



Fish Passage Center Weekly Report #07 - 26

August 31, 2007

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Summary of Events:

Precipitation throughout the Columbia Basin has varied between 28% and 95% of average at individual sub-basins over the first twenty-seven days of August. Precipitation above The Dalles has been 57% of average over August. Over the entire water year, precipitation has varied between 72% and 102% 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 1-27		Water Year 2007 October 1, 2006 to August 27, 2007	
	Observed (inches)	% Average	Observed (inches)	% Average
Columbia Above Coulee	0.67	46	23.38	98
Snake River Above Ice Harbor	0.55	73	13.00	78
Columbia Above The Dalles	0.59	57	20.74	94
Kootenai	0.63	43	24.93	102
Clark Fork	0.34	30	15.45	93
Flathead	0.40	28	19.66	90
Pend Oreille/Spokane	0.42	38	25.75	87
Central Washington	0.14	42	7.7	89
Snake River Plain	0.35	68	7.68	72
Salmon/Boise/Payette	0.26	43	14.60	77
Clearwater	0.35	33	26.13	89
SW Washington Cascades/Cowlitz	0.81	61	66.42	97
Willamette Valley	0.88	95	58.32	101

Grand Coulee Reservoir is at 1278.6 feet (8-30-07) and drafted 1.2 feet last week. Outflows at Grand Coulee ranged between 60.2 and 135.8 Kcfs last week. The summer end of August draft limit at Grand Coulee is 1278 feet.

Dworshak is currently at an elevation of 1534.5 feet (8-30-07) and drafted 6.5 feet last week. Outflows at Dworshak have been approximately 7.8 Kcfs.

The Libby Reservoir is currently at elevation 2439.2 feet (8-30-07) and drafted 2.5 feet last week. Outflows at Libby are currently 11 Kcfs.

Hungry Horse is currently at an elevation of 3542.5 feet (8-30-07) and drafted 2.1 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 2055.2 feet on August 30th, 2007, holding steady last week. Outflows at Brownlee Dam have been 7.4 to 10.2 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 163.1 Kcfs over the summer season to date and 130.2 Kcfs last week.

The summer Biological Opinion flow at Lower Granite Dam is 50 Kcfs this year. Flows at Lower Granite Dam have averaged 29.0 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.

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. It was previously decided to swap the 60% spill days with the 40% spill days this week due to low flows over the weekend. 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 that 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, 23rd and 24th.

The summer spill program will end at midnight tonight (August 31st) on both the Snake and lower Columbia rivers.

Total dissolved gas waivers were not exceeded at the federal hydroprojects throughout the past week, except for one day 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. No fish with signs of GBT were observed this past week

Smolt Monitoring:

Subyearling indices were low at SMP sites this past week. Average daily indices increased slightly at Little Goose and McNary dams, otherwise numbers were down from last week. Few spring migrants are being seen at SMP sites now.

At Lower Granite Dam, there was a decrease in the average subyearling passage index, with the average this week at 80 per day compared to 90 per day last week. Indices of subyearling Chinook increased at Little Goose while at Lower Monumental Dam the average index decreased slightly.

At Rock Island Dam, the subyearling index was down this past week, averaging 25 per day this week compared to 42 per day last week.

In the Lower Columbia, at McNary Dam, numbers of subyearling Chinook were up this week, with the index averaging 3,800 this week compared to 2,800 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 570 compared to 900 last week. At Bonneville Dam the index averaged 660 this week compared to 2,400 per day last week.

Hatchery Release:

No releases of juvenile salmonids were scheduled over the past two weeks. Furthermore, there are no releases scheduled over the next two weeks.

Adult Fish Passage:

At Bonneville dam, daily counts for fall Chinook began on August 1st. Over the last week, Chinook adult counts have been increasing at Bonneville Dam with August 29th and 30th passing 6,103 and 6,670 adult fish, respectively. As of August 30th, 40,958 fall Chinook adults and 5,067 jacks had passed Bonneville Dam. So far this year, the 2007 Bonneville fall Chinook count is 89% of the 2006 count and is 59% of the 10-year average. Daily counts for adult fall Chinook began August 4th at The Dalles Dam. Daily fall Chinook counts have also been increasing over the last week at the Dalles Dam with counts as high as 1,414 on August 30th, 2007. Fall Chinook counts began August 18th at Rock Island Dam. As of August 29th, the daily fall Chinook counts at Rock Island Dam ranged between 47 and 133.

The 2007 steelhead count at Bonneville Dam was 250,161, as of August 30th. This season, the 2007 Bonneville steelhead count is 121% of the 2006 count and 110% of the 10-year average. The daily steelhead counts at The Dalles Dam ranged between 2,218 and 3,308 for the week with the cumulative count of 91,750. About 37 percent of the steelhead counted at Bonneville has passed The Dalles Dam. The majority of the 46,850 steelhead counted at McNary Dam have moved up into the Snake River with the cumulative count at Ice Harbor now at 18,336 for the season. The cumulative count at Priest Rapids was at 5,491 for the season.

The Coho salmon run at Bonneville has been increasing over the last week with 6,077 adults and 355 jacks counted to date. To date, the 2007 Bonneville coho count is about 53 percent of the 2006 count and 83 percent of the 10-year average. Four chum and 16 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
08/17/07	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
08/24/07	111.2	0.1	111.3	0.0	116.0	7.8	111.7	0.0	112.0	0.0	116.2	1.4	107.7	13.6
08/25/07	73.6	0.2	74.3	0.0	79.4	5.2	81.3	0.0	82.7	0.0	89.0	1.6	89.8	0.8
08/26/07	60.2	0.1	64.7	0.0	64.6	5.5	59.7	0.0	59.4	0.0	71.0	1.4	72.6	0.7
08/27/07	97.4	0.2	99.7	0.0	104.0	0.0	104.0	0.0	102.0	0.0	110.5	1.2	113.2	0.7
08/28/07	113.2	0.1	105.6	0.0	103.2	0.0	100.9	0.0	102.1	0.0	108.6	1.2	98.9	1.4
08/29/07	128.4	0.1	129.9	0.0	122.2	0.0	113.1	0.0	112.4	0.0	103.9	1.6	98.5	0.8
08/30/07	135.8	0.2	132.1	0.0	134.9	0.0	130.9	0.0	127.8	0.0	123.2	2.0	116.4	1.1

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

Date	Dworshak		Brownlee Canyon		Lower Granite		Little Goose		Lower Monumental		Ice Harbor	
	Flow	Spill	Inflow	Outflow	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill
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	9.1	9.1	21.4	13.7	18.8	5.6	17.1	5.0	18.7	8.6
08/24/07	8.0	0.0	9.0	9.3	22.3	9.9	25.0	7.4	23.5	11.5	22.5	12.6
08/25/07	8.0	0.0	8.0	9.2	22.4	9.9	20.6	6.1	20.8	8.8	23.2	13.1
08/26/07	8.0	0.0	8.6	8.9	22.2	9.9	22.3	6.6	22.0	9.9	21.7	11.5
08/27/07	8.0	0.0	8.9	8.8	22.4	9.9	23.6	7.0	22.2	10.2	21.2	11.3
08/28/07	8.0	0.0	8.9	8.8	22.6	9.9	22.3	6.6	22.4	10.3	24.1	15.0
08/29/07	7.8	0.0	9.1	8.9	21.6	9.1	20.2	5.9	20.5	8.4	20.2	10.1
08/30/07	7.8	0.0	---	---	20.6	8.2	18.8	5.6	18.8	6.6	18.6	8.7

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		
08/17/07	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
08/24/07	144.9	87.0	124.8	37.7	120.2	48.7	134.8	86.8	0.0	36.5
08/25/07	119.9	55.0	107.6	32.3	101.7	41.0	126.9	83.6	0.0	31.8
08/26/07	117.0	46.8	112.5	33.9	112.4	44.9	118.0	75.9	0.0	30.6
08/27/07	116.7	46.2	115.1	34.5	112.6	45.1	119.0	76.2	1.3	30.0
08/28/07	132.4	52.5	126.8	38.7	123.8	49.7	131.9	80.1	0.0	40.3
08/29/07	140.3	56.1	139.0	41.8	131.2	52.5	142.5	84.5	0.0	46.5
08/30/07	139.9	79.1	142.7	42.8	136.9	54.7	153.8	86.6	2.0	53.6

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
Little Goose Dam											
	08/22/07	Chinook + Steelhead	13	1	1	7.69%	0.00%	1	0	0	0
	08/28/07	Chinook + Steelhead	3	0	0	0.00%	0.00%	0	0	0	0
Lower Monumental Dam											
	08/26/07	Chinook + Steelhead	3	0	0	0.00%	0.00%	0	0	0	0
Bonneville Dam											
	08/21/07	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	08/25/07	Chinook + Steelhead	25	0	0	0.00%	0.00%	0	0	0	0
	08/28/07	Chinook + Steelhead	31	0	0	0.00%	0.00%	0	0	0	0
McNary Dam											
	08/23/07	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	08/27/07	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	08/30/07	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	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>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>					
	<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>	<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>	<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>	<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>				
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
8/24	105	106	106	24	107	107	108	24	106	106	107	24	101	103	106	24	105	106	107	24
8/25	105	105	106	24	108	108	108	24	106	106	107	24	101	102	104	24	105	106	106	24
8/26	106	106	106	24	107	107	108	24	106	106	106	24	101	101	102	24	105	105	106	24
8/27	105	105	106	24	106	106	107	24	105	105	105	24	101	102	103	24	104	104	105	24
8/28	104	105	105	24	105	106	106	24	104	105	105	24	102	102	103	24	104	104	105	24
8/29	105	105	105	24	106	107	107	24	105	105	106	24	103	104	106	24	105	105	106	24
8/30	105	105	106	24	106	107	107	24	105	106	106	24	103	104	105	24	104	105	105	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>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>					
	<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>	<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>	<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>	<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>				
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
8/24	106	107	108	24	106	107	107	24	107	108	109	24	107	107	108	24	107	107	108	24
8/25	106	107	108	24	106	106	107	24	107	107	108	24	107	107	108	24	107	107	107	24
8/26	106	107	109	24	105	106	106	24	106	107	107	24	106	106	106	24	106	106	106	24
8/27	105	105	106	24	104	105	107	24	105	105	105	24	104	105	105	24	104	105	105	24
8/28	103	104	105	24	104	105	106	24	104	105	106	24	104	104	105	24	104	105	105	24
8/29	105	105	106	24	105	106	106	24	104	105	106	24	104	105	105	24	104	105	105	24
8/30	104	105	105	24	106	107	108	24	106	107	107	24	105	105	105	24	105	105	105	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>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>					
	<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>	<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>	<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>	<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>				
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	105	108	109	24	110	111	113	24	110	112	113	24
8/24	106	107	108	24	107	108	109	24	104	106	107	24	108	108	108	24	109	109	110	24
8/25	106	107	107	24	107	108	108	24	105	105	105	24	106	106	106	24	107	108	108	24
8/26	105	105	107	24	106	107	108	24	102	103	103	24	104	104	105	24	104	104	104	24
8/27	104	105	105	24	105	105	105	24	101	102	104	24	103	103	104	24	102	103	104	24
8/28	104	104	105	24	104	105	105	24	100	101	102	24	104	104	105	24	103	104	104	24
8/29	105	105	106	24	105	105	106	24	102	104	105	24	105	105	105	24	105	106	106	24
8/30	105	106	106	24	105	106	106	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	<u>Priest R. Dnst</u>				<u>Pasco</u>				<u>Dworshak</u>				<u>Clwrtr-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>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>	
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	112	113	113	24	108	109	110	24	100	101	101	24	101	103	104	24	102	103	104	24
8/24	111	112	113	24	108	109	109	24	100	101	101	24	101	103	104	24	102	103	105	24
8/25	107	107	108	24	108	108	109	24	100	101	101	23	101	103	104	23	102	103	104	24
8/26	104	105	105	24	104	105	106	24	100	100	101	24	101	102	104	24	101	102	104	24
8/27	103	103	103	24	103	103	104	24	100	100	100	24	100	102	103	24	101	102	103	24
8/28	103	104	105	24	102	103	103	24	99	100	100	24	100	102	103	24	101	102	104	24
8/29	105	106	106	24	103	104	104	24	100	100	100	24	100	102	103	24	102	103	105	24
8/30	---	---	---	0	104	105	106	24	100	100	101	24	101	102	103	24	101	103	104	24

Total Dissolved Gas Saturation Data at Snake River Sites

Date	<u>Clwrtr-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>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>	
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
8/24	103	105	107	24	99	99	99	24	109	109	110	24	103	104	104	24	106	107	107	24
8/25	103	105	107	23	99	99	99	24	109	110	110	24	103	103	104	24	106	106	106	24
8/26	102	104	106	24	99	99	100	24	109	109	109	24	105	105	106	24	106	107	107	24
8/27	102	104	106	24	99	100	100	24	109	109	109	24	104	104	105	24	106	107	108	24
8/28	102	104	106	24	101	101	101	24	109	109	110	24	105	105	106	24	106	107	107	24
8/29	102	105	107	24	101	101	102	24	109	109	110	24	106	107	107	24	107	107	107	24
8/30	102	104	106	24	101	101	102	24	109	109	109	24	106	106	106	24	106	106	107	24

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>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>	
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
8/24	106	106	106	24	113	114	114	24	106	106	107	24	110	111	112	24	---	---	---	0
8/25	105	106	106	24	110	111	112	24	107	107	107	24	110	111	112	24	---	---	---	0
8/26	104	105	105	24	112	113	113	24	108	108	108	24	110	111	111	24	---	---	---	0
8/27	104	104	105	24	111	112	113	24	108	109	109	24	110	111	112	24	---	---	---	0
8/28	105	105	106	24	111	112	113	24	108	108	109	24	110	111	113	24	---	---	---	0
8/29	103	104	104	24	110	112	115	24	108	108	108	18	110	111	111	18	---	---	---	0
8/30	102	102	103	24	110	111	111	24	107	107	108	19	110	111	111	19	---	---	---	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>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>#</u>	<u>24h</u>	<u>AVG</u>	<u>High</u>	<u>#</u>	
	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	AVG	High	hr
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
8/24	107	108	108	24	114	114	114	24	103	103	104	24	114	115	115	24	107	108	108	24
8/25	107	107	108	24	116	117	118	24	103	103	103	24	113	114	114	24	106	106	107	24
8/26	106	107	108	24	117	118	118	24	103	103	103	24	113	114	114	24	104	104	104	24
8/27	105	106	106	24	117	117	118	24	102	103	103	24	114	114	115	24	104	104	105	24
8/28	105	106	106	24	117	118	118	24	103	104	104	24	114	115	115	24	106	107	107	24
8/29	105	106	106	24	117	118	118	24	104	105	105	24	115	115	116	24	107	107	107	7
8/30	104	104	104	24	115	116	118	24	105	105	105	24	115	117	119	24	108	108	109	18

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>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>#</u>	<u>24h</u>	<u>AVG</u>	<u>High</u>	<u>#</u>	
	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	AVG	High	hr
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
8/24	114	115	115	24	108	108	109	24	---	---	---	0	114	115	116	24	115	117	118	24
8/25	113	113	114	24	107	107	108	24	---	---	---	0	112	113	114	24	115	116	118	24
8/26	111	112	112	24	105	105	106	24	---	---	---	0	111	111	113	24	114	114	114	24
8/27	112	112	113	24	104	104	104	24	---	---	---	0	111	113	114	24	114	114	114	24
8/28	113	114	115	24	105	105	106	24	---	---	---	0	113	114	114	24	114	115	117	24
8/29	114	115	115	24	106	107	108	24	---	---	---	0	111	112	114	24	115	116	118	24
8/30	115	115	115	24	109	111	111	24	---	---	---	0	112	115	116	24	115	116	117	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/currentsmptsubmitdata.asp>

COMBINED YEARLING CHINOOK											
	WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2
Date	(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)
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	2	0	0	0	0
08/24/2007	---	---	---	---	0	0	0	0	0	0	0
08/25/2007 *	---	---	---	---	0	0	2	0	0	0	---
08/26/2007 *	---	---	---	---	0	1	0	0	0	0	0
08/27/2007 *	---	---	---	---	0	0	0	0	0	0	---
08/28/2007	---	---	---	---	0	0	0	0	0	0	0
08/29/2007 *	---	---	---	---	0	0	0	0	0	0	0
08/30/2007 *	---	---	---	---	0	0	0	0	0	0	0
08/31/2007	---	---	---	---	---	---	---	---	---	---	---
<hr/>											
Total:	0	0	0	0	0	2	8	1	0	72	0
# Days:	0	0	0	0	14	14	14	14	14	14	11
Average:	0	0	0	0	0	0	1	0	0	5	0
YTD	43,491	86,299	15,108	6,553	2,247,460	655,134	355,692	23,768	2,224,857	4,262,628	1,949,995

COMBINED SUBYEARLING CHINOOK											
	WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2
Date	(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)
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 *	---	---	---	---	13	55	32	31	2,830	0	1,644
08/24/2007	---	---	---	---	92	65	35	31	6,863	1,247	1,219
08/25/2007 *	---	---	---	---	38	112	6	25	5,929	0	---
08/26/2007 *	---	---	---	---	99	124	2	33	3,242	0	684
08/27/2007 *	---	---	---	---	49	83	5	9	4,374	0	---
08/28/2007	---	---	---	---	95	66	2	12	2,171	2,745	267
08/29/2007 *	---	---	---	---	100	22	4	25	1,675	0	429
08/30/2007 *	---	---	---	---	79	19	2	43	2,777	0	715
08/31/2007	---	---	---	---	---	---	---	---	---	---	---
<hr/>											
Total:	0	0	0	0	1,195	924	376	474	46,646	10,458	17,849
# Days:	0	0	0	0	14	14	14	14	14	14	11
Average:	0	0	0	0	85	66	27	34	3,332	747	1,623
YTD	0	83	90	255	327,487	437,067	78,500	15,666	4,706,067	3,003,208	4,064,522

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)
08/17/2007	---	---	---	---	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	*	---	---	---	0	1	0	0	0	0	0
08/24/2007		---	---	---	5	1	2	0	0	0	0
08/25/2007	*	---	---	---	0	0	0	0	0	0	---
08/26/2007	*	---	---	---	0	3	0	0	0	0	0
08/27/2007	*	---	---	---	0	0	2	0	0	0	---
08/28/2007		---	---	---	2	1	0	0	0	0	0
08/29/2007	*	---	---	---	0	1	0	0	0	0	0
08/30/2007	*	---	---	---	0	0	0	0	0	0	0
08/31/2007		---	---	---	---	---	---	---	---	---	---
<hr/>											
Total:	0	0	0	0	11	17	4	0	0	0	4
# Days:	0	0	0	0	14	14	14	14	14	14	11
Average:	0	0	0	0	1	1	0	0	0	0	0
YTD	0	0	0	57	50,720	55,839	18,034	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)
08/17/2007	---	---	---	---	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	*	---	---	---	0	27	7	0	0	0	0
08/24/2007		---	---	---	0	16	16	0	0	20	0
08/25/2007	*	---	---	---	2	20	10	0	0	0	---
08/26/2007	*	---	---	---	2	40	14	0	0	0	0
08/27/2007	*	---	---	---	0	20	16	0	0	0	---
08/28/2007		---	---	---	0	16	6	0	0	14	0
08/29/2007	*	---	---	---	0	17	2	1	0	0	0
08/30/2007	*	---	---	---	2	36	7	1	0	0	0
08/31/2007		---	---	---	---	---	---	---	---	---	---
<hr/>											
Total:	0	0	0	0	25	327	124	3	9	106	0
# Days:	0	0	0	0	14	14	14	14	14	14	11
Average:	0	0	0	0	2	23	9	0	1	8	0
YTD	3,734	46,002	1,940	7,792	1,859,321	1,870,617	740,845	18,554	376,491	961,338	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)
08/17/2007	---	---	---	---	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	0	0
08/24/2007		---	---	---	0	0	0	0	0	0	0
08/25/2007	*	---	---	---	0	0	0	0	0	0	---
08/26/2007	*	---	---	---	0	0	0	0	0	0	0
08/27/2007	*	---	---	---	0	0	0	0	0	0	---
08/28/2007		---	---	---	0	0	0	0	0	0	0
08/29/2007	*	---	---	---	0	0	0	0	0	0	0
08/30/2007	*	---	---	---	0	0	0	0	0	0	0
08/31/2007		---	---	---	---	---	---	---	---	---	---
Total:		0	0	0	0	0	2	0	9	0	0
# Days:		0	0	0	14	14	14	14	14	14	11
Average:		0	0	0	0	0	0	0	1	0	0
YTD		27	0	0	413	20,682	17,121	5,737	16,427	513,727	790,330

* 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:

8/31/07 10:31 AM

08/17/07 TO 08/31/07

		Species						
Site	Data	CH0	CH1	CO	SO	ST	Grand Total	
LGR	Sum of NumberCollected	561			4		8	573
	Sum of NumberBarged	0			0		0	0
	Sum of NumberBypassed	0			0		0	0
	Sum of Numbertrucked	544			4		5	553
	Sum of SampleMorts	14			0		3	17
	Sum of FacilityMorts	3			0		0	3
	Sum of ResearchMorts	0			0		0	0
	Sum of TotalProjectMorts	17			0		3	20
LGS	Sum of NumberCollected	627	2	12			211	852
	Sum of NumberBarged	0	0	0			0	0
	Sum of NumberBypassed	416	1	0			0	417
	Sum of Numbertrucked	181	1	12			206	400
	Sum of SampleMorts	1	0	0			3	4
	Sum of FacilityMorts	1	0	0			2	3
	Sum of ResearchMorts	28	0	0			0	28
	Sum of TotalProjectMorts	30	0	0			5	35
LMN	Sum of NumberCollected	210	4	2		1	69	286
	Sum of NumberBarged	0	0	0		0	0	0
	Sum of NumberBypassed	5	1	0		0	6	12
	Sum of Numbertrucked	167	3	2		1	61	234
	Sum of SampleMorts	37	0	0		0	2	39
	Sum of FacilityMorts	1	0	0		0	0	1
	Sum of ResearchMorts	0	0	0		0	0	0
	Sum of TotalProjectMorts	38	0	0		0	2	40
MCN	Sum of NumberCollected	22,906				5	5	22,916
	Sum of NumberBarged	0				0	0	0
	Sum of NumberBypassed	1,356				0	0	1,356
	Sum of Numbertrucked	21,262				5	5	21,272
	Sum of SampleMorts	61				0	0	61
	Sum of FacilityMorts	227				0	0	227
	Sum of ResearchMorts	0				0	0	0
	Sum of TotalProjectMorts	288				0	0	288
Total Sum of NumberCollected		24,304	6	18		6	293	24,627
Total Sum of NumberBarged		0	0	0		0	0	0
Total Sum of NumberBypassed		1,777	2	0		0	6	1,785
Total Sum of Numbertrucked		22,154	4	18		6	277	22,459
Total Sum of SampleMorts		113	0	0		0	8	121
Total Sum of FacilityMorts		232	0	0		0	2	234
Total Sum of ResearchMorts		28	0	0		0	0	28
Total Sum of TotalProjectMorts		373	0	0		0	10	383

YTD Transportation Summary

Source: Fish Passage Center

Updated:

8/31/07 10:31 AM

TO: **08/31/07**

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	190,032	1,578,085	38,279	15,920	1,367,787	3,190,103
	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	544	0	4	0	5	553
	Sum of SampleMorts	270	57	1	2	35	365
	Sum of FacilityMorts	1,355	1,008	19	22	462	2,866
	Sum of ResearchMorts	1,227	880	0	0	0	2,107
	Sum of TotalProjectMorts	2,852	1,945	20	24	497	5,338
LGS	Sum of NumberCollected	303,736	463,097	40,009	12,005	1,320,419	2,139,266
	Sum of NumberBarged	297,602	398,141	39,431	11,553	1,197,581	1,944,308
	Sum of NumberBypassed	5,435	64,721	541	433	121,828	192,958
	Sum of NumberTrucked	181	1	12	0	206	400
	Sum of SampleMorts	100	31	20	3	58	212
	Sum of FacilityMorts	249	198	5	16	746	1,214
	Sum of ResearchMorts	168	7	0	0	0	175
	Sum of TotalProjectMorts	517	236	25	19	804	1,601
LMN	Sum of NumberCollected	42,624	279,229	13,530	4,156	574,301	913,840
	Sum of NumberBarged	38,111	270,566	13,505	4,130	562,245	888,557
	Sum of NumberBypassed	4,099	8,184	21	2	11,486	23,792
	Sum of NumberTrucked	167	3	2	1	61	234
	Sum of SampleMorts	125	30	0	0	82	237
	Sum of FacilityMorts	122	393	2	23	444	984
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	247	423	2	23	526	1,221
MCN	Sum of NumberCollected	2,385,546	1,316,847	58,662	304,451	222,757	4,288,263
	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	21,262	0	0	5	5	21,272
	Sum of SampleMorts	1,071	142	4	58	33	1,308
	Sum of FacilityMorts	1,422	819	11	447	366	3,065
	Sum of ResearchMorts	241	13	0	2	0	256
	Sum of TotalProjectMorts	2,734	974	15	507	399	4,629
Total Sum of NumberCollected		2,921,938	3,637,258	150,480	336,532	3,485,264	10,531,472
Total Sum of NumberBarged		482,241	1,793,738	89,759	31,223	2,945,377	5,342,338
Total Sum of NumberBypassed		2,411,193	1,839,887	60,641	304,730	537,401	5,153,852
Total Sum of NumberTrucked		22,154	4	18	6	277	22,459
Total Sum of SampleMorts		1,566	260	25	63	208	2,122
Total Sum of FacilityMorts		3,148	2,418	37	508	2,018	8,129
Total Sum of ResearchMorts		1,636	900	0	2	0	2,538
Total Sum of TotalProjectMorts		6,350	3,578	62	573	2,226	12,789

Cumulative Adult Passage at Mainstem Dams Through: 08/30

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	08/30	66624	16606	96456	2908	156175	8234	47882	13686	97519	4355	69317	7971	40958	5067	45964	3740	69618	5579
TDA	08/30	52795	15406	61827	2176	108412	6003	40653	11409	81219	3620	59863	5873	14727	2297	18586	2107	27445	2677
JDA	08/30	43379	13663	50313	2093	90974	4767	36191	11717	73814	4150	55712	5893	7677	1777	10440	1963	15549	1995
MCN	08/29	38852	12252	45887	2475	83968	5029	33008	9508	62571	3389	54019	5480	4876	929	5455	869	8174	1070
IHR	08/29	28047	7308	25434	875	56277	3172	8015	2584	8540	545	11570	1861	1265	108	839	145	690	98
LMN	08/30	26963	6934	23589	548	53700	2904	11836	1526	9926	523	11188	1521	923	126	943	174	581	108
LGS	08/30	23953	7227	20836	733	51418	2974	7898	2861	8156	596	9645	1792	544	68	566	65	360	49
LGR	08/30	22481	8971	22530	973	51737	3293	7703	3393	7058	662	9688	1964	447	68	423	83	235	52
PRD	08/27	6708	489	8535	81	17371	512	30644	1088	57236	556	48735	2050	1933	280	2526	444	3127	384
RIS	08/29	5572	2066	9643	483	14040	762	28222	6200	61821	2086	45655	4765	1190	451	1612	265	1756	479
RRH	08/29	2424	920	5376	274	5343	306	21657	5110	41234	1744	33778	3271	1052	303	1209	168	1339	404
WEL	08/29	2041	752	4159	217	3869	205	13243	3571	25671	1944	24782	1610	33	24	218	98	115	29
WFA	08/28	23010	298	36851	189	-	-	0	0	0	0	-	-	32	10	113	1	-	-

DAM	Coho						Sockeye			Steelhead			
	2007		2006		10-Yr Avg.		2007	2006	10-Yr Avg.	10-Yr			Wild 2007
	Adult	Jack	Adult	Jack	Adult	Jack				2007	2006	Avg.	
BON	6077	355	11417	332	7333	492	24371	37054	60816	250161	206515	227187	67736
TDA	412	48	1239	69	508	72	19124	30022	50788	91750	60654	88088	27339
JDA	179	41	445	83	186	30	24214	35382	55212	62108	44945	62843	19336
MCN	3	1	11	1	23	0	18191	29290	46987	46850	25010	43175	14785
IHR	0	0	1	0	2	0	55	47	30	18336	11996	22730	3267
LMN	2	0	1	0	0	0	43	16	31	17121	13706	19653	3803
LGS	0	0	0	0	0	0	37	24	34	9131	6931	13371	1884
LGR	0	0	0	0	0	0	53	14	36	15979	10170	14875	3643
PRD	33	3	28	2	9	0	24640	26705	58340	5491	3361	5765	0
RIS	0	0	0	0	1	0	25113	35106	54181	4827	2810	4977	2218
RRH	0	0	0	0	1	0	20660	25361	37810	3193	2095	3574	1256
WEL	0	0	0	0	0	0	22220	22000	37099	1635	989	2166	800
WFA	16	6	1	0	-	-	0	0	-	18912	24970	-	-

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: 08/31/07

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