



## Fish Passage Center

# Weekly Report #05 - 30

October 21, 2005

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### Summary of Events:

**Water Supply:** Water Year 2006 began on October 1, 2005. Precipitation has been above average over the first seventeen days of October at most Columbia Basin locations. Of the sites in Table 1, all but the lower Columbia locations recorded precipitation that was greater than average over the first seventeen days of October.

**Table 1. Summary of October precipitation and cumulative WY 2006 precipitation with respect to average (1971-2000), at select locations within the Columbia and Snake River Basins.**

Location	Water Year 2006 October 1-17		Water Year 2006 October 1, 2005 to October 17, 2005	
	Observed (inches)	% Average	Observed (inches)	% Average
Columbia Above Coulee	1.80	177	1.80	177
Snake River Above Ice Harbor	0.83	126	0.83	126
Columbia Above The Dalles	1.31	143	1.31	143
Kootenai	2.17	213	2.17	213
Clark Fork	0.80	124	0.80	124
Flathead	1.09	119	1.09	119
Pend Oreille/Spokane	1.55	132	1.55	132
Central Washington	0.36	107	0.36	107
Snake River Plain	0.5	106	0.5	106
Salmon/Boise/Payette	0.81	119	0.81	119
Clearwater	1.22	103	1.22	103
SW Washington Cascades/Cowlitz	2.36	78	2.36	78
Willamette Valley	1.50	64	1.50	64

River flows at Lower Granite Dam have averaged 15.5 Kcfs between October 14 and 20. River flows at McNary Dam have averaged 105.3 over the same time period.

Grand Coulee Reservoir is currently at an elevation of 1287.3 feet (October 20th, 2005 midnight) and has refilled 1.2 feet in the last week.

The Libby Reservoir is currently at an elevation of 2442.3 feet (10-20-05) and refilled 2.3 feet last week. Inflows to Libby have increased over the last several days, reaching 20.8 Kcfs on October 20th, 2005. Outflows at Libby remain at 4.7 Kcfs.

Hungry Horse is currently at an elevation of 3537.9 feet (October 20th, 2005 midnight) and has remained at a relatively steady elevation for the last week. Outflows at Hungry Horse have ranged between 0.8-3.3 Kcfs over the last week.

Dworshak is currently an elevation of 1518.1 feet (October 20th, 2005 midnight). Outflows at Dworshak are at the 1.5-1.6 Kcfs minimum.

The Brownlee Reservoir was at an elevation of 2057.2 feet on October 20th, 2005 and has refilled 2.3 feet last week. Outflows last week ranged between 8.1 and 11.1 Kcfs over the last week.

**Smolt Monitoring:** Passage indices for subyearling Chinook inched higher at the monitoring sites that are still sampling, although numbers are very low at this time. At Lower Granite Dam in the Lower Snake River, the subyearling Chinook passage index averaged 230 per day over the past two weeks compared to 15 per day the previous two weeks. Small but increased numbers of yearling Chinook passed Lower Granite Dam in the past few weeks as a late season release in the South Fork Clearwater River began to arrive at the project. At Little Goose Dam the index averaged 75 per day the past two weeks compared to about 10 per day the previous two weeks. At Bonneville Dam the subyearling index averaged almost 50 per day the past two weeks.

**Hatchery Releases** - The Zone Release Report below summarizes releases of juvenile salmonids (species) from State, Federal or Tribal hatcheries or acclimation ponds for the 2005 migration. Releases for hatcheries below Bonneville have been included in the Table. For the 2005 migration season, approximately 83.7 million juvenile fish were released from hatcheries in the river systems located above Bonneville Dam with the remaining released in the Willamette, Cowlitz, and other major tributaries in the lower Columbia River. These totals will be updated and finalized throughout the year. Additional hatchery releases will be completed this fall, with the majority of these fish likely migrating the following year from the tributaries above Bonneville Dam.

Juvenile sockeye were released this month into Pettit, Alturas and Redfish lakes in the upper Salmon River basin and into Lake Wenatchee in the Wenatchee River basin. These sockeye will reside in the lakes and migrate next spring (06). Warm Springs NFH began their normal volitional release of spring Chinook through this month and should reside in the Warm Springs or Deschutes River this fall and winter before migrating out to the ocean in 2006. A volitional release of spring Chinook is on-going from Lookingglass H with the fish eventually residing in the Grande Ronde River basin till the spring migration. A release of spring

Chinook was completed into Newsome Creek in early October; as a point of interest, a few of these fish have been passing Lower Granite this fall.

**Adult Fish Passage** -Water temperatures in the Columbia River (Bonneville to McNary) have continued to reduce through the past two weeks and were near 58-62 F at most projects during the past two weeks.

At Bonneville Dam, numbers of adult fall Chinook salmon ranged from 2,300 to 100 per day during the past two weeks ending October 20th. The season total of 411,992 adult Chinook salmon was 71.2% and 126.7% of the respective 2004 and 10-year average count. Tule fall Chinook and Bright fall Chinook counts at the Bonneville Project can be accessed at the FPC website: [http://www.fpc.org/adultsalmon/adulthistory/bon\\_tule\\_brights2005.html](http://www.fpc.org/adultsalmon/adulthistory/bon_tule_brights2005.html). This information is completed for the 2005 season and was received from WDFW who compiles the information from observation of adult fish passing the count windows at Bonneville Dam. Through October 20th, about 131,900 adult fall Chinook were counted at McNary Dam with the passage of these fish into the Snake and Mid-Columbia as follows: about 14,600 counted into the Snake (Ice Harbor) and 26,200 counted into the Mid-Columbia (Priest Rapids) and 700 counted at Prosser Dam on the Yakima River. The majority of fish passing McNary are destined for the Hanford Reach of the Columbia River located below Priest Rapids Dam. A portion of these fall Chinook will be migrating to Priest Rapids or Ringold hatcheries, both located in the upper reach of the Hanford area of the Mid-Columbia River.

At Bonneville Dam, steelhead counts ranged from 1,800 to about 100 by the end of the reporting week, October 20th. This year's total of 309,994 remained about equal to the 2004 count as well as the 10-year average through October 20th. Upstream at The Dalles Dam, the cumulative steelhead count through October 20th was 236,031, with the count differential between Bonneville and The Dalles Dam now reduced to 74,000, or approximately 76% of the steelhead counted at Bonneville have passed The Dalles

Dam. At McNary Dam, 207,859 steelhead have been counted to date with 147,047 counted into the Snake River (Ice Harbor) and 12,143 counted into the Mid-Columbia River at Priest Rapids Dam. The principal rivers with steelhead between McNary Dam and upstream dams are the Yakima River and the Walla Walla rivers.

The daily counts of coho salmon at Bonneville Dam ranged from 400 to 1,200 for the past two weeks with the cumulative count of 80,044 adult fish through October 20th. This total is less than the 2004 count total but exceeds the 10-year average. Passage of coho has remained fairly strong through the 3-weeks of October. Both The Dalles and John Day projects now exceed 30,000 adult coho for the season with greater than 18,000 above McNary Dam. The upstream rivers such as the Umatilla River, the Yakima River, tributaries of the upper Columbia River and the Snake River will be the recipients of the fish past John Day Dam. About 5,000 adult coho have been counted above Rock Island Dam this season with about 2,000 counted at the Snake River projects.

During the Treaty fall fishery that occurred between Bonneville and McNary dams (Zone 6), reports from harvest indicated that about 92,400 Chinook, 7,700 steelhead, and 2,200 coho were sold to the buyers this season. These numbers are preliminary harvest totals for the 2005 fall season.

**Daily Average Flow and Spill (in kcfs) at Mid-Columbia Projects**

Date	Grand Coulee		Chief Joseph		Wells		Rocky Reach		Rock Island		Wanapum		Priest Rapids	
	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill
10/07/05	71.7	0.0	71.5	0.0	73.7	0.0	76.0	0.0	76.8	0.0	93.3	1.6	93.0	1.0
10/08/05	63.2	0.0	62.5	0.0	63.4	0.0	64.2	0.0	65.0	0.0	77.4	1.5	78.4	1.0
10/09/05	53.5	0.0	53.8	0.0	55.2	0.0	61.9	0.0	63.5	0.0	69.1	1.4	59.5	0.7
10/10/05	109.2	0.0	104.3	0.0	100.8	0.0	101.7	0.0	96.5	0.0	92.3	1.3	94.9	0.8
10/11/05	79.4	0.0	87.7	0.0	88.6	0.0	90.2	0.0	90.8	0.0	92.9	1.7	86.9	1.0
10/12/05	105.0	0.0	97.9	0.0	96.0	0.0	96.5	0.0	95.9	0.0	93.9	1.6	89.9	0.9
10/13/05	109.8	0.0	107.0	0.0	108.3	2.3	109.0	0.0	106.0	0.0	109.4	1.7	107.6	1.1
10/14/05	84.8	0.0	88.7	0.0	89.7	0.0	94.9	0.0	97.1	0.0	105.5	1.6	104.6	1.0
10/15/05	63.5	0.0	65.7	0.0	65.3	0.0	66.9	0.0	68.7	0.0	79.7	1.8	70.7	1.0
10/16/05	49.7	0.0	53.2	0.0	54.3	0.0	56.5	0.0	57.8	0.0	51.4	1.8	48.3	1.2
10/17/05	82.3	0.0	78.3	0.0	77.1	0.0	80.2	0.0	81.6	0.0	99.3	1.6	95.2	0.9
10/18/05	74.0	0.0	74.2	0.0	76.0	0.0	76.8	0.0	76.9	0.0	89.9	1.1	90.2	0.9
10/19/05	84.1	0.0	85.9	0.0	81.7	3.0	79.8	0.0	79.9	0.0	89.8	0.9	87.7	0.7
10/20/05	78.9	0.0	82.2	0.0	84.0	0.0	86.3	0.0	87.9	0.0	96.8	0.8	87.5	0.6

**Daily Average Flow and Spill (in kcfs) at Snake Basin Projects**

Date	Dworshak		Brownlee Canyon		Hells Granite		Lower Granite		Little Goose		Lower Monumental		Ice Harbor	
	Flow	Spill	Inflow	Outflow	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill
10/07/05	1.6	0.0	12.4	14.5	21.7	0.0	20.2	0.0	20.4	0.0	20.4	0.0	18.9	0.0
10/08/05	1.6	0.0	8.6	8.6	23.4	0.0	25.1	0.0	27.1	0.0	27.1	0.0	26.0	0.0
10/09/05	1.6	0.0	11.9	10.0	14.8	0.0	14.6	0.0	14.9	0.0	14.9	0.0	13.7	0.0
10/10/05	1.6	0.0	11.2	8.9	18.6	0.0	18.4	0.0	19.0	0.0	19.0	0.0	19.1	0.0
10/11/05	1.6	0.0	11.4	8.7	15.2	0.0	15.4	0.0	16.1	0.0	16.1	0.0	14.7	0.0
10/12/05	1.6	0.0	11.2	8.7	13.5	0.0	13.4	0.0	13.8	0.0	13.8	0.0	13.3	0.0
10/13/05	1.6	0.0	11.1	8.7	17.8	0.0	15.4	0.0	15.6	0.0	15.6	0.0	15.1	0.0
10/14/05	1.6	0.0	11.1	8.7	16.6	0.0	17.3	0.0	17.9	0.0	17.9	0.0	17.8	0.0
10/15/05	1.6	0.0	11.1	8.8	13.1	0.0	12.9	0.0	13.4	0.0	13.4	0.0	13.3	0.0
10/16/05	1.6	0.0	10.8	8.8	16.7	0.0	17.1	0.0	17.3	0.0	17.3	0.0	16.9	0.0
10/17/05	1.6	0.0	10.1	8.7	17.6	0.0	17.5	0.0	18.2	0.0	18.2	0.0	15.3	0.0
10/18/05	1.6	0.0	10.6	8.7	14.6	0.0	14.8	0.0	15.4	0.0	15.4	0.0	15.7	0.0
10/19/05	1.6	0.0	10.2	8.7	14.9	0.0	14.4	0.0	14.8	0.0	14.8	0.0	14.2	0.0
10/20/05	1.6	0.0	11.1	8.7	15.2	0.0	16.0	0.0	16.1	0.0	16.1	0.0	17.4	0.0

**Daily Average Flow and Spill (in kcfs) at Lower Columbia Projects**

Date	McNary		John Day		The Dalles		Bonneville		PH1	PH2
	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill		
10/07/05	126.2	0.0	123.3	0.8	124.5	0.0	122.0	1.3	44.8	69.1
10/08/05	104.9	0.0	99.1	0.8	99.6	0.0	118.4	1.3	43.7	66.6
10/09/05	96.0	0.0	95.4	0.8	99.0	0.0	107.4	1.2	36.2	63.2
10/10/05	105.1	0.0	106.3	0.8	106.4	0.0	120.0	1.1	41.5	70.6
10/11/05	96.4	0.0	116.9	0.8	119.5	0.0	109.1	1.2	53.4	47.7
10/12/05	113.1	0.0	108.3	0.8	110.0	0.0	117.9	1.3	51.0	58.8
10/13/05	109.4	0.0	101.0	0.8	102.0	0.0	109.3	1.3	39.5	61.8
10/14/05	118.2	0.0	110.9	0.8	109.6	0.0	113.4	1.2	28.8	76.7
10/15/05	119.4	0.0	110.6	0.8	108.1	0.0	109.4	1.3	30.0	71.4
10/16/05	62.1	0.0	62.4	0.8	67.3	0.0	90.9	1.3	10.3	71.0
10/17/05	96.5	0.0	88.7	0.8	88.9	0.0	90.2	1.1	7.7	74.5
10/18/05	114.5	0.0	127.1	0.7	129.8	0.0	123.2	1.3	34.6	80.4
10/19/05	119.8	0.0	111.5	0.7	114.4	0.0	122.8	1.2	35.4	79.4
10/20/05	106.5	0.0	118.5	0.7	113.2	0.0	114.8	1.2	27.8	80.5

## Total Dissolved Gas Saturation (%) - Average of 12 Highest Hours, 24 h Average and 24 h High

**Total Dissolved Gas Saturation Data at Upper Columbia River Sites**

Date	<u>Hungry H. Dnst</u>			<u>Boundary</u>			<u>Grand Coulee</u>			<u>Grand C. Tlwr</u>			<u>Chief Joseph</u>							
	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</u>				
	<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>						
10/7	---	---	---	0	102	103	103	24	101	101	101	11	99	100	102	24	99	99	100	10
10/8	---	---	---	0	102	103	104	24	101	101	101	24	99	100	100	24	100	100	100	24
10/9	---	---	---	0	101	102	102	24	100	100	100	24	98	99	100	24	99	99	99	24
10/10	---	---	---	0	102	102	103	24	100	100	100	24	99	99	100	24	99	99	99	24
10/11	---	---	---	0	102	102	102	11	100	100	100	12	98	98	99	11	99	99	99	12
10/12	---	---	---	0	101	102	102	19	100	100	100	20	98	99	102	19	99	100	100	24
10/13	---	---	---	0	102	102	103	24	100	100	100	24	99	99	103	24	99	99	100	24
10/14	---	---	---	0	102	103	103	24	101	101	102	24	99	99	101	24	99	100	100	24
10/15	---	---	---	0	102	103	104	24	101	101	102	24	99	100	100	24	100	100	100	24
10/16	---	---	---	0	102	102	103	24	100	100	100	24	98	99	100	24	99	99	100	24
10/17	---	---	---	0	102	102	103	24	100	101	101	24	99	99	100	24	99	99	100	24
10/18	---	---	---	0	102	102	103	24	100	100	100	24	98	99	100	24	99	99	100	17
10/19	---	---	---	0	102	102	103	24	100	100	100	24	98	99	99	24	99	99	100	24
10/20	---	---	---	0	102	102	102	22	99	99	100	23	97	98	99	22	99	99	99	22

**Total Dissolved Gas Saturation Data at Mid Columbia River Sites**

Date	<u>Chief J. Dnst</u>			<u>Wells</u>			<u>Wells Dwnstrm</u>			<u>Rocky Reach</u>			<u>Rocky R. Tlwr</u>							
	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</u>				
	<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>						
10/7	100	100	101	10	---	---	---	0	---	---	---	0	102	102	102	24	103	103	103	24
10/8	101	102	103	24	---	---	---	0	---	---	---	0	102	102	102	24	103	103	103	24
10/9	100	100	102	24	---	---	---	0	---	---	---	0	102	102	102	24	103	103	103	24
10/10	99	100	102	23	---	---	---	0	---	---	---	0	102	102	102	24	103	103	103	24
10/11	100	100	102	9	---	---	---	0	---	---	---	0	102	102	102	11	103	103	103	11
10/12	101	101	102	24	---	---	---	0	---	---	---	0	100	102	102	24	100	102	103	24
10/13	100	101	102	24	---	---	---	0	---	---	---	0	98	98	99	24	99	99	99	24
10/14	101	101	102	24	---	---	---	0	---	---	---	0	99	99	100	24	99	100	100	24
10/15	100	101	102	24	---	---	---	0	---	---	---	0	99	99	100	24	100	100	100	24
10/16	100	101	102	23	---	---	---	0	---	---	---	0	99	100	100	24	100	100	100	24
10/17	100	100	101	24	---	---	---	0	---	---	---	0	99	99	100	24	100	100	100	24
10/18	100	100	102	17	---	---	---	0	---	---	---	0	99	99	99	24	99	99	100	24
10/19	100	100	101	24	---	---	---	0	---	---	---	0	99	99	99	24	99	99	100	24
10/20	100	101	102	22	---	---	---	0	---	---	---	0	98	98	99	20	98	99	99	20

**Total Dissolved Gas Saturation at Mid Columbia River Sites**

Date	<u>Rock Island</u>			<u>Rock I. Tlwr</u>			<u>Wanapum</u>			<u>Wanapum Tlwr</u>			<u>Priest Rapids</u>							
	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</u>				
	<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>						
10/7	102	102	102	24	102	102	102	24	---	---	---	0	---	---	---	0	---	---	---	0
10/8	102	102	102	24	102	102	102	24	---	---	---	0	---	---	---	0	---	---	---	0
10/9	102	102	102	24	102	102	102	24	---	---	---	0	---	---	---	0	---	---	---	0
10/10	102	102	102	24	102	102	102	24	---	---	---	0	---	---	---	0	---	---	---	0
10/11	102	102	102	11	102	102	102	11	---	---	---	0	---	---	---	0	---	---	---	0
10/12	100	101	102	24	100	102	102	24	---	---	---	0	---	---	---	0	---	---	---	0
10/13	99	99	100	24	99	99	100	24	---	---	---	0	---	---	---	0	---	---	---	0
10/14	99	100	100	24	100	100	101	24	---	---	---	0	---	---	---	0	---	---	---	0
10/15	99	100	100	24	100	100	101	24	---	---	---	0	---	---	---	0	---	---	---	0
10/16	99	99	99	24	99	100	100	24	---	---	---	0	---	---	---	0	---	---	---	0
10/17	101	101	102	24	101	101	102	24	---	---	---	0	---	---	---	0	---	---	---	0
10/18	99	100	100	24	100	100	100	24	---	---	---	0	---	---	---	0	---	---	---	0
10/19	99	99	100	24	100	100	100	24	---	---	---	0	---	---	---	0	---	---	---	0
10/20	99	99	99	20	99	99	100	20	---	---	---	0	---	---	---	0	---	---	---	0

## Total Dissolved Gas Saturation (%) - Average of 12 Highest Hours, 24 h Average and 24 h High

### Total Dissolved Gas Saturation Data at Lower Columbia and Snake River Sites

Date	<u>Priest R. Dnst</u>			<u>Pasco</u>			<u>Dworshak</u>			<u>Clrwtr-Peck</u>			<u>Anatone</u>			#				
	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#					
	Avg	Avg		High	Avg		Avg	High		Avg	Avg		High	Avg			Avg	High	Avg	Avg
10/7	---	---	---	0	---	---	---	0	104	104	104	9	100	100	101	9	---	---	---	0
10/8	---	---	---	0	---	---	---	0	106	107	108	24	102	103	105	24	---	---	---	0
10/9	---	---	---	0	---	---	---	0	105	106	106	24	101	103	104	24	---	---	---	0
10/10	---	---	---	0	---	---	---	0	105	106	107	24	101	103	105	24	---	---	---	0
10/11	---	---	---	0	---	---	---	0	105	105	105	9	100	100	101	9	---	---	---	0
10/12	---	---	---	0	---	---	---	0	104	104	105	24	102	104	105	24	---	---	---	0
10/13	---	---	---	0	---	---	---	0	103	104	104	24	101	102	104	24	---	---	---	0
10/14	---	---	---	0	---	---	---	0	104	105	106	24	102	104	105	24	---	---	---	0
10/15	---	---	---	0	---	---	---	0	104	105	106	24	101	103	104	24	---	---	---	0
10/16	---	---	---	0	---	---	---	0	103	104	105	24	101	104	105	24	---	---	---	0
10/17	---	---	---	0	---	---	---	0	105	106	107	24	102	104	106	24	---	---	---	0
10/18	---	---	---	0	---	---	---	0	105	106	107	24	102	104	105	24	---	---	---	0
10/19	---	---	---	0	---	---	---	0	105	105	106	24	101	102	103	24	---	---	---	0
10/20	---	---	---	0	---	---	---	0	104	105	106	23	101	103	104	23	---	---	---	0

### Total Dissolved Gas Saturation Data at Snake River Sites

Date	<u>Clrwtr-Lewiston</u>			<u>Lower Granite</u>			<u>L. Granite Tlwr</u>			<u>Little Goose</u>			<u>L. Goose Tlwr</u>			#				
	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#					
	Avg	Avg		High	Avg		Avg	High		Avg	Avg		High	Avg			Avg	High	Avg	Avg
10/7	---	---	---	0	97	97	97	9	97	97	98	9	---	---	---	0	---	---	---	0
10/8	---	---	---	0	97	97	97	24	97	97	98	24	---	---	---	0	---	---	---	0
10/9	---	---	---	0	96	96	97	24	95	96	97	23	---	---	---	0	---	---	---	0
10/10	---	---	---	0	96	97	98	24	96	96	97	24	---	---	---	0	---	---	---	0
10/11	---	---	---	0	97	97	97	9	96	96	97	9	---	---	---	0	---	---	---	0
10/12	---	---	---	0	97	98	98	24	97	98	99	24	---	---	---	0	---	---	---	0
10/13	---	---	---	0	97	97	97	24	96	97	98	24	---	---	---	0	---	---	---	0
10/14	---	---	---	0	98	99	100	24	98	98	100	24	---	---	---	0	---	---	---	0
10/15	---	---	---	0	98	98	99	24	97	98	99	24	---	---	---	0	---	---	---	0
10/16	---	---	---	0	97	97	98	24	97	97	97	24	---	---	---	0	---	---	---	0
10/17	---	---	---	0	98	99	99	24	98	98	99	24	---	---	---	0	---	---	---	0
10/18	---	---	---	0	98	99	100	24	98	98	99	24	---	---	---	0	---	---	---	0
10/19	---	---	---	0	98	98	100	24	98	99	100	24	---	---	---	0	---	---	---	0
10/20	---	---	---	0	97	97	97	23	97	97	99	23	---	---	---	0	---	---	---	0

### Total Dissolved Gas Saturation Data at Snake and Lower Columbia River Sites

Date	<u>Lower Mon.</u>			<u>L. Mon. Tlwr</u>			<u>Ice Harbor</u>			<u>Ice Harbor Tlwr</u>			<u>McNary-Oregon</u>			#				
	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#					
	Avg	Avg		High	Avg		Avg	High		Avg	Avg		High	Avg			Avg	High	Avg	Avg
10/7	---	---	---	0	---	---	---	0	97	97	97	9	98	98	99	9	99	99	99	9
10/8	---	---	---	0	---	---	---	0	97	97	97	24	98	98	99	24	100	100	102	24
10/9	---	---	---	0	---	---	---	0	96	96	97	17	98	98	99	24	99	100	101	24
10/10	---	---	---	0	---	---	---	0	97	97	97	1	98	99	100	24	99	100	102	24
10/11	---	---	---	0	---	---	---	0	---	---	---	0	98	98	99	9	99	99	100	9
10/12	---	---	---	0	---	---	---	0	97	97	98	24	98	99	100	24	99	100	100	24
10/13	---	---	---	0	---	---	---	0	97	98	98	24	99	99	102	24	98	99	99	24
10/14	---	---	---	0	---	---	---	0	98	98	99	16	99	100	101	24	100	101	102	24
10/15	---	---	---	0	---	---	---	0	---	---	---	0	99	99	100	24	100	100	100	24
10/16	---	---	---	0	---	---	---	0	---	---	---	0	98	98	99	24	98	99	99	24
10/17	---	---	---	0	---	---	---	0	98	98	99	15	99	100	100	24	99	100	100	24
10/18	---	---	---	0	---	---	---	0	98	98	98	24	99	100	101	24	100	101	102	24
10/19	---	---	---	0	---	---	---	0	98	98	98	23	101	103	137	24	99	100	100	24
10/20	---	---	---	0	---	---	---	0	97	97	97	15	98	99	99	23	99	99	100	23

## Total Dissolved Gas Saturation (%) - Average of 12 Highest Hours, 24 h Average and 24 h High

### Total Dissolved Gas Saturation Data at Lower Columbia River Sites

Date	<u>McNary-Wash</u>			#	<u>McNary Tlwr</u>			#	<u>John Day</u>			#	<u>John Day Tlwr</u>			#	<u>The Dalles</u>			#
	<u>24 h</u>	<u>12 h</u>			<u>24 h</u>	<u>12 h</u>			<u>24h</u>	<u>12h</u>			<u>24h</u>	<u>12h</u>			<u>24h</u>	<u>12h</u>		
	Avg	Avg	High		Avg	Avg	High		Avg	Avg	High		Avg	Avg	High		Avg	Avg	High	
10/7	99	99	100	9	99	99	99	9	---	---	---	0	---	---	---	0	---	---	---	0
10/8	100	100	100	24	100	100	100	24	---	---	---	0	---	---	---	0	---	---	---	0
10/9	99	100	100	24	99	99	100	24	---	---	---	0	---	---	---	0	---	---	---	0
10/10	100	100	100	24	100	100	100	24	---	---	---	0	---	---	---	0	---	---	---	0
10/11	100	100	100	9	99	99	100	9	---	---	---	0	---	---	---	0	---	---	---	0
10/12	99	99	99	24	99	99	99	24	---	---	---	0	---	---	---	0	---	---	---	0
10/13	99	99	100	24	99	99	100	24	---	---	---	0	---	---	---	0	---	---	---	0
10/14	101	101	102	24	100	101	102	24	---	---	---	0	---	---	---	0	---	---	---	0
10/15	100	101	102	24	100	100	101	24	---	---	---	0	---	---	---	0	---	---	---	0
10/16	99	99	99	24	99	99	99	24	---	---	---	0	---	---	---	0	---	---	---	0
10/17	99	100	100	24	99	100	100	24	---	---	---	0	---	---	---	0	---	---	---	0
10/18	100	100	101	24	110	119	143	24	---	---	---	0	---	---	---	0	---	---	---	0
10/19	100	100	100	24	117	135	144	24	---	---	---	0	---	---	---	0	---	---	---	0
10/20	98	98	99	23	98	99	99	23	---	---	---	0	---	---	---	0	---	---	---	0

### Total Dissolved Gas Saturation Data at Lower Columbia River Sites

Date	<u>The Dalles Dnst</u>			#	<u>Bonneville</u>			#	<u>Warrendale</u>			#	<u>Camas\Washougal</u>			#	<u>Cascade Island</u>			#
	<u>24 h</u>	<u>12 h</u>			<u>24 h</u>	<u>12 h</u>			<u>24h</u>	<u>12h</u>			<u>24h</u>	<u>12h</u>			<u>24h</u>	<u>12h</u>		
	Avg	Avg	High		Avg	Avg	High		Avg	Avg	High		Avg	Avg	High		Avg	Avg	High	
10/7	---	---	---	0	99	99	99	7	101	101	101	7	---	---	---	0	---	---	---	0
10/8	---	---	---	0	99	99	100	23	101	101	102	23	---	---	---	0	---	---	---	0
10/9	---	---	---	0	98	98	99	23	100	100	101	23	---	---	---	0	---	---	---	0
10/10	---	---	---	0	98	99	99	23	100	100	100	23	---	---	---	0	---	---	---	0
10/11	---	---	---	0	99	99	99	11	99	99	100	11	---	---	---	0	---	---	---	0
10/12	---	---	---	0	99	99	99	23	100	101	101	23	---	---	---	0	---	---	---	0
10/13	---	---	---	0	99	99	99	23	100	101	101	23	---	---	---	0	---	---	---	0
10/14	---	---	---	0	99	100	100	23	101	102	102	23	---	---	---	0	---	---	---	0
10/15	---	---	---	0	99	100	100	23	101	101	102	23	---	---	---	0	---	---	---	0
10/16	---	---	---	0	98	99	99	23	100	101	101	23	---	---	---	0	---	---	---	0
10/17	---	---	---	0	99	99	100	23	101	101	102	23	---	---	---	0	---	---	---	0
10/18	---	---	---	0	100	100	100	23	101	102	102	23	---	---	---	0	---	---	---	0
10/19	---	---	---	0	99	100	100	23	101	101	101	23	---	---	---	0	---	---	---	0
10/20	---	---	---	0	99	99	99	23	100	101	101	23	---	---	---	0	---	---	---	0

### HATCHERY RELEASE LAST TWO WEEKS

Hatchery Release Summary

From: 10/7/2005 to 10/20/05

Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
Nez Perce Tribe	Nez Perce Tribal Hatchery	CH1	SP	2006	79,000	10-04-05	10-10-05	Newsome Creek	S Fk Clearwater River
<b>Nez Perce Tribe Total</b>					<b>79,000</b>				
Oregon Dept. of Fish and Wildlife	Lookingglass Hatchery	CH1	SP	2006	73,731	09-12-05	11-30-05	Lookingglass Hatchery	Grande Ronde River
<b>Oregon Dept. of Fish and Wildlife Total</b>					<b>73,731</b>				
U.S. Fish and Wildlife Service	Warm Springs NFH	CH1	SP	2006	50,000	10-10-05	11-16-05	Warm Springs Hatchery	Deschutes River
<b>U.S. Fish and Wildlife Service Total</b>					<b>50,000</b>				
Washington Dept. of Fish and Wildlife	Eastbank Hatchery	SO	UN	2006	91,800	10-17-05	10-31-05	Lake Wenatchee	Wenatchee River
<b>Washington Dept. of Fish and Wildlife Total</b>					<b>91,800</b>				
<b>Grand Total</b>					<b>294,531</b>				

### HATCHERY RELEASE NEXT TWO WEEKS

Hatchery Release Summary

From: 10/21/2005 to 11/3/2005

Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
Oregon Dept. of Fish and Wildlife	Lookingglass Hatchery	CH1	SP	2006	73,731	09-12-05	11-30-05	Lookingglass H	Grande Ronde R
<b>Oregon Dept. of Fish and Wildlife Total</b>					<b>73,731</b>				
U.S. Fish and Wildlife Service	Warm Springs NFH	CH1	SP	2006	50,000	10-10-05	11-16-05	Warm Springs H	Deschutes River
<b>U.S. Fish and Wildlife Service Total</b>					<b>50,000</b>				
Washington Dept. of Fish and Wildlife	Eastbank Hatchery	SO	UN	2006	91,800	10-17-05	10-31-05	Lake Wenatchee	Wenatchee River
<b>Washington Dept. of Fish and Wildlife Total</b>					<b>91,800</b>				
<b>Grand Total</b>					<b>215,531</b>				



## Two-Week Summary of Passage Indices

\* One or more of the sites on this date had an incomplete or biased sample.

See Sampling Comments: <http://www.fpc.org/currentDaily/smpcomments.htm>

For clip information see: <http://www.fpc.org/CurrentDaily/catch.htm>

For sockeye and yearling chinook (Snake only) race information see: <http://www.fpc.org/smoltqueries/currentsmpsubmitdata.asp>

<b>COMBINED YEARLING CHINOOK</b>											
	WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2
Date	(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)
10/07/2005	---	---	---	---	34	0	---	---	---	---	0
10/08/2005	---	---	---	---	137	0	---	---	---	---	0
10/09/2005	---	---	---	---	241	0	---	---	---	---	0
10/10/2005	---	---	---	---	234	0	---	---	---	---	0
10/11/2005	---	---	---	---	264	0	---	---	---	---	0
10/12/2005	---	---	---	---	341	0	---	---	---	---	0
10/13/2005 *	---	---	---	---	212	0	---	---	---	---	0
10/14/2005	---	---	---	---	112	0	---	---	---	---	0
10/15/2005 *	---	---	---	---	28	0	---	---	---	---	0
10/16/2005	---	---	---	---	115	0	---	---	---	---	0
10/17/2005	---	---	---	---	52	0	---	---	---	---	0
10/18/2005	---	---	---	---	38	1	---	---	---	---	0
10/19/2005	---	---	---	---	17	2	---	---	---	---	0
10/20/2005	---	---	---	---	33	2	---	---	---	---	0
10/21/2005	---	---	---	---	58	1	---	---	---	---	0
<hr/>											
<b>Total:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,916</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b># Days:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>15</b>	<b>15</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>15</b>
<b>Average:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>128</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>YTD</b>	<b>43,641</b>	<b>42,830</b>	<b>5,792</b>	<b>1,810</b>	<b>5,675,806</b>	<b>2,475,811</b>	<b>706,772</b>	<b>14,579</b>	<b>1,219,870</b>	<b>1,409,478</b>	<b>1,527,240</b>

<b>COMBINED SUBYEARLING CHINOOK</b>											
	WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2
Date	(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)
10/07/2005	---	---	---	---	48	25	---	---	---	---	154
10/08/2005	---	---	---	---	116	16	---	---	---	---	86
10/09/2005	---	---	---	---	225	24	---	---	---	---	98
10/10/2005	---	---	---	---	303	34	---	---	---	---	49
10/11/2005	---	---	---	---	247	56	---	---	---	---	70
10/12/2005	---	---	---	---	189	42	---	---	---	---	17
10/13/2005 *	---	---	---	---	268	47	---	---	---	---	7
10/14/2005	---	---	---	---	256	57	---	---	---	---	79
10/15/2005 *	---	---	---	---	232	184	---	---	---	---	52
10/16/2005	---	---	---	---	341	201	---	---	---	---	36
10/17/2005	---	---	---	---	229	178	---	---	---	---	28
10/18/2005	---	---	---	---	172	54	---	---	---	---	28
10/19/2005	---	---	---	---	175	29	---	---	---	---	25
10/20/2005	---	---	---	---	316	69	---	---	---	---	34
10/21/2005	---	---	---	---	212	39	---	---	---	---	27
<hr/>											
<b>Total:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3,329</b>	<b>1,055</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>790</b>
<b># Days:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>15</b>	<b>15</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>15</b>
<b>Average:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>222</b>	<b>70</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>53</b>
<b>YTD</b>	<b>0</b>	<b>86</b>	<b>1,224</b>	<b>1,152</b>	<b>1,753,229</b>	<b>1,286,706</b>	<b>207,820</b>	<b>22,160</b>	<b>6,841,668</b>	<b>2,300,846</b>	<b>3,821,381</b>

## Two-Week Summary of Passage Indices

COMBINED COHO											
	WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2
Date	(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)
10/07/2005	---	---	---	---	0	0	---	---	---	---	0
10/08/2005	---	---	---	---	0	0	---	---	---	---	0
10/09/2005	---	---	---	---	0	0	---	---	---	---	0
10/10/2005	---	---	---	---	1	0	---	---	---	---	0
10/11/2005	---	---	---	---	0	0	---	---	---	---	0
10/12/2005	---	---	---	---	0	0	---	---	---	---	0
10/13/2005	*	---	---	---	0	0	---	---	---	---	0
10/14/2005	---	---	---	---	0	0	---	---	---	---	0
10/15/2005	*	---	---	---	0	0	---	---	---	---	0
10/16/2005	---	---	---	---	0	0	---	---	---	---	0
10/17/2005	---	---	---	---	0	0	---	---	---	---	0
10/18/2005	---	---	---	---	0	0	---	---	---	---	0
10/19/2005	---	---	---	---	0	0	---	---	---	---	0
10/20/2005	---	---	---	---	0	0	---	---	---	---	0
10/21/2005	---	---	---	---	0	0	---	---	---	---	0
<hr/>											
<b>Total:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b># Days:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>15</b>	<b>15</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>15</b>
<b>Average:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>YTD</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>110</b>	<b>305,073</b>	<b>191,700</b>	<b>24,371</b>	<b>35,644</b>	<b>102,587</b>	<b>192,563</b>	<b>771,264</b>

COMBINED STEELHEAD											
	WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2
Date	(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)
10/07/2005	---	---	---	---	0	0	---	---	---	---	0
10/08/2005	---	---	---	---	0	0	---	---	---	---	0
10/09/2005	---	---	---	---	0	1	---	---	---	---	0
10/10/2005	---	---	---	---	1	1	---	---	---	---	0
10/11/2005	---	---	---	---	0	0	---	---	---	---	0
10/12/2005	---	---	---	---	0	0	---	---	---	---	0
10/13/2005	*	---	---	---	0	0	---	---	---	---	0
10/14/2005	---	---	---	---	0	0	---	---	---	---	0
10/15/2005	*	---	---	---	0	1	---	---	---	---	0
10/16/2005	---	---	---	---	0	0	---	---	---	---	0
10/17/2005	---	---	---	---	0	0	---	---	---	---	0
10/18/2005	---	---	---	---	0	0	---	---	---	---	0
10/19/2005	---	---	---	---	0	0	---	---	---	---	0
10/20/2005	---	---	---	---	1	0	---	---	---	---	0
10/21/2005	---	---	---	---	0	0	---	---	---	---	0
<hr/>											
<b>Total:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b># Days:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>15</b>	<b>15</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>15</b>
<b>Average:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>YTD</b>	<b>3,754</b>	<b>35,536</b>	<b>2,454</b>	<b>7,263</b>	<b>5,935,714</b>	<b>2,921,855</b>	<b>675,548</b>	<b>15,661</b>	<b>196,098</b>	<b>526,637</b>	<b>186,565</b>

## Two-Week Summary of Passage Indices

COMBINED SOCKEYE											
	WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2
Date	(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)
10/07/2005	---	---	---	---	3	0	---	---	---	---	0
10/08/2005	---	---	---	---	0	1	---	---	---	---	0
10/09/2005	---	---	---	---	2	0	---	---	---	---	0
10/10/2005	---	---	---	---	1	0	---	---	---	---	0
10/11/2005	---	---	---	---	0	0	---	---	---	---	0
10/12/2005	---	---	---	---	0	0	---	---	---	---	0
10/13/2005	*	---	---	---	0	0	---	---	---	---	0
10/14/2005	---	---	---	---	4	0	---	---	---	---	0
10/15/2005	*	---	---	---	0	0	---	---	---	---	0
10/16/2005	---	---	---	---	1	0	---	---	---	---	0
10/17/2005	---	---	---	---	0	2	---	---	---	---	0
10/18/2005	---	---	---	---	0	0	---	---	---	---	0
10/19/2005	---	---	---	---	0	0	---	---	---	---	0
10/20/2005	---	---	---	---	1	0	---	---	---	---	0
10/21/2005	---	---	---	---	0	0	---	---	---	---	0
<hr/>											
<b>Total:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>12</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b># Days:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>15</b>	<b>15</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>15</b>
<b>Average:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>YTD</b>	<b>115</b>	<b>0</b>	<b>0</b>	<b>263</b>	<b>38,471</b>	<b>41,367</b>	<b>8,218</b>	<b>1,964</b>	<b>103,814</b>	<b>84,483</b>	<b>41,903</b>

\* See sampling comments <http://www.fpc.org/currentDaily/smpcomments.htm>

Smolt indices, clipped & unclipped or combined, are presented in the following order: yearling chinook (chinook 1's,) subyearling chinook (chinook 0's), steelhead, coho, and sockeye. Two classes of fish counts are shown in these tables: collection counts, which account for sample rates but are not adjusted for flow; and passage indices, which are collection counts divided by the proportion of water passing through the sampled powerhouse. Passage indices are not population estimates, but are used to adjust collection counts for daily fluctuations in the site's or project's operations. The classes of counts presented in the report are defined below for each site. Most samples occur over a 24-hr period that spans two calendar days. In this report, the date shown corresponds with the sample end date.

### Definitions for Smolt Index Counts

- WTB (Collection) = Salmon River Trap at Whitebird : Collection Counts
- IMN (Collection) = Imnaha River Trap : Collection Counts
- GRN (Collection) = Grande Ronde River Trap : Collection Counts
- LEW (Collection) = Snake River Trap at Lewiston : Collection Counts
- LGR (Index) = Lower Granite Dam Bypass Collection System : Passage Index Counts  
 $\text{Passage Index} = \text{Collection Counts} / \{ \text{Powerhouse Flow} / (\text{Powerhouse Flow} + \text{Spill}) \}$
- LGS (Index) = Little Goose Bypass Collection System : Passage Index Counts  
 $\text{Passage Index} = \text{Collection Counts} / \{ \text{Powerhouse Flow} / (\text{Powerhouse Flow} + \text{Spill}) \}$
- LMN (Index) = Lower Monumental Dam Bypass Collection System : Passage Index Counts  
 $\text{Passage Index} = \text{Collection Counts} / \{ \text{Powerhouse Flow} / (\text{Powerhouse Flow} + \text{Spill}) \}$
- RIS (Index) = Rock Island Dam Second Powerhouse Bypass Trap : Passage Index Counts  
 $\text{Passage Index} = \text{Collection Counts} / \{ \text{Powerhouse 2 Flow} / (\text{Powerhouse 1 \& 2 Flow} + \text{Spill}) \}$
- MCN (Index) = McNary Dam Bypass Collection System : Passage Index Counts  
 $\text{Passage Index} = \text{Collection Counts} / \{ \text{Powerhouse Flow} / (\text{Powerhouse Flow} + \text{Spill}) \}$
- JDA (Index) = John Day Dam Bypass Collection System : Passage Index Counts  
 $\text{Passage Index} = \text{Collection Counts} / \{ \text{Powerhouse Flow} / (\text{Powerhouse Flow} + \text{Spill}) \}$
- BO2 (Index) = Bonneville Dam Second Powerhouse Bypass Collection System : Passage Index Counts  
 $\text{Passage Index} = \text{Collection Counts} / \{ \text{Powerhouse 2 Flow} / (\text{Powerhouse 1 \& 2 Flow} + \text{Spill}) \}$

JDA and BO2 data collected for the FPC by Pacific States Marine Fisheries Commission.  
 RIS data collected for the FPC by Chelan Co. PUD/Washington Dept. of Fish and Wildlife.  
 LGR, LMN, and MCN data collected for the FPC by Washington Dept. of Fish and Wildlife.  
 LGS and GRN data collected for the FPC by Oregon Dept. of Fish and Wildlife.  
 IMN data collected for the FPC by the Nez Perce Tribe.

### Two Week Transportation Summary

Source: Fish Passage Center

Updated:

10/21/05 10:49 AM

		10/08/05	TO	10/21/05				
Site	Data	Species					Grand Total	
		CH0	CH1	CO	SO	ST		
<b>LGR</b>	Sum of NumberCollected	3,329	1,916		1	12	2	5,260
	Sum of NumberBarged	0	0		0	0	0	0
	Sum of NumberBypassed	1	0		0	0	0	1
	Sum of Numbertrucked	3,336	1,929		1	12	3	5,281
	Sum of SampleMorts	22	7		0	0	0	29
	Sum of FacilityMorts	1	0		0	0	0	1
	Sum of ResearchMorts	0	0		0	0	0	0
	Sum of TotalProjectMorts	23	7		0	0	0	30
<b>LGS</b>	Sum of NumberCollected	1,055	6			3	3	1,067
	Sum of NumberBarged	0	0			0	0	0
	Sum of NumberBypassed	0	0			1	0	1
	Sum of Numbertrucked	1,072	6			2	4	1,084
	Sum of SampleMorts	1	0			0	0	1
	Sum of FacilityMorts	2	0			0	0	2
	Sum of ResearchMorts	0	0			0	0	0
	Sum of TotalProjectMorts	3	0			0	0	3
Total Sum of NumberCollected		4,384	1,922		1	15	5	6,327
Total Sum of NumberBarged		0	0		0	0	0	0
Total Sum of NumberBypassed		1	0		0	1	0	2
Total Sum of Numbertrucked		4,408	1,935		1	14	7	6,365
Total Sum of SampleMorts		23	7		0	0	0	30
Total Sum of FacilityMorts		3	0		0	0	0	3
Total Sum of ResearchMorts		0	0		0	0	0	0
Total Sum of TotalProjectMorts		26	7		0	0	0	33

**YTD Transportation Summary**

Source: Fish Passage Center

Updated: 10/21/05 10:49 AM

TO: 10/21/05

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
<b>LGR</b>	Sum of NumberCollected	1,579,325	5,539,331	286,019	31,647	5,590,787	13,027,109
	Sum of NumberBarged	1,546,272	5,235,734	257,640	30,286	5,094,008	12,163,940
	Sum of NumberBypassed	13,115	278,605	26,286	490	448,422	766,918
	Sum of NumberTrucked	7,348	10,823	883	513	43,023	62,590
	Sum of SampleMorts	498	460	16	16	72	1,062
	Sum of FacilityMorts	11,999	13,606	1,194	342	5,260	32,401
	Sum of ResearchMorts	93	103	0	0	2	198
	Sum of TotalProjectMorts	12,590	14,169	1,210	358	5,334	33,661
<b>LGS</b>	Sum of NumberCollected	1,196,720	2,451,021	185,964	38,770	2,857,094	6,729,569
	Sum of NumberBarged	1,135,687	2,015,575	151,226	37,716	2,276,699	5,616,903
	Sum of NumberBypassed	50,486	428,573	34,636	939	571,467	1,086,101
	Sum of NumberTrucked	6,992	258	16	50	454	7,770
	Sum of SampleMorts	252	128	12	6	74	472
	Sum of FacilityMorts	3,172	6,467	75	59	8,396	18,169
	Sum of ResearchMorts	0	20	0	0	0	20
	Sum of TotalProjectMorts	3,424	6,615	87	65	8,470	18,661
<b>LMN</b>	Sum of NumberCollected	177,812	670,864	21,563	7,346	614,133	1,491,718
	Sum of NumberBarged	168,777	512,012	17,036	7,156	456,619	1,161,600
	Sum of NumberBypassed	7,510	145,571	4,521	99	154,901	312,602
	Sum of NumberTrucked	1,064	12,717	4	62	2,259	16,106
	Sum of SampleMorts	145	40	0	3	26	214
	Sum of FacilityMorts	316	524	2	26	328	1,196
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	461	564	2	29	354	1,410
<b>MCN</b>	Sum of NumberCollected	4,169,117	718,260	60,522	60,174	119,228	5,127,301
	Sum of NumberBarged	2,877,055	17,125	931	1,075	5,462	2,901,648
	Sum of NumberBypassed	1,240,750	698,213	59,402	58,689	113,376	2,170,430
	Sum of NumberTrucked	25,935	0	2	28	4	25,969
	Sum of SampleMorts	801	117	8	18	8	952
	Sum of FacilityMorts	24,442	2,729	173	352	375	28,071
	Sum of ResearchMorts	134	76	6	12	3	231
	Sum of TotalProjectMorts	25,377	2,922	187	382	386	29,254
Total Sum of NumberCollected		7,122,974	9,379,476	554,068	137,937	9,181,242	26,375,697
Total Sum of NumberBarged		5,727,791	7,780,446	426,833	76,233	7,832,788	21,844,091
Total Sum of NumberBypassed		1,311,861	1,550,962	124,845	60,217	1,288,166	4,336,051
Total Sum of NumberTrucked		41,339	23,798	905	653	45,740	112,435
Total Sum of SampleMorts		1,696	745	36	43	180	2,700
Total Sum of FacilityMorts		39,929	23,326	1,444	779	14,359	79,837
Total Sum of ResearchMorts		227	199	6	12	5	449
Total Sum of TotalProjectMorts		41,852	24,270	1,486	834	14,544	82,986

**Cumulative Adult Passage at Mainstem Dams Through: 10/20**

DAM	EndDate	Spring Chinook						Summer Chinook						Fall Chinook					
		2005		2004		10-Yr Avg.		2005		2004		10-Yr Avg.		2005		2004		10-Yr Avg.	
		Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack
BON	10/20	74,038	4,288	170,152	8,885	145,297	8,221	78,373	4,467	92,143	12,889	54,750	7,484	411,992	20,784	578,581	38,238	325,277	38,919
TDA	10/20	60,956	3,209	130,240	7,717	99,119	5,946	69,436	3,481	79,495	8,430	47,296	5,446	230,981	18,043	299,270	32,245	170,124	28,193
JDA	10/20	55,877	2,715	112,153	6,367	82,666	4,703	63,589	5,358	72,518	10,542	44,153	5,186	177,568	14,479	211,722	30,538	123,697	23,556
MCN	10/20	51,855	3,201	107,497	7,682	76,092	4,941	63,780	3,081	65,457	8,760	43,906	5,144	131,907	12,919	166,270	23,788	100,410	20,182
IHR	10/20	28,039	1,267	77,106	4,646	51,680	3,159	8,837	983	13,173	3,012	10,235	1,807	14,612	4,439	20,868	11,046	9,538	5,759
LMN	10/20	25,933	1,002	71,578	3,785	49,507	2,979	8,347	802	10,593	2,196	9,755	1,500	12,930	2,913	19,622	5,825	8,187	4,769
LGS	10/20	23,995	923	62,458	3,404	47,589	3,042	6,970	974	9,304	2,263	8,528	1,742	11,265	2,140	17,626	5,252	6,807	3,397
LGR	10/20	26,028	1,258	70,742	4,482	47,410	3,274	6,736	1,078	8,767	2,510	8,638	1,901	10,979	3,103	14,137	7,093	5,760	3,913
PRD	10/19	14,148	515	13,521	1,020	15,454	477	61,227	1,898	67,060	5,613	39,202	1,885	26,179	335	38,733	3,693	23,915	3,164
RIS	10/18	11,908	504	10,918	958	12,149	699	54,033	2,443	62,311	4,834	36,079	4,459	9,021	726	14,370	1,953	8,610	2,168
RRH	10/18	4,568	417	4,365	734	4,426	242	42,348	2,261	41,532	8,093	26,362	2,921	4,054	569	7,644	1,395	5,352	1,583
WEL	10/19	4,897	99	4,615	178	3,006	190	30,161	678	31,474	1,373	19,609	1,386	2,382	407	4,861	515	2,655	597
WFA	10/19	35,453	1,180	96,319	757			---	---	---	---	---	---	962	73	673	116	n/a	n/a

DAM	Coho						Sockeye			Steelhead			
	2005		2004		10-Yr Avg.		10-Yr		10-Yr			Wild	
	Adult	Jack	Adult	Jack	Adult	Jack	2005	2004	Avg.	2005	2004	Avg.	2005
BON	80,044	5,424	108,859	4,710	76,516	5,022	72,448	123,286	53,716	309,994	308,490	308,826	87,948
TDA	30,996	2,166	35,735	1,853	18,811	1,800	65,017	107,466	44,480	236,031	234,900	230,211	70,346
JDA	30,102	3,277	27,781	2,072	14,996	1,673	69,078	113,497	48,145	218,202	221,077	225,360	63,047
MCN	18,013	1,184	16,425	1,067	7,583	714	63,542	89,707	41,398	207,859	193,151	172,549	54,803
IHR	1,532	26	2,843	36	557	21	19	91	24	147,047	163,269	130,522	33,503
LMN	1,988	23	2,814	136	433	33	17	80	28	146,165	141,254	123,206	35,164
LGS	1,778	76	2,357	115	335	8	14	81	32	134,388	134,058	112,090	29,232
LGR	1,835	93	2,968	93	479	22	17	113	32	136,451	137,714	113,701	31,845
PRD	683	80	4,381	767	1,452	201	74,560	124,943	52,082	12,143	18,526	12,574	n/a
RIS	5,159	0	4,623	0	1,688	0	71,226	106,666	47,463	12,127	19,216	11,779	6,302
RRH	834	0	633	0	237	0	55,569	81,338	32,418	9,390	14,009	8,878	4,113
WEL	162	0	178	0	37	0	53,215	78,053	31,671	6,697	8,823	6,371	2,521
WFA	1,149	270	2,736	519	n/a	n/a	0	0	n/a	19,475	44,502	n/a	n/a

PRD is missing 8/10 to 8/14, 8/23, 09/09.

On July 2 a shad was seen at RRH.

\*PRD is not posting wild steelhead numbers.

These numbers were collected from USACE, Grant PUD, Douglas PUD, Chelan PUD, ODFW and DART.

Wild steelhead numbers are included in the total. Wild Steelhead are defined as unclipped fish.

Historic counts (pre-1996) were obtained from CRITFC and compiled by the FPC.

Historic counts 1997 to present were obtained from the Corps of Engineers.

Page last updated on: 10/21/05

BON counts from January 1, 2005 to March 14, 2005 (our traditional counts begin March 15):

Chinook Adult	Chinook Jack	Steelhead	Wild Steelhead
15	0	256	-74

Run Year counts (June 1, 2005 to May 31, 2006) for Lower Granite: