	9
					Total	**35**		**146**
10/99/72	B-2	Little Salmon River at Stinky Springs	65,097	November	12	2	0.388	5
				November	14	1	0.239	4
				March	12	3	0.591	5
				April	20	1	0.117	9
					Total	**7**		**23**

Appendix C. Continued.

2005-2006 Season[a], continued.

Tag Code	Stock and Ocean-age	Release Site	No. Fish Released	Recovery Month	River Section (Total)	No. Tags	Sample Rate	Estimated Harvest
Magic Valley Fish Hatchery Total		**25 Marked Groups**				**456**		**2,083**
Clearwater Fish Hatchery								
10/37/75	B-1	Crooked River	65,120	November	03	1	0.057	18
				March	07	2	0.217	9
				April	07	1	0.169	6
					Total	**4**		**33**
10/38/75	B-1	South Fork Clearwater River at Red House Hole	66,097	January	03	1	0.067	15
				January	04	1	0.038	26
				March	07	3	0.217	14
					Total	**5**		**55**
10/95/72	B-2	South Fork Clearwater River at Red House Hole	62,806	October	03	2	0.036	56
				November	03	2	0.057	35
				January	03	1	0.067	15
				January	04	2	0.038	53
				January	07	1	0.059	17
				February	04	2	0.079	25
				February	07	5	0.055	91
				March	04	2	0.173	12
				March	07	16	0.217	74
				March	20	1	0.041	24
				April	07	9	0.169	53
					Total	**43**		**455**
10/96/72	B-2	Crooked River ponds	62,848	December	03	1	0.062	16
				January	03	1	0.067	15
				February	04	1	0.079	13
				February	07	2	0.055	36
				March	07	3	0.217	14
					Total	**8**		**94**
Clearwater Fish Hatchery Total		**4 Marked Groups**				**60**		637
Grand Total		**35 Marked Groups**				**580**		**3,003**

Appendix C. Continued.

2006-2007 Season[a]

Tag Code	Stock and Ocean-age	Release Site	No. Fish Released	Recovery Month	River Section (Total)	No. Tags	Sample Rate	Estimated Harvest
Hagerman National Fish Hatchery Releases								
10/81/70	A-1	Sawtooth Hatchery	20,834	September	1	1	0.032	31
				October	1	1	0.376	3
				October	15	7	0.244	29
				October	16	1	0.071	14
				November	11	1	0.101	10
				November	13	1	-	1[b]
				November	14	1	0.203	5
				November	15	8	0.227	35
				February	11	1	0.080	13
				February	12	1	0.228	4
				February	17	1	0.103	10
				February	18	1	0.105	10
				March	15	1	0.417	2
				March	18	1	0.187	5
				March	19	6	0.194	31
					Total	**33**		**203**
10/82/70	A-1	Sawtooth Hatchery	21,907	October	12	1	0.226	4
				October	15	5	0.244	20
				October	16	3	0.071	42
				November	14	2	0.203	10
				November	15	6	0.227	26
				November	16	1	0.136	7
				March	14	1	0.350	3
				March	15	5	0.417	12
				March	17	1	0.343	3
				March	19	6	0.194	31
				April	18	1	0.595	2
				April	19	3	0.108	28
					Total	**35**		**188**
10/85/70	A-2	Sawtooth Hatchery	21,610	February	17	1	0.103	10
				March	19	1	0.194	5
					Total	**2**		**15**
10/86/70	A-2	Sawtooth Hatchery	21,013	March	15	3	0.417	7
				March	19	1	0.194	5
					Total	**4**		**12**
10/87/70	A-2	Sawtooth Hatchery	21,592	October	15	1	0.244	4
					Total	**1**		**4**
10/88/70	A-2	Sawtooth Hatchery	21,441	November	15	1	0.227	4
				March	19	3	0.194	15
				April	18	1	0.595	2
					Total	**5**		**21**
10/91/70	A-1	Sawtooth Hatchery	21,239	October	10	1	0.039	26
				October	14	1	0.135	7
				October	15	5	0.244	20
				November	12	1	0.305	3
				November	15	8	0.227	35

Appendix C. Continued.

2006-2007 Season[a], continued.

Tag Code	Stock and Ocean-age	Release Site	No. Fish Released	Recovery Month	River Section (Total)	No. Tags	Sample Rate	Estimated Harvest
10/91/70	A-1	Sawtooth Hatchery, continued.		November	16	1	0.136	7
				March	14	1	0.350	3
				March	15	4	0.417	10
				March	19	6	0.194	31
				4	19	5	0.108	46
					Total	**33**		**188**
10/92/70	A-1	Sawtooth Hatchery	21,581	October	1	1	0.376	3
				October	12	1	0.226	4
				October	13	1	0.241	4
				October	15	6	0.244	25
				October	16	1	0.071	14
				November	14	1	0.203	5
				November	15	2	0.227	9
				November	16	1	0.136	7
				March	12	1	0.504	2
				March	14	2	0.350	6
				March	15	3	0.417	7
				March	16	1	0.375	3
				March	18	1	0.187	5
				March	19	4	0.194	21
				April	19	4	0.108	37
					Total	**30**		**152**
Hagerman National Fish Hatchery Total		**8 Marked Groups**				**143**		**783**

Magic Valley Fish Hatchery Releases

10/01/71	B-2	Squaw Creek Ponds[c]	20,353	October	2	2	0.167	12
				November	13	2	--	2[b]
				March	14	1	0.350	3
				March	15	1	0.417	2
				March	17	1	0.343	3
				March	19	2	0.194	10
				April	19	1	0.108	9
					Total	**10**		**41**
10/02/71	B-2	Squaw Creek Ponds[c]	18,298	October	1	1	0.376	3
				November	15	2	0.227	9
				January	11	1	0.100	10
				February	12	1	0.228	4
				March	15	2	0.417	5
				March	19	2	0.194	10
					Total	**9**		**41**
10/03/71	B-2	Squaw Creek Ponds[c]	17,974	October	12	1	0.226	4
				November	15	1	0.227	4
				February	13	1	0.188	5
				March	15	4	0.417	10
				April	17	1	0.508	2
					Total	**8**		**25**

Appendix C. Continued.

2006-2007 Season[a], continued.

Tag Code	Stock and Ocean-age	Release Site	No. Fish Released	Recovery Month	River Section (Total)	No. Tags	Sample Rate	Estimated Harvest
10/03/73	A-2	Salmon River at Colston Corner	10,569	March	15	2	0.417	5
				April	17	1	0.508	2
					Total	**3**		**7**
10/04/73	A-2	Salmon River at Red Rock	10,576	October	14	1	0.135	7
				October	15	2	0.244	8
				November	15	1	0.227	4
				March	15	1	0.417	2
				March	16	1	0.375	3
					Total	**6**		**24**
10/05/71	A-2	Salmon River at Colston Corner	20,581	October	15	1	0.244	4
				October	16	1	0.071	14
				November	15	2	0.227	9
				March	15	1	0.417	2
				March	17	2	0.343	6
				March	18	1	0.187	5
					Total	**8**		**40**
10/06/71	A-2	Salmon River at Red Rock	20,600	October	15	3	0.244	12
				November	15	1	0.227	4
				March	12	1	0.504	2
					Total	**5**		**18**
10/22/75	B-2	Squaw Creek Ponds[c]	31,761	October	13	1	0.241	4
				October	14	1	0.135	7
				March	15	1	0.417	2
				April	18	1	0.595	2
					Total	**4**		**15**
10/23/75	B-2	Squaw Creek Ponds[c]	31,134	October	10	1	0.039	26
				October	12	2	0.226	9
				November	15	1	0.227	4
				February	13	1	0.188	5
				March	14	1	0.350	3
				March	15	1	0.417	2
				April	18	1	0.595	2
					Total	**8**		**51**
10/24/75	A-2	Yankee Fork Salmon River at third bridge up	32,809	March	17	1	0.343	3
				March	19	2	0.194	10
					Total	**3**		**13**
10/25/75	A-2	Salmon River at McNabb Point	32,299	October	12	1	0.226	4
				October	16	1	0.071	14
				November	15	2	0.227	9
				November	16	1	0.136	7
				March	17	2	0.343	6
				March	18	1	0.187	5
				April	17	1	0.508	2
					Total	**9**		**47**
10/26/75	A-2	Pahsimeroi Hatchery	26,031	October	1	1	0.376	3
				October	15	3	0.244	12
				November	10	1	0.136	7
				November	14	1	0.203	5

Appendix C. Continued.

2006-2007 Season[a], continued.

Tag Code	Stock and Ocean-age	Release Site	No. Fish Released	Recovery Month	River Section (Total)	No. Tags	Sample Rate	Estimated Harvest
10/26/75	A-2	Pahsimeroi Hatchery, continued.		March	15	2	0.417	5
				March	16	1	0.375	3
				March	17	6	0.343	17
					Total	**15**		**52**
10/35/75	B-2	Little Salmon River	66,580	November	1	1	0.119	8
				February	11	1	0.080	13
				February	12	1	0.228	4
				March	12	2	0.504	4
				March	20	3	0.149	20
				April	20	2	0.100	20
					Total	**10**		**69**
10/50/76	A-1	Lemhi River at St. Charles bridge	26,612	October	1	1	0.376	3
				October	12	1	0.226	4
				October	15	4	0.244	16
				November	12	3	0.305	10
				November	14	2	0.203	10
				November	15	4	0.227	18
				November	16	1	0.136	7
				March	15	2	0.417	5
				March	16	5	0.375	13
					Total	**23**		**86**
10/51/76	A-1	Pahsimeroi Hatchery	26,522	September	1	1	0.032	31
				October	1	1	0.376	3
				October	14	1	0.135	7
				October	15	5	0.244	20
				November	1	1	0.119	8
				November	12	2	0.305	7
				November	14	2	0.203	10
				November	15	4	0.227	18
				November	17	2	0.160	13
				February	12	1	0.228	4
				March	15	4	0.417	10
				March	17	8	0.343	23
				April	17	4	0.508	8
					Total	**36**		**162**
10/52/76	A-1	Salmon River at McNabb Point	27,980	October	1	2	0.376	5
				October	14	2	0.135	15
				October	15	2	0.244	8
				October	16	1	0.071	14
				November	12	1	0.305	3
				November	14	2	0.203	10
				November	15	4	0.227	18
				November	17	1	0.160	6
				February	12	1	0.228	4
				February	16	1	0.120	8
				February	17	1	0.103	10
				March	14	1	0.350	3
				March	15	1	0.417	2
				March	17	1	0.343	3
				March	18	1	0.187	5
				April	17	4	0.508	8

Appendix C. Continued.

2006-2007 Season[a], continued.

Tag Code	Stock and Ocean-age	Release Site	No. Fish Released	Recovery Month	River Section (Total)	No. Tags	Sample Rate	Estimated Harvest
10/52/76	A-1	Salmon River at McNabb Point, continued.		April	18	2	0.595	3
					Total	**28**		**125**
10/53/76	A-1	Yankee Fork Salmon River Dredge Ponds	26,451	October	14	1	0.135	7
				October	15	5	0.244	20
				October	16	4	0.071	56
				November	15	5	0.227	22
				November	16	1	0.136	7
				February	18	1	0.105	10
				March	14	1	0.350	3
				March	16	1	0.375	3
				March	17	1	0.343	3
				March	18	2	0.187	11
				March	19	6	0.194	31
					Total	**28**		**173**
10/54/76	A-1	Salmon River at Colston Corner	28,695	October	1	1	0.376	3
				October	13	1	0.241	4
				October	14	1	0.135	7
				October	15	3	0.244	12
				October	16	1	0.071	14
				November	11	2	0.101	20
				November	12	2	0.305	7
				November	14	1	0.203	5
				November	15	3	0.227	13
				January	10	1	0.056	18
				February	11	1	0.080	13
				February	13	1	0.188	5
				March	17	4	0.343	12
				March	18	1	0.187	5
				March	19	1	0.194	5
				April	17	3	0.508	6
					Total	**27**		**149**
10/55/76	A-1	Salmon River at Red Rock	25,860	October	1	1	0.376	3
				October	11	2	0.055	36
				October	14	3	0.135	22
				October	15	5	0.244	20
				November	11	2	0.101	20
				November	12	2	0.305	7
				November	14	3	0.203	15
				November	15	2	0.227	9
				December	11	1	0.104	10
				February	12	2	0.228	9
				March	12	1	0.504	2
				March	15	2	0.417	5
				March	16	2	0.375	5
					Total	**28**		**163**
10/68/73	A-2	Lemhi River at St. Charles bridge	28,235	October	15	3	0.244	12
				November	14	1	0.203	5
				November	15	4	0.227	18
				March	14	1	0.350	3
					Total	**9**		**38**

Appendix C. Continued.

2006-2007 Season[a], continued.

Tag Code	Stock and Ocean-age	Release Site	No. Fish Released	Recovery Month	River Section (Total)	No. Tags	Sample Rate	Estimated Harvest
10/78/73	B-1	Squaw Creek Ponds[c]	34,385	October	12	1	0.226	4
				October	15	2	0.244	8
				November	11	2	0.101	20
				November	12	2	0.305	7
				March	15	2	0.417	5
				April	19	1	0.108	9
					Total	**10**		**53**
10/84/76	B-1	Little Salmon River at Stinky Springs	57,269	March	20	1	0.149	7
					Total	**1**		**7**
10/85/76	B-1	Squaw Creek Ponds[c]	50,110	November	1	1	0.119	8
				November	12	1	0.305	3
				January	10	1	0.056	18
				February	3	1	0.119	8
				March	14	1	0.350	3
					Total	**5**		**40**
Magic Valley Fish Hatchery Total		**23 Marked Groups**				**293**		**1,439**

Clearwater Fish Hatchery

10/37/75	B-2	Crooked River	65,120	November	3	3	0.148	20
				November	4	2	0.187	11
				December	3	7	0.120	58
				December	4	1	0.131	8
				January	3	9	0.209	43
				February	3	1	0.119	8
				February	4	5	0.241	21
				February	7	5	0.119	42
				March	4	1	0.205	5
				March	7	11	0.230	48
				April	7	6	0.167	36
					Total	**51**		**300**
10/38/75	B-2	South Fork Clearwater River at Red House Hole	66,097	September	3	1	0.066	15
				November	1	1	0.119	8
				November	3	12	0.148	81
				November	4	5	0.187	27
				December	3	11	0.120	92
				December	4	1	0.131	8
				January	3	22	0.209	105
				January	5	2	0.146	14
				February	3	1	0.119	8
				February	4	14	0.241	58
				February	7	7	0.119	59
				March	4	3	0.205	15
				March	7	29	0.230	126
				April	7	3	0.167	18
					Total	**112**		**634**

Appendix C. Continued.

2006-2007 Season[a], continued.

Tag Code	Stock and Ocean-age	Release Site	No. Fish Released	Recovery Month	River Section (Total)	No. Tags	Sample Rate	Estimated Harvest
10/82/76	B-1	South Fork Clearwater River at Red House Hole	61,749	October	3	3	0.031	97
				October	4	2	0.019	105
				November	1	1	0.119	8
				November	4	3	0.187	16
				December	3	2	0.120	17
				January	3	1	0.209	5
				February	4	4	0.241	17
				February	7	1	0.119	8
				March	4	1	0.205	5
				March	7	2	0.230	9
					Total	**20**		**287**
10/83/76	58431	Crooked River trap	58,431	November	3	5	0.148	34
				November	4	3	0.187	16
				January	3	2	0.209	10
				February	3	2	0.119	17
				February	4	3	0.241	12
				February	7	1	0.119	8
				March	7	2	0.230	9
				April	7	1	0.167	6
					Total	**19**		**112**
Clearwater Fish Hatchery Total		**4 Marked Groups**				**202**		**1,333**
Grand Total		**35 Marked Groups**				**638**		**3,555**

[a] Includes creel survey data collected by Joseph Bumgarten, Washington Department of Fish and Wildlife.
[b] More fish checked in creel survey than estimated caught in State-wide Harvest.
[c] Site listed as "Squaw Creek Ponds" in Regional Mark Information System, Chris Harrington's 2005 releases file and Nampa's adult return coded wire tag file.

Appendix D. Summary of harvest estimates and hatchery returns of steelhead produced by Lower Snake River Compensation Plan hatchery facilities, fall 2004 through spring 2007.

Release Year	Stock and Ocean Age	Release Site	Stock Name[a]	Marking Purpose	Coded Wire Tags (CWT)	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 2004–Spring 2005 Season												
HAGERMAN NATIONAL FISH HATCHERY RELEASES												
2003	A-1	Sawtooth Hatchery	SFH	Production	CWT 10/79/70	17,361			20	20	40	0.50
					CWT 10/80/70	17,239			86	16	102	0.84
					None		713,301		2,206	1,279	3,485	0.63
		Subtotals				**34,600**	**713,301**					
					No. Released		**747,901**	**0.05**	**2,312**	**1,315**	**3,627**	**0.64**
					2 Mark Groups; 2 Mark Groups Recovered in Fishery							
2002	A-2	Sawtooth Hatchery	SFH	Production	CWT 10/07/72	43,087			49	7	56	0.88
					None		738,050		822	172	994	0.83
		Subtotals				**43,087**	**738,050**					
					No. Released		**781,137**	**0.06**	**871**	**179**	**1,050**	**0.83**
					1 Mark Group; 1 Mark Group Recovered in Fishery							
	Sawtooth Hatchery Subtotals					**77,687**	**1,451,351**					
					No. Released		**1,529,038**	**0.05**	**3,183**	**1,494**	**4,677**	**0.68**
					3 Mark Groups; 3 Mark Groups Recovered in Fishery							
2003	A-1	Yankee Fork Salmon River dredge ponds	SFH	Sho-Ban Agreement	None[c]		131,659		No Estimates Made			--
		Subtotals				**0**	**131,659**					
					No. Released		**131,659**	--	**--**	**--**	**--**	**--**
					0 Mark Groups							
2002	A-2	Yankee Fork Salmon River dredge ponds	SFH	Supplementation	None[c]		139,445		No Estimates Made			--
		Subtotals				**0**	**139,445**					
					No. Released		**139,445**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
	Yankee Fork Salmon River Dredge Pond Subtotals					**0**	**271,104**					
					No. Released		**271,104**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
2002	A-2	Little Salmon River at Highway 95 Bridge	PFH	Production	None[c]		218,124		No Estimates Made			--
	Little Salmon River at Highway 95 Bridge Subtotals					**0**	**218,124**					
					No. Released		**218,124**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							

Appendix D. Continued.

Fall 2004–Spring 2005 Season, continued.

Release Year	Stock and Ocean Age	Release Site	Stock Name[a]	Marking Purpose	Coded Wire Tags (CWT)	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
2003	A-1	Little Salmon River at Stinky Springs	PFH	Nez Perce Tribe Agreement	None[c]		160,176		No Estimates Made			--
	Little Salmon River Subtotals					**0**	**160,176**					
					No. Released		**160,176**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
2003	A-1	Hazard Creek	PFH	Nez Perce Tribe Agreement	None[c]		35,549		No Estimates Made			--
	Hazard Creek Subtotals					**0**	**35,549**					
					No. Released		**35,549**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
2003	B-1	Newsome Creek	DNFH	Nez Perce Tribe Agreement	None[c]		88,093		No Estimates Made			--
		Subtotals				**0**	**88,093**					
					No. Released		**88,093**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
2002	B-2	Newsome Creek	DNFH	Nez Perce Tribe Agreement	None[c]		85,722		No Estimates Made			
		Subtotals				**0**	**85,722**					
					No. Released		**85,722**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
	Newsome Creek Subtotals					**0**	**173,815**					
					No. Released		**173,815**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
2002	B-2	American River	DNFH	Nez Perce Tribe Agreement	None[c]		94,232		No Estimates Made			--
	American River Subtotals					**0**	**94,232**	**--**	**--**	**--**	**--**	**--**
					No. Released		**94,232**					
					0 Mark Groups							
Releases from Hagaman National Fish Hatchery												
		("A" Stock Releases				**77,687**	**1,451,351**					
		(with adipose fin clips)			**No. Released**		**1,529,038**	**0.05**	**3,183**	**1,494**	**4,677**	**0.68**
					3 Mark Groups; 3 Mark Groups Recovered in Fishery							
		Releases without Adipose Fin Clips				**0**	**953,000**					
		(Both "A" and "B" Stock Released)			**No. Released**		**953,000**	**--**	**--**	**--**	**--**	--
					0 Mark Groups							

Appendix D. Continued.

Fall 2004–Spring 2005 Season, continued.

Release Year	Stock and Ocean Age	Release Site	Stock Name[a]	Marking Purpose	Coded Wire Tags (CWT)	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
MAGIC VALLEY FISH HATCHERY RELEASES												
2003	A-1	Valley Creek (upper Salmon River)	SFH	Supplementation	None[c]		32,655		No Estimates Made			--
	Valley Creek (upper Salmon River) Subtotals					**0**	**32,655**					
					No. Released		**32,655**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
2002	A-2	Yankee Fork Salmon River dredge ponds	SFH	Production	None		99,738		111	23	134	0.83
	Yankee Fork Salmon River Dredge Ponds Subtotals					**0**	**99,738**					
					No. Released		**99,738**	**0**	**111**	**23**	**134**	**0.83**
					0 Mark Groups							
2003	A-1	West Fork Yankee Fork Salmon River	SFH	Supplementation	CWT 10/62/73	33,631			219	59	278	0.79
					None		105,693		688	186	874	0.79
					None[c]		27,469		No Estimates Made			--
	West Fork Yankee Fork Salmon River Subtotals					**33,631**	**133,162**					
					No. Released		**166,793**	**0.24[d]**	**907**	**245**	**1,152**	**0.79**
					1 Mark Group; 1 Mark Group Recovered in Fishery							
2003	B-1	Squaw Creek ponds	EF	Squaw Creek Pond	CWT 10/57/73	29,522			40	13	53	0.75
				Upper Salmon B	CWT 10/58/73	26,874			26	6	32	0.81
					None		1,744		2	1	3	0.67
			DNFH	Squaw Pond Dwor B	CWT 10/98/72	61,042			15	1	16	0.94
					None		1,888		0	0	0	--
		Subtotals				**117,438**	**3,632**					
					No. Released		**121,070**	**0.97**	**83**	**21**	**104**	**0.80**
					3 Mark Groups; 3 Mark Groups Recovered in Fishery							
2002	B-2	Squaw Creek ponds	DNFH	Production	None		96,440		210	29	239	0.88
		Subtotals				**0**	**96,440**					
					No. Released		**96,440**	**0**	**210**	**29**	**239**	**0.88**
					0 Mark Groups							
	Squaw Creek Ponds Subtotals					**117,438**	**100,072**					
					No. Released		**217,510**	**0.54**	**293**	**50**	**343**	**0.85**
					3 Mark Groups; 3 Mark Groups Recovered in Fishery							
2003	B-1	Squaw Creek (upper Salmon River)	DNFH	Squaw Creek	CWT 10/97/72	68,744			14	0	14	1.00
					None		133,335		27	0	27	1.00
		Subtotals				**68,744**	**133,335**					
					No. Released		**202,079**	**0.34**	**41**	**0**	**41**	**1.00**
					1 Mark Group; 1 Mark Group Recovered in Fishery							

Appendix D. Continued.

Fall 2004–Spring 2005 Season, continued.

Release Year	Stock and Ocean Age	Release Site	Stock Name[a]	Marking Purpose	Tags (CWT)	No. of Fish Released Tagged	No. of Fish Released Untagged	Mark Rate	Harvest	Hatchery Returns[b]	Total	Exploitation Rate
2002	B-2	Squaw Creek (upper Salmon River)	DNFH	Production/ Squaw Creek	CWT 10/93/71	31,518			61	0	61	1.00
					None		198,660		384	0	384	1.00
			EF	Production/ Squaw Creek	CWT 10/66/70	20,439			45	6	51	0.88
					CWT 10/10/72	9,893			21	3	24	0.88
					None		29,024		63	9	72	0.88
		Subtotals				**61,850**	**227,684**					
					No. Released		**289,534**	**0.21**	**574**	**18**	**592**	**0.97**
					3 Mark Groups; 3 Mark Groups Recovered in Fishery							
	Squaw Creek Subtotals					**130,594**	**361,019**					
					No. Released		**491,613**	**0.27**	**615**	**18**	**633**	**0.97**
					4 Mark Groups; 4 Mark Groups Recovered in Fishery							
2003	B-1	East Fork Salmon River at dumpster	DNFH	Production	None		215,666		44	3	47	0.94
		Subtotals				**0**	**215,666**					
					No. Released		**215,666**	**0**	**44**	**3**	**47**	**0.94**
					0 Mark Groups							
2002	B-2	East Fork Salmon River at dumpster	DNFH	Production	None		214,252		466	64	530	0.88
		Subtotals				**0**	**214,252**					
					No. Released		**214,252**	**0**	**466**	**64**	**530**	**0.88**
					0 Mark Groups							
	East Fork Salmon River at Dumpster Subtotals					**0**	**429,918**					
					No. Released		**429,918**	**0**	**510**	**67**	**577**	**0.88**
					0 Mark Groups							
2003	B-1	East Fork Salmon River trap	EF	East Fork naturals Program	None[c]		27,707		No Estimates Made			--
		Subtotals				**0**	**27,707**					
					No. Released		**27,707**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
2002	B-2	East Fork Salmon River trap	EF	East Fork Natural Program	None[c]		3,800		No Estimates Made			
		Subtotals				**0**	**3,800**					
					No. Released		**3,800**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
	East Fork Salmon River Trap Subtotals					**0**	**31,507**					
					No. Released		**31,507**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							

Appendix D. Continued.

Fall 2004–Spring 2005 Season, continued.

Release Year	Stock and Ocean Age	Release Site	Stock Name[a]	Marking Purpose	Coded Wire Tags (CWT)	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
2003	A-1	Salmon River at Tunnel Rock	SFH	Production	None		67,522		300	529	829	0.36
					None		9,120		40	71	111	0.36
		Subtotals				**0**	**76,642**					
					No. Released		**76,642**	**0**	**340**	**600**	**940**	**0.36**
					0 Mark Groups							
2002	A-2	Salmon River at Tunnel Rock	SFH	Production	None		49,800		51	28	79	0.65
		Subtotals				**0**	**49,800**					
					No. Released		**49,800**	**0**	**51**	**28**	**79**	**0.65**
					0 Mark Groups							
	Salmon River at Tunnel Rock Subtotals					**0**	**126,442**					
					No. Released		**126,442**	**0**	**391**	**628**	**1,019**	**0.38**
					0 Mark Groups							
2002	A-2	Salmon River at Challis	SFH	Production	CWT 10/11/72	10,943			2	6	8	0.25
					CWT 10/67/70	21,504			31	12	43	0.72
					None		25,153		26	14	40	0.65
	Salmon River at Challis Subtotals					**32,447**	**25,153**					
					No. Released		**57,600**	**0.56**	**59**	**32**	**91**	**0.65**
					2 Mark Groups; 2 Mark Groups Recovered in Fishery							
2003	A-1	Salmon River at McNabb Point	PFH	Production	CWT 10/61/73	32,892			146	258	404	0.36
					None		60,212		267	472	739	0.36
		Subtotals				**32,892**	**60,212**					
					No. Released		**93,104**	**0.35**	**413**	**730**	**1,143**	**0.36**
					1 Mark Group; 1 Mark Group Recovered in Fishery							
2002	A-2	Salmon River at McNabb Point	SFH	Production	None		70,590		72	39	111	0.65
		Subtotals				**0**	**70,590**					
					No. Released		**70,590**	**0**	**72**	**39**	**111**	**0.65**
					0 Mark Groups							
	Salmon River at McNabb Point Subtotals					**32,892**	**130,802**					
					No. Released		**163,694**	**0.20**	**485**	**769**	**1,254**	**0.39**
					1 Mark Group; 1 Mark Group Recovered in Fishery							
2002	A-2	Salmon River at Cottonwood Campground	SFH	Production	None		62,048		63	34	97	0.65
	Salmon River at Cottonwood Campground Subtotals					**0**	**62,048**					
					No. Released		**62,048**	**0**	**63**	**34**	**97**	**0.65**
					0 Mark Groups							

Appendix D. Continued.

Fall 2004–Spring 2005 Season, continued.

Release Year	Stock and Ocean Age	Release Site	Stock Name[a]	Marking Purpose	Coded Wire Tags (CWT)	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
2003	A-1	Pahsimeroi River	PFH	Pahsimeroi Evaluation	CWT 10/60/73	32,846			131	51	182	0.72
					None		1,016		4	8	12	0.33
	Pahsimeroi River Subtotals					**32,846**	**1,016**					
					No. Released		**33,862**	**0.97**	**135**	**59**	**194**	**0.70**
					1 Mark Group; 1 Mark Group Recovered in Fishery							
2003	A-1	Salmon River at Colston Corner	PFH	Production	CWT 10/59/73	31,751			88	249	337	0.26
					None		129,269		358	1,013	1,371	0.26
		Subtotals				**31,751**	**129,269**					
					No. Released		**161,020**	**0.20**	**446**	**1,262**	**1,708**	**0.26**
					1 Mark Group; 1 Mark Group Recovered in Fishery							
2002	A-2	Salmon River at Colston Corner	PFH	Production	None		39,005		40	22	62	0.65
		Subtotals				**0**	**39,005**					
					No. Released		**39,005**	**0**	**40**	**22**	**62**	**0.65**
					0 Mark Groups							
	Salmon River at Colston Corner Subtotals					**31,751**	**168,274**					
					No. Released		**200,025**	**0.16**	**486**	**1,284**	**1,770**	**0.27**
					1 Mark Group; 1 Mark Group Recovered in Fishery							
2002	A-2	Salmon River at Eyehole	SFH	Production	None		41,350		42	23	65	0.65
	Salmon River at Eyehole Subtotals					**0**	**41,350**					
					No. Released		**41,350**	**0**	**42**	**23**	**65**	**0.65**
					0 Mark Groups							
2002	A-2	Salmon River at Shoup Bridge	PFH	Production	None		63,000		210	35	245	0.86
	Salmon River at Shoup Bridge Subtotals					**0**	**63,000**					
					No. Released		**63,000**	**0**	**210**	**35**	**245**	**0.86**
					0 Mark Groups							
2003	A-1	Lemhi River at mouth	PFH	Production	None		70,848		303	555	858	0.35
		Subtotals				**0**	**70,848**					
					No. Released		**70,848**	**0**	**303**	**555**	**858**	**0.35**
					0 Mark Groups							
2002	A-2	Lemhi River at mouth	PFH	Production	None		84,608		281	47	328	0.86
		Subtotals				**0**	**84,608**					
					No. Released		**84,608**	**0**	**281**	**47**	**328**	**0.86**
					0 Mark Groups							
	Lemhi River at Mouth Subtotals					**0**	**155,456**					

Appendix D. Continued.

Fall 2004–Spring 2005 Season, continued.

Release Year	Stock and Ocean Age	Release Site	Stock Name[a]	Marking Purpose	Coded Wire Tags (CWT)	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
					No. Released		**155,456**	**0**	**584**	**602**	**1,186**	**0.49**
					0 Mark Groups							
2002	A-2	Lemhi River at St. Charles Bridge	PFH	Supplementation	None[c]		108,295		No Estimates Made			--
			PFH	Production	CWT 10/68/70	21,328			93	12	105	0.89
					CWT 10/12/72	10,833			13	6	19	0.70
					None		83,062		276	46	322	0.86
	Lemhi River at St. Charles Bridge Subtotals					**32,161**	**191,357**					
					No. Released		**223,518**	**0.28[d]**	**382**	**64**	**446**	**0.86**
					2 Mark Groups; 2 Mark Groups Recovered in Fishery							
2003	A-1	Lemhi River at County scale	PFH	Production	CWT 10/64/73	31,583			135	247	382	0.35
					None		977		4	8	12	0.33
	Lemhi River at County Scale Subtotals					**31,583**	**977**					
					No. Released		**32,560**	**0.97**	**139**	**255**	**394**	**0.35**
					1 Mark Group; 1 Mark Group Recovered in Fishery							
2003	A-1	Lemhi River at Hayden Creek	PFH	Production	None[c]		83,157		No Estimates Made			--
	Lemhi River at Hayden Creek Subtotals					**0**	**83,157**					
					No. Released		**83,157**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
2002	A-2	Hayden Creek Hatchery	PFH	Production	None		37,500		125	21	146	0.86
	Hayden Creek Hatchery Subtotals					**0**	**37,500**					
					No. Released		**37,500**	**0**	**125**	**21**	**146**	**0.86**
					0 Mark Groups							
2003	A-1	Salmon River at Red Rock	PFH	Production	CWT 10/63/73	32,446			155	254	409	0.38
					None		99,895		477	783	1,260	0.38
		Subtotals				**32,446**	**99,895**					
					No. Released		**132,341**	**0.25**	**632**	**1,037**	**1,669**	**0.38**
					1 Mark Group; 1 Mark Group Recovered in Fishery							
2002	A-2	Salmon River at Red Rock	PFH	Production	None		34,085		113	19	132	0.86
			SFH	Production	None		7,353		24	4	28	0.86
		Subtotals				**0**	**41,438**					
					No. Released		**41,438**	**0**	**137**	**23**	**160**	**0.86**
					0 Mark Groups							
	Salmon River at Red Rock Subtotals					**32,446**	**141,333**					
					No. Released		**173,779**	**0.19**	**769**	**1,060**	**1,829**	**0.42**
					1 Mark Group; 1 Mark Group Recovered in Fishery							

Appendix D. Continued.

Fall 2004–Spring 2005 Season, continued.

Release Year	Stock and Ocean Age	Release Site	Stock Name[a]	Marking Purpose	Coded Wire Tags (CWT)	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
2002	A-2	Salmon River at Wagonhammer Spring	PFH	Production	None		49,194		164	27	191	0.86
	Salmon River at Wagonhammer Subtotals					**0**	**49,194**					
					No. Released		**49,194**	**0**	**164**	**27**	**191**	**0.86**
					0 Mark Groups							
2002	A-2	Salmon River at Lewis and Clark sign (North Fork)	PFH	Production	None		43,415		144	24	168	0.86
	Salmon River at Lewis and Clark Sign Subtotals					**0**	**43,415**					
					No. Released		**43,415**	**0**	**144**	**24**	**168**	**0.86**
					0 Mark Groups							
2002	A-2	Salmon River at Hammer Creek	PFH	Production	None		179,722		598	100	698	0.86
	Salmon River at Hammer Creek Subtotals					**0**	**179,722**					
					No. Released		**179,722**	**0**	**598**	**100**	**698**	**0.86**
					0 Mark Groups							
2003	A-1	Hammer Creek at Mouth	PFH	Production	None		183,634		865	1,439	2,304	0.38
	Hammer Creek at Mouth Subtotals					**0**	**183,634**					
					No. Released		**183,634**	**0.00**	**865**	**1,439**	**2,304**	**0.38**
					0 Mark Groups							
2002	A-2	Little Salmon River at Stinky Springs	PFH	Production	None		54,000		180	30	210	0.86
		Subtotals				**0**	**54,000**					
					No. Released		**54,000**	**0**	**180**	**30**	**210**	**0.86**
					0 Mark Groups							
2003	B-1	Little Salmon Rilver at Stinky Springs	DNFH	Production	CWT 10/99/72	65,097			0	1	1	0.00
					None		271,886		67	4	71	0.94
		Subtotals				**65,097**	**271,886**					
					No. Released		**336,983**	**0.19**	**67**	**5**	**72**	**0.93**
					1 Mark Group; 0 Mark Group Recovered in Fishery							
2002	B-2	Little Salmon River at Stinky Springs	DNFH	Production	None		105,167		216	31	247	0.87
		Subtotals				**0**	**105,167**					
					No. Released		**105,167**	**0**	**216**	**31**	**247**	**0.87**
					0 Mark Groups							
	Little Salmon River at Stinky Springs Subtotals					**65,097**	**431,053**					
					No. Released		**496,150**	**0.13**	**463**	**66**	**529**	**0.88**
					1 Mark Group; 0 Mark Group Recovered in Fishery							

Appendix D. Continued.

Fall 2004–Spring 2005 Season, continued.

Release Year	Stock and Ocean Age	Release Site	Stock Name[a]	Marking Purpose	Coded Wire Tags (CWT)	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
Releases from Magic Valley Fish Hatchery												
		"A" Stock Releases				**259,757**	**1,751,809**					
		(with adipose fin clips)			**No. Released**		**2,011,566**	**0.13**	**6,839**	**6,754**	**13,593**	**0.50**
					10 Mark Groups; 10 Mark Groups Recovered in Fishery							
		"B" Stock Releases				**313,129**	**1,268,062**					
		(with adipose fin clips)			**No. Released**		**1,581,191**	**0.20**	**1,701**	**171**	**1,872**	**0.91**
					8 Mark Groups; 7 Mark Groups Recovered in Fishery							
	Total Releases with Adipose Fin Clips					**572,886**	**3,019,871**					
					No. Released		**3,592,757**	**0.16**	**8,540**	**6,925**	**15,465**	**0.55**
					18 Mark Groups; 17 Mark Groups Recovered in Fishery							
	Releases without Adipose Fin Clips					**0**	**283,083**					
					No. Released		**283,083**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
CLEARWATER FISH HATCHERY RELEASES												
2002	B-2	Red River	DNFH	Production	None		31,306		26	43	69	**0.38**
				Supplementation	None[c]		150,010		No Estimates Made			--
	Red River Subtotals					**0**	**181,316**					
					No. Released		**181,316**	**0[d]**	**26**	**43**	**69**	**0.38**
					0 Mark Groups							
2003	B-1	Red River Rearing Ponds	DNFH	Production	None		100,000		30	2	32	0.94
				Supplementation	None[c]		149,987		No Estimates Made			--
	Red River Rearing Ponds Subtotals					**0**	**249,987**					
					No. Released		**249,987**	**0[d]**	**30**	**2**	**32**	**0.94**
					0 Mark Groups							
2002	B-2	North Fork Clearwater River at Ahsahka ramp	DNFH	Surplus Production	None		63,957		258	239	497	0.52
	North Fork Clearwater River at Ahsahka ramp Subtotals					**0**	**63,957**					
					No. Released		**63,957**	**0**	**258**	**239**	**497**	**0.52**
					0 Mark Groups							
2003	B-1	South Fork Clearwater River at Meadow Creek	DNFH	Nez Perce Tribe Agreement	None[c]		23,310		No Estimates Made			**--**
		Subtotals				**0**	**23,310**					
					No. Released		**23,310**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							

Appendix D. Continued.

Fall 2004–Spring 2005 Season, continued.

Release Year	Stock and Ocean Age	Release Site	Stock Name[a]	Marking Purpose	Coded Wire Tags (CWT)	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
2002	B-2	South Fork Clearwater River at Meadow Creek	DNFH	Nez Perce Tribe Supplementation	None[c]		26,460		No Estimates Made			--
		Subtotals				**0**	**26,460**					
					No. Released		**26,460**	--	--	--	--	--
					0 Mark Groups							
	South Fork Clearwater River at Meadow Creek Subtotals					**0**	**49,770**					
					No. Released		**49,770**	--	--	--	--	--
					0 Mark Groups							
2003	B-1	South Fork Clearwater River at Mill Creek	DNFH	Nez Perce Tribe Agreement	None[c]		**33,362**		No Estimates Made			--
		Subtotals				**0**	**33,362**					
					No. Released		**33,362**	--	--	--	--	--
					0 Mark Groups							
2002	B-2	South Fork Clearwater River at Mill Creek	DNFH	Nez Perce Tribe Supplementation	None[c]		34,000		No Estimates Made			--
		Subtotals				**0**	**34,000**					
					No. Released		**34,000**	--	--	--	--	--
					0 Mark Groups							
	South Fork Clearwater River at Mill Creek Subtotals					**0**	**67,362**					
					No. Released		**67,362**	--	--	--	--	--
					0 Mark Groups							
2003	B-1	South Fork Clearwater River at Red House Hole	DNFH	Production	CWT 10/95/72	62,806			40	17	57	0.70
					None		86,861		55	23	78	0.71
				Surplus presmolt release	None		22,599		14	6	20	0.70
		Subtotals				**62,806**	**109,460**					
					No. Released		**172,266**	**0.36**	**109**	**46**	**155**	**0.70**
					1 Mark Group; 1 Mark Group Recovered in Fishery							
2002	B-2	South Fork Clearwater River at Red House Hole	DNFH	Production	CWT 10/48/10	21,104			83	29	112	0.74
					CWT 10/48/11	22,327			134	31	165	0.81
					CWT 10/48/12	22,629			71	31	102	0.70
					None		72,709		317	100	417	0.76
		Subtotals				**66,060**	**72,709**					
					No. Released		**138,769**	**0.48**	**605**	**191**	**796**	**0.76**
					3 Mark Groups; 3 Mark Groups Recovered in Fishery							
	South Fork Clearwater River at Red House Hole Subtotals					**128,866**	**182,169**					
					No. Released		**311,035**	**0.41**	**714**	**237**	**951**	**0.75**
					4 Mark Groups; 4 Mark Groups Recovered in Fishery							

Appendix D. Continued.

Fall 2004–Spring 2005 Season, continued.

Release Year	Stock and Ocean Age	Release Site	Stock Name[a]	Marking Purpose	Coded Wire Tags (CWT)	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
2003	B-1	Clear Creek tributary to Clearwater River	DNFH	Production	None		108,052		72	29	101	0.71
		Subtotals				**0**	**108,052**					
					No. Released		**108,052**	**0**	**72**	**29**	**101**	**0.71**
					0 Mark Groups							
2002	B-2	Clear Creek	DNFH	Production	None		40,499		177	56	233	0.76
		Subtotals				**0**	**40,499**					
					No. Released		**40,499**	**0**	**177**	**56**	**233**	**0.76**
					0 Mark Groups							
	Clear Creek Subtotals					**0**	**148,551**					
					No. Released		**148,551**	**0**	**249**	**85**	**334**	**0.75**
					0 Mark Groups							
2003	B-1	Crooked River Ponds	DNFH	Production	CWT 10/96/72	62,848			19	0	19	1.00
					None		99,776		30	2	32	0.94
				Supplementation	CWT 10/89/70[c]	20,722			No Estimates Made			--
					None[c]		81,212		No Estimates Made			--
		Subtotals				**83,570**	**180,988**					
					No. Released		**264,558**	**0.39[d]**	**49**	**2**	**51**	**0.96**
					2 Mark Groups; 1 Mark Groups Recovered in Fishery							
2002	B-2	Crooked River Ponds	DNFH	Production	CWT 10/63/70	12,573			13	1	14	0.93
					CWT 10/65/70	9,403			5	0	5	1.00
					None		11,914		10	8	18	0.56
				Supplementation	BWT 10/00/00[c,e]	58,558			No Estimates Made			--
					None[c]		82,219		No Estimates Made			--
		Subtotals				**80,534**	**94,133**	**0.65[d]**	**28**	**9**	**37**	**0.76**
					No. Released		**174,667**					
					3 Mark Groups; 2 Mark Groups Recovered in Fishery							
	Crooked River Ponds Subtotals					**164,104**	**275,121**					
					No. Released		**439,225**	**0.43[d]**	**77**	**11**	**88**	**0.88**
					5 Mark Groups; 3 Mark Group Recovered in Fishery							
2003	B-1	Lolo Creek	DNFH	Nez Perce Tribe Agreement	None[c]		43,070		No Estimates Made			--
		Subtotals				**0**	**43,070**					
					No. Released		**43,070**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
2002	B-2	Lolo Creek	DNFH	Nez Perce Tribe Supplementation	None[c]		18,000		No Estimates Made			

Appendix D. Continued.

Fall 2004–Spring 2005 Season, continued.

Release Year	Stock and Ocean Age	Release Site	Stock Name[a]	Marking Purpose	Coded Wire Tags (CWT)	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
		Subtotals				**0**	**18,000**					
					No. Released		**18,000**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
	Lolo Creek Subtotals					**0**	**61,070**					
					No. Released		**61,070**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
Releases from Clearwater Fish Hatchery												
		"B" Stock Releases (with adipose fin clips)				**213,690**	**637,673**					
					No. Released		**851,363**	**0.25**	**1,354**	**617**	**1,971**	**0.69**
					7 Mark Groups; 7 Mark Groups Recovered in Fishery							
		Releases without Adipose Fin Clips				**79,280**	**641,630**					
					No. Released		**720,910**	**0.11**	**--**	**--**	**--**	**--**
					2 Mark Groups; 0 Mark Groups Recovered in Fishery							
Total Returns for Run Year 2004-2005												
		Releases with Adipose Fin Clips				**864,263**	**5,108,895**					
					No. Released		**5,973,158**	**0.14**	**13,077**	**9,036**	**22,113**	**0.59**
					28 Mark Groups; 27 Mark Groups Recovered in Fishery							
		Releases without Adipose Fin Clips				**79,280**	**1,877,713**					
					No. Released		**1,956,993**	**0.04**	**--**	**--**	**--**	**--**
					2 Mark Groups; 0 Mark Groups Recovered in Fishery							

Appendix D. Continued.

Fall 2005–Spring 2006 Season

Release Year	Stock and Ocean Age	Release Site	Stock Name[a]	Marking Purpose	Coded Wire Tags (CWT)	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
HAGERMAN NATIONAL FISH HATCHERY RELEASES												
2004	A-1	Sawtooth Hatchery	SFHb	Production	CWT 10/85/70	21,610			50	47	97	0.52
					CWT 10/86/70	21,013			46	32	78	0.59
					CWT 10/87/70	21,592			64	28	92	0.70
					CWT 10/88/70	21,441			39	36	75	0.52
					None		671,064		1,559	1,326	2,885	0.54
		Subtotals				**85,656**	**671,064**					
					No. Released		**756,720**	**0.11**	**1,758**	**1,469**	**3,227**	**0.54**
					4 Mark Groups; 4 Mark Groups Recovered in Fishery							
2003	A-2	Sawtooth Hatchery	SFH	Production	CWT 10/79/70	17,361			33	25	58	0.57
					CWT 10/80/70	17,239			51	10	61	0.84
					None		713,301		1,732	416	2,148	0.81
		Subtotals				**34,600**	**713,301**					
					No. Released		**747,901**	**0.05**	**1,816**	**451**	**2,267**	**0.80**
					2 Mark Groups; 2 Mark Groups Recovered in Fishery							
	Sawtooth Hatchery Subtotals					**120,256**	**1,384,365**					
					No. Released		**1,504,621**	**0.08**	**3,574**	**1,920**	**5,494**	**0.65**
					6 Mark Groups; 6 Mark Groups Recovered in Fishery							
2004	A-1	Yankee Fork Salmon River dredge ponds	SFH	Sho-Ban Agreement	None[c]		**138,664**		No Estimates Made			--
		Subtotals				**0**	**138,664**					
					No. Released		**138,664**	--	**--**	**--**	**--**	**--**
					0 Mark Groups							
2003	A-2	Yankee Fork Salmon River dredge ponds	SFH	Sho-Ban Agreement	None[c]		131,659		No Estimates Made			--
		Subtotals				**0**	**131,659**					
					No. Released		**131,659**	--	**--**	**--**	**--**	**--**
					0 Mark Groups							
	Yankee Fork Salmon River dredge pond Subtotals					**0**	**270,323**					
					No. Released		**270,323**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
2004	B-1	East Fork Salmon River at Dumpster	DNFH	Production	None		96,073		35	0	35	1.00
	East Fork Salmon River at Dumpster Subtotals					**0**	**96,073**					
							96,073	**0**	**35**	**0**	**35**	**1.00**
					0 Mark Groups							

Appendix D. Continued.

Fall 2005–Spring 2006 Season, continued.

Release Year	Stock and Ocean Age	Release Site	Stock Name[a]	Marking Purpose	Coded Wire Tags (CWT)	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
2004	A-1	Lemhi River	SFH	Production	None		13,330		95	94	189	0.50
	Lemhi River Subtotals					**0**	**13,330**					
					No. Released		**13,330**	**0**	**95**	**94**	**189**	**0.50**
					0 Mark Groups							
2004	A-1	Little Salmon River at Stinky Springs	SFH	--	None[c]		177,094		No Estimates Made			--
		Subtotals				**0**	**177,094**					
					No. Released		**177,094**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
2003	A-2	Little Salmon River at Stinky Springs	PFH	Nez Perce Tribe Agreement	None[c]		160,176		No Estimates Made			--
		Subtotals				**0**	**160,176**					
					No. Released		**160,176**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
2004	B-1	Little Salmon River at Stinky Springs	SFH	--	None		100,494		168	0	168	1.00
		Subtotals				**0**	**100,494**					
					No. Released		**100,494**	**0**	**168**	**0**	**168**	**1.00**
					0 Mark Groups							
	Little Salmon River at Stinky Springs Subtotals					**0**	**437,764**					
					No. Released		**437,764**	**0[d]**	**168**	**0**	**168**	**1.00**
					0 Mark Groups							
2004	A-1	Hazard Creek	PFH	--	None[c]		42,001		No Estimates Made			--
		Subtotals				**0**	**42,001**					
					No. Released		**42,001**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
2003	A-2	Hazard Creek	PFH	Nez Perce Tribe Agreement	None[c]		35,549		No Estimates Made			--
		Subtotals				**0**	**35,549**					
					No. Released		**35,549**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
	Hazard Creek Subtotals					**0**	**77,550**					
					No. Released		**77,550**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							

Appendix D. Continued.

Fall 2005–Spring 2006 Season, continued.

Release Year	Stock and Ocean Age	Release Site	Stock Name[a]	Marking Purpose	Coded Wire Tags (CWT)	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
2004	A-1	Newsome Creek	PFH	--	None[c]		65,080		No Estimates Made			--
		Subtotals				**0**	**65,080**					
					No. Released		**65,080**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
2003	B-2	Newsome Creek	DNFH	Nez Perce Tribe Agreement	None[c]		88,093		No Estimates Made			--
		Subtotals				**0**	**88,093**					
					No. Released		**88,093**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
	Newsome Creek Subtotals					**0**	**153,173**					
					No. Released		**153,173**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
2004	A-1	American River	PFH	--	None[c]		74,620		No Estimates Made			--
	American River Subtotals					**0**	**74,620**	**--**	**--**	**--**	**--**	**--**
					No. Released		**74,620**					
					0 Mark Groups							
Releases from Hagerman National Fish Hatchery												
		"A" Stock Releases				**120,256**	**1,397,695**					
		(with adipose fin clips)			**No. Released**		**1,517,951**	**0.08**	**3,669**	**2,014**	**5,683**	**0.65**
					6 Mark Groups; 6 Mark Groups Recovered in Fishery							
		"B" Stock Releases				**0**	**196,567**					
		(with adipose fin clips)			**No. Released**		**196,567**	**0**	**203**	**0**	**203**	**1.00**
					0 Mark Groups							
	Total Releases with Adipose Fin Clips					120,256	1,594,262					
					No. Released		1,714,518	0.07	3,872	2,014	5,886	0.66
					6 Mark Groups; 6 Mark Groups Recovered in Fishery							
		Releases without Adipose Fin Clips				**0**	**912,936**					
		(Both "A" and "B" Stock Released)			**No. Released**		**912,936**	**--**	**--**	**--**	**--**	--
					0 Mark Groups							

Appendix D. Continued.

Fall 2005–Spring 2006 Season, continued.

Release Year	Stock and Ocean Age	Release Site	Stock Name[a]	Marking Purpose	Coded Wire Tags (CWT)	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
MAGIC VALLEY FISH HATCHERY RELEASES												
2004	A-1	Valley Creek (upper Salmon River)	SFH	Production	None[c]		24,156		No Estimates Made			--
		Subtotals				**0**	**24,156**					
					No. Released		**24,156**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
2003	A-2	Valley Creek (upper Salmon River)	SFH	Supplementation	None[c]		32,655		No Estimates Made			--
		Subtotals				**0**	**32,655**					
					No. Released		**32,655**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
	Valley Creek (upper Salmon River) Subtotals											
					No. Released			**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
2004	A-1	Yankee Fork Salmon River at Third Bridge up	SFH	Production	CWT 10/24/75	32,809			16	65	81	0.20
					None		6,015		3	12	15	0.20
				Sho-Ban Agreement	None[c]		25,800		No Estimates Made			--
		Subtotals				**32,809**	**31,815**					
					No. Released		**64,624**	**0.85[d]**	**19**	**77**	**96**	**0.20**
					1 Mark Group; 1 Mark Group Recovered in Fishery							
2004	B-1	Yankee Fork Salmon River at Third Bridge up	DNFH	Production	None		123,258		45	4	49	0.92
		Subtotals				**0**	**123,258**					
					No. Released		**123,258**	**0**	**45**	**4**	**49**	**0.92**
					0 Mark Groups							
	Yankee Fork Salmon River at Third Bridge Up Subtotals					**32,809**	**155,073**					
					No. Released		**187,882**	**0.20[d]**	**64**	**81**	**145**	**0.44**
					1 Mark Group; 1 Mark Group Recovered in Fishery							
2003	A-2	West Fork Yankee Fork Salmon River	SFH	Supplementation	CWT 10/62/73	33,631			74	20	94	0.79
					None		105,693		233	62	295	0.79
					None[c]		27,469		No Estimates Made			--
	West Fork Yankee Fork Salmon River Subtotals					**33,631**	**133,162**					
					No. Released		**166,793**	**0.24[d]**	**307**	**82**	**389**	**0.79**
					1 Mark Group; 1 Mark Group Recovered in Fishery							

Appendix D. Continued.

Fall 2005–Spring 2006 Season, continued.

Release Year	Stock and Ocean Age	Release Site	Stock Name[a]	Marking Purpose	Coded Wire Tags (CWT)	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
2004	B-1	Squaw Creek ponds	DNFH	DNFH	CWT 10/22/75	31,761			17	0	17	1.00
					CWT 10/23/75	31,134			6	0	6	1.00
					None		1,945		1	0	1	1.00
			EFf	Upper Salmon	CWT 10/01/71	20,353			4	0	4	1.00
					CWT 10/02/71	18,298			6	1	7	0.86
					CWT 10/03/71	17,974			18	1	19	0.95
					None		1,752		1	0	1	1.00
		Subtotals				**119,520**	**3,697**					
					No. Released		**123,217**	**0.97**	**53**	**2**	**55**	**0.96**
					5 Mark Groups; 5 Mark Groups Recovered in Fishery							
2003	B-2	Squaw Creek ponds	EF	Squaw Creek Pond	CWT 10/57/73	29,522			171	27	198	0.86
				Upper Salmon B	CWT 10/58/73	26,874			98	17	115	0.85
					None		1,744		8	1	9	0.89
			DNFH	Squaw Pond Dwor B	CWT 10/98/72	61,042			146	5	151	0.97
					None		1,888		5	0	5	1.00
		Subtotals				**117,438**	**3,632**					
					No. Released		**121,070**	**0.97**	**428**	**50**	**478**	**0.90**
					3 Mark Groups; 3 Mark Groups Recovered in Fishery							
	Squaw Creek Ponds Subtotals					**236,958**	**7,329**					
					No. Released		**244,287**	**0.97**	**481**	**52**	**533**	**0.90**
					8 Mark Groups; 8 Mark Groups Recovered in Fishery							
2004	B-1	Squaw Creek (upper Salmon River)	DNFH	Squaw Creek Release	None		149,588		55	0	55	1.00
				RV Evaluation	None		29,948		11	0	11	1.00
				Production	None		19,200		7	0	7	1.00
		Subtotals				**0**	**198,736**					
					No. Released		**198,736**	**0**	**73**	**0**	**73**	**1.00**
					0 Mark Groups							
2003	B-2	Squaw Creek (upper Salmon River)	DNFH	Squaw Creek	CWT 10/97/72	68,744			179	9	188	0.95
					None		133,335		347	17	364	0.95
		Subtotals				**68,744**	**133,335**					
					No. Released		**202,079**	**0.34**	**526**	**26**	**552**	**0.95**
					1 Mark Group; 1 Mark Group Recovered in Fishery							
	Squaw Creek Subtotals					**68,744**	**332,071**					
					No. Released		**400,815**	**0.17**	**599**	**26**	**625**	**0.96**
					1 Mark Group; 1 Mark Group Recovered in Fishery							

Appendix D. Continued.

Fall 2005–Spring 2006 Season, continued.

Release Year	Stock and Ocean Age	Release Site	Stock Name[a]	Marking Purpose	Coded Wire Tags (CWT)	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
2004	B-1	East Fork Salmon River at dumpster	DNFH	Production	None		196,402		72	0	72	1.00
		Subtotals				**0**	**196,402**					
					No. Released		**196,402**	**0**	**72**	**0**	**72**	**1.00**
					0 Mark Groups							
2003	B-2	East Fork Salmon River at dumpster	DNFH	Production	None		215,666		562	28	590	0.95
		Subtotals				**0**	**215,666**					
					No. Released		**215,666**	**0**	**562**	**28**	**590**	**0.95**
					0 Mark Groups							
	East Fork Salmon River at Dumpster Subtotals					**0**	**412,068**					
					No. Released		**412,068**	**0**	**634**	**28**	**662**	**0.96**
					0 Mark Groups							
2004	B-1	East Fork Salmon River trap	DNFH	Production	BWT 10/00/00[c,e]	11,315			No Estimates Made			--
			EF	Production	None[c]		31,638		No Estimates Made			--
		Subtotals			**1 Tagged Group**	**11,315**	**31,638**					
					No. Released		**42,953**	**--**	**--**	**--**	**--**	**--**
					1 Mark Group; 0 Mark Groups Recovered in Fishery							
2003	B-2	East Fork Salmon River trap	EF	East Fork naturals Program	None[c]		27,707		No Estimates Made			--
		Subtotals				**0**	**27,707**					
					No. Released		**27,707**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
	East Fork Salmon River Trap Subtotals					**11,315**	**59,345**					
					No. Released		**70,660**	**--**	**--**	**--**	**--**	**--**
					1 Mark Group; 0 Mark Groups Recovered in Fishery							
2004	A-1	Salmon River at Tunnel Rock	SFH	Production	None		57,800		186	408	594	0.31
		Subtotals				**0**	**57,800**					
					No. Released		**57,800**	**0**	**186**	**408**	**594**	**0.31**
					0 Mark Groups							
2003	A-2	Salmon River at Tunnel Rock	SFH	Production	None		67,522		90	226	316	0.28
					None		9,120		12	31	43	0.28
		Subtotals				**0**	**76,642**					
					No. Released		**76,642**	**0**	**102**	**257**	**359**	**0.28**
					0 Mark Groups							

Appendix D. Continued.

Fall 2005–Spring 2006 Season, continued.

Release Year	Stock and Ocean Age	Release Site	Stock Name[a]	Marking Purpose	Coded Wire Tags (CWT)	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
	Salmon River at Tunnel Rock Subtotals					**0**	**134,442**					
					No. Released		**134,442**	**0**	**288**	**665**	**953**	**0.30**
					0 Mark Groups							
2004	A-1	Salmon River at McNabb Point	SFH	Production	None		44,942		145	317	462	0.31
			PFH	Production	CWT 10/25/75	32,299			104	228	332	0.31
					None		50,499		163	357	520	0.31
		Subtotals				**32,299**	**95,441**					
					No. Released		**127,740**	**0.25**	**412**	**902**	**1,314**	**0.31**
					1 Mark Group; 1 Mark Group Recovered in Fishery							
2003	A-2	Salmon River at McNabb Point	PFH	Production	CWT 10/61/73	32,892			44	110	154	0.29
					None		60,212		81	202	283	0.29
		Subtotals				**32,892**	**60,212**					
					No. Released		**93,104**	**0.35**	**125**	**312**	**437**	**0.29**
					1 Mark Group; 1 Mark Group Recovered in Fishery							
	Salmon River at McNabb Point Subtotals					**65,191**	**155,653**					
					No. Released		**220,844**	**0.30**	**537**	**1,214**	**1,751**	**0.31**
					2 Mark Groups; 2 Mark Groups Recovered in Fishery							
2004	A-1	Pahsimeroi Hatchery	PFH	Production	CWT 10/26/75	26,031			165	169	334	0.49
					None		805		5	6	11	0.45
	Pahsimeroi Hatchery Subtotals					**26,031**	**805**					
					No. Released		**26,836**	**0.97**	**170**	**175**	**345**	**0.49**
					1 Mark Group; 1 Mark Group Recovered in Fishery							
2003	A-2	Pahsimeroi River	PFH	Pahsimeroi Evaluation	CWT 10/60/73	32,846			59	40	99	0.60
					None		1,016		2	3	5	0.40
	Pahsimeroi River Subtotals					**32,846**	**1,016**					
					No. Released		**33,862**	**0.97**	**61**	**43**	**104**	**0.59**
					1 Mark Group; 1 Mark Group Recovered in Fishery							
2004	A-1	Salmon River at Colston Corner	PFH	Production	CWT 10/05/71	20,581			220	145	365	0.60
					CWT 10/03/73	10,569			32	75	107	0.30
					None		91,765		742	648	1,390	0.53
		Subtotals				**31,150**	**91,765**					
					No. Released		**122,915**	**0.25**	**994**	**868**	**1,862**	**0.53**
					2 Mark Groups; 2 Mark Groups Recovered in Fishery							
2003	A-2	Salmon River at Colston Corner	PFH	Production	CWT 10/59/73	31,751			44	106	150	0.29
					None		129,269		179	433	612	0.29
		Subtotals				**31,751**	**129,269**					

Appendix D. Continued.

Fall 2005–Spring 2006 Season, continued.

Release Year	Stock and Ocean Age	Release Site	Stock Name[a]	Marking Purpose	Coded Wire Tags (CWT)	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
					No. Released		**161,020**	**0.20**	**223**	**539**	**762**	**0.29**
					1 Mark Group; 1 Mark Group Recovered in Fishery							
	Salmon River at Colston Corner Subtotals					**62,901**	**221,034**					
					No. Released		**283,935**	**0.22**	**1,217**	**1,407**	**2,624**	**0.46**
					3 Mark Groups; 3 Mark Groups Recovered in Fishery							
2004	A-1	Lemhi River at mouth	PFH	Production	None		70,780		506	500	1006	0.50
		Subtotals				**0**	**70,780**					
					No. Released		**70,780**	**0**	**506**	**500**	**1,006**	**0.50**
					0 Mark Groups							
2003	A-2	Lemhi River at mouth	PFH	Production	None		70,848		81	237	318	0.25
		Subtotals				**0**	**70,848**					
					No. Released		**70,848**	**0**	**81**	**237**	**318**	**0.25**
					0 Mark Groups							
	Lemhi River at Mouth Subtotals					**0**	**141,628**					
					No. Released		**141,628**	**0**	**587**	**737**	**1,324**	**0.44**
					0 Mark Groups							
2004	A-1	Lemhi River at St. Charles bridge	PFH	Production	CWT 10/68/73	28,235			202	199	401	0.50
					None		873		6	6	12	0.50
				Low Water Decision	None[c]		59,146		No Estimates Made			--
	Lemhi River at St. Charles Bridge Subtotals					**28,235**	**60,019**					
					No. Released		**88,254**	**0.97[d]**	**208**	**205**	**413**	**0.50**
					1 Mark Group; 1 Mark Group Recovered in Fishery							
2003	A-2	Lemhi River at County scale	PFH	Production	CWT 10/64/73	31,583			36	106	142	0.25
					None		977		1	3	4	0.25
	Lemhi River at County Scale Subtotals					**31,583**	**977**					
					No. Released		**32,560**	**0.97**	**37**	**109**	**146**	**0.25**
					1 Mark Group; 1 Mark Group Recovered in Fishery							
2004	A-1	Lemhi River at Hayden Creek	PFH	Production	None[c]		18,600		No Estimates Made			--
		Subtotals				**0**	**18,600**					
					No. Released		**18,600**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
2003	A-2	Lemhi River at Hayden Creek	PFH	Production	None[c]		83,157		No Estimates Made			--
		Subtotals				**0**	**83,157**					
					No. Released		**83,157**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							

Appendix D. Continued.

Fall 2005–Spring 2006 Season, continued.

Release Year	Stock and Ocean Age	Release Site	Stock Name[a]	Marking Purpose	Coded Wire Tags (CWT)	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
	Lemhi River at Hayden Creek Subtotals					**0**	**101,757**					
					No. Released		**101,757**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
2004	A-1	Salmon River at Red Rock	PFH	Production	CWT 10/06/71	20,600			143	146	289	0.49
					CWT 10/04/73	10,576			107	75	182	0.59
					None		101,352		813	716	1529	0.53
		Subtotals				**31,176**	**101,352**					
					No. Released		**132,528**	**0.24**	**1,063**	**937**	**2,000**	**0.53**
					2 Mark Groups; 2 Mark Groups Recovered in Fishery							
2003	A-2	Salmon River at Red Rock	PFH	Production	CWT 10/63/73	32,446			58	109	167	0.35
					None		99,895		179	335	514	0.35
		Subtotals				**32,446**	**99,895**					
					No. Released		**132,341**	**0.25**	**237**	**444**	**681**	**0.35**
					1 Mark Group; 1 Mark Group Recovered in Fishery							
	Salmon River at Red Rock Subtotals					**63,622**	**201,247**					
					No. Released		**264,869**	**0.24**	**1,300**	**1,381**	**2,681**	**0.48**
					3 Mark Groups; 3 Mark Groups Recovered in Fishery							
2004	A-1	Hammer Creek	PFH	Production	None		178,984		1392	1264	2656	0.52
		Subtotals				**0**	**178,984**					
					No. Released		**178,984**	**0**	**1,392**	**1,264**	**2,656**	**0.52**
					0 Mark Groups							
2003	A-2	Hammer Creek at Mouth	PFH	Production	None		183,634		441	615	1,056	0.42
		Subtotals				**0**	**183,634**					
					No. Released		**183,634**	**0.00**	**441**	**615**	**1,056**	**0.42**
					0 Mark Groups							
	Hammer Creek at Mouth Subtotals					**0**	**362,618**					
					No. Released		**362,618**	**0**	**1,833**	**1,879**	**3,712**	**0.49**
					0 Mark Groups							
2004	B-1	Little Salmon River	DNFH	Production	CWT 10/35/75	66,580			111	0	111	1.00
					None		132,043		220	0	220	1.00
	Little Salmon River Subtotals					**66,580**	**132,043**					
					No. Released		**198,623**	**0.34**	**331**	**0**	**331**	**1.00**
					1 Mark Group; 1 Mark Group Recovered in Fishery							
2003	B-2	Little Salmon Rilver at Stinky Springs	DNFH	Production	CWT 10/99/72	65,097			23	0	23	1.00
					None		271,886		96	0	96	1.00

Appendix D. Continued.

Fall 2005–Spring 2006 Season, continued.

Release Year	Stock and Ocean Age	Release Site	Stock Name[a]	Marking Purpose	Coded Wire Tags (CWT)	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
	Little Salmon River at Stinky Springs Subtotals					**65,097**	**271,886**					
					No. Released		**336,983**	**0.19**	**119**	**0**	**119**	**1.00**
					1 Mark Group; 1 Mark Group Recovered in Fishery							
Releases from Magic Valley Fish Hatchery												
		"A" Stock Releases				**376,849**	**1,332,001**					
		(with adipose fin clips)			**No. Released**		**1,708,850**	**0.22**	**6,564**	**7,974**	**14,538**	**0.45**
					14 Mark Groups; 14 Mark Groups Recovered in Fishery							
		"B" Stock Releases				**437,379**	**1,278,655**					
		(with adipose fin clips)			**No. Released**		**1,716,034**	**0.25**	**2,209**	**110**	**2,319**	**0.95**
					11 Mark Groups; 11 Mark Groups Recovered in Fishery							
	Total Releases with Adipose Fin Clips					**814,228**	**2,610,656**					
					No. Released		**3,424,884**	**0.24**	**8,773**	**8,084**	**16,857**	**0.52**
					25 Mark Groups; 25 Mark Groups Recovered in Fishery							
	Releases without Adipose Fin Clips					**11,315**	**330,328**					
					No. Released		**341,643**	**0.03**	**--**	**--**	**--**	**--**
					1 Mark Group; 0 Mark Groups Recovered in Fishery							
CLEARWATER FISH HATCHERY RELEASES												
2004	B-1	Red River	DNFH	Production	None		105,732		54	52	106	0.51
				Supplementation	None		56,508		29	28	57	0.51
				Acclimated Supplementation	BWT 10/00/00[c,e]	53,851			No Estimates Made			--
				Acclimated Assessment Supplementation	BWT 10/00/00[c,e]	54,396			No Estimates Made			--
				Direct Assessment								
	Red River Subtotals					**108,247**	**162,240**					
					No. Released		**270,487**	**0[d]**	**83**	**80**	**163**	**0.51**
					2 Mark Groups; 0 Mark Groups Recovered in Fishery							
2003	B-2	Red River Rearing Ponds	DNFH	Production	None		100,000		150	116	266	0.56
				Supplementation	None[c]		149,987		No Estimates Made			--
	Red River Rearing Ponds Subtotals					**0**	**249,987**					
					No. Released		**249,987**	**0[d]**	**150**	**116**	**266**	**0.56**
					0 Mark Groups							

Appendix D. Continued.

Fall 2005–Spring 2006 Season, continued.

Release Year	Stock and Ocean Age	Release Site	Stock Name[a]	Marking Purpose	Coded Wire Tags (CWT)	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
2004	B-1	South Fork Clearwater River at Meadow Creek	DNFH	NPT Fall agreement	None[c]		1,061		No Estimates Made			--
		Subtotals				**0**	**1,061**					
					No. Released		**1,061**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
2003	B-2	South Fork Clearwater River at Meadow Creek	DNFH	Nez Perce Tribe Agreement	None[c]		23,310		No Estimates Made			**--**
		Subtotals				**0**	**23,310**					
					No. Released		**23,310**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
	South Fork Clearwater River at Meadow Creek Subtotals					**0**	**24,371**					
					No. Released		**24,371**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
2004	B-1	South Fork Clearwater River at Mill Creek	DNFH	NPT agreement	BWT 10/00/00[c,e]	27,466	0		No Estimates Made			--
		Subtotals				**27,466**	**0**					
					No. Released		**27,466**	**--**	**--**	**--**	**--**	**--**
					1 Mark Group; 0 Mark Groups Recovered in Fishery							
2003	B-2	South Fork Clearwater River at Mill Creek	DNFH	Supplementation; Late eggs	None[c]		**33,362**		No Estimates Made			--
		Subtotals				**0**	**33,362**					
					No. Released		**33,362**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
	South Fork Clearwater River at Mill Creek Subtotals					**27,466**	**33,362**					
					No. Released		**60,828**	**--**	**--**	**--**	**--**	**--**
					1 Mark Group; 0 Mark Groups Recovered in Fishery							
2004	B-1	South Fork Clearwater River at Red House Hole	DNFH	Production	CWT 10/38/75	66,097			55	32	87	0.63
					None		248,866		207	121	328	0.63
		Subtotals				**66,097**	**248,866**					
					No. Released		**314,963**	**0.21**	**262**	**153**	**415**	**0.63**
					1 Mark Group; 1 Mark Group Recovered in Fishery							
2003	B-2	South Fork Clearwater River at Red House Hole	DNFH	Production	CWT 10/95/72	62,806			455	1	456	1.00
					None		86,861		629	101	730	0.86
				Surplus presmolt release	None		22,599		164	26	190	0.86

Appendix D. Continued.

Fall 2005–Spring 2006 Season, continued.

Release Year	Stock and Ocean Age	Release Site	Stock Name[a]	Marking Purpose	Coded Wire Tags (CWT)	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
2003	B-2	South Fork Clearwater River at Red House Hole, continued.										
		Subtotals				**62,806**	**109,460**					
					No. Released		**172,266**	**0.36**	**1,248**	**128**	**1,376**	**0.91**
					1 Mark Group; 1 Mark Group Recovered in Fishery							
	South Fork Clearwater River at Red House Hole Subtotals					**128,903**	**358,326**					
					No. Released		**487,229**	**0.26**	**1,510**	**281**	**1,791**	**0.84**
					2 Mark Groups; 2 Mark Groups Recovered in Fishery							
2004	B-1	Clear Creek	DNFH	Production	None		103,718		86	51	137	0.63
		Subtotals				**0**	**103,718**					
					No. Released		**103,718**	**0**	**86**	**51**	**137**	**0.63**
					0 Mark Groups							
2003	B-2	Clear Creek tributary to Clearwater River	DNFH	Production	None		108,052		783	125	908	0.86
		Subtotals				**0**	**108,052**					
					No. Released		**108,052**	**0**	**783**	**125**	**908**	**0.86**
					0 Mark Groups							
	Clear Creek Subtotals					**0**	**211,770**					
					No. Released		**211,770**	**0**	**869**	**176**	**1,045**	**0.83**
					0 Mark Groups							
2004	B-1	Crooked River	DNFH	Supplementation	CWT 10/78/70[c]	21,449			No Estimates Made			--
					None[c]		81,887		No Estimates Made			--
				Production	CWT 10/37/75	65,120			33	5	38	0.87
					None		89,357		45	9	54	0.83
	Crooked River Subtotals					**86,569**	**171,244**					
					No. Released		**257,813**	**0.42[d]**	**78**	**14**	**92**	**0.85**
					2 Mark Groups; 1 Mark Groups Recovered in Fishery							
2003	B-2	Crooked River Ponds	DNFH	Production	CWT 10/96/72	62,848			94	1	95	0.99
					None		99,776		149	2	151	0.99
				Supplementation	CWT 10/89/70[c]	20,722			No Estimates Made			--
					None[c]		81,212		No Estimates Made			--
	Crooked River Ponds Subtotals					**83,570**	**180,988**					
					No. Released		**264,558**	**0.39[d]**	**243**	**3**	**246**	**0.99**
					2 Mark Groups; 1 Mark Groups Recovered in Fishery							
2004	B-1	Meadow Creek tributary to the Selway River	DNFH	NPT Fall agreement	BWT 10/00/00[c,e]		25,961		No Estimates Made			--

Appendix D. Continued.

Fall 2005–Spring 2006 Season, continued.

Release Year	Stock and Ocean Age	Release Site	Stock Name[a]	Marking Purpose	Coded Wire Tags (CWT)	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
	Meadow Creek tributary to the Selway River Subtotals					**0**	**25,961**					
					No. Released		**25,961**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
2004	B-1	Lolo Creek	DNFH	NPT agreement	None[c]		51,859		No Estimates Made			--
		Subtotals				**0**	**51,859**					
					No. Released		**51,859**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
2003	B-2	Lolo Creek	DNFH	Nez Perce Tribe Agreement	None[c]		43,070		No Estimates Made			--
		Subtotals				**0**	**43,070**					
					No. Released		**43,070**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
	Lolo Creek Subtotals					**0**	**94,929**					
					No. Released		**94,929**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
Releases from Clearwater Fish Hatchery												
		"B" Stock Releases (with adipose fin clips)				**256,871**	**1,021,469**					
					No. Released		**1,278,340**	**0.20**	**2,933**	**670**	**3,603**	**0.81**
					4 Mark Groups; 4 Mark Groups Recovered in Fishery							
		Releases without Adipose Fin Clips				**177,884**	**491,709**					
					No. Released		**669,593**	**0.27**	**--**	**--**	**--**	**--**
					6 Mark Groups; 0 Mark Groups Recovered in Fishery							
Total Returns for Run Year 2005-2006												
		Releases with Adipose Fin Clips				**1,191,355**	**5,226,387**					
					No. Released		**6,417,742**	**0.19**	**15,578**	**10,768**	**26,346**	**0.59**
					35 Mark Groups; 35 Mark Groups Recovered in Fishery							
		Releases without Adipose Fin Clips				**189,199**	**1,734,973**					
					No. Released		**1,924,172**	**0.10**	**--**	**--**	**--**	**--**
					7 Mark Groups; 0 Mark Groups Recovered in Fishery							

Appendix D. Continued.

Fall 2006–Spring 2007 Season

Release Year	Stock and Ocean Age	Release Site	Stock Name[a]	Marking Purpose	Coded Wire Tags (CWT)	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
HAGERMAN NATIONAL FISH HATCHERY RELEASES												
2005	A-1	Sawtooth Hatchery	SFH	Production	CWT 10/91/70	21,313			188	85	273	0.69
					CWT 10/92/70	21,505			152	82	234	0.65
					CWT 10/81/70	20,834			203	121	324	0.63
					CWT 10/82/70	21,909			188	112	300	0.63
					None		661,905		5,655	3,126	8,781	0.64
		Subtotals				**85,561**	**661,905**					
					No. Released		**747,466**	**0.11**	**6,386**	**3,526**	**9,912**	**0.64**
					4 Mark Groups; 4 Mark Groups Recovered in Fishery							
2004	A-2	Sawtooth Hatchery	SFHb	Production	CWT 10/85/70	21,610			15	11	26	0.58
					CWT 10/86/70	21,013			12	8	20	0.60
					CWT 10/87/70	21,592			4	14	18	0.22
					CWT 10/88/70	21,441			21	16	37	0.57
					None		671,064		407	384	791	0.51
		Subtotals				**85,656**	**671,064**					
					No. Released		**756,720**	**0.11**	**459**	**433**	**892**	**0.51**
					4 Mark Groups; 4 Mark Groups Recovered in Fishery							
	Sawtooth Hatchery Subtotals					**171,217**	**1,332,969**					
					No. Released		**1,504,186**	**0.08**	**6,845**	**3,959**	**10,804**	**0.63**
					8 Mark Groups; 8 Mark Groups Recovered in Fishery							
2005	A-1	Yankee Fork Salmon River dredge ponds	SFH	Supplementation	None[c]		139,384		No Estimates Made			--
		Subtotals				**0**	**139,384**					
					No. Released		**139,384**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
2004	A-2	Yankee Fork Salmon River dredge ponds	SFH	Sho-Ban Agreement	None[c]		**138,664**		No Estimates Made			--
		Subtotals				**0**	**138,664**					
					No. Released		**138,664**	--	**--**	**--**	**--**	**--**
					0 Mark Groups							
	Yankee Fork Salmon River dredge pond Subtotals					**0**	**278,048**					
					No. Released		**278,048**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
2005	B-1	East Fork Salmon River at Dumpster	DNFH	Production	None		100,150		110	4	114	0.96

Appendix D. Continued.

Fall 2006–Spring 2007 Season, continued.

Release Year	Stock and Ocean Age	Release Site	Stock Name[a]	Marking Purpose	Coded Wire Tags (CWT)	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
		Subtotals				**0**	**100,150**					
					No. Released		**100,150**	**0**	**110**	**4**	**114**	**0.96**
					0 Mark Groups							
2004	B-2	East Fork Salmon River at Dumpster	DNFH	Production	None		96,073		139	24	163	0.85
		Subtotals				**0**	**96,073**					
							96,073	**0**	**139**	**24**	**163**	**0.85**
					0 Mark Groups							
	East Fork Salmon River at Dumpster Subtotals					**0**	**196,223**					
					No. Released		**196,223**	**0**	**249**	**28**	**277**	**0.90**
					0 Mark Groups							
2004	A-2	Lemhi River	SFH	Production	None		13,330		18	17	35	0.51
	Lemhi River Subtotals					**0**	**13,330**					
					No. Released		**13,330**	**0**	**18**	**17**	**35**	**0.51**
					0 Mark Groups							
2004	A-2	Little Salmon River at Stinky Springs	SFH	--	None[c]		177,094		No Estimates Made			--
		Subtotals				**0**	**177,094**					
					No. Released		**177,094**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
2004	B-2	Little Salmon River at Stinky Springs	SFH	--	None		100,494		104	11	115	0.90
		Subtotals				**0**	**100,494**					
					No. Released		**100,494**	**0**	**104**	**11**	**115**	**0.90**
					0 Mark Groups							
	Little Salmon River at Stinky SpringsSubtotals					**0**	**277,588**					
					No. Released		**277,588**	**0[d]**	**104**	**11**	**115**	**0.90**
					0 Mark Groups							
2005	A-1	Hazard Creek	PFH	Supplementation	None[c]		201,015		No Estimates Made			--
		Subtotals				**0**	**201,015**					
					No. Released		**201,015**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
2004	A-2	Hazard Creek	PFH	--	None[c]		42,001		No Estimates Made			--
		Subtotals				**0**	**42,001**					
					No. Released		**42,001**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							

Appendix D. Continued.

Fall 2006–Spring 2007 Season, continued.

Release Year	Stock and Ocean Age	Release Site	Stock Name[a]	Marking Purpose	Coded Wire Tags (CWT)	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
2005	B-1	Hazard Creek	DNFH	Production	None		91,264		11	4	15	0.73
		Subtotals				**0**	**91,264**					
					No. Released			**0**	**11**	**4**	**15**	**0.73**
					0 Mark Groups							
	Hazard Creek Subtotals					**0**	**334,280**					
					No. Released		**334,280**	**0[d]**	**11**	**4**	**15**	**0.73**
					0 Mark Groups							
2004	A-2	Newsome Creek	PFH	--	None[c]		65,080		No Estimates Made			--
	Newsome Creek Subtotals					**0**	**65,080**					
					No. Released		**65,080**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
2004	A-2	American River	PFH	--	None[c]		74,620		No Estimates Made			--
	American River Subtotals					**0**	**74,620**	**--**	**--**	**--**	**--**	**--**
					No. Released		**74,620**					
					0 Mark Groups							
Releases from Hagerman National Fish Hatchery												
		"A" Stock Releases				**171,217**	**1,346,299**					
		(with adipose fin clips)			**No. Released**		**1,517,516**	**0.11**	**6,863**	**3,976**	**10,839**	**0.63**
					8 Mark Groups; 8 Mark Groups Recovered in Fishery							
		"B" Stock Releases				**0**	**387,981**					
		(with adipose fin clips)					**387,981**	**0**	**364**	**43**	**407**	**0.89**
					0 Mark Groups							
	Total Releases with Adipose Fin Clips					**171,217**	**1,734,280**					
					No. Released		**1,905,497**	**0.09**	**7,227**	**4,019**	11,246	**0.64**
					8 Mark Groups; 8 Mark Groups Recovered in Fishery							
	Releases without Adipose Fin Clips (Both "A" and "B" Stock Released)					**0**	**837,858**					
					No. Released		**837,858**	**--**	**--**	**--**	**--**	--
					0 Mark Groups							

Appendix D. Continued.

Fall 2006–Spring 2007 Season, continued.

Release Year	Stock and Ocean Age	Release Site	Stock Name[a]	Marking Purpose	Coded Wire Tags (CWT)	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
MAGIC VALLEY FISH HATCHERY RELEASES												
2005	A-1	Valley Creek (upper Salmon River)	SFH	Supplementation	None		30,100		257	141	398	0.65
		Subtotals				**0**	**30,100**					
					No. Released		**30,100**	**0**	**257**	**141**	**398**	**0.65**
					0 Mark Groups							
2004	A-2	Valley Creek (upper Salmon River)	SFH	Production	None[c]		24,156		No Estimates Made			--
		Subtotals				**0**	**24,156**					
					No. Released		**24,156**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
	Valley Creek (upper Salmon River) Subtotals					**0**	**54,256**					
					No. Released		**54,256**	**0[d]**	**257**	**141**	**398**	**0.65**
					0 Mark Groups							
2004	A-2	Yankee Fork Salmon River at third bridge up	SFH	Production	CWT 10/24/75	32,809			13	19	32	0.41
					None		6,015		2	3	5	0.40
				Sho-Ban Agreement	None[c]		25,800		No Estimates Made			--
		Subtotals				**32,809**	**31,815**					
					No. Released		**64,624**	**0.85[d]**	**15**	**22**	**37**	**0.41**
					1 Mark Group; 1 Mark Group Recovered in Fishery							
2004	B-2	Yankee Fork Salmon River at third bridge up	DNFH	Production	None		123,258		178	31	209	0.85
		Subtotals				**0**	**123,258**					
					No. Released		**123,258**	**0**	**178**	**31**	**209**	**0.85**
					0 Mark Groups							
	Yankee Fork Salmon River at Third Bridge Up Subtotals					**32,809**	**155,073**					
					No. Released		**187,882**	**0.20[d]**	**193**	**53**	**246**	**0.78**
					1 Mark Group; 1 Mark Group Recovered in Fishery							
2005	A-1	Yankee Fork Salmon River dredge ponds	SFH	Production	CWT 10/53/76	26,451			173	124	297	0.58
					None		133,549		873	626	1,499	0.58
				Supplementation	None[c]		30,451		No Estimates Made			--
	West Fork Yankee Fork Salmon River Subtotals					**26,451**	**164,000**					
					No. Released		**190,451**	**0.17[d]**	**1,046**	**750**	**1,796**	**0.58**
					1 Mark Group; 1 Mark Group Recovered in Fishery							

Appendix D. Continued.

Fall 2006–Spring 2007 Season, continued.

Release Year	Stock and Ocean Age	Release Site	Stock Name[a]	Marking Purpose	Coded Wire Tags (CWT)	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
2005	B-1	Squaw Creek ponds	DNFH	Production	CWT 10/85/76	50,110			40	2	42	0.95
					None		1,550		1	0	1	1.00
			EF	Production	CWT 10/78/73	34,385			53	1	54	0.98
					None		1,063		2	0	2	1.00
		Subtotals				**84,495**	**2,613**					
					No. Released		**87,108**	**0.97**	**96**	**3**	**99**	**0.97**
					2 Mark Groups; 2 Mark Groups Recovered in Fishery							
2004	B-2	Squaw Creek ponds	DNFH	DNFH	CWT 10/22/75	31,761			15	1	16	0.94
					CWT 10/23/75	31,134			51	6	57	0.89
					None		1,945		2	0	2	1.00
			EFf	Upper Salmon	CWT 10/01/71	20,353			41	6	47	0.87
					CWT 10/02/71	18,298			41	11	52	0.79
					CWT 10/03/71	17,974			25	6	31	0.81
					None		1,752		3	1	4	0.75
		Subtotals				**119,520**	**3,697**					
					No. Released		**123,217**	**0.97**	**178**	**31**	**209**	**0.85**
					5 Mark Groups; 5 Mark Groups Recovered in Fishery							
	Squaw Creek Ponds Subtotals					**204,015**	**6,310**					
					No. Released		**210,325**	**0.97**	**274**	**34**	**308**	**0.89**
					7 Mark Groups; 7 Mark Groups Recovered in Fishery							
2005	B-1	Squaw Creek below pond outlet	DNFH	Production	None		244,237		269	9	278	0.97
		Subtotals				**0**	**244,237**					
					No. Released		**244,237**	**0**	**269**	**9**	**278**	**0.97**
					0 Mark Groups							
2004	B-2	Squaw Creek (upper Salmon River)	DNFH	Squaw Creek Release	None		149,588		217	38	255	0.85
				RV Evaluation	None		29,948		43	8	51	0.84
				Production	None		19,200		28	5	33	0.85
		Subtotals				**0**	**198,736**					
					No. Released		**198,736**	**0**	**288**	**51**	**339**	**0.85**
					0 Mark Groups							
	Squaw Creek Subtotals					**0**	**442,973**					
					No. Released		**442,973**	**0**	**557**	**60**	**617**	**0.90**
					0 Mark Groups							
2005	B-1	East Fork Salmon River below Parr Creek	DNFH	Production	None		236,818		261	8	269	0.97

Appendix D. Continued.

Fall 2006–Spring 2007 Season, continued.

Release Year	Stock and Ocean Age	Release Site	Stock Name[a]	Marking Purpose	Coded Wire Tags (CWT)	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
	East Fork Salmon River below Parr Creek Subtotals					**0**	**236,818**					
					No. Released		**236,818**	**0**	**261**	**8**	**269**	**0.97**
					0 Mark Groups							
2004	B-2	East Fork Salmon River at dumpster	DNFH	Production	None		196,402		284	49	333	0.85
	East Fork Salmon River at Dumpster Subtotals					**0**	**196,402**					
					No. Released		**196,402**	**0**	**284**	**49**	**333**	**0.85**
					0 Mark Groups							
2005	B-1	East Fork Salmon River trap	EF	Supplementation	BWT 10/00/00[c,e]		11,116		No Estimates Made			--
		Subtotals			**1 Tagged Group**	**0**	**11,116**					
					No. Released		**11,116**	**--**	**--**	**--**	**--**	**--**
					1 Mark Group; 0 Mark Groups Recovered in Fishery							
2004	B-2	East Fork Salmon River trap	DNFH	Production	BWT 10/00/00[c,e]	11,315			No Estimates Made			**--**
			EF	Production	None[c]		31,638		No Estimates Made			**--**
		Subtotals			**1 Tagged Group**	**11,315**	**31,638**					
					No. Released		**42,953**	**--**	**--**	**--**	**--**	**--**
					1 Mark Group; 0 Mark Groups Recovered in Fishery							
	East Fork Salmon River Trap Subtotals					**11,315**	**42,754**					
					No. Released		**54,069**	**--**	**--**	**--**	**--**	**--**
					2 Mark Group; 0 Mark Groups Recovered in Fishery							
2005	A-1	Salmon River at Tunnel Rock	SFH	Production	None		69,254		309	319	628	0.49
		Subtotals				**0**	**69,254**					
					No. Released		**69,254**	**0**	**309**	**319**	**628**	**0.49**
					0 Mark Groups							
2004	A-2	Salmon River at Tunnel Rock	SFH	Production	None		57,800		84	75	159	0.53
		Subtotals				**0**	**57,800**					
					No. Released		**57,800**	**0**	**84**	**75**	**159**	**0.53**
					0 Mark Groups							
	Salmon River at Tunnel Rock Subtotals					**0**	**127,054**					
					No. Released		**127,054**	**0**	**393**	**394**	**787**	**0.50**
					0 Mark Groups							

Appendix D. Continued.

Fall 2006–Spring 2007 Season, continued.

Release Year	Stock and Ocean Age	Release Site	Stock Name[a]	Marking Purpose	Coded Wire Tags (CWT)	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
2005	A-1	Salmon River at McNabb Point	SFH	Production	None		34,362		155	159	314	0.49
			PFH	Production	CWT 10/52/76	27,980			125	129	254	0.49
					None		30,136		135	139	274	0.49
		Subtotals				**27,980**	**64,498**					
					No. Released		**92,478**	**0.30**	**415**	**427**	**842**	**0.49**
					1 Mark Group; 1 Mark Group Recovered in Fishery							
2004	A-2	Salmon River at McNabb Point	SFH	Production	None		44,942		65	59	124	0.52
			PFH	Production	CWT 10/25/75	32,299			47	42	89	0.53
					None		50,499		73	66	139	0.53
		Subtotals				**32,299**	**95,441**					
					No. Released		**127,740**	**0.25**	**185**	**167**	**352**	**0.53**
					1 Mark Group; 1 Mark Group Recovered in Fishery							
	Salmon River at McNabb Point Subtotals					**60,279**	**159,939**					
					No. Released		**220,218**	**0.27**	**600**	**594**	**1,194**	**0.50**
					2 Mark Groups; 2 Mark Groups Recovered in Fishery							
2005	A-1	Pahsimeroi Hatchery	PFH	Production	CWT 10/51/76	26,522			162	122	284	0.57
					None		820		5	3	8	0.63
		Subtotals				**26,522**	**820**					
					No. Released		**27,342**	**0.97**	**167**	**125**	**292**	**0.57**
					1 Mark Group; 1 Mark Group Recovered in Fishery							
2004	A-2	Pahsimeroi Hatchery	PFH	Production	CWT 10/26/75	26,031			52	34	86	0.60
					None		805		2	1	3	0.67
		Subtotals				**26,031**	**805**					
					No. Released		**26,836**	**0.97**	**54**	**35**	**89**	**0.61**
					1 Mark Group; 1 Mark Group Recovered in Fishery							
	Pahsimeroi Hatchery Subtotals					**52,553**	**1,625**					
							54,178	**0.97**	**221**	**160**	**381**	**0.58**
					2 Mark Groups; 2 Mark Groups Recovered in Fishery							
2005	A-1	Salmon River at Colston Corner	PFH	Production	CWT 10/54/76	28,695			149	132	281	0.53
					None		142,360		739	655	1,394	0.53
		Subtotals				**28,695**	**142,360**					
					No. Released		**171,055**	**0.17**	**888**	**787**	**1,675**	**0.53**
					1 Mark Group; 1 Mark Group Recovered in Fishery							

Appendix D. Continued.

Fall 2006–Spring 2007 Season, continued.

Release Year	Stock and Ocean Age	Release Site	Stock Name[a]	Marking Purpose	Coded Wire Tags (CWT)	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
2004	A-2	Salmon River at Colston Corner	PFH	Production	CWT 10/05/71	20,581			40	27	67	0.60
					CWT 10/03/73	10,569			7	14	21	0.33
					None		91,765		138	120	258	0.53
		Subtotals				**31,150**	**91,765**					
					No. Released		**122,915**	**0.25**	**185**	**161**	**346**	**0.53**
					2 Mark Groups; 2 Mark Groups Recovered in Fishery							
	Salmon River at Colston Corner Subtotals					**59,845**	**234,125**					
					No. Released		**293,970**	**0.20**	**1,073**	**948**	**2,021**	**0.53**
					3 Mark Groups; 3 Mark Groups Recovered in Fishery							
2005	A-1	Lemhi River	PFH	Production	None		84,822		274	390	664	0.41
		Subtotals				**0**	**84,822**					
					No. Released		**84,822**	**0**	**274**	**390**	**664**	**0.41**
					0 Mark Groups							
2004	A-2	Lemhi River at mouth	PFH	Production	None		70,780		95	92	187	0.51
		Subtotals				**0**	**70,780**					
					No. Released		**70,780**	**0**	**95**	**92**	**187**	**0.51**
					0 Mark Groups							
	Lemhi River at Mouth Subtotals					**0**	**155,602**					
					No. Released		**155,602**	**0**	**369**	**482**	**851**	**0.43**
					0 Mark Groups							
2005	A-1	Lemhi River at St. Charles bridge	PFH	Production	CWT 10/50/76	26,612			86	122	208	0.41
					None		15,673		51	72	123	0.41
		Subtotals				**26,612**	**15,673**					
					No. Released		**42,285**	**0.63**	**137**	**194**	**331**	**0.41**
					1 Mark Group; 1 Mark Group Recovered in Fishery							
2004	A-2	Lemhi River at St. Charles bridge	PFH	Production	CWT 10/68/73	28,235			38	37	75	0.51
					None		873		1	1	2	0.50
				Low Water Decision	None[c]		59,146		No Estimates Made			--
		Subtotals				**28,235**	**60,019**					
							88,254	**0.97[d]**	**39**	**38**	**77**	**0.51**
					1 Mark Group; 1 Mark Group Recovered in Fishery							
	Lemhi River at St. Charles Bridge Subtotals					**54,847**	**75,692**					
					No. Released		**130,539**	**0.77[d]**	**176**	**232**	**408**	**0.43**
					2 Mark Groups; 2 Mark Groups Recovered in Fishery							

Appendix D. Continued.

Fall 2006–Spring 2007 Season, continued.

Release Year	Stock and Ocean Age	Release Site	Stock Name[a]	Marking Purpose	Coded Wire Tags (CWT)	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
2005	A-1	Lemhi River at Hayden Creek	PFH	Supplementation	None[c]		90,508		No Estimates Made			--
		Subtotals				**0**	**90,508**					
					No. Released		**90,508**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
2004	A-2	Lemhi River at Hayden Creek	PFH	Production	None[c]		18,600		No Estimates Made			--
		Subtotals				**0**	**18,600**					
					No. Released		**18,600**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
	Lemhi River at Hayden Creek Subtotals					**0**	**109,108**					
					No. Released		**109,108**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
2005	A-1	Salmon River at Red Rock	PFH	Production	CWT 10/55/76	25,860			163	119	282	0.58
					None		100,013		630	460	1,090	0.58
		Subtotals				**25,860**	**100,013**					
					No. Released		**125,873**	**0.21**	**793**	**579**	**1,372**	**0.58**
					1 Mark Group; 1 Mark Group Recovered in Fishery							
2004	A-2	Salmon River at Red Rock	PFH	Production	CWT 10/06/71	20,600			18	27	45	0.40
					CWT 10/04/73	10,576			24	14	38	0.63
					None		101,352		137	132	269	0.51
		Subtotals				**31,176**	**101,352**					
					No. Released		**132,528**	**0.24**	**179**	**173**	**352**	**0.51**
					2 Mark Groups; 2 Mark Groups Recovered in Fishery							
	Salmon River at Red Rock Subtotals					**57,036**	**201,365**					
					No. Released		**258,401**	**0.22**	**972**	**752**	**1,724**	**0.56**
					3 Mark Groups; 3 Mark Groups Recovered in Fishery							
2005	A-1	Hazard Creek	PFH	Production	None		84,828		278	390	668	0.42
	Hazard Creek Subtotals					**0**	**84,828**					
					No. Released		**84,828**	**0**	**278**	**390**	**668**	**0.42**
					0 Mark Groups							
2005	A-1	Little Salmon River at Stinky Springs	PFH	Production	None		63,050		207	290	497	0.42
		Subtotals				**0**	**63,050**					
					No. Released		**63,050**	**0**	**207**	**290**	**497**	**0.42**
					0 Mark Groups							

Appendix D. Continued.

Fall 2006–Spring 2007 Season, continued.

Release Year	Stock and Ocean Age	Release Site	Stock Name[a]	Marking Purpose	Coded Wire Tags (CWT)	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
2005	B-1	Little Salmon River at Stinky Springs	DNFH	Production	CWT 10/84/76	57,269			7	2	9	0.78
					None		94,124		12	4	16	0.75
		Subtotals				**57,269**	**94,124**					
					No. Released		**151,393**	**0.38**	**19**	**6**	**25**	**0.76**
					1 Mark Group; 1 Mark Group Recovered in Fishery							
	Little Salmon River at Stinky Springs Subtotals					**57,269**	**157,174**					
					No. Released		**214,443**	**0.27**	**226**	**296**	**522**	**0.43**
					1 Mark Group; 1 Mark Group Recovered in Fishery							
2004	B-2	Little Salmon River	DNFH	Production	CWT 10/35/75	66,580			69	7	76	0.90
					None		132,043		137	15	152	0.90
	Little Salmon River Subtotals					**66,580**	**132,043**					
					No. Released		**198,623**	**0.34**	**206**	**22**	**228**	**0.90**
					1 Mark Group; 1 Mark Group Recovered in Fishery							
2004	A-2	Hammer Creek	PFH	Production	None		178,984		461	234	695	0.66
	Hammer Creek at Mouth Subtotals					**0**	**178,984**					
					No. Released		**178,984**	**0**	**461**	**234**	**695**	**0.66**
					0 Mark Groups							
Releases from Magic Valley Fish Hatchery												
		"A" Stock Releases				**343,820**	**1,393,052**					
		(with adipose fin clips)			**No. Released**		**1,736,872**	**0.20**	**6,293**	**5,417**	**11,710**	**0.54**
		14 Mark Groups; 14 Mark Groups Recovered in Fishery										
		"B" Stock Releases				**327,864**	**1,231,928**					
		(with adipose fin clips)			**No. Released**		**1,559,792**	**0.21**	**1,554**	**182**	**1,736**	**0.90**
		9 Mark Groups; 9 Mark Groups Recovered in Fishery										
	Total Releases with Adipose Fin Clips					**671,684**	**2,624,980**					
					No. Released		**3,296,664**	**0.20**	**7,847**	**5,599**	**13,446**	**0.58**
		23 Mark Groups; 23 Mark Groups Recovered in Fishery										
	Releases without Adipose Fin Clips					**11,315**	**291,415**					
					No. Released		**302,730**	**0.04**	**--**	**--**	**--**	**--**
		2 Mark Group; 0 Mark Groups Recovered in Fishery										

Appendix D. Continued.

Fall 2006–Spring 2007 Season, continued.

Release Year	Stock and Ocean Age	Release Site	Stock Name[a]	Marking Purpose	Coded Wire Tags (CWT)	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
CLEARWATER FISH HATCHERY RELEASES												
2005	B-1	Red River	DNFH	Fall Agreement	None		148,838		285	50	335	0.85
				Fall Agreement, Direct Release	BWT 10/00/00[c,e]	49,966			No Estimates Made			--
				Fall Agreement, Acclimated	BWT 10/00/00[c,e]	50,045			No Estimates Made			--
		Subtotals				**100,011**	**148,838**					
					No. Released		**248,849**	**0[d]**	**285**	**50**	**335**	**0.85**
					2 Mark Groups; 0 Mark Groups Recovered in Fishery							
2004	B-2	Red River	DNFH	Production	None		105,732		487	144	631	0.77
				Supplementation Acclimated	None		56,508		260	77	337	0.77
				Supplementation Acclimated Assessment	BWT 10/00/00[c,e]	53,851			No Estimates Made			--
				Supplementation Direct Assessment	BWT 10/00/00[c,e]	54,396			No Estimates Made			--
		Subtotals				**108,247**	**162,240**					
					No. Released		**270,487**	**0[d]**	**747**	**221**	**968**	**0.77**
					2 Mark Groups; 0 Mark Groups Recovered in Fishery							
	Red River Subtotals					**208,258**	**311,078**					
					No. Released		**519,336**	**0[d]**	**1,032**	**271**	**1,303**	**0.79**
					4 Mark Groups; 0 Mark Groups Recovered in Fishery							
2005	B-1	South Fork Clearwater River at Meadow Creek	DNFH	Supplementation	BWT 10/00/00[c,e]	22,757			No Estimates Made			--
		Subtotals				**22,757**	**0**					
					No. Released		**22,757**	**--**	**--**	**--**	**--**	**--**
					1 Mark Group; 0 Mark Groups Recovered in Fishery							
2004	B-2	South Fork Clearwater River at Meadow Creek	DNFH	NPT Fall agreement	None[c]		1,061		No Estimates Made			--
		Subtotals				**0**	**1,061**					
					No. Released		**1,061**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
	South Fork Clearwater River at Meadow Creek Subtotals					**22,757**	**1,061**					
					No. Released		**23,818**	**--**	**--**	**--**	**--**	**--**
					1 Mark Group; 0 Mark Groups Recovered in Fishery							

Appendix D. Continued.

Fall 2006–Spring 2007 Season, continued.

Release Year	Stock and Ocean Age	Release Site	Stock Name[a]	Marking Purpose	Coded Wire Tags (CWT)	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
2005	B-1	South Fork Clearwater River at Mill Creek	DNFH	Supplementation	BWT 10/00/00[c,e]	**22,757**			No Estimates Made			--
		Subtotals				**22,757**	**0**					
					No. Released		**22,757**	**--**	**--**	**--**	**--**	**--**
					1 Mark Group; 0 Mark Groups Recovered in Fishery							
2004	B-2	South Fork Clearwater River at Mill Creek	DNFH	NPT agreement	BWT 10/00/00[c,e]	27,466			No Estimates Made			--
		Subtotals				**27,466**	**0**					
					No. Released		**27,466**	**--**	**--**	**--**	**--**	**--**
					1 Mark Group; 0 Mark Groups Recovered in Fishery							
	South Fork Clearwater River at Mill Creek Subtotals					**50,223**	**0**					
					No. Released		**50,223**	**--**	**--**	**--**	**--**	**--**
					2 Mark Groups; 0 Mark Groups Recovered in Fishery							
2005	B-1	South Fork Clearwater River at Red House Hole	DNFH	Production	CWT 10/82/76	61,749			287	21	308	0.93
					None		205,665		956	70	1,026	0.93
		Subtotals				**61,749**	**205,665**					
					No. Released		**267,414**	**0.23**	**1,243**	**91**	**1,334**	**0.93**
					1 Mark Group; 1 Mark Group Recovered in Fishery							
2004	B-2	South Fork Clearwater River at Red House Hole	DNFH	Production	CWT 10/38/75	66,097			634	0	634	1.00
					None		248,866		2,387	340	2,727	0.88
		Subtotals				**66,097**	**248,866**					
					No. Released		**314,963**	**0.21**	**3,021**	**340**	**3,361**	**0.90**
					1 Mark Group; 1 Mark Group Recovered in Fishery							
	South Fork Clearwater River at Red House Hole Subtotals					**127,846**	**454,531**					
					No. Released		**582,377**	**0.22**	**4,264**	**431**	**4,695**	**0.91**
					2 Mark Groups; 2 Mark Groups Recovered in Fishery							
2004	B-2	Clear Creek	DNFH	Production	None		103,718		995	142	1,137	0.88
	Clear Creek Subtotals					**0**	**103,718**					
					No. Released		**103,718**	**0**	**995**	**142**	**1,137**	**0.88**
					0 Mark Groups							
2005	B-1	Crooked River Trap	DNFH	Fall Agreement	CWT 10/83/76	58,431			112	0	112	1.00
							90,581		174	19	193	0.90
		Subtotals				**58,431**	**90,581**					
					No. Released		**149,012**	**0.39**	**286**	**19**	**305**	**0.94**
					1 Mark Group; 1 Mark Group Recovered in Fishery							

Appendix D. Continued.

Fall 2006–Spring 2007 Season, continued.

Release Year	Stock and Ocean Age	Release Site	Stock Name[a]	Marking Purpose	Coded Wire Tags (CWT)	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
2004	B-2	Crooked River	DNFH	Supplementation	CWT 10/78/70[c]	21,449			No Estimates Made			--
					None[c]		81,887		No Estimates Made			--
				Production	CWT 10/37/75	65,120			300	2	302	0.99
					None		89,357		412	3	415	0.99
		Subtotals				**86,569**	**171,244**					
					No. Released		**257,813**	**0.42[d]**	**712**	**5**	**717**	**0.99**
					2 Mark Groups; 1 Mark Group Recovered in Fishery							
	Crooked River Subtotals					**145,000**	**261,825**					
					No. Released		**406,825**	**0.41[d]**	**998**	**24**	**1,022**	**0.98**
2005	B-1	Crooked River Ponds	DNFH	Crooked River Up-stream Group Fall Agreement	CWT 10/48/13[c]	19,940			No Estimates Made			--
					None[c]		617		No Estimates Made			--
					None[c]		30,000		No Estimates Made			--
					None		33,163		64	4	68	0.94
	Crooked River Ponds Subtotals					**19,940**	**63,780**					
					No. Released		**83,720**	**0[d]**	**64**	**4**	**68**	**0.94**
					1 Mark Group; 0 Mark Groups Recovered in Fishery							
2004	B-2	Meadow Creek tributary to the Selway River	DNFH	NPT Fall agreement	BWT 10/00/00[c,e]		25,961		No Estimates Made			--
	Meadow Creek tributary to the Selway River Subtotals					**0**	**25,961**					
					No. Released		**25,961**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
2005	B-1	Lolo Creek	DNFH	NPT Lolo	None		53,046		247	18	265	0.93
		Subtotals				**0**	**53,046**					
					No. Released		**53,046**	**0**	**247**	**18**	**265**	**0.93**
					0 Mark Groups							
2004	B-2	Lolo Creek	DNFH	NPT agreement	None[c]		51,859		No Estimates Made			--
		Subtotals				**0**	**51,859**					
					No. Released		**51,859**	**--**	**--**	**--**	**--**	**--**
					0 Mark Groups							
	Lolo Creek Subtotals					**0**	**104,905**					
					No. Released		**104,905**	**0[d]**	**247**	**18**	**265**	**0.93**
					0 Mark Groups							
Releases from Clearwater Fish Hatchery												
		"B" Stock Releases (with adipose fin clips)				**251,397**	**1,135,474**					
					No. Released		**1,386,871**	**0.18**	**7,600**	**890**	**8,490**	**0.90**
					4 Mark Groups; 4 Mark Groups Recovered in Fishery							

Appendix D. Continued.

Fall 2006–Spring 2007 Season, continued.

Release Year	Stock and Ocean Age	Release Site	Stock Name[a]	Marking Purpose	Coded Wire Tags (CWT)	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
	Releases without Adipose Fin Clips					**322,627**	**191,385**					
					No. Released		**514,012**	**0.63**	**--**	**--**	**--**	**--**
					10 Mark Groups; 0 Mark Groups Recovered in Fishery							
Total Returns for Run Year 2006-2007												
	Releases with Adipose Fin Clips					**1,094,298**	**5,494,734**					
					No. Released		**6,589,032**	**0.17**	**22,674**	**10,508**	**33,182**	**0.68**
					35 Mark Groups; 35 Mark Groups Recovered in Fishery							
	Releases without Adipose Fin Clips					**333,942**	**1,320,658**					
					No. Released		**1,654,600**	**0.20**	**--**	**--**	**--**	**--**
					12 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] Steelhead released without adipose fin clip. These fish were not available for harvest in the general fishery.

[d] Calculation of marking rate does not include numbers of fish released with intact adipose fins.

[e] BWT = blank tag.

Appendix E. Summary of 4- and 5-year-old steelhead recovered in the Idaho fishery, fall 2004 through spring 2007.

2004-2007 Run Years						
Release Year	**Strain and Ocean Age**	**No. of Fish Released**	**Release Site**	**Hatchery Rearing**	**Marks**	**No. of Tags Recovered**
2004-2005 Season - None						
2005-2006 Season						
2002	B-3	21,104	South Fork Clearwater River at Red House Hole	CFH[a]	CWT 10/48/10	1
Season Total			**1 Mark Group**			**1**
2006-2007 Season - None						

[a] CFH = Clearwater Fish Hatchery.

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