



OREGON DEPARTMENT OF FISH AND WILDLIFE

ANNUAL REPORT LOOKINGGLASS HATCHERY

October 1, 2011 through September 30, 2012



LOOKINGGLASS FISH HATCHERY ANNUAL REPORT FY2012

INTRODUCTION

Location

Lookingglass Fish Hatchery is located on Lookingglass Creek 2.2 miles upstream from its confluence with the Grande Ronde River near the small community of Palmer Junction. The Grande Ronde flows another 85 miles before entering the Snake River at Heller Bar. The Imnaha satellite facility is located at river mile 46 on the Imnaha River, a tributary to the Snake River and is used as a smolt acclimation and release site in the spring and for adult trapping in the summer.

OBJECTIVES

Program Goals

Lookingglass Fish Hatchery is part of the Lower Snake River Compensation Program (LSRCP) and has been in operation since 1982. LSRCP's long term mitigation goal for the hatchery is to return 5,720 adult Chinook to the Grande Ronde sub-basin for fish losses occurring as a result of the construction and operation of the four Lower Snake River Dams. Short term goals are recovery, delisting, and utilizing captive broodstock technology and conventional supplementation to prevent the extinction of three wild Chinook populations; the Upper Grande Ronde River stock, Catherine Creek stock, and Lostine River stock. Also, reintroduction of spring/summer Chinook into Lookingglass Creek using Catherine Creek stock is a goal of the program. In the Imnaha River system, the program mitigation goal is to return 3,210 hatchery adults to the area above Ice Harbor Dam. In addition, program goals include restoring and maintaining the natural spawning population, reestablishing sport and tribal fisheries, and minimizing the impacts of the program on resident stocks of fish.

CHINOOK

Trapping and Adult Returns

The adult trap on Lookingglass Creek was put into operation on March 1, 2012 to trap adult steelhead returning in the spring. Wild steelhead are enumerated and then released upstream of the weir to spawn naturally and hatchery origin steelhead are removed. A total of 318 unmarked steelhead were trapped and released above the weir. Forty two unmarked steelhead were re-captured and released above the weir and one kelt was released below the weir. One hatchery steelhead was trapped and euthanized.

The first spring Chinook (2) were trapped on May 22, 2012. A total of 1,215 spring Chinook were trapped consisting of 1,183 Lookingglass Creek stock, 24 Grande Ronde stock, and 8 Catherine Creek stock. The Grande Ronde stock fish were fish that swam into the Lookingglass trap and identified by their intact adipose fin and CWT mark. Catherine Creek stock fish were either brought from Catherine Creek (4) and put into the lower Lookingglass Creek fishery or were strays (4). Lookingglass Creek stock fish that were trapped consisted of 494 males, 626 females, and 63 jacks. Trapped fish were released above the weir in real time (929 plus 28 re-captures), retained for broodstock

purposes (172), or distributed to food banks (53 jacks and one male). The trap was in continuous operation until September 18, 2012.

The weir at the Imnaha Satellite Facility was installed on June 21, 2012 and in operation until September 18, 2012. A total of 2,020 fish were trapped consisting of 708 males, 1,166 females, and 146 jacks. There were 286 fish held for broodstock purposes consisting of 104 males, 117 females, and 65 jacks. Fish that were excess to broodstock needs were re-cycled through the fishery, distributed to charitable food banks, out planted, released above the weir, or taken to Wallowa Fish Hatchery to recover CWT for M & E purposes. A total of 175 adults were re-cycled through the fishery; 179 adults and jacks were distributed to food banks; 79 adults and 2 jacks distributed to the NPT; 84 adults and 7 jacks were out planted into Big Sheep Creek and 88 adults and 12 jacks out planted into Lick Creek, both tributaries to the Imnaha River. Also, 324 males, 386 females, and 31 jacks were released above the weir and 14 fish released below the weir. Hatchery fish transported to Wallowa Hatchery consisted of 10 jacks, 92 males, and 233 females. There were 7 trap mortalities.

Located on the Upper Grande Ronde River and Catherine Creek, weirs and traps are operated by the Confederated Tribes of the Umatilla Indian Reservation (CTUIR). A portion of returning adults trapped there are transported to Lookingglass and held for spawning. Lookingglass Hatchery received a total of 179 broodstock from the Upper Grande Ronde river facility consisting of 84 males, 85 females, and 10 jacks. In addition, there were 24 Grande Ronde fish that swam into the Lookingglass trap on Lookingglass Creek.

There were 89 broodstock received from the Catherine Creek weir and trap consisting of 45 males, 40 females, and 4 jacks.

Located on the Lostine River, a weir and trap are operated by the Nez Perce Tribe. A portion of returning adults trapped there are transported to Lookingglass and held for spawning. There were 133 Lostine River broodstock consisting of 70 males and 63 females brought to Lookingglass Hatchery.

Spawning and Egg Production

All conventional broodstock of the various stocks of fish were spawned at Lookingglass and all fertilized eggs incubated at Lookingglass. All Lookingglass, Grande Ronde and Imnaha stock females' eggs were incubated in Moist Air Incubation units. Catherine Creek and Lostine River stock females' eggs were incubated in traditional Heath style egg incubation stacks. Survival to the eyed egg stage was 87.3%. Fry from Catherine Creek, Grande Ronde River, Lostine River, and Imnaha will be reared at Lookingglass Hatchery. Lookingglass stock fry will be transferred to Irrigon Hatchery in the spring of 2013. The Lookingglass stock of fish will be reared at Irrigon until September and then returned to Lookingglass for final rearing until release in the spring of 2014. Final rearing at Lookingglass will take place in the adult holding ponds which have been modified to hold fish at 20-30 fish per pound.

Egg production from 2012 spawning efforts, number of females' spawned, percent eye up, green and eyed egg numbers, and fecundities for the various stocks is as follows:

There were 109 Imnaha stock females spawned yielding 489,088 green eggs resulting in 389,802 eyed eggs for an eye up of 79.7%. Average fecundity was 4,487 per female.

The eye up percent was lower than expected due to complications with one of the Moist Air Incubation units.

A total of 62 Lostine females were spawned yielding 270,210 green eggs resulting in 242,615 eyed eggs for an eye up of 89.8%. Average fecundity was 4,358 per female.

A total of 81 Lookingglass females were spawned yielding 297,475 green eggs resulting in 279,533 eyed eggs for an eye up of 94.0%. Average fecundity was 3,673 per female.

A total of 45 Catherine Creek females were spawned yielding 170,686 green eggs resulting in 148,514 eyed eggs for an eye up of 87.0%. Average fecundity was 3,793 per female.

A total of 74 Grande Ronde females were spawned yielding 267,394 green eggs resulting in 245,116 eyed eggs for an eye up of 91.7%. Average fecundity was 3,613 per female.

Total conventional egg take was 1,494,853 green eggs yielding 1,305,580 eyed eggs.

Fish Health Services recommended to not cull any eggs due to low ELISA values.

Captive Broodstock Chinook Program

A separate annual report covers the details for operation of this program. There were no BY 10 captive progeny reared at Lookingglass.

Miscellaneous

Fish marking by ad-clipping, Coded Wire Tag marking, or both was completed on the BY 2011 Imnaha, Lostine, Catherine Creek, and Upper Grande Ronde River stocks in August, 2012. A total of 136,111 fish received a CWT only, 740,756 were CWT and ad-clipped, and 489,806 were ad-clipped only. Lookingglass stock fish were marked at Irrigon Hatchery in June, 2011 and are included in the marking totals.

PIT-tagging was completed on the BY 2010 Imnaha, Lostine, Catherine Creek, Lookingglass, and Upper Grande Ronde River stocks in October, 2011. A total of 52,786 fish received PIT tags. By stock, the number of fish receiving PIT tags was: Catherine Creek-20,928, Grande Ronde-2,978, Imnaha-20,914, Lookingglass-1,997, and Lostine River-5,969.

CONSTRUCTION AND MAINTENANCE

MAINTENANCE PROJECTS ACCOMPLISHED BY ODFW PERSONNEL

- Dug up domestic water line and repaired broken pipe.
- Jack hammered through concrete floor in hatchery building and repaired water line that had frozen and burst.
- Repaired various snow removal equipment

- Continued a re-cycling program re-cycling computer paper, catalogs, plastic bottles, cardboard, aluminum, and tin cans
- Took several dump truck loads of surplus metal to re-cycling center
- Cleaned rock out of intake area
- Serviced UV water treatment system cleaning drum filter and replacing UV lamps and drum filter panels
- Worked with Union County Sheriff's Department and people who have been ordered by the court to perform community service work in various miscellaneous labor projects including pressure washing, cutting, splitting, and stacking firewood
- Imnaha Facility: Built lean to onto side of generator/equipment building.

MAINTENANCE PROJECTS ACCOMPLISHED BY CONTRACTORS

Alpine Alarm – Repair and maintenance of residential and hatchery fire alarm systems

Alpine Chimney Sweeps-Inspection and residential chimney cleaning

Barnes Diesel Power – Used boom truck to set new power generator in place at Imnaha Facility and assisted with connections and hook up to generator. Perform annual DOT inspections on dump truck and fish liberation truck.

Coffey Refrigeration-Perform maintenance service on water chiller units.

Cooke & Emele – Maintenance and repair on residence water furnace

Cummins NW-Repairs to Onan power generator

Delta Environmental – Domestic water quality analysis and DEQ environmental water sample analysis

Eastern Oregon Nursery-Conduct backflow tests on hatchery residences

EC Power Systems-Repairs to Onan and Kohler power generators

Five Rivers Construction-Construct canopy over hatchery and visitor center entry way door.

Gem State Communications-Install radio phone system at Imnaha Satellite Facility.

High Mountain Mechanical-Repair and replace heating units and motors in hatchery building

Jensorter Inc.-Maintenance and repair of egg picking machine

Ladco Electric – General electrical maintenance throughout the facility, connection of electrical components to new Imnaha power generator, and work on TW-2 well electronics.

Legacy Dodge- Repairs to Dodge pickup truck, replace brakes

Les Schwab-Miscellaneous tire and vehicle brake repair

ODFW-Information Services Division installed new computer server.

Partney/Mitrac Construction – Remove rock and gravel from Lookingglass Creek in front of water intake

Pendleton Grain Growers – Located leak in domestic water line, excavated for repair.

Rahn Sanitary Service-Pumped out septic system at Imnaha Satellite Facility.

R & C Fire Extinguisher – Annual maintenance and recharge fire extinguishers for LGH and ISF

Roger's Asphalt-Concrete

Steele's Septic Service-Pump hatchery septic system

Wallowa County Road Department-Plow snow to and within Imnaha Satellite Facility compound

Water Management Technology-Repair dissolved oxygen meters

Wheeler Communication – Repair handheld Motorola Radios, supply new batteries for radios

Zee Medical- First aid supplies

MAJOR EXPENSES

Travel and transportation	\$ 4,807.00
Repair & maintenance of buildings and grounds	\$ 4,592.00
Fish food	\$ 62,924.00
Repairs and maintenance to equipment	\$ 33,671.00
Program Related Supplies/Other Services	\$ 55,432.00
Communication services	\$ 17,827.00
Fuel and Utilities*	\$ 1,809.00
Training	\$ 5,264.00
Uniform items, PPE	\$ 2,345.00
Chemicals	\$ 8,877.00
Equipment Rental	\$ 1,191.00
Office Supplies	\$ 2,022.00
Total	\$ 200,761.00

*Utilities does not include an estimated \$80,000 paid directly by LSRCP

Adult Returns to Hatchery

Chinook

Lookingglass Creek Stock 81 BY12

Lookingglass Fish Hatchery	
Where trapped:	Lookingglass Creek Weir
Dates trapped:	May 22 – September 10, 2012
Number of adults trapped:	481 males, 609 females, 59 jacks
Date of peak returns:	June 15, 2012
Number of adults released to spawn naturally:	398 males, 534 females, 2 jacks
Number of adults to hatchery for broodstock:	83 males, 75 females, 24 jacks
Number given away:	0 males, 0 females, 33 jacks
Mortality of all adult returns	<i>at trap:</i> 0 males, 0 females
	<i>at hatchery:</i> 7 males, 3 females, 1 jack

Chinook - Conventional Broodstock Program

Grande Ronde River Stock 80 BY12

Lookingglass Fish Hatchery	
Where trapped:	Lookingglass Creek Weir
Dates trapped:	June 12 – August 27, 2012
Number of adults trapped:	14 males, 7 females, 3 jacks
Date of peak trapping:	June 15, 2012
Number of adults released to spawn naturally:	0 males, 0 females, 0 jacks
Number of adults to hatchery for broodstock:	14 males, 7 females, 3 jack
Number given away:	0 males, 0 females, 0 jacks
Mortality of all adults	<i>at trap:</i> 0 males, 0 females, 0 jacks

Chinook - Conventional Broodstock Program

Catherine Creek Stock 201 BY12

Lookingglass Fish Hatchery	
Where trapped:	Lookingglass Creek Weir
Dates trapped:	June 7 – September 10, 2012
Number of adults trapped:	1 males, 5 females, 5 jacks
Date of peak trapping:	August 27, 2012
Number of adults released to spawn naturally:	0 males, 2 females, 1 jacks
Number of adults to hatchery for broodstock:	1 males, 3 females, 4 jack
Number given away:	0 males, 0 females, 0 jacks
Mortality of all adults	<i>at trap:</i> 0 males, 0 females, 0 jacks

**Summer Steelhead
Lookingglass Creek Stock 81 BY12**

Lookingglass Fish Hatchery	
Where trapped:	Lookingglass Creek Weir
Dates trapped:	March 12 – June 5, 2012
Number of adults trapped:	96 males, 180 females, 0 jacks
Date of peak returns:	May 9, 2012
Number of adults released to spawn naturally:	95 males, 180 females, 0 jacks
Number of adults to hatchery for broodstock:	0 males, 0 female, 0 jacks
Number given away	0 males, 0 female, 0 jacks
Mortality of all adult returns	0 males, 0 females
	<i>at trap:</i>
	<i>at hatchery:</i>
	1 males, 0 female, 0 jacks

Adults Trapped Off Hatchery and Transported to Hatchery

**Chinook
Imnaha Stock 29 BY12**

Lookingglass Fish Hatchery	
Where trapped:	Imnaha Satellite Facility
Date weir installed:	June 22, 2012
Dates trapped:	June 25 – September 11, 2012
Number of adults trapped:	702 males, 1106 females, 144 jacks
Date of peak trapping:	July 23, 2012
Number of adults released to spawn naturally:	
	<i>Imnaha River</i>
	<i>Big Sheep Creek</i>
	<i>Lick Creek</i>
Number of adults to hatchery for broodstock:	223 males, 402 females, 78 jacks
Number given away	60 males, 104 females, 10 jacks
Mortality of all adults	2 males, 4 females, 2 jacks
	<i>at trap:</i>
	<i>at hatchery:</i>
	14 males, 9 females, 8 jacks

Adults Trapped Off Hatchery and Transported to Hatchery

Chinook - Conventional Broodstock Program Grande Ronde River Stock 80 BY12

Lookingglass Fish Hatchery	
Where trapped:	Upper Grande Ronde Weir
Dates trapped:	May 30 – June 22, 2012
Number of adults trapped:	316 males, 322 females, 36 jacks
Date of peak trapping:	June 5, 2012
Number of adults released to spawn naturally:	238 males, 239 females, 20 jacks
Number of adults to hatchery for broodstock:	78 males, 82 females, 8 jacks
Number given away	0 males, 0 females, 8 jacks
Mortality of all adults	<i>at trap:</i> 0 male, 1 females, 0 jacks
	<i>at hatchery:</i> 15 males, 8 females, 2 jacks

Chinook - Conventional Broodstock Program Catherine Creek Stock 201 BY12

Lookingglass Fish Hatchery	
Where trapped:	Catherine Creek Weir
Dates trapped:	May 25 – July 30, 2012
Number of adults trapped:	459 males, 470 females, 52 jacks
Date of peak trapping:	June 5, 2012
Number of adults released to spawn naturally:	
<i>Catherine Creek</i>	315 males, 317 females, 24 jacks
<i>Indian Creek</i>	50 males, 51 females, 5 jacks
<i>Lookingglass Creek</i>	53 males, 54 females, 9 jacks
Number of adults to hatchery for broodstock:	40 males, 46 females, 4 jacks
Mortality of all adults	<i>at trap:</i> 1 males, 2 females, 0 jacks
	<i>at hatchery:</i> 15 males, 2 females, 0 jacks

Chinook - Conventional Broodstock Program Lostine River Stock 200 BY12

Lookingglass Fish Hatchery – no information	
Where trapped:	Lostine River Weir
Dates trapped:	June 18 – September 17 , 2012
Date of peak trapping:	July 23, 2012
Number of adults trapped:	170 males, 149 females, 4 jacks
Number of adults to hatchery for broodstock	67 males, 75 females, 0 jacks
Number of adults released to spawn naturally:	0 males, 0 females, 0 jacks
Mortality of all adults	<i>at trap:</i> 0 males, 0 females, 0 jacks
	<i>at hatchery:</i> 4 males, 11 females, 0 jacks

SPAWNING RECORD**Chinook
Imnaha Stock 29 BY12**

Lookingglass Fish Hatchery

Date Spawned	Number of Eggs Taken	Females Spawned	Males Spawned
8/14/12	4,693	1	5
8/21/12	62,559	14	16
8/28/12	193,844	43	27
9/04/12	202,117	45	33
9/11/12	19,386	4	4
9/13/12	6,599	2	2

Imnaha stock Chinook eggs and milt were combined according to matrices, depending on available mature broodstock. Milt from hatchery jacks was pooled, 6 jacks equivalent to one male.

Total number of females spawned: 109
 Total number of males spawned: 98
 Total number of green eggs: 489,198
 Total number of eyed eggs: 389,802
 Number of eggs retained for rearing: 389,802
 Date of last spawning: 9/13/12

**Chinook
Lookingglass Stock 81 BY12**

Lookingglass Fish Hatchery

Date Spawned	Number of Eggs Taken	Females Spawned	Males Spawned
8/23/12	34,532	8	7
8/30/12	157,839	43	38
9/06/12	87,317	25	22
9/13/12	14,334	4	4
9/17/12	3,453	1	1

Eggs and milt were combined by matrices, according to available mature broodstock.

Total number of females spawned: 81
 Total number of males spawned: 72
 Total number of green eggs: 297,475
 Total number of eyed eggs: 279,533
 Number of eggs retained for rearing: 279,533
 Date of last spawning: 9/17/12

Spawning Record

Chinook - Conventional Broodstock Program Upper Grande Ronde Stock 80 BY12

Lookingglass Fish Hatchery

Date Spawned	Number of Eggs Taken	Females Spawned	Males Spawned
8/23/12	49,079	11	10
8/30/12	183,148	52	48
9/06/12	32,053	10	9
9/11/12	3,114	1	1

Eggs and milt were combined by matrices, according to available mature broodstock.

Total number of females spawned:	74
Total number of males spawned:	68
Total number of green eggs:	267,394
Total number of eyed eggs:	245,116
Total number of eggs shipped:	296*
Number of eggs retained for rearing:	244,820
Date of last spawning:	9/11/12

**Eyed eggs shipped to Bonneville Hatchery for SNAP program*

Chinook - Conventional Broodstock Program Catherine Creek Stock 201 BY12

Lookingglass Fish Hatchery

Date Spawned	Number of Eggs Taken	Females Spawned	Males Spawned
8/16/12	94,628	24	20
8/23/12	44,415	12	10
8/30/12	21,176	6	5
9/06/12	10,467	3	3

Egg and milt were combined by matrices, according to available mature broodstock.

Total number of females spawned:	45
Total number of males spawned:	38
Total number of green eggs:	170,686
Total number of eyed eggs:	148,514
Number of eggs retained for rearing:	148,514
Date of last spawning:	9/06/12

Spawning Record

Chinook - Conventional Broodstock Program Lostine Stock 200 BY12

Lookingglass Fish Hatchery

Date Spawned	Number of Eggs Taken	Females Spawned	Males Spawned
8/14/12	9,382	2	2
8/21/12	26,491	6	6
8/29/12	157,762	35	35
9/05/12	63,498	15	16
9/11/12	9,156	3	3
9/13/12	3,921	1	1

Lostine stock Chinook were spawned by matrices, depending on available mature broodstock.

Total number of females spawned:	62
Total number of males spawned:	63
Total number of green eggs:	270,210
Total number of eyed eggs:	242,615
Number of eggs retained for rearing:	242,615
Date of last spawning:	9/13/12

Rearing to Smolt Stage Only

Chinook

Imnaha Stock 29 BY10

Number of smolts produced:	469,810
Weight of smolts produced (lbs.):	21,161.4
Percent mortality to stocking:	1.59%
Average number/pound of smolts produced:	22.20
Conversion rate:	1.02 at Lookingglass

333,392 smolts (15,322.4 pounds) were transferred from Lookingglass Fish Hatchery to Imnaha Satellite Facility 3/22/12 for acclimation. Volitional release began on 3/30/2012 and the remaining fish were forced out on 4/13/12. 136,933 smolts (6,432.4 pounds) were direct released into the Imnaha River on 4/30/12.

Rearing to Smolt Stage Only

Chinook

Lookingglass Stock 81 BY10

Number of smolts produced:	228,565
Weight of smolts produced (lbs.):	6,432.4
Percent mortality to stocking:	1.29%
Average number/pound of smolts produced:	23.01
Conversion rate:	1.31 at Lookingglass

Smolts volitionally released directly into Lookingglass Creek beginning 3/30/12. Smolts remaining were forced out on 4/13/12.

Chinook - Conventional Broodstock Program

Upper Grande Ronde River Stock 80 BY10

Number of smolts produced:	285,737
Weight of smolts produced (lbs.):	13,715.4
Percent mortality to stocking:	3.03%
Average number/pound of smolts produced:	20.83
Conversion rate:	0.98 at Lookingglass

Smolts were transferred to Grande Ronde Acclimation Facility in two groups. The first group of 146,804 smolts (6,397.0 pounds) were transferred on 3/19/12 for volitional release beginning 3/21/12. The second group of 72,211 smolts (3,520.8 pounds) were transferred on 4/5/12 for release beginning 4/9/12. A third group of 66,956 smolts (3,327.8 pounds) were direct-released into the Grand Ronde River. Grande Ronde Acclimation Facility is operated by the CTUIR. Facility operations are BPA funded. Fish feed is provided by the LSRCP.

Chinook - Conventional Broodstock Program

Catherine Creek Stock 201 BY10

Number of smolts produced:	161,374
Weight of smolts produced (lbs.):	8,341.2
Percent mortality to stocking:	2.15%
Average number/pound of smolts produced:	19.35
Conversion rate:	1.06 at Lookingglass

106,940 smolts (4,898.9 pounds) were transferred from Lookingglass Fish Hatchery to Catherine Creek Acclimation Facility on 3/20/12 for volitional release beginning 23/22/12. 54,492 smolts (2,594.9 pounds) were direct-released into Catherine Creek on 4/16/12. Catherine Creek Acclimation Facility is operated by the CTUIR. Facility operations are BPA funded. Fish feed is provided by the LSRCP.

Rearing to Smolt Stage Only

**Chinook - Conventional Programs
Lostine River Stock 200 BY10**

Number of smolts produced:	267,351
Weight of smolts produced (lbs.):	12,264.6
Percent mortality to stocking:	2.09%
Average number/pound of smolts produced:	21.80
Conversion rate:	1.04 at Lookingglass

Smolts were transferred from Lookingglass Hatchery to Lostine Acclimation Facility in two groups: 134,546 smolts (5,852.6 pounds) on 3/12/12 for release on 3/22/12, and 133,011 smolts (6,130.6 pounds) on 4/3/12 for release on 4/13/12. Lostine Acclimation Pond is operated by the Nez Perce Tribe. Facility operations are BPA funded. Fish feed is provided by the LSRCP.

Food Fed and Weight Gain**Chinook
Imnaha Stock 29 BY10**

Lookingglass Fish Hatchery	
Total pounds of food fed	6,621.1
Conversion rate	1.17
Total weight gain (lbs.) - all sizes produced	5,658.3

**Chinook
Imnaha Stock 29 BY11**

Lookingglass Fish Hatchery	
Total pounds of food fed	12,485.2
Conversion rate	0.91
Total weight gain (lbs.) - all sizes produced	13,744.9

**Chinook
Lookingglass Stock 81 BY10**

Lookingglass Fish Hatchery	
Total pounds of food fed	2,739.2
Conversion rate	1.13
Total weight gain (lbs.) - all sizes produced	2,419.3

**Chinook
Lookingglass Stock 81 BY11**

Lookingglass Fish Hatchery	
Total pounds of food fed	4,195.4
Conversion rate	0.75
Total weight gain (lbs.) - all sizes produced	5,526.0

Food Fed and Weight Gain

**Chinook – Conventional Program
Upper Grande Ronde River Stock 80 BY10**

Lookingglass Fish Hatchery	
Total pounds of food fed	3,807.5
Conversion rate	1.19
Total weight gain (lbs.) - all sizes produced	3,211.1

**Chinook – Conventional Program
Upper Grande Ronde River Stock 80 BY11**

Lookingglass Fish Hatchery	
Total pounds of food fed	4,132.2
Conversion rate	0.92
Total weight gain (lbs.) - all sizes produced	4,481.9

**Chinook – Captive Broodstock Program (F₁'s)
Upper Grande Ronde River Stock 80F BY11**

Lookingglass Fish Hatchery	
Total pounds of food fed	4,374.9
Conversion rate	0.99
Total weight gain (lbs.) - all sizes produced	4,420.9

**Chinook - Conventional Broodstock Program
Catherine Creek Stock 201 BY10**

Lookingglass Fish Hatchery	
Total pounds of food fed	2,549.6
Conversion rate	1.34
Total weight gain (lbs.) - all sizes produced	1,906.5

Food Fed and Weight Gain

**Chinook - Conventional Broodstock Program
Catherine Creek Stock 201 BY11**

Lookingglass Fish Hatchery	
Total pounds of food fed	4,224.4
Conversion rate	1.00
Total weight gain (lbs.) - all sizes produced	4,220.5

**Chinook - Conventional and Captive Broodstock Program
Lostine River Stock 200 BY10**

Lookingglass Fish Hatchery	
Total pounds of food fed	3,496.9
Conversion rate	1.12
Total weight gain (lbs.) - all sizes produced	3,131.3

**Chinook - Conventional Broodstock Program
Lostine River Stock 200 BY11**

Lookingglass Fish Hatchery	
Total pounds of food fed	7,655.1
Conversion rate	0.95
Total weight gain (lbs.) - all sizes produced	8,053.4

**On Hand at Lookingglass Fish Hatchery
September 30, 2011**

Fish on Hand – BY11

Species	Stock	Number
Spring Chinook	Imnaha	391,848
Spring Chinook	Grande Ronde	291,681
Spring Chinook	Lookingglass	280,192
Spring Chinook	Lostine River	265,790
Spring Chinook	Catherine Creek	135,148

FY2011 Stocking

Total number of distribution trips:	23*
Number of fry stocked:	0
Weight of fry stocked:	0 lbs
Number of fingerlings stocked:	0
Weight of fingerlings stocked:	0 lbs
Number of smolts stocked:	1,412,837
Weight of smolts stocked:	65,415.2 lbs
Date, location, number and weight at each stocking:	See Attached

**16 distribution trips were made to acclimation facilities associated with Lookingglass Fish Hatchery, and 3 trips were made to transfer fish to Irrigon Hatchery*

**Lookingglass Fish Hatchery and Associated Facility Stocking Records
October 1, 2011 through September 30, 2012**

HATCHERY	SPECIES	STOCK	TYPE	DATE	FROM/TO	NO/LB	MORTS	NUMBER STOCKED	POUNDS STOCKED
CATH.CR. ACC	SPRING CHINOOK	201 10	LIBERATION	03-22-12	CATHERINE CR AT ACC PD - CTUIR	18.60	0	106882	5,746.34
GRND RND ACC	SPRING CHINOOK	080 10	LIBERATION	04-09-12	GRANDE RONDE AT ACC PD -CTUIR	20.50	0	72192	3,521.56
GRND RND ACC	SPRING CHINOOK	080 10	LIBERATION	03-21-12	GRANDE RONDE AT ACC PD -CTUIR	21.35	0	146589	6,866.00
IMNAHA PD	SPRING CHINOOK	029 10	LIBERATION	03-30-12	IMNAHA R	22.60	0	133357	5,900.75
IMNAHA PD	SPRING CHINOOK	029 10	LIBERATION	04-06-12	IMNAHA R	22.60	0	199520	8,828.32
LOSTINE ACC	SPRING CHINOOK	200 10	LIBERATION	03-22-12	LOSTINE AT ACC POND - NPT	22.79	0	134419	5,898.16
LOSTINE ACC	SPRING CHINOOK	200 10	LIBERATION	04-13-12	LOSTINE AT ACC POND - NPT	20.88	0	132932	6,366.48
LOOKINGGLASS	SPRING CHINOOK	029 10	LIBERATION	03-30-12	IMNAHA R	22.48	0	69668	3,099.11
LOOKINGGLASS	SPRING CHINOOK	029 10	LIBERATION	03-30-12	IMNAHA R	20.18	0	67265	3,333.25
LOOKINGGLASS	SPRING CHINOOK	080 10	LIBERATION	04-16-12	GRANDE RONDE R-2	20.12	5000	66956	3,327.83
LOOKINGGLASS	SPRING CHINOOK	081 10	LIBERATION	03-30-12	LOOKINGGLASS CR	23.30	0	9140	392.27
LOOKINGGLASS	SPRING CHINOOK	081 10	LIBERATION	04-13-12	LOOKINGGLASS CR	23.00	0	219425	9,540.22
LOOKINGGLASS	SPRING CHINOOK	201 10	LIBERATION	04-16-12	CATHERINE CR	21.00	0	54492	2,594.86
								1412837	65415.15
LOOKINGGLASS	SPRING CHINOOK	081 11	TRANSFER	04-25-12	IRRIGON HATCHERY	217.00	0	93656	431.59
LOOKINGGLASS	SPRING CHINOOK	081 11	TRANSFER	04-26-12	IRRIGON HATCHERY	229.00	0	95367	416.45
LOOKINGGLASS	SPRING CHINOOK	081 11	TRANSFER	04-27-12	IRRIGON HATCHERY	235.00	0	92594	394.02
LOOKINGGLASS	SPRING CHINOOK	029 10	ACCLIMATE	03-22-12	IMNAHA PD	22.81	0	28782	1,261.81
LOOKINGGLASS	SPRING CHINOOK	029 10	ACCLIMATE	03-22-12	IMNAHA PD	21.48	0	64315	2,994.18
LOOKINGGLASS	SPRING CHINOOK	029 10	ACCLIMATE	03-22-12	IMNAHA PD	21.83	0	6549	300.00
LOOKINGGLASS	SPRING CHINOOK	029 10	ACCLIMATE	03-22-12	IMNAHA PD	22.95	0	73460	3,200.87
LOOKINGGLASS	SPRING CHINOOK	029 10	ACCLIMATE	03-22-12	IMNAHA PD	19.85	0	65529	3,301.21
LOOKINGGLASS	SPRING CHINOOK	029 10	ACCLIMATE	03-22-12	IMNAHA PD	22.81	0	38777	1,700.00
LOOKINGGLASS	SPRING CHINOOK	029 10	ACCLIMATE	03-22-12	IMNAHA PD	21.83	0	55980	2,564.36
LOOKINGGLASS	SPRING CHINOOK	080 10	ACCLIMATE	03-19-12	GRND RND ACC	22.82	0	76376	3,346.89
LOOKINGGLASS	SPRING CHINOOK	080 10	ACCLIMATE	03-19-12	GRND RND ACC	23.09	0	70428	3,050.15
LOOKINGGLASS	SPRING CHINOOK	080 10	ACCLIMATE	04-05-12	GRND RND ACC	20.51	0	72211	3,520.77
LOOKINGGLASS	SPRING CHINOOK	200 10	ACCLIMATE	03-12-12	LOSTINE ACC	24.42	0	62410	2,555.69
LOOKINGGLASS	SPRING CHINOOK	200 10	ACCLIMATE	03-12-12	LOSTINE ACC	21.88	0	72136	3,296.89
LOOKINGGLASS	SPRING CHINOOK	200 10	ACCLIMATE	04-03-12	LOSTINE ACC	21.01	0	71023	3,380.44
LOOKINGGLASS	SPRING CHINOOK	200 10	ACCLIMATE	04-03-12	LOSTINE ACC	22.54	0	61988	2,750.13
LOOKINGGLASS	SPRING CHINOOK	201 10	ACCLIMATE	03-20-12	CATH.CR. ACC	21.80	0	54149	2,483.90
LOOKINGGLASS	SPRING CHINOOK	201 10	ACCLIMATE	03-20-12	CATH.CR. ACC	21.86	0	52791	2,414.96

