



# Fish Passage Center Weekly Report #07 - 25

August 24, 2007

1827 NE 44th Ave., Suite 240  
Portland, OR 97213  
phone: 503/230-4099  
fax: 503/230-7559

## Summary of Events:

Precipitation throughout the Columbia Basin has varied between 32% and 124% of average at individual sub-basins over the first twenty days of August. Precipitation above The Dalles has been 67% of average over August. Over the entire water year, precipitation has varied between 72% and 103% of average at individual sub-basins.

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

Location	Water Year 2007 August 1-20		Water Year 2007 October 1, 2006 to August 20, 2007	
	Observed (inches)	% Average	Observed (inches)	% Average
Columbia Above Coulee	0.51	46	23.21	99
Snake River Above Ice Harbor	0.51	92	12.97	78
Columbia Above The Dalles	0.51	67	20.66	95
Kootenai	0.45	41	24.75	103
Clark Fork	0.32	38	15.42	85
Flathead	0.34	32	19.60	91
Pend Oreille/Spokane	0.38	46	25.71	87
Central Washington	0.14	57	7.70	90
Snake River Plain	0.29	77	7.62	72
Salmon/Boise/Payette	0.25	55	14.59	77
Clearwater	0.31	41	26.10	90
SW Washington Cascades/Cowlitz	0.75	75	66.36	98
Willamette Valley	0.86	124	58.29	102

Grand Coulee Reservoir is at 1280.2 feet (8-23-07) and drafted 1.2 feet last week. Outflows at Grand Coulee ranged between 67.9 and 119.9 Kcfs last week. The summer end of August draft limit at Grand Coulee is 1278 feet.

Dworshak is currently at an elevation of 1542.0 feet (8-23-07) and drafted 6.0 feet last week. Outflows at Dworshak have been approximately 7.9 Kcfs.

The Libby Reservoir is currently at elevation 2442.2 feet (8-23-07) and drafted 2.8 feet last week. Outflows at Libby were reduced to 15 Kcfs on 8-23-07.

Hungry Horse is currently at an elevation of 3545.1 feet (8-23-07) and drafted 1.8 feet last week. Outflows at Hungry Horse are currently at 4.4 Kcfs and will remain at this level through August.

The Brownlee Reservoir was at an elevation of 2055.5 feet on August 23rd, 2007, holding steady last week. Outflows at Brownlee Dam have been 6.6 to 10.9 Kcfs over the last week.

The summer Biological Opinion flow objective at McNary Dam is 200 Kcfs this year. Flows at McNary Dam have averaged 167.4 Kcfs over the summer season to date and 132.1 Kcfs last week.

The summer Biological Opinion flow at Lower Granite Dam is 50 Kcfs this year. Flows at Lower Granite Dam have averaged 29.7 Kcfs over the summer season to date and 22.0 Kcfs last week.

**Spill:** In accordance with the Court Order, summer spill was initiated at the Snake River Projects at 0001 hours on June 21, 2007. The Court Order calls for the following spill levels at the Federal Snake River Projects:

Project	Day/Night Spill
Lower Granite	18Kcfs/18Kcfs
Little Goose	30%/30%
Lower Monumental	17Kcfs/17Kcfs
Ice Harbor	45Kcfs/Gas Cap Study

In general, the lower Snake River projects have been meeting the Court Order. The Court Order allows for the operation of one turbine unit at each of the Snake River projects. This minimum operation of one turbine unit and the low flow results in hours where the specified spill targets at each project cannot be achieved. A planned line outage at Lower Granite Dam over the past several days resulted in a powerhouse flow of 5 Kcfs with all additional flow being spilled. The project capacity increased to one unit on August 23, 2007.

Court ordered summer spill at the lower Columbia projects began on July 1, 2007. The Court Order calls for the following spill levels at the Federal Lower Columbia River Projects:

Project	Day/Night Spill
McNary	40%/40% vs 60%/60%
John Day	30%/30%
The Dalles	40%/40%
Bonneville	85Kcfs/gas cap until July 15 75Kcfs/gas cap July 16 -Aug31

Spill at McNary Dam is alternating 60% of instantaneous flow and 40% of instantaneous flow in 2 day blocks. Low flows coming out of the weekend on Monday, August 20 prevented this project from meeting the 60% spill level for that day. Anticipating a similar situation next Monday, it was decided to swap the 60% spill days with the 40% spill days on next Monday and Tuesday. Consequently, the summer spill program will end with 60% spill days, rather than 40% spill level. Summer spill at John Day Dam is 30% of instantaneous flow, an objective that the project has met over the past week. According to the court order, summer spill at The Dalles Dam is the same as was seen in the spring, 40% of instantaneous flow

for 24 hours. The Dalles Dam has met this objective over the past week.

On June 20th the summer spill program was initiated at Bonneville Dam for research purposes, which was to be implemented until July 15. On July 16 the project reverted to the Court's Order of 75 Kcfs during daytime hours and gas cap spill at night. During the past week, the gas cap spill level was reduced since TDG at the Camas/Washougal monitor exceeded the 115% TDG on August 22nd and 23rd.

Total dissolved gas waivers were not exceeded at the federal hydroprojects throughout the past week, except for the two days at the Camas/Washougal gage. Gas bubble trauma (GBT) monitoring continued this week at Little Goose, Lower Monumental, McNary, Rock Island and Bonneville dams. Low fish numbers have resulted in sample sizes well below the desired number. Two fish with minor signs of GBT was observed this past week, one at Rock Island Dam and one at Little Goose Dam.

**Smolt Monitoring:** Subyearling indices decreased this past week at most SMP sites.

At Lower Granite Dam, there was a decrease in the average subyearling passage index, with the average this week at 100 per day compared to 150 per day last week. Indices of subyearling Chinook decreased at Little Goose while at Lower Monumental Dam the average index increased slightly.

At Rock Island Dam, the subyearling index was down this past week, averaging 42 per day this week compared to 92 per day last week.

In the Lower Columbia, at McNary Dam, numbers of subyearling Chinook were relatively high again this week, with the index averaging 2,800 this week compared to 26,000 last week. While at John Day and Bonneville dams, sampling has been reduced due to high temperatures in the river. John Day SMP crews sample twice a week at temperatures exceeding 70 degrees F, while the Bonneville SMP switches to every other day sampling. The weekly average subyearling index fell reflecting the decreasing passage of subyearling Chinook through the lower River. The index at John Day Dam averaged 900 compared to 4,000 last week. At Bonneville Dam the index averaged 2,400

this week compared to 5,000 per day last week.

**Hatchery Release:**

**Snake River Zone:** The Snake River Zone encompasses the Snake River and its tributaries from its confluence with the Columbia River to Hells Canyon Dam. There were no releases scheduled for the Snake River Zone this week. Furthermore, there are no releases scheduled for this zone over the next two weeks.

**Mid-Columbia Zone:** The Mid-Columbia Zone encompasses the area of the Columbia River and its tributaries from McNary Dam to Chief Joseph Dam. There were no releases of juvenile salmonids scheduled for the Mid-Columbia River Zone this week. Furthermore, there are no releases scheduled for this zone over the next two weeks.

**Lower Columbia Zone:** The Lower Columbia Zone is defined as the Columbia River and its tributaries from Bonneville Dam to McNary Dam. There were no scheduled releases into the Lower Columbia River Zone over the past week and are no scheduled releases over the next two weeks.

**Adult Fish Passage:** At Bonneville dam, daily counts for fall Chinook began on August 1st. As of August 23rd, 16,504 fall Chinook adults and 2,219 jacks had passed Bonneville Dam. This season, the 2007 Bonneville fall Chinook count is 1.12 times greater than the 2006 count and is about 80.8 percent of the 10-year average. Daily counts for adult fall Chinook began August 4th at The Dalles Dam. Daily fall Chinook totals ranged from 373 to 729 at The Dalles Dam as of August 23rd, with a total count of 7,429. Fall Chinook counts began August 18th at Rock Island Dam. As of August 22nd, the daily fall Chinook counts at Rock Island Dam ranged between 70 and 115.

The 2007 steelhead count at Bonneville Dam was 220,271, as of August 23rd. This season, the 2007 Bonneville steelhead count is 1.30 times greater than the 2006 count and 1.09 times greater than the 10-year average. The daily steelhead counts at The Dalles Dam ranged between 2,245 and 3,314 for the week with the cumulative count of 73,326. About 33.2 percent of the steel-

head counted at Bonneville has passed The Dalles Dam. The majority of the 36,572 steelhead counted at McNary Dam have moved up into the Snake River with the cumulative count at Ice Harbor now at 13,443 for the season. The cumulative count at Priest Rapids was at 4,125 for the season.

The FPC has received several data requests from individuals asking about the higher steelhead counts at upstream projects compared to downstream projects. The higher counts of steelhead at upstream sites compared to downstream sites in any particular year is because some steelhead spend the winter between sites, for instance between Ice Harbor and Lower Granite, and then start their migration upstream the following year. The summer steelhead run is delineated according to dates of passage past Bonneville Dam and is made up of two components. A-run steelhead pass Bonneville Dam from the first of June through August 25 and B-run steelhead pass Bonneville from August 26 through October. These fish spawn the following spring, so they over winter in the rivers. The higher counts at upstream dams are caused by the fish that overwintered between dams, re-starting their upstream migration the following year. A-run summer steelhead pass Bonneville Dam through August 25th. As of August 23rd, the 2007 A-run steelhead count at Bonneville was 216,760 which was about 1.31 times the 2006 count of 165,916.

The coho salmon run at Bonneville is just beginning with 704 adults and 107 jacks counted to date. To date, the 2007 Bonneville coho count is about 52 percent of the 2006 count and 83 percent of the 10-year average. Four chum and 5 pink salmon have been observed at Bonneville Dam so far this 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
08/10/07	114.8	0.1	110.1	0.0	120.1	8.6	123.8	10.5	126.7	24.4	142.2	1.8	141.9	21.5
08/11/07	125.6	0.2	124.5	0.0	121.4	7.9	111.6	9.7	111.0	23.4	106.3	1.8	100.2	21.0
08/12/07	100.5	0.1	106.5	0.0	108.7	7.4	106.7	10.1	104.1	22.2	116.2	2.8	114.1	24.2
08/13/07	140.4	0.1	127.4	0.0	134.7	8.4	137.0	11.6	138.2	26.1	144.3	5.9	142.8	21.3
08/14/07	138.5	0.1	136.8	0.0	142.4	9.0	138.5	10.4	137.6	24.5	140.1	10.1	138.2	21.6
08/15/07	105.4	0.1	117.5	0.0	128.1	7.9	129.3	10.9	130.7	26.2	141.1	10.1	138.7	21.2
08/16/07	100.8	0.1	101.2	0.0	93.1	6.8	90.2	9.1	89.7	21.6	114.2	8.6	115.6	21.5
08/17/07	100.3	0.2	98.1	0.0	100.0	7.5	100.2	8.6	101.5	20.3	102.6	8.6	97.3	21.7
08/18/07	67.9	0.1	63.2	0.0	78.5	6.2	80.3	7.3	79.9	18.1	105.8	8.2	108.9	20.0
08/19/07	73.0	0.1	82.9	0.0	68.9	5.6	60.0	8.6	59.1	17.8	71.3	6.9	72.6	20.4
08/20/07	115.0	0.1	114.7	0.0	119.1	8.7	116.2	9.7	116.4	23.6	95.8	8.0	87.3	21.6
08/21/07	119.9	0.1	123.0	0.0	127.6	8.1	122.6	8.0	121.9	17.9	114.2	9.1	108.2	21.9
08/22/07	105.5	0.1	100.1	0.0	108.6	7.5	112.4	0.0	115.6	0.1	131.9	10.3	126.6	21.7
08/23/07	115.4	0.1	120.0	0.0	120.4	8.1	113.7	0.0	110.2	0.0	116.5	4.7	122.8	21.6

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

Date	Dworshak		Hells Canyon		Lower Granite		Little Goose		Lower Monumental		Ice Harbor	
	Flow	Spill	Inflow	Outflow	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill
08/10/07	10.0	0.0	9.5	9.7	25.7	13.2	25.1	7.4	26.4	14.2	27.3	17.2
08/11/07	9.9	0.0	9.4	10.4	25.7	13.2	26.3	7.7	26.4	14.2	24.4	14.2
08/12/07	7.8	0.0	9.4	10.2	25.6	12.9	25.5	7.4	23.4	11.3	24.4	14.1
08/13/07	7.9	0.0	9.6	11.8	24.1	11.4	22.5	13.6	25.4	13.2	24.6	14.7
08/14/07	7.9	0.0	8.8	10.3	23.4	10.6	23.3	17.6	23.5	10.5	21.8	11.7
08/15/07	7.9	0.0	8.7	9.9	23.8	11.3	23.7	18.2	22.3	10.1	22.9	12.7
08/16/07	7.9	0.0	8.8	9.4	22.7	10.3	22.4	16.9	24.3	12.2	23.6	13.3
08/17/07	7.9	0.0	9.0	9.1	22.6	9.9	23.0	13.8	21.9	9.7	21.5	11.3
08/18/07	7.9	0.0	8.9	9.0	22.0	9.3	20.9	6.3	21.8	9.8	21.1	11.0
08/19/07	7.9	0.0	8.1	9.0	21.1	8.4	18.5	5.6	18.8	6.6	18.9	8.8
08/20/07	7.9	0.0	8.8	8.8	21.7	14.5	23.0	6.9	21.9	8.7	21.0	11.0
08/21/07	7.9	0.0	9.2	8.7	22.0	16.4	24.4	7.4	24.1	11.8	25.0	15.0
08/22/07	8.0	0.0	9.0	8.9	23.4	18.1	22.1	6.6	21.8	9.5	22.5	12.5
08/23/07	8.0	0.0	---	---	21.4	13.7	18.8	5.6	17.1	5.0	18.7	8.6

**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		
08/10/07	181.0	72.6	167.2	49.9	154.8	61.8	162.3	97.2	0.0	53.7
08/11/07	146.9	81.1	140.7	42.2	138.4	55.5	163.8	98.4	0.1	53.9
08/12/07	135.4	81.1	132.4	39.5	129.5	51.6	154.2	94.8	0.0	47.9
08/13/07	168.6	74.5	158.2	47.1	149.5	59.8	131.3	86.4	0.0	33.4
08/14/07	166.6	66.8	158.3	47.7	151.5	60.8	164.8	94.7	0.0	58.6
08/15/07	163.2	92.8	150.8	45.1	147.6	59.1	165.8	97.3	0.0	56.9
08/16/07	162.5	97.7	152.1	45.5	150.4	60.3	160.2	101.4	0.0	47.3
08/17/07	128.4	58.9	124.3	37.2	122.2	49.3	149.7	96.9	0.0	41.3
08/18/07	130.6	52.3	119.2	36.1	112.9	45.3	128.5	84.1	0.0	32.9
08/19/07	139.8	77.6	113.7	34.2	108.6	43.4	117.1	75.2	0.0	30.4
08/20/07	117.5	60.5	121.0	36.1	116.1	45.8	118.4	76.1	0.0	30.9
08/21/07	119.8	48.1	114.0	34.3	114.2	45.7	125.7	82.3	0.0	31.8
08/22/07	149.2	59.6	146.8	44.1	140.1	55.9	146.0	94.7	0.0	39.8
08/23/07	139.1	77.9	137.4	41.0	127.6	51.4	138.4	92.8	0.0	34.1

## Gas Bubble Trauma Monitoring Results from Representative Sites on the Snake River and Columbia River

Site	Date	Species	Number of Fish	Number w GBT signs	Number w Fin Signs	% Fin GBT	% Severe Fin GBT	Number of Fish with Fin GBT Listed by Highest Rank			
								Rank 1	Rank 2	Rank 3	Rank 4
<b>Little Goose Dam</b>											
	08/14/07	Chinook + Steelhead	3	0	0	0.00%	0.00%	0	0	0	0
	08/22/07	Chinook + Steelhead	13	1	1	7.69%	0.00%	1	0	0	0
<b>Lower Monumental Dam</b>											
	08/19/07	Chinook + Steelhead	9	0	0	0.00%	0.00%	0	0	0	0
<b>McNary Dam</b>											
	08/16/07	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
<b>Bonneville Dam</b>											
	08/14/07	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	08/18/07	Chinook + Steelhead	103	0	0	0.00%	0.00%	0	0	0	0
	08/21/07	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
<b>Rock Island Dam</b>											
	08/14/07	Chinook + Steelhead	50	0	0	0.00%	0.00%	0	0	0	0
	08/16/07	Chinook + Steelhead	50	1	1	2.00%	0.00%	1	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 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>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>	<u>High</u>	#	
	Avg	Avg		High	Avg		Avg	High		Avg	Avg		High	Avg		Avg	High	Avg		Avg
8/10	106	106	107	25	110	111	112	26	108	109	109	26	107	108	110	26	107	107	107	26
8/11	106	106	107	24	110	110	111	24	108	109	109	24	107	108	109	24	107	108	108	24
8/12	106	107	107	24	108	109	109	24	108	108	109	24	107	108	112	24	107	107	107	24
8/13	106	106	107	24	107	108	109	24	108	108	108	24	107	108	110	24	106	107	107	24
8/14	106	107	108	24	108	109	109	24	107	108	108	24	106	107	109	24	106	107	107	24
8/15	106	106	107	24	109	109	110	24	108	108	109	24	106	106	107	24	107	107	107	24
8/16	106	106	106	24	109	109	110	24	108	108	109	24	107	107	109	24	107	107	108	24
8/17	106	106	107	24	109	109	110	24	107	108	108	24	106	107	110	24	106	107	107	24
8/18	106	107	107	24	109	110	110	24	107	108	108	24	105	106	107	24	106	107	107	24
8/19	106	107	107	24	108	109	110	24	107	107	107	24	105	106	108	24	106	106	107	24
8/20	106	106	107	24	108	109	109	24	106	106	107	24	106	106	108	24	105	106	106	24
8/21	105	106	106	24	107	108	108	24	105	106	106	24	105	105	107	24	105	106	106	24
8/22	105	105	106	24	108	108	108	24	106	106	107	24	105	106	108	24	105	106	106	24
8/23	105	106	107	24	107	108	108	24	106	106	107	24	104	105	107	24	105	106	106	24

### 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>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>	<u>High</u>	#	
	Avg	Avg		High	Avg		Avg	High		Avg	Avg		High	Avg		Avg	High	Avg		Avg
8/10	107	107	108	26	107	108	109	26	109	110	110	26	108	108	108	26	109	109	109	26
8/11	107	107	108	24	107	109	110	24	109	110	111	24	108	108	108	24	109	109	109	24
8/12	107	108	110	24	107	108	108	24	109	109	110	24	108	108	108	24	109	109	111	24
8/13	106	107	107	24	106	107	108	24	108	108	109	24	107	107	108	24	108	108	109	24
8/14	106	107	108	24	107	108	109	24	109	110	111	24	108	108	108	24	108	109	109	24
8/15	107	107	108	24	108	109	109	24	109	110	111	24	108	109	109	24	109	109	110	24
8/16	107	108	109	24	108	108	109	24	109	110	110	24	108	109	109	24	109	109	110	24
8/17	106	107	108	24	106	107	107	24	108	109	109	24	108	108	108	24	108	109	109	24
8/18	107	108	109	24	106	107	107	24	108	109	109	24	107	108	108	24	108	108	109	24
8/19	107	108	109	24	105	106	106	24	107	107	108	24	107	107	107	24	107	108	108	24
8/20	105	105	106	24	105	105	106	24	107	107	108	24	106	106	106	24	106	107	109	24
8/21	105	106	107	24	105	105	106	24	106	107	107	24	105	105	105	24	106	106	106	24
8/22	105	106	107	24	106	107	108	24	107	108	109	24	105	106	106	24	106	106	106	24
8/23	105	106	107	24	106	107	108	24	108	108	109	24	106	106	107	24	106	107	107	24

### 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>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>	<u>High</u>	#	
	Avg	Avg		High	Avg		Avg	High		Avg	Avg		High	Avg		Avg	High	Avg		Avg
8/10	109	109	110	24	114	115	119	26	107	107	108	24	108	109	109	24	107	107	108	24
8/11	109	110	110	24	115	117	119	24	106	108	110	24	109	109	110	24	108	110	112	24
8/12	108	109	109	24	114	116	119	24	105	106	108	24	109	109	112	24	107	108	109	24
8/13	108	109	110	24	114	115	118	24	106	108	109	24	110	111	114	24	107	108	109	24
8/14	109	110	111	24	114	115	118	24	107	109	112	24	112	114	116	24	111	113	115	24
8/15	109	109	110	24	115	116	119	24	108	111	113	24	113	115	117	24	112	114	116	24
8/16	109	109	109	24	114	114	114	24	108	109	109	24	114	114	117	9	112	112	113	24
8/17	109	109	110	24	113	114	114	24	107	108	109	24	110	110	114	12	109	110	111	24
8/18	108	108	109	24	115	116	118	24	107	107	108	24	111	113	115	24	109	110	112	24
8/19	107	108	109	24	115	116	117	24	105	106	108	24	111	113	116	24	108	108	111	24
8/20	107	107	107	24	112	113	114	24	104	104	105	24	110	112	115	24	108	109	110	24
8/21	106	107	107	24	111	112	116	24	103	104	106	24	110	113	119	24	108	109	112	24
8/22	106	106	107	24	107	107	111	24	105	107	109	24	111	113	119	24	109	112	115	24
8/23	106	106	107	24	106	107	108	24	---	---	---	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	Priest R. Dnst				Pasco				Dworshak				Clrwrtr-Peck				Anatone			
	24 h		12 h		#	24 h		12 h		#	24 h		12 h		#	24 h		12 h		#
	Avg	Avg	High	Avg		Avg	High	Avg	Avg		High	Avg	Avg	High		Avg	Avg	High		
8/10	110	110	111	24	105	106	107	26	100	100	100	26	---	---	---	0	101	102	104	26
8/11	110	111	112	24	106	107	108	24	100	100	101	24	---	---	---	0	101	103	105	24
8/12	111	111	112	24	107	107	108	24	100	100	101	24	101	103	105	24	101	102	104	24
8/13	110	111	111	24	107	108	108	24	100	100	101	24	101	103	104	24	101	103	104	24
8/14	113	114	115	24	107	108	109	24	100	101	101	24	101	103	105	24	102	103	105	24
8/15	114	115	116	24	109	111	111	24	100	101	101	24	102	103	104	24	102	103	104	24
8/16	113	114	115	21	109	109	110	24	101	101	101	24	102	103	104	24	101	102	103	24
8/17	111	111	111	3	108	109	110	24	100	100	101	24	101	103	104	24	101	102	104	24
8/18	---	---	---	0	107	108	109	24	101	101	101	24	102	103	105	24	101	103	104	24
8/19	---	---	---	0	106	106	107	24	100	101	101	24	101	102	103	24	100	101	101	24
8/20	110	111	112	13	104	105	105	24	100	100	100	24	100	101	101	24	100	101	101	24
8/21	111	112	114	24	105	107	108	24	100	100	100	24	101	102	104	24	101	102	103	24
8/22	112	113	115	24	107	108	108	24	100	100	101	24	101	102	104	24	101	103	104	24
8/23	---	---	---	0	108	109	110	24	100	101	101	24	101	103	104	24	102	103	104	24

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

Date	Clrwrtr-Lewiston				Lower Granite				L. Granite Tlwr				Little Goose				L. Goose Tlwr			
	24 h		12 h		#	24 h		12 h		#	24 h		12 h		#	24 h		12 h		#
	Avg	Avg	High	Avg		Avg	High	Avg	Avg		High	Avg	Avg	High		Avg	Avg	High		
8/10	103	105	106	26	101	101	102	26	110	111	111	26	103	104	104	25	106	107	115	25
8/11	103	105	107	24	102	102	103	24	111	111	112	24	103	103	104	24	106	107	107	24
8/12	103	105	107	24	101	101	102	24	110	111	111	24	103	103	103	24	106	106	106	24
8/13	103	105	107	24	100	101	101	24	110	110	111	24	103	103	103	24	111	115	116	24
8/14	103	106	108	24	100	100	101	24	109	110	111	24	104	105	106	24	115	116	117	24
8/15	103	105	107	24	100	101	101	24	110	110	111	24	105	106	106	24	116	116	117	24
8/16	102	104	106	24	101	101	101	24	109	109	110	24	106	106	107	24	115	115	116	24
8/17	103	105	107	24	100	101	101	24	109	109	110	24	106	106	106	24	113	116	116	24
8/18	103	105	107	24	100	101	101	24	109	109	110	24	105	105	106	24	107	107	108	24
8/19	101	102	102	24	101	101	101	24	109	109	110	24	104	105	105	24	106	106	106	24
8/20	101	102	102	24	100	101	101	24	114	116	117	24	105	105	105	24	106	107	107	24
8/21	102	104	106	24	100	100	100	24	116	116	117	24	103	104	104	24	106	107	107	24
8/22	103	105	107	24	100	100	100	24	115	116	116	24	104	104	104	24	106	106	107	24
8/23	103	105	106	24	100	100	100	24	113	115	116	24	103	103	104	24	105	106	106	24

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

Date	Lower Mon.				L. Mon. Tlwr				Ice Harbor				Ice Harbor Tlwr				McNary-Oregon			
	24 h		12 h		#	24 h		12 h		#	24 h		12 h		#	24 h		12 h		#
	Avg	Avg	High	Avg		Avg	High	Avg	Avg		High	Avg	Avg	High		Avg	Avg	High		
8/10	103	103	104	26	111	113	113	26	106	107	107	26	111	113	114	26	---	---	---	0
8/11	104	104	104	24	111	113	113	24	106	106	106	24	111	112	112	24	---	---	---	0
8/12	103	103	103	24	112	112	113	24	105	106	106	24	111	111	112	24	---	---	---	0
8/13	103	103	103	24	111	112	112	24	105	105	106	24	110	111	112	24	---	---	---	0
8/14	103	104	104	24	110	112	114	24	106	107	107	24	110	111	112	24	---	---	---	0
8/15	104	104	104	24	110	112	112	24	107	108	108	24	111	111	112	24	---	---	---	0
8/16	103	103	104	24	111	112	112	24	108	108	108	24	110	111	111	24	---	---	---	0
8/17	102	103	104	24	111	112	112	24	107	108	109	24	111	112	113	24	---	---	---	0
8/18	105	106	108	24	112	113	113	24	109	109	109	24	111	112	113	24	---	---	---	0
8/19	109	110	111	24	111	112	113	24	108	109	109	24	110	111	111	24	---	---	---	0
8/20	110	110	110	24	112	113	115	24	107	107	108	24	110	111	112	24	---	---	---	0
8/21	108	109	109	24	114	115	115	24	106	106	106	24	111	112	112	24	---	---	---	0
8/22	107	108	108	24	113	114	115	24	106	106	106	24	110	111	112	24	---	---	---	0
8/23	106	106	108	24	107	108	111	24	106	106	106	24	110	111	111	24	---	---	---	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 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>	#	<u>24h</u>	<u>AVG</u>	<u>High</u>	#	
	Avg	Avg		High	hr		Avg	Avg		High	hr		Avg	Avg		High	hr	Avg		AVG
8/10	103	104	105	26	114	115	116	26	101	101	102	26	115	116	116	25	104	104	106	26
8/11	105	105	105	24	113	114	115	24	101	102	102	24	114	114	115	24	105	105	106	24
8/12	104	105	105	24	115	117	117	24	101	101	101	24	114	114	114	24	105	105	106	24
8/13	105	105	107	24	114	117	118	24	100	101	101	24	115	116	118	24	105	105	106	24
8/14	106	107	108	24	115	116	117	24	101	102	103	24	115	117	119	24	107	107	107	24
8/15	107	107	108	24	115	115	116	24	103	103	105	24	115	116	118	24	107	107	108	24
8/16	108	108	109	24	114	115	116	24	103	103	103	24	114	115	115	24	105	106	107	24
8/17	107	107	107	24	116	118	118	24	103	103	104	24	113	114	114	24	104	105	105	24
8/18	106	106	107	24	118	118	118	24	103	104	104	24	114	114	114	24	105	106	106	24
8/19	105	106	106	24	115	116	117	24	103	104	104	24	113	114	114	24	105	106	106	24
8/20	104	104	104	24	113	114	115	24	103	103	103	24	114	114	114	24	105	105	105	24
8/21	104	104	104	24	116	117	118	24	102	103	103	24	113	114	114	24	106	107	107	24
8/22	104	104	105	24	117	118	118	24	102	103	103	24	114	115	116	24	106	107	107	24
8/23	105	105	106	24	115	116	117	24	102	103	103	24	115	115	116	24	107	107	108	24

Total Dissolved Gas Saturation Data at Lower Columbia River Sites

Date	<u>The Dalles Dnst</u>			<u>Bonneville</u>			<u>Warrendale</u>			<u>CamasWashougal</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>	#	<u>24h</u>	<u>12h</u>	<u>High</u>	#	
	Avg	Avg		High	hr		Avg	Avg		High	hr		Avg	Avg		High	hr	Avg		AVG
8/10	112	112	113	26	104	105	106	26	---	---	---	0	112	114	116	26	---	---	---	0
8/11	113	113	113	24	105	106	106	24	---	---	---	0	113	115	118	24	---	---	---	0
8/12	112	112	112	24	105	106	106	24	---	---	---	0	111	113	114	24	116	117	120	24
8/13	112	113	113	24	106	106	107	24	---	---	---	0	112	114	116	24	115	116	120	24
8/14	114	114	115	24	107	108	108	24	---	---	---	0	115	117	119	24	116	118	121	24
8/15	114	114	115	24	109	109	110	24	---	---	---	0	114	116	118	24	116	118	121	24
8/16	112	113	113	24	107	107	108	24	---	---	---	0	112	114	116	24	116	119	121	24
8/17	112	112	112	24	105	106	106	24	---	---	---	0	113	116	117	24	116	118	120	24
8/18	112	113	113	24	106	106	107	24	---	---	---	0	113	114	115	24	115	116	118	24
8/19	112	112	113	24	105	106	107	24	---	---	---	0	112	113	114	24	114	114	114	24
8/20	112	113	113	24	105	105	105	24	---	---	---	0	112	113	113	24	114	114	114	24
8/21	113	114	114	24	106	106	106	24	---	---	---	0	113	114	115	24	114	115	118	24
8/22	114	114	114	24	107	107	108	24	---	---	---	0	114	115	116	24	116	117	120	24
8/23	114	114	115	24	107	108	108	24	---	---	---	0	115	116	118	24	115	117	119	24



## 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/currentsmppsubmitdata.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)
08/10/2007 *	---	---	---	---	0	0	0	0	---	0	---
08/11/2007 *	---	---	---	---	0	0	0	0	0	0	0
08/12/2007 *	---	---	---	---	0	0	0	0	---	0	0
08/13/2007 *	---	---	---	---	0	0	0	0	0	0	0
08/14/2007 *	---	---	---	---	0	0	0	1	---	0	0
08/15/2007 *	---	---	---	---	0	0	0	0	17	0	0
08/16/2007 *	---	---	---	---	0	0	0	0	---	0	---
08/17/2007	---	---	---	---	0	0	0	0	0	72	0
08/18/2007 *	---	---	---	---	0	0	0	0	0	0	---
08/19/2007 *	---	---	---	---	0	0	2	0	0	0	0
08/20/2007 *	---	---	---	---	0	1	0	1	0	0	0
08/21/2007	---	---	---	---	0	0	0	0	0	0	0
08/22/2007 *	---	---	---	---	0	0	2	0	0	0	0
08/23/2007 *	---	---	---	---	---	0	---	0	0	0	0
08/24/2007	---	---	---	---	---	---	---	---	---	---	---
<hr/>											
<b>Total:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>4</b>	<b>2</b>	<b>17</b>	<b>72</b>	<b>0</b>
<b># Days:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>13</b>	<b>14</b>	<b>13</b>	<b>14</b>	<b>10</b>	<b>14</b>	<b>11</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>2</b>	<b>5</b>	<b>0</b>
<b>YTD</b>	<b>43,491</b>	<b>86,299</b>	<b>15,108</b>	<b>6,553</b>	<b>2,247,460</b>	<b>655,133</b>	<b>355,688</b>	<b>23,768</b>	<b>2,224,857</b>	<b>4,262,628</b>	<b>1,949,995</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)
08/10/2007 *	---	---	---	---	303	251	5	120	---	12,078	---
08/11/2007 *	---	---	---	---	157	208	0	82	57,936	0	5,660
08/12/2007 *	---	---	---	---	169	90	30	84	---	0	5,912
08/13/2007 *	---	---	---	---	133	115	15	55	8,633	0	3,962
08/14/2007 *	---	---	---	---	102	158	18	88	---	17,513	2,623
08/15/2007 *	---	---	---	---	90	44	28	132	12,905	0	7,525
08/16/2007 *	---	---	---	---	101	0	26	85	---	0	---
08/17/2007	---	---	---	---	84	17	36	78	3,520	4,303	6,974
08/18/2007 *	---	---	---	---	113	31	61	42	2,079	0	---
08/19/2007 *	---	---	---	---	52	67	40	47	2,650	0	2,127
08/20/2007 *	---	---	---	---	109	65	59	25	4,224	0	1,598
08/21/2007	---	---	---	---	224	114	24	33	2,352	2,163	1,138
08/22/2007 *	---	---	---	---	48	84	68	40	1,960	0	1,054
08/23/2007 *	---	---	---	---	---	55	---	31	2,830	0	1,644
08/24/2007	---	---	---	---	---	---	---	---	---	---	---
<hr/>											
<b>Total:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,685</b>	<b>1,299</b>	<b>410</b>	<b>942</b>	<b>99,089</b>	<b>36,057</b>	<b>40,217</b>
<b># Days:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>13</b>	<b>14</b>	<b>13</b>	<b>14</b>	<b>10</b>	<b>14</b>	<b>11</b>
<b>Average:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>130</b>	<b>93</b>	<b>32</b>	<b>67</b>	<b>9,909</b>	<b>2,576</b>	<b>3,656</b>
<b>YTD</b>	<b>0</b>	<b>83</b>	<b>90</b>	<b>255</b>	<b>326,922</b>	<b>436,576</b>	<b>78,412</b>	<b>15,488</b>	<b>4,679,036</b>	<b>2,999,216</b>	<b>4,061,208</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)	
08/10/2007	*	---	---	---	---	0	1	0	0	---	0	---
08/11/2007	*	---	---	---	---	0	1	0	0	0	0	0
08/12/2007	*	---	---	---	---	2	13	0	0	---	0	0
08/13/2007	*	---	---	---	---	0	3	0	0	0	0	0
08/14/2007	*	---	---	---	---	2	0	0	0	---	0	0
08/15/2007	*	---	---	---	---	0	13	0	0	0	0	27
08/16/2007	*	---	---	---	---	0	5	0	0	---	0	---
08/17/2007		---	---	---	---	0	4	0	0	0	0	0
08/18/2007	*	---	---	---	---	0	0	0	0	0	0	---
08/19/2007	*	---	---	---	---	0	1	0	0	0	0	4
08/20/2007	*	---	---	---	---	0	0	0	0	0	0	0
08/21/2007		---	---	---	---	4	1	0	0	0	0	0
08/22/2007	*	---	---	---	---	0	4	0	0	0	0	0
08/23/2007	*	---	---	---	---	---	1	---	0	0	0	0
08/24/2007		---	---	---	---	---	---	---	---	---	---	---
<hr/>												
<b>Total:</b>	0	0	0	0	8	47	0	0	0	0	31	
<b># Days:</b>	0	0	0	0	13	14	13	14	10	14	11	
<b>Average:</b>	0	0	0	0	1	3	0	0	0	0	3	
<b>YTD</b>	0	0	0	57	50,713	55,833	18,030	64,419	99,127	347,366	628,455	

		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)	
08/10/2007	*	---	---	---	---	2	83	5	1	---	0	---
08/11/2007	*	---	---	---	---	2	60	0	0	0	0	0
08/12/2007	*	---	---	---	---	2	43	9	2	---	0	0
08/13/2007	*	---	---	---	---	0	27	11	0	0	0	0
08/14/2007	*	---	---	---	---	4	61	8	1	---	0	0
08/15/2007	*	---	---	---	---	0	133	6	0	0	0	0
08/16/2007	*	---	---	---	---	2	47	6	2	---	0	---
08/17/2007		---	---	---	---	2	30	6	1	0	72	0
08/18/2007	*	---	---	---	---	0	15	9	0	9	0	---
08/19/2007	*	---	---	---	---	0	13	13	0	0	0	0
08/20/2007	*	---	---	---	---	0	16	8	0	0	0	0
08/21/2007		---	---	---	---	0	22	4	0	0	0	0
08/22/2007	*	---	---	---	---	17	39	6	0	0	0	0
08/23/2007	*	---	---	---	---	---	27	---	0	0	0	0
08/24/2007		---	---	---	---	---	---	---	---	---	---	---
<hr/>												
<b>Total:</b>	0	0	0	0	31	616	91	7	9	72	0	
<b># Days:</b>	0	0	0	0	13	14	13	14	10	14	11	
<b>Average:</b>	0	0	0	0	2	44	7	1	1	5	0	
<b>YTD</b>	3,734	46,002	1,940	7,792	1,859,315	1,870,452	740,767	18,552	376,491	961,304	267,125	

## 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)
08/10/2007	*	---	---	---	0	0	0	0	---	0	---
08/11/2007	*	---	---	---	0	0	0	0	0	0	0
08/12/2007	*	---	---	---	0	0	0	0	---	0	0
08/13/2007	*	---	---	---	0	0	0	0	0	0	0
08/14/2007	*	---	---	---	0	0	0	0	---	0	0
08/15/2007	*	---	---	---	0	0	0	0	17	0	0
08/16/2007	*	---	---	---	0	0	0	0	---	0	---
08/17/2007		---	---	---	0	0	0	0	0	0	0
08/18/2007	*	---	---	---	0	0	2	0	0	0	---
08/19/2007	*	---	---	---	0	0	0	0	9	0	0
08/20/2007	*	---	---	---	0	0	0	0	0	0	0
08/21/2007		---	---	---	0	0	0	0	0	0	0
08/22/2007	*	---	---	---	0	0	0	0	0	0	0
08/23/2007	*	---	---	---	---	0	---	0	0	0	0
08/24/2007		---	---	---	---	---	---	---	---	---	---
<hr/>											
<b>Total:</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>26</b>	<b>0</b>	<b>0</b>
<b># Days:</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>13</b>	<b>14</b>	<b>13</b>	<b>14</b>	<b>10</b>	<b>14</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>3</b>	<b>0</b>	<b>0</b>
<b>YTD</b>		<b>27</b>	<b>0</b>	<b>0</b>	<b>413</b>	<b>20,682</b>	<b>17,121</b>	<b>5,737</b>	<b>16,427</b>	<b>513,727</b>	<b>790,330</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

Passage Index = Collection Counts / {Powerhouse Flow / (Powerhouse Flow + Spill)}

LGS (Index) = Little Goose Bypass Collection System : Passage Index Counts

Passage Index = Collection Counts / {Powerhouse Flow / (Powerhouse Flow + Spill)}

LMN (Index) = Lower Monumental Dam Bypass Collection System : Passage Index Counts

Passage Index = Collection Counts / {Powerhouse Flow / (Powerhouse Flow + Spill)}

RIS (Index) = Rock Island Dam Second Powerhouse Bypass Trap : Passage Index Counts

Passage Index = Collection Counts / {Powerhouse 2 Flow / (Powerhouse 1 & 2 Flow + Spill)}

MCN (Index) = McNary Dam Bypass Collection System : Passage Index Counts

Passage Index = Collection Counts / {Powerhouse Flow / (Powerhouse Flow + Spill)}

JDA (Index) = John Day Dam Bypass Collection System : Passage Index Counts

Passage Index = Collection Counts / {Powerhouse Flow / (Powerhouse Flow + Spill)}

BO2 (Index) = Bonneville Dam Second Powerhouse Bypass Collection System : Passage Index Counts

Passage Index = Collection Counts / {Powerhouse 2 Flow / (Powerhouse 1 & 2 Flow + 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:

8/24/07 10:53 AM

		Species					
		08/10/07 TO 08/24/07					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
<b>LGR</b>	Sum of NumberCollected	782			3	11	796
	Sum of NumberBarged	592			2	7	601
	Sum of NumberBypassed	0			0	0	0
	Sum of Numbertrucked	255			1	2	258
	Sum of SampleMorts	16			0	3	19
	Sum of FacilityMorts	2			0	0	2
	Sum of ResearchMorts	0			0	0	0
	Sum of TotalProjectMorts	18			0	3	21
<b>LGS</b>	Sum of NumberCollected	795	1	24		299	1,119
	Sum of NumberBarged	214	0	23		294	531
	Sum of NumberBypassed	503	1	0		0	504
	Sum of Numbertrucked	47	0	6		75	128
	Sum of SampleMorts	5	0	0		2	7
	Sum of FacilityMorts	4	0	0		4	8
	Sum of ResearchMorts	27	0	0		0	27
	Sum of TotalProjectMorts	36	0	0		6	42
<b>LMN</b>	Sum of NumberCollected	218	2			46	267
	Sum of NumberBarged	45	0			21	66
	Sum of NumberBypassed	7	1			5	13
	Sum of Numbertrucked	123	1			22	147
	Sum of SampleMorts	35	0			0	35
	Sum of FacilityMorts	10	0			0	10
	Sum of ResearchMorts	0	0			0	0
	Sum of TotalProjectMorts	45	0			0	45
<b>MCN</b>	Sum of NumberCollected	54,172	10			5	54,202
	Sum of NumberBarged	0	0			0	0
	Sum of NumberBypassed	45,669	9			10	45,688
	Sum of Numbertrucked	6,614	0			5	6,624
	Sum of SampleMorts	165	1			0	166
	Sum of FacilityMorts	117	0			0	117
	Sum of ResearchMorts	0	0			0	0
	Sum of TotalProjectMorts	282	1			0	283
Total Sum of NumberCollected		55,967	13	27	16	361	56,384
Total Sum of NumberBarged		851	0	25	0	322	1,198
Total Sum of NumberBypassed		46,179	11	0	10	5	46,205
Total Sum of Numbertrucked		7,039	1	7	6	104	7,157
Total Sum of SampleMorts		221	1	0	0	5	227
Total Sum of FacilityMorts		133	0	0	0	4	137
Total Sum of ResearchMorts		27	0	0	0	0	27
Total Sum of TotalProjectMorts		381	1	0	0	9	391

### YTD Transportation Summary

Source: Fish Passage Center

Updated:

8/24/07 10:53 AM

TO: 08/24/07

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
<b>LGR</b>	Sum of NumberCollected	189,734	1,578,085	38,276	15,920	1,367,784	3,189,799
	Sum of NumberBarged	146,528	1,125,031	36,823	15,540	1,185,551	2,509,473
	Sum of NumberBypassed	40,108	451,109	1,432	356	181,734	674,739
	Sum of NumberTrucked	255	0	1	0	2	258
	Sum of SampleMorts	264	57	1	2	35	359
	Sum of FacilityMorts	1,352	1,008	19	22	462	2,863
	Sum of ResearchMorts	1,227	880	0	0	0	2,107
	Sum of TotalProjectMorts	2,843	1,945	20	24	497	5,329
<b>LGS</b>	Sum of NumberCollected	303,395	463,096	40,004	12,005	1,320,304	2,138,804
	Sum of NumberBarged	297,602	398,141	39,431	11,553	1,197,581	1,944,308
	Sum of NumberBypassed	5,229	64,721	541	433	121,828	192,752
	Sum of NumberTrucked	47	0	6	0	75	128
	Sum of SampleMorts	99	31	20	3	56	209
	Sum of FacilityMorts	249	198	5	16	745	1,213
	Sum of ResearchMorts	163	7	0	0	0	170
	Sum of TotalProjectMorts	511	236	25	19	801	1,592
<b>LMN</b>	Sum of NumberCollected	42,572	279,227	13,528	4,156	574,257	913,740
	Sum of NumberBarged	38,111	270,566	13,505	4,130	562,245	888,557
	Sum of NumberBypassed	4,099	8,184	21	2	11,483	23,789
	Sum of NumberTrucked	123	1	0	1	22	147
	Sum of SampleMorts	117	30	0	0	80	227
	Sum of FacilityMorts	122	393	2	23	444	984
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	239	423	2	23	524	1,211
<b>MCN</b>	Sum of NumberCollected	2,372,346	1,316,847	58,662	304,451	222,757	4,275,063
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	2,361,551	1,315,873	58,647	303,939	222,353	4,262,363
	Sum of NumberTrucked	6,614	0	0	5	5	6,624
	Sum of SampleMorts	1,049	142	4	58	33	1,286
	Sum of FacilityMorts	1,285	819	11	447	366	2,928
	Sum of ResearchMorts	241	13	0	2	0	256
	Sum of TotalProjectMorts	2,575	974	15	507	399	4,470
Total Sum of NumberCollected		2,908,047	3,637,255	150,470	336,532	3,485,102	10,517,406
Total Sum of NumberBarged		482,241	1,793,738	89,759	31,223	2,945,377	5,342,338
Total Sum of NumberBypassed		2,410,987	1,839,887	60,641	304,730	537,398	5,153,643
Total Sum of NumberTrucked		7,039	1	7	6	104	7,157
Total Sum of SampleMorts		1,529	260	25	63	204	2,081
Total Sum of FacilityMorts		3,008	2,418	37	508	2,017	7,988
Total Sum of ResearchMorts		1,631	900	0	2	0	2,533
Total Sum of TotalProjectMorts		6,168	3,578	62	573	2,221	12,602

Cumulative Adult Passage at Mainstem Dams Through: 08/23

DAM	EndDate	Spring Chinook						Summer Chinook						Fall Chinook					
		2007		2006		10-Yr Avg.		2007		2006		10-Yr Avg.		2007		2006		10-Yr Avg.	
		Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack
BON	08/23	66624	16606	96456	2908	156175	8234	47882	13686	97519	4355	69317	7971	16504	2219	14639	1589	20404	2248
TDA	08/23	52795	15406	61827	2176	108412	6003	40653	11409	81219	3620	59863	5873	7429	1368	7703	1028	10000	1391
JDA	08/23	43379	13663	50313	2093	90974	4767	36191	11717	73814	4150	55712	5893	3717	1084	4445	990	5477	1125
MCN	08/22	38852	12252	45887	2475	83968	5029	33008	9508	62571	3389	54019	5480	2643	550	3097	423	3345	625
IHR	08/23	28047	7308	25434	875	56277	3172	8015	2584	8540	545	11570	1861	646	48	497	80	304	40
LMN	08/23	26963	6934	23589	548	53700	2904	11836	1526	9926	523	11188	1521	417	54	459	87	216	52
LGS	08/23	23953	7227	20836	733	51418	2974	7898	2861	8156	596	9645	1792	196	28	233	25	140	22
LGR	08/23	22481	8971	22530	973	51737	3293	7703	3393	7058	662	9688	1964	138	29	127	26	74	18
PRD	08/20	6712	489	8535	81	17371	512	30644	1088	57236	556	48735	2050	934	108	1429	170	1453	195
RIS	08/22	5572	2066	9643	483	14040	762	28222	6200	61821	2086	45655	4765	500	206	738	111	797	209
RRH	08/22	2424	920	5376	274	5343	306	21667	5117	41234	1744	33778	3271	385	126	407	54	484	143
WEL	08/22	2040	752	4159	217	3869	205	12740	3364	24797	1511	23975	1429	0	0	0	0	0	0
WFA	08/18	23010	296	36851	189	-	-	0	0	0	0	-	-	13	5	31	1	-	-

DAM	Coho						Sockeye			Steelhead			Wild 2007
	2007		2006		10-Yr Avg.		2007	2006	10-Yr Avg.	2007	2006	10-Yr Avg.	
	Adult	Jack	Adult	Jack	Adult	Jack							
BON	704	107	1352	105	848	118	24367	37052	60816	220271	169081	200873	61756
TDA	62	7	121	16	61	11	19124	30020	50788	73326	44213	74035	23551
JDA	15	1	20	8	22	1	24205	35378	55209	47564	33656	52119	15827
MCN	0	0	0	0	0	0	18186	29288	46986	36572	19944	37562	12143
IHR	0	0	0	0	0	0	55	44	30	13443	9847	19521	2341
LMN	1	0	0	0	0	0	43	16	31	14520	10811	16328	3255
LGS	0	0	0	0	0	0	37	24	34	7631	5382	10784	1654
LGR	0	0	0	0	0	0	53	14	36	14812	9213	12973	3372
PRD	4	2	1	0	7	0	24638	26703	58326	4125	2555	4842	0
RIS	0	0	0	0	1	0	25092	35086	54155	3432	2102	4128	1660
RRH	0	0	0	0	1	0	20640	25341	37771	2341	1513	2908	935
WEL	0	0	0	0	0	0	21708	21928	37021	1057	651	1616	554
WFA	2	0	0	0	-	-	0	0	-	18707	24804	-	-

PRD does not post 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: 08/24/07

BON counts from January 1, 2006 to March 14, 2006 (our traditional counts begin March 15):

Year	Chinook Adult	Chinook Jack	Steelhead	Wild Steelhead
2007	22	0	1,677	517
2006	2	0	2,523	239