

LOOKINGGLASS FISH HATCHERY ANNUAL REPORT FY2007

INTRODUCTION

Location

Lookingglass Fish Hatchery is located on the left bank of Lookingglass Creek at river mile 2.2, approximately 85 miles upstream from the mouth of the Grande Ronde River and 324 miles upstream from the mouth of the Columbia River. Imnaha Satellite Facility, located at river mile 46 on the Imnaha River, is used for adult trapping and smolt acclimation. During the summer months, Imnaha Weir is installed across the Imnaha River at this site.

OBJECTIVES

Mitigation Goals

Lookingglass Fish Hatchery is part of the Lower Snake River Compensation Program (LSRCP) and has been in operation since 1982. A satellite facility on the Imnaha River is used for smolt acclimation and adult collection. Mitigation goals are variable according to adult returns and interagency agreements. The 2007 release of acclimated Imnaha stock (2905) smolts from Imnaha Satellite Facility was a total of 432,530 fish were released into the Imnaha River.

CHINOOK

Adult Returns

The Imnaha Weir was installed on May 22, 2007, but the pickets weren't put in place and Chinook collection did not start until June, 1, 2007 and continued through September 17, 2007. In 2007, 1,331 Imnaha (2907) stock Chinook (465 males, 349 females and 517 jacks) were trapped at the Imnaha Weir. Of these, 228 males, 153 females, and 41 jacks were opercle-punched and passed above the Imnaha Weir to spawn naturally. 602 chinook, consisting of 217 males, 169 females and 216 jacks, were collected and transported to Lookingglass Fish Hatchery. Of the fish held at Lookingglass Fish Hatchery, 104 males, 103 females and 30 jacks were kept for brood stock. All remaining adults were opercle-punched, transported to streams and released to spawn naturally. 46 males and 14 females were released into Big Sheep Creek. 68 males and 43 females were released into Lick Creek, and 67 Jacks were released into the Powder River for a catch and take opportunity. Of the chinook kept for brood stock, 79 males, 94 females and 30 jacks survived to spawn. Sperm was collected from natural males and jacks for cryopreservation.

187 Lookingglass Creek (8107) stock Chinook (54 males, 67 females and 66 jacks) returned to Lookingglass Creek in 2007. Of these fish, 32 males, 37 females and 6 jacks were released into Lookingglass Creek above the hatchery weir to spawn naturally. 10 males and 5 females and 34 jacks were given to the Confederated Tribes of the Umatilla Indian Reservation (CUTIR) for ceremonial and subsistence purposes. Of the Chinook kept for brood stock, 7 males, 23 females, 23 jacks survived to spawn.

Egg Production

All eggs from Imnaha stock chinook, as well as the three conventional program stocks, Lookingglass Creek, Catherine Creek, Grande Ronde River, and Lostine, were eyed-up at Lookingglass Fish Hatchery in 2007 and will remain at Lookingglass Fish Hatchery through rearing.

During the report period 93 Imnaha stock (2907) females were spawned for an estimated yield of 408,336 green and 303,057 eyed eggs.

32 Grande Ronde River stock (8007) females were spawned for an estimated yield of 122,752 green and 99,136 eyed eggs.

45 Catherine Creek stock (20107) females were spawned for an estimated yield of 171,065 green and 146,207 eyed eggs.

60 Lostine River stock (20007) females were spawned for an estimated yield of 267,360 green and 231,882 eyed eggs.

23 Lookingglass Creek stock (8107) females were spawned for an estimated yield of 68,055 green and 52,333 eyed eggs.

Conventional Chinook Program

Upper Grande Ronde Collection Facility: 22 males, 29 females and 2 jacks of Grande Ronde River (8007) origin were transported to Lookingglass Fish Hatchery in addition, 4 males, 4 females, and 11 jacks were collected in the Lookingglass FH trap for use as broodstock.

Catherine Creek Collection Facility: 26 males, 47 females, and 5 jacks of Catherine Creek (20107) origin were transported to Lookingglass Fish Hatchery for spawning and in addition 2 males, and 5 females, and 2 jacks were collected in the Lookingglass FH trap for us as broodstock.

Lostine River Collection Facility: 51 males, 66 females and 5 jacks of Lostine River (20007) origin were transported to Lookingglass Fish Hatchery for use as broodstock.

Captive Broodstock Chinook Program

A separate annual report covers the operation of this program.

Miscellaneous

Coded Wire Tagging was completed on the BY 2006 Imnaha, Lostine, Catherine Creek and Upper Grande Ronde River stocks of Chinook in July, 2007.

PIT-tagging was completed on the BY 2006 Imnaha, Lostine, Catherine Creek and Upper Grande Ronde River stocks of Chinook during October, 2007.

CONSTRUCTION AND MAINTENANCE

MAINTENANCE PROJECTS ACCOMPLISHED BY ODFW PERSONNEL

- Transported garbage to refuse station in La Grande, OR
- Shoveled and removed snow throughout the hatchery grounds and hatchery road entering the facility
- Completed the installation of eight new deep Canadian troughs in Hatch House
- Service diesel generators around facility
- Installed new windshield on Kawasaki Mule
- Built four new raceway keys
- Repainted floors in Hatch House with polyurethane enamel paint embedded with traction sand
- Service Cat road grader and John Deere 6410 tractor
- Crew stripped and waxed all floors in the bunkhouse
- Installed new kitchen counter in bunkhouse
- Serviced Fish liberation pump
- Fabricated new aluminum dam boards
- Repaired and serviced automatic feeders in hatch house
- Crew de-winterized the facility
- Repainted handicapped parking area
- Cleaned and pressure washed and re-set up incubation trays for next season
- Maintenance and repair to all raceway automatic feeders
- Cleaned, sterilized, repaired all Deep Canadian Troughs
- Mended nets
- Repaired liberation fill spout
- Serviced and set up formalin injection system
- Completed installation of formalin injection system to new incubation tray banks
- Built gantries to lift new encapsulated Adult Holding Pond dam boards
- Washed vehicles
- Trimmed trees, lawns, and weeded flower beds
- Mowed along the hatchery road to the facility
- Clean, replaced bulbs and did maintenance on Ultraviolet System
- Replaced two electrical vault covers and installed protective bollards around them
- Cut pond wedges
- Did maintenance on automatic fish crowder
- Built shelves in shop
- Fabricated new jump boards at south end of acclimation pond at Imnaha
- Installed aluminum plates on potential jump-out spots at Adult Holding Pond
- Raceway crowdere were rebuilt or repaired

- Ran the fire suppression system and washed down the pavement around facility
- Built a cleaning brush for UV system
- Painted Hatch House main creek water pipe line
- Painted support stanchions and jump boards to Canadian Troughs
- Modified Adult Holding Pond spray bars
- Installed new mini blinds in bunkhouse
- Repainted all bollards around hatchery
- Repainted, cleaned, and replaced DEQ and OSHA required signage on fuel tanks
- Removed old mothballed pipeline from TW3 well system
- Painted picnic tables, doors in hatch house, and fish ladder stairwell
- Fabricated and installed Incubation Room tray dry-erase boards
- Built stairwell and landing for new generator building
- Winterized facility
- Built a Bio-retention chamber in parking lot below outflow of raceways
- Built new Passive Integrated Transponder retrieval magnet wands for raceways
- Built new metal Canadian trough number plates
- Picked up and redistributed gravel around facility
- Built new fish measuring boards
- Built a new burn barrel meeting Oregon Dept. of Forestry specifications
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MAINTENANCE PROJECTS ACCOMPLISHED BY CONTRACTORS

Coffey Laboratories (Pendleton/Portland, OR) – Analyzed domestic water samples and DEQ water samples.

Elkhorn Electric – General electrical repairs around the facility

Equipment Technology & Design – Reprogram the PLC to talk with the Variable Frequency Drive and the Diesel back-up engine

Frank McGowan, MCS – Serviced and shut down chillers for the season, and installed the well monitoring system for flow and pressure.

S & G Machinery – mounted new front end loader on John Deere 755

Smith Diesel – Quarterly inspections on new Hatchery back-up generator

Amerigas – filled propane tanks at Imnaha

Alpine Alarm – serviced fire extinguishers and tested alarms at residential housing and hatchery

USFWS/LSRCP – Regional Environmental Compliance Audit

Forest Capital Products – Inspection of land adjacent to Hatchery

England Transportation – Moved autofish and manual tagging van

Epic Energy – Installed new hatchery back-up generator

Kringlen Refrigeration – serviced compressors, air conditioner for TW2 Well and replaced freezer fans

Blue Mountain Oil – delivered fuel oil for new hatchery back-up generator

Connell Oil Company – delivered fuel oil and gasoline to LGH

MAJOR EXPENSES

Repair & maintenance of buildings and grounds	\$ 11,132.00
Fish food	31,219.00
Temporary services	25,592.00
Supplies	41,017.00
Communication services	12,317.00
Utilities	2,128.00
Chemicals	14,845.00
Office supplies	<u>2,782.00</u>
Total	\$141,032.00

Adult Returns to Hatchery

Chinook Lookingglass Creek Stock BY07

Lookingglass Fish Hatchery

Where trapped:	Lookingglass Creek Weir
Date of first return:	May 12, 2007
Date of last return:	September 3, 2007
Number of adults trapped:	67 females, 54 males, 66 jacks
Date of peak returns:	May 28 and June 3, 2007
Number of adults released to spawn naturally:	37 females, 32 males, 6 jacks
Number of adults to hatchery for broodstock:	23 females, 7 males, 23 jacks
Mortality of all adult returns	0 females, 0 males
	<i>at trap:</i>
	<i>at hatchery:</i>
	2 females, 1 male, 3 Jacks

CTUIR staff dispatched 5 females, 10 males and 34 jacks as surplus to program needs. Fish were given to CTUIR for ceremonial and subsistence purposes.

Chinook - Conventional Broodstock Program Grande Ronde River Stock BY07

Lookingglass Fish Hatchery

Where trapped:	Lookingglass Creek Weir
Dates trapped:	March 27 – September 17, 2007
Number of adults trapped:	4 females, 4 males, 11 jacks
Date of peak trapping:	June 11, 2007
Number of adults released to spawn naturally:	0 females, 0 males, 0 jacks
Number of adults to hatchery for broodstock:	4 females, 4 males, 11 jacks
Mortality of all adults	0 female, 0 males
	<i>at trap:</i>
	<i>at hatchery:</i>
	0 female, 0 males

Chinook - Conventional Broodstock Program Catherine Creek Stock BY07

Lookingglass Fish Hatchery

Where trapped:	Lookingglass Creek Weir
Dates trapped:	June 1 – September 17, 2007
Number of adults trapped:	5 females, 2 males, 2 jacks
Date of peak trapping:	June 1, 2007
Number of adults released to spawn naturally:	0 females, 0 males, 0 jacks
Number of adults to hatchery for broodstock:	5 females, 2 males, 2 jacks
Mortality of all adults	0 females, 0 males
	<i>at trap:</i>
	<i>at hatchery:</i>
	0 females, 0 males

Adults Trapped Off Hatchery and Transported to Hatchery

Chinook Imnaha Stock BY07

Lookingglass Fish Hatchery	
Where trapped:	Imnaha Satellite Facility
Date weir installed:	May 22, 2007
Dates trapped:	June 1 - Sept 17, 2007
Number of adults trapped:	349 females, 465 males, 517 jacks
Date of peak trapping:	July 9, 2007
Number of adults released to spawn naturally:	
<i>Imnaha River (above weir)</i>	153 females, 228 males, 41 jacks
<i>Big Sheep Creek</i>	20 females, 18 males, 38 jacks
<i>Lick Creek</i>	7 females, 2 males, 20 jacks
<i>Powder River</i>	0 females, 0 males, 171 jacks
Number of adults to hatchery for broodstock:	168 females, 218 males, 216 jacks
Number given away	0 females, 0 males, 137 jacks
Mortality of all adults	<i>at trap:</i> 0 females, 0 males, 3 jacks
	<i>at hatchery:</i> 9 females, 11 males, 10 jacks

NPT staff dispatched 117 jacks as surplus to program needs. Fish were given to NPT for ceremonial and subsistence purposes.

CTUIR staff dispatched 20 jacks as surplus to program needs. Fish were given to CTUIR for ceremonial and subsistence purposes.

Chinook - Conventional Broodstock Program Grande Ronde River Stock BY07

Lookingglass Fish Hatchery	
Where trapped:	Upper Grande Ronde Weir
Dates trapped:	May 18 – July 26, 2007
Number of adults trapped:	39 females, 31 males, 3 jacks
Date of peak trapping:	June 3, 2007
Number of adults released to spawn naturally:	9 females, 9 males, 1 jack
Number of adults to hatchery for broodstock:	29 females, 22 males, 2 jacks
Mortality of all adults	<i>at trap:</i> 1 female, 0 males
	<i>at hatchery:</i> 1 female, 2 males, 1 jack

Adults Trapped Off Hatchery and Transported to Hatchery

**Chinook - Conventional Broodstock Program
Catherine Creek Stock BY07**

Lookingglass Fish Hatchery	
Where trapped:	Catherine Creek Weir
Dates trapped:	May 14 – September 3, 2007
Number of adults trapped:	104 females, 96 males, 34 jacks
Date of peak trapping:	June 3, 2007
Number of adults released to spawn naturally:	67 females, 68 males, 6 jacks
Number of adults to hatchery for broodstock:	47 females, 26 males, 5 jacks
Mortality of all adults	<i>at trap:</i> 0 females, 0 males
	<i>at hatchery:</i> 2 female, 2 males

**Chinook - Conventional Broodstock Program
Lostine River Stock BY07**

Lookingglass Fish Hatchery	
Where trapped:	Lostine River Weir
Dates trapped:	June 7 - September 27, 2007
Date of peak trapping:	July 5, 2007
Number of adults trapped:	252 females, 207 males, 175 jacks
Number of adults released to spawn naturally:	184 females, 153 males, 78 jacks
Number of adults to hatchery for broodstock:	66 females, 51 males, 5 jacks
Mortality of all adults	<i>at trap:</i> 0 females, 2 males
	<i>at hatchery:</i> 5 females, 5 males

NPT staff dispatched 1 male and 92 jacks as surplus to program needs. Fish were given to NPT for ceremonial and subsistence purposes.

The Lower Snake River Compensation Plan funds the Chinook Captive Broodstock Program from egg incubation through release of progeny. Spawning took place at

Bonneville Fish Hatchery, green eggs were incubated at Oxbow Fish Hatchery, and the resulting eyed eggs and fry were reared at Lookingglass Fish Hatchery

SPAWNING RECORD

Chinook Captive Broodstock Program Upper Grande Ronde River Stock BY06

Bonneville Fish Hatchery

Date Spawned	Number of Eggs Taken	Females Spawned	Males Spawned
9/19/06	1,528	1	4
9/27/06	997	2	6
10/11/06	1,206	2	4

Captive broodstock fish are spawned according to specific matrices, depending on treatments and cohorts of mature fish.

Total number of females spawned:	5
Total number of males spawned:	14
Total number of cryopreserved sperm samples used:	0
Total number of green eggs:	3,731
Total number of eyed eggs:	2,174
Number of eggs retained for rearing:	0*
Number of eggs shipped:	1,378
Number of eggs culled due to high BKD titers	796
Date of last spawning:	10/11/06

**All upper Grande Ronde River stock green eggs were shipped to Oxbow Fish Hatchery for incubation. Once eyed, the eggs were shipped to Lookingglass Fish Hatchery for rearing.*

SPAWNING RECORD

**Chinook Captive Broodstock Program
Catherine Creek Stock BY06**

Bonneville Fish Hatchery

Date Spawned	Number of Eggs Taken	Females Spawned	Males Spawned
9/13/06	4,269	4	8
9/19/06	8,474	5	10
9/26/06	50,656	42	74
10/04/06	35,533	29	52
10/11/06	1,553	3	4

Captive broodstock fish are spawned according to specific matrices, depending on treatments and cohorts of mature fish.

Total number of females spawned:	83
Total number of males spawned:	148
Total number of cryopreserved sperm samples used:	0
Total number of green eggs:	100,485
Total number of eyed eggs:	88,616
Number of eggs retained for rearing:	0*
Number of eggs shipped:	50,391
Number of eggs culled due to high BKD titers	38,225
Date of last spawning:	10/11/06

**All Catherine Creek stock green eggs were shipped to Oxbow Fish Hatchery for incubation. Once eyed, the eggs were shipped to Lookingglass Fish Hatchery for rearing.*

SPAWNING RECORD

**Chinook Captive Broodstock Program
Lostine River Stock BY06**

Bonneville Fish Hatchery

Date Spawned	Number of Eggs Taken	Females Spawned	Males Spawned
9/06/06	1,081	1	2
9/13/06	1,316	1	2
9/19/06	15,016	11	22
9/27/06	34,138	29	56
10/05/06	14,326	12	39
10/10/06	7,797	9	30

Captive broodstock fish are spawned according to specific matrices, depending on treatments and cohorts of mature fish.

Total number of females spawned:	63
Total number of males spawned:	151
Total number of cryopreserved sperm samples used:	0
Total number of green eggs:	73,674
Total number of eyed eggs:	58,283
Number of eggs retained for rearing:	0*
Number of eggs shipped:	14,649
Number of eggs culled due to high BKD titers	43,364
Date of last spawning:	10/10/06

**All Lostine River stock green eggs were shipped to Oxbow Fish Hatchery for incubation. Once eyed, the eggs were shipped to Lookingglass Fish Hatchery for rearing.*

SPAWNING RECORD

**Chinook
Imnaha Stock BY07**

Lookingglass Fish Hatchery

Date Spawned	Number of Eggs Taken	Females Spawned	Males Spawned
8/14/07	5,802	1	
8/21/07	31,065	7	
8/27/07	77,663	17	
9/04/07	257,144	60	57M, 12J
9/10/07	31,888	7	7
9/13/07	4,774	1	2

Imnaha stock chinook eggs and sperm were combined according to matrices, depending on available mature broodstock. Sperm from hatchery jacks was pooled.

Total number of females spawned: 93
 Total number of males spawned: 91 males, 30 jacks
 Total number of green eggs: 408,336
 Total number of eyed eggs: 305,057
 Number of eggs retained for rearing: 305,057
 Date of last spawning: 9/13/07

**Chinook
Lookingglass Stock BY07**

Lookingglass Fish Hatchery

Date Spawned	Number of Eggs Taken	Females Spawned	Males Spawned
8/29/07	24,848	8	
9/06/07	40,285	14	7
9/11/07	2,922	1	

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

Total number of females spawned: 23
 Total number of males spawned: 11 males, 23 jacks
 Total number of green eggs: 68,055
 Total number of eyed eggs: 52,333
 Number of eggs retained for rearing: 52,333
 Date of last spawning: 9/11/07

Spawning Record

**Chinook - Conventional Broodstock Program
Upper Grande Ronde Stock BY07**

Lookingglass Fish Hatchery

Date Spawned	Number of Eggs Taken	Females Spawned	Males Spawned
8/15/07	4,449	1	
9/06/07	24,685	7	
9/11/07	55,996	14	
9/17/06	37,662	10	10

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

Total number of females spawned: 32
 Total number of males spawned: 24 males, 12 jacks
 Total number of green eggs: 122,752
 Total number of eyed eggs: 99,136
 Number of eggs retained for rearing: 99,136
 Date of last spawning: 9/17/07

**Chinook - Conventional Broodstock Program
Catherine Creek Stock BY07**

Lookingglass Fish Hatchery

Date Spawned	Number of Eggs Taken	Females Spawned	Males Spawned
8/22/07	8,327	2	
8/29/07	89,136	24	
9/06/07	47,935	12	11
9/11/07	25,667	7	13

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

Total number of females spawned: 45
 Total number of males spawned: 24 males, 5 jacks
 Total number of green eggs: 171,065
 Total number of eyed eggs: 146,207
 Number of eggs retained for rearing: 146,207
 Date of last spawning: 9/11/07

Spawning Record

**Chinook - Conventional Broodstock Program
Lostine Stock BY07**

Lookingglass Fish Hatchery

Date Spawned	Number of Eggs Taken	Females Spawned	Males Spawned
9/05/07	50,093	10	10
9/10/07	86,813	19	19
9/13/07	66,398	15	15
9/17/07	49,195	12	12
9/20/07	9,230	2	2
9/24/07	5,631	2	2

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

Total number of females spawned: 60
 Total number of males spawned: 45 males, 5 jacks
 Total number of green eggs: 267,360
 Total number of eyed eggs: 231,882
 Number of eggs retained for rearing: 231,882
 Date of last spawning: 9/24/07

Rearing to Smolt Stage Only

**Chinook
Imnaha Stock BY05**

Number of smolts produced: 432,530
 Weight of smolts produced (lbs.): 20,040.9
 Percent mortality to stocking: 1.34%
 Average number/pound of smolts produced: 21.58
 Conversion rate: 1.19 at Lookingglass

432,633 smolts (19,034.5 pounds) were transferred from Lookingglass Fish Hatchery to Imnaha Satellite Facility 3/13-3/29/2007 for acclimation. Volitional release began on 3/21/2007 and the remaining fish were forced out on 4/12/07.

Rearing to Smolt Stage Only

**Chinook - Captive Broodstock Program (F₁'s)
Upper Grande Ronde River Stock BY05**

Number of smolts produced:	20,620
Weight of smolts produced (lbs.):	888.8
Percent mortality to stocking:	1.73%
Average number/pound of smolts produced:	23.20
Conversion rate:	1.30 at Lookingglass

Smolts were transferred from Lookingglass Fish Hatchery to Grande Ronde Acclimation Facility 3/12/2007 for acclimation. Volitional release began on 3/19/07. 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
Upper Grande Ronde River Stock BY05**

Number of smolts produced:	118,803
Weight of smolts produced (lbs.):	5,739.3
Percent mortality to stocking:	0.97%
Average number/pound of smolts produced:	20.7
Conversion rate:	1.12 at Lookingglass

118,840 smolts (5,499.1pounds) were transferred from Lookingglass Fish Hatchery to Grande Ronde Acclimation Facility on 3/26/2007. Volitional release began on 4/02/2007. Grande Ronde Acclimation Facility is operated by the CTUIR. Facility operations are BPA funded. Fish feed is provided by the LSRCP.

**Chinook - Captive Broodstock Program (F₁'s)
Catherine Creek Stock BY05**

Number of smolts produced:	21,584
Weight of smolts produced (lbs.):	833.4
Percent mortality to stocking:	14.0%
Average number/pound of smolts produced:	25.9
Conversion rate:	1.50 at Lookingglass

Smolts were transferred from Lookingglass Fish Hatchery to Catherine Creek Acclimation Facility on 3/12/2007. Volitional release began 3/26/2007, and all remaining fish were forced out 4/9/2007. 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 Broodstock Program

Catherine Creek Stock BY05

Number of smolts produced:	49,696
Weight of smolts produced (lbs.):	1,820.4
Percent mortality to stocking:	2.90%
Average number/pound of smolts produced:	27.3
Conversion rate:	1.24 at Lookingglass

49,709 smolts (1816.9 pounds) were transferred from Lookingglass Fish Hatchery to Catherine Creek Acclimation Facility on 3/12/2007. Volitional release began 3/26/2007, and all remaining fish were forced out 4/9/2007. Catherine Creek Acclimation Facility is operated by the CTUIR. Facility operations are BPA funded. Fish feed is provided by the LSRCP.

**Chinook - Captive Broodstock Program (F₁'s)
Lostine River Stock BY05**

Number of smolts produced:	24,604
Weight of smolts produced (lbs.):	1,096.0
Percent mortality to stocking:	11.9%
Average number/pound of smolts produced:	22.4
Conversion rate:	1.41 at Lookingglass

24,617 smolts (1,057.4 pounds) were transferred from Lookingglass Fish Hatchery to Lostine Acclimation Facility on 3/27/07. Volitional release began 3/16/2007, and all remaining fish were forced out 4/07/2007. Lostine Acclimation Pond is operated by the Nez Perce Tribe. Facility operations are BPA funded. Fish feed is provided by the LSRCP.

**Chinook - Conventional Broodstock Program
Lostine River Stock BY05**

Number of smolts produced:	205,406
Weight of smolts produced (lbs.):	9,855.0
Percent mortality to stocking:	0.98%
Average number/pound of smolts produced:	20.8
Conversion rate:	1.24 at Lookingglass

Smolts were transferred from Lookingglass Fish Hatchery to Lostine Acclimation Facility in two groups. The first release group was transferred to the acclimation facility on 3/5/2007, volitional release began 3/13/2007, and all remaining fish were forced out 3/26/2007. The second release group was transferred to the acclimation facility 3/26 – 3/27/2007, volitional release began on 3/28/2007, and all remaining fish were forced out 4/12/2007. Lostine Acclimation Facility 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 BY05**

Lookingglass Fish Hatchery	
Total pounds of food fed	6,753.9
Conversion rate	15.5
Total weight gain (lbs.) - all sizes produced	4,361.8

**Chinook
Imnaha Stock BY06**

Lookingglass Fish Hatchery	
Total pounds of food fed	13,631.6
Conversion rate	1.06
Total weight gain (lbs.) - all sizes produced	12,827.9

**Chinook – Mixed Captive Brood and Conventionals
Upper Grande Ronde River Stock BY05**

Lookingglass Fish Hatchery	
Total pounds of food fed	252.0
Conversion rate	1.83
Total weight gain (lbs.) - all sizes produced	137.7

**Chinook - Captive Broodstock Program (F₁'s)
Catherine Creek Stock BY05**

Lookingglass Fish Hatchery	
Total pounds of food fed	348.9
Conversion rate	1.50
Total weight gain (lbs.) - all sizes produced	232.2

Food Fed and Weight Gain

Chinook - Captive Broodstock Program (F₁'s)

Catherine Creek Stock BY06

Lookingglass Fish Hatchery	
Total pounds of food fed	1,563.4
Conversion rate	0.99
Total weight gain (lbs.) - all sizes produced	1,575.9

**Chinook - Captive Broodstock Program (F₁'s)
Lostine River Creek Stock BY05**

Lookingglass Fish Hatchery	
Total pounds of food fed	367.7
Conversion rate	1.28
Total weight gain (lbs.) - all sizes produced	287.6

**Captive Broodstock Chinook (F₁'s)
Lostine River Stock BY06**

Lookingglass Fish Hatchery	
Total pounds of food fed	422.0
Conversion rate	1.20
Total weight gain (lbs.) - all sizes produced	351.3

**Chinook - Conventional Broodstock Program
Upper Grande Ronde River Stock BY05**

Lookingglass Fish Hatchery	
Total pounds of food fed	2,481.2
Conversion rate	1.15
Total weight gain (lbs.) - all sizes produced	2,164.8

Food Fed and Weight Gain**Chinook - Conventional Broodstock Program
Upper Grande Ronde River Stock BY06**

Lookingglass Fish Hatchery	
Total pounds of food fed	9,732.7
Conversion rate	1.05
Total weight gain (lbs.) - all sizes produced	9,252.8

**Chinook - Conventional Broodstock Program
Catherine Creek Stock BY05**

Lookingglass Fish Hatchery	
Total pounds of food fed	797.8
Conversion rate	1.37
Total weight gain (lbs.) - all sizes produced	582.9

**Chinook - Conventional Broodstock Program
Catherine Creek Stock BY06**

Lookingglass Fish Hatchery	
Total pounds of food fed	4,495.8
Conversion rate	1.04
Total weight gain (lbs.) - all sizes produced	4,311.0

**Chinook - Conventional Broodstock Program
Lostine River Stock BY05**

Lookingglass Fish Hatchery	
Total pounds of food fed	3,206.4
Conversion rate	1.63
Total weight gain (lbs.) - all sizes produced	1,961.2

**Chinook - Conventional Broodstock Program
Lostine River Stock BY06**

Lookingglass Fish Hatchery	
Total pounds of food fed	6,711.4
Conversion rate	1.05
Total weight gain (lbs.) - all sizes produced	6,361.9

**On Hand at Lookingglass Fish Hatchery
September 30, 2007**

Fish on Hand – BY06

Species	Stock	Number
Spring Chinook	Imnaha	350,413
Spring Chinook	Grande Ronde	260,550
Spring Chinook	Lostine River	195,591
Spring Chinook	Lostine River Captive Brood	10,534
Spring Chinook	Catherine Creek	117,214
Spring Chinook	Catherine Creek Captive Brood	43,448

FY2007 Stocking

Total number of distribution trips:	22*
Number of fry stocked:	0
Weight of fry stocked:	0 lbs
Number of parr stocked:	0
Weight of parr stocked:	0 lbs
Number of smolts stocked:	873,243
Weight of smolts stocked:	22,273.8 lbs
Date, location, number and weight at each stocking:	See Attached

**All distribution trips were made to acclimation facilities associated with Lookingglass Fish Hatchery. There were no direct stream releases from the hatchery in FY2007.*

Lookingglass Fish Hatchery and Associated Facility Stocking Records
October 1, 2006 through September 30, 2007

HATCHERY	SPECIES	LOT	TYPE	DATE	FROM/TO	NO/LB	MORTS	NUMBER STOCKED	POUNDS STOCKED
CATH.CR. ACC	SPRING CHINOOK	201 05	LIBERATION	3/26/07	CATHERINE CR AT ACC PD - CTUIR	27.3	0	49,696	1,820.37
CATH.CR. ACC	SPRING CHINOOK	201F05	LIBERATION	3/26/07	CATHERINE CR AT ACC PD - CTUIR	25.9	0	21,584	833.36
GRND RND ACC	SPRING CHINOOK	080 05	LIBERATION	4/2/07	GRANDE RONDE AT ACC PD -CTUIR	20.7	0	118,803	5,739.28
GRND RND ACC	SPRING CHINOOK	080F05	LIBERATION	3/19/07	GRANDE RONDE AT ACC PD -CTUIR	23.2	0	20,620	888.79
IMNAHA PD	SPRING CHINOOK	029 05	LIBERATION	3/21/07	IMNAHA R	21.8	0	110,000	5,045.87
IMNAHA PD	SPRING CHINOOK	029 05	LIBERATION	3/31/07	IMNAHA R	21.8	0	10,000	458.72
IMNAHA PD	SPRING CHINOOK	029 05	LIBERATION	4/1/07	IMNAHA R	21.5	0	312,530	14,536.28
LOSTINE ACC	SPRING CHINOOK	200 05	LIBERATION	4/7/07	LOSTINE AT ACC POND - NPT	19.62	0	100,297	5,113.00
LOSTINE ACC	SPRING CHINOOK	200 05	LIBERATION	3/16/07	LOSTINE AT ACC POND - NPT	24.02	0	51,796	2,156.00
LOSTINE ACC	SPRING CHINOOK	200 05	LIBERATION	3/16/07	LOSTINE AT ACC POND - NPT	20.62	0	53,313	2,586.00
LOSTINE ACC	SPRING CHINOOK	200F05	LIBERATION	4/7/07	LOSTINE AT ACC POND - NPT	22.45	0	24,604	1,096.00
LOOKINGGLASS	SPRING CHINOOK	029 05	ACCLIMATE	3/13/07	IMNAHA PD	25.36	0	61,662	2,431.47
LOOKINGGLASS	SPRING CHINOOK	029 05	ACCLIMATE	3/13/07	IMNAHA PD	22.73	0	59,098	2,600.00
LOOKINGGLASS	SPRING CHINOOK	029 05	ACCLIMATE	3/13/07	IMNAHA PD	24.94	0	53,128	2,130.23
LOOKINGGLASS	SPRING CHINOOK	029 05	ACCLIMATE	3/14/07	IMNAHA PD	23.74	0	30,911	1,302.06
LOOKINGGLASS	SPRING CHINOOK	029 05	ACCLIMATE	3/13/07	IMNAHA PD	22.73	0	2,722	119.75
LOOKINGGLASS	SPRING CHINOOK	029 05	ACCLIMATE	3/28/07	IMNAHA PD	20.59	2	61,024	2,963.77
LOOKINGGLASS	SPRING CHINOOK	029 05	ACCLIMATE	3/29/07	IMNAHA PD	20.25	6	62,737	3,098.12
LOOKINGGLASS	SPRING CHINOOK	029 05	ACCLIMATE	3/14/07	IMNAHA PD	24.94	0	8,627	345.91
LOOKINGGLASS	SPRING CHINOOK	029 05	ACCLIMATE	3/14/07	IMNAHA PD	22.55	0	61,814	2,741.20
LOOKINGGLASS	SPRING CHINOOK	029 05	ACCLIMATE	3/14/07	IMNAHA PD	23.74	0	30,910	1,302.02
LOOKINGGLASS	SPRING CHINOOK	080 05	ACCLIMATE	3/26/07	GRND RND ACC	21.35	0	39,380	1,844.50
LOOKINGGLASS	SPRING CHINOOK	080 05	ACCLIMATE	3/26/07	GRND RND ACC	21.2	0	39,282	1,852.92
LOOKINGGLASS	SPRING CHINOOK	080 05	ACCLIMATE	3/26/07	GRND RND ACC	22.3	0	40,178	1,801.70
LOOKINGGLASS	SPRING CHINOOK	080F05	ACCLIMATE	3/12/07	GRND RND ACC	23.21	0	20,620	888.41
LOOKINGGLASS	SPRING CHINOOK	200 05	ACCLIMATE	3/5/07	LOSTINE ACC	21.23	0	13,335	628.12
LOOKINGGLASS	SPRING CHINOOK	200 05	ACCLIMATE	3/5/07	LOSTINE ACC	24.9	0	25,909	1,040.52
LOOKINGGLASS	SPRING CHINOOK	200 05	ACCLIMATE	3/26/07	LOSTINE ACC	19.76	0	50,689	2,565.23
LOOKINGGLASS	SPRING CHINOOK	200 05	ACCLIMATE	3/5/07	LOSTINE ACC	21.23	4	40,001	1,884.17
LOOKINGGLASS	SPRING CHINOOK	200 05	ACCLIMATE	3/5/07	LOSTINE ACC	24.9	8	25,901	1,040.20
LOOKINGGLASS	SPRING CHINOOK	200 05	ACCLIMATE	3/27/07	LOSTINE ACC	20.68	8	49,663	2,401.50

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October 1, 2006 through September 30, 2007

HATCHERY	SPECIES	LOT	TYPE	DATE	FROM/TO	NO/LB	MORTS	NUMBER STOCKED	POUNDS STOCKED
LOOKINGGLASS	SPRING CHINOOK	200F05	ACCLIMATE	3/27/07	LOSTINE ACC	23.28	12	24,617	1,057.43
LOOKINGGLASS	SPRING CHINOOK	201 05	ACCLIMATE	3/12/07	CAT. CR. ACC	27.36	0	49,709	1,816.85
LOOKINGGLASS	SPRING CHINOOK	201F05	ACCLIMATE	3/12/07	CAT. CR. ACC	24.85	0	21,584	868.57