



OREGON DEPARTMENT OF FISH AND WILDLIFE

ANNUAL REPORT LOOKINGGLASS HATCHERY

October 1, 2014 through September 30, 2015



LOOKINGGLASS FISH HATCHERY ANNUAL REPORT FY2015

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, 2015 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 290 unmarked steelhead were trapped and released above the weir. 31 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. 15 Ad hatchery steelhead was trapped and euthanized.

The first spring Chinook (1) was trapped on April 20, 2015. A total of 1,067 Spring Chinook were trapped consisting of 1,043 Lookingglass Creek stock, and 24 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 24; 13 adults, 11 Jacks, of which 13 adults and 3 jack were kept for Broodstock. 773 fish were released above the weir in real time (738 adults and 35 unmarked jacks), plus 4 recaptures which consisted of 3 adults and 1jack. Lookingglass stock was retained for brood stock purposes (184). There were 51 jacks

recycled into the fishery. There were 4 jacks that were killed/buried after fish were no longer suitable for human consumption. The trap was in continuous operation until September 18, 2015. There was 1 trap mortality (1 AD male).

The weir at the Imnaha Satellite Facility was installed on May 18, 2015 and the trap was in operation until September 11, 2015. A total of 2,201 fish were trapped consisting of 936 males, 827 females, 438 jacks and 60 re-capture adults and 23 re-capture jacks. There were 306 fish held for Broodstock purposes consisting of 148 males, 145 females, and 13 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 118 adults and 53 Jacks were re-cycled through the fishery; 129 adults and 171 jacks were distributed to food bank. 382 adult fish, 45 males, 28 females and 83 jacks were out-planted into Big Sheep Creek a tributary to the Imnaha River. 152 jacks were killed and out-planted into Lick Creek, a tributary to the Imnaha River for stream enrichment. Also, there were 681 fish passed above the weir; 316 males, 317 females, and 48 unmarked jacks. There were 4 trap mortality, 1 jack, 3 females.

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 186 brood stock from the Upper Grande Ronde river facility consisting of 82 males, 96 females, and 8 jacks. In addition, there were 24 Grande Ronde fish that swam into the Lookingglass trap on Lookingglass Creek and 16 were kept for brood stock; 13 adults and 3 unmarked CWT jacks and 8 food bank fish.

There were 110 brood stock received from the Catherine Creek weir and trap consisting of 51 males, 55 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 177 Lostine River brood stock consisting of 83 males and 85 females and 9 jacks brought to Lookingglass Hatchery.

Spawning and Egg Production

All conventional brood stock 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 90.8% 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 2015 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 135 Imnaha stock females spawned yielding 615,672 green eggs resulting in 567,322 eyed eggs for an eye up of 93.3%. 2 females were culled at 7,284 eggs. Average fecundity was 4,561 per female. 29,914 surplus eggs were out planted into Lick Creek a tributary of the Imnaha River.

A total of 72 Lostine females were spawned yielding 318,550 green eggs resulting in 278,521 eyed eggs for an eye up of 88.5 %. 1 female was culled at 3,433 eggs. Average fecundity was 4,424 per female.

A total of 75 Lookingglass females were spawned yielding 262,782 green eggs resulting in 245,745 eyed eggs, for an eye up of 94.4%. 1 female was culled at 2,183 eggs. Average fecundity was 3,504 per female.

A total of 53 Catherine Creek females were spawned yielding 233,109 green eggs resulting in 207,199 eyed eggs for an eye up of 88.9%. Average fecundity was 4,398 per female. 34,092 surplus eggs were out planted into Catherine Creek by CTUIR.

A total of 85 Grande Ronde females were spawned yielding 358,688 green eggs resulting in 321,634 eyed eggs for an eye up of 89.7%. Average fecundity was 4,220 per female. 31,569 surplus eggs were out planted into the Upper Grande Ronde River by CTUIR.

Total conventional egg take was 1,784,801 green eggs yielding 1,620,421 eyed eggs

Fish Health Services recommended culling eggs from 4 females. 1 Lostine River female, 1 Lookingglass 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

Approximately 100 Chinook eggs and an aquarium with a chiller unit were given to Greenwood Elementary School of La Grande for an educational program.

Fish marking by ad-clipping, Coded Wire Tag marking, or both was completed on the BY 2014 Imnaha, Lostine, Catherine Creek, and Upper Grande Ronde River stocks in August, 2015. A total of 119,843 fish (Grande Ronde's), received a CWT only, 861,080 were CWT and ad-clipped and 515,832 were ad-clipped only.

PIT-tagging was completed on the BY 2014 Imnaha, Lostine, Catherine Creek, Lookingglass, and Upper Grande Ronde River stocks in October, 2015. A total of 51,299 fish received PIT tags. By stock, the number of fish receiving PIT tags was: Catherine Creek-20,947, Grande Ronde-1,997, Imnaha-20,953, Lookingglass-4,999, and Lostine River-2,403.

CONSTRUCTION AND MAINTENANCE

MAINTENANCE PROJECTS ACCOMPLISHED BY ODFW PERSONNEL

- Serviced UV water treatment system cleaning drum filter and replacing UV lamps and drum filter panels.
- Plumbed well water into UV head tank for better temperature mixing.
- Added alarm floats to all thirty Canadian troughs.
- 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.
- Renovated kitchen in hatchery residence #3.
- Painted exterior of all three older hatchery residences.
- Replaced all domestic waterlines in the hatch house.
- Replaced flooring in hatchery visitors center restrooms.
- Added a reserve spray bar pump to the rotary drum filter.
- Replaced deteriorating fiberglass electrical junction boxes with concrete boxes and water tight steel lids.
- Rebuilt spawn tower door with stainless steel components.
- Replaced wooden barrier weir at Lookingglass intake.
- Added rock exclusion screens to intake to keep large cobble out of fore bay.
- Replaced both power winches on the Imnaha spawn tower.
- Upgraded intake alarm system and intake camera with help of Irrigon FOS, Roy Skendzel.
- Replaced the aging grip strut on raceway catwalks with new.
- Installed an underwater viewing window on a brood holding tank for visitors.
- Replaced gear coupler on intake traveling water screen.

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.

Mcmillen LLC. – Constructed new weir at the Imnaha facility, ongoing at end of contract period. Resurfaced sidewalks and added cement floors to shop building at Imnaha.

Treat 'em Right Refrigeration - Performed maintenance service on water chiller units.

Table Rock Labs – Domestic water quality analysis and DEQ environmental water sample analysis.

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

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.

Simplex Grinnell- Installed fire suppression systems at Lookingglass and Imnaha bunkhouses.

Zee Medical- First aid supplies.

Purswell Pump- Removed TW2 well clutch assembly and gearbox. Dropped well motor and spliced shaft.

Dale Dodge Fencing- Installed chain link fencing around Lookingglass trap area.

LJH Construction- Resurfaced wheelchair ramp at Lookingglass to bring into ADA compliance.

Imbler High School- Shop class milled and cut new wooden dam boards for entire facility.

MAJOR EXPENSES

Travel and transportation	\$ 1,027.00
Repair & maintenance of buildings and grounds	\$ 18,654.00
Fish food	\$ 80,454.00
Repairs and maintenance to equipment	\$ 8,526.00
Program Related Supplies/Other Services	\$ 94,060.00
Communication services	\$ 18,228.00
Fuel and Utilities*	\$ 700.00
Training	\$ 1,521.00
Uniform items, PPE	\$ 1,321.00
Chemicals	\$ 14,470.00
Equipment Rental	\$ 1,550.00
Office Supplies	\$ 3,758.00
Total	\$ 244,269.00

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

Adult Returns to Hatchery

Chinook Lookingglass Creek Stock 81 BY15

Lookingglass Fish Hatchery	
Where trapped:	Lookingglass Creek Weir
Dates trapped:	April 20 – September 2, 2014
Number of adults trapped:	377 males, 529 females, 130 jacks
Date of peak returns:	June 1, 2015
Number of adults released to spawn naturally:	288 males, 446 females, 84 jacks
Number of adults to hatchery for brood stock:	83 males, 77 females, 17 jacks
Number given away:	0 males, 0 females, 26 jacks
Mortality of all adult returns	<i>at trap:</i> 1 males, 0 females
	<i>at hatchery:</i> 6 males, 6 females, 3 jacks

Chinook - Conventional Broodstock Program Grande Ronde River Stock 80 BY15

Lookingglass Fish Hatchery	
Where trapped:	Lookingglass Creek Weir
Dates trapped:	May 8 – September 9, 2015
Number of adults trapped:	5 males, 8 females, 11 jacks
Date of peak trapping:	June 12, 2015
Number of adults released to spawn naturally:	0 males, 0 females, 0 jacks
Number of adults to hatchery for broodstock:	5 males, 8 females, 3 jacks
Number given away:	0 males, 0 females, 8 jacks
Mortality of all adults	<i>at trap:</i> 0 males, 0 females, 0 jack

Summer Steelhead Lookingglass Creek Stock 81W BY15

Lookingglass Fish Hatchery	
Where trapped:	Lookingglass Creek Weir
Dates trapped:	March 4 – June 10, 2015
Number of adults trapped:	110 males, 195 females, 0 jacks
Date of peak returns:	March 30, 2015
Number of adults released to spawn naturally:	98 males, 189 females, 0 jacks
Number of adults to hatchery for brood stock:	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> 0 males, 0 female, 0 jacks

Adults Trapped Off Hatchery and Transported to Hatchery

**Chinook
Imnaha Stock 29 BY15**

Lookingglass Fish Hatchery	
Where trapped:	Imnaha Satellite Facility
Dates trapped:	June 4 – September 11, 2015
Number of adults trapped:	895 males, 810 females, 410 jacks
Date of peak trapping:	July 6, 2015
Number of adults released to spawn naturally:	
<i>Imnaha River</i>	367 males, 358 females, 61 jacks
<i>Big Sheep Creek</i>	223 males, 156 females, 0 jacks
Number of adults recycled to fishery:	75 males, 87 females, 34 jacks
Number of adults used for stream enrichment:	0 males, 0 females, 151 jacks
Number of adults to hatchery for broodstock:	147 males, 149 females, 12 jacks
Number given away	123 males, 89 females, 170 jacks
Mortality of all adults	<i>at trap:</i> 1 male, 3 females, 0 jacks
	<i>at hatchery:</i> 18 males, 4 females, 2 jack

**Chinook - Conventional Broodstock Program
Grande Ronde River Stock 80 BY15**

Lookingglass Fish Hatchery	
Where trapped:	Upper Grande Ronde Weir
Dates trapped:	May 11 – June, 2015
Number of adults trapped:	765 AD, 200 Wild, 14 Ad jacks, 1 wild jack
Date of peak trapping:	May 21, 2015
Number of adults released to spawn naturally:	635 AD, 151 Wild, 7 Ad jacks
Number of adults to hatchery for broodstock:	18 Wild males, 64 Ad males, 31 Wild females, 65 Ad females, 1 Wild Jack
	7 Ad Jacks
Number given away	0 males, 0 females, 8 Ad jacks
Mortality of all adults	<i>at trap:</i> 6 Ad adults, 5 W adult, 1 jacks
	<i>at hatchery:</i> 4 males, 13 females, 1 jack

Adults Trapped Off Hatchery and Transported to Hatchery

**Chinook - Conventional Broodstock Program
Catherine Creek Stock 201 BY15**

Lookingglass Fish Hatchery	
Where trapped:	Catherine Creek Weir
Dates trapped:	May 15 – June 1, 2015
Number of adults trapped:	392 Ad Adults, 288 Wild adults, 48 Ad Jacks, 17 Wild Jacks,
Date of peak trapping:	June 7, 2015
Number of adults released to spawn naturally: <i>Catherine Creek</i>	231 Ad Adults, 234 Wild Adults, 13 Ad Jacks, 14 Wild Jacks
Number of adults to hatchery for brood stock:	51 Males, 55 Females, 4 Jacks
Number given away	0 males, 0 females, 0 jacks
Mortality of all adults	<i>at trap:</i> 1 males, 2 females, 0 jacks
	<i>at hatchery:</i> 3 males, 3 females, 0 jacks

**Chinook - Conventional Broodstock Program
Lostine River Stock 200 BY15**

Lookingglass Fish Hatchery	
Where trapped:	Lostine River Weir
Dates trapped:	June 6 – September 13, 2015
Date of peak trapping:	July 07, 2015
Number of adults trapped:	457 males, 514 females, 57 jacks
Number of adults to hatchery for brood stock:	83 males, 85 females, 9 jacks
Number of adults released to spawn naturally:	233 males, 250 females, 22 jacks
Number given away	0 males, 0 females, 0 jacks
Mortality of all adults	<i>at trap:</i> 0 males, 0 females, 0 jacks
	<i>at hatchery:</i> 5 males, 18 females, 0 jack

SPAWNING RECORD**Chinook
Imnaha Stock 29 BY15**

Lookingglass Fish Hatchery

Date Spawned	Number of Eggs Taken	Females Spawned	Males Spawned
8/25/15	119,134	24	24, 0 killed
9/01/15	211,386	46	46, 1 killed
9/08/15	265,545	61	60 M, 52 killed
9/15/15	19,606	4	8 M, 56 killed

Imnaha stock Chinook eggs and milt were combined according to matrices, depending on available mature broodstock.

Total number of females spawned:	135
Surplus females back to Imnaha River	14
Total number of males spawned:	132
Surplus males back to Imnaha River	6
Total number of green eggs:	615,671
Total number of eyed eggs:	574,606
Total number of eggs culled due to high BKD:	7,284
Number of eggs retained for rearing:	567,322
Date of last spawning:	9/15/15

**Chinook
Lookingglass Stock 81 BY15**

Lookingglass Fish Hatchery

Date Spawned	Number of Eggs Taken	Females Spawned	Males Spawned
8/19/15	8,645	3	3, 0 killed
8/26/15	53,165	15	15, 2 killed
9/02/15	127,840	33	31 M 2 J, 6 M 2 J
9/09/15	73,132	24	29 M 3J, 62M 3J

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

Total number of females spawned:	75
Total number of males spawned:	78
Total number of green eggs:	262,782
Total number of eyed eggs:	247,928
Total number of eggs culled due to high BKD:	2,183
Number of eggs retained for rearing:	245,745
Date of last spawning:	9/09/15

Spawning Record

Chinook Upper Grande Ronde Stock 80 BY15

Lookingglass Fish Hatchery

Date Spawned	Number of Eggs Taken	Females Spawned	Males Spawned
8/20/15	20,525	4	5 M, 4 killed
8/27/15	148,347	35	33M 1J, 14M 1J
9/03/15	149,911	35	37M 3J, 36 M 3J
9/10/15	36,204	10	13M 2J, 20M 2J
9/15/15	3,701	1	2M, 4M killed

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

Total number of females spawned:	85
Total number of males spawned:	85
Total number of green eggs:	358,688
Total number of eyed eggs:	321,634
Number of eggs retained for rearing:	321,634
Date of last spawning:	9/15/15

Chinook Catherine Creek Stock 201 BY15

Lookingglass Fish Hatchery

Date Spawned	Number of Eggs Taken	Females Spawned	Males Spawned
8/13/15	10,254	2	2, 2 killed
8/20/15	24,799	6	6, 0 killed
8/27/15	42,931	9	7 M, 2 J, 2m 2j killed
9/03/15	87,847	20	29 M, 1 J, 9m 1j killed
9/10/15	67,278	16	16 M, 33 killed

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

Total number of females spawned:	53
Total number of males spawned:	48
Total number of green eggs:	233,109
Total number of eyed eggs:	207,199
Number of eggs retained for rearing:	207,199
Date of last spawning:	9/10/15

Spawning Record

Chinook Lostine Stock 200 BY15

Lookingglass Fish Hatchery

Date Spawned	Number of Eggs Taken	Females Spawned	Males Spawned
8/18/15	4,972	1	2, 0 killed
8/25/15	51,316	11	11, 1 killed
9/01/15	119,588	26	26, 4 killed
9/08/15	124,092	30	30, 29 killed
9/15/15	18,582	4	4, 18 killed

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

Total number of females spawned:	72
Total number of males spawned:	72
Total number of green eggs:	318,550
Total number of eyed eggs:	281,954
Total number of eggs culled due to high BKD:	3,433
Number of eggs retained for rearing:	278,161
Date of last spawning:	9/15/15

Rearing to Smolt Stage Only

Chinook Imnaha Stock 29 BY13

Number of smolts produced:	331,872
Weight of smolts produced (lbs.):	15,030
Percent mortality to stocking:	6.42%
Average number/pound of smolts produced:	22.1
Conversion rate:	0.94 at Lookingglass

198,094 smolts (8,843 pounds) were transferred from Lookingglass Fish Hatchery to Imnaha Satellite Facility 3/26/15 for acclimation. Volitional release began on 4/01/15 and the remaining fish were forced out on 4/08/15. 133,778 smolts (6,187 pounds) were direct released into the Imnaha River on 4/14/15.

Rearing to Smolt Stage Only

Chinook
Lookingglass Stock 81 BY13

Number of smolts produced:	176,440
Weight of smolts produced (lbs.):	7,853
Percent mortality to stocking:	5.95%
Average number/pound of smolts produced:	22.5
Conversion rate:	1.00 at Lookingglass

Smolts volitionally released directly into Lookingglass Creek beginning 3/23/15. Smolts remaining were forced out on 3/30/15.

Chinook
Upper Grande Ronde River Stock 80 BY13

Number of smolts produced:	224,545
Weight of smolts produced (lbs.):	9,909
Percent mortality to stocking:	2.7%
Average number/pound of smolts produced:	22.7
Conversion rate:	1.00 at Lookingglass

Smolts were transferred to Grande Ronde Acclimation Facility in two groups. The first group of 118,445 smolts (5,066 pounds) were transferred on 3/16/15 for volitional release beginning 3/30/15. The second group of 106,100 smolts (4,843 pounds) were transferred on 3/31/15 for release beginning 4/14/15. 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 BY13

Number of smolts produced:	146,394
Weight of smolts produced (lbs.):	6,203
Percent mortality to stocking:	4.1%
Average number/pound of smolts produced:	23.6
Conversion rate:	1.02 at Lookingglass

146,394 smolts (6,203 pounds) were transferred from Lookingglass Fish Hatchery to Catherine Creek Acclimation Facility on 3/17/15 for volitional release beginning 3/17/15. 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 BY13

Number of smolts produced:	249,637
Weight of smolts produced (lbs.):	10,668
Percent mortality to stocking:	1.7%
Average number/pound of smolts produced:	23.4
Conversion rate:	0.98 at Lookingglass

Smolts were transferred from Lookingglass Hatchery to Lostine Acclimation Facility in two groups: 125,722 smolts (5,254 pounds) on 3/9/15 for release on 3/30/15 and 126,915 smolts (5,415 pounds) on 3/31/15 for release on 4/15/15. 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 BY13**

Lookingglass Fish Hatchery	
Total pounds of food fed	3,511
Conversion rate	1.13
Total weight gain (lbs.) - all sizes produced	3.098

**Chinook
Imnaha Stock 29 BY14**

Lookingglass Fish Hatchery	
Total pounds of food fed	12,085
Conversion rate	0.98
Total weight gain (lbs.) - all sizes produced	12,369

**Chinook
Lookingglass Stock 81 BY13**

Lookingglass Fish Hatchery	
Total pounds of food fed	2,595
Conversion rate	1.09
Total weight gain (lbs.) - all sizes produced	2,372

**Chinook
Lookingglass Stock 81 BY14**

Lookingglass Fish Hatchery	
Total pounds of food fed	7,342
Conversion rate	0.97
Total weight gain (lbs.) - all sizes produced	7,581

Food Fed and Weight Gain

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

Lookingglass Fish Hatchery	
Total pounds of food fed	3,490
Conversion rate	1.08
Total weight gain (lbs.) - all sizes produced	3,231

**Chinook – Conventional Program
Upper Grande Ronde River Stock 80 BY14**

Lookingglass Fish Hatchery	
Total pounds of food fed	5,622
Conversion rate	0.97
Total weight gain (lbs.) - all sizes produced	5,816

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

Lookingglass Fish Hatchery	
Total pounds of food fed	1,995
Conversion rate	0.92
Total weight gain (lbs.) - all sizes produced	2,174

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

Lookingglass Fish Hatchery	
Total pounds of food fed	3,955
Conversion rate	0.95
Total weight gain (lbs.) - all sizes produced	4,150

Food Fed and Weight Gain

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

Lookingglass Fish Hatchery	
Total pounds of food fed	3,511
Conversion rate	1.13
Total weight gain (lbs.) - all sizes produced	3,098

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

Lookingglass Fish Hatchery	
Total pounds of food fed	5,925
Conversion rate	0.95
Total weight gain (lbs.) - all sizes produced	6,269

**On Hand at Lookingglass Fish Hatchery
September 30, 2015**

Fish on Hand – BY14

Species	Stock	Number
Spring Chinook	Imnaha	520,982
Spring Chinook	Grande Ronde	241,387
Spring Chinook	Lookingglass	313,882
Spring Chinook	Lostine River	260,156
Spring Chinook	Catherine Creek	166,915

FY2015 Stocking

Total number of distribution trips:	22*
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:	1,326,813
Weight of smolts stocked:	49,663 lbs
Date, location, number and weight at each stocking:	See Attached

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

Lookingglass Fish Hatchery and Associated Facility Stocking Records
October 1, 2014 through September 30, 2015

HATCHERY	SPECIES	STOCK	TYPE	DATE	FROM/TO	NO/LB	MORTS	NUMBER STOCKED	POUNDS STOCKED
GRND RND ACC	SPRING CHINOOK	080 13	LIBERATION	03-30-15	GRANDE RONDE AT ACC PD -CTUIR	23.35	0	118,445	5,073
GRND RND ACC	SPRING CHINOOK	080 13	LIBERATION	04-14-15	GRANDE RONDE AT ACC PD -CTUIR	21.90	0	106,100	4,848
LOOKINGGLASS	SPRING CHINOOK	08013	ACCLIMATE	03-16-15	GRANDE RONDE ACC	22.30	0	54,913	2,462
LOOKINGGLASS	SPRING CHINOOK	08013	ACCLIMATE	03-16-15	GRANDE RONDE ACC	24.40	0	63,532	2,604
LOOKINGGLASS	SPRING CHINOOK	08013	ACCLIMATE	03-31-15	GRANDE RONDE ACC	21.67	0	53,986	2,491
LOOKINGGLASS	SPRING CHINOOK	08013	ACCLIMATE	03-31-15	GRANDE RONDE ACC	22.16	0	52,114	2,352
IMNAHA ACC	SPRING CHINOOK	02913	LIBERATION	04-14-15	IMNAHA R	21.62	0	134,778	6,234
IMMAHA ACC	SPRING CHINOOK	02913	LIBERATION	04-08-15	IMNAHA PD ACC	22.41	0	198,093	8,839
LOOKINGGLASS	SPRING CHINOOK	029 13	LIBERATION	04-14-15	IMNAHA R	21.24	0	65,500	3,084
LOOKINGGLASS	SPRING CHINOOK	029 13	LIBERATION	04-15-15	IMNAHA R	22.00	0	68,278	3,104
LOOKINGGLASS	SPRING CHINOOK	029 13	ACCLIMATE	03-26-15	IMNAHA PD ACC	21.79	0	66,141	3,035
LOOKINGGLASS	SPRING CHINOOK	029 13	ACCLIMATE	03-26-15	IMNAHA PD ACC	22.67	0	64,852	2,861
LOOKINGGLASS	SPRING CHINOOK	029 13	ACCLIMATE	03-26-15	IMNAHA PD ACC	22.77	0	67,100	2,947
LOOKINGGLASS	SPRING CHINOOK	081 13	LIBERATION	03/30/15	LOOKINGGLASS CR	22.46	0	176,440	7,853
LOSTINE ACC	SPRING CHINOOK	200 13	LIBERATION	03-09-15	LOSTINE AT ACC POND - NPT	23.93	0	125,722	5,254
LOSTINE ACC	SPRING CHINOOK	200 13	LIBERATION	04-14-15	LOSTINE AT ACC POND - NPT	22.90	0	124,015	5,416
LOOKINGGLASS	SPRING CHINOOK	200 13	ACCLIMATE	03-09-15	LOSTINE ACC	23.93	0	62,245	2,601
LOOKINGGLASS	SPRING CHINOOK	200 13	ACCLIMATE	03-09-15	LOSTINE ACC	23.93	0	63,477	2,653
LOOKINGGLASS	SPRING CHINOOK	200 13	ACCLIMATE	03-31-15	LOSTINE ACC	22.42	0	62,626	2,789
LOOKINGGLASS	SPRING CHINOOK	200 13	ACCLIMATE	03-31-15	LOSTINE ACC	23.38	0	61,389	26,26
LOOKINGGLASS	SPRING CHINOOK	201 13	ACCLIMATE	03-17-15	CATH CR. ACC	23.50	0	72,246	3,074
LOOKINGGLASS	SPRING CHINOOK	201 13	ACCLIMATE	03-17-15	CATH CR. ACC	23.70	0	74,148	3,129
CATH.CR. ACC	SPRING CHINOOK	201 13	LIBERATION	03-31-15	CATHERINE CR AT ACC PD - CTUIR	23.60	0	146,374	6,203