

Fish Propagation Annual Report for 2004



IRRIGON AND UMATILLA HATCHERIES

Fish Division

Oregon Department of Fish and Wildlife

Salem, Oregon

April 2005

Contents

	<u>Page</u>
List of Tables	ii
Introduction.....	1
Organization.....	1
Facilities	3
Fish Production	6
Programming.....	6
Operations	7
Production Summaries	8
Triploid Trout Program.....	11
Repair and Maintenance	12
Technical Services	12
Fish Health	12
Specialized Analyses	13
Fish Stock Identification	13
Information Support.....	16
Administration	16
Hatchery Related Research and Monitoring Projects	17
Bonneville/Ringold Hatchery Evaluation	17
Grande Ronde Basin Spring Chinook Captive Broodstock Program	17
Hatchery Research Center.....	18
Hood River Steelhead Genetic Pedigree Project	19
Northeast Oregon Fish Research	19
Select Area Fishery Evaluation (SAFE)	20
Stock Assessment Coded-Wire Tagging Projects.....	22
Umatilla Hatchery Evaluation.....	22
Umpqua Coho Genetic Pedigree Project	23
Willamette Salmonid Inventory Project.....	24
Willamette Spring Chinook Research.....	24

List of Tables

	<u>Page</u>
Table 1. Oregon Department of Fish and Wildlife Fish Hatcheries	26
Table 2. Pounds of Fish Raised at ODFW Facilities in 2004	29
Table 3. Numbers and Pounds of Fish Released in Calendar Year 2004	34
Table 4. Fish Produced by ODFW Hatcheries for Release Outside Oregon	39
Table 5. Numbers and Pounds of Fish Stocked by Watershed in Calendar Year 2004.....	40
Table 6. Fish produced outside ODFW Hatcheries for Release in Oregon in 2004.....	41
Table 7. Fish purchased by ODFW from Private Fish Propagators in 2004.	41
Table 8. Summary of Egg and Fry Rearing at ODFW Hatcheries for Brood Year 2004	42
Table 9. Fish Loss Reports for 2004.....	48
Table 10. Adult Anadromous Fish Dispositions for 2004	49
Table 11. Wild Adult Fish Collection and Disposition for 2004	61
Table 12. Egg and Carcass Sales Report 2004	64
Table 13. Hatchery Maintenance Projects Completed in 2004.....	65
Table 14. Frequency of Pathogen Diagnosis at ODFW Hatcheries in 2004	66
Table 15. Tag Recoveries for ODFW Hatchery Stocks	67
Table 16. Marking and Tagging Summary for Calendar Year 2004	90
Table 17. Number of Tags Recovered by Fishery in 2004.....	97
Table 18. Status of Hatchery Genetic Management Plans	98
Table 19. Fish Feed Purchased in 2004	101
Table 20. Fish Sales Reported by Private Hatcheries in 2004.....	103
Table 21. Hatchery Produced Fish and Eggs Provided for Education or Research in 2004.....	104
Table 22. Stock Codes Used by ODFW Fish Propagation	105

Introduction

The mission of the Oregon Department of Fish and Wildlife (ODFW) is to protect and enhance Oregon's fish and wildlife and their habitats for use and enjoyment by present and future generations. The Department is charged by statute (ORS 506.036) to protect and propagate fish in the state. This includes direct responsibility for regulating harvest of fish, protection of fish, enhancement of fish populations through habitat improvement, and the rearing and release of fish into public waters. ODFW maintains hatcheries throughout the state to provide fish for program needs. Operation of these facilities is governed by the following:

- The Oregon Plan for Salmon and Watersheds, a comprehensive plan for the conservation of salmon and the protection of their habitat which coordinates the actions of all state agencies that affect aquatic resources.
- The Native Fish Conservation Policy, which provides a basis for managing hatcheries in balance with sustainable production of naturally produced native fish.
- The Fish Hatchery Management Policy, which provides general fish culture and facility guidelines and measures to maintain genetic resources of native fish populations spawned or reared in captivity.
- The Fish Health Management Policy, which describes measures that minimize the impact of fish diseases on the state's fish resources.

Information about the Oregon Plan can be viewed at <http://www.oregon-plan.org>. The complete texts of the Fish Hatchery Management Policy and the Native Fish Conservation Policy may be viewed at <http://www.dfw.state.or.us/fish/nfcp/>. In addition to these salmon and hatchery specific state policy and plan guidelines, ODFW's hatchery program works with and responds to local watershed interests; other federal, tribal, and state co-managers; federal and state Endangered Species Act (ESA) guidelines; and all other applicable federal, state and local laws and regulations.

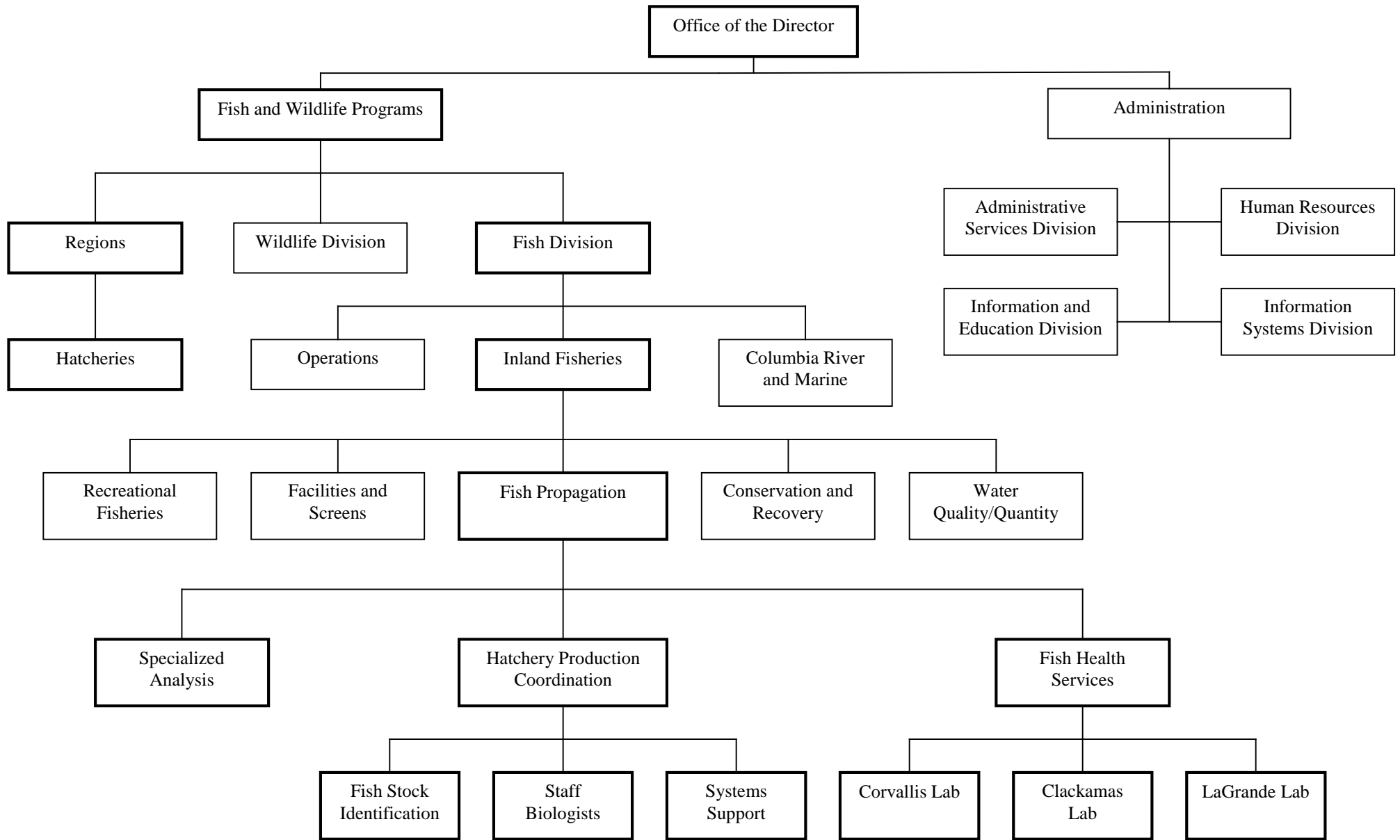
Organization

The Oregon Department of Fish and Wildlife is made up of an agency headquarters and four separate regions: Northwest, Southwest, Northeast, and High Desert. The headquarters consists of the Director's office and six divisions: Fish, Wildlife, Information and Education, Information Systems, Human Resources, and Administrative Services. The headquarters provides guidance and support to the regional offices, which in turn support the field offices and hatcheries within each region.

There are three programs under the Fish Division: Operations, Columbia River & Marine, and Inland Fisheries. Inland Fisheries is divided into the Fish Propagation, Recreational Fisheries, Facilities & Screens, Conservation & Recovery, and Water Quality/Quantity subprograms.

Fish Propagation oversees hatchery production coordination, fish health services, and specialized analyses. The hatchery production coordination group consists of fish identification, information support, and staff biologists. (See Figure 1)

Figure 1. Oregon Department of Fish and Wildlife Fish Propagation Organization



Facilities

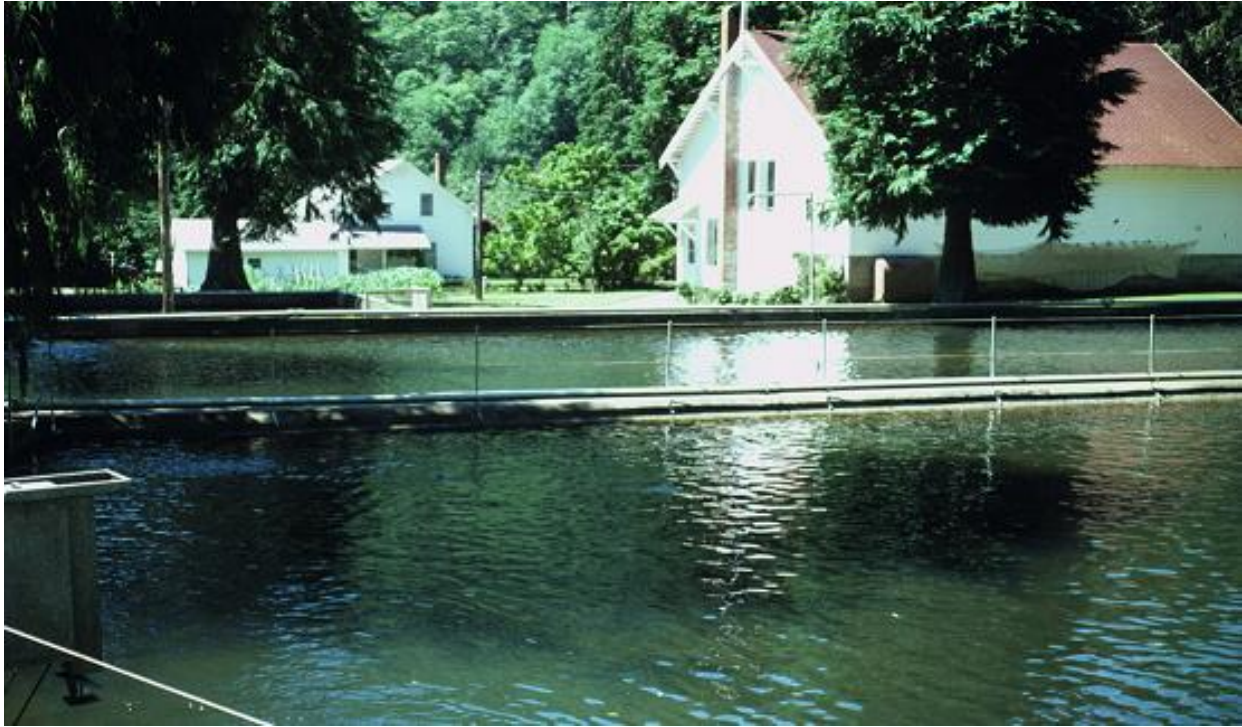


Figure 2. Cedar Creek Hatchery

ODFW operated 33 hatcheries (see Figure 3), 4 rearing ponds at locations separate from hatcheries, 8 acclimation facilities, and 9 adult trapping facilities in 2004. Many of these hatcheries have been in continuous operation from the early 1900's and have been upgraded to varying degrees as funding permits, while others began operation within the last 20 years. For a complete listing of Oregon's hatcheries see **Table 1 - Oregon Department of Fish and Wildlife Fish Hatcheries**. Further information can be found online in the Visitor's Guide on ODFW's Fishing Resources web page at: <http://www.dfw.state.or.us/resources/fishing/>.

These facilities range in production levels from large facilities like Cole M. Rivers, which produced 571,869 pounds of fish, to small facilities like Wallowa, which reared 20,434 pounds. (See **Table 2 – Pounds of Fish Raised at ODFW Facilities in 2004**).

Funding for the operation of these facilities comes from a variety of sources: 12 are federally funded, 9 are state funded, and 12 are funded by a combination of State and Federal funds. Annual operating costs for these facilities amounted to approximately \$22.9 million in 2004, of which \$16.2 million was provided by Federal agencies, \$3.1 million came from State general funds, and \$3.6 million came from other sources, including license fees, power producers and water users such as the City of Portland and Portland General Electric (See Figure 4).

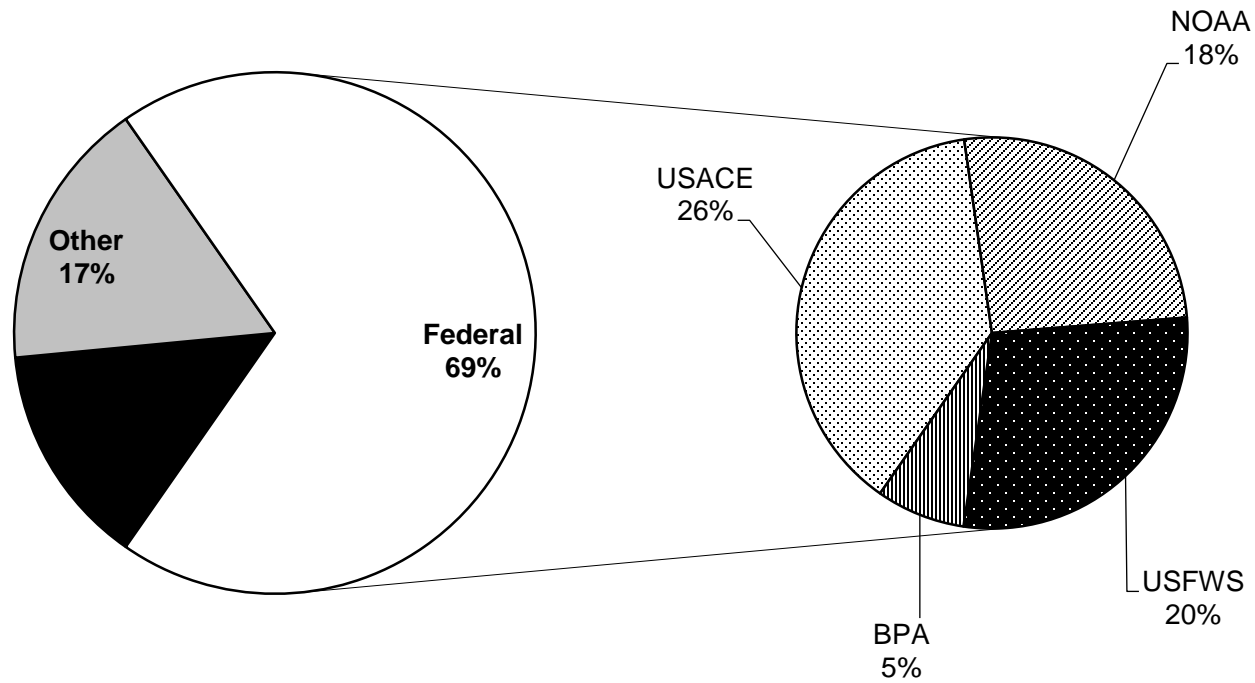
Figure 3.

Oregon Department of Fish and Wildlife

Fish Rearing Facilities



Figure 4. Funding Sources for Hatchery Operation, Maintenance and Support



BPA – Bonneville Power Administration
NOAA – National Oceanic and Atmospheric Administration

USACE – US Army Corps of Engineers
USFWS – US Fish and Wildlife Service

Fish Production



Figure 5. Spawning rainbow trout at Roaring River Hatchery. Left – spawning a female trout using air pressure to force out the eggs. Right – adding milt from a male trout to fertilize the eggs.

The fish rearing facilities of the Oregon Department of Fish and Wildlife raise 85 different stocks of salmon, steelhead, and trout; these fish are released into 468 water bodies, including 70 rivers and streams, and 398 lakes, ponds, and reservoirs. In 2004 they produced a total of 38,459,581 fish weighing 3,506,222 pounds at time of release (see **Table 3 – Numbers and Pounds of Fish Released in Calendar Year 2004**).

Programming

Adoption of the Native Fish Conservation Policy (NFCP) and Fish Hatchery Management Policy (FHMP) is changing the way ODFW programs hatchery production levels. Under these new policies, whether or not to produce hatchery fish, when and where they can be released, and the type and objective of hatchery programs will be established in the conservation plans, for specific areas and species, developed through implementing the NFCP. The FHMP will then provide guidance on how to implement the use of the hatchery tool under the NFCP conservation plans. The result of this process will be that each hatchery program will have a Hatchery Program Management Plan (HPMP) and/or Hatchery and Genetic Management Plan (HGMP) describing the objectives, goals, implementation, and monitoring of that specific hatchery program.

Consistent with the guidelines established in the conservation plans, and HPMPs and/or HGMPs, Salem headquarters fish propagation staff will prepare annual production schedules for each stock of fish based on program requests submitted by harvest management, district, STEP and research biologists. These schedules are then reviewed and revised at meetings with ODFW and co-manager staff, including regional, district, and hatchery managers. The final drafts are then sent to the hatcheries in time to begin planning for the upcoming production season. These schedules include the numbers of eggs needed to meet program requirements, numbers and sizes of fish to

be transferred or released, and tentative dates for transfers and releases, as well as numbers of fish to be marked and coded-wire tagged.

This information is used by the hatcheries to determine numbers of adults to be collected to provide the necessary numbers of eggs, incubation schedules for eggs and fry, allocation of pond space and water for rearing, feeding schedules to ensure that fish reach the proper size at the proper time, fish tagging and marking operations, fish hauling schedules for transfers and off-station releases, and timing of on-station releases.

Operations



Figure 6. Spawning fall chinook at Bonneville Hatchery.

On May 9, 2003 the Fish and Wildlife Commission adopted the Fish Hatchery Management Policy. The policy sets overall goals for the hatchery program, and calls for development of hatchery program management plans to meet those goals. It distinguishes two main types of programs: harvest hatchery programs, which operate to enhance or maintain fisheries without impairing naturally reproducing populations; and conservation hatchery programs, which operate to maintain or increase the number of naturally produced fish without reducing the productivity of naturally produced fish populations.

The policy sets guidelines for fish culture operations, hatchery facilities operations, program monitoring and evaluation, hatchery record keeping, and training of hatchery personnel.

In 2004, Hatchery Operations Plans were prepared for all ODFW hatcheries; the purpose of these plans is to provide general information on the hatchery programs and production goals. The Hatchery Operations Plans can be viewed online at the ODFW Fish Division web page: <http://www.dfw.state.or.us/resources/fishing/>.

Production Summaries

Throughout the rearing process, information is submitted by the hatcheries, allowing the progress of operations to be tracked. The information is stored electronically on the ODFW headquarters mainframe (See Information Support Section below). This information is summarized in periodic reports, which provide information on daily and annual propagation and associated activities to government agencies and the public.

Table 3 – Numbers and Pounds of Fish Released in Calendar Year 2004 shows the numbers and pounds of each species and stock of fish produced at the hatcheries in each region. A total of 38.5 million fish at a combined weight of 3.5 million pounds were reared and released into the waters of Oregon. Of these releases, approximately 32.8 million are anadromous fish (salmon and steelhead) and 5.7 million are resident fish (mainly trout). Figure 7 shows the overall trends in fish releases over the last ten years. In addition, ODFW hatcheries reared 8.4 million fish for release in Washington (see **Table 4 –Fish Produced by ODFW Hatcheries for Release Outside Oregon**).

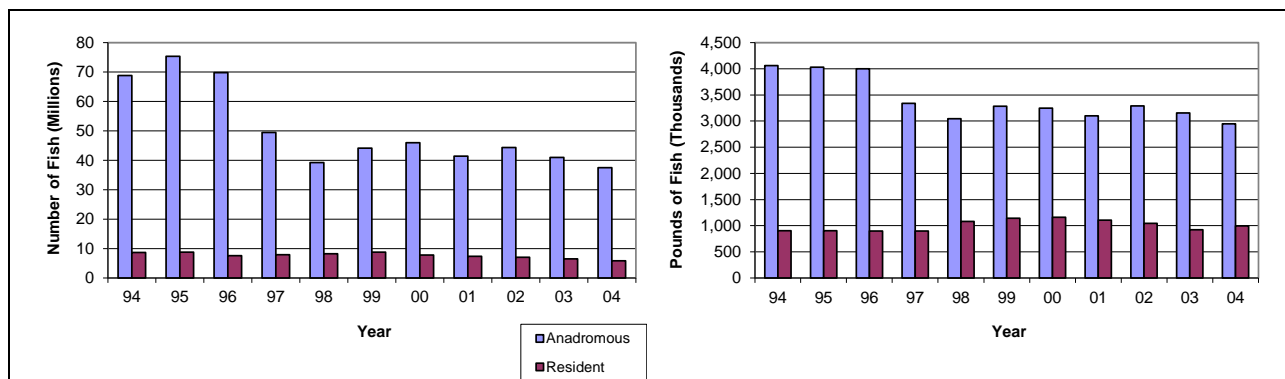


Figure 7. Numbers and pounds of fish released in Oregon from 1994 to 2004.

Table 5 – Numbers and Pounds of Fish Stocked by Watershed in Calendar Year 2004 shows the numbers and pounds of each species stocked in each of the 18 major watersheds in Oregon. A total of 43.3 million fish weighing 3.9 million pounds were stocked. These numbers are greater than those in Table 3 because this table includes fish from sources other than ODFW hatcheries, such as fish from federally operated hatcheries, fish supplied to ODFW by private hatcheries, and warm water game fish (see **Table 6 – Fish Produced Outside ODFW Hatcheries for Release in Oregon in 2004**, and **Table 7 - Fish Purchased by ODFW from Private Fish Propagators in 2004**).

Table 8 – Summary of Egg and Fry Rearing for Brood Year 2004 summarizes the egg and fry incubation statistics for each hatchery. Over 22,000 female fish were spawned to produce over 80 million eggs at ODFW hatcheries.

Table 9 – Fish Loss Reports for 2004 lists major egg and fish losses at ODFW hatcheries. The ODFW Hatchery Management Policy requires that a Fish Loss Report/Investigation be filed whenever 1,000 or more juvenile fish or 10 or more adult fish are accidentally lost in a single incident.

Table 10 – Adult Anadromous Fish Dispositions for 2004 summarizes the returns of adult fish (both wild and hatchery) of each species and stock to each adult collection site and the final disposition of those fish. A total of 64,422 coho, 57,431 fall chinook, 48,272 spring chinook, 47,872 summer steelhead, and 23,711 winter steelhead returned to ODFW hatcheries and trapping facilities. Figure 8 shows the total returns of anadromous adults to ODFW hatcheries over the previous ten years. (*Note: this table was updated on 2/29/2019 due to discrepancies in the original table.*)

Table 11 – Wild Adult Fish Collection and Disposition for 2004 displays the numbers of wild or unmarked fish handled at ODFW facilities. The manner in which these wild fish are handled depends on the management goal for each stock. In segregated programs, no wild fish are utilized as broodstock, and any wild fish that enter a collection site are released, either above the collection barrier or recycled to sites downstream. In integrated programs, a portion of the wild stock is incorporated into the hatchery program, while the major portion is released. In the case of steelhead, wild broodstock may be live-spawned and released. In some programs, only wild stock is utilized as broodstock.

Adult hatchery fish returning to collection facilities are used to meet program objectives and, if available, provide other ecological, societal and program benefits. Hatchery programs are managed as best possible to meet, but not exceed, program objectives for returning adult fish. Environmental variation and other factors outside of management control may result in significantly less or more fish than planned. Adult returns exceeding program objectives are managed to provide the maximum social and ecological benefit, consistent with watershed health and native fish conservation objectives, according to guidelines in the Fish Hatchery Management Policy. Dispositions of excess fish include:

- Providing fish for tribal ceremonial and subsistence use, consistent with agreements and tribal jurisdiction.
- Recycling and relocating fish for additional harvest opportunities.
- Allowing hatchery fish to spawn naturally at locations and numbers identified in existing fish management plans or new plans developed through the process outlined in *Native Fish Conservation Policy*.
- Placing carcasses in natural spawning and rearing areas to enhance nutrient recycling, consistent with fish pathology constraints and basin plans. During 2004, ODFW hatcheries supplied over 29,000 carcasses for stream nutrient enhancement (see **Table 10 – Adult Anadromous Fish Dispositions for 2004**). Further details on carcass placement for stream enrichment can be found online at: <http://rainbow.dfw.state.or.us/nrimp/information/>.

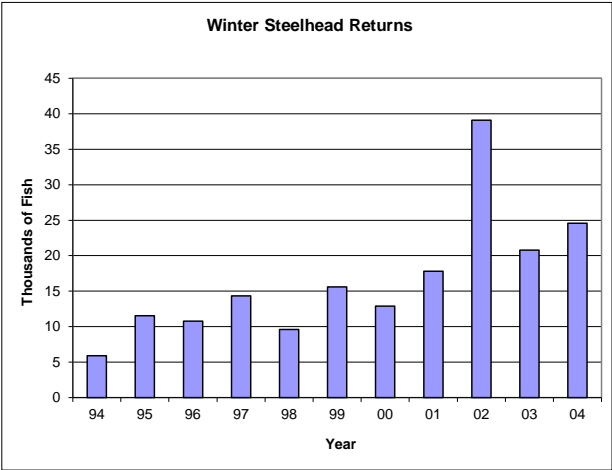
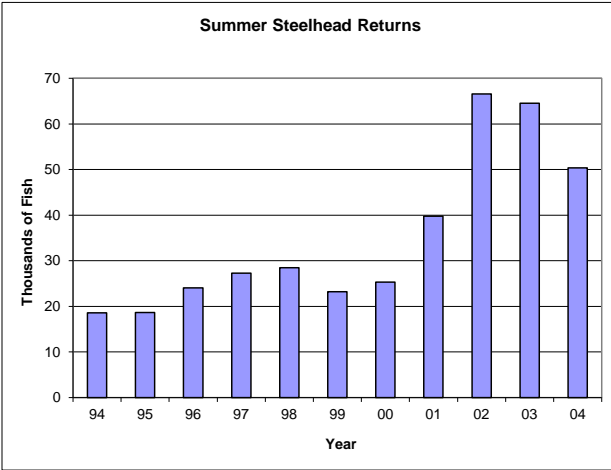
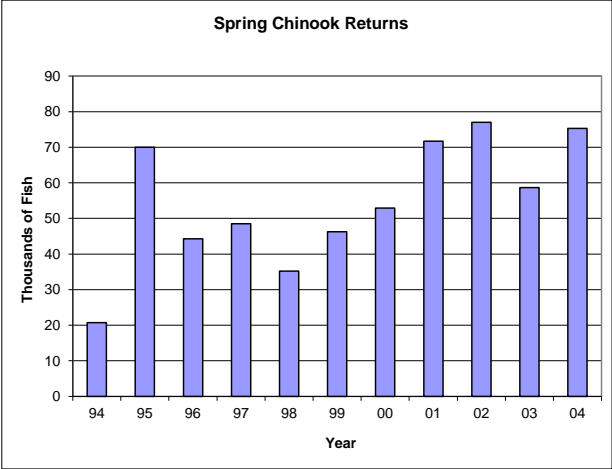
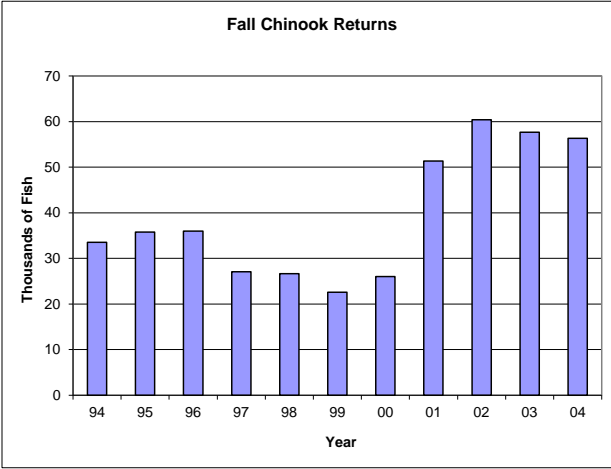
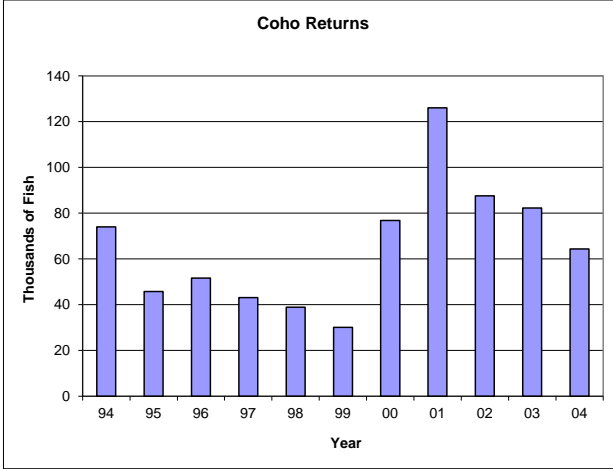


Figure 8. Total anadromous adult returns to ODFW hatcheries from 1994 to 2004.

- Providing for experimental, scientific or educational uses identified in management plans or other ODFW Watershed District agreements.
- Selling eggs and carcasses from selected facilities to provide revenues to support hatchery programs and facilities. **Table 12 – Egg and Carcass Sales Report for 2004** shows that 8,469 pounds of non-viable eggs were sold for over \$19,000, and a total of 52,377 fish weighing 594,861 pounds were sold for \$387,797.
- Providing fish to food share programs benefiting needy Oregonians. In 2004, approximately 40,000 fish were donated to local food banks and other charitable organizations.

Carcasses that are unsuitable for any of the above uses are processed for animal feed, rendered, or buried.

Triploid Trout Program



Figure 9. Triploid egg production at Roaring River Hatchery. *Left* – Propane on-demand water heater used to raise water temperature for shocking eggs. *Right* – Heated water being applied to eggs in incubation trays.

In 2004, ODFW began implementation of a pilot program to produce triploid trout, as the first step toward the goal of stocking only triploid trout in Oregon’s waterbodies. Triploid fish are produced by manipulating the eggs shortly after fertilization, using temperature or pressure, to cause the egg to retain three sets of chromosomes rather than the normal two (diploid). The advantage of stocking triploid fish is that they are sterile, so the genetic impact of stocked hatchery fish on natural fish populations can be greatly reduced. Sterile fish also live longer and can grow larger than diploid fish, providing increased angling opportunities.

In 2004, propane-fueled on-demand water heaters capable of providing water at 30°F above ambient temperature were installed at Oak Springs Hatchery and Roaring River Hatchery, and a third was purchased for installation at Wizard Falls Hatchery. Oak Springs Hatchery produced 596,643 triploid rainbow trout eggs and Roaring River Hatchery produced 9,096,364 triploid rainbow trout eggs by using heated water to shock the eggs. Plans are underway to begin production of triploid brook trout at Wizard Falls Hatchery.

Repair and Maintenance



Figure 10. Construction of new raceways at Butte Falls Hatchery.

Major repair and maintenance projects at ODFW hatcheries are overseen by the Facilities and Screens Section of the Fish Division. **Table 13 - Hatchery Maintenance Projects Completed in 2004** lists the projects that were undertaken at various sites throughout the year.

Technical Services

Fish Health

The Fish Health Management Policy calls for restricting the introduction, amplification, or dissemination of disease agents in hatchery produced fish and in natural environments. The Fish Health section is responsible for detecting disease agents from fish in ODFW hatcheries and from natural environments, for testing trout from private hatcheries for the parasite *Myxobolus cerebralis*, and for overseeing the containment and treatment of disease agents to minimize impacts on fish populations. It conducts regular fish health examinations, investigates excessive fish losses, prescribes preventative and therapeutic treatments, and maintains records of disease diagnoses.

The section operates three diagnostic laboratories located in Corvallis, Clackamas, and LaGrande. It employs four fish health specialists, a fish health specialist/virologist, four microbiologists and a lab technician. **Table 14 - Frequency of Pathogen Diagnosis at ODFW**



Figure 11. Dissected fish showing kidneys infected by Bacterial Kidney Disease.

Hatcheries in 2004 provides a summary of the parasitic, bacterial, fungal and viral agents identified in various species of fish.

Specialized Analyses

The person in this position acts as the agency expert on monitoring, evaluation, and assessment of the ODFW hatchery program. This involves retrieving and analyzing information from hatchery production data, fish tagging data, fishery harvest and management data, natural production data, and research data, and drawing conclusions concerning the long-term performance of hatchery programs and their contributions to ocean and freshwater fisheries. This information is then used by ODFW and other agencies to make decisions regarding these hatchery programs. **Table 15 – Tag Recoveries for ODFW Hatchery Stocks** provides a 10-year summary of tagged fish releases and recoveries for stocks of anadromous fish reared at ODFW hatcheries. Figure 11 shows total tag recovery percentages for coho, fall chinook, spring chinook, and summer steelhead based on the most recent ten year period for which complete data is available.

More detailed information on releases and recoveries of tagged fish and survival rates for hatchery stocks are presented in the latest Stock Assessment Annual Report, which can be viewed online at: <http://oregonstate.edu/Dept/ODFW/progress-reports/index.html>. This data can be retrieved from the Pacific State Marine Fisheries Commission online database at: <http://www.rmis.org/>.

Fish Stock Identification

The section provides technical services by marking juvenile salmon and trout at primarily state operated hatcheries. The types of marks used include fin excision, Coded Wire Tags (CWTs), Passive Integrated Transponder (PIT) tags, Visual Implant (VI) tags and various other experimental tags. In addition, the section's central CWT Recovery Laboratory located in

Clackamas extracts, decodes and verifies CWTs from adult fish sampled in Oregon’s fisheries and from escapement areas such as hatchery returns and spawning grounds. Program personnel operate and maintain sixteen mobile marking units, including electronic sorters, tag injectors and quality control devices. Most coastal research and management projects depend on representative marking and tagging of anadromous fish releases and are influenced by the section's operation. The program employs ten permanent and six seasonal/limited duration positions. Approximately 26 million fish are marked and/or tagged each year. Additionally about 40,000 CWTs are processed in the Recovery Laboratory. The annual operating budget is approximately \$1,600,000. **Table 16 – Marking and Tagging Summary for Calendar Year 2004** lists the numbers of each species and stock of fish marked and/or tagged at ODFW hatcheries. **Table 17 – Number of Tags Recovered by Fishery in 2004** shows the number of tags recovered and read for each fishery during the year.

As ODFW has moved toward the goal of mass marking all hatchery releases of salmon and steelhead, the work load of the Fish ID Section has increased substantially (see Figure 12). In order to help meet this goal, the Fish ID Section purchased three automated mass marking trailers, which were received in 2004.

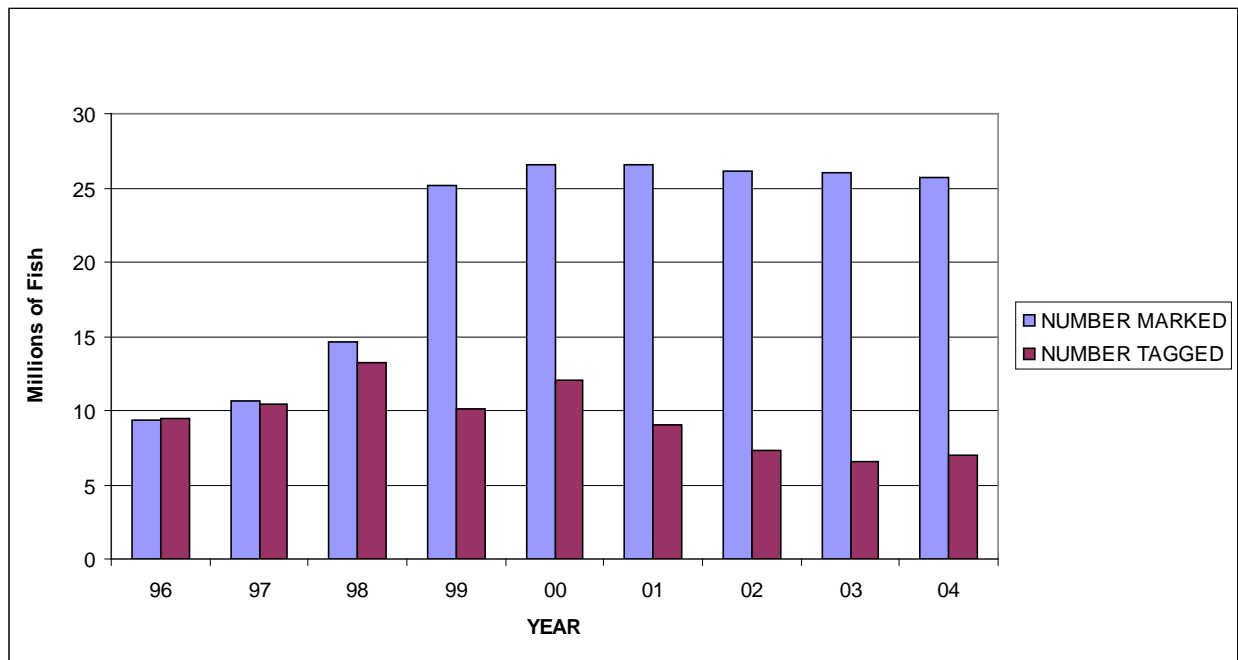


Figure 12. Total Numbers of Fish Marked and Tagged from 1996 to 2004.

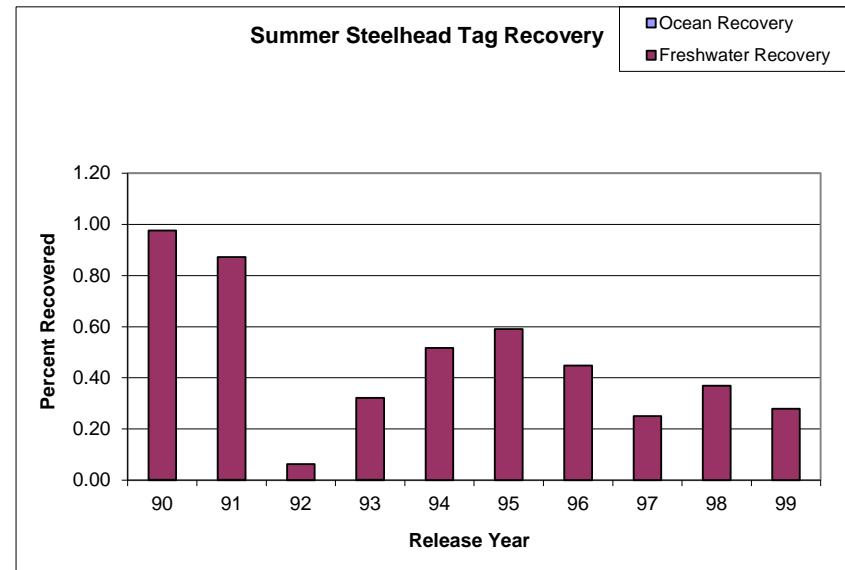
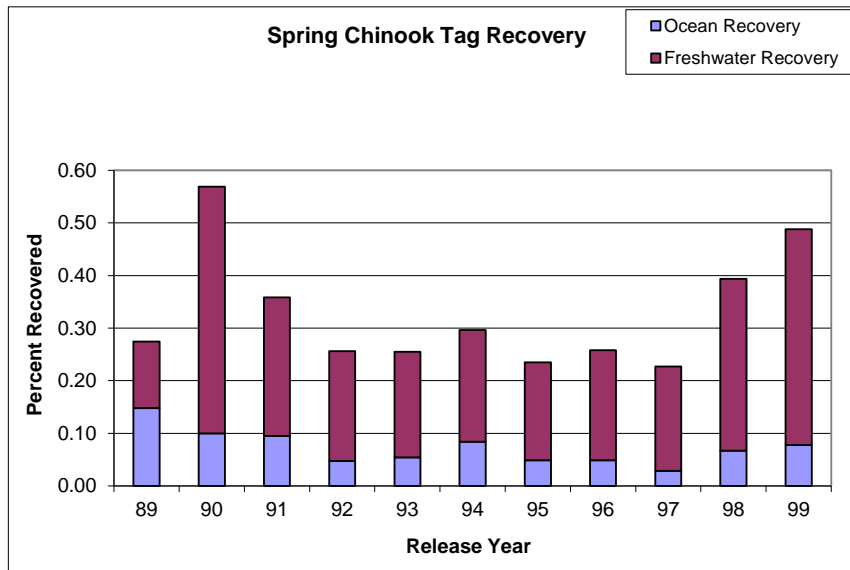
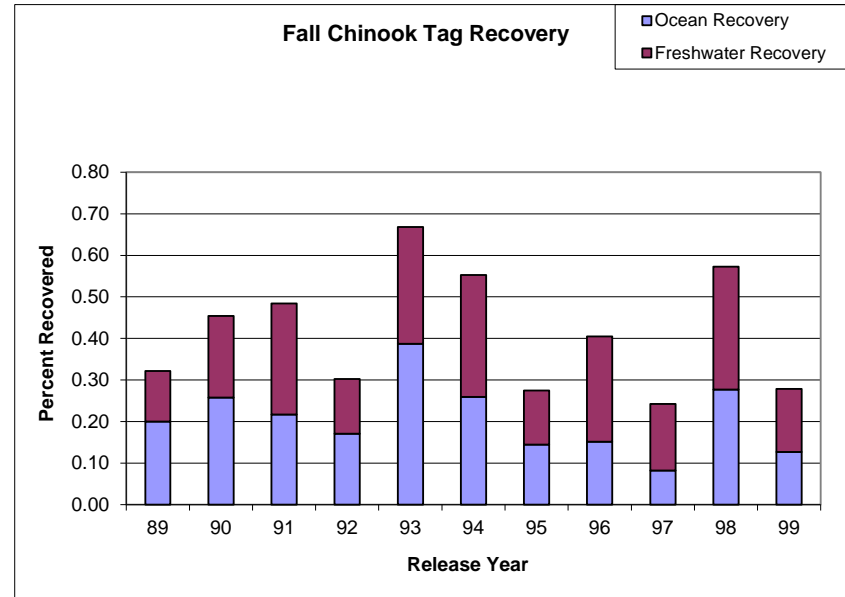
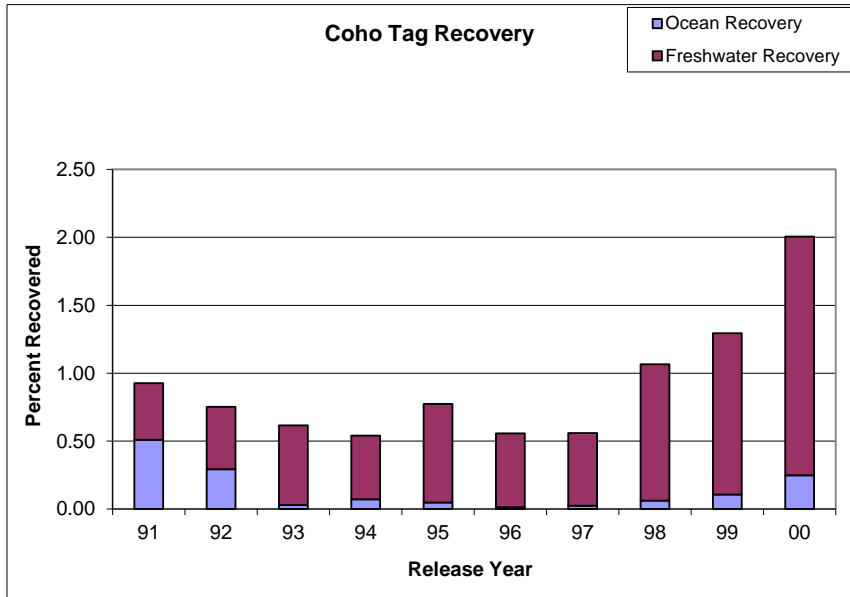


Figure 13. Trends in coded-wire tag recoveries from hatchery releases of coho, fall chinook, spring chinook, and summer steelhead. Percentages of tags recovered provide an estimate of percent survival.

Information Support

This section is responsible for developing and maintaining databases on the headquarters mainframe computer, which are used by Fish Propagation staff for recording, compiling, and analyzing data; preparing reports; and providing information to ODFW staff, other agencies, and the public.

The Hatchery Management Information System (HMIS) provides storage of information on hatchery fish culture operations, including adult fish handling, egg and fry incubation, fish rearing, fish transfers and liberations. Using desktop computers, hatchery personnel can enter this data directly into the mainframe, where it is compiled and error-checked by Information Support staff.

The Coded Wire Tag Database is used to record information from the Fish ID section on fish tagging and tag recovery. Information Services compiles this data and reports it to the Pacific States Marine Fisheries Commission. This data is also utilized by the Special Analyses section for assessment of hatchery programs.

The Information Support section also coordinates activities associated with Oregon's Salmon/Steelhead/Sturgeon/Halibut Sports Harvest cards. This includes maintaining the Sports Harvest database, compiling data, developing reports, coordinating the annual Sports Harvest Card lottery, and distributing prizes from private donors.

Administration

The Headquarters (Salem) fish propagation staff provide coordination of the statewide fish production program, including budget preparation and management; consultation with the Facilities and Screens staff on biological and fiscal matters relating to construction and maintenance projects; guidance, through the regional hatchery coordinators, of hatchery operations; representation of propagation programs in Fish Division, executive level, and Commission meetings; and handling of routine operational matters.

The listing of several salmon and steelhead stocks under the Endangered Species Act has involved the propagation staff in the review process for the Hatchery Genetic Management Plans (HGMP). These documents are required by NOAA Fisheries and provide a review of each hatchery's current operational components for each fish species reared at a facility. Following public and ODFW review, the HGMPs are submitted to NOAA Fisheries for final review and approval. HGMPs fulfill the Fish Hatchery Management Plan requirements for a hatchery program management plan. **Table 18 – Status of Hatchery Genetic Management Plans** lists the species and stocks affected by ESA listings and the current status of the HGMPs for those stocks.

Propagation staff work with the ODFW Procurement staff and with the Department of Administrative Services to request bids and award contracts for:

- The sale of non-viable salmon eggs and adult salmon carcasses. Eggs and adult salmon that are in excess of program needs are sold to vendors, generating over \$400,000 in sales in 2004 (see **Table 12 – Egg and Carcass Sales Report for 2004**).
- The purchase of trout from private hatcheries for stocking in state waters. The passage of Senate Bill 834 in 1999 and House Bill 3334 in 2001 required that 10% of the trout stocked

in Oregon must come from privately owned hatcheries. This program purchases approximately 127,000 fish, costing about \$140,000, that are stocked in 35 lakes, ponds and reservoirs throughout the state.

- The purchase of fish feeds. Five vendors contract to supply feeds of different types and sizes, designed to meet the needs of the different life stages of the species raised at ODFW hatcheries. In 2004, ODFW hatcheries purchased over 1,800 tons of feed at a cost of \$1.8 million. **Table 19 – Fish Feed Purchased in 2004** shows the amounts of feed purchased by each hatchery from the five vendors.

Another duty of Propagation staff is the issuing of licenses to private fish propagators for the operation of hatcheries and rearing facilities. In 2004 there were 39 licensed private facilities in Oregon which sold over 690,000 fish (see **Table 20 – Fish Sales Reported by Private Hatcheries in 2004**).

Propagation staff also answer requests from schools and other government agencies for fish or eggs for educational or research purposes. **Table 21 - Hatchery Produced Fish and Eggs Provided for Education or Research in 2004** lists the numbers of fish or eggs provided to each requestor.

Other duties include working with hatchery staff on the reporting of water quality and chemical usage data to the Department of Environmental Quality, compiling hatchery progress reports, recording feed purchase information, and overseeing the hatchery housing maintenance program.

Hatchery Related Research and Monitoring Projects

Bonneville/Ringold Hatchery Evaluation

The Bonneville/Ringold Hatchery Evaluation ongoing since the late 1970's has focused on evaluating catch, escapement, and survival of Bonneville Hatchery (and recently Ringold Hatchery) releases to mitigate for loss in 30,000 adult fall chinook from construction of John Day Dam. The goal of the project is to evaluate rearing and release strategies that will help to improve survival of fish for John Day Mitigation.

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Grande Ronde Basin Spring Chinook Captive Broodstock Program

This program was initiated as a conservation measure in response to severely declining runs of chinook salmon in the Grande Ronde Basin. Our goals are to prevent extinction of the three

populations; provide a future basis to reverse the decline in stock abundance of Grande Ronde River chinook salmon; and develop methods that will ensure a high probability of population persistence well into the future once the causes of basin wide population declines have been addressed. A comprehensive monitoring and evaluation program is underway to assess the performance of freshwater and saltwater treatments and determine the success of achieving management objectives. Associated objectives include:

- 1) Reduce the demographic risks associated with the decline of native wild chinook salmon populations in Lostine and upper Grande Ronde rivers and Catherine Creek.
- 2) Maintain genetic diversity of indigenous artificially propagated chinook salmon populations.
- 3) Maintain genetic diversity of wild populations.
- 4) Develop indigenous broodstocks for Grande Ronde chinook salmon hatchery program.
- 5) Modify facilities at Bonneville and Lookingglass fish hatcheries to provide capability to implement captive broodstock programs.
- 6) Assess captive broodstock program performance in achieving adult broodstock, smolt production, adult return goals and management objectives.
- 7) Determine optimum program operational criteria to ensure success of achieving objectives.
- 8) Assess the utility of captive broodstock programs for use in recovery of salmonids.

This captive broodstock project was initiated in the Grande Ronde basin in 1995. Spring chinook juveniles were collected from Catherine Creek and the Lostine River from 1995–2000 (1994–1999 cohorts) and from the upper Grande Ronde River in 1995, 1997, 1998 and 1999 (no fish were found in 1996 or 2000). Fish from 1995–2000 collections were reared at Lookingglass Hatchery until the smolt stage when they were transferred to facilities at Bonneville Hatchery and Manchester Marine Laboratory. This work was initially funded by the USFWS under LSRCP. It was transferred to the BPA Fish and Wildlife Program in FY1998 as Project 9801001.

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Relevant Web Page(s): Annual Reports: <http://www.cbfwa.org/cfsite/BPAProjectList.cfm>
Project Proposals: <http://www.cbfwa.org/projects/>

Hatchery Research Center

In conjunction with Oregon State University, ODFW is remodeling the site of a closed production hatchery into a state-of-the art hatchery research center. The facility is scheduled to open on July 1, 2005. The mission of the Hatchery Research Center is to understand the mechanisms that may create differences between hatchery and wild salmon and steelhead, develop approaches to best manage the differences in order to meet fishery and conservation objectives, and help Oregonians

understand the role and performance of hatcheries in responsibly using and protecting Oregon's native fish.

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Relevant Web Page(s): <http://www.dfw.state.or.us/HRC/main.html>

Hood River Steelhead Genetic Pedigree Project

There is a considerable interest in using hatcheries to speed the recovery of wild populations. The Bonneville Power Administration (BPA), under the authority of the Northwest Power Planning Act, is currently funding several hatchery programs in the Columbia Basin as off-site mitigation for impacts to salmon and steelhead caused by the Columbia River federal hydropower system. One such project is located on the Hood River, an Oregon tributary of the Columbia. These hatchery programs cost the region millions of dollars. However, whether such programs actually improve the status of wild fish remains untested. The goal of this project was to evaluate the effectiveness of the Hood River hatchery program as required by the Northwest Power Planning Council Fish and Wildlife Program, by the Oregon Plan for Coastal Salmonids, by NMFS ESA Section 4(d) rulings, and by the Oregon Department of Fish and Wildlife (ODFW) Wild Fish Management Policy (OAR 635-07-525 through 529) and the ODFW Hatchery Fish Gene Resource Management Policy (OAR 635-07-540 through 541). This work was funded by the Bonneville Power Administration through BPA Intergovernmental Contract 9245 (Project # 1988-053-12), and through ODFW Interagency agreement No. 001-2007s. The project was designed to address the following specific questions:

- (1) What is the mean and year-to-year variance in relative reproductive success (adult to adult production) of conservation hatchery-origin (H_{new}) and wild-origin (W) fish that spawned naturally in the Hood River?
- (2) Are "new" hatchery stocks closer in fitness to wild fish than "old" hatchery stocks?

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Northeast Oregon Fish Research

The goals of these studies are: 1) to evaluate the success of achieving Lower Snake River Compensation Plan objectives: 2) develop and recommend hatchery practices for LSRCP hatchery

production facilities in Oregon that will meet compensation requirements and management objectives for the production of spring chinook salmon and summer steelhead lost as a result of construction of the Lower Snake River dams; and 3) provide natural production and life history information to assist in recovery and monitoring of threatened salmonids in NE Oregon. We are conducting an ongoing comprehensive evaluation program for LSRCP activities in Oregon that address the following general guidelines:

1. Develop and evaluate operational procedures which will meet recovery and compensation goals as well as management objectives by priority.
2. Monitor operational practices to document hatchery production capabilities and challenges.
3. Monitor fish-rearing activities and results to document accomplishment of goals.
4. Coordinate research and management programs with hatchery capabilities.
5. Recommend hatchery production strategies that are consistent with endangered species recovery efforts.
6. Develop knowledge and information to guide recovery actions and to monitor recovery in the Grande Ronde and Imnaha river basins.

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Relevant Web Page(s): <http://pacific.fws.gov/Fisheries/LSRCP.htm>

Select Area Fishery Evaluation (SAFE)

The Columbia River Terminal Fisheries Research Project was initiated by BPA in 1993 at the recommendation of the Northwest Power Planning Council and re-titled the Select Area Fishery Evaluation (SAFE) Project in October 1997. The project is a 10-year comprehensive program to investigate the feasibility of terminal fisheries in Youngs Bay and other off-channel sites of the Columbia River in Oregon and Washington. Terminal fisheries are being explored as a means to increase the sport and commercial harvest of hatchery fish while providing greater protection for weak stocks of salmon and steelhead including those protected under the Endangered Species Act. The three phases of the SAFE project are: initial site investigation, initiation of smolt production and releases at the most suitable sites, and increasing fish production to full capacity at all sites.

During 1993-1994, eight potential sites (five in Oregon and three in Washington) were identified as feasible locations for the development of net-pen rearing facilities and fisheries for returning adult salmon. Each site was evaluated for rearing and acclimation potential, site accessibility, capacity for fishers, and the potential to impact non-local salmonid stocks. During 1994-1996, water quality and benthic monitoring surveys were conducted to establish baseline conditions prior to the establishment of any net pens. During the same time period, extensive test fishing was conducted at each site prior to the release of any juveniles to determine the seasonal variation in

the use of each site by non-local salmonids as well as appropriate fishing boundaries and time frames for fisheries. Based upon the initial site investigation, Deep River and Steamboat Slough in Washington and Tongue Point and Blind Slough (in addition to Youngs Bay) in Oregon were selected as suitable sites for fish rearing and fisheries.

Experimental releases of coho were made from Deep River, Tongue Point, and Blind Slough in 1995 and from Steamboat Slough in 1999. Coho were used during the initial production phase because of greater availability and the shorter maturation cycle. Spring chinook were subsequently reared and released from Youngs Bay, Blind Slough, Tongue Point, and Deep River. Two stocks of fall chinook (upriver bright and Cole Rivers or select area bright stock) were evaluated at all Oregon sites. Upriver bright fall chinook releases were discontinued in 1998 because of low survival and high stray rates.

Experimental fishing seasons were established at each site to harvest the initial adult returns from the experimental releases. Fishery landings are extensively sampled to determine stock and age composition and recover coded wire tags. Sampling of the recreational fisheries, spawning grounds, and at the hatcheries provides additional tag recovery data that is used to monitor survival rates, stray data, and fishery contributions to determine if project goals are being met. Production, acclimation, and release strategies have varied over time at each site as empirical results from CWT releases have been analyzed to determine which methods have the best survival, highest fishery contribution, and lowest stray rate. For all sites combined, annual SAFE project smolt releases during 1993-2004 have ranged between 2.0-4.2 million coho, 0.4-1.8 million spring chinook, 0.1-0.6 million upriver bright fall chinook, and 0.1-1.4 million select area bright fall chinook.

The Select Area fisheries program produces high quality hatchery salmon which return to terminal fishing sites and are available for harvest by sport and commercial fishers. The economic value of the fishery, as measured in ex-vessel dollars, has increased from approximately \$198,000 in 1996 to 1.2 million in 2004. The program has demonstrated high survival rates for smolts produced by the project, high harvest rates and low stray rates for returning adults, low impacts to non-local salmonids, and high economic value to the fishers and the communities that benefit from the fisheries. Plans for the third phase of the project, maximizing production releases for all species at all sites has been limited by available funding.

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Relevant Web Page(s): Annual Reports: <http://www.cbfwa.org/cfsite/BPAProjectList.cfm>
Project Proposals: <http://www.cbfwa.org/projects/>

Stock Assessment Coded-Wire Tagging Projects

This includes 2 federally funded contracts that pay for coded-wire tagging production releases of salmon from ODFW hatcheries. One contract is funded by BPA and the other is funded by NOAA Fisheries. Both projects insure all ODFW hatchery coho and chinook production releases have a representative CWT group included in the release. Goals for both projects are to:

- (1) Monitor adult production from hatchery releases;
- (2) Evaluate rearing and release strategies that will help to improve the survival rate of hatchery-produced smolts; and
- (3) Establish a comprehensive long-term database that will provide information needed to address issues of biology, allocation, and conservation.

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Relevant Web Page(s):

Project Description: <http://oregonstate.edu/Dept/ODFW/other/tag/index.html>

Annual Reports: <http://oregonstate.edu/Dept/ODFW/progress-reports/index.html>

BPA Project Proposals: <http://www.cbfwa.org/projects/>

CWT Data: <http://www.rmis.org/>

Umatilla Hatchery Evaluation

Construction of Umatilla Hatchery was completed in 1991. The hatchery is the foundation for rehabilitating chinook salmon and enhancing steelhead in the Umatilla River, and is expected to contribute significantly to the Northwest Power Planning Council's goal of doubling salmon production in the Columbia Basin. Hatchery production goals and a comprehensive monitoring and evaluation plan were presented in the Umatilla Hatchery Master Plan. The comprehensive plan for monitoring and evaluation of Umatilla Hatchery was approved by the Northwest Power Planning Council as a critical adaptive management guide for fisheries rehabilitation in the Umatilla River. Monitoring and evaluation will be used to increase knowledge about uncertainties inherent in the fisheries rehabilitation and will complement the developing systematic monitoring and evaluation program. Monitoring and evaluation goals for this BPA funded project include:

- (1) Provide information and recommendations for the culture and release of hatchery fish, harvest regulations, and natural escapement to accomplish long-term natural and hatchery production goals in the Umatilla River Basin that are consistent with provisions of the Council's Columbia River Basin Fish and Wildlife Program.
- (2) Assess the success of achieving the management objectives in the Umatilla River basin that are presented in the Master Plan and the Comprehensive Rehabilitation Plan.

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Relevant Web Page(s): Annual Reports: <http://www.cbfwa.org/cfsite/BPAProjectList.cfm>
Project Proposals: <http://www.cbfwa.org/projects/>

Umpqua Coho Genetic Pedigree Project

There is a considerable interest in using hatcheries to speed the recovery of wild populations. However the value of such programs is untested. Substantial literature exists that indicates hatchery programs may pose high risks to wild populations, rather than aid them. If the risks are real, hatcheries may *interfere* with recovery, rather than speed it. Until recently, analytical methods to explore the critical questions and risks associated with hatchery programs were unavailable because we were not able to track lineages in streams once hatchery and wild fish were allowed to spawn together. New molecular genetics methods now allow us to use DNA fingerprints to pedigree entire populations under some circumstances and develop lineages that continue for multiple generations under natural spawning conditions. The objective of this study is to conduct an experimental supplementation project for coho salmon in the Calapooya, tributary of the Umpqua River, using the following hatchery scenarios:

- a. Rock Creek hatchery stock released as smolts (a “conventional hatchery program”);
- b. Rock Creek hatchery stock released as unfed fry (a low-intervention hatchery program);
- c. First-generation wild-type hatchery stock released as smolts; and
- d. First-generation wild-type hatchery stock released as unfed fry.

This project was initiated in 2001 in cooperation with the Oregon Watershed Enhancement Board, Oregon Wildlife Heritage Foundation, Oregon State University Coastal Oregon Marine Experiment Station, Restoration and Enhancement Program, and ODFW volunteers.

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Willamette Salmonid Inventory Project

The Willamette Salmonid Inventory Project was created in 2002 in response to the NMFS Biological Opinion on hatchery operations in the Willamette Valley. Project activities fall into four broad categories: 1) trapping of adults, 2) sampling of hatchery returns, 3) monitoring natural production, and 4) fishery assessments (creel surveys). Project objectives include:

Objective 1) Manage programs to minimize potential interbreeding of hatchery reared fish and listed salmon and steelhead in the Columbia River Basin. The result would be to reduce natural spawning of hatchery-origin spring chinook with existing spring chinook salmon populations.

Objective 2) Quantify the effects of hatchery broodstock collection on listed spring chinook and winter steelhead in the Upper Willamette River ESU.

Objective 3) Minimize potential negative impacts to listed salmon and steelhead in the Upper Willamette Basin from operation of the hatcheries.

Objective 4) Monitor and evaluate each respective hatchery program in the Upper Willamette River ESU.

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Willamette Spring Chinook Research

This Willamette Spring Chinook Project hopes to help managers collect information that will lead to a management strategy for spring chinook salmon in the Willamette and Sandy basins that (1) protects the genetic integrity of natural populations, and (2) maintains sport and commercial fisheries and the programs that support them. A research proposal was created in 1996 with five objectives:

Objective 1) Determine the numerical status of existing natural populations and develop methods for monitoring that status. Determine if these populations belong to one or more gene conservation groups.

Objective 2) Decrease mortality of wild fish in fisheries by determining feasibility of catch and release sport fisheries and by exploring options for reducing mortality in commercial fisheries.

Objective 3) Reduce the risk that large hatchery programs pose for natural populations by developing ways of decreasing interactions between wild and hatchery chinook in streams and by determining need for more wild fish in hatchery broodstocks.

Objective 4) Protect existing natural production areas by defining temporal and spatial use patterns by life stages of spring chinook and identify the habitat/environmental attributes conducive to that use.

Objective 5) Increase natural production by improving habitat in existing production areas and by re-establishing populations where they were found historically.

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Relevant Web Page(s): <http://oregonstate.edu/Dept/ODFW/freshwater/chinook/Introduction.htm>

Table 1. Oregon Department of Fish and Wildlife Fish Hatcheries

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CASCADE
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Fax: 541-374-8191
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ELK RIVER
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Fax: 541-332-840
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FALL RIVER
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Fax: 541-593-3348
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Clatskanie, OR 97016
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IRRIGON

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LEABURG

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LOOKINGGLASS

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MARION FORKS

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Table 2. Pounds of Fish Raised at ODFW Facilities in 2004

Hatchery	Species	Pounds Received	Pounds Liberated	Pounds Acclimated	Pounds Transferred	Pounds Shipped	Pounds Destroyed	Total Pounds Produced
ALSEA	Rainbow Trout	0	88,699	0	455	0	0	89,154
	Winter Steelhead	0	23,152	5,099	0	0	766	29,017
	Total	0	111,851	5,099	455	0	766	118,171
BANDON	Coho	1,200	1,212	0	0	0	0	12
	Fall Chinook	0	0	7,950		0	0	7,950
	Rainbow Trout	1,980	3,874	0	0	0	0	1,894
	Winter Steelhead	0	4,890	19,245	0	0	120	24,255
	Total	3,180	9,976	27,195	0	0	120	34,111
BIG CANYON	Summer Steelhead	48,800	51,690	0	0	0	0	2,890
BIG CREEK	Coho	0	45,112	0	0	0	0	45,112
	Fall Chinook	0	80,732	26,607	3,897	0	0	111,236
	Winter Steelhead	0	10,628	0	9,166	0	0	19,794
	Total	0	136,472	26,607	13,063	0	0	176,142
BLACKBERRY ACC	Spring Chinook	2,205	4,259	0	0	0	0	2,054
	Summer Steelhead	8,029	8,084	0	0	0	0	55
	Total	10,234	12,343	0	0	0	0	2,109
BONNEVILLE	Coho	51,428	89,535	0	0	11	0	38,118
	Fall Chinook	0	102,790	42,590	0	28,693	0	174,073
	Spring Chinook	918	0	0	0	0	0	-918
	Rainbow Trout	952	4,095	0	0	0	0	3,143
	Summer Steelhead	0	700	32,340	3,090	3	0	36,133
	Winter Steelhead	481	1,091	11,165	0	0	0	11,775
	Total	53,779	198,211	86,095	3,090	28,707	0	262,324
BUTTE FALLS	Coho	0	4,920	2,750	8,560	0	0	16,230
	Fall Chinook	0	0	6,050	0	0	0	6,050
	Rainbow Trout	3,170	39,399	0	4,844	0	0	41,073
	Total	3,170	44,319	8,800	13,404	0	0	63,353
CANYONVILLE	Winter Steelhead	9,041	0	0	0	0	0	-9,041
CASCADE	Coho	0	0	61,926	35,423	36,045	0	133,394
CATHERINE CR	Spring Chinook	7,843	7,000	0	0	0	0	-843
CEDAR CREEK	Fall Chinook	0	0	0	298	0	0	298
	Rainbow Trout	1,400	3,020	0	308	0	0	1,928
	Spring Chinook	0	9,592	0	0	0	0	9,592
	Summer Steelhead	630	14,085	0	0	0	0	13,455
	Winter Steelhead	0	15,820	0	667	0	0	16,487
	Total	2,030	42,517	0	1,273	0	0	41,760

Table 2. Pounds of Fish Raised at ODFW Facilities in 2004

Hatchery	Species	Pounds Received	Pounds Liberated	Pounds Acclimated	Pounds Transferred	Pounds Shipped	Pounds Destroyed	Total Pounds Produced
CLACKAMAS	Spring Chinook	54,241	83,166	22,450	0	0	0	51,375
	Summer Steelhead	24,350	25,303	0	0	0	0	953
	Winter Steelhead	18,340	21,070	0	223	0	0	2,953
	Total	96,931	129,539	22,450	223	0	0	55,281
COLE RIVERS	Coho	0	21,445	4,760	0	0	0	26,205
	Fall Chinook	0	0	10,472	0	0	0	10,472
	Rainbow Trout	1,842	102,787	0	32,324	0	0	133,269
	Spring Chinook	0	217,845	0	0	0	0	217,845
	Summer Steelhead	0	49,039	0	0	0	0	49,039
	Winter Steelhead	0	99,806	35,233	0	0	0	135,039
Total	1,842	490,922	50,465	32,324	0	0	571,869	
DEXTER POND	Spring Chinook	22,187	179,220	0	0	0	0	157,033
	Summer Steelhead	8,390	24,882	0	0	0	0	16,492
	Total	30,577	204,102	0	0	0	0	173,525
ELK RIVER	Fall Chinook	0	42,724	0	0	0	0	42,724
	Rainbow Trout	204	3,078	0	0	112	0	2,986
	Winter Steelhead	0	7,738	0	0	0	0	7,738
	Total	204	53,540	0	0	112	0	53,448
FALL RIVER	Cutthroat Trout	500	1,690	0	505	0	0	1,695
	Rainbow Trout	13,003	31,574	0	15,564	0	0	34,135
	Total	13,503	33,264	0	16,069	0	0	35,830
GNAT CREEK	Spring Chinook	0	0	0	34,002	0	0	34,002
	Winter Steelhead	3,377	6,560	0	0	0	0	3,183
	Total	3,377	6,560	0	34,002	0	0	37,185
UPPER HERMAN CR	Coho	12,445	0	0	76,640	0	0	64,195
IMNAHA POND	Spring Chinook	15,301	15,267	0	0	0	0	-34
IRRIGON	Rainbow Trout	22,871	28,631	0	0	0	0	5,760
	Spring Chinook	0	0	1,604	0	0	0	1,604
	Summer Steelhead	0	20,429	203,660	0	0	0	224,089
	Winter Steelhead	0	0	39,655	0	0	0	39,655
	Total	22,871	49,060	244,919	0	0	0	271,108
KLAMATH	Brown Trout	0	6,990	0	0	0	0	6,990
	Cutthroat Trout	0	2,675	0	0	0	0	2,675
	Rainbow Trout	0	40,921	0	8,227	0	0	49,148
	Total	0	50,586	0	8,227	0	0	58,813

Table 2. Pounds of Fish Raised at ODFW Facilities in 2004

Hatchery	Species	Pounds Received	Pounds Liberated	Pounds Acclimated	Pounds Transferred	Pounds Shipped	Pounds Destroyed	Total Pounds Produced
KLASKANINE	Fall Chinook	30,504	32,959	0	0	0	0	2,455
	Winter Steelhead	5,789	8,910	0	0	0	0	3,121
	Total	36,293	41,869	0	0	0	0	5,576
LOWER HERMAN CR	Coho	11,276	0	24,653	0	0	0	13,377
LEABURG	Cutthroat Trout	44	45	0	0	0	1,530	1,531
	Rainbow Trout	23,935	133,651	0	0	0	33,017	142,733
	Summer Steelhead	2,685	23,753	0	0	0	3,177	24,245
	Total	26,664	157,449	0	0	0	37,724	168,509
LITTLE SHEEP CR	Summer Steelhead	39,725	44,064	0	0	0	0	4,339
LOOKINGGLASS	Spring Chinook	3,218	2,516	39,959	937	0	0	40,194
MARION FORKS	Brook Trout	14	12	0	0	0	0	-2
	Cutthroat Trout	28	27	0	4	0	0	3
	Rainbow Trout	1,662	4,204	0	0	0	0	2,542
	Spring Chinook	4,230	3,706	49,982	51,378	20	0	100,856
	Total	5,934	7,949	49,982	51,382	20	0	103,399
MCKENZIE	Spring Chinook	0	127,527	0	0	37	364	127,928
MINTO POND	Spring Chinook	49,982	49,982	0	0	0	0	0
	Summer Steelhead	30,015	31,820	0	0	0	0	1,805
	Total	79,997	31,820	0	0	0	0	-48,177
NEHALEM	Coho	0	6,841	6,650	0	0	246	13,737
	Fall Chinook	518	1,420	0	0	0	0	902
	Rainbow Trout	121	36,250	0	211	650	0	36,990
	Winter Steelhead	0	21,952	0	0	0	492	22,444
	Total	639	66,463	6,650	211	650	738	74,073
OAK SPRINGS	Cutthroat Trout	0	132	0	187	0	147	466
	Rainbow Trout	0	115,954	0	10,893	0	0	126,847
	Summer Steelhead	0	4,447	12,329	7,116	0	727	24,619
	Winter Steelhead	223	0	17,197	0	0	0	16,974
	Total	223	120,533	29,526	18,196	0	874	168,906
OXBOW	Coho	0	0	0	11,276	0	0	11,276
	Sockeye	712	0	0	0	0	0	-712
	Spring Chinook	0	0	0	4,477	0	312	4,789
	Winter Steelhead	0	0	0	481	0	0	481
	Total	712	0	0	16,234	0	312	15,834

Table 2. Pounds of Fish Raised at ODFW Facilities in 2004

Hatchery	Species	Pounds Received	Pounds Liberated	Pounds Acclimated	Pounds Transferred	Pounds Shipped	Pounds Destroyed	Total Pounds Produced
ROARING RIVER	Rainbow Trout	0	104,513	0	5,644	54	0	110,211
	Summer Steelhead	2,019	9,610	13,265	920	0	1,031	22,807
	Winter Steelhead	625	14,400	0	0	0	0	13,775
	Total	2,644	128,523	13,265	6,564	54	1,031	146,793
ROCK CREEK	Coho	9,388	10,381	0	0	0	0	993
	Rainbow Trout	9,606	7,989	0	0	0	0	-1,617
	Spring Chinook	0	54,786	0	0	0	0	54,786
	Summer Steelhead	0	23,020	0	0	0	0	23,020
	Winter Steelhead	0	0	18,091				18,091
Total	18,994	96,176	18,091	0	0	0	95,273	
ROUND BUTTE	Spring Chinook	0	33,517	7,234	2,401	0	453	43,605
	Summer Steelhead	360	56,465	0	0	0	67	56,172
	Total	360	89,982	7,234	2,401	0	520	99,777
SALMON RIVER	Coho	0	20,538	0	828	0	299	21,665
	Fall Chinook	0	15,657	7,535	0	0	528	23,720
	Summer Steelhead	0	9,510	0	0	0	0	9,510
	Total	0	45,705	7,535	828	0	827	54,895
SANDY	Coho	0	48,158	20,200	0	0	0	68,358
	Spring Chinook	18,485	18,751	0	0	0	0	266
	Summer Steelhead	12,035	13,145	0	0	0	0	1,110
	Winter Steelhead	32,480	35,115	0	0	0	0	2,635
	Total	63,000	115,169	20,200	0	0	0	72,369
SOUTH SANTIAM	Rainbow Trout	1,515	1,735	0	0	0	0	220
	Spring Chinook	42,013	80,835	0	0	0	389	39,211
	Summer Steelhead	1,694	35,019	8,740	960	0	773	43,798
	Total	45,222	117,589	8,740	960	0	1,162	83,229
TRASK	Coho	6,650	6,983	0	0	0	0	333
	Fall Chinook	0	6,668	0	519	0	0	7,187
	Rainbow Trout	211	0	0	0	0	0	-211
	Spring Chinook	3,180	7,024	0	3,284	0	0	7,128
	Summer Steelhead	0	4,880	0	630	0	0	5,510
	Winter Steelhead	0	5,810	1,440	0	0	0	7,250
	Total	10,041	31,365	1,440	4,433	0	0	27,197
TRASK POND	Spring Chinook	5,825	10,625	0	3,180	0	0	7,980
TUFFY CREEK	Spring Chinook	584	4,763	0	0	0	0	4,179
	Winter Steelhead	667	10,245	1,520	0	0	0	11,098
	Total	1,251	15,008	1,520	0	0	0	15,277

Table 2. Pounds of Fish Raised at ODFW Facilities in 2004

Hatchery	Species	Pounds Received	Pounds Liberated	Pounds Acclimated	Pounds Transferred	Pounds Shipped	Pounds Destroyed	Total Pounds Produced
UMATILLA	Fall Chinook	0	8,020	4,179	0	0	0	12,199
	Spring Chinook	0	0	27,180	0	0	0	27,180
	Summer Steelhead	0	10,550	18,370	0	0	0	28,920
	Total	0	18,570	49,729	0	0	0	68,299
WALLOWA	Spring Chinook	15	0	87	0	0	0	72
	Summer Steelhead	115,135	128,268	0	0	0	0	13,133
	Total	115,150	128,268	87	0	0	0	13,205
WILLAMETTE	Cutthroat Trout	118	82	0	40	0	0	4
	Rainbow Trout	8,735	67,404	0	2,696	0	0	61,365
	Spring Chinook	0	68,120	16,520	67,060	0	599	152,299
	Summer Steelhead	1,318	0	8,010	8,390	0	35	15,117
	Winter Steelhead	0	0	0	625	0	0	625
	Total	10,171	135,606	24,530	78,811	0	634	229,410
WIZARD FALLS	Atlantic Salmon	0	3,570	0	0	0	0	3,570
	Brook Trout	0	4,142	0	14	0	150	4,306
	Cutthroat Trout	546	556	0	500	0	0	510
	Kokanee	0	5,290	0	0	0	697	5,987
	Rainbow Trout	3,188	19,311	0	14,377	0	1,643	32,143
	Total	3,734	32,869	0	14,891	0	2,490	46,516
STATEWIDE TOTALS	Atlantic Salmon	0	3,570	0	0	0	0	3,570
	Brook Trout	14	4,154	0	14	0	150	4,304
	Brown Trout	0	6,990	0	0	0	0	6,990
	Coho	92,387	255,125	120,939	132,727	36,056	545	453,005
	Cutthroat Trout	690	8,793	0	750	0	1,827	10,680
	Fall Chinook	518	258,011	105,383	4,714	28,693	528	396,811
	Kokanee	0	5,290	0	0	0	697	5,987
	Rainbow Trout	94,395	837,089	0	95,543	816	34,660	873,713
	Spring Chinook	230,227	928,519	165,016	166,719	57	2,117	1,032,201
	Summer Steelhead	295,185	588,763	296,714	21,106	3	5,810	617,211
	Winter Steelhead	71,023	287,187	148,645	11,162	0	1,378	377,349
	Total	784,439	3,183,491	836,697	432,735	65,625	47,712	3,781,821

Table 3. Numbers and Pounds of Fish Released in Calendar Year 2004

NORTHWEST HATCHERY	REGION SPECIES	STOCK	FRY		FINGERLING		SMOLT		TOTAL STOCKED	
			NUMBER	POUNDS	NUMBER	POUNDS	NUMBER	POUNDS	NUMBER	POUNDS
Alsea	Rainbow Trout	072	0	0	0	0	190,506	88,666	190,506	88,666
	Winter Steelhead	043	0	0	70,281	3,180	90,534	17,052	160,815	20,232
	Winter Steelhead	043W	0	0	5,886	356	14,384	2,564	20,270	2,920
Big Creek	Coho	013	0	0	0	0	516,942	45,112	516,942	45,112
	Fall Chinook	013	0	0	5,887,836	80,733	0	0	5,887,836	80,733
	Winter Steelhead	013	0	0	0	0	63,766	10,628	63,766	10,628
Bonneville	Coho	014	0	0	0	0	1,150,280	89,536	1,150,280	89,536
	Fall Chinook	095	0	0	4,559,947	102,792	0	0	4,559,947	102,792
	Rainbow Trout	072	0	0	0	0	1,992	4,095	1,992	4,095
	Summer Steelhead	024	0	0	28,000	700	0	0	28,000	700
	Winter Steelhead	011W	0	0	19,275	470	5,901	621	25,176	1,091
Cedar Creek	Rainbow Trout	072	0	0	0	0	3,545	3,019	3,545	3,019
	Spring Chinook	047	0	0	5,073	57	113,395	9,534	118,468	9,591
	Summer Steelhead	047	0	0	0	0	76,174	14,080	76,174	14,080
	Winter Steelhead	047	0	0	0	0	49,612	8,765	49,612	8,765
	Winter Steelhead	047W	0	0	0	0	45,254	7,047	45,254	7,047
Clackamas	Spring Chinook	011	0	0	0	0	105,301	11,700	105,301	11,700
	Spring Chinook	019	0	0	303,620	16,962	571,085	54,504	874,705	71,466
	Summer Steelhead	024	0	0	0	0	159,409	25,303	159,409	25,303
	Winter Steelhead	122	0	0	0	0	102,175	21,070	102,175	21,070
Dexter Pond	Spring Chinook	022	0	0	0	0	1,497,381	179,220	1,497,381	179,220
	Summer Steelhead	024	0	0	0	0	119,720	24,882	119,720	24,882
Fall Creek	Rainbow Trout	072	0	0	0	0	163,332	57,982	163,332	57,982
Gnat Creek	Winter Steelhead	013	0	0	0	0	39,294	6,560	39,294	6,560
Klaskanine	Fall Chinook	052	0	0	201,784	5,988	479,371	26,971	681,155	32,959
	Winter Steelhead	013	0	0	0	0	59,699	8,910	59,699	8,910
Leaburg	Cutthroat	119	0	0	9,809	44	0	0	9,809	44
	Rainbow Trout	072	0	0	6,030	25	408,403	133,601	414,433	133,626
	Summer Steelhead	024	0	0	0	0	113,305	23,753	113,305	23,753
Marion Forks	Brook Trout	364	0	0	1,795	13	0	0	1,795	13
	Cutthroat	119	0	0	6,246	26	0	0	6,246	26
	Rainbow Trout	053	0	0	145,375	4,141	0	0	145,375	4,141
	Rainbow Trout	072	0	0	10,849	62	0	0	10,849	62
	Spring Chinook	011	0	0	1,502	31	0	0	1,502	31
	Spring Chinook	021	0	0	146,900	3,673	0	0	146,900	3,673
McKenzie	Spring Chinook	023	0	0	72,558	725	1,197,936	126,802	1,270,494	127,527
Minto Pond	Spring Chinook	021	0	0	0	0	668,315	49,982	668,315	49,982
	Summer Steelhead	024	0	0	0	0	159,100	31,820	159,100	31,820
Nehalem	Coho	032	0	0	27,211	440	0	0	27,211	440
	Coho	034	0	0	4,147	50	0	0	4,147	50
	Coho	099	0	0	0	0	100,652	6,351	100,652	6,351
	Fall Chinook	034	0	0	0	0	25,968	1,420	25,968	1,420
	Rainbow Trout	072	0	0	9,555	390	86,826	35,851	96,381	36,241
	Winter Steelhead	032	0	0	2,367	30	94,844	15,329	97,211	15,359
	Winter Steelhead	099	0	0	0	0	41,537	6,593	41,537	6,593

Table 3. Numbers and Pounds of Fish Released in Calendar Year 2004

NORTHWEST HATCHERY	REGION (cont) SPECIES	STOCK	FRY		FINGERLING		SMOLT		TOTAL STOCKED	
			NUMBER	POUNDS	NUMBER	POUNDS	NUMBER	POUNDS	NUMBER	POUNDS
Roaring River	Rainbow Trout	072	0	0	95,716	748	253,471	103,738	349,187	104,486
	Summer Steelhead	024	0	0	0	0	42,023	9,610	42,023	9,610
	Winter Steelhead	038	0	0	0	0	73,184	14,393	73,184	14,393
Rhoades Pond ¹	Fall Chinook	047	0	0	0	0	74,770	6,445	74,770	6,445
Salmon River	Coho	033	0	0	0	0	215,653	20,538	215,653	20,538
	Fall Chinook	036	0	0	0	0	207,461	15,657	207,461	15,657
	Summer Steelhead	033	0	0	0	0	55,415	9,507	55,415	9,507
Sandy	Coho	011	0	0	0	0	705,152	48,158	705,152	48,158
	Spring Chinook	011	0	0	0	0	177,009	18,751	177,009	18,751
	Summer Steelhead	024	0	0	0	0	74,927	13,145	74,927	13,145
	Winter Steelhead	011W	0	0	0	0	166,239	35,115	166,239	35,115
South Santiam	Rainbow Trout	072	0	0	0	0	3,470	1,735	3,470	1,735
	Spring Chinook	024	0	0	0	0	750,503	80,835	750,503	80,835
	Summer Steelhead	024	0	0	0	0	144,977	35,019	144,977	35,019
STEP ²	Spring Chinook	019	0	0	0	0	137,987	12,778	137,987	12,778
	Winter Steelhead	047	0	0	0	0	10,184	1,520	10,184	1,520
	Winter Steelhead	121W	0	0	0	0	10,020	1,440	10,020	1,440
Trask	Coho	034	0	0	0	0	100,382	6,983	100,382	6,983
	Fall Chinook	034	77,497	164	12,631	249	113,239	6,256	203,367	6,669
	Spring Chinook	034	0	0	0	0	77,182	7,018	77,182	7,018
	Summer Steelhead	047	0	0	0	0	30,446	4,880	30,446	4,880
	Winter Steelhead	121W	0	0	0	0	35,890	5,808	35,890	5,808
Trask Pond	Spring Chinook	034	0	0	0	0	126,393	10,623	126,393	10,623
Tuffy Creek [#]	Spring Chinook	034	0	0	0	0	59,475	4,757	59,475	4,757
	Winter Steelhead	047	0	0	0	0	68,580	10,234	68,580	10,234
Willamette	Cutthroat	119	0	0	14,620	83	0	0	14,620	83
	Rainbow Trout	053	0	0	115,944	1,449	0	0	115,944	1,449
	Rainbow Trout	072	0	0	10,685	77	176,455	63,077	187,140	63,154
	Rainbow Trout	072T	0	0	0	0	42,264	2,781	42,264	2,781
	Spring Chinook	019	0	0	0	0	129,759	15,010	129,759	15,010
	Spring Chinook	022	0	0	0	0	202,319	18,555	202,319	18,555
	Spring Chinook	024	0	0	99,950	1,000	315,412	33,539	415,362	34,539
Yaquina Acc	Fall Chinook	146	0	0	0	0	32,182	2,076	32,182	2,076
Yaquina Bay	Fall Chinook	146	0	0	0	0	82,900	5,181	82,900	5,181
REGION	TOTALS		77,497	164	11,875,592	224,494	12,542,946	1,724,503	24,496,035	1,949,161

¹ Rearing site operated by Salmon and Trout Enhancement Program – ODFW

² Salmon and Trout Enhancement Program – ODFW

³ Rearing site operated in cooperation with an Oregon Department of Corrections South Fork Wilson River Forest Camp

Table 3. Numbers and Pounds of Fish Released in Calendar Year 2004

HATCHERY	SPECIES	STOCK	FRY		FINGERLING		SMOLT		TOTAL STOCKED	
			NUMBER	POUNDS	NUMBER	POUNDS	NUMBER	POUNDS	NUMBER	POUNDS
Bandon	Coho	044	0	0	0	0	13,329	1,212	13,329	1,212
	Rainbow Trout	072	0	0	0	0	1,367	3,877	1,367	3,877
	Winter Steelhead	044	0	0	0	0	24,108	4,890	24,108	4,890
Beaver Cr Acc. ¹	Winter Steelhead	144	0	0	0	0	47,603	8,655	47,603	8,655
Butte Falls	Coho	018	0	0	3,995	103	29,058	2,490	33,053	2,593
	Coho	055	0	0	7,489	188	11,003	1,129	18,492	1,317
	Coho	509	0	0	0	0	10,979	1,010	10,979	1,010
	Rainbow Trout	053	0	0	440,050	5,876	0	0	440,050	5,876
	Rainbow Trout	072	0	0	0	0	82,526	30,032	82,526	30,032
	Rainbow Trout	171	0	0	0	0	14,770	3,468	14,770	3,468
Cole Rivers	Coho	052	0	0	72,522	1,020	205,000	20,425	277,522	21,445
	Rainbow Trout	072	0	0	2,006	67	310,428	102,702	312,434	102,769
	Spring Chinook	052	0	0	396,058	10,804	1,944,499	207,042	2,340,557	217,846
	Summer Steelhead	052	0	0	0	0	227,539	49,039	227,539	49,039
	Winter Steelhead	052	0	0	115,270	6,954	180,534	43,706	295,804	50,660
	Winter Steelhead	062	100	1	74,327	4,423	187,121	44,711	261,548	49,135
Elk River	Fall Chinook	035	0	0	0	0	324,231	32,590	324,231	32,590
	Fall Chinook	096	0	0	0	0	156,810	10,133	156,810	10,133
	Rainbow Trout	072	0	0	0	0	1,117	3,078	1,117	3,078
	Winter Steelhead	096	0	0	16,546	508	46,006	7,230	62,552	7,738
Hantz Creek ¹	Winter Steelhead	044	0	0	0	0	25,094	5,090	25,094	5,090
Rock Creek	Coho	018	0	0	0	0	46,143	4,353	46,143	4,353
	Coho	055	0	0	0	0	63,901	6,028	63,901	6,028
	Rainbow Trout	171	0	0	0	0	27,538	7,982	27,538	7,982
	Spring Chinook	055	0	0	42,295	400	415,381	54,386	457,676	54,786
	Summer Steelhead	055	0	0	0	0	91,970	23,008	91,970	23,008
STEP ²	Coho	037	0	0	0	0	54,717	4,758	54,717	4,758
	Fall Chinook	044	0	0	25,614	309	0	0	25,614	309
	Fall Chinook	061	0	0	29,684	936	53,757	3,918	83,441	4,854
	Winter Steelhead	037	0	0	0	0	44,518	7,959	44,518	7,959
	Winter Steelhead	144	0	0	0	0	30,175	5,486	30,175	5,486
REGION	TOTALS		100	1	1,225,856	31,588	4,671,222	700,387	5,897,178	731,976

¹Rearing site operated by Salmon and Trout Enhancement Program – ODFW

²Salmon and Trout Enhancement Program – ODFW

Table 3. Numbers and Pounds of Fish Released in Calendar Year 2004

NORTHEAST REGION		FRY		FINGERLING		SMOLT		TOTAL STOCKED		
HATCHERY	SPECIES	STOCK	NUMBER	POUNDS	NUMBER	POUNDS	NUMBER	POUNDS	NUMBER	POUNDS
Big Canyon	Summer Steelhead	056	0	0	0	0	226,890	51,690	226,890	51,690
Catherine Cr Acc. ⁴	Spring Chinook	201F	0	0	92,105	3,987	0	0	92,105	3,987
	Spring Chinook	201W	0	0	70,509	3,013	0	0	70,509	3,013
Grande Ronde Acc. ⁴	Spring Chinook	080F	0	0	75,063	3,698	0	0	75,063	3,698
	Spring Chinook	080W	0	0	69,856	3,114	0	0	69,856	3,114
Irrigon	Rainbow Trout	072	0	0	0	0	87,357	28,225	87,357	28,225
	Rainbow Trout	156	0	0	0	0	2,165	401	2,165	401
	Summer Steelhead	029	0	0	0	0	100,002	20,241	100,002	20,241
	Summer Steelhead	056	0	0	0	0	1,109	188	1,109	188
Imeques ⁴	Spring Chinook	091	0	0	165,840	9,813	702,153	49,318	867,993	59,131
Imnaha Pond	Spring Chinook	029	0	0	398,469	15,267	0	0	398,469	15,267
Little Sheep	Summer Steelhead	029	0	0	0	0	202,011	44,064	202,011	44,064
Lookingglass	Spring Chinook	201F	0	0	53,333	2,516	0	0	53,333	2,516
Lostine Acc. ⁵	Spring Chinook	200F	0	0	129,598	6,304	0	0	129,598	6,304
	Spring Chinook	200W	0	0	116,370	4,629	0	0	116,370	4,629
Minthorn Pond ⁴	Summer Steelhead	091	0	0	0	0	43,863	9,877	43,863	9,877
Pendleton Acc.	Summer Steelhead	091	0	0	0	0	43,115	9,581	43,115	9,581
Thornhollow ⁴	Fall Chinook	045	0	0	299,392	7,858	0	0	299,392	7,858
	Fall Chinook	091	0	0	0	0	477,065	48,729	477,065	48,729
Umatilla	Fall Chinook	045	0	0	308,810	8,020	0	0	308,810	8,020
	Summer Steelhead	091	0	0	0	0	43,590	10,534	43,590	10,534
Wallowa Acc.	Summer Steelhead	056	0	0	0	0	556,932	128,268	556,932	128,268
REGION	TOTALS		0	0	1,779,345	68,219	2,486,252	401,116	4,265,597	469,335

⁴Operated by the Confederated Tribes of the Umatilla Indian Reservation

⁵Operated by the Nez Perce Tribe

Table 3. Numbers and Pounds of Fish Released in Calendar Year 2004

HATCHERY	REGION	SPECIES	STOCK	FRY		FINGERLING		SMOLT		TOTAL STOCKED	
				NUMBER	POUNDS	NUMBER	POUNDS	NUMBER	POUNDS	NUMBER	POUNDS
Blackberry Acc ⁶		Spring Chinook	066	0	0	0	0	56,847	4,259	56,847	4,259
		Summer Steelhead	050W	0	0	0	0	40,429	8,028	40,429	8,028
EFID ⁶		Winter Steelhead	050W	0	0	0	0	29,462	5,302	29,462	5,302
Fall River		Cutthroat	119B	0	0	0	0	1,029	1,690	1,029	1,690
		Rainbow Trout	053	0	0	0	0	11,293	649	11,293	649
		Rainbow Trout	066	0	0	0	0	19,231	6,782	19,231	6,782
		Rainbow Trout	072	0	0	0	0	67,307	21,611	67,307	21,611
		Rainbow Trout	127	0	0	106,888	1,086	0	0	106,888	1,086
		Rainbow Trout	127B	0	0	0	0	99	593	99	593
		Rainbow Trout	127W	0	0	62,920	835	0	0	62,920	835
Jones Creek ⁶		Spring Chinook	066	0	0	0	39,227	2,939	39,227	2,939	
Klamath		Brown Trout	068	0	0	33,000	440	47,036	6,550	80,036	6,990
		Cutthroat	302	0	0	0	0	38,800	2,675	38,800	2,675
		Rainbow Trout	053	0	0	469,210	8,296	0	0	469,210	8,296
		Rainbow Trout	072	0	0	38,150	1,225	73,550	31,370	111,700	32,595
Oak Springs		Cutthroat	119	0	0	29,984	132	0	0	29,984	132
		Rainbow Trout	053	0	0	643,349	16,165	109,248	25,113	752,597	41,278
		Rainbow Trout	053B	0	0	9,344	48	4,420	17,585	13,764	17,633
		Rainbow Trout	066	0	0	30,537	716	5,000	1,613	35,537	2,329
		Rainbow Trout	066B	0	0	0	0	79	878	79	878
		Rainbow Trout	072	0	0	0	0	133,326	47,291	133,326	47,291
		Rainbow Trout	127	0	0	30,168	412	0	0	30,168	412
		Rainbow Trout	153	0	0	5,015	131	65,613	5,928	70,628	6,059
		Summer Steelhead	024	0	0	29,715	1,473	18,730	2,973	48,445	4,446
Parkdale ⁶		Spring Chinook	066	0	0	0	0	31,932	2,383	31,932	2,383
		Winter Steelhead	050W	0	0	0	0	29,945	5,754	29,945	5,754
Round Butte		Spring Chinook	066	0	0	0	0	336,409	33,517	336,409	33,517
		Summer Steelhead	066	0	0	0	0	196,193	56,465	196,193	56,465
Wizard Falls		Atlantic Salmon	123	0	0	0	0	12,553	3,561	12,553	3,561
		Brook Trout	364	0	0	21,685	272	2,281	2,074	23,966	2,346
		Brook Trout	364B	0	0	0	0	817	1,787	817	1,787
		Cutthroat	119	0	0	9,296	43	0	0	9,296	43
		Cutthroat	119B	0	0	0	0	308	512	308	512
		Kokanee	067	0	0	461,172	5,080	0	0	461,172	5,080
		Kokanee	069	0	0	32,168	210	0	0	32,168	210
		Rainbow Trout	053	0	0	238,316	3,411	0	0	238,316	3,411
		Rainbow Trout	072	0	0	102,023	1,612	18,566	8,716	120,589	10,328
		Rainbow Trout	127	0	0	0	0	6,017	806	6,017	806
Rainbow Trout	127W	0	0	0	0	52,084	4,759	52,084	4,759		
REGION		TOTALS		0	0	2,352,940	41,587	1,447,831	314,163	3,800,771	355,750

⁶Operated by the Confederated Tribes of the Warm Springs Indian Reservation

Table 3. Numbers and Pounds of Fish Released in Calendar Year 2004

<u>STATEWIDE</u> HATCHERY	<u>TOTALS</u> SPECIES	FRY		FINGERLING		SMOLT		TOTAL STOCKED	
		NUMBER	POUNDS	NUMBER	POUNDS	NUMBER	POUNDS	NUMBER	POUNDS
All	Atlantic Salmon	0	0	0	0	12,553	3,561	12,553	3,561
	Brook Trout	0	0	23,480	285	3,098	3,861	26,578	4,146
	Brown Trout	0	0	33,000	440	47,036	6,550	80,036	6,990
	Coho	0	0	115,364	1,801	3,223,191	258,083	3,338,555	259,884
	Cutthroat	0	0	69,955	328	40,137	4,877	110,092	5,205
	Fall Chinook	77,497	164	11,325,698	206,885	2,027,754	159,376	13,430,949	366,425
	Kokanee	0	0	493,340	5,290	0	0	493,340	5,290
	Rainbow Trout	0	0	2,572,130	46,772	2,423,365	848,004	4,995,495	894,776
	Spring Chinook	0	0	2,239,099	85,993	8,987,585	937,470	11,226,684	1,023,463
	Summer Steelhead	0	0	57,715	2,173	2,767,869	605,955	2,825,584	608,128
	Winter Steelhead	100	1	303,952	15,921	1,615,663	312,432	1,919,715	328,354
	TOTAL	77,597	165	17,233,733	365,888	21,148,251	3,140,169	38,459,581	3,506,222

Table 4. Fish Produced by ODFW Hatcheries for Release Outside Oregon

HATCHERY	SPECIES	STOCK	TOTAL SHIPPED		SHIPPED TO
			NUMBER	POUNDS	
Bonneville	Fall Chinook	095	7,001,050	57,385	Washington
Cascade	Coho	014	1,432,258	72,090	Washington

Table 5. Numbers and Pounds of Fish Stocked by Watershed in Calendar Year 2004

Watershed	Drainage Basin		Trout				Steelhead		Chinook Salmon		Coho Salmon	Atlantic Salmon	Kokanee	Misc.*	Total
			Rainbow	Cutthroat	Brook	Brown	Summer	Winter	Spring	Fall					
1	North Coast	no.	102,758				106,620	521,047	2,042,347	7,446,735	3,333,124				13,552,631
		lb.	39,647				18,960	82,866	161,052	161,768	264,888				729,181
2	Willamette	no.	1,406,492	32,501	4,893		579,125		4,175,454				99,977		6,298,442
		lb.	339,144	1,337	3,872		125,084		435,544				829		905,810
3	Clackamas/Sandy	no.	211,745	1,050			262,336	293,590	1,424,761	4,559,947	1,855,432				8,608,861
		lb.	73,703	75			39,148	57,276	129,705	102,790	137,693				540,390
4	Hood	no.	71,599				69,159	59,407	128,006						328,171
		lb.	22,213				11,472	11,056	9,582						54,323
5	Deschutes	no.	730,512	38,791	19,384	34,021	215,908		336,409			12,553	365,351	17	1,752,946
		lb.	89,824	1,193	187	4,780	57,469		33,517			3,561	4,162	31	194,724
6	John Day	no.	48,670		1,301										49,971
		lb.	6,963		48										7,011
7	Umatilla	no.	48,097				130,568		867,993	1,085,267					2,131,925
		lb.	11,368				29,992		59,131	64,607					165,098
8	Grande Ronde	no.	99,845		1,000		1,086,944		1,005,303						2,193,092
		lb.	26,920		37		244,451		42,528						313,936
9	Powder	no.	423,234												423,234
		lb.	33,009												33,009
10	Malheur	no.	102,243												102,243
		lb.	1,033												1,033
11	Owyhee	no.	39,407												39,407
		lb.	1,545												1,545
12	Malheur Lake	no.	191,660	20,250										543	212,453
		lb.	14,627	1,350										190	16,167
13	Goose & Summer Lakes	no.	170,710			1,015						3,008	6,000		180,733
		lb.	16,395			145						32	48		16,620
14	Klamath	no.	105,679	17,500		45,000									168,179
		lb.	16,110	1,250		2,065									19,425
15	Rogue	no.	917,850				227,539	557,352	2,340,557	83,441	277,522				4,404,261
		lb.	101,093				49,039	99,794	217,845	4,854	21,445				494,070
16	Umpqua	no.	238,014				91,970		457,676		143,510		25,004		956,174
		lb.	64,312				23,008		54,786		12,810		266		155,182
17	South Coast	no.	79,598					234,050		506,655	97,104				917,407
		lb.	38,002					39,818		43,032	8,460				129,312
18	Mid Coast	no.	160,247				55,415	254,269		322,543	215,653				1,008,127
		lb.	74,449				9,507	37,544		22,915	20,538				164,953
TOTAL NUMBERS			5,148,360	110,092	26,578	80,036	2,825,584	1,919,715	12,778,506	14,004,588	5,922,345	12,553	493,340	6,560	43,328,257
TOTAL POUNDS			970,357	5,205	4,144	6,990	608,130	328,354	1,143,690	399,966	465,834	3,561	5,289	269	3,941,789

* Misc. includes Bluegill Sunfish, Hybrid Bass, and Largemouth Bass

Table 6. Fish produced outside ODFW Hatcheries for Release in Oregon in 2004

SOURCE	SPECIES	STOCK	TOTAL STOCKED	
			NUMBER	POUNDS
CEDC*	Coho (reared at Sandy)	011	298,748	20,746
	Coho (reared at Cascade and Oxbow)	014	1,306,595	111,543
	Coho (reared at Eagle Creek NFH)	019	861,841	65,592
	Fall Chinook (reared at Big Creek)	052	573,639	33,541
	Spring Chinook (reared at Willamette)	022	912,376	73,555
	Spring Chinook (reared at Gnat Creek)	024	639,446	46,675
Eagle Creek NFH	Coho	019	557,016	41,260
	Winter Steelhead	020	146,078	25,361
Warm Springs NFH	Spring Chinook	066	526,386	22,599

*Clatsop Economic Development Council (incubation and rearing of most stocks take place at ODFW hatcheries and Eagle Creek NFH; fish are acclimated at and released from CEDC net pen facilities).

Table 7. Fish purchased by ODFW from Private Fish Propagators in 2004.

SOURCE	SPECIES	TOTAL STOCKED		COST
		NUMBER	POUNDS	
Blue Den Ranch	Rainbow Trout	3,895	2,806	\$4,561
Clear Creek Rainbow Ranch	Rainbow Trout	6,810	3,287	\$8,600
Desert Springs Trout Farm	Rainbow Trout	154,978	76,964	\$210,225
Island Springs Hatchery	Rainbow Trout	2,150	717	\$3,503
Lake's Trout Farm	Rainbow Trout	4,990	2,163	\$6,550
TOTAL		172,823	85,937	\$233,439

Table 8. Summary of Egg and Fry Rearing at ODFW Hatcheries for Brood Year 2004

SPECIES/ STOCK	HATCHERY	FEMALES SPAWNED	EGG TAKE	RECEIVE	TRANSFER	SHIP	SOLD	EGG LOSS	FRY LOSS	FRY RELEASE	ON HAND	FRY PONDED
ATLANTIC SALMON												
123	WIZARD FALLS	31	26,440	12,500	0	0	0	7,000	972	0	12,500	18,468
BROOK TROUT												
158W	WIZARD FALLS	60	38,750	0	0	0	0	6,680	5,000	0	0	27,070
364	WIZARD FALLS	500	672,000	0	0	0	0	88,000	58,000	0	0	526,000
	SPECIES TOTAL	560	710,750	0	0	0	0	94,680	63,000	0	0	553,070
BROWN TROUT												
068	FALL RIVER	36	104,040	0	104,040	0	0	0	0	0	0	0
068	KLAMATH	0	0	104,040	0	0	0	4,896	3,144	0	0	96,000
	SPECIES TOTAL	36	104,040	104,040	104,040	0	0	4,896	3,144	0	0	96,000
COHO												
011	SANDY	510	1,585,222	0	0	0	0	305,222	58,879	0	0	1,221,121
013	BIG CREEK	259	918,072	0	5,000	8,000	0	271,879	17,785	0	0	615,408
014	BONNEVILLE	1,890	6,667,970	0	6,667,970	0	0	0	0	0	0	0
014	CASCADE	0	0	6,013,820	0	0	0	1,491,320	117,066	0	0	4,405,434
014	OXBOW	0	0	654,150	0	0	0	289,415	3,489	0	0	361,246
018	ROCK CREEK	92	232,465	0	100,059	0	0	24,278	0	0	108,128	0
032	NEHALEM	80	266,380	0	0	0	0	18,180	2,931	91,000	0	154,269
033	SALMON RIVER	110	385,499	0	20,166	0	0	23,962	94,062	0	0	247,309
033	STEP	0	0	20,166	0	0	0	226	156	0	0	19,784
034	NEHALEM	0	0	160,000	0	0	0	0	22,336	0	0	137,664
034	TRASK	80	266,614	0	160,000	0	0	106,601	0	0	0	0
037	BANDON	0	0	268,800	205,438	0	0	63,362	0	0	0	0
037	COLE RIVERS	0	0	135,994	0	0	0	0	5,434	0	0	130,560
037	STEP	92	268,800	13,912	26,880	0	0	0	0	0	13,912	0
044	BANDON	61	185,203	0	18,772	0	0	16,271	0	0	150,160	0
044	BUTTE FALLS	0	0	55,098	0	0	0	0	0	0	55,098	0
044	STEP	0	0	13,962	0	0	0	0	0	0	13,962	0
052	COLE RIVERS	150	368,099	0	0	0	0	67,529	24,802	0	0	275,768
055	ROCK CREEK	63	175,152	0	0	80,258	0	9,957	0	0	84,937	0
508	CASCADE	0	0	779,894	0	0	0	12,878	22,480	0	0	744,536
	SPECIES TOTAL	3,387	11,319,476	8,115,796	7,204,285	88,258	0	2,701,080	369,420	91,000	426,197	8,313,099

Table 8. Summary of Egg and Fry Rearing at ODFW Hatcheries for Brood Year 2004

SPECIES/ STOCK	HATCHERY	FEMALES SPAWNED	EGG TAKE	RECEIVE	TRANSFER	SHIP	SOLD	EGG LOSS	FRY LOSS	FRY RELEASE	ON HAND	FRY PONDED
CUTTHROAT												
119	FALL RIVER	241	225,144	0	225,144	0	0	0	0	0	0	0
119	OAK SPRINGS	0	0	225,144	0	0	0	64,944	9,096	0	0	151,104
	SPECIES TOTAL	241	225,144	225,144	225,144	0	0	64,944	9,096	0	0	151,104
FALL CHINOOK												
013	BIG CREEK	1,345	7,366,963	0	20,200	0	0	1,319,991	81,801	0	0	5,944,971
018	ROCK CREEK	62	255,551	0	231,484	0	0	30,390	0	0	0	0
034	TRASK	127	565,030	0	5,200	100,600	0	26,552	0	0	93,028	338,381
035	ELK RIVER	616	721,156	0	10,609	30,000	0	212,367	6,195	111,736	22,571	328,038
035	STEP	0	0	10,609	0	0	0	0	0	10,609	0	0
036	SALMON RIVER	54	229,182	0	0	0	0	20,432	3,305	0	0	205,445
037	BANDON	0	0	4,070,365	3,247,173	0	0	270,222	3,925	0	0	548,912
037	COLE RIVERS	0	0	98,024	0	0	0	0	4,160	0	0	93,864
037	STEP	718	3,804,778	3,170,562	3,791,077	0	0	0	0	0	3,184,263	0
044	BANDON	56	265,862	0	150,427	0	0	103,893	0	0	11,542	0
044	BUTTE FALLS	0	0	100,045	0	0	0	0	1,199	0	0	98,846
044	STEP	0	0	50,392	0	0	0	0	0	0	50,392	0
045	UMATILLA	0	0	100,000	0	0	0	2,977	2,471	0	0	94,552
047	CEDAR CREEK	0	0	0	25,016	0	0	10,952	2,401	0	0	11,663
047F	CEDAR CREEK	41	170,616	0	20,880	0	0	3,816	0	0	145,920	0
052	BIG CREEK	2	7,070	795,983	0	0	0	49,422	10,052	0	0	743,579
052	KLASKANINE	219	800,283	0	800,283	0	0	0	0	0	0	0
091	BONNEVILLE	0	0	520,489	0	0	0	0	9,229	0	0	511,260
091	UMATILLA	350	1,350,386	0	520,489	0	0	265,025	18,627	0	0	546,245
095	BONNEVILLE	2,697	11,534,127	0	0	0	0	2,212,877	162,894	0	0	9,158,356
096	ELK RIVER	136	373,087	0	0	840	0	148,330	0	63,855	0	160,062
097	UMATILLA	0	0	842,278	0	0	0	0	15,362	0	0	826,916
146	SALMON RIVER	14	60,327	0	0	0	0	2,227	472	0	0	57,628
151	ROCK CREEK	13	52,971	0	46,268	0	0	380	0	0	6,323	0
	SPECIES TOTAL	6,450	27,557,389	9,758,747	8,869,106	131,440	0	4,679,853	322,093	186,200	3,514,039	19,668,718
KOKANEE												
067	WIZARD FALLS	729	669,000	0	0	0	0	141,000	135,500	0	0	392,500
069	WIZARD FALLS	450	483,080	0	0	203,520	0	114,200	5,360	0	0	160,000
	SPECIES TOTAL	1,179	1,152,080	0	0	203,520	0	255,200	140,860	0	0	552,500

Table 8. Summary of Egg and Fry Rearing at ODFW Hatcheries for Brood Year 2004

SPECIES/ STOCK	HATCHERY	FEMALES SPAWNED	EGG TAKE	RECEIVE	TRANSFER	SHIP	SOLD	EGG LOSS	FRY LOSS	FRY RELEASE	ON HAND	FRY PONDED
RAINBOW TROUT												
053	KLAMATH	0	0	828,038	0	0	0	0	46,438	0	0	781,600
053	LEABURG	0	0	39,984	0	0	0	0	6,407	0	0	33,577
053	OAK SPRINGS	1,174	5,413,219	0	2,937,046	0	0	1,639,436	29,905	0	0	806,832
053	STEP	0	0	4,200	0	0	0	614	431	3,141	14	0
053	WIZARD FALLS	0	0	2,009,158	0	0	0	0	283,478	0	0	1,725,680
053T	KLAMATH	0	0	379,056	0	0	0	0	42,150	0	0	336,906
053T	OAK SPRINGS	179	596,643	0	379,056	0	0	209,336	621	0	0	7,630
066	OAK SPRINGS	92	299,291	0	9,200	0	0	202,580	19,340	0	0	68,171
066	STEP	0	0	3,400	0	0	0	487	293	2,581	39	0
072	ROARING RVER	865	138,395	0	0	0	0	29,818	58,450	0	0	50,127
072	WIZARD FALLS	0	0	313,000	0	0	0	0	3,000	0	0	310,000
072T	ALSEA	0	0	450,000	0	0	0	0	26,109	0	0	423,891
072T	COLE RIVERS	0	0	630,000	0	0	0	0	24,188	0	0	605,812
072T	FALL RIVER	0	0	395,000	1,600	0	0	5,014	6,978	0	0	381,408
072T	KLAMATH	0	0	446,000	0	0	0	0	30,000	0	0	416,000
072T	LEABURG	0	0	40,000	0	0	0	0	1,811	0	0	38,189
072T	NEHALEM	0	0	165,000	1,000	0	0	0	0	0	164,000	0
072T	OAK SPRINGS	0	0	240,000	0	0	0	0	14,371	0	225,629	0
072T	ROARING RVER	1,260	8,110,079	0	3,667,000	80,000	0	3,598,079	28,599	0	0	736,401
072T	WALLOWA	0	0	2,000	0	0	0	0	0	0	2,000	0
072T	WILLAMETTE	0	0	938,000	0	0	0	0	78,831	0	0	859,169
127	FALL RIVER	107	457,728	0	69,620	0	0	102,848	18,351	0	0	266,909
127	OAK SPRINGS	0	0	69,120	0	0	0	0	2,754	0	0	66,366
127W	FALL RIVER	65	320,000	0	320,000	0	0	0	0	0	0	0
127W	KLAMATH	0	0	320,000	0	0	0	164,000	6,000	0	0	150,000
153	OAK SPRINGS	26	22,124	0	0	0	0	5,944	273	0	0	15,907
551F	ROCK CREEK	48	7,240	0	0	0	0	2,539	661	0	0	4,040
SPECIES TOTAL		3,816	15,364,719	7,271,956	7,384,522	80,000	0	5,960,695	729,439	5,722	391,682	8,084,615
SOCKEYE SALMON												
085	OXBOW	0	0	50,002	0	0	0	0	1,042	0	0	48,960

Table 8. Summary of Egg and Fry Rearing at ODFW Hatcheries for Brood Year 2004

SPECIES/ STOCK	HATCHERY	FEMALES SPAWNED	EGG TAKE	RECEIVE	TRANSFER	SHIP	SOLD	EGG LOSS	FRY LOSS	FRY RELEASE	ON HAND	FRY PONDED
SPRING CHINOOK												
011	CLACKAMAS	72	363,980	0	332,750	0	0	31,230	0	0	0	0
011	WILLAMETTE	0	0	332,750	0	0	0	0	4,032	0	0	328,718
019	CLACKAMAS	332	1,572,066	0	1,385,000	0	0	187,066	0	0	0	0
019	OXBOW	0	0	330,565	0	0	0	0	0	0	0	330,565
019	WILLAMETTE	0	0	1,330,000	330,565	0	0	0	17,169	0	0	982,266
021	MARION FORKS	283	1,041,480	0	0	0	0	372,480	86,000	0	0	583,000
021	GNAT CREEK	0	0	864,000	0	0	0	12,661	5,837	0	0	845,502
022	WILLAMETTE	832	3,264,380	0	1,081,026	0	0	231,334	105,561	0	0	1,846,459
023	MCKENZIE	497	2,110,900	0	179,400	0	0	543,100	38,800	0	0	1,349,600
024	SO. SANTIAM	506	2,149,543	0	1,983,273	0	0	166,270	0	0	0	0
024	WILLAMETTE	0	0	1,351,200	0	0	0	0	12,103	0	0	1,339,097
029	LOOKINGGLASS	105	488,475	0	447,785	0	0	40,690	0	0	0	0
029	OXBOW	0	0	447,785	0	0	0	0	591	0	0	447,194
034	TRASK	249	1,064,753	0	156,400	0	0	309,299	8,548	29,138	0	561,368
047	CEDAR CREEK	51	225,176	0	63,072	0	0	24,616	4,600	0	0	132,888
050	PARKDALE	29	84,134	0	38,176	0	0	42,895	3,163	0	0	0
050	ROUND BUTTE	0	0	38,176	0	0	0	0	0	0	38,176	0
052	COLE RIVERS	718	2,336,508	0	8,250	0	0	400,150	58,432	0	0	1,869,676
055	ROCK CREEK	134	427,036	0	0	0	0	36,091	13,451	0	0	377,494
066	ROUND BUTTE	165	529,311	0	0	0	0	86,122	10,499	0	0	432,690
080F	BONNEVILLE	1	693	0	693	0	0	0	0	0	0	0
080F	IRRIGON	0	0	500	0	0	0	0	262	0	0	238
080F	OXBOW	0	0	693	500	0	0	193	0	0	0	0
080W	LOOKINGGLASS	7	20,858	0	0	0	0	1,832	49	0	0	18,977
081	LOOKINGGLASS	53	172,476	0	0	0	0	26,126	601	0	0	145,749
091	UMATILLA	295	1,148,349	0	0	230,003	0	298,166	12,008	0	608,172	0
102	ROUND BUTTE	132	396,980	0	0	0	0	36,354	9,371	0	0	351,255
200F	BONNEVILLE	56	83,620	0	83,620	0	0	0	0	0	0	0
200F	IRRIGON	0	0	51,500	0	0	0	0	2,600	0	0	48,900
200F	OXBOW	0	0	83,620	51,500	0	0	32,120	0	0	0	0
200W	LOOKINGGLASS	52	221,888	0	206,421	0	0	15,467	0	0	0	0
200W	OXBOW	0	0	206,421	0	0	0	0	172	0	0	206,429
201F	BONNEVILLE	77	110,600	0	110,600	0	0	0	0	0	0	0
201F	IRRIGON	0	0	55,062	0	0	0	0	1,946	0	0	53,166
201F	OXBOW	0	0	109,310	55,062	0	0	54,054	0	0	194	0
201W	LOOKINGGLASS	9	26,204	0	0	0	0	1,816	427	0	0	23,961
SPECIES TOTAL		4,655	17,839,410	5,201,582	6,514,093	230,003	0	2,950,132	396,222	29,138	646,542	12,275,192

Table 8. Summary of Egg and Fry Rearing at ODFW Hatcheries for Brood Year 2004

SPECIES/ STOCK	HATCHERY	FEMALES SPAWNED	EGG TAKE	RECEIVE	TRANSFER	SHIP	SOLD	EGG LOSS	FRY LOSS	FRY RELEASE	ON HAND	FRY PONDED
SUMMER STEELHEAD												
024	BONNEVILLE	0	0	263,200	0	0	0	0	4,790	0	0	258,410
024	OAK SPRINGS	0	0	1,057,600	0	0	0	0	6,694	0	0	1,050,906
024	SO. SANTIAM	500	1,699,700	0	1,320,800	0	0	378,900	0	0	0	0
029	IRRIGON	0	0	398,120	0	0	0	0	4,071	0	0	394,049
029	LITTLE SHEEP	95	432,180	0	432,180	0	0	0	0	0	0	0
029	WALLOWA	0	0	432,180	398,120	0	0	34,060	0	0	0	0
033	CEDAR CREEK	57	185,647	0	129,135	0	0	13,738	1,235	0	0	41,539
033	SALMON RIVER	0	0	102,625	0	0	0	0	2,019	0	0	100,606
033	TRASK	0	0	25,910	0	0	0	0	892	0	0	25,018
047	CEDAR CREEK	56	159,756	0	31,104	0	0	76,812	744	0	0	51,096
047	TRASK	0	0	31,104	0	0	0	0	892	0	0	30,212
050W	OAK SPRINGS	0	0	74,568	0	0	0	4,740	908	0	0	68,920
050W	PARKDALE	19	74,568	0	74,568	0	0	0	0	0	0	0
052	COLE RIVERS	197	606,301	0	0	0	0	67,820	230,415	0	3	308,063
055	ROCK CREEK	72	220,919	0	100	0	0	33,991	7,424	0	9,252	170,152
056	IRRIGON	0	0	994,600	0	0	0	0	11,558	0	0	983,042
056	STEP	0	0	1,400	0	0	0	150	0	1,250	0	0
056	WALLOWA	231	1,133,750	0	996,000	0	0	137,750	0	0	0	0
066	ROUND BUTTE	140	813,750	0	0	0	0	171,466	86,108	0	0	556,176
091	UMATILLA	44	215,539	0	0	0	0	44,963	2,544	0	0	168,032
	SPECIES TOTAL	1,411	5,542,110	3,381,307	3,382,007	0	0	964,390	360,294	1,250	9,255	4,206,221

Table 8. Summary of Egg and Fry Rearing at ODFW Hatcheries for Brood Year 2004

SPECIES/ STOCK	HATCHERY	FEMALES SPAWNED	EGG TAKE	RECEIVE	TRANSFER	SHIP	SOLD	EGG LOSS	FRY LOSS	FRY RELEASE	ON HAND	FRY PONDED
WINTER STEELHEAD												
011F	IRRIGON	0	0	117,000	0	0	0	0	2,231	0	0	114,769
011F	OXBOW	0	0	101,034	0	0	0	0	7,968	0	0	93,066
011F	SANDY	73	277,347	0	218,034	0	0	59,313	0	0	0	0
013	BIG CREEK	91	362,323	0	20,150	7,000	0	153,640	5,859	0	0	175,674
013	STEP	0	0	200	0	0	0	0	0	0	200	0
018	ROCK CREEK	101	252,741	0	1,500	0	0	31,396	16,225	0	0	203,620
032	NEHALEM	130	274,312	0	0	0	0	88,247	28,530	0	0	157,535
033W	ALSEA	35	107,403	0	0	0	0	22,472	2,317	0	0	82,614
037	BANDON	0	0	259,354	222,942	0	0	36,412	0	0	0	0
037	COLE RIVERS	0	0	166,875	0	0	0	0	18,703	0	0	148,172
037	STEP	77	259,354	56,067	259,354	0	0	1,736	4,060	50,661	0	0
038	STEP	121	177,050	0	128,563	0	0	12,202	0	0	0	36,285
038	WILLAMETTE	0	0	128,563	0	0	0	0	19,022	0	0	109,541
043	ALSEA	298	883,864	0	1,600	0	0	632,264	4,192	0	0	245,808
043	STEP	0	0	1,600	0	0	0	371	0	1,229	0	0
043W	ALSEA	85	235,668	0	0	0	0	78,949	26,590	0	0	130,129
044	BANDON	52	181,268	0	99,639	0	0	19,940	2,467	0	0	59,222
044	STEP	0	0	57,099	0	0	0	1,901	2,301	52,897	0	0
047	CEDAR CREEK	58	212,793	0	0	0	0	25,393	9,235	0	0	178,165
047F	CEDAR CREEK	25	79,575	0	0	0	0	5,724	1,591	0	0	71,260
050W	OAK SPRINGS	0	0	89,550	0	0	0	4,094	924	0	0	84,532
050W	PARKDALE	22	89,550	0	89,550	0	0	0	0	0	0	0
052	COLE RIVERS	162	456,369	0	0	0	0	109,732	30,924	0	0	315,713
062	COLE RIVERS	176	439,034	0	0	0	0	70,772	23,382	0	0	344,880
088	BANDON	0	0	36,759	34,138	0	0	2,621	0	0	0	0
088	COLE RIVERS	0	0	34,138	0	0	0	0	1,600	0	0	32,538
088	STEP	10	36,759	0	36,759	0	0	0	0	0	0	0
096	ELK RIVER	23	94,776	0	300	0	0	15,602	1,226	0	0	77,648
099	NEHALEM	90	201,155	0	0	0	0	118,975	13,370	0	0	68,810
121W	TRASK	33	117,796	0	0	0	0	11,627	3,485	0	0	102,684
122	CLACKAMAS	51	200,416	0	142,100	0	0	10,316	400	0	0	47,600
122	IRRIGON	0	0	142,100	0	0	0	0	2,050	0	0	140,050
144	BANDON	37	144,034	0	52,216	0	0	7,792	1,039	0	0	82,987
144	STEP	0	0	42,431	0	0	0	736	1,146	40,549	0	0
SPECIES TOTAL		1,750	5,083,587	1,232,770	1,306,845	7,000	0	1,522,227	230,837	145,336	200	3,103,302
GRAND TOTAL		23,516	84,925,145	35,353,844	34,990,042	740,221	0	19,205,097	2,626,419	458,646	5,000,415	57,071,249

Table 9. Fish Loss Reports for 2004

LOCATION	DATE	TIME	SPECIES	STOCK	SIZE (FISH/LB)	NUMBER LOST	REASON
Bonneville Hatchery	7/24/2004	2:00 PM	Fall Chinook	095	47	15,801	Facility design / water supply change
Leaburg Hatchery	9/22/2004	1:00 PM	Rainbow Trout	072	16.39	4,588	Liberation truck equipment failure
Umatilla Hatchery	8/30/2004		Spring Chinook	091	green eggs	112,000	Water supply pump failure
Hughey Creek	5/31/2004	11:30 AM	Spring Chinook	034		19,000	Water supply pump failure
Oak Springs Hatchery	3/22/2004	2:00 PM	Rainbow Trout	053	25	30,710	Human error

Table 10. Adult Anadromous Fish Dispositions for 2004

SPECIES/ STOCK	BROOD YEAR	FACILITY	RETURNS				TRANSFERS		POND LOSS	SPAWNED		DISPOSITION									
			MALE	FEMALE	JACK	TOTAL	IN	OUT		MALE	FEMALE	RELEASE	BURY	RENDER	SOLD	PROCESS	GIVE AWAY	STREAM ENRICH	OTHER	TOTAL	
BULL TROUT																					
29	2004	IMNAHA PD	71	64	0	135	0	0	0	0	0	135	0	0	0	0	0	0	0	135	
81	2004	LOOKINGGLASS	25	14	0	39	0	0	2	0	0	37	2	0	0	0	0	0	0	39	
		SPECIES TOTAL	96	78	0	174	0	0	2	0	0	172	2	0	0	0	0	0	0	174	
CHUM																					
13	2003	BIG CREEK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	2004	BIG CREEK	12	12	0	24	0	0	0	0	0	24	0	0	0	0	0	0	0	24	
		SPECIES TOTAL	12	12	0	24	0	0	0	0	0	24	0	0	0	0	0	0	0	24	
COHO																					
0	2003	ELK RIVER	2	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	2	
0	2004	ELK RIVER	8	7	2	17	0	0	0	0	0	17	0	0	0	0	0	0	0	17	
11	2004	MARMOT TRAP	18	4	0	22	0	1	0	0	0	0	21	0	0	0	0	0	0	21	
11	2004	SANDY	9,396	6,524	545	16,465	1	0	750	255	510	88	63	2,392	0	0	8,177	5,626	0	16,346	
11W	2004	MARMOT TRAP	642	383	7	1,032	0	0	0	0	0	1,032	0	0	0	0	0	0	0	1,032	
11W	2004	SANDY	138	46	3	187	0	0	0	0	0	187	0	0	0	0	0	0	0	187	
121W	2004	TUFFY CREEK	55	8	0	63	0	0	0	0	0	63	0	0	0	0	0	0	0	63	
13	2003	BIG CREEK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	2004	BIG CREEK	1,694	1,848	1,498	5,040	0	0	369	132	259	129	497	0	3,105	0	0	1,294	18	5,043	
14	2004	BONNEVILLE	12,495	11,267	386	24,148	0	0	765	1,890	1,890	0	7,974	0	14,991	0	1,145	0	38	24,148	
15	2004	CLATSOP CTY	437	698	54	1,189	0	0	0	10	20	0	68	0	0	1,095	26	0	0	1,189	
15	2004	KLASKANINE	26	31	111	168	0	0	0	0	0	23	46	0	0	9	0	90	0	168	
18	2004	GALESVILLE TRAP	156	20	15	191	0	31	4	0	0	156	4	0	0	0	0	0	0	160	
18	2004	ROCK CREEK	67	90	2	159	31	0	11	68	92	0	11	0	0	0	0	179	0	190	
32	2004	NEHALEM	845	600	0	1,445	0	0	80	80	80	68	86	0	0	0	0	1,291	0	1,445	
33	2004	SALMON RIVER	517	391	63	971	0	0	28	108	110	32	4	0	0	0	0	933	3	972	
33W	2004	SILETZ TRAP	16	10	0	26	0	0	0	0	0	26	0	0	0	0	0	0	0	26	
34	2004	TRASK	1,226	841	82	2,149	0	0	162	80	80	0	168	0	0	0	540	1,441	0	2,149	
34W	2004	TRASK	36	24	1	61	0	0	0	0	0	61	0	0	0	0	0	0	0	61	
37	2004	MORGAN CREEK	361	510	81	952	0	0	0	92	83	149	0	0	0	0	116	666	0	931	
43W	2004	ALSEA	5	5	2	12	0	0	0	0	0	12	0	0	0	0	0	0	0	12	
44	2003	BANDON	57	56	15	128	0	0	18	2	4	0	18	0	0	0	0	154	0	172	
44	2004	BANDON	156	136	53	345	0	0	7	48	51	80	7	0	0	0	0	161	0	248	
47W	2003	CEDAR CREEK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
47W	2004	CEDAR CREEK	4	2	2	8	0	0	0	0	0	8	0	0	0	0	0	0	0	8	
504	2003	CEDAR CREEK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
504	2004	BONNEVILLE	361	315	0	676	0	0	0	0	0	676	0	0	0	0	0	0	0	676	
52	2003	COLE RIVERS	1	0	0	1	0	0	314	0	0	0	314	0	0	0	0	521	0	835	
52	2004	COLE RIVERS	4,215	3,998	403	8,616	0	0	16	0	150	649	981	0	0	0	6,053	0	0	7,683	
55	2004	ROCK CREEK	75	76	0	151	0	0	4	38	39	0	4	0	0	0	0	88	0	92	
99	2004	NEHALEM	0	0	198	198	0	0	5	0	0	2	7	0	0	0	0	189	0	198	
		SPECIES TOTAL	33,009	27,890	3,523	64,422	32	32	2,533	2,803	3,368	3,460	10,273	2,392	18,096	1,104	16,057	12,633	59	64,074	

Table 10. Adult Anadromous Fish Dispositions for 2004

SPECIES/ STOCK	BROOD YEAR	FACILITY	RETURNS				TRANSFERS		POND LOSS	SPAWNED		DISPOSITION									
			MALE	FEMALE	JACK	TOTAL	IN	OUT		MALE	FEMALE	RELEASE	BURY	RENDER	SOLD	PROCESS	GIVE AWAY	STREAM ENRICH	OTHER	TOTAL	
CUTTHROAT SEARUN																					
	13	2005	BIG CREEK	3	3	0	6	0	0	0	0	0	6	0	0	0	0	0	0	0	6
			SPECIES TOTAL	3	3	0	6	0	0	0	0	0	6	0	0	0	0	0	0	0	6
FALL CHINOOK																					
	121W	2004	TUFFY CREEK	20	34	0	54	0	0	0	0	0	54	0	0	0	0	0	0	0	54
	13	2003	BIG CREEK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	13	2004	BIG CREEK	4,233	4,265	80	8,578	0	0	677	454	1,345	0	677	378	5,633	477	0	1,413	0	8,578
	14	2004	BONNEVILLE	1,191	924	48	2,163	0	0	0	0	0	0	0	0	0	2,163	0	0	0	2,163
	146	2004	SALMON RIVER	0	0	0	0	41	0	12	15	14	0	1	0	0	0	0	40	0	41
	146	2004	YAQUINA RIVER	18	23	0	41	0	41	0	0	0	0	0	0	0	0	0	0	0	0
	15	2004	KLASKANINE	3	0	3	6	0	0	0	0	0	6	0	0	0	0	0	0	0	6
	151	2004	GARDINER CR	40	58	5	103	0	0	4	36	57	0	4	0	0	0	0	99	0	103
	151	2004	ROCK CREEK	8	22	0	30	0	0	9	8	13	0	30	0	0	0	0	0	0	30
	18	2004	ROCK CREEK	58	68	0	126	0	0	8	56	62	0	126	0	0	0	0	0	0	126
	32	2004	NEHALEM	4	1	1	6	0	0	0	0	0	6	0	0	0	0	0	0	0	6
	33W	2004	SILETZ TRAP	10	4	1	15	0	0	0	0	0	15	0	0	0	0	0	0	0	15
	34	2003	TRASK	2	0	0	2	0	0	0	0	0	0	11	0	0	0	0	0	0	11
	34	2004	TRASK	392	191	37	620	0	0	74	131	127	0	74	0	0	0	0	546	0	620
	35	2003	ELK RIVER	127	166	0	293	0	0	0	110	101	0	0	0	0	0	0	259	35	294
	35	2004	ELK RIVER	507	442	137	1,086	0	0	24	439	353	0	0	0	0	0	0	1	956	957
	36	2004	SALMON RIVER	244	112	7	363	0	0	34	56	54	219	0	0	0	0	0	144	0	363
	37	2004	MORGAN CREEK	6,585	6,934	3,590	17,109	0	0	609	3,113	748	5,008	609	0	0	0	3,624	7,868	0	17,109
	43W	2004	ALSEA TRAP2	33	12	0	45	0	0	0	0	0	45	0	0	0	0	0	0	0	45
	44	2004	BANDON	60	66	6	132	0	0	4	49	56	0	4	0	0	0	0	128	0	132
	47	2003	CEDAR CREEK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	47F	2004	CEDAR CREEK	24	14	5	43	0	0	3	10	11	5	0	0	0	0	0	3	0	8
	47W	2004	CEDAR CREEK	69	55	1	125	0	0	5	27	30	63	3	0	0	0	0	2	0	68
	50	2004	MID COL STLD	2	3	0	5	0	0	0	0	0	5	0	0	0	0	0	0	0	5
	504	2004	MID COL STLD	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	1
	50W	2004	MID COL STLD	17	12	0	29	0	0	0	0	0	29	0	0	0	0	0	0	0	29
	52	2003	BIG CREEK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	52	2004	BIG CREEK	7	7	1	15	0	0	10	2	2	0	14	0	1	0	0	0	0	15
	52	2004	CLATSOP CTY	12	20	16	48	0	0	4	9	14	0	28	0	0	20	0	0	0	48
	52	2004	COLE RIVERS	31	10	0	41	0	0	0	0	0	41	0	0	0	0	0	0	0	41
	52	2004	KLASKANINE	169	261	76	506	0	0	41	117	219	0	109	0	0	157	0	240	0	506
	52	2004	YOUNGS BAY	23	61	6	90	0	0	7	20	52	0	64	0	0	26	0	0	0	90
	61	2004	INDIAN CREEK	195	256	129	580	0	0	172	46	44	103	172	0	0	0	175	130	0	580
	66	2003	ROUND BUTTE	14	2	1	17	0	0	4	0	0	23	4	0	0	0	0	0	0	27
	66	2004	ROUND BUTTE	176	41	79	296	0	0	5	0	0	322	10	0	0	0	1	0	0	333
	95	2003	BONNEVILLE	0	0	0	0	0	0	0	0	0	819	0	0	0	0	0	0	0	819
	95	2004	BONNEVILLE	16,161	7,561	795	24,517	0	0	1,136	2,605	2,697	0	8,003	0	14,256	0	2,212	0	46	24,517
	96	2004	CHETCO RIVER	138	146	62	346	0	346	0	0	0	0	0	0	0	0	0	0	0	0
	96	2004	ELK RIVER	0	0	0	0	346	0	3	137	136	0	0	0	0	0	0	231	115	346

Table 10. Adult Anadromous Fish Dispositions for 2004

SPECIES/ STOCK	BROOD YEAR	FACILITY	RETURNS				TRANSFERS		POND LOSS	SPAWNED		DISPOSITION									
			MALE	FEMALE	JACK	TOTAL	IN	OUT		MALE	FEMALE	RELEASE	BURY	RENDER	SOLD	PROCESS	GIVE AWAY	STREAM ENRICH	OTHER	TOTAL	
		SPECIES TOTAL	30,574	21,771	5,086	57,431	387	387	2,845	7,440	6,135	5,904	10,803	378	19,890	680	8,175	11,104	1,152	58,086	
SOCKEYE SALMON																					
	66	2004	ROUND BUTTE	0	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0	1	
			SPECIES TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SPRING CHINOOK																					
	102	2004	ROUND BUTTE	0	0	0	0	332	0	12	63	132	0	332	0	0	0	0	0	332	
	11W	2004	CLACKAMAS	0	0	0	0	195	0	18	72	72	31	18	129	0	0	17	0	195	
	11W	2004	MARMOT TRAP	1,704	994	5	2,703	0	195	0	0	0	2,508	0	0	0	0	0	0	2,508	
	11W	2004	SANDY	67	35	2	104	0	0	0	0	0	104	0	0	0	0	0	0	104	
	15	2004	CLATSOP CTY	29	37	2	68	0	0	0	0	0	0	18	0	0	38	12	0	68	
	15	2004	KLASKANINE	42	74	2	118	0	0	0	0	0	0	0	0	0	118	0	0	118	
	19	2004	CLACKAMAS	3,129	3,026	92	6,247	4,984	0	182	168	332	361	110	2,452	6,680	0	418	1,227	1	11,249
	19	2004	FARADAY TRAP	2,751	2,209	24	4,984	0	4,984	0	0	0	0	0	0	0	0	0	0	0	
	19	2004	MARMOT TRAP	1,515	1,072	6	2,593	0	2,592	0	0	0	0	1	0	0	0	0	0	1	
	19	2004	SANDY	1,621	1,227	96	2,944	2,592	0	218	0	0	106	49	1,126	0	0	3,963	292	0	5,536
	200W	2004	LOOKINGGLASS	0	0	0	0	115	0	32	35	52	8	107	0	0	0	0	0	115	
	200W	2004	LOSTINE WEIR	392	466	213	1,071	0	115	0	0	0	956	0	0	0	0	0	0	956	
	201	2004	CAT.CR.WEIR	298	276	59	633	0	203	0	0	0	404	3	0	0	23	0	0	430	
	201	2004	LOOKINGGLASS	0	0	0	0	203	0	7	0	0	46	97	0	0	60	0	0	203	
	201W	2004	CAT.CR.WEIR	45	41	7	93	0	21	0	0	0	70	2	0	0	0	0	0	72	
	201W	2004	LOOKINGGLASS	0	0	0	0	21	0	2	7	9	0	19	0	0	0	0	0	19	
	21	2004	MARION FORKS	2,433	1,583	36	4,052	0	0	111	283	283	3,248	10	570	0	0	224	0	4,052	
	22	2003	BIG CREEK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	22	2004	BIG CREEK	137	109	12	258	0	0	0	0	0	56	33	0	0	87	82	0	258	
	22	2004	DEXTER PONDS	6,229	4,954	192	11,375	0	2,499	0	0	0	6,311	0	0	0	2,565	0	0	8,876	
	22	2004	WILLAMETTE	0	0	0	0	2,499	0	562	832	832	0	2,499	0	0	0	0	0	2,499	
	23	2004	MCKENZIE	3,885	2,718	44	6,647	0	0	300	492	497	3,695	0	1,725	0	0	1,227	0	6,647	
	24	2004	SOUTH SANTIAM	5,574	4,967	59	10,600	0	258	483	506	8,564	262	474	0	0	1,440	616	0	11,356	
	29	2004	IMNAHA PD	361	526	409	1,296	0	885	27	0	0	384	27	0	0	0	0	0	411	
	29	2004	LOOKINGGLASS	0	0	8	8	537	0	32	98	105	276	269	0	0	0	0	0	545	
	29	2004	WALLOWA	0	0	0	0	303	0	35	0	0	37	35	0	0	231	0	0	303	
	33W	2004	SILETZ TRAP	167	135	56	358	0	0	0	0	0	358	0	0	0	0	0	0	358	
	34	2003	TRASK	0	0	0	0	0	0	0	0	0	0	37	0	0	0	0	0	37	
	34	2004	TRASK	761	639	127	1,527	0	0	390	184	184	0	213	553	0	0	761	0	1,527	
	34W	2004	TRASK	40	8	1	49	0	0	0	0	0	49	0	0	0	0	0	0	49	
	43	2004	ALSEA TRAP2	14	4	0	18	0	0	0	0	0	18	0	0	0	0	0	0	18	
	47	2003	CEDAR CREEK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	47	2004	CEDAR CREEK	573	572	71	1,216	0	0	20	49	51	1,104	20	0	0	0	116	0	1,240	
	47W	2004	CEDAR CREEK	26	19	0	45	0	0	0	0	0	45	0	0	0	0	0	0	45	
	50	2004	MID COL STLD	23	45	54	122	0	110	0	0	0	4	8	0	0	0	0	0	12	
	50	2004	PARKDALE	0	0	0	0	110	0	10	15	29	30	104	0	0	0	0	0	134	
	504	2004	MID COL STLD	13	9	27	49	0	0	5	0	0	6	43	0	0	0	0	0	49	
	50W	2004	MID COL STLD	109	85	16	210	0	0	2	0	0	207	3	0	0	0	0	0	210	

Table 10. Adult Anadromous Fish Dispositions for 2004

SPECIES/ STOCK	BROOD YEAR	FACILITY	RETURNS				TRANSFERS		POND LOSS	SPAWNED		DISPOSITION									
			MALE	FEMALE	JACK	TOTAL	IN	OUT		MALE	FEMALE	RELEASE	BURY	RENDER	SOLD	PROCESS	GIVE AWAY	STREAM ENRICH	OTHER	TOTAL	
52	2004	COLE RIVERS	7,250	8,068	1,649	16,967	0	0	770	369	736	4,068	3,236	0	7,712	0	3,359	0	13	18,388	
55	2004	ROCK CREEK	189	255	11	455	0	0	182	119	134	0	182	0	0	0	0	273	0	455	
66	2004	MID COL STLD	11	8	243	262	0	0	21	0	0	146	116	0	0	0	0	0	0	262	
66	2004	ROUND BUTTE GRANDE RONDE WEIR	145	210	234	589	0	0	30	122	165	23	353	0	0	0	143	74	0	593	
80	2004	LOOKINGGLASS GRANDE RONDE WEIR	169	207	57	433	0	1	0	0	0	400	4	0	0	0	28	0	0	432	
80	2004	LOOKINGGLASS GRANDE RONDE WEIR	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	
80W	2004	LOOKINGGLASS	17	11	5	33	0	16	0	0	0	17	0	0	0	0	0	0	0	17	
80W	2004	LOOKINGGLASS	0	0	0	0	16	0	2	6	7	0	17	0	0	0	0	0	0	17	
81	2004	LOOKINGGLASS	73	58	14	145	0	0	12	54	53	31	131	0	0	0	80	0	0	242	
SPECIES TOTAL			39,792	34,647	3,833	78,272	11,908	11,621	3,240	3,451	4,179	33,671	8,358	7,029	14,392	125	13,749	3,600	15	80,939	
SUMMER STEELHEAD																					
121	2005	TUFFY CREEK	7	6	0	13	0	0	0	0	0	13	0	0	0	0	0	0	0	13	
23	2004	MCKENZIE	432	556	0	988	0	0	0	0	0	898	0	90	0	0	0	0	0	988	
24	2004	CLACKAMAS	25	24	0	49	0	0	0	0	0	22	21	0	0	0	2	0	0	45	
24	2004	MARMOT TRAP	21	39	0	60	0	58	0	0	0	2	0	0	0	0	0	0	0	2	
24	2004	MID COL STLD	36	14	0	50	0	0	3	0	0	48	3	0	0	0	0	0	0	51	
24	2004	SANDY	619	664	0	1,283	58	0	12	0	0	804	12	0	0	0	551	0	0	1,367	
24	2004	SOUTH SANTIAM	-26	33	0	7	0	0	696	229	428	0	835	0	0	0	0	849	0	1,684	
24	2005	CLACKAMAS	1,169	1,419	0	2,588	0	0	0	0	0	2,694	5	44	0	0	371	16	4	3,134	
24	2005	DEXTER PONDS	354	473	0	827	0	0	0	0	0	827	0	0	0	0	0	0	0	827	
24	2005	LEABURG	454	754	0	1,208	0	0	0	0	0	1,208	0	0	0	0	0	0	0	1,208	
24	2005	MARION FORKS	6,395	1,425	0	7,820	0	0	0	0	0	4,152	22	0	0	0	3,646	0	0	7,820	
24	2005	MID COL STLD	845	952	0	1,797	0	0	38	0	0	1,756	41	0	0	0	0	0	0	1,797	
24	2005	SOUTH SANTIAM	2,989	3,287	0	6,276	0	0	39	18	162	6,167	258	0	0	0	170	0	0	6,595	
24W	2004	MARMOT TRAP	150	193	0	343	0	0	0	0	0	343	0	0	0	0	0	0	0	343	
24W	2004	SANDY	1	2	0	3	0	0	0	0	0	3	0	0	0	0	0	0	0	3	
29	2004	LITTLE SHEEP	1,398	1,356	0	2,754	0	0	0	96	95	2,542	212	0	0	0	0	0	0	2,754	
33	2004	CEDAR CREEK	0	0	0	0	0	0	21	33	57	24	27	0	0	0	0	86	0	137	
33	2004	SILETZ TRAP	14	4	9	27	0	0	0	0	0	1	0	0	0	0	0	17	0	18	
33	2005	CEDAR CREEK	0	0	0	0	138	0	6	0	0	0	4	0	0	0	0	2	0	6	
33	2005	SALMON RIVER	3	4	0	7	0	0	0	0	0	8	0	0	0	0	0	0	0	8	
33	2005	SILETZ TRAP	2,423	1,833	56	4,312	0	138	0	0	0	1,500	20	0	0	0	2,307	345	0	4,172	
33W	2004	SILETZ TRAP	78	64	0	142	0	0	0	0	0	142	0	0	0	0	0	0	0	142	
33W	2005	SILETZ TRAP	277	280	6	563	0	0	0	0	0	563	0	0	0	0	0	0	0	563	
47	2004	CEDAR CREEK	0	0	0	0	0	0	28	48	56	14	27	0	0	0	0	108	0	149	
47	2004	TUFFY CREEK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
47	2005	CEDAR CREEK	870	863	0	1,733	0	0	14	0	0	2,069	8	0	0	0	276	13	0	2,366	
47	2005	TRASK	10	6	0	16	0	0	0	0	0	0	16	0	0	0	0	0	0	16	
47	2005	TUFFY CREEK	11	17	0	28	0	0	0	0	0	24	4	0	0	0	0	0	0	28	
47W	2005	CEDAR CREEK	2	1	0	3	0	0	0	0	0	3	0	0	0	0	0	0	0	3	
50	2004	MID COL STLD	86	48	0	134	0	0	1	0	0	133	1	0	0	0	0	0	0	134	
50	2005	MID COL STLD	430	532	0	962	0	1	6	0	0	952	7	0	0	0	0	0	0	959	

Table 10. Adult Anadromous Fish Dispositions for 2004

SPECIES/ STOCK	BROOD YEAR	FACILITY	RETURNS				TRANSFERS		POND LOSS	SPAWNED		DISPOSITION									
			MALE	FEMALE	JACK	TOTAL	IN	OUT		MALE	FEMALE	RELEASE	BURY	RENDER	SOLD	PROCESS	GIVE AWAY	STREAM ENRICH	OTHER	TOTAL	
50	2005	PARKDALE	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
504	2004	BONNEVILLE	13	5	0	18	0	0	0	0	0	18	0	0	0	0	0	0	0	18	
504	2004	MID COL STLD	4	5	0	9	0	0	0	0	0	8	1	0	0	0	0	0	9		
504	2005	MID COL STLD	24	18	0	42	0	0	2	0	0	39	3	0	0	0	0	0	42		
504W	2004	BONNEVILLE	1	2	0	3	0	0	0	0	0	3	0	0	0	0	0	0	3		
50W	2004	MID COL STLD	10	15	0	25	0	10	0	0	0	15	0	0	0	0	0	0	15		
50W	2004	PARKDALE	0	0	0	0	10	0	2	1	0	26	8	0	0	0	0	1	35		
50W	2005	MID COL STLD	67	112	0	179	0	33	0	0	0	146	0	0	0	0	0	0	146		
50W	2005	PARKDALE	0	0	0	0	33	0	3	0	0	0	0	0	0	0	0	3	3		
52	2004	COLE RIVERS	364	399	0	763	0	0	252	206	220	6,210	313	0	0	0	0	35	6,558		
52	2005	COLE RIVERS	1,946	2,410	0	4,356	0	0	102	0	0	4,537	102	0	0	0	0	0	4,639		
55	2004	ROCK CREEK	-63	16	0	-47	0	0	36	44	71	0	47	0	0	0	0	113	0	160	
55	2005	ROCK CREEK	223	241	0	464	0	0	33	0	0	253	33	0	0	0	0	0	286		
56	2004	BIG CANYON TRAP	746	757	0	1,503	0	0	0	0	0	430	578	0	0	0	626	0	0	1,634	
56	2004	WALLOWA	2,036	1,126	0	3,162	0	0	19	230	231	97	1,545	0	0	0	1,626	0	0	3,268	
56	2005	WALLOWA	62	46	0	108	0	0	3	0	0	0	3	0	0	0	0	0	3		
66	2004	ROUND BUTTE	687	985	0	1,672	0	0	68	140	140	98	818	0	0	0	986	0	0	1,902	
66	2005	ROUND BUTTE	588	897	0	1,485	0	0	0	0	0	48	3	0	0	0	1,274	0	0	1,325	
81	2004	LOOKINGGLASS	62	75	0	137	0	0	0	0	0	134	0	0	0	0	3	0	0	137	
		SPECIES TOTAL	25,843	21,958	71	47,872	240	240	1,384	1,045	1,460	38,974	4,977	134	0	0	11,838	1,549	43	57,515	
WINTER STEELHEAD																					
11	2004	MARMOT TRAP	4	4	0	8	0	1	0	0	0	0	7	0	0	0	0	0	0	7	
11	2004	SANDY	413	239	0	652	1	0	23	55	45	523	64	66	0	0	0	0	0	653	
11	2005	SANDY	0	1	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	1	
11W	2004	MARMOT TRAP	461	395	0	856	0	75	0	0	0	781	0	0	0	0	0	0	0	781	
11W	2004	SANDY	6	6	0	12	75	0	2	24	28	85	2	0	0	0	0	0	0	87	
11W	2005	MARMOT TRAP	17	11	0	28	0	0	0	0	0	28	0	0	0	0	0	0	0	28	
121	2004	TRASK	6	4	0	10	0	0	0	0	0	10	0	0	0	0	0	0	0	10	
121W	2004	HUGHEY CR ACC.	52	56	1	109	0	109	0	0	0	0	0	0	0	0	0	0	0	0	
121W	2004	TRASK	0	0	0	0	109	0	7	0	0	108	7	0	0	0	0	0	0	115	
121W	2004	TUFFY CREEK	12	7	0	19	0	0	0	0	0	19	0	0	0	0	0	0	0	19	
121W	2005	TUFFY CREEK	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	1	
122	2004	CLACKAMAS	881	711	0	1,592	0	0	7	36	40	1,498	145	0	0	0	255	0	0	1,898	
122W	2004	CLACKAMAS	22	16	0	38	37	0	0	0	0	75	0	0	0	0	0	0	0	75	
122W	2004	FARADAY TRAP	18	19	0	37	0	37	0	0	0	0	0	0	0	0	0	0	0	0	
13	2004	BIG CREEK	363	393	2	758	0	0	4	108	91	466	53	0	0	0	0	589	0	1,108	
13	2004	SANDY	6	8	0	14	0	0	0	0	0	14	0	0	0	0	0	0	0	14	
13	2005	BIG CREEK	123	86	2	211	0	0	0	0	0	76	0	0	0	0	0	0	0	76	
144	2004	BANDON	53	50	0	103	0	0	18	37	37	1	18	0	0	0	0	84	0	103	
15	2004	KLASKANINE	109	91	0	200	0	0	0	0	0	268	0	0	0	0	0	61	0	329	
15	2005	KLASKANINE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
18	2004	CANYONVILLE	103	129	0	232	0	0	0	0	0	232	0	0	0	0	0	0	0	232	
18	2004	GALESVILLE TRAP	324	220	0	544	0	0	0	0	0	544	0	0	0	0	0	0	0	544	

Table 10. Adult Anadromous Fish Dispositions for 2004

SPECIES/ STOCK	BROOD YEAR	FACILITY	RETURNS				TRANSFERS		POND LOSS	SPAWNED		DISPOSITION								
			MALE	FEMALE	JACK	TOTAL	IN	OUT		MALE	FEMALE	RELEASE	BURY	RENDER	SOLD	PROCESS	GIVE AWAY	STREAM ENRICH	OTHER	TOTAL
18	2004	ROCK CREEK	89	141	0	230	0	0	47	72	101	0	230	0	0	0	0	0	0	230
20	2004	CLACKAMAS	8	40	0	48	0	0	0	0	0	47	1	0	0	0	2	0	0	50
20	2004	SANDY	1	3	0	4	0	0	0	0	0	4	0	0	0	0	0	0	4	
21	2004	MARION FORKS	171	149	0	320	0	0	0	0	0	320	0	0	0	0	0	0	320	
24	2004	SOUTH SANTIAM	440	563	0	1,003	0	0	1	0	0	1,002	1	0	0	0	0	0	1,003	
24	2005	SOUTH SANTIAM	17	16	0	33	0	0	0	0	0	33	0	0	0	0	0	0	33	
32	2004	NEHALEM	278	428	3	709	0	0	4	92	91	888	10	0	0	0	0	94	992	
32	2005	NEHALEM	173	117	0	290	0	0	1	60	60	127	1	0	0	0	0	0	128	
33	2004	SILETZ TRAP	141	84	2	227	0	6	0	0	0	123	4	0	0	0	0	94	221	
33	2005	SILETZ TRAP	1	7	0	8	0	0	0	0	0	3	0	0	0	0	0	5	8	
33W	2004	ALSEA	0	0	0	0	70	0	14	70	70	72	14	0	0	0	0	0	86	
33W	2004	SILETZ TRAP	130	94	2	226	0	70	0	0	0	156	0	0	0	0	0	0	156	
33W	2005	ALSEA	0	0	0	0	13	0	1	0	0	0	1	0	0	0	0	0	1	
33W	2005	SILETZ TRAP	9	11	0	20	0	13	0	0	0	7	0	0	0	0	0	0	7	
34	2004	TRASK	14	18	0	32	0	0	0	0	0	32	0	0	0	0	0	0	32	
37	2004	MORGAN CREEK	252	253	5	510	0	0	21	99	77	316	21	0	0	0	0	180	517	
38	2004	LETZ CREEK	30	30	0	60	0	0	0	0	0	60	0	0	0	0	0	0	60	
38	2004	MUNSEL CR TRAP	102	84	0	186	0	0	0	0	0	186	0	0	0	0	0	0	186	
43	2004	ALSEA	1,251	1,058	7	2,316	0	0	77	608	602	2,609	4	0	0	0	0	391	3,014	
43	2004	ALSEA TRAP2	505	358	6	869	0	0	0	51	56	865	0	0	0	0	0	21	886	
43	2004	FALL CREEK	31	13	0	44	0	0	1	0	0	0	0	0	0	0	0	44	44	
43	2005	ALSEA	107	91	0	198	0	0	9	64	69	0	1	0	0	0	0	8	9	
43	2005	ALSEA TRAP2	47	43	0	90	0	0	0	0	0	95	0	0	0	0	0	0	95	
43W	2004	ALSEA	20	15	0	35	18	0	18	32	34	36	8	0	0	0	0	2	54	
43W	2004	ALSEA TRAP2	13	15	0	28	0	0	0	0	0	28	0	0	0	0	0	0	28	
43W	2004	FALL CREEK	36	26	0	62	0	18	0	0	0	44	0	0	0	0	0	0	44	
43W	2005	ALSEA	5	2	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	
43W	2005	ALSEA TRAP2	6	3	0	9	0	0	0	0	0	9	0	0	0	0	0	0	9	
44	2004	BANDON	103	86	0	189	0	0	13	52	52	72	13	0	0	0	0	104	189	
47	2004	CEDAR CREEK	332	530	2	864	0	0	19	58	58	668	3	0	0	0	0	455	1,126	
47	2004	TRASK	126	108	0	234	0	0	0	0	0	234	0	0	0	0	0	0	234	
47	2004	TUFFY CREEK	14	10	0	24	0	0	0	0	0	24	0	0	0	0	0	0	24	
47	2005	CEDAR CREEK	105	113	0	218	0	0	3	20	40	107	3	0	0	0	0	0	110	
47F	2004	CEDAR CREEK	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	1	
47F	2005	CEDAR CREEK	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	
47W	2004	CEDAR CREEK	41	46	0	87	0	0	6	50	50	81	6	0	0	0	0	0	87	
47W	2005	CEDAR CREEK	0	1	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	
50	2004	HOOD RIVER	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	
50	2004	MID COL STLD	409	425	0	834	0	4	9	0	0	823	9	0	0	0	0	0	832	
50	2004	PARKDALE	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	
50	2005	MID COL STLD	14	26	0	40	0	0	0	0	0	39	1	0	0	0	0	0	40	
504	2004	MID COL STLD	115	88	0	203	0	0	6	0	0	197	6	0	0	0	0	0	203	
504	2005	MID COL STLD	2	4	0	6	0	0	0	0	0	6	0	0	0	0	0	0	6	

Table 10. Adult Anadromous Fish Dispositions for 2004

SPECIES/ STOCK	BROOD YEAR	FACILITY	RETURNS				TRANSFERS		POND LOSS	SPAWNED		DISPOSITION									
			MALE	FEMALE	JACK	TOTAL	IN	OUT		MALE	FEMALE	RELEASE	BURY	RENDER	SOLD	PROCESS	GIVE AWAY	STREAM ENRICH	OTHER	TOTAL	
50W	2004	MID COL STLD	223	356	0	579	0	81	0	0	0	498	0	0	0	0	0	0	0	0	498
50W	2004	PARKDALE	0	0	0	0	81	0	1	1	0	72	9	0	0	0	0	0	0	0	81
50W	2005	MID COL STLD	5	10	0	15	0	0	0	0	0	15	0	0	0	0	0	0	0	0	15
52	2004	COLE RIVERS	1,726	2,070	0	3,796	0	0	296	155	162	3,332	388	0	0	0	0	0	0	76	3,796
62	2004	COLE RIVERS	1,355	1,258	0	2,613	0	0	243	162	176	2,181	430	0	0	0	0	0	0	2	2,613
88	2004	EEL CR TRAP	172	158	3	333	0	0	0	20	10	310	0	0	0	0	0	0	32	0	342
96	2004	CHETCO RIVER	43	36	0	79	0	79	0	0	0	0	0	0	0	0	0	0	0	0	0
96	2004	ELK RIVER	0	0	0	0	79	0	24	41	23	0	0	0	0	0	0	0	0	99	99
96	2005	CHETCO RIVER	11	11	0	22	0	22	0	0	0	0	0	0	0	0	0	0	0	0	0
96	2005	ELK RIVER	0	0	0	0	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0
99	2004	NEHALEM	169	217	7	393	0	0	7	72	72	523	10	0	0	0	0	0	0	0	533
99	2005	NEHALEM	98	92	0	190	0	0	0	56	56	141	0	0	0	0	0	0	0	0	141
		SPECIES TOTAL	11,915	11,753	43	23,711	509	515	882	2,095	2,100	21,118	1,470	66	0	0	257	2,164	195	25,270	

*This table was updated on 2/28/2019 due to discrepancies in the original table.

Table 10. Adult Anadromous Fish Dispositions for 2004

SPECIES/ STOCK	COLLECTION SITE	RETURNS				POND MORTALITY	SPAWNED		DISPOSITION								
		MALE	FEMALE	JACK	TOTAL		MALE	FEMALE	RELEASE	BURY	RENDER	SOLD	PROCESS	GIVE AWAY	STREAM ENRICHMENT	OTHER	TOTAL
FALL CHINOOK																	
013	BIG CREEK	4,233	4,265	80	8,578	677	454	1,345	0	0	378	5,633	477	0	1,413	677	8,578
014	BONNEVILLE	1,191	924	48	2,163	0	0	0	0	0	0	0	0	2,163	0	0	2,163
015	KLASKANINE	0	0	0	6	0	0	0	6	0	0	0	0	0	0	0	6
018	ROCK CREEK	58	68	0	126	8	56	62	0	126	0	0	0	0	0	0	126
032	NEHALEM	4	1	1	6	0	0	0	6	0	0	0	0	0	0	0	6
033W	SILETZ TRAP	10	4	1	15	0	0	0	15	0	0	0	0	0	0	0	15
034	TRASK	392	191	37	620	0	131	127	0	74	0	0	0	0	546	0	620
035	ELK RIVER	635	660	137	1,432	29	619	616	0	0	0	0	0	1,432	0	0	1,432
036	SALMON RIVER	244	112	7	363	0	130	114	219	0	0	0	0	0	144	0	363
037	STEP	6,585	6,934	3,590	17,109	609	2,913	2,732	5,208	609	0	0	0	3,624	7,668	0	17,109
043	ALSEA TRAP2	33	12	0	45	0	0	0	45	0	0	0	0	0	0	0	45
044	BANDON	62	67	6	135	4	49	56	0	3	0	0	0	0	132	0	135
047F	CEDAR CREEK	24	14	5	43	3	20	22	5	0	0	0	0	0	0	38	43
047W	CEDAR CREEK	69	55	1	125	5	54	30	63	0	0	0	0	0	0	62	125
052	BIG CREEK	7	7	1	15	10	2	2	0	0	0	1	0	0	0	14	15
052	CEDC	12	20	16	48	4	9	14	0	0	0	0	0	20	0	28	48
052	COLE RIVERS	31	10	0	41	0	0	0	0	41	0	0	0	0	0	0	41
052	KLASKANINE	155	250	95	500	94	117	221	0	0	0	0	157	45	242	56	500
052	YOUNGS BAY	54	100	0	154	7	20	52	0	0	0	0	0	26	0	64	90
066	ROUND BUTTE	198	43	95	336	5	0	0	325	10	0	0	0	1	0	0	336
095	BONNEVILLE	16,161	7,562	795	24,518	0	5,210	5,396	0	8,004	0	14,256	0	2,258	0	0	24,518
096	ELK RIVER	0	0	0	0	6	133	140	0	0	0	0	0	346	0	0	346
096	STEP	134	150	62	346	0	0	0	0	0	0	0	0	0	0	0	346
121W	TUFFY CREEK	20	34	0	54	0	0	0	54	0	0	0	0	0	0	0	54
146	SALMON RIVER	0	0	0	0	0	27	28	0	3	0	0	0	0	47	0	50
146	STEP	18	23	1	42	0	0	0	0	0	0	0	0	0	0	0	42
151	ROCK CREEK	8	22	0	30	9	8	13	0	30	0	0	0	0	0	0	30
SPECIES TOTAL		30,338	21,528	4,978	56,850	1,470	9,952	10,970	5,946	8,900	378	19,890	634	9,915	10,192	939	56,794
SOCKEYE SALMON																	
066	ROUND BUTTE	0	1	0	1	0	0	0	1	0	0	0	0	0	0	0	1
SPECIES TOTAL		0	1	0	1	0	0	0	1	0	0	0	0	0	0	0	1

Table 10. Adult Anadromous Fish Dispositions for 2004

SPECIES/ STOCK	COLLECTION SITE	DISPOSITION																
		RETURNS				POND MORTALITY	SPAWNED		RELEASE	BURY	RENDER	SOLD	PROCESS	GIVE AWAY	STREAM			TOTAL
		MALE	FEMALE	JACK	TOTAL		MALE	FEMALE							ENRICHMENT	OTHER		
SPRING CHINOOK																		
011W	CLACKAMAS	0	1	0	0	18	72	72	31	18	129	0	0	0	17	0	195	
011W	MARMOT TRAP	1,704	994	5	2,703	0	0	0	2,508	0	0	0	0	0	0	0	2,508	
011W	SANDY	67	35	2	104	0	0	0	104	0	0	0	0	0	0	0	104	
015	CEDC	29	37	2	68	0	0	0	0	0	0	0	50	0	18	68		
015	KLASKANINE	42	74	2	118	0	0	0	0	0	0	0	118	0	0	118		
019	CLACKAMAS	3,144	3,029	92	6,265	182	168	332	361	110	2,452	6,680	0	419	1,227	0	11,249	
019	MARMOT TRAP	1,515	1,072	6	2,593	0	0	0	0	1	0	0	0	0	0	0	1	
019	SANDY	1,621	1,227	96	2,944	43	0	0	106	49	1,126	0	0	3,963	292	0	5,536	
021	MARION FORKS	2,461	1,708	8	4,177	335	354	380	3,456	10	570	0	0	0	224	0	4,260	
022	BIG CREEK	137	109	13	259	0	0	0	56	0	0	0	87	82	0	33	258	
022	DEXTER PD	6,229	4,954	192	11,375	0	0	0	6,311	0	0	0	0	2,565	0	0	8,876	
022	WILLAMETTE	0	0	0	0	562	832	832	0	2,499	0	0	0	0	0	0	2,499	
023	MCKENZIE	3,885	2,718	44	6,647	128	492	497	3,695	0	1,725	0	0	1,227	0	0	6,647	
024	SO. SANTIAM	5,997	5,300	59	11,356	258	493	506	8,564	257	117	0	0	1,440	0	978	11,356	
029	IMNAHA PD	361	521	369	1,251	27	0	0	384	27	0	0	0	0	0	0	411	
029	LOOKINGGLASS	0	0	8	8	32	98	105	276	269	0	0	0	0	0	0	545	
029	WALLOWA	0	0	0	0	35	0	0	37	35	0	0	0	232	0	0	304	
033W	SILETZ TRAP	167	135	56	358	0	0	0	358	0	0	0	0	0	0	0	358	
034	TRASK	761	639	127	1,527	0	368	368	0	213	553	0	0	0	686	75	1,527	
034W	TRASK	40	8	1	49	0	0	0	49	0	0	0	0	0	0	0	49	
043	ALSEA TRAP2	14	4	0	18	0	0	0	18	0	0	0	0	0	0	0	18	
047	CEDAR CREEK	593	589	73	1,255	20	98	102	1,104	0	0	0	0	0	0	151	1,255	
047W	CEDAR CREEK	26	19	0	45	0	0	0	45	0	0	0	0	0	0	0	45	
050	MID COL STLD	18	39	45	102	0	0	0	0	0	0	0	0	0	0	0	0	
050	PARKDALE	0	0	0	0	0	15	29	30	0	0	0	0	0	0	0	30	
050W	PARKDALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
052	COLE RIVERS	7,882	8,739	1,767	18,388	770	369	736	4,068	3,236	0	7,712	0	3,372	0	0	18,388	
055	ROCK CREEK	189	255	11	455	182	119	134	0	182	0	0	0	0	273	0	455	
066	ROUND BUTTE	146	213	234	593	30	122	165	23	354	0	0	0	143	0	74	594	
080W	LOOKINGGLASS	0	0	0	0	2	6	7	0	17	0	0	0	0	0	0	17	
081	LOOKINGGLASS	131	122	16	269	10	54	33	178	126	0	0	0	75	0	0	379	
102	ROUND BUTTE	0	0	0	0	12	63	132	0	332	0	0	0	0	0	0	332	
200W	LOOKINGGLASS	0	0	0	0	32	35	52	8	107	0	0	0	0	0	0	115	
200W	LOSTINE WEIR	392	467	213	1,072	0	0	0	956	0	0	0	0	0	0	0	956	
201	LOOKINGGLASS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
201W	LOOKINGGLASS	0	0	0	0	2	7	9	0	19	0	0	0	0	0	0	19	
SPECIES TOTAL		37,551	33,008	3,441	73,999	2,680	3,765	4,491	32,726	7,861	6,672	14,392	87	13,686	2,719	1,329	79,472	

Table 10. Adult Anadromous Fish Dispositions for 2004

SPECIES/ STOCK	COLLECTION SITE	RETURNS				POND MORTALITY	SPAWNED		DISPOSITION								
		MALE	FEMALE	JACK	TOTAL		MALE	FEMALE	RELEASE	BURY	RENDER	SOLD	PROCESS	GIVE AWAY	STREAM ENRICHMENT	OTHER	TOTAL
SUMMER STEELHEAD																	
022	DEXTER PD	304	429	0	733	0	0	0	733	0	0	0	0	0	0	0	733
023	MCKENZIE	432	556	0	988	0	0	0	898	0	90	0	0	0	0	0	988
024	CLACKAMAS	470	573	0	1,043	0	0	0	971	17	0	0	0	49	0	6	1,043
024	LEABURG	232	238	0	470	0	0	0	470	0	0	0	0	0	0	0	470
024	MARION FORKS	3,289	1,402	0	4,691	0	0	0	3,616	0	0	0	0	775	0	0	4,391
024	MARMOT TRAP	21	39	0	60	0	0	0	2	0	0	0	0	0	0	0	2
024	MID COL STLD	1,095	1,735	0	2,830	25	0	0	2,804	0	0	0	0	0	0	25	2,829
024	SANDY	618	665	0	1,283	12	0	0	752	12	0	0	0	551	0	0	1,315
024	SO. SANTIAM	3,040	3,080	0	6,120	746	301	500	4,526	866	172	0	0	7	849	0	6,420
024W	MARMOT TRAP	150	193	0	343	0	0	0	343	0	0	0	0	0	0	0	343
024W	SANDY	1	2	0	3	0	0	0	3	0	0	0	0	0	0	0	3
029	LITTLE SHEEP	1,398	1,356	0	2,754	0	96	95	2,542	212	0	0	0	0	0	0	2,754
033	CEDAR CREEK	0	0	0	0	5	63	114	24	0	0	0	0	0	86	32	142
033	SALMON RIVER	6	7	0	13	0	0	0	13	0	0	0	0	0	0	0	13
033	SILETZ TRAP	2,041	2,027	143	4,211	1	0	0	1,225	5	0	0	0	1,857	831	831	4,749
033W	SILETZ TRAP	539	652	48	1,239	0	0	0	1,171	0	0	0	0	0	0	0	1,171
047	CEDAR CREEK	1,625	1,585	3	3,213	2	93	112	2,804	0	0	0	0	272	108	29	3,213
047	TRASK	2	0	0	2	0	0	0	2	0	0	0	0	0	0	0	2
047	TUFFY CREEK	19	15	0	34	0	0	0	34	0	0	0	0	0	0	0	34
050	MID COL STLD	321	395	0	716	8	0	0	708	0	0	0	0	0	0	8	716
050W	MID COL STLD	60	127	0	187	1	0	0	141	0	0	0	0	0	0	1	142
050W	PARKDALE	0	0	0	0	6	9	18	26	0	0	0	0	0	0	6	32
052	COLE RIVERS	4,842	5,275	0	10,117	387	267	282	9,634	256	0	0	0	35	0	192	10,117
055	ROCK CREEK	189	274	0	463	157	48	72	174	168	0	0	0	8	113	0	463
056	BIG CANYON	836	802	0	1,638	0	0	0	434	578	0	0	0	626	0	0	1,638
056	WALLOWA	2,091	1,176	0	3,267	19	230	231	97	1,543	0	0	0	1,627	0	0	3,267
066	ROUND BUTTE	1,511	2,188	0	3,699	68	140	140	121	818	0	0	0	2,760	0	0	3,699
081	LOOKINGGLASS	73	79	0	152	0	0	0	149	0	0	0	0	3	0	0	152
504	BONNEVILLE	14	7	0	21	0	0	0	21	0	0	0	0	0	0	0	21
505	MID COL STLD	35	54	0	89	1	0	0	88	0	0	0	0	0	0	1	89
SPECIES TOTAL		25,254	24,931	194	50,379	1,438	1,247	1,564	34,526	4,475	262	0	0	8,570	1,987	1,131	50,951

Table 10. Adult Anadromous Fish Dispositions for 2004

SPECIES/ STOCK	COLLECTION SITE	RETURNS				POND MORTALITY	SPAWNED		DISPOSITION								
		MALE	FEMALE	JACK	TOTAL		MALE	FEMALE	RELEASE	BURY	RENDER	SOLD	PROCESS	GIVE AWAY	STREAM ENRICHMENT	OTHER	TOTAL
WINTER STEELHEAD																	
011	MARMOT TRAP	4	4	0	8	0	0	0	0	7	0	0	0	0	0	0	7
011	SANDY	419	241	0	660	11	85	69	531	64	66	0	0	0	0	0	661
011W	MARMOT TRAP	464	405	0	869	0	0	0	794	0	0	0	0	0	0	0	794
011W	SANDY	6	6	0	12	2	24	21	85	2	0	0	0	0	0	0	87
013	BIG CREEK	800	608	3	1,411	4	108	91	769	0	0	0	0	0	589	53	1,411
013	SANDY	8	11	0	19	0	0	0	19	0	0	0	0	0	0	0	19
015	KLASKANINE	229	118	0	347	0	0	0	268	0	0	0	0	61	0	0	329
018	ROCK CREEK	89	141	0	230	47	72	101	0	230	0	0	0	0	0	0	230
020	CLACKAMAS	11	45	0	56	0	0	0	53	1	0	0	0	2	0	0	56
020	SANDY	1	3	0	4	0	0	0	4	0	0	0	0	0	0	0	4
021	MARION FORKS	171	149	0	320	0	0	0	320	0	0	0	0	0	0	0	320
024	SO. SANTIAM	445	572	0	1,017	1	0	0	1,016	1	0	0	0	0	0	0	1,017
032	NEHALEM	598	839	3	1,440	7	150	130	1,331	15	0	0	0	0	94	0	1,440
033	SILETZ TRAP	110	96	2	208	0	0	0	109	4	0	0	0	0	86	0	199
033W	ALSEA	0	0	0	0	14	70	70	72	14	0	0	0	0	0	0	86
033W	SILETZ TRAP	104	97	2	203	0	0	0	117	0	0	0	0	0	0	0	117
034	TRASK	17	20	0	37	0	0	0	37	0	0	0	0	0	0	0	37
037	STEP	255	257	5	517	21	99	77	316	21	0	0	0	0	180	180	697
038	STEP	132	114	0	246	0	132	114	246	0	0	0	0	0	0	0	246
043	ALSEA	1,801	1,207	7	3,015	77	695	695	2,609	4	0	0	0	10	392	0	3,015
043	ALSEA TRAP2	575	406	6	987	40	38	43	926	0	0	0	0	0	61	0	987
043	FALL CREEK	31	13	0	44	1	0	0	0	0	0	0	0	0	44	0	44
043W	ALSEA	21	16	0	37	18	26	22	28	8	0	0	0	0	2	8	46
043W	ALSEA TRAP2	14	17	0	31	1	6	12	39	0	0	0	0	0	1	0	40
043W	FALL CREEK	36	26	0	62	0	0	0	44	0	0	0	0	0	0	0	44
044	BANDON	103	86	0	189	13	52	52	72	0	0	0	0	0	102	15	189
047	CEDAR CREEK	1,179	1,176	2	2,357	0	116	116	1,899	0	0	0	0	0	458	0	2,357
047	TRASK	167	163	0	330	0	0	0	330	0	0	0	0	0	0	0	330
047	TUFFY CREEK	14	10	0	24	0	0	0	24	0	0	0	0	0	0	0	24
047F	CEDAR CREEK	0	0	1	1	0	0	0	1	0	0	0	0	0	0	0	1
047W	CEDAR CREEK	41	46	0	87	0	50	50	81	0	0	0	0	0	0	6	87
050	MID COL STLD	5	0	0	5	0	0	0	1	0	0	0	0	0	0	0	1
050W	MID COL STLD	37	39	0	76	0	0	0	0	0	0	0	0	0	0	0	0
050W	PARKDALE	0	0	0	0	0	27	19	72	0	0	0	0	0	0	0	72
052	COLE RIVERS	1,726	2,070	0	3,796	296	161	602	2,976	389	0	0	0	76	0	0	3,441
055	ROCK CREEK	0	0	0	0	7	0	0	0	7	0	0	0	0	0	0	7
062	COLE RIVERS	1,355	1,258	0	2,613	243	101	115	1,950	430	0	0	0	2	0	0	2,382
088	STEP	177	162	3	342	0	20	10	310	0	0	0	0	0	0	32	342
096	ELK RIVER	0	0	0	0	24	40	22	0	0	0	0	0	97	0	0	97

Table 10. Adult Anadromous Fish Dispositions for 2004

SPECIES/ STOCK	COLLECTION SITE	RETURNS				POND MORTALITY	SPAWNED			RELEASE	BURY	RENDER	SOLD	PROCESS	GIVE	STREAM	OTHER	TOTAL
		MALE	FEMALE	JACK	TOTAL		AWAY	ENRICHMENT										
WINTER STEELHEAD (cont.)																		
096	STEP	55	42	0	97	0	0	0	0	0	0	0	0	0	0	0	0	0
099	NEHALEM	311	382	7	700	9	73	90	684	16	0	0	0	0	0	0	0	700
121	TRASK	11	8	0	19	0	0	0	19	0	0	0	0	0	0	0	0	19
121W	STEP	44	50	1	95	0	0	0	0	0	0	0	0	0	0	0	0	0
121W	TRASK	0	0	0	0	0	32	36	104	3	0	0	0	0	0	0	0	107
121W	TUFFY CREEK	29	12	0	41	0	0	0	41	0	0	0	0	0	0	0	0	41
122	CLACKAMAS	1,073	825	0	1,898	7	36	41	1,498	46	0	0	0	255	0	99	1,898	
122W	CLACKAMAS	22	16	0	38	0	13	11	75	0	0	0	0	0	0	0	0	75
144	BANDON	53	50	0	103	18	37	37	1	0	0	0	0	0	0	84	18	103
SPECIES TOTAL		12,743	11,806	42	24,591	861	2,263	2,646	19,871	1,262	66	0	0	503	2,093	411	24,206	
GRAND TOTAL		138,899	119,302	12,159	270,365	7,587	22,120	25,161	96,612	30,624	9,770	52,378	730	50,753	29,752	4,882	275,501	

Table 11. Wild Adult Fish Collection and Disposition for 2004

Species	Stock	Collection Site	Number Collected	Number Transferred		Spawned	Live Spawned	Released		Carcass Disposition		
				In	Out			Above Barrier	Below Barrier	Stream Enrichment	Other	
BULL TROUT												
	029	Imnaha Pond	135	0	0	0	0	135	0	0	0	
	081	Lookingglass	43	0	0	0	0	41	0	0	2	
		SPECIES TOTAL	178	0	0	0	0	176	0	0	2	
CHUM SALMON												
	013	Big Creek	24	0	0	0	0	24	0	0	0	
		SPECIES TOTAL	24	0	0	0	0	24	0	0	0	
COHO SALMON												
	011W	Sandy ²	187	0	0	0	0	187	0	0	0	
	011W	Marmot Trap	1032	0	0	0	0	1032	0	0	0	
	013	Big Creek	129	0	0	0	0	129	0	0	0	
	015	Klaskanine	23	0	0	0	0	23	0	0	0	
	018	Rock Creek	14	0	0	14	0	0	0	14	0	
	032	Nehalem	68	0	0	0	0	68	0	0	0	
	033	Salmon River	42	0	0	0	0	42	0	0	0	
	033W	Siletz Trap	26	0	0	0	0	0	26	0	0	
	034W	Trask	61	0	0	0	0	61	0	0	0	
	035	Elk River	20	0	0	0	0	20	0	0	0	
	043	Alsea	6	0	0	0	0	6	0	0	0	
	044	Bandon	36	89	0	80	0	35	0	6	84	
	047W	Cedar Creek	8	0	0	0	0	8	0	0	0	
	052	Cole Rivers	974	0	0	75	75	0	671	75	228	
	055	Rock Creek	150	0	0	124	0	0	0	146	4	
	099	Nehalem	2	0	0	0	0	2	0	0	0	
	121W	Tuffy Creek	63	0	0	0	0	63	0	0	0	
	504	Bonneville ¹	676	0	0	0	0	676	0	0	0	
		SPECIES TOTAL	3517	89	0	293	75	2352	697	241	316	
SOCKEYE SALMON												
		Round Butte	1	0	0	0	0	0	1	0	0	

Table 11. Wild Adult Fish Collection and Disposition for 2004

Species	Stock	Collection Site	Number Collected	Number Transferred		Spawned	Live Spawned	Released		Carcass Disposition	
				In	Out			Above Barrier	Below Barrier	Stream Enrichment	Other
FALL CHINOOK											
	015	Klaskanine	6	0	0	0	0	6	0	0	0
	018	Rock Creek	123	0	0	111	0	0	0	0	123
	032	Nehalem	6	0	0	0	0	6	0	0	0
	033W	Siletz Trap	15	0	0	0	0	15	0	0	0
	035	Elk River	623	0	0	623	0	0	0	312	311
	036	Salmon River	8	0	0	2	0	1	0	7	0
	044	Bandon	3	111	0	92	0	0	0	18	96
	043	Alsea Trap 2	45	0	0	0	0	45	0	0	0
	047W	Cedar Creek	128	0	0	71	0	57	0	0	71
	052	Cole Rivers	44	0	0	0	0	0	0	0	44
	066	Round Butte	69	0	0	0	0	0	69	0	0
	096	Elk River	0	340	0	329	0	0	0	214	126
	121W	Tuffy Creek	54	0	0	0	0	54	0	0	0
	146	Yaquina R./Big Elk Cr. ³	42	0	42	0	0	0	0	0	0
	146	Salmon River	0	48	0	48	0	0	0	45	3
	SPECIES TOTAL		1166	499	42	1276	0	184	69	596	774
SPRING CHINOOK											
	011W	Marmot Trap	2703	0	195	0	0	2508	0	0	0
	011W	Clackamas	0	195	0	144	0	31	0	17	147
	011W	Sandy	104	0	0	0	0	104	0	0	0
	019	Clackamas	90	0	0	0	0	90	0	0	0
	021	Minto Trap	323	0	0	59	0	264	0	0	59
	023	McKenzie ⁴	225	0	0	180	0	5	0	0	220
	024	South Santiam	1855	0	0	137	0	1636	80	137	2
	029	Imnaha River	1251	0	844	0	0	384	0	0	23
	029	Lookingglass	0	545	0	545	0	0	0	0	545
	033W	Siletz Trap	358	0	0	0	0	358	0	0	0
	034W	Trask	49	0	0	0	0	49	0	0	0
	043	Alsea Trap 2	18	0	0	0	0	18	0	0	0
	047W	Cedar Creek	45	0	0	0	0	45	0	0	0
	052	Cole Rivers	897	0	0	290	0	0	0	0	897
	055	Soda Springs	346	0	0	346	0	0	0	273	73
	066	Round Butte	4	0	0	0	0	0	4	0	0
	080W	Grande Ronde Weir	34	0	16	0	0	18	0	0	0
	080W	Lookingglass	0	17	0	13	0	0	0	0	17
	081	Lookingglass	32	0	0	0	0	0	0	0	32
	200W	Lostine Weir	238	0	45	0	0	193	0	0	0
	200W	Lookingglass	0	115	8	107	0	0	0	0	107
	201W	Catherine Creek Weir	254	0	53	0	0	201	0	0	0
	201W	Lookingglass	0	17	0	17	0	0	0	0	17
	504	Bonneville ¹	1	0	0	0	0	1	0	0	0
	SPECIES TOTAL		8827	889	1161	1838	0	5905	84	427	2139

Table 11. Wild Adult Fish Collection and Disposition for 2004

Species	Stock	Collection Site	Number Collected	Number Transferred		Spawned	Live Spawned	Released		Carcass Disposition		
				In	Out			Above Barrier	Below Barrier	Stream Enrichment	Other	
SUMMER STEELHEAD												
024W		Marmot Trap	343	0	0	0	0	343	0	0	0	
024W		Sandy	4	0	0	0	0	4	0	0	0	
024		Leaburg	2	0	0	0	0	2	0	0	0	
024		South Santiam	4	0	0	2	0	0	0	2	2	
029		Little Sheep Creek	141	0	0	5	5	136	0	0	5	
033W		Siletz Trap	1,239	0	0	0	0	1,239	0	0	0	
050W		Hood River ⁵	187	0	45	0	0	141	0	0	1	
050W		Parkdale	0	42	0	0	27	26	0	0	16	
052		Cole Rivers	297	0	0	0	228	0	246	0	51	
055		Rock Creek	321	0	0	118	0	0	35	113	173	
056		Big Canyon	67	0	0	0	0	67	0	0	0	
056		Wallowa	11	0	0	0	0	11	0	0	0	
066		Round Butte	23	0	0	0	0	0	23	0	0	
081		Lookingglass	140	0	0	0	0	140	0	0	0	
504		Bonneville ¹	2	0	0	0	0	2	0	0	0	
SPECIES TOTAL			2781	42	45	125	260	2111	304	115	248	
WINTER STEELHEAD												
011W		Marmot Trap	869	0	75	0	0	794	0	0	0	
011W		Sandy	12	75	0	0	55	28	57	0	2	
013		Big Creek	75	0	0	0	0	75	0	0	0	
015		Klaskanine	4	0	0	0	0	4	0	0	0	
018		Rock Creek	87	0	0	87	0	0	0	0	87	
021		Minto Trap	194	0	0	0	0	194	0	0	0	
024		South Santiam	1015	0	0	0	0	1014	0	0	1	
033W		Siletz Trap	203	0	86	0	0	117	0	0	0	
033W		Alsea	0	86	0	0	72	0	72	0	14	
034		Trask	37	0	0	0	0	0	37	0	0	
038		STEP	41	0	0	0	41	41	0	0	0	
043W		Alsea	68	9	0	0	19	32	28	3	14	
043W		Fall Creek	62	0	18	0	0	44	0	0	0	
044		Bandon	7	5	0	9	0	3	0	0	9	
047W		Cedar Creek	87	0	0	0	87	81	0	0	6	
050W		Hood River ⁵	76	0	76	0	0	0	0	0	0	
050W		Parkdale	0	80	0	0	46	72	0	0	8	
052		Cole Rivers	330	0	0	0	168	0	278	0	52	
062		Applegate Trap	56	0	0	0	47	0	47	0	9	
121W		Trask	0	109	0	0	68	0	105	0	4	
121W		Tuffy Creek	41	0	0	0	0	41	0	0	0	
122W		Clackamas	38	37	0	0	27	75	0	0	0	
144		Bandon	0	29	0	17	0	0	0	5	24	
SPECIES TOTAL			3302	430	255	113	630	2615	624	8	230	

¹Released above Bonneville Dam

⁴Released above Leaburg Dam

³Adults collected by gillnetting

²Released above Marmot Dam

⁵Adults captured by angling

Table 12. Egg and Carcass Sales Report 2004
Non-viable Salmon Egg Sales, 2004

Name of Hatchery	Name of Egg Buyer	Egg Quantity Sold (lb)	Total Value (\$)
Clackamas	Smoki Foods Inc.	500	1,050.00
Clackamas	Amerman's Salmon Egg	2,782	6,537.70
Cole Rivers	Smoki Foods Inc.	3,000	6,300.00
Cole Rivers	Amerman's Salmon Egg	2,187	5,139.45
TOTAL		8,469.00 lb	\$19,027.15

Surplus Salmon Carcass Sales, 2004

Name of Hatchery	Name of Fish Buyer	Number of Fish Sold	Total Weight (lb)	Total Value (\$)
Big Creek	American-Canadian Fisheries Inc.	8,738	138,270.70	39,179.25
Bonneville	American-Canadian Fisheries Inc.	29,247	262,575.63	194,416.76
Clackamas	Fishhawk Fisheries Inc.	6,680	89,488.00	59,022.85
Cole Rivers	American-Canadian Fisheries Inc.	7,712	104,526.21	95,178.47
TOTAL		52,377	594,860.54 lb	\$387,797.33

GRAND TOTAL (EGG + CARCASS SALES) = \$406,824.48

Table 13. Hatchery Maintenance Projects Completed in 2004

JOB LOCATION:	DESCRIPTION:
ALSEA HATCHERY	PARKING LOT
BONNEVILLE HATCHERY	PAVEMENT RECONSTRUCTION
BUTTE FALLS HATCHERY	POND 13 MODIFICATONS
BUTTE FALLS HATCHERY	INTAKE SLIDE GATE
CEDAR CREEK HATCHERY	PUMP DISCONNECT REPAIR & INSPECTION
CEDAR CREEK HATCHERY	3 RIVERS TRAP ELECTRICAL SERVICE & PUMP CONTROLLER
CEDAR CREEK HATCHERY	FISHWAY UNDERMINING REPAIR
CEDAR CREEK HATCHERY	SLIDE GATE REPLACEMENTS
COLE RIVERS HATCHERY	INTAKE SCREEN REPAIR
ELK RIVER HATCHERY	PUMP CONTROL REPAIRS
ELK RIVER HATCHERY	FISH PUMP ENGINE
ELK RIVER HATCHERY	DOMESTIC WELL CHECK VALVE
LEABURG HATCHERY	FREEZER ROOM REPAIRS
LEABURG HATCHERY	POND JOINT REPAIR PHASE 3
LOOKINGGLASS HATCHERY	POND MODIFICATIONS
MARION FORKS HATCHERY	POWER CONVERSION
MCKENZIE HATCHERY	MOLD IN RESIDENCES
NEHALEM HATCHERY	#3 & #4 PUMP REPAIRS
OAK SPRINGS HATCHERY	JIB CRANE-ADULT HOLDING POND
OAK SPRINGS HATCHERY	SEPTIC SYSTEM REPAIRS
OAK SPRINGS HATCHERY	ELECTRICAL SERVICE UPGRADE
ROCK CREEK HATCHERY	POLLUTION ABATEMENT DRAIN LINES
SALMON RIVER HATCHERY	PUMP REPAIRS AND DISCONNECT SWITCH FOR GASOLINE PUMP
SALMON RIVER HATCHERY	PUMP ADJUSTMENTS
SALMON RIVER HATCHERY	GENERATOR REPAIR & SERVICE
SALMON RIVER HATCHERY	COVER MOTOR STARTERS
SALMON RIVER HATCHERY	PUMP CONTROL TROUBLESHOOTING, REBUILD PUMP 3 MOTOR
SANDY HATCHERY	IRRIGATION SYSTEM
SOUTH SANTIAM HATCHERY	EGG INCUBATORS
TRASK HATCHERY	VERIFICATION OF PREVIOUS ELECTRICAL INSPECTIONS
TRASK PONDS	INTAKE SCREEN REPLACEMENT
UPPER HERMAN CREEK	ELECTRICAL IMPROVEMENTS

Table 14. Frequency of Pathogen Diagnosis at ODFW Hatcheries in 2004

Pathogen	Fish Species							Total
	Summer Steelhead	Winter Steelhead	Rainbow Trout	Spring Chinook	Fall Chinook	Coho	Other Species*	
<i>Ichthyobodo</i>	4	12	5	12	7	3	5	48
Trichodinids	26	36	53	32	3	18	12	180
<i>Gyrodactylus</i>	34	41	50	0	0	0	11	228
Ich	2	38	17	14	11	0	0	82
Gill Amoeba	1	4	6	1	2	0	0	14
BKD ¹	0	1	0	82	15	16	0	114
Furunculosis	2	3	4	26	4	1	0	40
Coldwater	44	36	44	36	4	10	1	154
Columnaris	6	8	3	9	2	1	9	38
BGD ²	5	3	5	3	1	0	0	17
Enteric RMD ³	1	0	1	7	3	0	0	55
Gram Negative Septicemia ⁴	48	43	17	83	24	6	4	225
IHNV ⁵								
Adult	13	7	0	17	1	0	0	38
Juvenile	0	0	4	4	0	0	0	8
Fingerling	3	0	2	4	0	0	0	46
Fry	2	0	1	2	0	0	0	5
EIBS ⁶	1	5	0	7	3	14	0	30
Fungus	5	8	22	96	7	1	0	139
Henneguya	1	1	7	6	0	0	3	18
<i>Ceratomyxa</i>	0	0	0	2	0	0	0	2
<i>M. cerebralis</i>	0	0	0	5	0	0	0	5
<i>Mxyobolus</i> spp	2	3	7	2	0	0	7	21

* Results include species examined for wild fish survey

¹Bacterial Kidney Disease

²Bacterial Gill Disease

³Enteric Red-mouth Disease

⁴infection by various *Aeromonas* and *Pseudomonas* bacteria

⁵Infectious Hematopoietic Necrosis Virus

⁶Erythrocytic Inclusion Body Syndrome

Table 15. Tag Recoveries for ODFW Hatchery Stocks

Hatchery	Species	Stock	Release Site	Brood Year	Release Year	Number Released		Ocean Recovery		Freshwater Recovery		Survival	
						CWT	Total	Num	%	Num	%	%	
Bandon	Coho	044	Coquille River	1989	1991	24,237	95,497	24	0.10	7	0.03	0.13	
			Ferry Creek	1990	1992	26,175	49,075	80	0.31	303	1.16	1.46	
			Coquille River	1992	1994	23,398	49,153	0	0.00	8	0.03	0.03	
			Coquille River	1995	1997	23,361	26,299	0	0.00	83	0.36	0.36	
			Ferry Creek	1996	1998	26,325	57,731	4	0.02	230	0.87	0.89	
			Ferry Creek	1998	2000	24,945	26,207	13	0.05	1,019	4.08	4.14	
	Fall Chinook	044	Coquille River	1990	1991	25,570	54,613	35	0.14	19	0.07	0.21	
			Ferry Creek	1991	1992	26,605	55,787	10	0.04	1	0.00	0.04	
			Coquille River	1995	1996	21,288	48,529	17	0.08	9	0.04	0.12	
	Spring Chinook	044	SF Coquille River	1990	1991	15,643	15,643	19	0.12	0	0.00	0.12	
	Big Creek	Coho	013	Big Creek	1989	1991	49,504	570,489	727	1.47	713	1.44	2.91
				Big Creek	1990	1992	53,983	553,925	48	0.09	88	0.16	0.25
Big Creek				1991	1993	54,907	560,176	40	0.07	554	1.01	1.08	
Big Creek				1992	1994	51,767	465,990	90	0.17	365	0.71	0.88	
Big Creek				1993	1995	53,842	533,857	23	0.04	381	0.71	0.75	
Big Creek				1994	1996	56,067	543,566	8	0.01	397	0.71	0.72	
Big Creek				1995	1997	55,296	535,702	13	0.02	345	0.62	0.65	
Big Creek				1996	1998	51,133	501,194	11	0.02	308	0.60	0.62	
Big Creek				1997	1999	52,645	525,342	78	0.15	749	1.42	1.57	
Big Creek				1998	2000	51,115	543,459	78	0.15	383	0.75	0.90	
Tualatin River				1991	1993	26,885	60,052	0	0.00	12	0.04	0.04	
Tualatin River				1992	1994	26,533	60,239	5	0.02	1	0.00	0.02	
Tualatin River				1993	1995	26,303	59,250	0	0.00	0	0.00	0.00	
Tualatin River				1994	1996	26,426	59,919	0	0.00	23	0.09	0.09	
Tualatin River				1995	1997	25,222	60,000	3	0.01	2	0.01	0.02	
Tualatin River				1996	1998	27,506	60,152	2	0.01	15	0.05	0.06	
Fall Chinook		013	Big Creek	1988	1989	316,016	10,576,010	235	0.07	220	0.07	0.14	
			Big Creek	1989	1990	216,589	9,746,836	127	0.06	79	0.04	0.10	
			Big Creek	1990	1991	157,334	10,880,953	61	0.04	56	0.04	0.07	
			Big Creek	1991	1992	105,416	8,579,586	45	0.04	95	0.09	0.13	
			Big Creek	1992	1993	105,966	7,901,061	11	0.01	56	0.05	0.06	
			Big Creek	1993	1994	105,425	7,025,715	73	0.07	155	0.15	0.22	
			Big Creek	1994	1995	158,756	11,188,784	20	0.01	77	0.05	0.06	
	Big Creek		1995	1996	157,063	9,470,792	0	0.00	42	0.03	0.03		
Big Creek	1996	1997	217,574	5,961,118	121	0.06	313	0.14	0.20				
Big Creek	1997	1998	218,967	5,867,783	58	0.03	177	0.08	0.11				

Table 15. Tag Recoveries for ODFW Hatchery Stocks

Hatchery	Species	Stock	Release Site	Brood Year	Release Year	Number Released		Ocean Recovery		Freshwater Recovery		Survival %
						CWT	Total	Num	%	Num	%	
Big Creek	Fall Chinook	052	Big Creek	1987	1988	148,571	153,864	2,090	1.41	1,190	0.80	2.21
			Big Creek	1988	1989	155,334	155,865	1,113	0.72	1,005	0.65	1.36
			Big Creek	1989	1990	152,691	3,834,825	805	0.53	535	0.35	0.88
			Big Creek	1990	1991	153,009	785,934	440	0.29	751	0.49	0.78
			Big Creek	1991	1992	155,817	763,387	104	0.07	667	0.43	0.49
			Big Creek	1992	1993	104,432	444,718	562	0.54	1,039	0.99	1.53
			Big Creek	1993	1994	109,048	804,671	215	0.20	473	0.43	0.63
			Big Creek	1994	1995	105,325	1,008,598	126	0.12	220	0.21	0.33
			Big Creek	1995	1996	26,791	521,952	17	0.06	29	0.11	0.17
Bonneville	Coho	014	Tanner Creek	1989	1991	69,363	1,724,405	620	0.89	870	1.25	2.15
			Tanner Creek	1990	1992	82,442	2,176,665	267	0.32	775	0.94	1.26
			Tanner Creek	1991	1993	55,053	1,111,764	25	0.05	1,271	2.31	2.35
			Tanner Creek	1992	1994	38,543	1,037,468	39	0.10	159	0.41	0.51
			Tanner Creek	1993	1995	51,936	1,279,197	29	0.06	445	0.86	0.91
			Tanner Creek	1994	1996	48,695	1,219,750	8	0.02	487	1.00	1.02
			Tanner Creek	1995	1997	56,330	1,115,249	15	0.03	391	0.69	0.72
			Tanner Creek	1996	1998	42,292	991,036	30	0.07	315	0.74	0.82
			Tanner Creek	1997	1999	51,051	1,316,431	59	0.12	837	1.64	1.76
			Tanner Creek	1998	2000	53,021	1,176,082	375	0.71	2,477	4.67	5.38
			Tanner Creek	1999	2000	26,292	832,854	75	0.29	505	1.92	2.21
	Fall Chinook	013	Big Creek	1991	1992	54,585	1,225,340	59	0.11	85	0.16	0.26
			Tanner Creek	1990	1991	50,358	2,580,821	38	0.08	46	0.09	0.17
			Tanner Creek	1991	1992	106,605	775,7835	12	0.01	22	0.02	0.03
	Fall Chinook	014	Tanner Creek	1988	1989	316,288	11,637,922	291	0.09	286	0.09	0.18
			Tanner Creek	1989	1990	293,901	6,754,197	126	0.04	113	0.04	0.08
			Tanner Creek	1990	1991	49,970	2,286,209	14	0.03	16	0.03	0.06
			Tanner Creek	1992	1993	107,301	6,582,277	2	0.00	15	0.01	0.02
			Tanner Creek	1993	1994	52,175	5,866,287	2	0.00	24	0.05	0.05
			Tanner Creek	1994	1995	78,345	1,137,161	7	0.01	5	0.01	0.02
			Tanner Creek	1995	1996	81,210	3,731,713	1	0.00	17	0.02	0.02
Fall Chinook	072	Tanner Creek	1994	1995	80,726	7,102,870	5	0.01	26	0.03	0.04	
		Tanner Creek	1995	1996	75,839	3,819,875	1	0.00	11	0.01	0.02	
Fall Chinook	095	Mid-Columbia River	1988	1989	101,061	101,558	50	0.05	112	0.11	0.16	
		Mid-Columbia River	1989	1990	93,127	99,686	163	0.18	142	0.15	0.33	
		Mid-Columbia River	1990	1991	190,571		123	0.06	201	0.11	0.17	
		Ringold Pond (WA)	1993	1994	425,289	4,258,492	249	0.06	1,002	0.24	0.29	

Table 15. Tag Recoveries for ODFW Hatchery Stocks

Hatchery	Species	Stock	Release Site	Brood Year	Release Year	Number Released		Ocean Recovery		Freshwater Recovery		Survival %
						CWT	Total	Num	%	Num	%	
Bonneville	Fall Chinook	095	Tanner Creek	1988	1989	100,166	101,692	47	0.05	81	0.08	0.13
			Tanner Creek	1989	1990	98,382	99,638	132	0.13	114	0.12	0.25
			Tanner Creek	1990	1991	247,106	4,867,973	140	0.06	281	0.11	0.17
			Tanner Creek	1991	1992	102,163	3,153,084	18	0.02	42	0.04	0.06
			Tanner Creek	1992	1993	97,104	4,030,615	83	0.09	270	0.28	0.36
			Tanner Creek	1993	1994	203,934	5,733,742	292	0.14	714	0.35	0.49
			Tanner Creek	1994	1995	233,782	6,481,671	20	0.01	47	0.02	0.03
			Tanner Creek	1995	1996	239,982	6,180,564	243	0.10	459	0.19	0.29
			Tanner Creek	1996	1997	106,199	7,080,330	22	0.02	31	0.03	0.05
			Tanner Creek	1997	1998	114,496	6,350,819	36	0.03	161	0.14	0.17
			Umatilla River	1990	1992	52,338	220,440	5	0.01	5	0.01	0.02
			Umatilla River	1991	1993	47,102	134,837	7	0.01	14	0.03	0.04
			Umatilla River	1992	1994	47,169	283,453	9	0.02	88	0.19	0.21
			Umatilla River	1993	1995	49,239	227,088	7	0.01	85	0.17	0.19
	Umatilla River	1994	1996	55,918	421,316	2	0.00	112	0.20	0.20		
	Umatilla River	1996	1998	27,402	256,910	2	0.01	40	0.15	0.15		
	Umatilla River	1997	1999	49,611	52,194	14	0.03	43	0.09	0.11		
	Spring Chinook	081	WF Hood River	1988	1990	52,891	193,193	0	0.00	108	0.20	0.20
			WF Hood River	1989	1991	52,068	125,327	0	0.00	15	0.03	0.03
			WF Hood River	1990	1992	52,732	163,295	0	0.00	17	0.03	0.03
			Umatilla River	1988	1989	163,601	164,604	0	0.00	112	0.07	0.07
			Umatilla River	1988	1990	156,776	231,772	1	0.00	746	0.48	0.48
			Umatilla River	1989	1990	157,652	158,436	0	0.00	6	0.00	0.00
			Umatilla River	1989	1991	151,272	196,655	3	0.00	205	0.14	0.14
			Umatilla River	1990	1991	157,243	159,623	0	0.00	25	0.02	0.02
			Umatilla River	1990	1992	156,214	208,030	0	0.00	16	0.01	0.01
			Spring Chinook	075	Umatilla River	1991	1992	131,647	132,929	0	0.00	14
	Umatilla River	1991			1993	39,973	91,542	0	0.00	19	0.05	0.05
Umatilla River	1992	1994			93,349	405,102	0	0.00	455	0.49	0.49	
Spring Chinook	066	WF Hood River	1991	1993	39,739	40,317	0	0.00	10	0.03	0.03	
		WF Hood River	1993	1995	42,861	170,004	0	0.00	18	0.04	0.04	
Butte Falls	Coho	037	Noble Creek	1989	1991	20,207	33,305	180	0.89	115	0.57	1.46
			Noble Creek	1991	1993	20,792	86,030	24	0.12	89	0.43	0.54
			Noble Creek	1992	1994	24,986	41,836	0	0.00	103	0.41	0.41
	Coho	044	Coquille River	1991	1993	25,565	43,932	0	0.00	32	0.13	0.13
			Sevensmile Creek	1993	1995	23,819	93,545	0	0.00	1	0.00	0.00

Table 15. Tag Recoveries for ODFW Hatchery Stocks

Hatchery	Species	Stock	Release Site	Brood Year	Release Year	Number Released		Ocean Recovery		Freshwater Recovery		Survival	
						CWT	Total	Num	%	Num	%	%	%
Butte Falls	Coho	044	Sevenmile Creek	1994	1996	20,727	23,575	5	0.02	1	0.00	0.03	
			Ferry Creek	1997	1999	27,751	28,751	10	0.04	536	1.93	1.97	
	Coho	063	Eel Lake	1989	1990	23,060	86,141	94	0.41	145	0.63	1.04	
			Eel Lake	1989	1991	25,070	101,567	96	0.38	253	1.01	1.39	
			Eel Lake	1990	1991	26,129	100,465	37	0.14	19	0.07	0.21	
			Eel Lake	1990	1992	26,276	83,241	80	0.30	64	0.24	0.55	
			Eel Lake	1991	1993	24,136	120,978	9	0.04	0	0.00	0.04	
			Eel Lake	1992	1994	26,200	122,950	0	0.00	0	0.00	0.00	
	Coho	055	Rock Creek	1998	2000	23,718	65,350	37	0.16	10	0.04	0.20	
			SF Umpqua River	1989	1991	25,075	142,487	230	0.92	12	0.05	0.97	
			SF Umpqua River	1990	1992	26,287	133,916	67	0.25	31	0.12	0.37	
	Coho	018	SF Umpqua River	1991	1993	27,462	132,234	3	0.01	23	0.08	0.09	
			SF Umpqua River	1992	1994	24,893	129,253	5	0.02	14	0.06	0.08	
			SF Umpqua River	1993	1995	22,051	130,153	6	0.03	34	0.15	0.18	
			SF Umpqua River	1994	1996	21,216	123,367	0	0.00	17	0.08	0.08	
			SF Umpqua River	1995	1997	23,329	134,006	0	0.00	2	0.01	0.01	
			SF Umpqua River	1996	1998	28,005	131,897	2	0.01	6	0.02	0.03	
			SF Umpqua River	1997	1999	28,417	68,472	30	0.11	24	0.08	0.19	
			SF Umpqua River	1998	2000	25,103	62,624	32	0.13	10	0.04	0.17	
	Fall Chinook	037	Morgan Creek	1987	1988	26,119	70,166	37	0.14	66	0.25	0.39	
			Morgan Creek	1988	1989	25,755	56,029	94	0.36	67	0.26	0.63	
			Noble Creek	1989	1990	26,099	63,490	94	0.36	55	0.21	0.57	
	Fall Chinook	044	Sevenmile Creek	1993	1994	23,420	50,650	96	0.41	4	0.02	0.43	
Sevenmile Creek			1994	1995	31,960	31,960	118	0.37	3	0.01	0.38		
Sevenmile Creek			1996	1997	27,456	54,970	28	0.10	2	0.01	0.11		
Sevenmile Creek			1997	1998	28,204	59,405	92	0.33	5	0.02	0.34		
Sevenmile Creek			1998	1999	25,928	54,256	30	0.12	1	0.00	0.12		
Spring Chinook	044	Coquille River	1988	1989	26,442	42,243	122	0.46	6	0.02	0.48		
		SF Coquille River	1989	1990	26,044	32,500	61	0.23	10	0.04	0.27		
		SF Coquille River	1991	1992	12,308	13,028	2	0.02	1	0.01	0.02		
Cascade/Oxbow	Coho	014	Methow River (WA)	1998	2000	26,470	199,763	29	0.11	44	0.17	0.28	
			Umatilla River	1989	1991	75,329	909,426	68	0.09	78	0.10	0.19	
			Umatilla River	1990	1992	83,071	961,386	217	0.26	482	0.58	0.84	
			Umatilla River	1991	1993	84,078	892,678	6	0.01	172	0.20	0.21	
			Umatilla River	1992	1994	81,628	884,105	38	0.05	162	0.20	0.25	
			Umatilla River	1993	1995	79,300	999,554	0	0.00	49	0.06	0.06	

Table 15. Tag Recoveries for ODFW Hatchery Stocks

Hatchery	Species	Stock	Release Site	Brood Year	Release Year	Number Released		Ocean Recovery		Freshwater Recovery		Survival %
						CWT	Total	Num	%	Num	%	
Cascade/Oxbow	Coho	014	Umatilla River	1994	1996	79,057	1,477,383	0	0.00	42	0.05	0.05
			Umatilla River	1996	1998	79,517	1,579,736	34	0.04	266	0.33	0.38
			Umatilla River	1997	1999	80,426	1,448,552	30	0.04	182	0.23	0.26
			Umatilla River	1998	2000	78,860	1,533,960	80	0.10	192	0.24	0.34
			Yakima River (WA)	1989	1991	77,932	690,431	79	0.10	45	0.06	0.16
			Yakima River (WA)	1990	1992	82,793	697,807	38	0.05	29	0.04	0.08
			Yakima River (WA)	1991	1993	83,268	643,841	0	0.00	40	0.05	0.05
			Yakima River (WA)	1992	1994	78,354	710,574	71	0.09	41	0.05	0.14
			Yakima River (WA)	1993	1995	62,015	565,616	8	0.01	42	0.07	0.08
			Yakima River (WA)	1994	1996	79,406	580,379	1	0.00	64	0.08	0.08
			Yakima River (WA)	1996	1998	80,745	672,472	46	0.06	99	0.12	0.18
			Yakima River (WA)	1997	1999	52,457	451,741	70	0.13	149	0.28	0.42
						Wenatchee River (WA)	1998	2000	26,367	498,716	75	0.28
	Coho	091	Umatilla River	1995	1997	24,807	438,153	16	0.06	54	0.22	0.28
Cedar Creek	Coho	034	Three Rivers	1990	1992	23,847	42,824	33	0.14	39	0.16	0.30
	Fall Chinook	047	Three Rivers	1991	1992	25,308	144,550	10	0.04	11	0.04	0.08
			Nestucca River	1992	1993	24,520	115,830	44	0.18	39	0.16	0.34
	Spring Chinook	047	Nestucca River	1991	1992	26,389	139,112	15	0.06	14	0.05	0.11
			Nestucca River	1992	1993	21,947	73,096	32	0.15	38	0.17	0.32
			Nestucca River	1993	1994	25,440	102,442	20	0.08	47	0.18	0.26
			Nestucca River	1994	1995	25,997	126,327	12	0.05	34	0.13	0.18
			Nestucca River	1995	1996	25,702	112,312	31	0.12	33	0.13	0.25
Nestucca River			1996	1997	25,658	120,651	41	0.16	41	0.16	0.32	
Nestucca River			1997	1998	26,283	122,222	21	0.08	23	0.09	0.17	
Nestucca River	1998	1999	25,604	119,800	18	0.07	13	0.05	0.12			
CEDC	Coho	014	Blind Slough	1993	1995	26,258	140,267	41	0.16	471	1.79	1.95
			Blind Slough	1995	1997	25,104	196,963	0	0.00	18	0.07	0.07
			Blind Slough	1996	1998	24,607	144,958	10	0.04	398	1.62	1.66
			Blind Slough	1997	1999	26,072	197,089	28	0.11	496	1.90	2.01
			Blind Slough	1998	2000	24,624	195,645	48	0.19	526	2.14	2.33
			Tongue Point	1993	1995	26,426	130,623	66	0.25	751	2.84	3.09
			Tongue Point	1995	1997	26,174	430,221	4	0.02	135	0.52	0.53
			Tongue Point	1996	1998	18,355	119,611	37	0.20	698	3.80	4.00
			Tongue Point	1997	1999	26,269	204,143	34	0.13	384	1.46	1.59
			Tongue Point	1998	2000	24,634	228,290	112	0.45	638	2.59	3.04
			Tongue Point	1999	2001	21,854	173,199	24	0.11	6	0.03	0.14

Table 15. Tag Recoveries for ODFW Hatchery Stocks

Hatchery	Species	Stock	Release Site	Brood Year	Release Year	Number Released		Ocean Recovery		Freshwater Recovery		Survival	
						CWT	Total	Num	%	Num	%	%	%
CEDC	Coho	014	Youngs River	1991	1993	45,418	1,328,728	38	0.08	1,257	2.77	2.85	
			Youngs River	1992	1994	78,614	1,128,771	303	0.39	976	1.24	1.63	
			Youngs River	1993	1995	54,881	960,556	59	0.11	1,067	1.94	2.05	
			Youngs River	1994	1996	54,847	1,637,863	3	0.01	241	0.44	0.44	
			Youngs River	1995	1997	27,198	146,818	20	0.07	377	1.39	1.46	
			Youngs River	1996	1998	55,141	559,007	71	0.13	799	1.45	1.58	
			Youngs River	1997	1999	55,485	821,215	38	0.07	771	1.39	1.46	
			Youngs River	1998	2000	50,640	1,043,222	75	0.15	592	1.17	1.32	
	Coho	020	Blind Slough	1994	1996	24,942	209,761	7	0.03	317	1.27	1.30	
			Tongue Point	1994	1996	23,942	190,032	5	0.02	211	0.88	0.90	
			Youngs River	1991	1993	95,616	1,835,462	46	0.05	812	0.85	0.90	
			Youngs River	1992	1994	48,790	1,046,376	69	0.14	193	0.40	0.54	
			Youngs River	1993	1995	44,602	747,943	9	0.02	110	0.25	0.27	
			Youngs River	1994	1996	48,378	557,526	4	0.01	656	1.36	1.36	
			Youngs River	1996	1998	103,114	530,524	57	0.06	913	0.89	0.94	
			Youngs River	1997	1999	599,945	1,531,816	75	0.01	999	0.17	0.18	
	Coho	011	Youngs River	1990	1992	53,761	718,619	7	0.01	10	0.02	0.03	
			Youngs River	1994	1996	26,418	295,512	0	0.00	50	0.19	0.19	
			Youngs River	1995	1997	26,598	633,310	9	0.03	163	0.61	0.65	
			Youngs River	1997	1999	26,215	272,656	67	0.26	718	2.74	2.99	
			Youngs River	1998	2000	26,699	272,992	112	0.42	525	1.97	2.39	
	Coho	015	SF Klaskanine River	1990	1992	26,387	653,350	282	1.07	534	2.02	3.09	
			SF Klaskanine River	1991	1993	26,817	736,929	0	0.00	170	0.63	0.63	
			SF Klaskanine River	1992	1994	25,978	538,994	33	0.13	128	0.49	0.62	
			SF Klaskanine River	1993	1995	23,160	433,674	13	0.06	211	0.91	0.97	
			SF Klaskanine River	1994	1996	25,979	443,183	0	0.00	131	0.50	0.50	
			SF Klaskanine River	1995	1997	28,284	621,932	15	0.05	473	1.67	1.73	
			SF Klaskanine River	1996	1998	26,787	550,427	18	0.07	246	0.92	0.99	
SF Klaskanine River			1997	1999	19,622	429,652	10	0.05	91	0.46	0.51		
SF Klaskanine River			1998	2000	25,414	610,658	138	0.54	1,020	4.01	4.56		
Youngs River			1990	1992	52,490	403,226	509	0.97	1,224	2.33	3.30		
Youngs River	1991	1993	26,556	126,866	3	0.01	197	0.74	0.75				
Coho	114	Youngs River	1990	1992	26,139	405,976	10	0.04	20	0.08	0.11		
Coho	152	Tongue Point	1998	2000	26,176	525,833	54	0.21	167	0.64	0.84		
Fall Chinook	095	Tongue Point	1995	1996	46,186	97,886	26	0.06	124	0.27	0.32		

Table 15. Tag Recoveries for ODFW Hatchery Stocks

Hatchery	Species	Stock	Release Site	Brood Year	Release Year	Number Released		Ocean Recovery		Freshwater Recovery		Survival
						CWT	Total	Num	%	Num	%	%
CEDC	Fall Chinook	095	Tongue Point	1996	1997	51,897	201,849	7	0.01	46	0.09	0.10
			Youngs River	1994	1995	50,608	199,088	6	0.01	3	0.01	0.02
			Youngs River	1997	1998	54,049	629,796	2	0.00	8	0.01	0.02
	Fall Chinook	052	Blind Slough	1995	1996	27,231	27,380	17	0.06	196	0.72	0.78
			Blind Slough	1996	1997	27,413	27,413	9	0.03	11	0.04	0.07
			Tongue Point	1995	1996	26,354	26,354	9	0.03	61	0.23	0.27
			Tongue Point	1996	1997	27,427	27,482	11	0.04	27	0.10	0.14
			Youngs River	1989	1990	50,336	127,711	328	0.65	355	0.71	1.36
			Youngs River	1991	1992	25,467	56,467	0	0.00	37	0.15	0.15
			Youngs River	1993	1994	25,351	337,915	84	0.33	214	0.84	1.18
			Youngs River	1994	1995	249,492	1,251,787	214	0.09	611	0.24	0.33
			Youngs River	1995	1996	129,605	549,248	71	0.05	476	0.37	0.42
			Youngs River	1996	1997	51,270	188,948	28	0.05	216	0.42	0.48
	Spring Chinook	024	Blind Slough	1994	1996	52,369	199,389	2	0.00	59	0.11	0.12
			SF Klaskanine River	1994	1996	52,205	76,618	0	0.00	12	0.02	0.02
			Tongue Point	1994	1996	100,400	242,319	10	0.01	57	0.06	0.07
			Youngs River	1994	1996	105,422	276,493	6	0.01	121	0.11	0.12
	Spring Chinook	022	Blind Slough	1995	1997	58,002	171,229	12	0.02	138	0.24	0.26
			Blind Slough	1996	1998	91,974	248,714	7	0.01	328	0.36	0.36
			Blind Slough	1997	1999	75,748	200,007	9	0.01	465	0.61	0.63
			SF Klaskanine River	1988	1989	28,050	116,079	0	0.00	1	0.00	0.00
			SF Klaskanine River	1989	1990	27,491	118,674	1	0.00	9	0.03	0.04
			SF Klaskanine River	1991	1992	26,630	74,517	1	0.00	3	0.01	0.02
			SF Klaskanine River	1993	1995	51,829	86,978	0	0.00	36	0.07	0.07
			SF Klaskanine River	1995	1997	25,149	76,821	0	0.00	10	0.04	0.04
			Tongue Point	1995	1997	101,770	301,794	18	0.02	204	0.20	0.22
			Tongue Point	1996	1998	90,697	253,770	24	0.03	649	0.72	0.74
	Spring Chinook	022	Youngs River	1988	1989	25,914	109,204	2	0.01	20	0.08	0.08
			Youngs River	1988	1990	26,670	54,309	13	0.05	290	1.09	1.14
			Youngs River	1989	1990	28,688	221,790	5	0.02	23	0.08	0.10
Youngs River			1991	1992	26,352	301,786	0	0.00	1	0.00	0.00	
Youngs River			1993	1995	144,189	363,222	84	0.06	970	0.67	0.73	
Youngs River			1995	1997	199,632	387,228	9	0.00	198	0.10	0.10	
Youngs River			1996	1998	147,404	456,282	89	0.06	2,086	1.42	1.48	
Youngs River			1997	1999	72,234	426,418	11	0.02	820	1.14	1.15	

Table 15. Tag Recoveries for ODFW Hatchery Stocks

Hatchery	Species	Stock	Release Site	Brood Year	Release Year	Number Released		Ocean Recovery		Freshwater Recovery		Survival				
						CWT	Total	Num	%	Num	%	%	%			
CEDC	Spring Chinook	019	SF Klaskanine River	1990	1991	26,472	119,627	4	0.02	1	0.00	0.02				
			Youngs River	1990	1991	26,597	210,867	0	0.00	11	0.04	0.04				
			Youngs River	1990	1992	22,592	31,667	11	0.05	167	0.74	0.79				
			Youngs River	1994	1996	41,805	97,945	10	0.02	101	0.24	0.27				
	Spring Chinook	021	SF Klaskanine River	1992	1994	24,688	109,974	2	0.01	5	0.02	0.03				
			Youngs River	1992	1994	26,418	301,361	5	0.02	91	0.34	0.36				
Clackamas	Spring Chinook	019	Clackamas River	1988	1989	60,219	720,785	78	0.13	118	0.20	0.33				
			Clackamas River	1988	1990	31,613	563,468	167	0.53	534	1.69	2.22				
			Clackamas River	1989	1990	105,703	633,158	60	0.06	146	0.14	0.19				
			Clackamas River	1990	1991	100,034	623,340	5	0.00	117	0.12	0.12				
			Clackamas River	1990	1992	34,495	412,274	19	0.06	303	0.88	0.93				
			Clackamas River	1991	1992	88,554	584,171	0	0.00	9	0.01	0.01				
			Clackamas River	1991	1993	30,427	447,387	9	0.03	139	0.46	0.49				
			Clackamas River	1992	1993	98,769	597,714	16	0.02	127	0.13	0.14				
			Clackamas River	1992	1994	28,594	239,158	14	0.05	136	0.48	0.52				
			Clackamas River	1993	1994	103,047	652,523	11	0.01	144	0.14	0.15				
			Clackamas River	1993	1995	29,005	361,702	14	0.05	268	0.92	0.97				
			Clackamas River	1994	1995	50,707	612,801	4	0.01	15	0.03	0.04				
			Clackamas River	1994	1996	25,985	379,140	33	0.13	259	1.00	1.12				
			Clackamas River	1995	1996	45,475	615,580	0	0.00	36	0.08	0.08				
			Clackamas River	1995	1996	29,211	390,111	38	0.13	255	0.87	1.00				
			Clackamas River	1996	1997	32,774	683,121	0	0.00	17	0.05	0.05				
			Clackamas River	1996	1998	31,007	487,334	30	0.10	297	0.96	1.05				
			Clackamas River	1997	1998	627,999	657,734	33	0.01	377	0.06	0.07				
			Clackamas River	1997	1999	311,322	376,349	577	0.19	3,911	1.26	1.44				
						Sandy River	1991	1993	51,764	371,484	5	0.01	34	0.07	0.08	
						Sandy River	1992	1994	25,177	344,893	15	0.06	36	0.14	0.20	
						Sandy River	1993	1995	23,927	459,479	15	0.06	17	0.07	0.13	
			Sandy River	1994	1996	23,634	421,768	37	0.16	20	0.08	0.24				
			Sandy River	1995	1997	23,280	429,117	9	0.04	20	0.09	0.12				
			Sandy River	1996	1998	25,001	358,769	79	0.32	14	0.06	0.37				
			Sandy River	1997	1999	460,053	468,301	453	0.10	345	0.07	0.17				
Cole Rivers	Coho	037	Noble Creek	1989	1991	25,509	25,509	112	0.44	110	0.43	0.87				
			Noble Creek	1995	1997	26,211	70,540	4	0.02	59	0.23	0.24				
	Coho	052	Rogue River	1989	1991	26,184	47,850	33	0.13	140	0.53	0.66				
			Rogue River	1990	1992	27,154	208,340	17	0.06	86	0.32	0.38				

Table 15. Tag Recoveries for ODFW Hatchery Stocks

Hatchery	Species	Stock	Release Site	Brood Year	Release Year	Number Released		Ocean Recovery		Freshwater Recovery		Survival	
						CWT	Total	Num	%	Num	%	%	%
Cole Rivers	Coho	052	Rogue River	1991	1993	179,786	184,873	10	0.01	5,987	3.33	3.34	
			Rogue River	1992	1994	176,247	181,877	72	0.04	8,118	4.61	4.65	
			Rogue River	1993	1995	154,788	158,181	19	0.01	6,295	4.07	4.08	
			Rogue River	1994	1996	201,131	204,363	54	0.03	8,111	4.03	4.06	
			Rogue River	1995	1997	26,907	166,790	0	0.00	464	1.72	1.72	
			Rogue River	1996	1998	28,012	187,896	4	0.01	625	2.23	2.25	
			Rogue River	1997	1999	25,859	180,994	11	0.04	1,095	4.23	4.28	
			Rogue River	1998	2000	26,262	146,457	13	0.05	340	1.29	1.34	
	Fall Chinook	037	Noble Creek	1991	1992	25,355	51,946	74	0.29	83	0.33	0.62	
			Noble Creek	1992	1993	26,724	50,835	56	0.21	263	0.98	1.19	
			Morgan Creek	1993	1994	26,153	92,850	107	0.41	39	0.15	0.56	
			Morgan Creek	1994	1995	26,045	103,534	39	0.15	20	0.08	0.23	
			Morgan Creek	1995	1996	23,556	94,405	33	0.14	39	0.17	0.31	
			Morgan Creek	1996	1997	24,059	98,963	32	0.13	43	0.18	0.31	
	Fall Chinook	044	Ferry Creek	1987	1988	26,940	26,940	353	1.31	100	0.37	1.68	
			Coquille River	1988	1989	27,609	75,035	238	0.86	8	0.03	0.89	
	Spring Chinook	052	Rogue River	1987	1988	92,210	379,529	344	0.37	177	0.19	0.57	
			Rogue River	1988	1989	91,143	1,497,824	191	0.21	193	0.21	0.42	
			Rogue River	1989	1990	88,430	421,296	138	0.16	448	0.51	0.66	
			Rogue River	1990	1991	61,523	752,646	202	0.33	297	0.48	0.81	
			Rogue River	1991	1992	92,255	94,958	529	0.57	2,427	2.63	3.20	
			Rogue River	1992	1993	88,737	471,113	497	0.56	1,547	1.74	2.30	
			Rogue River	1993	1994	92,615	93,690	324	0.35	1,610	1.74	2.09	
			Rogue River	1994	1995	89,986	768,604	58	0.06	247	0.27	0.34	
			Rogue River	1995	1996	91,337	724,913	66	0.07	1,130	1.24	1.31	
			Rogue River	1996	1997	91,854	1,525,838	41	0.04	238	0.26	0.30	
			Rogue River	1997	1998	93,993	1,499,392	270	0.29	402	0.43	0.71	
			Rogue River	1998	1999	93,604	1,355,456	151	0.16	32	0.03	0.20	
Elk River	Fall Chinook	096	Chetco River	1987	1988	26,957	32,116	381	1.41	71	0.26	1.68	
			Chetco River	1988	1989	106,921	463,264	78	0.07	81	0.08	0.15	
			Chetco River	1989	1990	78,429	474,067	130	0.17	59	0.08	0.24	
			Chetco River	1990	1991	76,396	393,593	167	0.22	26	0.03	0.25	
			Chetco River	1991	1992	46,217	389,509	178	0.39	43	0.09	0.48	
			Chetco River	1992	1993	24,669	357,829	189	0.77	34	0.14	0.90	
			Chetco River	1993	1994	25,933	330,254	104	0.40	48	0.19	0.59	
			Chetco River	1994	1995	24,971	165,717	82	0.33	6	0.02	0.35	

Table 15. Tag Recoveries for ODFW Hatchery Stocks

Hatchery	Species	Stock	Release Site	Brood Year	Release Year	Number Released		Ocean Recovery		Freshwater Recovery		Survival %
						CWT	Total	Num	%	Num	%	
Elk River	Fall Chinook	096	Chetco River	1995	1996	24,109	226,309	51	0.21	5	0.02	0.23
			Chetco River	1996	1997	25,050	233,621	7	0.03	1	0.00	0.03
			Chetco River	1997	1998	26,994	158,208	94	0.35	2	0.01	0.36
	Fall Chinook	035	Elk River	1987	1988	25,276	175,235	53	0.21	32	0.13	0.34
			Elk River	1988	1989	27,315	184,617	68	0.25	44	0.16	0.41
			Elk River	1989	1990	25,861	334,809	188	0.73	229	0.89	1.61
			Elk River	1990	1991	201,111	218,834	539	0.27	743	0.37	0.64
			Elk River	1991	1992	169,132	220,792	338	0.20	643	0.38	0.58
			Elk River	1992	1993	200,586	220,915	1,351	0.67	1,196	0.60	1.27
			Elk River	1993	1994	210,634	328,600	2,429	1.15	2,202	1.05	2.20
			Elk River	1994	1995	194,243	325,889	1,036	0.53	1,287	0.66	1.20
			Elk River	1995	1996	174,479	321,567	1,468	0.84	2,432	1.39	2.24
			Elk River	1996	1997	175,967	322,931	302	0.17	412	0.23	0.41
	Fall Chinook	008	Hunter Creek	1992	1993	19,182	21,357	361	1.88	29	0.15	2.03
			Hunter Creek	1993	1994	25,340	26,867	130	0.51	17	0.07	0.58
	Fall Chinook	017	Pistol River	1991	1992	21,697	22,273	141	0.65	19	0.09	0.74
			Pistol River	1992	1993	18,877	19,480	294	1.56	38	0.20	1.76
			Pistol River	1993	1994	25,368	35,734	103	0.41	18	0.07	0.48
			Pistol River	1994	1995	5,166	6,343	8	0.15	1	0.02	0.17
	Fall Chinook	007	Winchuck River	1991	1992	21,731	22,375	138	0.64	20	0.09	0.73
Winchuck River			1992	1993	9,021	9,537	68	0.75	10	0.11	0.86	
Fall Creek	Coho	043	Fall Creek	1989	1991	107,410	1,031,574	610	0.57	665	0.62	1.19
			Fall Creek	1990	1992	73,607	1,498,431	143	0.19	209	0.28	0.48
			Fall Creek	1991	1993	105,725	941,305	4	0.00	238	0.23	0.23
			Fall Creek	1992	1994	104,638	928,721	26	0.02	331	0.32	0.34
			Fall Creek	1993	1995	107,971	1,046,459	18	0.02	257	0.24	0.25
			Fall Creek	1994	1996	105,456	2,073,340	7	0.01	29	0.03	0.03
			Fall Creek	1995	1997	111,517	947,865	22	0.02	643	0.58	0.60
			Fall Creek	1996	1998	54,306	178,589	5	0.01	156	0.29	0.30
	Coho	043W	Fall Creek	1989	1991	53,991	57,328	203	0.38	70	0.13	0.51
			Fall Creek	1991	1993	7,795	8,197	4	0.05	4	0.05	0.10
Fall Creek			1992	1994	43,889	93,370	3	0.01	32	0.07	0.08	

Table 15. Tag Recoveries for ODFW Hatchery Stocks

Hatchery	Species	Stock	Release Site	Brood Year	Release Year	Number Released		Ocean Recovery		Freshwater Recovery		Survival %	
						CWT	Total	Num	%	Num	%		
Fall Creek	Fall Chinook	043	Fall Creek	1991	1992	21,100	101,587	20	0.09	25	0.12	0.21	
			Fall Creek	1992	1993	23,089	103,583	67	0.29	78	0.34	0.63	
			Fall Creek	1994	1995	24,562	103,214	62	0.25	18	0.07	0.33	
			Fall Creek	1995	1996	29,121	100,278	130	0.45	96	0.33	0.78	
	Coho	105	Siuslaw River	1990	1992	26,081	27,360	70	0.27	33	0.13	0.39	
			Siuslaw River	1991	1993	25,013	54,782	0	0.00	15	0.06	0.06	
			Siuslaw River	1992	1994	24,585	51,319	21	0.09	15	0.06	0.15	
			Siuslaw River	1993	1995	25,273	54,407	0	0.00	1	0.00	0.00	
			Siuslaw River	1994	1996	25,091	48,758	0	0.00	0	0.00	0.00	
	Coho	038	Siuslaw River	1995	1997	29,181	45,670	0	0.00	0	0.00	0.00	
	Gardiner Creek	Coho	055	Gardiner Creek	1990	1992	14,671	14,671	37	0.25	27	0.18	0.44
				Gardiner Creek	1991	1993	12,140	12,201	5	0.04	20	0.16	0.21
		Coho	151	Gardiner Creek	1994	1996	10,336	10,438	7	0.07	3	0.03	0.10
Gardiner Creek				1995	1997	12,674	12,674	3	0.02	59	0.47	0.49	
Fall Chinook		018	Gardiner Creek	1995	1996	31,239	31,549	64	0.20	13	0.04	0.25	
			Winchester Bay	1995	1996	48,758	49,240	320	0.66	42	0.09	0.74	
			Gardiner Creek	1996	1997	13,901	14,127	21	0.15	0	0.00	0.15	
			Winchester Bay	1996	1997	71,372	72,987	37	0.05	22	0.03	0.08	
Fall Chinook		151W	Winchester Bay	1997	1998	24,617	75,381	68	0.28	1	0.00	0.28	
			Winchester Bay	1998	1999	38,632	38,632	58	0.15	5	0.01	0.16	
Gnat Creek	Coho	014	Umatilla River	1995	1997	26,822	853,688	11	0.04	121	0.45	0.49	
Hunter Creek	Fall Chinook	008	Hunter Creek	1989	1990	17,460	17,460	27	0.15	4	0.02	0.18	
Indian Creek Pond	Fall Chinook	052	Rogue River	1988	1989	25,193	96,458	34	0.13	11	0.04	0.18	
			Fall Chinook	061	Indian Creek	1988	1989	53,193	69,000	36	0.07	21	0.04
				Lobster Creek	1989	1990	27,025	27,278	0	0.00	0	0.00	0.00
				Indian Creek	1989	1990	26,908	42,996	30	0.11	13	0.05	0.16
				Rogue River	1991	1992	25,476	30,240	198	0.78	84	0.33	1.11
				Rogue River	1992	1993	13,638	14,236	131	0.96	65	0.48	1.44
				Rogue River	1993	1994	27,081	28,855	87	0.32	46	0.17	0.49
				Rogue River	1994	1995	22,910	53,817	20	0.09	39	0.17	0.26
				Rogue River	1995	1996	24,037	39,546	20	0.08	23	0.10	0.18
				Rogue River	1996	1997	31,633	71,144	23	0.07	23	0.07	0.15
				Rogue River	1997	1998	71,100	74,167	343	0.48	287	0.40	0.89
			Rogue River	1998	1999	62,948	68,065	149	0.24	20	0.03	0.27	
Irrigon	Fall Chinook	045	Umatilla River	1988	1989	307,492	2,550,667	141	0.05	181	0.06	0.10	
			Umatilla River	1989	1990	295,896	541,809	161	0.05	275	0.09	0.15	

Table 15. Tag Recoveries for ODFW Hatchery Stocks

Hatchery	Species	Stock	Release Site	Brood Year	Release Year	Number Released		Ocean Recovery		Freshwater Recovery		Survival	
						CWT	Total	Num	%	Num	%	%	%
Irrigon	Fall Chinook	045	Umatilla River	1990	1991	476,151	3,245,751	448	0.09	588	0.12	0.22	
	Spring Chinook	085	Lookingglass Creek	1988	1989	123,168	126,700	0	0.00	0	0.00	0.00	
	Summer Steelhead	Big Canyon Creek	056	1990	1991	131,703	274,274	3	0.00	898	0.68	0.68	
				1991	1992	104,867	298,732	0	0.00	90	0.09	0.09	
				1992	1993	99,210	275,525	2	0.00	368	0.37	0.37	
				1993	1994	99,086	155,754	0	0.00	760	0.77	0.77	
				1994	1995	104,795	278,778	0	0.00	609	0.58	0.58	
				1995	1996	104,577	273,807	0	0.00	662	0.63	0.63	
				1996	1997	105,408	217,135	0	0.00	306	0.29	0.29	
				1997	1998	105,517	362,140	0	0.00	339	0.32	0.32	
				1998	1999	102,295	447,375	0	0.00	368	0.36	0.36	
				1989	1990	158,109	300,927	6	0.00	1,520	0.96	0.97	
				1990	1991	111,439	236,513	4	0.00	1,240	1.11	1.12	
				1991	1992	50,507	496,805	0	0.00	39	0.08	0.08	
				1992	1993	51,501	495,164	0	0.00	140	0.27	0.27	
				1993	1994	54,881	494,342	0	0.00	403	0.73	0.73	
				1994	1995	53,273	495,137	0	0.00	228	0.43	0.43	
				1995	1996	54,066	494,481	0	0.00	297	0.55	0.55	
				1996	1997	104,233	680,482	0	0.00	200	0.19	0.19	
				1997	1998	126,056	759,367	0	0.00	432	0.34	0.34	
1998	1999	103,467	661,895	0	0.00	306	0.30	0.30					
Summer Steelhead	Little Sheep Creek	029	1989	1990	52,527	249,563	0	0.00	532	1.01	1.01		
			1990	1991	94,390	243,008	0	0.00	831	0.88	0.88		
			1991	1992	105,670	248,787	1	0.00	8	0.01	0.01		
			1992	1993	95,306	286,716	1	0.00	215	0.23	0.23		
			1993	1994	95,621	300,775	0	0.00	172	0.18	0.18		
			1994	1995	108,595	287,836	0	0.00	426	0.39	0.39		
			1995	1996	105,711	322,146	0	0.00	268	0.25	0.25		
			1996	1997	54,245	208,936	0	0.00	134	0.25	0.25		
			1997	1998	78,428	113,857	0	0.00	271	0.35	0.35		
			1998	1999	76,486	334,672	0	0.00	222	0.29	0.29		
Jack Creek	Fall Chinook	096	Jack Creek	1988	1989	25,579	98,868	17	0.07	8	0.03	0.10	
			Jack Creek	1989	1990	27,487	31,255	27	0.10	1	0.00	0.10	
			Jack Creek	1990	1991	23,514	24,665	207	0.88	44	0.19	1.07	
Klaskanine	Coho	015	Klaskanine River	1989	1991	30,159	1,258,897	227	0.75	247	0.82	1.57	
			Klaskanine River	1990	1992	31,141	1,021,458	55	0.18	62	0.20	0.38	

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Hatchery	Species	Stock	Release Site	Brood Year	Release Year	Number Released		Ocean Recovery		Freshwater Recovery		Survival %
						CWT	Total	Num	%	Num	%	
Klaskanine	Coho	015	Klaskanine River	1991	1993	25,977	848,853	10	0.04	74	0.28	0.32
			Klaskanine River	1992	1994	26,574	831,887	15	0.06	69	0.26	0.32
			Klaskanine River	1994	1996	24,974	837,355	6	0.02	124	0.50	0.52
	Coho	014	Umatilla River	1995	1997	29,531	73,522	0	0.00	11	0.04	0.04
	Coho	114	Klaskanine River	1993	1995	26,279	1,201,313	13	0.05	122	0.46	0.51
	Fall Chinook	013	NF Klaskanine River	1988	1989	209,187	4,031,048	135	0.06	41	0.02	0.08
	Fall Chinook	052	NF Klaskanine River	1995	1996	25,322	26,178	7	0.03	44	0.17	0.20
				1996	1997	36,815	603,960	15	0.04	125	0.34	0.38
				1997	1998	53,272	661,977	75	0.14	232	0.44	0.58
				1998	1999	51,101	703,200	127	0.25	113	0.22	0.47
Lookingglass	Spring Chinook	029	Imnaha River	1988	1990	226,268	249,795	0	0.00	838	0.37	0.37
			Imnaha River	1989	1991	167,990	267,670	0	0.00	198	0.12	0.12
			Imnaha River	1990	1992	259,377	262,500	0	0.00	52	0.02	0.02
			Imnaha River	1991	1993	156,886	157,659	0	0.00	10	0.01	0.01
			Imnaha River	1992	1994	421,847	438,617	0	0.00	34	0.01	0.01
			Imnaha River	1993	1995	386,120	394,304	3	0.00	288	0.07	0.08
			Imnaha River	1994	1996	82,418	84,371	0	0.00	17	0.02	0.02
			Imnaha River	1995	1997	49,663	50,912	0	0.00	92	0.19	0.19
			Imnaha River	1996	1998	86,932	93,128	0	0.00	211	0.24	0.24
			Imnaha River	1997	1999	177,120	194,936	7	0.00	591	0.33	0.34
	Spring Chinook	200W	Lostine River	1997	1999	11,179	11,870	0	0.00	36	0.32	0.32
	Spring Chinook	085	Lookingglass Creek	1988	1990	171,234	619,639	0	0.00	662	0.39	0.39
				1989	1991	171,712	331,634	0	0.00	178	0.10	0.10
				1990	1992	167,115	950,868	0	0.00	71	0.04	0.04
				1991	1993	446,248	448,219	0	0.00	131	0.03	0.03
				1992	1994	739,180	765,123	0	0.00	683	0.09	0.09
				1993	1995	630,618	658,230	8	0.00	584	0.09	0.09
				1994	1996	134,812	139,112	0	0.00	58	0.04	0.04
				1995	1997	176,276	184,357	0	0.00	589	0.33	0.33
				1996	1998	279,673	302,148	0	0.00	696	0.25	0.25
Snake River	1992	1994	79,382	84,051	0	0.00	0	0.00	0.00			
Spring Chinook	081	Lookingglass Creek	1997	1999	295,766	312,145	0	0.00	764	0.26	0.26	
Marion Forks	Spring Chinook	021	Santiam River	1988	1990	31,918	450,351	53	0.17	323	1.01	1.18
			Santiam River	1989	1991	31,683	524,341	25	0.08	161	0.51	0.59
			Santiam River	1990	1992	34,835	553,887	10	0.03	49	0.14	0.17
			Santiam River	1991	1993	71,502	444,917	12	0.02	149	0.21	0.23

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Hatchery	Species	Stock	Release Site	Brood Year	Release Year	Number Released		Ocean Recovery		Freshwater Recovery		Survival %	
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Marion Forks	Spring Chinook	021	Santiam River	1992	1994	28,469	489,825	25	0.09	15	0.05	0.14	
			Santiam River	1993	1995	30,780	665,684	14	0.05	61	0.20	0.24	
			Santiam River	1994	1996	25,687	699,402	7	0.03	67	0.26	0.29	
			Santiam River	1995	1997	33,195	696,435	19	0.06	110	0.33	0.39	
			Santiam River	1996	1998	652,585	725,100	393	0.06	4,317	0.66	0.72	
			Santiam River	1997	1999	582,329	597,543	351	0.06	3,697	0.63	0.70	
McKenzie	Spring Chinook	019	Clackamas River	1994	1996	158,469	159,987	4	0.00	35	0.02	0.02	
	Spring Chinook	022	Clackamas River	1995	1997	55,525	73,577	2	0.00	34	0.06	0.06	
	Spring Chinook	023	Clackamas River	1995	1996	178,135	183,603	21	0.01	257	0.14	0.16	
			Clackamas River	1995	1997	60,290	71,392	0	0.00	4	0.01	0.01	
			Clackamas River	1996	1998	222,466	244,402	84	0.04	602	0.27	0.31	
			Clackamas River	1997	1999	77,537	78,504	16	0.02	129	0.17	0.19	
			McKenzie River	1988	1989	30,951	213,448	51	0.16	103	0.33	0.50	
	McKenzie River	1988	1990	30,207	436,445	76	0.25	352	1.17	1.42			
	McKenzie River	1989	1990	51,078	190,959	19	0.04	73	0.14	0.18			
	McKenzie River	1989	1991	34,563	670,045	31	0.09	101	0.29	0.38			
	McKenzie River	1990	1991	49,264	236,504	9	0.02	160	0.32	0.34			
	McKenzie River	1990	1992	93,981	786,057	3	0.00	50	0.05	0.06			
	McKenzie River	1991	1992	30,724	228,440	10	0.03	29	0.09	0.13			
	McKenzie River	1991	1993	92,937	576,902	51	0.05	140	0.15	0.21			
	McKenzie River	1992	1994	678,222	732,635	51	0.01	1,151	0.17	0.18			
	McKenzie River	1993	1995	82,684	480,183	13	0.02	146	0.18	0.19			
	McKenzie River	1994	1996	85,033	592,237	18	0.02	171	0.20	0.22			
	McKenzie River	1995	1997	160,873	953,885	26	0.02	492	0.31	0.32			
	McKenzie River	1996	1997	258,600	266,907	72	0.03	507	0.20	0.22			
	McKenzie River	1996	1998	569,641	621,221	299	0.05	3,874	0.68	0.73			
	McKenzie River	1997	1998	241,943	250,639	32	0.01	416	0.17	0.19			
	McKenzie River	1997	1999	626,580	675,142	179	0.03	4,157	0.66	0.69			
	Mohawk River				1996	1998	35,455	42,301	4	0.01	117	0.33	0.34
	Willamette River				1992	1994	178,065	256,547	17	0.01	29	0.02	0.03
	Willamette River				1993	1994	169,897	179,740	36	0.02	128	0.08	0.10
	Willamette River				1993	1995	145,598	214,054	4	0.00	38	0.03	0.03
	Willamette River				1994	1995	118,379	124,049	28	0.02	64	0.05	0.08
Willamette River				1995	1997	58,908	84,787	4	0.01	27	0.05	0.05	
Willamette River				1996	1997	122,913	126,512	32	0.03	199	0.16	0.19	
Willamette River				1996	1998	66,933	76,958	14	0.02	68	0.10	0.12	

Table 15. Tag Recoveries for ODFW Hatchery Stocks

Hatchery	Species	Stock	Release Site	Brood Year	Release Year	Number Released		Ocean Recovery		Freshwater Recovery		Survival %
						CWT	Total	Num	%	Num	%	
McKenzie	Spring Chinook	023	Willamette River	1997	1998	110,937	120,290	0	0.00	65	0.06	0.06
			Willamette River	1997	1999	233,892	245,706	10	0.00	66	0.03	0.03
	Spring Chinook	024	Molalla River	1995	1997	19,881	63,890	2	0.01	6	0.03	0.04
Nehalem	Coho	099	NF Nehalem River	1990	1992	53,836	763,551	326	0.61	349	0.65	1.25
			NF Nehalem River	1993	1995	53,382	789,983	35	0.07	231	0.43	0.50
			NF Nehalem River	1996	1998	49,306	140,729	23	0.05	493	1.00	1.05
	Coho	032	NF Nehalem River	1989	1991	54,635	790,480	317	0.58	204	0.37	0.95
			NF Nehalem River	1991	1993	54,424	695,465	6	0.01	216	0.40	0.41
			NF Nehalem River	1992	1994	52,317	839,514	29	0.06	152	0.29	0.35
			NF Nehalem River	1994	1996	51,705	636,519	10	0.02	198	0.38	0.40
			NF Nehalem River	1995	1997	51,545	576,156	6	0.01	144	0.28	0.29
NF Nehalem River	1997	1999	53,167	160,758	9	0.02	125	0.24	0.25			
NF Nehalem River	1998	1998	51,817	157,466	82	0.16	1,247	2.41	2.56			
Fall Chinook	034	Necanicum River	1997	1998	27,582	27,900	67	0.24	0	0.00	0.24	
		Necanicum River	1998	1999	25,640	26,995	0	0.00	0	0.00	0.00	
Noble Creek	Coho	037	Noble Creek	1990	1992	20,645	31,005	101	0.49	143	0.69	1.18
			Noble Creek	1993	1995	23,877	70,871	12	0.05	46	0.19	0.24
			Noble Creek	1994	1996	25,348	65,298	3	0.01	39	0.15	0.17
			Noble Creek	1996	1998	26,861	73,799	6	0.02	95	0.35	0.38
			Noble Creek	1997	1999	25,624	118,648	4	0.02	29	0.11	0.13
			Noble Creek	1998	2000	28,133	122,350	10	0.04	276	0.98	1.02
	Fall Chinook	037	Noble Creek	1989	1990	52,328	272,125	54	0.10	45	0.09	0.19
			Noble Creek	1992	1993	52,672	52,848	45	0.09	206	0.39	0.48
			Noble Creek	1993	1994	55,429	516,882	52	0.09	102	0.18	0.28
			Noble Creek	1994	1995	50,812	394,655	31	0.06	40	0.08	0.14
			Noble Creek	1995	1996	53,620	399,167	22	0.04	131	0.24	0.29
			Noble Creek	1996	1997	53,725	409,066	14	0.03	52	0.10	0.12
			Noble Creek	1997	1998	54,163	425,100	47	0.09	232	0.43	0.52
Noble Creek	1998	1999	53,453	397,075	26	0.05	195	0.36	0.41			
Oak Springs	Summer Steelhead	091	Meacham Creek	1989	1990	56,014	59,671	0	0.00	532	0.95	0.95
			Meacham Creek	1990	1991	57,852	59,547	0	0.00	468	0.81	0.81
	Winter Steelhead	050	EF Hood River	1993	1994	25,253	26,018	0	0.00	90	0.36	0.36
EF Hood River			1994	1995	39,072	42,898	0	0.00	148	0.38	0.38	
EF Hood River			1995	1996	50,087	50,866	0	0.00	27	0.05	0.05	
Pendleton Acc.	Coho	014	Umatilla River	1998	2000	26,528	513,288	32	0.12	157	0.59	0.71
Pistol River	Fall Chinook	017	Pistol River	1988	1989	8,244	10,852	16	0.19	4	0.05	0.24

Table 15. Tag Recoveries for ODFW Hatchery Stocks

Hatchery	Species	Stock	Release Site	Brood Year	Release Year	Number Released		Ocean Recovery		Freshwater Recovery		Survival %		
						CWT	Total	Num	%	Num	%			
Pistol River	Fall Chinook	017	Pistol River	1989	1990	23,817	29,524	155	0.65	29	0.12	0.77		
Priorli Creek	Fall Chinook	037	Morgan Creek	1990	1991	79,006	75,638	74	0.09	34	0.04	0.14		
			Morgan Creek	1997	1998	24,943	103,618	31	0.12	79	0.32	0.44		
			Morgan Creek	1998	1999	25,343	91,496	30	0.12	67	0.26	0.38		
Rock Creek	Coho	055	Rock Creek	1989	1991	54,908	227,862	680	1.24	190	0.35	1.58		
			Rock Creek	1990	1992	52,115	155,193	356	0.68	242	0.46	1.15		
			Rock Creek	1991	1993	51,030	153,601	14	0.03	304	0.60	0.62		
			Rock Creek	1992	1994	53,951	149,140	26	0.05	191	0.35	0.40		
			Rock Creek	1993	1995	50,632	132,493	18	0.04	69	0.14	0.17		
			Rock Creek	1994	1996	48,720	153,818	10	0.02	126	0.26	0.28		
			Rock Creek	1995	1997	49,630	104,773	16	0.03	231	0.47	0.50		
			Rock Creek	1996	1998	54,443	143,565	47	0.09	272	0.50	0.59		
			Rock Creek	1997	1999	56,776	114,138	129	0.23	156	0.27	0.50		
			Rock Creek	1998	2000	25,578	52,353	99	0.39	27	0.11	0.49		
			Fall Chinook	018	Umpqua River	1991	1992	23,457	91,713	34	0.14	3	0.01	0.16
					Umpqua River	1992	1993	23,743	103,539	99	0.42	1	0.00	0.42
					Umpqua River	1993	1994	25,593	75,662	96	0.38	2	0.01	0.38
					Umpqua River	1994	1995	24,598	51,920	67	0.27	13	0.05	0.33
Umpqua River	1995	1996			80,680	84,739	224	0.28	39	0.05	0.33			
Cow Creek	1987	1988			25,670	36,515	44	0.17	2	0.01	0.18			
Cow Creek	1988	1989			25,391	96,328	3	0.01	0	0.00	0.01			
SF Umpqua River	1989	1990			54,124	60,000	30	0.06	1	0.00	0.06			
SF Umpqua River	1990	1991			59,954	72,619	0	0.00	0	0.00	0.00			
SF Umpqua River	1991	1992			43,321	98,330	0	0.00	0	0.00	0.00			
SF Umpqua River	1992	1993			25,753	26,050	12	0.05	6	0.02	0.07			
SF Umpqua River	1993	1994			25,741	129,898	2	0.01	0	0.00	0.01			
SF Umpqua River	1994	1995	25,692	200,612	0	0.00	2	0.01	0.01					
Spring Chinook	055	Rock Creek	1987	1988	25,537	159,694	4	0.02	2	0.01	0.02			
		Rock Creek	1987	1989	25,027	102,788	155	0.62	21	0.08	0.70			
		Rock Creek	1988	1989	24,652	170,469	29	0.12	3	0.01	0.13			
		Rock Creek	1988	1990	23,088	157,522	94	0.41	26	0.11	0.52			
		Rock Creek	1989	1990	26,238	156,465	15	0.06	2	0.01	0.06			
		Rock Creek	1989	1991	26,927	153,391	189	0.70	46	0.17	0.87			
		Rock Creek	1990	1991	20,146	162,318	30	0.15	9	0.04	0.19			
		Rock Creek	1990	1992	22,579	165,633	80	0.35	14	0.06	0.42			
		Rock Creek	1991	1992	25,495	149,643	0	0.00	0	0.00	0.00			

Table 15. Tag Recoveries for ODFW Hatchery Stocks

Hatchery	Species	Stock	Release Site	Brood Year	Release Year	Number Released		Ocean Recovery		Freshwater Recovery		Survival %			
						CWT	Total	Num	%	Num	%				
Rock Creek	Spring Chinook	055	Rock Creek	1991	1993	20,432	148,134	11	0.05	4	0.02	0.07			
			Rock Creek	1992	1993	24,502	155,003	13	0.05	2	0.01	0.06			
			Rock Creek	1992	1994	24,170	147,185	229	0.95	9	0.04	0.98			
			Rock Creek	1993	1994	25,150	67,539	37	0.15	2	0.01	0.16			
			Rock Creek	1993	1995	24,029	235,551	106	0.44	5	0.02	0.46			
			Rock Creek	1994	1995	25,512	66,477	14	0.05	3	0.01	0.07			
			Rock Creek	1994	1996	25,240	232,367	87	0.34	7	0.03	0.37			
			Rock Creek	1995	1996	25,849	73,826	9	0.03	1	0.00	0.04			
			Rock Creek	1995	1996	25,360	234,644	29	0.11	11	0.04	0.16			
			Rock Creek	1996	1997	23,652	100,352	28	0.12	10	0.04	0.16			
			Rock Creek	1996	1998	23,538	147,308	63	0.27	52	0.22	0.49			
			Rock Creek	1997	1998	24,965	151,050	74	0.30	6	0.02	0.32			
			Rock Creek	1997	1999	26,526	27,710	196	0.74	6	0.02	0.76			
			Rock Creek	1998	1999	27,284	148,656	93	0.34	0	0.00	0.34			
				SF Umpqua			1989	1990	74,166	76,459	0	0.00	0	0.00	0.00
				SF Umpqua			1990	1991	29,154	86,867	1	0.00	0	0.00	0.00
	SF Umpqua			1991	1992	64,980	79,121	0	0.00	1	0.00	0.00			
	SF Umpqua			1992	1993	81,984	84,825	4	0.00	4	0.00	0.01			
Round Butte	Spring Chinook	066	Deschutes River	1988	1990	122,245	259,447	0	0.00	1,795	1.47	1.47			
			Deschutes River	1989	1991	120,207	270,891	0	0.00	976	0.81	0.81			
			Deschutes River	1990	1992	118,920	270,779	0	0.00	322	0.27	0.27			
			Deschutes River	1991	1993	230,048	235,906	0	0.00	734	0.32	0.32			
			Deschutes River	1992	1994	232,724	237,569	2	0.00	1,022	0.44	0.44			
			Deschutes River	1993	1995	230,632	239,219	2	0.00	229	0.10	0.10			
			Deschutes River	1994	1996	320,496	333,466	0	0.00	274	0.09	0.09			
			Deschutes River	1995	1997	316,186	320,694	3	0.00	962	0.30	0.31			
			Deschutes River	1996	1998	316,690	332,236	3	0.00	559	0.18	0.18			
			Deschutes River	1997	1999	299,091	304,321	8	0.00	2,800	0.94	0.94			
			WF Hood River	1991	1993	28,133	28,810	0	0.00	0	0.00	0.00			
			WF Hood River	1994	1996	121,296	127,156	0	0.00	8	0.01	0.01			
			WF Hood River	1995	1997	99,493	102,472	0	0.00	29	0.03	0.03			
			WF Hood River	1996	1998	121,119	126,659	0	0.00	1	0.00	0.00			
			WF Hood River	1997	1999	83,229	91,010	0	0.00	310	0.37	0.37			
			MF Hood River	1997	1999	29,635	30,409	0	0.00	101	0.34	0.34			
Salmon River	Coho	036	Salmon River	1989	1991	26,235	505,175	98	0.37	30	0.11	0.49			
			Salmon River	1990	1992	27,226	255,933	58	0.21	101	0.37	0.58			

Table 15. Tag Recoveries for ODFW Hatchery Stocks

Hatchery	Species	Stock	Release Site	Brood Year	Release Year	Number Released		Ocean Recovery		Freshwater Recovery		Survival %
						CWT	Total	Num	%	Num	%	
Salmon River	Coho	036	Salmon River	1991	1993	25,548	405,164	10	0.04	70	0.27	0.31
			Salmon River	1992	1994	19,553	403,118	11	0.06	38	0.19	0.25
			Salmon River	1993	1995	25,050	316,281	10	0.04	91	0.36	0.40
			Salmon River	1994	1996	25,993	322,200	0	0.00	60	0.23	0.23
			Salmon River	1995	1997	21,399	200,206	8	0.04	119	0.56	0.59
			Salmon River	1996	1998	25,045	118,361	15	0.06	170	0.68	0.74
	Coho	033	Rock Creek	1989	1991	25,229	528,833	59	0.23	41	0.16	0.40
			Siletz River	1989	1991	24,505	458,606	26	0.11	2	0.01	0.11
			Rock Creek	1990	1992	26,985	403,303	62	0.23	98	0.36	0.59
			Siletz River	1990	1992	26,460	376,541	9	0.03	3	0.01	0.05
			Rock Creek	1991	1993	24,852	371,014	4	0.02	45	0.18	0.20
			Siletz River	1991	1993	25,560	374,192	3	0.01	5	0.02	0.03
			Rock Creek	1992	1994	49,464	820,830	1	0.00	41	0.08	0.08
			Rock Creek	1993	1995	25,878	312,144	5	0.02	23	0.09	0.11
			Salmon River	1996	1998	27,078	274,660	18	0.07	209	0.77	0.84
			Salmon River	1997	1999	26,089	85,402	11	0.04	54	0.21	0.25
			Salmon River	1998	2000	9,318	9,626	9	0.10	150	1.61	1.71
			Yaquina River	1993	1995	25,432	306,402	17	0.07	259	1.02	1.09
			Yaquina River	1994	1996	40,936	539,381	8	0.02	177	0.43	0.45
	Yaquina River	1995	1997	40,394	410,543	16	0.04	192	0.48	0.51		
	Fall Chinook	036	Salmon River	1987	1988	193,469	200,782	1,041	0.54	2,121	1.10	1.63
			Salmon River	1988	1989	172,356	202,128	421	0.24	620	0.36	0.60
			Salmon River	1989	1990	203,362	211,483	1,169	0.57	1,627	0.80	1.37
			Salmon River	1990	1991	184,109	195,786	1,565	0.85	4,349	2.36	3.21
			Salmon River	1991	1992	184,912	193,184	206	0.11	628	0.34	0.45
			Salmon River	1992	1993	169,353	205,175	461	0.27	2,196	1.30	1.57
			Salmon River	1993	1994	184,054	206,574	1,541	0.84	4,344	2.36	3.20
Salmon River			1994	1995	172,256	205,215	639	0.37	1,493	0.87	1.24	
Salmon River			1995	1996	171,301	186,780	269	0.16	2,405	1.40	1.56	
Salmon River			1996	1997	194,096	203,986	342	0.18	1,317	0.68	0.85	
Salmon River			1997	1998	179,888	205,489	670	0.37	2,006	1.12	1.49	
Salmon River			1998	1999	190,423	198,979	103	0.05	399	0.21	0.26	
Fall Chinook			146W	Yaquina River	1998	1999	26,032	93,980	17	0.07	2	0.01
Sandy	Coho	011	Cedar Creek (Sandy R)	1989	1991	104,862	241,056	1,539	1.47	1,401	1.34	2.80
			Cedar Creek (Sandy R)	1990	1992	225,775	1,037,280	263	0.12	300	0.13	0.25
			Cedar Creek (Sandy R)	1991	1993	217,454	1,022,951	148	0.07	1,872	0.86	0.93

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Hatchery	Species	Stock	Release Site	Brood Year	Release Year	Number Released		Ocean Recovery		Freshwater Recovery		Survival
						CWT	Total	Num	%	Num	%	%
Sandy	Coho	011	Cedar Creek (Sandy R)	1992	1994	188,044	917,334	286	0.15	602	0.32	0.47
			Cedar Creek (Sandy R)	1993	1995	107,572	112,610	32	0.03	320	0.30	0.33
			Cedar Creek (Sandy R)	1994	1996	220,654	668,951	21	0.01	602	0.27	0.28
			Cedar Creek (Sandy R)	1995	1997	130,377	670,670	43	0.03	1,011	0.78	0.81
			Cedar Creek (Sandy R)	1996	1998	59,021	255,602	37	0.06	230	0.39	0.45
			Cedar Creek (Sandy R)	1997	1999	117,497	661,837	215	0.18	1,614	1.37	1.56
			Cedar Creek (Sandy R)	1998	2000	126,494	808,295	397	0.31	472	0.37	0.69
			Klickitat River (WA)	1995	1997	30,918	273,896	3	0.01	7	0.02	0.03
Sevenmile	Fall Chinook	044	Sevenmile Creek	1992	1993	25,714	53,723	59	0.23	4	0.02	0.25
South Santiam	Spring Chinook	024	SF Santiam River	1988	1989	33,177	479,297	15	0.05	48	0.14	0.19
			SF Santiam River	1988	1990	30,841	291,638	18	0.06	58	0.19	0.25
			SF Santiam River	1989	1990	127,939	402,459	181	0.14	586	0.46	0.60
			SF Santiam River	1989	1991	225,787	699,798	411	0.18	1,436	0.64	0.82
			SF Santiam River	1990	1991	158,403	478,559	118	0.07	1,421	0.90	0.97
			SF Santiam River	1990	1992	255,355	775,179	6	0.00	145	0.06	0.06
			SF Santiam River	1991	1992	162,055	499,788	47	0.03	279	0.17	0.20
			SF Santiam River	1992	1993	50,833	482,682	11	0.02	100	0.20	0.22
			SF Santiam River	1992	1994	54,156	462,431	8	0.01	67	0.12	0.14
			SF Santiam River	1993	1994	47,628	217,625	8	0.02	37	0.08	0.09
			SF Santiam River	1993	1995	62,764	701,613	16	0.03	212	0.34	0.36
			SF Santiam River	1994	1995	50,366	377,611	1	0.00	23	0.05	0.05
			SF Santiam River	1994	1996	60,646	704,816	41	0.07	260	0.43	0.50
			SF Santiam River	1995	1996	50,011	214,098	4	0.01	34	0.07	0.08
			SF Santiam River	1995	1997	55,003	432,577	54	0.10	373	0.68	0.78
			SF Santiam River	1996	1997	52,336	299,569	6	0.01	142	0.27	0.28
			SF Santiam River	1996	1998	60,777	679,318	43	0.07	238	0.39	0.46
			SF Santiam River	1997	1998	283,842	304,596	26	0.01	417	0.15	0.16
SF Santiam River	1997	1999	688,952	712,475	428	0.06	3,787	0.55	0.61			
Stayton Pond	Fall Chinook	014	Santiam River	1992	1993	51,429	1,254,750	0	0.00	0	0.00	0.00
			Santiam River	1993	1994	46,981	1,402,112	0	0.00	1	0.00	0.00
			Santiam River	1994	1995	53,689	54,086	18	0.03	18	0.03	0.07
			Tanner Creek	1992	1993	55,442	56,442	0	0.00	0	0.00	0.00
			Tanner Creek	1993	1994	53,383	55,057	0	0.00	23	0.04	0.04
			Tanner Creek	1994	1995	52,482	52,935	17	0.03	51	0.10	0.13
			Willamette River	1988	1989	173,719	4,595,132	115	0.07	163	0.09	0.16
			Willamette River	1989	1990	234,694	5,869,652	843	0.36	748	0.32	0.68

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Hatchery	Species	Stock	Release Site	Brood Year	Release Year	Number Released		Ocean Recovery		Freshwater Recovery		Survival %
						CWT	Total	Num	%	Num	%	
Stayton Pond	Fall Chinook	014	Willamette River	1990	1991	196,187	9,516,779	151	0.08	155	0.08	0.16
			Willamette River	1991	1992	196,429	10,092,295	4	0.00	6	0.00	0.01
			Willamette River	1992	1993	206,306	5,031,540	3	0.00	1	0.00	0.00
			Willamette River	1993	1994	194,519	5,844,119	4	0.00	30	0.02	0.02
			Willamette River	1994	1995	206,717	10,667,979	44	0.02	85	0.04	0.06
Trask	Coho	034	Trask River	1989	1991	50,199	343,683	300	0.60	184	0.37	0.96
			Trask River	1990	1992	50,083	407,595	127	0.25	178	0.36	0.61
			Trask River	1991	1993	53,601	408,218	4	0.01	244	0.46	0.46
			Trask River	1992	1994	50,579	407,548	48	0.09	376	0.74	0.84
			Trask River	1993	1995	214,790	216,610	27	0.01	1,103	0.51	0.53
			Trask River	1994	1996	26,357	201,098	3	0.01	157	0.60	0.61
			Trask River	1995	1997	23,229	144,533	11	0.05	270	1.16	1.21
			Trask River	1996	1998	25,918	212,525	33	0.13	527	2.03	2.16
			Trask River	1997	1999	26,220	189,230	73	0.28	638	2.43	2.71
			Trask River	1998	2000	26,664	196,385	165	0.62	2,722	10.21	10.83
	Fall Chinook	034	Trask River	1987	1988	86,326	446,096	556	0.64	138	0.16	0.80
			Trask River	1988	1989	67,134	328,766	332	0.49	129	0.19	0.69
			Trask River	1989	1990	50,822	195,996	92	0.18	22	0.04	0.22
			Trask River	1990	1991	44,762	154,470	137	0.31	56	0.13	0.43
			Trask River	1991	1992	38,855	149,586	50	0.13	69	0.18	0.31
			Trask River	1992	1993	51,761	157,961	157	0.30	228	0.44	0.74
			Trask River	1993	1994	22,304	61,072	41	0.18	30	0.13	0.32
			Trask River	1994	1995	24,881	58,217	96	0.39	60	0.24	0.63
			Trask River	1995	1996	24,372	82,655	51	0.21	59	0.24	0.45
			Trask River	1996	1997	25,695	66,986	36	0.14	28	0.11	0.25
			Trask River	1997	1998	26,289	53,296	116	0.44	115	0.44	0.88
			Trask River	1998	1999	26,232	66,190	8	0.03	19	0.07	0.10
			Spring Chinook	034	Trask River	1987	1988	24,066	90,909	49	0.20	39
Trask River	1988	1989			52,664	134,344	64	0.12	67	0.13	0.25	
Trask River	1989	1990			62,151	197,167	55	0.09	53	0.09	0.17	
Trask River	1990	1991			64,189	148,941	39	0.06	83	0.13	0.19	
Trask River	1991	1992			76,471	178,980	13	0.02	30	0.04	0.06	
Trask River	1992	1993			59,496	154,217	84	0.14	83	0.14	0.28	
Trask River	1993	1994			40,548	58,193	31	0.08	48	0.12	0.19	
Trask River	1994	1995			47,035	52,759	13	0.03	17	0.04	0.06	
Trask River	1995	1996			49,928	54,468	16	0.03	32	0.06	0.10	

Table 15. Tag Recoveries for ODFW Hatchery Stocks

Hatchery	Species	Stock	Release Site	Brood Year	Release Year	Number Released		Ocean Recovery		Freshwater Recovery		Survival %
						CWT	Total	Num	%	Num	%	
Trask	Spring Chinook	034	Trask River	1996	1997	51,419	54,227	21	0.04	23	0.04	0.09
			Trask River	1997	1998	26,316	38,367	33	0.13	24	0.09	0.22
	Winter Chinook	034	Trask River	1987	1988	14,701	47,969	5	0.03	0	0.00	0.03
			Trask River	1988	1989	5,803	5,891	8	0.14	0	0.00	0.14
			Trask River	1990	1991	26,406	43,562	75	0.28	24	0.09	0.37
			Trask River	1991	1992	24,619	46,661	24	0.10	41	0.17	0.26
			Trask River	1992	1993	26,207	51,877	78	0.30	126	0.48	0.78
			Trask River	1993	1994	27,579	47,598	86	0.31	87	0.32	0.63
			Trask River	1994	1995	22,074	50,383	37	0.17	21	0.10	0.26
			Trask River	1995	1996	26,185	35,719	42	0.16	57	0.22	0.38
			Trask River	1996	1997	25,801	49,100	14	0.05	32	0.12	0.18
			Trask River	1997	1998	26,707	49,381	82	0.31	79	0.30	0.60
			Trask River	1998	1999	24,779	38,222	0	0.00	23	0.09	0.09
			EF of SF Trask River	1989	1991	27,472	722,883	60	0.22	39	0.14	0.36
			EF of SF Trask River	1990	1992	26,139	630,346	93	0.36	61	0.23	0.59
			EF of SF Trask River	1991	1993	26,985	683,133	3	0.01	99	0.37	0.38
			EF of SF Trask River	1992	1994	25,234	844,161	5	0.02	114	0.45	0.47
			Spring Chinook	034	Trask & Wilson Rivers	1993	1994	25,561	172,229	46	0.18	77
Trask Pond	Spring Chinook	034	Trask River	1994	1995	25,438	91,539	32	0.13	65	0.26	0.38
			Trask & Wilson Rivers	1995	1996	26,215	199,685	12	0.05	26	0.10	0.14
			Trask & Wilson Rivers	1996	1997	26,002	194,552	10	0.04	15	0.06	0.10
			Trask & Wilson Rivers	1997	1998	25,934	206,468	12	0.05	7	0.03	0.07
			Trask River	1998	1999	25,153	150,875	16	0.06	6	0.02	0.09
Trojan Pond	Coho	011	Columbia River	1989	1991	27,206	120,655	34	0.12	21	0.08	0.20
			Columbia River	1991	1993	27,809	263,571	18	0.06	41	0.15	0.21
Tuffy Creek	Spring Chinook	034	Wilson River	1990	1991	23,524	90,960	61	0.26	30	0.13	0.39
			Wilson & Kilchis Rivers	1991	1992	26,516	102,935	12	0.05	11	0.04	0.09
			Wilson River	1992	1993	21,674	88,778	26	0.12	26	0.12	0.24
			Wilson River	1993	1994	19,351	80,402	15	0.08	30	0.16	0.23
			Wilson River	1994	1995	26,639	109,083	10	0.04	22	0.08	0.12
			Wilson River	1998	1999	24,873	104,138	9	0.04	3	0.01	0.05
Umatilla	Fall Chinook	095	Umatilla River	1991	1992	304,698	2,678,343	0	0.00	6	0.00	0.00
			Umatilla River	1992	1993	294,842	2,629,917	52	0.02	142	0.05	0.07
			Umatilla River	1995	1997	60,327	260,968	5	0.01	11	0.02	0.03
	Fall Chinook	045	Umatilla River	1993	1994	308,481	2,843,212	72	0.02	171	0.06	0.08
			Umatilla River	1994	1995	294,197	2,466,298	0	0.00	5	0.00	0.00

Table 15. Tag Recoveries for ODFW Hatchery Stocks

Hatchery	Species	Stock	Release Site	Brood Year	Release Year	Number Released		Ocean Recovery		Freshwater Recovery		Survival	
						CWT	Total	Num	%	Num	%	%	
Umatilla	Fall Chinook	045	Umatilla River	1994	1996	70,023	143,087	0	0.00	24	0.03	0.03	
			Umatilla River	1995	1996	298,056	2,960,413	55	0.02	181	0.06	0.08	
			Umatilla River	1995	1997	126,983	258,953	215	0.17	825	0.65	0.82	
			Umatilla River	1996	1997	291,815	2,580,833	18	0.01	110	0.04	0.04	
			Umatilla River	1996	1998	44,330	179,100	13	0.03	79	0.18	0.21	
			Umatilla River	1997	1998	284,861	288,297	11	0.00	59	0.02	0.02	
			Umatilla River	1997	1999	21,741	48,901	0	0.00	41	0.19	0.19	
	Spring Chinook	075	Umatilla River	1991	1992	558,303	1,057,169	0	0.00	3	0.00	0.00	
			Umatilla River	1991	1993	83,843	208,782	0	0.00	3	0.00	0.00	
			Umatilla River	1992	1993	665,659	1,128,176	0	0.00	27	0.00	0.00	
			Umatilla River	1992	1994	81,943	205,143	0	0.00	49	0.06	0.06	
			Umatilla River	1993	1994	657,189	1,217,634	3	0.00	108	0.02	0.02	
			Umatilla River	1993	1995	209,807	673,331	5	0.00	410	0.20	0.20	
			Umatilla River	1994	1996	137,208	378,561	0	0.00	3	0.00	0.00	
			Umatilla River	1995	1997	80,546	225,883	0	0.00	517	0.64	0.64	
	Spring Chinook	091	Umatilla River	1997	1998	43,764	114,370	0	0.00	68	0.16	0.16	
			Umatilla River	1997	1999	86,007	204,930	2	0.00	131	0.15	0.15	
	Summer Steelhead	091	Umatilla River	1991	1992	91,486	199,404	0	0.00	73	0.08	0.08	
			Umatilla River	1992	1993	92,952	248,268	1	0.00	385	0.41	0.42	
			Umatilla River	1993	1994	57,034	153,098	0	0.00	221	0.39	0.39	
			Umatilla River	1994	1995	57,884	146,463	0	0.00	558	0.96	0.96	
			Umatilla River	1995	1996	61,580	146,703	0	0.00	221	0.36	0.36	
			Umatilla River	1996	1997	58,699	137,287	0	0.00	161	0.27	0.27	
			Umatilla River	1997	1998	60,914	137,485	0	0.00	286	0.47	0.47	
			Umatilla River	1998	1999	60,325	121,633	0	0.00	103	0.17	0.17	
	Wahkeena Pond	Coho	014	Columbia River	1989	1991	29,975	1,100,244	4	0.01	2	0.01	0.02
				Columbia River	1990	1992	28,073	1,900,000	51	0.18	47	0.17	0.35
				Columbia River	1991	1993	24,445	1,499,778	3	0.01	85	0.35	0.36
Coho		011	Columbia River	1992	1994	23,472	1,503,732	3	0.01	3	0.01	0.03	
Willamette	Spring Chinook	022	Fall Creek (MF Wil)	1997	1999	87,361	90,722	15	0.02	428	0.49	0.51	
			Willamette River	1994	1995	28,349	172,858	20	0.07	55	0.19	0.26	
			Willamette River	1995	1996	30,888	86,216	5	0.02	54	0.17	0.19	
			MF Willamette River	1988	1989	63,988	442,518	29	0.05	236	0.37	0.41	
			MF Willamette River	1988	1990	30,106	815,968	27	0.09	342	1.14	1.23	
			MF Willamette River	1989	1990	82,867	479,052	49	0.06	390	0.47	0.53	

Table 15. Tag Recoveries for ODFW Hatchery Stocks

Hatchery	Species	Stock	Release Site	Brood Year	Release Year	Number Released		Ocean Recovery		Freshwater Recovery		Survival %
						CWT	Total	Num	%	Num	%	
Willamette	Spring Chinook	022	MF Willamette River	1989	1991	443,876	861,534	266	0.06	2,224	0.50	0.56
			MF Willamette River	1990	1991	80,486	406,417	32	0.04	459	0.57	0.61
			MF Willamette River	1990	1992	475,124	1,151,223	21	0.00	397	0.08	0.09
			MF Willamette River	1991	1992	77,752	315,264	10	0.01	137	0.18	0.19
			MF Willamette River	1991	1993	509,582	1,066,200	84	0.02	1,231	0.24	0.26
			MF Willamette River	1992	1993	26,170	278,005	2	0.01	88	0.34	0.34
			MF Willamette River	1992	1994	380,898	1,003,754	87	0.02	879	0.23	0.25
			MF Willamette River	1993	1995	49,710	1,187,412	26	0.05	265	0.53	0.59
			MF Willamette River	1994	1996	54,521	1,317,490	20	0.04	234	0.43	0.47
			MF Willamette River	1995	1997	62,067	632,365	14	0.02	136	0.22	0.24
			MF Willamette River	1996	1997	31,797	253,303	6	0.02	41	0.13	0.15
			MF Willamette River	1996	1998	31,695	552,403	13	0.04	300	0.95	0.99
			MF Willamette River	1997	1998	240,805	251,210	24	0.01	626	0.26	0.27
			MF Willamette River	1997	1999	922,851	962,413	218	0.02	9,143	0.99	1.01
			Willamette	Spring Chinook	023	Willamette River	1996	1997	52,301	61,099	29	0.06
Willamette River	1997	1998				60,187	61,190	11	0.02	194	0.32	0.34
Spring Chinook	024	Molalla River				1996	1998	24,413	68,398	38	0.16	80
		Molalla River	1997	1998	29,836	30,193	7	0.02	58	0.19	0.22	
		Molalla River	1997	1999	57,520	60,626	35	0.06	287	0.50	0.56	
Winchuck River	Fall Chinook	007	Winchuck River	1988	1989	19,908	35,411	17	0.09	2	0.01	0.10
			Winchuck River	1989	1990	27,192	40,891	61	0.22	6	0.02	0.25
Yaquina Bay	Fall Chinook	146W	Yaquina River	1996	1997	24,388	123,743	58	0.24	17	0.07	0.31
			Yaquina River	1997	1998	26,099	103,831	191	0.73	34	0.13	0.86

Table 16. Marking and Tagging Summary for Calendar Year 2004

HATCHERY	SPECIES	STOCK/BY	#*1000	MARK APPLIED	RELEASE LOCATION	RELEASE DATE	TAG CODE	NUMBER MARKED
Bandon	Fall Chinook	3703	30	AdCWT	Morgan Cr.	05/29/04	09-24-37	32,015
	Fall Chinook	3703	30	AdCWT	Noble Cr.	06/05/04	09-24-38	31,112
	TOTAL		60					63,127
Big Creek	Fall Chinook	1303	200	AdCWT	Big Cr.	04/24/04	09-41-22	227,698
	Fall Chinook	5203	25	AdLVCWT	Klaskanine R.	08/14/04	09-39-59	27,254
	Fall Chinook	5203	25	AdLVCWT	Klaskanine R.	08/14/04	09-39-60	27,860
	Fall Chinook	5203	700	LV only	Klask. R./YB	Various	None	630,667
	Coho	1303	25	AdCWT	Big Cr.	04/30/04	09-41-25	26,674
	Coho	1303	25	AdCWT	Big Cr.	05/31/04	09-41-26	27,429
	Coho	1303	485	Ad only	Big Cr.	Various	None	456,640
	Winter Steelhead	1304	160	Ad only	Gnat/Klas/Big	Various	None	157,669
TOTAL		1645					1,581,891	
Bonneville	Fall Chinook	9503	200	AdCWT	Ringold Pond	05/14/04	09-39-63	212,405
	Fall Chinook	9503	50	AdCWT	Tanner Cr.	07/31/04	09-37-49	54,155
	Fall Chinook	9503	50	AdCWT	Tanner Cr.	06/30/04	09-37-50	54,272
	Fall Chinook	9103	25	AdCWT	Umatilla R.	02/15/05	09-40-53	26,904
	Fall Chinook	9103	215	TB only	Umatilla R.	02/15/05	TB	200,725
	Fall Chinook	9103	25	AdCWT	Umatilla R.	02/15/05	09-40-54	26,925
	Fall Chinook	9103	215	TB only	Umatilla R.	02/15/05	TB	200,725
	Coho	1403	25	AdCWT	Tanner Cr.	05/02/05	09-40-52	26,530
	Summer Steelhead	2404	215	Ad only	Various	Various	None	254,743
	Winter Steelhead	1104W	60	Ad only	Sandy R.	05/15/06	None	92,000
TOTAL		1080					1,149,384	
Butte Falls	Fall Chinook	4403	25	AdCWT	7-Mile Cr.	09/16/04	09-26-62	26,892
	Coho	1803	25	AdCWT	N. Umpqua R.	04/08/05	09-37-15	28,275
	Coho	5503	25	AdCWT	N. Umpqua R.	04/15/05	09-37-16	28,317
	Coho	1803	35	Ad only	Umpqua R.	04/08/05	None	37,505
	Coho	4403	50	Ad only	7-Mile/Bandon	04/15/05	None	45,046
	Coho	5503	37.5	Ad only	Calapooya Cr.	04/15/05	None	43,912
	Coho	5503	10	AdLM	N. Umpqua R.	04/15/05	None	10,011
	Coho	50903	10	AdRM	N. Umpqua R.	04/15/05	None	10,257
	TOTAL		217.5					230,215
Canyonville	Fall Chinook	1803	100	AdCWT	Calapooya Cr.	05/14/04	09-40-31	106,116
	TOTAL		100					106,116
Cascade	Coho	1403	2740	Ad only	Various	Various	None	2,845,944
	Coho	1403	25	AdCWT	Tongue Pt.	05/01/05	09-39-45	27,105
	Coho	1403	25	AdCWT	Youngs Bay	05/01/05	09-39-46	27,267
	Coho	1403	25	AdCWT	Umatilla R.	03/15/05	09-40-48	26,950
	Coho	1403	25	AdCWT	Umatilla R.	04/01/05	09-40-49	26,835
TOTAL		2840					2,954,101	
Cedar Creek	Spring Chinook	4703	25	AdCWT	Nestucca R.	07/17/04	09-32-41	25,961
	Spring Chinook	4703	85	Ad only	Nest./Three R.	07/17/04	None	90,174
	TOTAL		110					116,135

Table 16. Marking and Tagging Summary for Calendar Year 2004

HATCHERY	SPECIES	STOCK/BY	#*1000	MARK APPLIED	RELEASE LOCATION	RELEASE DATE	TAG CODE	NUMBER MARKED
Cole Rivers	Fall Chinook	3703	25	AdCWT	Morgan Cr.	09/14/04	09-21-11	27,850
	Spring Chinook	5203	30	AdCWT	Rogue R.	08/14/04	09-40-04	32,466
	Spring Chinook	5203	50	AdCWT	Rogue R.	09/14/04	09-40-11	54,364
	Spring Chinook	5203	30	AdCWT	Rogue R.	10/14/04	09-40-05	32,752
	Spring Chinook	5203	50	CWT only	Rogue R.	09/14/04	09-40-12	55,145
	Spring Chinook	5203	700	Ad only	Rogue R.	08/14/04	None	707,884
	Spring Chinook	5203	630	Ad only	Rogue R.	09/14/04	None	614,230
	Spring Chinook	5203	132	Ad only	Rogue R.	10/14/04	None	135,222
	Spring Chinook	5203	300	Ad only	Rogue R.	08/14/04	None	319,064
	Coho	3703	25	AdCWT	Noble Cr.	03/31/05	09-37-17	27,587
	Coho	5203	25	CWT only	Rogue R.	05/01/05	09-40-50	27,380
	Coho	5203	25	AdCWT	Rogue R.	05/01/05	09-40-51	27,859
	Coho	5203	150	Ad only	Rogue R.	05/01/05	None	164,648
	Coho	3703	95	Ad only	Noble Cr.	03/31/05	None	52,788
	Rainbow Trout*	7203	119	Ad only	Various		None	119,873
	Summer Steelhead*	5204	197	Ad only	Rogue R.	04/20/05	None	197,289
	Summer Steelhead*	5204	20	AdLVL	Rogue R.	04/20/05	None	20,370
	Winter Steelhead*	5203	150	Ad only	Rogue R.	04/26/05	None	151,537
	Winter Steelhead*	5203	20	AdLP	Rogue R.	04/26/05	None	20,000
	Winter Steelhead*	6203	147	Ad only	Applegate R.	04/16/05	None	147,672
	Winter Steelhead*	6203	20	AdRP	Applegate R.	04/16/05	None	20,000
	Winter Steelhead*	3704	130	AdRV	Coos R.	04/1/05	None	130,986
Winter Steelhead*	8804	26	AdRV	Various	04/1/05	None	26,043	
	TOTAL		3096					3,113,009
Elk River	Fall Chinook	3503	200	AdCWT	Elk R.	09/14/04	09-39-61	28,337
	Fall Chinook	9603	25	AdCWT	Chetco R.	09/14/04	09-21-13	220,692
	TOTAL		225					249,029
Fall River	Rainbow Trout	12704	210	Ad only	Various	06/15/04	None	127,409
	Rainbow Trout	12704W	85.3	Ad only	Various	06/15/04	None	63,488
	TOTAL		295.3					190,897
Gardiner	Fall Chinook	15103	25	AdCWT	Umpqua R.	06/29/04	09-39-56	25,965
	Fall Chinook	15103	25	AdCWT	Umpqua R.	06/29/04	09-39-57	25,585
	Fall Chinook	15103	25	AdCWT	Umpqua R.	06/29/04	09-39-58	28,432
	Fall Chinook	15103	25	AdCWT	Umpqua R.	06/29/04	09-21-12	25,728
	TOTAL		100					105,710
Gnat Creek	Spring Chinook	2203	700	Ad only	TP/BS/YB	03/15/05	None	695,842
	Spring Chinook	2203	25	AdCWT	Blind Slough	03/15/05	09-39-29	27,684
	Spring Chinook	2203	25	AdCWT	Tongue Pt.	04/01/05	09-39-30	26,638
	Spring Chinook	2203	25	AdCWT	Youngs Bay	04/01/05	09-39-31	28,165
	Spring Chinook	2203	25	AdCWT	John Day R.	04/01/05	09-39-32	27,385
	TOTAL		800					805,714
U. Herman Cr	Coho	1403	25	AdCWT	Tanner Cr.	06/02/05	09-39-43	28,197
	Coho	1403	25	AdCWT	Youngs Bay	04/15/05	09-39-44	28,718
	TOTAL		50					56,915
Indian Creek	Fall Chinook	6103	25	AdCWT	Rogue R.	08/31/04	09-21-15	26,001
	TOTAL		25					26,001

*Fish marked by Cole Rivers Hatchery, not by Fish Stock Identification

Table 16. Marking and Tagging Summary for Calendar Year 2004

HATCHERY	SPECIES	STOCK/BY	#*1000	MARK APPLIED	RELEASE LOCATION	RELEASE DATE	TAG CODE	NUMBER MARKED	
Irrigon	Summer Steelhead	2904	25	AdLVCWT	L. Sheep Cr.	04/15/05	09-41-03	27,096	
	Summer Steelhead	2904	50	TB	L. Sheep Cr.	04/14/05	TB	49,183	
	Summer Steelhead	2904	50	AdLVCWT	B. Sheep Cr.	04/15/05	09-40-20	52,599	
	Summer Steelhead	5604	25	AdLVCWT	Wallowa R.	04/09/05	09-41-04	26,918	
	Summer Steelhead	5604	25	AdLVCWT	Wallowa R.	04/09/05	09-41-05	27,059	
	Summer Steelhead	5604	25	AdLVCWT	Wallowa R.	04/09/05	09-41-06	27,021	
	Summer Steelhead	5604	25	AdLVCWT	Wallowa R.	05/16/05	09-41-07	26,964	
	Summer Steelhead	5604	25	AdRVCWT	Wallowa R.	04/09/05	09-41-08	27,043	
	Summer Steelhead	5604	25	AdRVCWT	Wallowa R.	04/09/05	09-41-09	27,085	
	Summer Steelhead	5604	25	AdRVCWT	Wallowa R.	04/09/05	09-41-10	27,078	
	Summer Steelhead	5604	25	AdRVCWT	Wallowa R.	05/16/05	09-41-11	26,919	
	Summer Steelhead	5604	25	AdLVCWT	Big Canyon	04/16/05	09-41-12	27,040	
	Summer Steelhead	5604	25	AdLVCWT	Big Canyon	05/21/05	09-41-13	27,066	
TOTAL			375					399,071	
Ives Island	Fall Chinook	Wild	10	AdCWT	Ives Island	Various	09-35-22	8,526	
	Fall Chinook	Wild	10	AdCWT	Ives Island	Various	09-35-21	8,613	
	Fall Chinook	Wild	5	AdCWT	Ives Island	Various	09-40-25	4,249	
	Fall Chinook	Wild	5	AdCWT	Ives Island	Various	09-40-26	4,375	
TOTAL			30					25,763	
Leaburg	Summer Steelhead	2404	108	Ad only	McKenzie	04/08/05	None	133,000	
	Rainbow Trout	7203	367	Ad only	Various	Various	None	364,000	
TOTAL			475					497,000	
Lookingglass	Spring Chinook	2903	74	AdCWT	Imnaha R.	04/01/05	09-40-32	74,096	
	Spring Chinook	2903	74	AdCWT	Imnaha R.	04/01/05	09-40-33	74,110	
	Spring Chinook	2903	74	AdCWT	Imnaha R.	04/01/05	09-40-34	74,015	
	Spring Chinook	2903	74	Ad only	Imnaha R.	04/01/05	None	74,215	
	Spring Chinook	2903	74	Ad only	Imnaha R.	04/01/05	None	74,086	
	Spring Chinook	2903	74	Ad only	Imnaha R.	04/01/05	None	67,980	
	Spring Chinook	200F03	52	AdCWT	Lostine R.	04/01/05	09-23-48	43,861	
	Spring Chinook	200F03	26	AdCWT	Lostine R.	04/01/05	09-40-41	18,614	
	Spring Chinook	200W03	55	AdCWT	Lostine R.	04/01/05	09-40-37	51,064	
	Spring Chinook	200W03	55	AdCWT	Lostine R.	04/01/05	09-40-38	52,098	
	Spring Chinook	80F03	1.5	AdCWT	U. Gra. Ron.	04/01/05	09-41-27	1,025	
	Spring Chinook	80W03	63	CWT only	U. Gra. Ron.	04/01/05	09-40-35	50,046	
	Spring Chinook	80W03	63	CWT only	U. Gra. Ron.	04/01/05	09-40-36	55,051	
	Spring Chinook	201F03	36	Ad only	Lookingglass	04/01/05	None	31,698	
	Spring Chinook	201F03	24	Ad only	Lookingglass	04/01/05	None	3,299	
	Spring Chinook	201F03	35	AdCWT	Catherine Cr.	04/01/05	09-40-39	34,947	
	Spring Chinook	201F03	35	AdCWT	Catherine Cr.	04/01/05	09-40-40	34,942	
	Spring Chinook	201F03	59	AdCWT	Catherine Cr.	04/01/05	09-38-24	67,773	
	Spring Chinook	201W03	52	AdCWT	Catherine Cr.	04/01/05	07-07-53	58,983	
	Spring Chinook	201W03	52	AdCWT	Catherine Cr.	04/01/05	07-07-54	59,782	
	Spring Chinook	200F30	37	AdCWT	Lostine	04/01/05	09-36-45	27,071	
	Spring Chinook	2903	21	PIT	Imnaha R.	04/01/05	PIT	21,000	
	Spring Chinook	20003	16	PIT	Lostine R.	04/01/05	PIT	15,900	
	Spring Chinook	20103	21	PIT	Catherine Cr.	04/01/05	PIT	21,000	
	Spring Chinook	20103	1	PIT	Lookingglass	04/01/05	PIT	1,000	
	Spring Chinook	8003	1.5	PIT	U.Gran.Ronde	04/01/05	PIT	1,490	
	Spring Chinook	20003W	110	VIE only	Lostine R.	04/01/05	Red-L	102,341	
	Spring Chinook	20103W	104	VIE only	Catherine Cr.	04/01/05	Green-L	120,635	
	TOTAL			1364					1,312,122

Table 16. Marking and Tagging Summary for Calendar Year 2004

HATCHERY	SPECIES	STOCK/BY	#*1000	MARK APPLIED	RELEASE LOCATION	RELEASE DATE	TAG CODE	NUMBER MARKED
Marion Forks	Spring Chinook	1103	280	Ad only	Cedar Cr.	03/16/05	None	335,303
	Spring Chinook	1903	530	Ad only	Clackamas R.	03/16/05	None	594,411
	Spring Chinook	2103	607	Ad only	N. Santiam R.	03/02/05	None	722,178
	Spring Chinook	2103	100	Ad only	Detroit Res.	07/14/04	None	103,694
	Spring Chinook	2103	30	AdCWT	N. Santiam R.	03/02/05	09-39-26	30,434
	Spring Chinook	2103	30	AdCWT	N. Santiam R.	03/02/05	09-40-09	31,380
	Spring Chinook	1103	50	AdCWT	Cedar Cr.	03/16/05	09-40-13	55,731
	Spring Chinook	1903	50	AdCWT	Clackamas R.	03/16/05	09-40-14	49,873
	Spring Chinook	1903	50	CWT only	Clackamas R.	03/16/05	09-40-15	56,215
	Spring Chinook	1903	60	LM only	Clackamas R.	03/16/05	None	60,058
	TOTAL		1787					2,039,277
McKenzie	Spring Chinook	2303	30	AdCWT	McKenzie R.	11/14/04	09-40-07	31,750
	Spring Chinook	2303	30	AdCWT	McKenzie R.	03/10/05	09-40-08	32,052
	Spring Chinook	2303	50	AdCWT	McKenzie R.	02/01/05	09-39-27	51,584
	Spring Chinook	2303	50	CWT only	McKenzie R.	02/01/05	09-39-28	51,556
	Spring Chinook	2303	320	Ad only	McKenzie R.	11/14/04	None	327,952
	Spring Chinook	2303	719	Ad only	McKenzie R.	02/01/05	None	745,885
	TOTAL		1199					1,240,779
Nehalem	Coho	3203	25	AdCWT	Nehalem R.	03/16/05	09-37-19	26,547
	Coho	3203	25	AdCWT	Nehalem R.	04/16/05	09-37-20	26,406
	Coho	3403	25	AdRMCWT	Trask R.	03/02/05	09-20-07	26,491
	Coho	3403	25	AdRMCWT	Trask R.	04/11/05	09-20-08	26,510
	Coho	3203	25	Ad only	Nehalem R.	03/16/05	None	25,026
	Coho	3203	25	Ad only	Nehalem R.	04/16/05	None	25,079
	Coho	3403	25	AdRM	Trask R.	03/02/05	None	25,012
	Coho	3403	25	AdRM	Trask R.	04/11/05	None	25,660
	Winter Steelhead	3204	90	Ad only	Neh./Nec. R.	04/02/05	None	92,913
	Winter Steelhead	9904	40	AdRM	Nehalem R.	04/02/05	None	42,231
	TOTAL		330					341,875
Oak Springs	Rainbow Trout	15304	65	Ad only	Various	Various	None	12,244
	Rainbow Trout	12704	30	AdLV	Various	Various	None	31,000
	Rainbow Trout	5303	75	LV only	Various	Various	None	78,020
	Rainbow Trout	5303	20	Ad only	Various	Various	None	53,522
	Summer Steelhead	2404	65	Ad only	Various	Various	None	69,000
	Summer Steelhead	5004	40	AdRM	W Hood R.	04/16/05	None	49,500
	Winter Steelhead	12204W	40	AdLM	Clackamas R.	04/25/05	None	46,000
	Winter Steelhead	5004W	50	AdRV	Various	Various	None	79,000
	TOTAL		385					418,286
Oxbow	Spring Chinook	1903	50	AdCWT	Clackamas R.	07/31/04	09-40-17	57,917
	Spring Chinook	1903	260	Ad only	Clackamas R.	07/31/04	None	254,251
	Coho	1403	25	AdCWT	Umatilla R.	03/15/05	09-37-35	27,672
	Sockeye	8503	40	AdLVCWT	Redfish Lake	05/10/05		39,053
	TOTAL		375					378,893

Table 16. Marking and Tagging Summary for Calendar Year 2004

HATCHERY	SPECIES	STOCK/BY	#*1000	MARK APPLIED	RELEASE LOCATION	RELEASE DATE	TAG CODE	NUMBER MARKED
Rock Creek	Spring Chinook	5503	25	AdCWT	N. Umpqua R.	09/30/04	09-37-13	26,528
	Spring Chinook	5503	25	AdCWT	N. Umpqua R.	02/01/05	09-37-14	26,611
	Spring Chinook	5503	120	Ad only	N. Umpqua R.	09/30/04	None	125,508
	Spring Chinook	5503	242	Ad only	N. Umpqua R.	02/01/05	None	249,365
	Summer Steelhead	5503	110	Ad only	N. Umpqua R.	03/01/06	None	48,300
	Summer Steelhead	5504	45	Ad only	N. Umpqua	04/01/05	None	45,000
	Winter Steelhead	1804	48	Ad only	S. Umpqua	04/01/05	None	48,000
	Winter Steelhead	1803	120	Ad only	S. Umpqua R.	04/01/06	None	68,400
	Rainbow Trout	17103	60	Ad only	Diamond Lake	05/01/05	None	27,650
	TOTAL		795					665,362
Round Butte	Sockeye	6602	3	AdCWT	Deschutes R.	04/01/04	09-34-18	2,697
	Spring Chinook	6603	83	AdCWT	Deschutes R.	04/15/05	09-40-42	84,862
	Spring Chinook	6603	83	AdCWT	Deschutes R.	04/15/05	09-40-43	82,096
	Spring Chinook	6603	83	AdCWT	Deschutes R.	04/15/05	09-40-44	82,155
	Spring Chinook	6603	83	AdCWT	Deschutes R.	04/15/05	09-40-45	76,499
	Spring Chinook	5003	49	AdRMCWT	WF Hood R.	04/09/05	09-40-46	49,119
	Spring Chinook	5003	49	AdRMCWT	WF Hood R.	04/09/05	09-40-47	49,269
	Spring Chinook	5003	30	AdLVCWT	MF Hood R.	04/16/05	09-40-10	30,100
		TOTAL		463				
Salmon River	Fall Chinook	3603	200	AdCWT	Salmon R.	08/14/04	09-39-62	210,430
	Fall Chinook	14603	25	AdCWT	Yaquina R.	09/01/04	09-21-14	26,073
	Fall Chinook	14603	125	RV only	Yaquina R.	09/01/04	None	94,307
	Coho	3303	25	AdCWT	Salmon R.	05/02/05	09-37-18	26,189
	Coho	3303	175	Ad only	Salmon R.	05/02/05	None	5,784
	Summer Steelhead	3304	75	Ad only	Siletz R.	03/30/05	None	74,259
	TOTAL		625					437,042
Sandy	Coho	1103	25	AdCWT	Blind Slough	05/02/05	09-41-14	27,140
	Coho	1103	25	AdCWT	Sandy R.	04/16/05	09-41-15	27,095
	Coho	1103	25	AdCWT	Sandy R.	05/16/05	09-41-16	27,094
	Coho	1103	25	CWT only	Sandy R.	05/16/05	09-41-17	27,061
	Coho	1103	900	Ad only	Various	Various	None	1,018,191
	TOTAL		1000					1,126,581
South Fork	Spring Chinook	2403	575	Ad only	S. Klaskanine	03/16/05	None	563,353
	Spring Chinook	2403	25	AdCWT	S. Klaskanine	03/16/05	09-37-36	28,219
	TOTAL		600					591,572
S. Santiam	Spring Chinook	2403	50	AdCWT	S. Santiam R.	10/31/04	09-40-16	55,494
	Spring Chinook	2403	250	Ad only	S. Santiam R.	10/31/04	None	247,895
	Summer Steelhead	2404	184.5	Ad only	N. Santiam R.	04/02/05	None	185,962
	TOTAL		484.5					489,351
Trask	Spring Chinook	3403	25	AdCWT	Trask R.	07/25/04	09-34-49	27,889
	Spring Chinook	3403	25	AdCWT	Wilson R.	07/25/04	09-34-50	27,435
	Spring Chinook	3403	122	Ad only	Trask R.	07/25/04	None	122,934
	Spring Chinook	3403	80	Ad only	Wilson R.	07/25/04	None	64,235
	Fall Chinook	3403	25	AdCWT	Trask R.	08/07/04	09-27-13	26,700
	Fall Chinook	3403	25	AdCWT	Necanicum R.	09/04/04	09-27-14	26,863
	Winter Steelhead	12104W	50	Ad only	Wilson R.	04/30/05	None	68,423
	TOTAL		352					364,479

Table 16. Marking and Tagging Summary for Calendar Year 2004

HATCHERY	SPECIES	STOCK/BY	#*1000	MARK APPLIED	RELEASE LOCATION	RELEASE DATE	TAG CODE	NUMBER MARKED
Umatilla	Fall Chinook	9503	150	AdCWT	Umatilla R.	05/31/04	09-40-30	158,201
	Fall Chinook	9503	150	AdCWT	Umatilla R.	05/31/04	09-40-27	150,133
	Fall Chinook	9503	150	AdCWT	Umatilla R.	05/31/04	09-40-28	151,229
	Fall Chinook	9503	150	AdCWT	Umatilla R.	05/31/04	09-40-29	150,147
	Spring Chinook	9103	20	AdRVCWT	Imeques	03/16/05	09-40-61	21,598
	Spring Chinook	9103	20	AdRVCWT	Imeques	03/16/05	09-40-62	21,540
	Spring Chinook	9103	20	AdRVCWT	Imeques	03/16/05	09-40-63	21,403
	Spring Chinook	9103	20	AdRVCWT	Imeques	03/16/05	09-41-01	21,829
	Spring Chinook	9103	20	AdRVCWT	Imeques	03/16/05	09-41-02	21,686
	Spring Chinook	9103	20	AdRVCWT	Imeques	03/16/05	09-38-61	21,601
	Summer Steelhead	9104	20	AdLVCWT	Umatilla R.	04/01/05	09-41-18	21,602
	Summer Steelhead	9104	20	AdLVCWT	Umatilla R.	04/16/05	09-41-19	21,700
	Summer Steelhead	9104	20	AdLVCWT	Umatilla R.	04/30/05	09-41-20	21,739
TOTAL			780					804,408
Willamette	Spring Chinook	2203	25	AdCWT	Columbia R.	3/15/2005	09-40-60	26,614
	Spring Chinook	2203	25	AdCWT	Columbia R.	3/15/2005	09-40-55	26,630
	Spring Chinook	2203	25	AdCWT	Columbia R.	3/15/2005	09-40-56	26,598
	Spring Chinook	2203	25	AdCWT	Columbia R.	3/15/2005	09-40-57	26,732
	Spring Chinook	2203	25	AdCWT	Columbia R.	3/15/2005	09-40-58	26,690
	Spring Chinook	2203	25	AdCWT	Columbia R.	3/15/2005	09-40-59	26,712
	Spring Chinook	2203	10	Ad only	Columbia R.	3/15/2005	None	10,983
	Spring Chinook	2203	1282	Ad only	Various	Various	None	1,251,281
	Spring Chinook	2403	293	Ad only	Various	Various	None	479,510
	Spring Chinook	2403	508	Ad only	S Santiam R.	03/02/05	None	336,602
	Spring Chinook	2203	207	Ad only	M Willamette R	03/05/05	None	224,138
	Spring Chinook	1903	180	Ad only	Clackamas R.	03/21/05	None	174,509
	Spring Chinook	2203	30	AdCWT	M Willamette R	02/01/05	09-40-01	32,744
	Spring Chinook	2203	30	AdCWT	M Willamette R	03/05/05	09-40-02	34,054
	Spring Chinook	2403	30	AdCWT	S. Santiam R.	02/15/05	09-40-03	32,591
	Spring Chinook	2403	30	AdCWT	S. Santiam R.	03/02/05	09-39-25	33,036
	Spring Chinook	1903	30	AdCWT	Clackamas R.	03/21/05	09-37-44	33,017
	Spring Chinook	2203	50	AdCWT	M. Willamette	10/31/04	09-40-18	55,019
	Spring Chinook	2203	30	AdCWT	Fall Creek	03/01/05	09-37-45	31,301
	Spring Chinook	2403	30	AdCWT	S. Santiam R.	03/10/05	09-41-23	32,614
	Spring Chinook	2403	30	AdCWT	Molalla R.	03/01/05	09-41-24	31,769
	Spring Chinook	1903	30	AdCWT	Clackamas R.	03/21/05	09-40-06	33,243
	Summer Steelhead	2404	42	Ad only	N. Santiam R.	04/02/05	None	45,617
	Summer Steelhead	2404	115	Ad only	M Willamette R	04/08/05	None	122,033
Rainbow Trout	7203	278	Ad only	Various	Various	None	336,711	
Rainbow Trout	5303	200	Ad only	Hill Cr. Res.	06/01/04	None	116,106	
TOTAL			3585					3,606,854
Youngs Bay	Fall Chinook	5203	25	AdLVCWT	Youngs Bay	07/30/04	09-39-54	25,512
	Fall Chinook	5203	375	LV only	Youngs Bay	07/30/04	None	378,559
	Fall Chinook	5203	25	AdLVCWT	Youngs Bay	07/30/04	09-39-55	25,605
	Fall Chinook	5203	175	LV only	Youngs Bay	07/30/04	None	130,050
	Spring Chinook	2203	50	Ad only	Youngs Bay	04/01/05	None	49,476
TOTAL			650					609,202

Table 16. Marking and Tagging Summary for Calendar Year 2004

HATCHERY	SPECIES	STOCK/BY	#*1000	MARK APPLIED	RELEASE LOCATION	RELEASE DATE	TAG CODE	NUMBER MARKED	
TOTALS BY SPECIES									
	Coho			Ad only				4,720,563	
				AdLM				10,011	
				AdRM				60,929	
				AdCWT				545,886	
				AdRMCWT				53,001	
				CWT only				54,441	
							TOTAL	5,444,831	
	Fall Chinook			TB only				401,450	
				LV only				1,139,276	
				RV only				94,307	
				AdCWT				2,132,623	
				AdLVCWT				106,231	
							TOTAL	3,873,887	
	Rainbow Trout			Ad only				1,221,003	
				LV only				78,020	
				AdLV				31,000	
							TOTAL	1,330,023	
	Sockeye			AdCWT				2,697	
				AdLVCWT				39,053	
							TOTAL	41,750	
	Spring Chinook			Ad only				9,797,157	
				LM only				60,058	
				AdCWT				2,295,669	
				AdRMCWT				98,388	
				AdLVCWT				30,100	
				AdRVCWT				129,657	
				CWT only				268,013	
				PIT				60,390	
				VIE				222,976	
							TOTAL	12,962,408	
	Summer Steelhead			Ad only				1,175,203	
				AdRM				49,500	
				AdLVCWT				306,804	
				AdRVCWT				108,125	
				AdLVLM				20,370	
				TB				49,183	
							TOTAL	1,709,185	
	Winter Steelhead			Ad only				826,614	
				AdLM				46,000	
				AdLP				20,000	
				AdRM				42,231	
				AdRP				20,000	
				AdRV				236,029	
							TOTAL	1,190,874	
				TOTAL FISH MARKED IN 2004					26,552,958
				TOTAL FISH TAGGED IN 2004					6,997,687

Table 17. Number of Tags Recovered by Fishery in 2004

FISHERY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
River Sport	0	466	352	0	0	61	0	95	808	621	608	0	3,011
Hatchery	0	4,572	3,598	208	0	11,332	946	2,328	1,713	4,854	1,921	0	31,472
Spawning	0	301	27	0	0	239	7	0	4	1,716	73	0	2,367
Columbia River Treaty Gillnet	0	0	0	0	0	0	0	1,786	589	0	0	0	2,375
Columbia River Non-Treaty Gillnet	0	0	0	1,493	0	0	0	0	0	0	0	0	1,493
Youngs Bay Commercial Gillnet	0	0	0	0	0	0	0	952	0	0	0	0	952
Columbia River Terminal Gillnet	0	0	0	0	0	0	0	593	0	134	184	0	911
Ocean Sport and Troll	2,121	1,358	0	0	0	0	0	0	554	1,139	1,925	4,838	11,935
Estuary Sport	0	0	182	0	0	0	0	749	0	9	0	0	940
Whiting By-Catch	0	0	0	0	0	0	0	0	0	0	0	0	0
Ceremonial and Subsistence	0	0	0	0	0	0	0	0	0	98	2	0	100
Totals	2,121	6,697	4,159	1,701	0	11,632	953	6,503	3,668	8,571	4,713	4,838	55,556
Verifications	959	44	0	0	0	0	0	0	0	0	0	1,121	2,124

Table 18. Status of Hatchery Genetic Management Plans

Region	Watershed	Program	Stock	Type of Activity (initial take)	ESUs IMPACTED	Status to Completion	Final Sub to NOAA
HD	Deschutes	Hood R. CHS	066/ 050W	adult coll.	M. Columbia steelhead	Final to NOAA	01/22/01
HD	Deschutes	Hood R. STW	050W	adult coll.	L. Columbia steelhead	Final to NOAA	01/22/01
HD	Deschutes	Hood R. STS	050W	adult coll.	L. Columbia steelhead	Final to NOAA	01/22/01
HD	Deschutes	Deschutes R. STS	066W	adult coll.	M. Columbia steelhead	Final to NOAA	04/13/04
HD	Deschutes	Deschutes R. CHS	066	adult coll.	M. Columbia steelhead	Final to NOAA	04/05/04
NE	Grande Ronde	Imnaha R. STS	029	adult coll.	Snake R. steelhead	Submitted to LSRCP	12/2/02
NE	Grande Ronde	Wallowa STS	056	releases	Columbia R. bull trout	Submitted to LSRCP	12/2/02
NE	Grande Ronde	Imnaha R. CHS	029	adult coll.	Snake R. chinook	Submitted to LSRCP	12/20/02
NE	Grande Ronde	Catherine Cr. CHS	201	adult coll.	Snake R. chinook	Final to NOAA	12/27/02
NE	Grande Ronde	Lostine R. CHS	200	adult coll.	Snake R. chinook	Final to NOAA	12/27/02
NE	Grande Ronde	U. Grande Ronde R. CHS	080	adult coll.	Snake R. chinook	Final to NOAA	12/27/02
NE	Grande Ronde	Lookingglass Cr. CHS	081	adult coll.	Snake R. steelhead	Final to NOAA	12/27/02
NE	John Day	Umatilla R. STS	091	adult coll.	M. Columbia steelhead	Posted for public comment	
NE	John Day	Umatilla R. Co	091	adult coll.	M. Columbia steelhead	in-development	
NE	John Day	Umatilla R. CHS	091	adult coll.	M. Columbia steelhead	in-development	
NE	John Day	Umatilla R. CHF	045	adult coll.	L. Columbia steelhead	in-development	
NW	M. Coast	Salmon R. Co	033	releases	OR Coast coho	Final to NOAA	11/07/01
NW	M. Coast	Siletz R. Co (STEP)	033W	adult coll.	OR Coast coho	Final to NOAA	10/29/01
NW	M. Coast	Munsel L. Coho (STEP)	038W			in development	
NW	M. Coast	Alsea Hatchery/Lakes RBT	072	releases	OR Coast coho	Needs public review	
NW	M. Coast	Alsea R. STW	043	releases	OR Coast coho	Final to NOAA	05/28/03
NW	M. Coast	Siletz R. STW	033W	releases	OR Coast coho	Final to NOAA	03/19/02
NW	M. Coast	Siletz R. STS	033	releases	OR Coast coho	Public Review Completed	
NW	M. Coast	Siuslaw R. STW	038	releases	OR Coast coho	Needs region review	
NW	M. Coast	Salmon R. CHF	036	releases	OR Coast coho	Needs region review	
NW	M. Coast	Yaquina R. CHF	146	releases	OR Coast coho	Needs region review	
NW	N. Coast	NF Nehalem R. Co	032 & 099	releases	OR Coast coho	Final to NMFS	03/27/01
NW	N. Coast	Trask R. Co	034	releases	OR Coast coho	Final to NMFS	09/10/01
NW	N. Coast	Wilson R. STW	121W	releases	OR Coast coho	Final to NMFS	08/09/01
NW	N. Coast	Fishhawk Lk. STW (Nehalem R.)	099	releases	OR Coast coho	80-85% complete	
NW	N. Coast	Nehalem R. STW	032	releases	OR Coast coho	80-85% complete	

Table 18. Status of Hatchery Genetic Management Plans

Region	Watershed	Program	Stock	Type of Activity (initial take)	ESUs IMPACTED	Status to Completion	Final Sub to NOAA
NW	N. Coast	Nestucca R. STW (Cedar Creek)	047 & 047W	releases	OR Coast coho	Final to NMFS	03/12/04
NW	N. Coast	Trask R. CHF	034	releases	OR Coast coho	draft in dev (70-75% com)	
NW	N. Coast	Nestucca R. STS	047	releases	OR Coast coho	Under Region Review	
NW	N. Coast	Nestucca R. CHS	047	adult coll.	OR Coast coho	draft in-dev. (85-90% com)	
NW	N. Coast	Nest.R./Rhoades P. CHF (STEP)	047W	releases	OR Coast coho	Final to NMFS	06/17/04
NW	N. Coast	Trask R. CHS	034	releases	OR Coast coho	draft in-dev (70-75% com)	
NW	N. Coast	Whiskey Cr. CHS (STEP)	034	releases	OR Coast coho	draft in dev (85-90% com)	
NW	N. Coast	Trask R. STW	047	adult coll.	OR Coast coho	80% complete	
NW	N. Coast	Big Creek STW	013	adult coll.	L. Columbia steelhead	Final to NMFS	3/2/2005
CRM	LCR	Big Creek CHF (Tule)	013	adult coll.	L. Columbia steelhead	Received public comment	
CRM	LCR	SAB Fall Chinook (Rogue stock)	052	adult coll.	L. Columbia steelhead	Received public comment	
CRM	LCR	Big Creek Coho	013	adult coll.	L. Columbia steelhead	Received public comment	
CRM	LCR	SAFE Coho**	011, 014, 019	adult coll.	L. Columbia steelhead	Received public comment	
NW	LCR	L. Columbia R. CHS	022	adult coll.	U. Willamette chinook	Received public comment	
NW	L+MCR+UR	Bonneville CHF (URB)	095	releases	L. Columbia steelhead	Received public comment	
NW	LCR	Bonneville Coho	014	adult coll.	M. Columbia steelhead	Received public comment	
NW	N. Willamette	Clackamas R. STW	122W	adult coll.	L. Columbia steelhead	Final to NMFS	10/25/2001
NW	N. Willamette	Sandy R. STW	011W	adult coll.	L. Columbia steelhead	Final to NMFS	03/06/02
NW	N. Willamette	Sandy R. CO	011	adult coll.	L. Columbia steelhead		
NW	N. Willamette	Sandy R. CHS	019	adult coll.	U. Willamette chinook	In-development, est. 9/02	
NW	N. Willamette	Clackamas R. STS	024	adult coll.	L. Columbia steelhead		
NW	N. Willamette	Sandy R. STS	024	adult coll.	L. Columbia steelhead		
NW	N. Willamette	Clackamas R. CHS	019	adult coll.	U. Willamette chinook	Final to NOAA	10/15/04
NW	S. Willamette	N. Santiam CHS	021	adult coll.	U. Willamette chinook	Submitted to COE/NOAA	02/24/04
NW	S. Willamette	S. Santiam R. CHS	024	adult coll.	U. Willamette chinook	Submitted to COE/NOAA	03/01/04
NW	S. Willamette	Willamette R. CHS	022	adult coll.	U. Willamette chinook	Final to NOAA	01/16/04
NW	S. Willamette	McKenzie R. CHS	023	adult coll.	U. Willamette chinook	Final to NOAA	01/16/04
NW	S. Willamette	Willamette R. RBT	024	adult coll.	U. Willamette steelhead	Fish Div Completed Rev.	
NW	S. Willamette	Willamette R. STS	024		U. Willamette steelhead	Submitted to COE/NOAA	11/24/04
SW	Rogue	Rogue R. CHS	052	adult coll.	SONC coho		
SW	Rogue	Rogue R. STS	052	adult coll.	SONC coho		

Table 18. Status of Hatchery Genetic Management Plans

Region	Watershed	Program	Stock	Type of Activity (initial take)	ESUs IMPACTED	Status to Completion	Final Sub to NOAA
SW	Rogue	Elk R. CHF	035	adult coll.	SONC coho		
SW	Rogue	Chetco R. CHF	096	releases	SONC coho		
SW	Rogue	Chetco R. StW	096	releases	SONC coho		
SW	Rogue	Rogue R. STW	052	adult coll.	SONC coho		
SW	Rogue	Applegate R. STW	062	releases	SONC coho		
SW	Rogue	Rogue R. Co	052	adult coll.	SONC coho		
SW	Rogue	Rogue R. ChF	061	releases	SONC coho		
SW	Umpqua	Coos River Co	037	adult coll.	OR Coast coho	Final to NMFS	08/07/01
SW	Umpqua	Coquille R. Co	044	releases	OR Coast coho	Final to NMFS	08/06/01
SW	Umpqua	Coos River ChF	037	releases	OR Coast coho	Posted for public comment	
SW	Umpqua	Coos River StW	037	releases	OR Coast coho	Posted for public comment	
SW	Umpqua	Coquille R. StW	044 & 144	releases	OR Coast coho	Posted for public comment	
SW	Umpqua	Tenmile Lks StW	088	releases	OR Coast coho	Posted for public comment	
SW	Umpqua	Tenmile Rainbow Trout	072	releases		in-development	
SW	Umpqua	Coquille R. CHF	044	releases	OR Coast coho	Posted for public comment	
SW	Umpqua	N. Umpqua R. CHS	055	releases	OR Coast coho	Posted for public comment	
SW	Umpqua	N. Umpqua R. StS	055	releases	OR Coast coho	Posted for public comment	
SW	Umpqua	South-Main Ump R. CHF	018/151	releases	OR Coast coho	Posted for public comment	
SW	Umpqua	Lower Ump/Smith R. CHF	151	releases	OR Coast coho	Posted for public comment	
SW	Umpqua	N. Umpqua R/S. Umpqua R. Co	055	releases	OR Coast coho	Final to NMFS	03/26/03
SW	Umpqua	S. Umpqua R. StW	018	releases	OR Coast coho	Posted for public comment	

Table 19. Fish Feed Purchased in 2004

Facility	Manufacturer	Cost	Pounds
Alsea	Skretting	\$525	440
	Silver Cup	\$46,428	149,950
Bandon	Bio-Oregon	\$9,472	19255
Bonneville	Bio-Oregon	\$78,343	134,529
	EWOS	\$3,050	8,000
	Silver Cup	\$10,867	33,000
Big Creek	Bio-Oregon	\$50,947	80,044
	Skretting	\$17,511	34,804
Butte Falls	Skretting	\$9,922	19,228
	Rangen	\$10,997	32,400
Cascade	Bio-Oregon	\$35,125	48,947
	Skretting	\$38,358	55,924
Cedar Creek	Bio-Oregon	\$18,973	39,978
Clackamas	Bio-Oregon	\$41,824	88,264
Cole Rivers	Bio-Oregon	\$222,010	408,676
	Skretting	\$77,220	161,412
	Rangen	\$1,674	5,356
Elk River	Bio-Oregon	\$25,370	50,048
	Skretting	\$1,552	1,980
Fall River	EWOS	\$2,415	2,818
	Skretting	\$2,291	2,327
	Silver Cup	\$13,552	42,800
Gnat Creek	Bio-Oregon	\$20,090	35,692
Irrigon	Bio-Oregon	\$2,296	2,288
	Silver Cup	\$95,264	297,000
Klamath	Skretting	\$12,950	17,952
	Silver Cup	\$18,654	53,500
Leaburg	Bio-Oregon	\$13,498	31,182
	Skretting	\$18,442	44,946
	Rangen	\$37,908	100,528
Lookingglass	Skretting	\$32,932	58,872
Marion Forks	Bio-Oregon	\$19,105	31,100
	Skretting	\$34,579	47,080
McKenzie	Bio-Oregon	\$112,596	152,337
North Nehalem	Bio-Oregon	\$14,113	35,602
	EWOS	\$665	704
	Skretting	\$286	660
	Silver Cup	\$11,763	37,900
Oak Springs	Bio-Oregon	\$3,955	7,456
	EWOS	\$26,773	37,444
	Silver Cup	\$34,084	92,694
Oxbow	Bio-Oregon	\$7,833	6,805
	Skretting	\$48,931	90,112
Roaring River	Bio-Oregon	\$17,695	22,484
	Skretting	\$1,949	2,288
	Silver Cup	\$57,725	181,620
Rock Creek	Bio-Oregon	\$39,934	81,885
	Skretting	\$65	87

Table 19. Fish Feed Purchased in 2004

Facility	Manufacturer	Cost	Pounds
Round Butte	Bio-Oregon	\$3,159	7,025
	EWOS	\$15,883	26,048
	Skretting	\$11,467	23,232
Salmon River	Bio-Oregon	\$19,989	41,084
	Skretting	\$2,747	5,280
Sandy	Bio-Oregon	\$18,191	34,714
	Skretting	\$21,457	37,904
South Santiam	Bio-Oregon	\$31,419	70,350
	Skretting	\$1,103	1,320
Trask	Bio-Oregon	\$13,618	25,192
	EWOS	\$4,055	5,324
	Skretting	\$38	44
Umatilla	Bio-Oregon	\$53,732	103,556
Wallowa	Skretting	\$212	264
	Silver Cup	\$9,465	29,000
Willamette	Bio-Oregon	\$28,937	55,450
	Skretting	\$135,965	238,749
	Rangen	\$18,146	49,300
Wizard Falls	Bio-Oregon	\$7,360	19,000
	Skretting	\$6,901	7,657
	Silver Cup	\$1,286	4,000
Total by Vendor	Bio-Oregon	\$909,584	1,632,913
	EWOS	\$52,841	80,338
	Skretting	\$477,403	852,562
	Rangen	\$68,725	187,584
	Silver Cup	\$299,088	921,464
	Grand Total	\$1,807,641	3,674,861

Table 20. Fish Sales Reported by Private Hatcheries in 2004

SPECIES	DEALER		FISH	POUNDS
	NUMBER	DEALER NAME		
Rainbow Trout	1079	Blue Den Ranch	30,600	10,565
	1104	Bryan Trout Ranch	103,460	6,897
	1108	Clear Creek Rainbow Ranch	22,340	188
	6620	Clear Creek Rainbow Ranch 2	62,129	14,482
	1081	Desert Springs Trout Farm	406,780	214,020
	2960	Four Springs Ranch	18,000	4,200
	5011	Fox Valley Fish Hatchery	7,408	5,179
	6245	Frontier Country Trout Pond	50	50
	6354	Have Fish Will Swim	1,500	4,500
	3739	Indian Springs Trout/Catfish	9,258	4,600
	6641	Island Springs Hatchery	15,000	4,000
	6248	Jackson Farms Inc.	1,500	1,500
	1087	Lake's Trout Farm Inc.	22,400	6,784
	2110	Mike Kaiser's Rainbow Farm	21,400	11,250
	4856	Prairie Springs Trout	100	500
	1398	Red Hills Lake	3,000	2,000
1107	Troutlodge	8,063	11,000	
SPECIES TOTAL			732,988	301,715
Arctic Char	1107	Troutlodge	1,038	4,476
Largemouth Bass	6193	Alan G Morris	84	60
	5838	Columbia Catfish and Bass	369	46
	1113	Santiam Valley Ranch	2,877	nr
SPECIES TOTAL			3,330	
Bluegill	5838	Columbia Catfish and Bass	432	43
	1113	Santiam Valley Ranch	3,323	nr
SPECIES TOTAL			3,755	
Bullhead Catfish	3739	Indian Springs Trout/Catfish	43	nr
	1113	Santiam Valley Ranch	84	nr
SPECIES TOTAL			127	
Channel Catfish	1113	Santiam Valley Ranch	1,886	nr
Crappie	1113	Santiam Valley Ranch	1,451	nr
Pumpkinseed	1113	Santiam Valley Ranch	495	nr
Gambusia	1113	Santiam Valley Ranch	15,830	nr
White Sturgeon	4126	Pelfrey's Sturgeon Hatchery	15,422	nr
	4856	Prairie Springs Trout	5	200
SPECIES TOTAL			15,427	

nr = not reported

Table 21. Hatchery Produced Fish and Eggs Provided for Education or Research in 2004

Date	Live Fish	Species	Hatchery	Purpose
1/14/04	4,600	CHS	McKenzie R.	EWEB - Walterville Screens Testing
2/25/04	125	CO	Salmon R.	Hatfield Marine Science Center Research
3/3/04	50	RB	Roaring R.	OSU Research
3/29/04	150	CO	Bonneville	Radio Tagging Practice - OSU Research
6/3/04	1,600	RB	Roaring R.	OSU Research
6/14/04	1,500	CHS	Marion Forks	OSU Research
7/13/04	250	RB	Roaring R.	OSU Research
8/4/04	7	RB	Roaring R.	OSU Research
8/6/04	100	BT	Wizard Falls	OSU Research
9/1/04	300	CHS	McKenzie R.	Stillwater Sciences - Trailbridge Res.
10/27/04	500	RB	Roaring R.	OSU Research

Total Fish 9,182

Date	Live Eggs	Species	Hatchery	Purpose
11/12/04	20,000	RB	Roaring R.	OSU Research
12/3/04	30,000	CHF	Elk River	NOAA Fisheries Research-Newport

Total Eggs 50,000

Date	Fish Carcasses	Species	Hatchery	Purpose
1/9/04	15	RB	Leaburg	Dissection Lab - McKenzie Sch. District
1/12/04	2	Adult CO	Cole M. Rivers	Dissection Lab - Richardson Elem. Central Point
1/13/04	10	Adult CO	Cole M. Rivers	Fisher Survey - USFS
1/29/04	100	RB	Fall River	Telemetry Workshop - AFS
1/29/04	20	CO	Sandy River	PSU - Research
2/3/04	15	Adult CO	Cole M. Rivers	Dissection Lab - Crater HS
2/5/04	40	Adult STS	Round Butte	Dissection Lab - Culver HS
2/9/04	6	Adult CO	Cole M. Rivers	Dissection Lab - N. Medford HS
2/17/04	25	Adult CHF	Bonneville	Dissection Lab - Central Cath. HS
2/22/04	2	Adult CHS	Cole M. Rivers	Dissection Lab - Marrilla ES
3/3/04	4	Adult CHS	Cole M. Rivers	Dissection Lab - S. Medford HS
3/23/04	2	Adult STS	Cole M. Rivers	Bear Creek WS Symposium
4/30/04	50	Adult STS	Cole M. Rivers	Dissection Lab - Klamath HS
4/30/04	20	Adult STS	Cole M. Rivers	Dissection Lab - N. MS - Grants Pass
5/10/04	6	Adult CO	Cole M. Rivers	Fish Prints - Free Fishing Day - BLM
5/14/04	100	CHF	Big Creek	Genetic Analysis - NOAA Fisheries
5/27/04	600	CHF	Bonneville	Sea Lion Scat Analysis - NOAA Fisheries
6/2/04	2	Adult CHS	Clackamas R.	Free Fishing Day Dissection - USFS
8/18/04	12	Adult CHS	McKenzie R.	Native Youth Class - Yurok Tribe
9/20/04	12	Adult CHF	Bonneville	Dissection - Oxbow Salmon Fest - Metro
9/30/04	2	Adult CHS	Cole M. Rivers	Dissection Lab - Eagle Rock ES
9/30/04	20	Adult CHF	Bonneville	Dissection Lab - Jackson MS
9/30/04	4	Adult CHF	Bonneville	Dissection - Oxbow Salmon Fest - Oregon Trout
10/18/04	50	RB	Leaburg	Dissection Lab - Springfield HS - ODFW
10/19/04	3	Adult STS	Clackamas R.	Dissection Lab - Candy Lane ES
10/19/04	1	Adult CHS	Cole M. Rivers	Dissection Lab - Salmon Watch - USFS
10/20/04	4	Adult CO	Salmon River	Drawing Models, Art Class - Neskowin School
10/27/04	10	Adult CO	Bonneville	Dissection Lab - Portland HS
11/15/04	14	RB	Leaburg	Dissection Lab - Monroe MS
11/16/04	24	Adult CHF	Bonneville	Dissection Lab - Grant HS

Total Fish 1,175

Date	Dead Eggs	Species	Hatchery	Purpose
2/11/04	64,000	STW	Alea River	Bait for coho research traps - EPA

Table 22. Stock Codes Used by ODFW Fish Propagation

01	ST. PAUL PONDS	32B	N FK NEHALEM AND TRIBS BROOD STOCK
01U	ST. PAUL PONDS - UNKNOWN BROOD YEAR	33	SILETZ R (SILETZ HATCHERY)
01W	ST. PAUL PONDS WILD	33W	SILETZ R - WILD
02	NECANICUM R AND TRIBS	34	TRASK R (TRASK HATCHERY)
03	RES. REDBANDS	34W	TRASK R (WILD)
04	MIAMI RIVER AND TRIBS	35	ELK R (ELK R HATCHERY)
05	FLORAS CREEK & NEW RIVER	36	SALMON R (SALMON R HT)
05U	STEP RELEASES - UNKNOWN BYR & STOCK	37	COOS RIVER
06	EUCHER CREEK AND TRIBS	37M	COOS RIVER MIXED
07	WINCHUCK RIVER AND TRIBS	38	SIUSLAW RIVER
08	HUNTER CREEK AND TRIBS	38C	SIUSLAW RIVER - COMBINED STOCKS
09	WHISKEY CREEK	38W	SIUSLAW RIVER-WILD STW
10	SCOGGINS CREEK, TUALATIN RIVER	39	BURNT HILL CREEK
11	SANDY RIVER STW/CO/CHS	40	MAIN NEHALEM & TRIBS.
11F	SANDY RIVER STW	41	ROUND BUTTE HATCHERY
11W	SANDY RIVER WILD STW/CO/CHS	42	MAINE
12	OXBOW	43	ALSEA R AND TRIBS (EX FALL CR)
13	BIG CREEK (BIG CR HAT) TULE OR STW	43B	ALSEA R & TRIBS (EX FALL CR) BROOD STOCK
13C	BIG CR/KK TULE CHF	43W	ALSEA R & TRIBS (EX FALL CR) WILD
13W	BIG CREEK/MARMOT CR TRAP TULE OR STW	44	COQUILLE R (BANDON HATCHERY)
14	TANNER CREEK - TULES OR COHO	44M	COQUILLE RIVER
14M	1494 & 1394 FROM BO MIXED @ STAYTON PD	45	WASHINGTON (URB'S)
15	KLASKANINE RIVER TULES OR COHO	46	BUTTE FALLS HATCHERY
16	EAGLE CR (CASCADE HATCHERY)	47	NESTUCCA R (CEDAR C.HAT)
17	PISTOL R AND TRIBS	47F	F1 STW NESTUCCA R (CEDAR C.HAT)
18	COW CR. (S. UMPQUA)	47M	NESTUCCA R (CC HAT) & SILETZ R (SS HAT)
19	CLACKAMAS R EARLY CHS (EAGLE CREEK COHO)	47W	NESTUCCA R (CEDAR CR HATCHERY) WILD
19W	MARMOT CR TRAP CHS	48	DIAMOND LAKE
20	CLACKAMAS R LATE (EAGLE CR-STW) OR CO	49	FALL R HATCHERY
20W	CLACKAMAS R LATE-COHO	50	HOOD RIVER
21	N SANTIAM RIVER	50W	HOOD R WILD STW/STS START 3-98 DIST-PROJ
21M	21 & 24 FOR CEDC, 19 & 21 FOR BPA PROJECT	51	KLAMATH HATCHERY
22	MID WILLAMETTE R (WI HATCHERY)	52	ROGUE RIVER-COLE RIVERS HATCHERY
22C	MID WILLAMETTE R (WI HATCHERY) COMBINED	52W	WILD STEELHEAD-ROGUE RIVER
23	MCKENZIE R (MCKENZIE HATCHERY)	53	OAK SPRINGS HATCHERY
23C	MCKENZIE R (MCKENZIE HATCHERY) COMBINED	53B	OAK SPRINGS HATCHERY - BROOD STOCK
24	S SANTIAM(ORIGIN: SKAMANIA WA)STS	53T	OAK SPRINGS TRIPLOIDS
24M	301-WA(SKAMANIA STK)STS/CHS/SO.SANTIAM	54	ROARING RIVER HATCHERY
24W	MARMOT CR TRAP STW	55	UMPQUA R (ROCK CREEK HATCHERY)
25	FALL CREEK RESERVOIR (CARSON)	56	WALLOWA RIVER
26	FALL CREEK RESERVOIR (WILLAMETTE)	56M	WALLOWA SUPPLEMENTAL - CAUGHT IN FALL 03
27	MIAMI R.	57	WILLAMETTE RIVER
28	WILLIAMSON RIVER	58	WIZARD FALLS HATCHERY
29	IMNAHA R AND TRIBS.	58B	WIZARD FALLS HATCHERY - BROOD STOCK
29C	IMNAHA RIVER NATIVE AND HATCHERY STOCK	59	LEABURG HATCHERY-LONG TOM STOCK
29W	IMNAHA RIVER NATIVE	60	USF&W (EXCEPT HAGERMAN)
29X	IMNAHA R AND TRIBS. (WILD & HATCHERY)	61	LOWER ROGUE RIVER
30	YAQUINA R	62	APPLEGATE RIVER
30W	YAQUINA RIVER (WILD)	62W	WILD STEELHEAD-APPLEGATE RIVER
31	FALL CREEK (ALSEA R)	63	EEL LAKE
31W	FALL CR TRAP (ALSEA R) WILD	63C	63 COMBINED WITH 88= BENSON STK
32	N FK NEHALEM AND TRIBS	64	DAVIS LAKE
		65	KLAMATH LAKE
		66	DESCHUTES RIVER
		66B	DESCHUTES RIVER - BROOD STOCK
		66M	DESCHUTES RIVER MIXED
		66W	DESCHUTES RIVER (WILD)

66Z	DESCHUTES RIVER (CAPTIVE BROOD STOCK)	110	LITTLE WHITE SALMON WA URB'S-BEGIN 92
67	PAULINA LAKES-WAS EAST LK	111	LEWIS RIVER (SPEELYAI HAT) EARLY COHO
68	WICKIUP RES.	112	PUGET SOUND X SILETZ (OREAQUA STOCK)
69	ODELL LAKE	113	SILTCOOS
70	CANADA	114	KALAMA FALLS-START 92-TULE OR EARLY COHO UPPER/LOWER
71	CALIFORNIA	115W	COLUMBIA RIVER WARMWATER FISH - WILD
72	WA TULES CRSN/COWLITZ OR CAPECOD RAINBOW	116	GRAY'S HARBOR, WA
72M	WA TULES CRSN/COWLITZ OR CAPECOD RAINBOW	117	ELOKOMIN HATCHERY, WA EARLY COHO
72T	CAPECOD RAINBOW TRIPLOIDS	118	GOLDENDALE (RAINBOW)
73	MONTANA	119	HACKLEMAN CR/FISH LAKE
74	WYOMING	119B	HACKLEMAN CR/FISH LAKE BROOD STOCK
75	CARSON WA-CHS	119W	HACKLEMAN CR/FISH LK-WILD BROOD STK
76	KILCHIS R (COAL CR)	120	IDAHO (LOST RIVER)
77	HAGERMAN IDAHO (URB'S)	121	WILSON RIVER STEELHEAD
78	PARSNIP RES.	121F	WILSON R STW (WILD, CAPTIVE BRED,F1 GEN)
79	CRESCENT LAKE	121W	WILSON RIVER STW (WILD)
80	UPPER GRANDE RONDE (LOOKINGGLASS)	122	MARKED-WILD STW TAKE/FARADAY TRAP CL HAT
80F	UPPER GRANDE RONDE (WILD, CAPTIVE, F1)	122W	UNMARKED-WILD STW-RETURNED TO CL/FARADAY
80W	UPPER GRANDE RONDE (CONVENTIONAL PRGRM)	123	HOSMER LAKE NATURAL TROUT & AS
80Z	UPPER GRANDE RONDE (CAPTIVE BROOD PRGRM)	124	BC (STW) 13'S COLL @CL FOR NEW BROODSTK
81	LOOKINGGLASS CREEK	125	COLUMBIA RIVER PINK SALMON
82	COLORADO	126	PLYMPTON CR-CHF ASTORIA HI-VO0104 WAS 15 START JUNE 1996
83	DETROIT RES.	127	CRANE PRARIE RAINBOW
84	LOBSTER CR (ROGUE)	127B	CRANE PRARIE BROOD RB
85	IDAHO	127F	CRANE PRAIRIE PROGENY OF RB BROOD STOCK
85B	RAPID R SURROGATE BROOD STOCK (8595) '96 EXPERIMENT	127W	CRANE PRAIRIE RB FOR WILD BROOD STOCK
85W	SPRING CHINOOK	130	SIMTUSTUS LK-NATURAL
86	UTAH	137	MILLICOMA RIVER-STARTING WITH 94 BROOD
87	IRRIGON HATCHERY	143	ALSEA RIVER WILD
88	TEN MILE LKS (EX EEL LK)	144	SOUTH FK COQUILLE-BEGINNING 92 BROOD
89	FOSTER RES.	145	SILETZ STK COHO (YAQUINA BAY) BEG 95 BRY
90	SUTTLE LAKE	146	YAQUINA SALMON RANCH (CHF) SILETZ STK
91	UMATILLA RIVER	146W	YAQUINA SALMON RANCH (CHF) SILETZ WILD
91W	UMATILLA RIVER WILD-FISH	150	MILL CR TRIB/UMPQUA R/CHF-BEG 10/96 STEP
92	GOLD LAKE	150C	RC 18'S MIXED WITH 150'S BY STEP VO2014
93	N TWIN LAKE	150W	MILL CR TRIB/UMPQUA R/CHF-STEP WILD
94	MANN LAKE	151	SMITH R (CHF/CO) STEP-VO2014 BEG 10/97
95	COLUMBIA R (UPR RIVER BRIGHTS)	151W	SMITH R (CHF/CO) STEP-VO2014 WILD
95M	COLUMBIA R (URB'S) - INCLUDES 45,91,110	152	N. TOUTLE RIVER (WASHINGTON)12/20/99
96	CHETCO R (JACK CR TRAP)	153	LOWER CROOKED RIVER
97	SNAKE RIVER		
98	COWLITZ R		
99	FISH HAWK LK (NEHALEM R)		
100	PAMELIA CT-ORIGIN:CHELAN WA 72'S		
101	FALL BROOD, WALLOWA HATCHERY STOCK		
101W	LOWER COLUMBIA WHITE STURGEON (WILD)		
102	WARM SPRINGS		
103	DESERT SPRINGS RAINBOW		
105	TAHKENITCH		
105W	TAHKENITCH (WILD-FISH)		
106C	SANDY ADULT SPRING CHINOOK		

153B LOWER CROOKED RIVER - BROOD STOCK
 153W LOWER CROOKED RIVER WILD
 154 UPPER CROOKED RIVER
 156 WILD RAINBOW FOR BREEDING
 EXPERIMENT
 157 TRIPLOIDS RAINBOW
 158W THREE CREEKS LAKE WILD
 171 EAGLE LK RB FROM CDF/KLAMATH
 HATCHERY
 175 RAINBOW FISH CREEK>UMPQUA R
 175B RAINBOW OUT OF FISH CREEK>UMPQUA
 TRIB
 195 COLUMBIA R (LWR RIVER BRIGHTS)
 200F LOSTINE CR (WILD, CAPTIVE BRED, F1
 GEN)
 200W LOSTINE CR (CONVENTIONAL PROGRAM)
 200Z LOSTINE CR (CAPTIVE BROODSTOCK
 PROGRAM)
 201 CATHERINE CR
 201F CATHERINE CR (WILD,CAPTIVE BRED,F1
 GEN)
 201W CATHERINE CR (CONVENTIONAL
 PROGRAM)
 201Z CATHERINE CR (CAPTIVE BROODSTOCK
 PROGRAM)
 301 WASHINGTON (SKAMANIA HAT STOCK)
 STW STS
 302 OMAK WA (LAHONTAN CT) BEGIN 96
 303 PRIEST RAPIDS (URB'S) BEG 96 BRY
 304 FORD WA 72'S (BT) BEGIN 98
 364 BROOK TROUT
 364B BROOK TROUT/FORD HATCHERY WA
 500 WARM WATER RELOCATION CHICO GAME
 FISH FM
 500W REDEAR SUNFISH
 501 UNKNOWN ORIGIN STW @ CLACKAMAS
 HATCHERY
 502 HOOD R (STRAYS KILLED FOR CWT)
 503 UNKNOWN ORIGIN STS @CLACKAMAS
 HATCHERY
 503W BELLERUD STOCK (NE OR BULL TROUT
 ONLY)
 504 UNKNOWN ORIGIN - COLUMBIA RIVER
 504W UNKNOWN ORIGIN WILD - COLUMBIA
 RIVER
 505 UNKNOWN HATCHERY STRAYS
 507 BIG CR HAT BY HOOD R WILD CROSSES
 508 LEAVENWORTH COHO
 509 CONSERVATION HATCHERY IMPROV.
 PROGRAM CO
 551 FISH CREEK>N UMPQUA RAINBOW
 551F FISH CREEK>N UMPQUA RAINBOW F1
 GEN.
 551W FISH CREEK>N UMPQUA RAINBOW WILD
 600 TROUT RELOCATION
 600W TROUT RELOCATION (WILD)