



**OREGON DEPARTMENT OF FISH AND WILDLIFE**

# **ANNUAL REPORT LOOKINGGLASS HATCHERY**

**October 1, 2013 through September 30, 2014**



## **LOOKINGGLASS FISH HATCHERY ANNUAL REPORT FY2014**

### **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, 2014 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 179 unmarked steelhead were trapped and released above the weir. Nineteen unmarked steelhead were re-captured and released above the weir and no kelts were released below the weir. Zero hatchery steelhead were passed above the weir. Two Ad hatchery steelhead was trapped and euthanized.

The first spring Chinook (1) was trapped on May 16, 2014. A total of 782 Spring Chinook were trapped consisting of 762 Lookingglass Creek stock, and 20 Grande Ronde River stock. The Grande Ronde River stock fish were fish that swam into the Lookingglass trap and identified by their intact adipose fin and CWT mark. Grande Ronde River fish collected were 29; twenty adults, seven Jacks, and two Broodstock. Six hundred and thirty four fish were released above the weir in real time (600 adults and 34 unmarked jacks), plus 21 recaptures which consisted of 21 adults. Lookingglass stock was retained for brood stock purposes (171). There were 27 jacks recycled into the fishery. There

were 30 jacks that were killed/buried after fish were no longer suitable for human consumption. The trap was in continuous operation until September 05, 2014. There were no trap mortalities.

The weir at the Imnaha Satellite Facility was installed on June 22, 2014 but the trap was in operation from June 23, 2014 until September 13, 2014. A total of 3,318 fish were trapped consisting of 772 males, 764 females, 1,782 jacks and 4 re-capture jacks. There were 304 fish held for broodstock purposes consisting of 139 males, 150 females, and 15 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 0 adults and 33 Jacks were re-cycled through the fishery; 97 adults and 1,014 jacks were distributed to food bank. One hundred fifty six fish, 45 males, 28 females and 83 jacks were out-planted into Big Sheep Creek a tributary to the Imnaha River. One hundred ninety fish, 54 males, 19 females, and 117 jacks were out-planted into Lick Creek, a tributary to the Imnaha River. Also, there were 1,047 fish passed above the weir; 490 males, 507 females, and 50 unmarked jacks. Four Hundred fifty two jacks were killed and placed below the weir for stream enrichment, and one adult ad female was killed due to tumors and was given to Pathology for testing. There were 719 trap mortality, 12 jack, two females and five male 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 147 brood stock from the Upper Grande Ronde river facility consisting of 66 males, 70 females, and 11 jacks. In addition, there were 29 Grande Ronde fish that swam into the Lookingglass trap on Lookingglass Creek and 22 were kept for brood stock; 20 adults and two unmarked jacks and seven food bank fish.

There were 106 brood stock received from the Catherine Creek weir and trap consisting of 53 males, 49 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 Hatchery and held for spawning. There were 165 Lostine River broodstock consisting of 85 males and 74 females and 6 (one was a jenny), jacks brought to Lookingglass Hatchery.

### Spawning and Egg Production

All conventional broodstock of the various stocks of fish were spawned at Lookingglass Hatchery and all fertilized eggs incubated at Lookingglass. All Lookingglass Creek, Grande Ronde, Imnaha River, Catherine Creek and Lostine River stock females' eggs were incubated in traditional Heath style egg incubation stacks. Survival to the eyed egg stage was 82.7% which includes egg culling. Fry from Catherine Creek, Grande Ronde River, Lostine River, Lookingglass, and Imnaha will be reared at Lookingglass Hatchery.

Egg production from 2014 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 140 Imnaha stock females spawned yielding 621,831 green eggs resulting in 575,951 eyed eggs for an eye up of 94.2%. Three females were culled at 12,407 eggs. Average fecundity was 4,442 per female.

A total of 74 Lostine females were spawned yielding 324,484 green eggs resulting in 312,682 eyed eggs for an eye up of 93.9 %. Two females were culled at 12,407 eggs. Average fecundity was 4,254 per female.

A total of 82 Lookingglass females were spawned yielding 324,484 green eggs resulting in eyed eggs 312,682, for an eye up of 96.4%. Average fecundity was 3,957 per female.

A total of 44 Catherine Creek females were spawned yielding 188,435 green eggs resulting in 170,309 eyed eggs for an eye up of 92.6%. One female was culled at 4,259 eggs. Average fecundity was 4,283 per female.

A total of 68 Grande Ronde females were spawned yielding 257,706 green eggs resulting in 240,230 eyed eggs for an eye up of 94.3%. One female was culled at 2,944 eggs. Average fecundity was 3,790 per female.

Total conventional egg take was 1,707,225 green eggs yielding 1,412,299 eyed eggs

Fish Health Services recommended culling eggs from seven females. Three Lostine River females, one Catherine Creek female, one Grande Ronde River female, and two Imnaha River females were culled.

#### Captive Broodstock Chinook Program/ SNAP Program

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

#### Miscellaneous

NOAA requested 1,500 Imnaha River eggs for a study they are conducting.

Fish marking by ad-clipping, Coded Wire Tag marking, or both was completed on the BY 2013 Imnaha, Lostine, Catherine Creek, and Upper Grande Ronde River stocks in August, 2013. A total of 116,416 fish (Grande Rondes), received a CWT only, 715,194 were CWT and ad-clipped and 305,007 were ad-clipped only.

PIT-tagging was completed on the BY 2013 Imnaha, Lostine, Catherine Creek, Lookingglass, and Upper Grande Ronde River stocks in October, 2013. A total of 48,223 fish received PIT tags. By stock, the number of fish receiving PIT tags was: Catherine Creek-20,971, Grande Ronde-2,002, Imnaha-20,957, Lookingglass-1,992, and Lostine River-2,301.

## CONSTRUCTION AND MAINTENANCE

### MAINTENANCE PROJECTS ACCOMPLISHED BY ODFW PERSONNEL

- Repaired various snow removal equipment
- 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, firewood, brush and litter removal.
- Removed surplus fish feeders, acquired by Clearwater Hatchery in Idaho
- Added 43 incubation stacks to hatch house.
- Renovated kitchen in hatchery residence #1.
- Added woodshed/ covered porch to residence #5
- Completed safety fencing around perimeter of abatement pond.

### MAINTENANCE PROJECTS ACCOMPLISHED BY CONTRACTORS

**Sheep Creek Chimney Sweeps**-Inspection and residential chimney cleaning, dryer vents, and furnace ducts

**Barnes Diesel Power** – Perform annual DOT inspections on dump truck and fish Liberation truck.

**Northern Management**- Started repairs on crowder and electrical system at the Imnaha satellite facility, ongoing at end of contract period.

**Treat 'em Right Refrigeration** - Performed maintenance service on water chiller units and Moist Air Incubator chiller units.

**Analytical Labs/ Table Rock Labs** – Domestic water quality analysis and DEQ environmental water sample analysis

**Eastern Oregon Nursery**-Conduct backflow tests on hatchery residences

**Ladco Electric** – General electrical maintenance throughout the facility, work on TW-2 well electronics and wiring for alarm system.

**Les Schwab**-Miscellaneous tire and battery replacements.

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

**DOYON Government Group Construction**- Replaced domestic waterline to hatchery building.

**R & C Fire Extinguisher** – Annual maintenance and recharge fire extinguishers for LGH, IM, and Residences.

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

**Wheeler Communication** – Repair handheld Motorola Radios, supply new batteries for radios, and serviced Imnaha radio telephone system.

**Zee Medical**- First aid supplies.

**Nortech**-Completed Spill Prevention Control and Containment (SPCC) inspection for USFWS.

**Purswell Pump**- Removed TW2 well clutch assembly and electric motor for rebuild.

**MAJOR EXPENSES**

Travel and transportation	\$ 2,993.00
Repair & maintenance of buildings and grounds	\$ 10,823.74
Fish food	\$ 90,497.00
Repairs and maintenance to equipment	\$ 35,000.00
Program Related Supplies/Other Services	\$ 71,545.00
Communication services	\$ 18,762.00
Fuel and Utilities*	\$ 2,083.00
Training	\$ 650.00
Uniform items, PPE	\$ 2,726.00
Chemicals	\$ 10,451.00
Equipment Rental	\$ 2,503.00
Office Supplies	\$ 4,219.00
Total	\$ 252,252.74

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

## Adult Returns to Hatchery

### Chinook

#### Lookingglass Creek Stock 81 BY14

Lookingglass Fish Hatchery	
Where trapped:	Lookingglass Creek Weir
Dates trapped:	May 16 – September 5, 2014
Number of adults trapped:	349 males, 414 females, 239 jacks
Date of peak returns:	May 26, 2014
Number of adults released to spawn naturally:	260 males, 360 females, 59 jacks
Number of adults to hatchery for brood stock:	79 males, 84 females, 8 jacks
Number given away:	0 males, 0 females, 147 jacks
Mortality of all adult returns	<i>at trap:</i> 0 males, 0 females
	<i>at hatchery:</i> 22 males, 5 females, 4 jacks

### Chinook - Conventional Broodstock Program

#### Grande Ronde River Stock 80 BY14

Lookingglass Fish Hatchery	
Where trapped:	Lookingglass Creek Weir
Dates trapped:	May 29 – August 29, 2014
Number of adults trapped:	12 males, 8 females, 9 jacks
Date of peak trapping:	August 25, 2014
Number of adults released to spawn naturally:	0 males, 0 females, 0 jacks
Number of adults to hatchery for broodstock:	12 males, 8 females, 6 jacks
Number given away:	0 males, 0 females, 3 jacks
Mortality of all adults	<i>at trap:</i> 9 males, 5 females, 1 jack

### Summer Steelhead

#### Lookingglass Creek Stock 81 BY14

Lookingglass Fish Hatchery	
Where trapped:	Lookingglass Creek Weir
Dates trapped:	March 1 – June 22, 2014
Number of adults trapped:	97 males, 85 females, 0 jacks
Date of peak returns:	May 2, 2014
Number of adults released to spawn naturally:	97 males, 85 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	<i>at trap:</i> 0 males, 0 females
	<i>at hatchery:</i> 1 male, 0 female, 0 jacks

## Adults Trapped Off Hatchery and Transported to Hatchery

### Chinook Imnaha Stock 29 BY14

Lookingglass Fish Hatchery	
Where trapped:	Imnaha Satellite Facility
Date weir installed:	June 23, 2014
Dates trapped:	June 23 – September 10, 2014
Number of adults trapped:	772 males, 764 females, 1,782 jacks
Date of peak trapping:	July 28, 2014
Number of adults released to spawn naturally:	
<i>Imnaha River</i>	490 males, 507 females, 89 jacks
<i>Big Sheep Creek</i>	45 males, 28 females, 0 jacks
<i>Lick Creek</i>	54 males, 19 females, 0 jacks
Number of adults to hatchery for broodstock:	139 males, 150 females, 15 jacks
Number given away	0 males, 0 females, 125 jacks
Mortality of all adults	<i>at trap:</i> 5 males, 2 females, 12 jacks
	<i>at hatchery:</i> 38 males, 5 females, 1 jack

### Chinook - Conventional Broodstock Program Grande Ronde River Stock 80 BY14

Lookingglass Fish Hatchery	
Where trapped:	Upper Grande Ronde Weir
Dates trapped:	May 27 – July 1, 2014
Number of adults trapped:	357 Ad adults, 242 W adults, 21 Ad jacks, 7 W jacks
Date of peak trapping:	June 1, 2014
Number of adults released to spawn naturally:	247 Ad adults, 186 Wild adults, 3 Ad jacks, 3 Wild jacks
Number of adults to hatchery for broodstock:	66 males, 70 females, 10 jacks
Number given away	0 males, 0 females, 10 Ad jacks
Mortality of all adults	<i>at trap:</i> 2 Ad adults, 1 W adult, 3 Ad, jacks
	<i>at hatchery:</i> 0 males, 0 females, 0 jack

**Adults Trapped Off Hatchery and Transported to Hatchery**

**Chinook - Conventional Broodstock Program  
Catherine Creek Stock 201 BY14**

Lookingglass Fish Hatchery	
Where trapped:	Catherine Creek Weir
Dates trapped:	May 27 – July 31, 2014
Number of adults trapped:	465 Ad Adults, 547 Wild adults, 88 Ad Jacks, 34 Wild Jacks,
Date of peak trapping:	June 4, 2014
Number of adults released to spawn naturally: <i>Catherine Creek</i>	420 Ad Adults, 489 Wild Adults, 19 Ad Jacks, 32 Wild Jacks
Number of adults to hatchery for brood stock:	45 Ad Adults, 57 Wild adults, 2 Ad Jacks, 2 Wild Jacks
Number given away	67 Ad Jacks
Mortality of all adults	<i>at trap:</i> 0 males, 0 females, 0 jacks <i>at hatchery:</i> 1Ad adult, 0 jacks

**Chinook - Conventional Broodstock Program  
Lostine River Stock 200 BY14**

Lookingglass Fish Hatchery	
Where trapped:	Lostine River Weir
Dates trapped:	June 18 – September 04, 2014
Date of peak trapping:	July 04, 2014
Number of adults trapped:	466 males, 516 females, 732 jacks
Number of adults to hatchery for brood stock	80 males, 74 females, 6 jacks
Number of adults released to spawn naturally:	338 males, 404 females, 71 jacks
Mortality of all adults	<i>at trap:</i> 0 males, 0 females, 0 jacks <i>at hatchery:</i> 28 males, 10 females, 1 jack

**SPAWNING RECORD****Chinook  
Imnaha Stock 29 BY14**

## Lookingglass Fish Hatchery

Date Spawned	Number of Eggs Taken	Females Spawned	Males Spawned
8/19/14	54,008	11	11
8/26/14	120,581	27	27
9/02/14	361,595	83	78 M, 16 J
9/09/14	85647	19	14 M, 5 J

*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:	140
Total number of males spawned:	125
Total number of green eggs:	621,831
Total number of eyed eggs:	586,293
Number of eggs transferred:	1,500*
Number of eggs retained for rearing:	584,793
Date of last spawning:	9/10/14

*\*Transferred to NOAA Manchester Science Center for jacking study.*

**Chinook  
Lookingglass Stock 81 BY14**

## Lookingglass Fish Hatchery

Date Spawned	Number of Eggs Taken	Females Spawned	Males Spawned
8/14/14	4,162	1	2
8/20/14	27,514	7	6
8/28/14	85,847	22	20 M, 2 J
9/03/14	164,780	41	42 M
9/10/14	42,181	11	9 M, 5 J = (4 J = 2 M)

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

Total number of females spawned:	82
Total number of males spawned:	70
Total number of green eggs:	324,484
Total number of eyed eggs:	312,682
Total number of eggs culled due to high BKD	0
Number of eggs retained for rearing:	312,682
Date of last spawning:	9/10/14

## Spawning Record

### Chinook Upper Grande Ronde Stock 80 BY14

Lookingglass Fish Hatchery

Date Spawned	Number of Eggs Taken	Females Spawned	Males Spawned
8/21/14	61,723	16	16
8/28/14	103,655	25	22 M, 3 J
9/04/14	78,895	23	30, 2 J
9/10/14	13,433	4	8

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

Total number of females spawned:	68
Total number of males spawned:	71
Total number of green eggs:	257,706
Total number of eyed eggs:	243,174
Total number of eggs shipped:	0
Number of eggs retained for rearing:	243,174
Date of last spawning:	9/10/14

### Chinook Catherine Creek Stock 201 BY14

Lookingglass Fish Hatchery

Date Spawned	Number of Eggs Taken	Females Spawned	Males Spawned
8/21/14	42,824	10	10
8/28/14	73,447	17	17
9/04/14	51,301	12	21 M, 2 J
9/10/14	13,660	3	6 M
9/15/14	7,203	2	2 M

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

Total number of females spawned:	44
Total number of males spawned:	51
Total number of green eggs:	188,435
Total number of eyed eggs:	144,516
Number of eggs retained for rearing:	144,516
Date of last spawning:	9/15/14

## Spawning Record

### Chinook Lostine Stock 200 BY14

Lookingglass Fish Hatchery

Date Spawned	Number of Eggs Taken	Females Spawned	Males Spawned
8/20/14	28,464	7	7
8/26/14	80,558	19	20
9/02/14	173,832	41	36 – recycled 5 M
9/09/14	31,915	7	7

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

Total number of females spawned:	74
Total number of males spawned:	50
Total number of green eggs:	314,769
Total number of eyed eggs:	295,673
Number of eggs retained for rearing:	295,673
Date of last spawning:	9/09/14

## Rearing to Smolt Stage Only

### Chinook Imnaha Stock 29 BY12

Number of smolts produced:	346,702
Weight of smolts produced (lbs.):	15,700
Percent mortality to stocking:	2.49%
Average number/pound of smolts produced:	22.1
Conversion rate:	1.07 at Lookingglass

*230,541 smolts (9,610 pounds) were transferred from Lookingglass Fish Hatchery to Imnaha Satellite Facility 3/21/14 for acclimation. Volitional release began on 4/01/14 and the remaining fish were forced out on 4/05/14. 116,307 smolts (5,277 pounds) were direct released into the Imnaha River on 4/03/14.*

### Rearing to Smolt Stage Only

**Chinook**  
**Lookingglass Stock 81 BY12**

Number of smolts produced:	251,780
Weight of smolts produced (lbs.):	10,579
Percent mortality to stocking:	0.54%
Average number/pound of smolts produced:	23.8
Conversion rate:	1.30 at Lookingglass

*Smolts volitionally released directly into Lookingglass Creek beginning 4/01/14. Smolts remaining were forced out on 4/12/14.*

**Chinook**  
**Upper Grande Ronde River Stock 80 BY12**

Number of smolts produced:	241,169
Weight of smolts produced (lbs.):	10,676
Percent mortality to stocking:	1.84%
Average number/pound of smolts produced:	22.6
Conversion rate:	1.00 at Lookingglass

*Smolts were transferred to Grande Ronde Acclimation Facility in two groups. The first group of 121,633 smolts (5,328 pounds) were transferred on 3/20/14 for volitional release beginning 3/22/14. The second group of 119,582 smolts (5,560 pounds) were transferred on 4/4/14 for release beginning 4/6/14. Grande Ronde Acclimation Facility is operated by the CTUIR. Facility operations are BPA funded. Fish feed is provided by the LSRCP.*

**Chinook**  
**Catherine Creek Stock 201 BY12**

Number of smolts produced:	138,370
Weight of smolts produced (lbs.):	6,069
Percent mortality to stocking:	3.79%
Average number/pound of smolts produced:	22.8
Conversion rate:	1.01 at Lookingglass

*138,526 smolts (6,271 pounds) were transferred from Lookingglass Fish Hatchery to Catherine Creek Acclimation Facility on 3/19/14 for volitional release beginning 3/21/14. 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**
**Lostine River Stock 200 BY12**

Number of smolts produced:	233,170
Weight of smolts produced (lbs.):	9,959
Percent mortality to stocking:	3.14%
Average number/pound of smolts produced:	23.41
Conversion rate:	1.14 at Lookingglass

*Smolts were transferred from Lookingglass Hatchery to Lostine Acclimation Facility in two groups: 116,132 smolts (4,420 pounds) on 3/12/14 for release on 3/12/14, and 117,173 smolts (4,946 pounds) on 4/01/14 for release on 4/01/14. 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 BY12**

Lookingglass Fish Hatchery	
Total pounds of food fed	5,273
Conversion rate	1.56
Total weight gain (lbs.) - all sizes produced	3,373

**Chinook  
Imnaha Stock 29 BY13**

Lookingglass Fish Hatchery	
Total pounds of food fed	9,068
Conversion rate	1.00
Total weight gain (lbs.) - all sizes produced	9,074

**Chinook  
Lookingglass Stock 81 BY12**

Lookingglass Fish Hatchery	
Total pounds of food fed	3,713
Conversion rate	1.21
Total weight gain (lbs.) - all sizes produced	3,068

**Chinook  
Lookingglass Stock 81 BY13**

Lookingglass Fish Hatchery	
Total pounds of food fed	5,093
Conversion rate	0.95
Total weight gain (lbs.) - all sizes produced	5,343

### Food Fed and Weight Gain

**Chinook – Conventional Program  
Upper Grande Ronde River Stock 80 BY12**

Lookingglass Fish Hatchery	
Total pounds of food fed	3,125
Conversion rate	1.15
Total weight gain (lbs.) - all sizes produced	2,724

**Chinook – Conventional Program  
Upper Grande Ronde River Stock 80 BY13**

Lookingglass Fish Hatchery	
Total pounds of food fed	6,272
Conversion rate	0.96
Total weight gain (lbs.) - all sizes produced	6,513

**Chinook - Conventional Broodstock Program  
Catherine Creek Stock 201 BY12**

Lookingglass Fish Hatchery	
Total pounds of food fed	1,542
Conversion rate	1.04
Total weight gain (lbs.) - all sizes produced	1,481

**Chinook - Conventional Broodstock Program  
Catherine Creek Stock 201 BY13**

Lookingglass Fish Hatchery	
Total pounds of food fed	4,246
Conversion rate	1.08
Total weight gain (lbs.) - all sizes produced	3,916

### Food Fed and Weight Gain

**Chinook - Conventional Broodstock Program  
Lostine River Stock 200 BY12**

Lookingglass Fish Hatchery	
Total pounds of food fed	2,586
Conversion rate	1.92
Total weight gain (lbs.) - all sizes produced	1,346

**Chinook - Conventional Broodstock Program  
Lostine River Stock 200 BY13**

Lookingglass Fish Hatchery	
Total pounds of food fed	6,801
Conversion rate	0.92
Total weight gain (lbs.) - all sizes produced	7,382

**On Hand at Lookingglass Fish Hatchery  
September 30, 2014**

**Fish on Hand – BY13**

Species	Stock	Number
Spring Chinook	Imnaha	333,164
Spring Chinook	Grande Ronde	225,397
Spring Chinook	Lookingglass	177,494
Spring Chinook	Lostine River	250,730
Spring Chinook	Catherine Creek	147,320

**FY2014 Stocking**

Total number of distribution trips:	18*
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:	1,211,191
Weight of smolts stocked:	52,982 lbs
Date, location, number and weight at each stocking:	See Attached

*\*18 distribution trips were made to acclimation facilities associated with Lookingglass Fish Hatchery.*

**Lookingglass Fish Hatchery and Associated Facility Stocking Records**  
**October 1, 2013 through September 30, 2014**

HATCHERY	SPECIES	STOCK	TYPE	DATE	FROM/TO	NO/LB	MORTS	NUMBER STOCKED	POUNDS STOCKED
GRND RND ACC	SPRING CHINOOK	080 12	LIBERATION	03-22-14	GRANDE RONDE AT ACC PD -CTUIR	23.20	0	121,612	5,242
GRND RND ACC	SPRING CHINOOK	080 12	LIBERATION	04-06-14	GRANDE RONDE AT ACC PD -CTUIR	22.00	0	119,557	5,434
LOOKINGGLASS	SPRING CHINOOK	080 12	ACCLIMATE	03-20-14	GRND RND ACC	22.74	0	63,369	2,787
LOOKINGGLASS	SPRING CHINOOK	080 12	ACCLIMATE	03-20-14	GRND RND ACC	22.93	0	58,264	2,541
LOOKINGGLASS	SPRING CHINOOK	080 12	ACCLIMATE	04-04-14	GRND RND ACC	21.60	0	59,675	2,763
LOOKINGGLASS	SPRING CHINOOK	080 12	ACCLIMATE	04-04-14	GRND RND ACC	21.42	0	59,907	2,797
IMNAHA PD	SPRING CHINOOK	029 12	LIBERATION	04-01-14	IMNAHA R	22.00	0	230,395	10,473
LOOKINGGLASS	SPRING CHINOOK	029 12	ACCLIMATE	03-21-14	IMNAHA PD	23.63	0	58,080	2,458
LOOKINGGLASS	SPRING CHINOOK	029 12	ACCLIMATE	03-21-14	IMNAHA PD	23.66	0	56,166	2,374
LOOKINGGLASS	SPRING CHINOOK	029 12	ACCLIMATE	03-21-14	IMNAHA PD	23.79	0	58,149	2,444
LOOKINGGLASS	SPRING CHINOOK	029 12	ACCLIMATE	03-21-14	IMNAHA PD	24.91	0	58,146	2,334
LOOKINGGLASS	SPRING CHINOOK	029 12	LIBERATION	04-03-14	IMNAHA R	22.22	0	58,137	2,616
LOOKINGGLASS	SPRING CHINOOK	029 12	LIBERATION	04-03-14	IMNAHA R	22.28	0	58,170	2,611
LOOKINGGLASS	SPRING CHINOOK	081 12	LIBERATION	04-01-14	LOOKINGGLASS CR	23.80	0	251,780	10,579
LOSTINE ACC	SPRING CHINOOK	200 12	LIBERATION	03-12-14	LOSTINE AT ACC POND - NPT	24.78	0	116,132	4,687
LOSTINE ACC	SPRING CHINOOK	200 12	LIBERATION	04-01-14	LOSTINE AT ACC POND - NPT	22.20	0	117,038	5,272
LOOKINGGLASS	SPRING CHINOOK	200 12	ACCLIMATE	03-12-14	LOSTINE ACC	25.94	0	14,659	565
LOOKINGGLASS	SPRING CHINOOK	200 12	ACCLIMATE	03-12-14	LOSTINE ACC	26.62	0	28,750	1,080
LOOKINGGLASS	SPRING CHINOOK	200 12	ACCLIMATE	03-12-14	LOSTINE ACC	25.94	0	43,977	1,695
LOOKINGGLASS	SPRING CHINOOK	200 12	ACCLIMATE	03-12-14	LOSTINE ACC	26.62	0	28,746	1,080
LOOKINGGLASS	SPRING CHINOOK	200 12	ACCLIMATE	04-01-14	LOSTINE ACC	23.00	0	58,836	2,558
LOOKINGGLASS	SPRING CHINOOK	200 12	ACCLIMATE	04-01-14	LOSTINE ACC	24.43	0	58,337	2,388
LOOKINGGLASS	SPRING CHINOOK	201 12	ACCLIMATE	03-19-14	CATH.CR. ACC	20.77	0	46,377	2,233
LOOKINGGLASS	SPRING CHINOOK	201 12	ACCLIMATE	03-19-14	CATH.CR. ACC	22.86	0	23,279	1,018
LOOKINGGLASS	SPRING CHINOOK	201 12	ACCLIMATE	03-19-14	CATH.CR. ACC	22.86	0	23,278	1,018
LOOKINGGLASS	SPRING CHINOOK	201 12	ACCLIMATE	03-19-14	CATH.CR. ACC	22.78	0	45,592	2,001
CATH.CR. ACC	SPRING CHINOOK	201 12	LIBERATION	03-21-14	CATHERINE CR AT ACC PD - CTUIR	22.80	0	138,370	6,069