



Fish Passage Center Weekly Report #07 - 24

August 17, 2007

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Summary of Events:

Water Supply: Precipitation throughout the Columbia Basin has varied between 0% and 51% of average at individual sub-basins over the first one-half of August. Precipitation above The Dalles has been 35% of average over August. Over the entire water year, precipitation has varied between 71% and 104% 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 1-13		Water Year 2007 October 1, 2006 to August 13, 2007	
	Observed (inches)	% Average	Observed (inches)	% Average
Columbia Above Coulee	0.25	35	22.95	100
SNAKE RIVER ABOVE ICE HARBOR	0.18	49	12.63	77
Columbia Above The Dalles	0.17	35	20.32	95
Kootenai	0.21	29	24.51	104
Clark Fork	0.11	21	15.22	95
Flathead	0.18	26	19.44	92
Pend Oreille/Spokane	0.03	5	25.36	87
Central Washington	0.00	0	7.56	89
SNAKE RIVER PLAIN	0.12	51	7.46	71
SALMON/BOISE/ PAYETTE	0.05	17	14.39	77
Clearwater	0.02	3	25.80	90
SW WASHINGTON CASCADIA/COWLITZ	0.06	10	65.67	97
Willamette Valley	0.01	2	57.45	100

Grand Coulee Reservoir is at 1281.3 feet (8-16-07) and drafted 2.5 feet last week. Outflows at Grand Coulee ranged between 100.5 and 140.4 Kcfs last week. The summer end of August draft limit at Grand Coulee is 1278 feet.

Dworshak is currently at an elevation of 1548.9 feet (8-16-07) and drafted 6.3 feet last week. Outflows at Dworshak have been approximately 7.9 Kcfs.

The Libby Reservoir is currently at elevation 2445.0 feet (8-16-07) and drafted 2.6 feet last week. Outflows at Libby are currently at 17.3 Kcfs and will remain at this level through August.

Hungry Horse is currently at an elevation of 3547.3 feet (8-16-07) and drafted 2.0 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 16th, 2007, drafting 1.4 feet last week. Outflows at Brownlee Dam have been 8.6 to 12.5 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 172.6 Kcfs over the summer season to date and 160.6 Kcfs last week.

The summer Biological Opinion flow at Lower Granite Dam is 50 Kcfs this year. Flows at Lower Granite Dam have averaged 30.7 Kcfs over the summer season to date and 24.4 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 Little Goose Dam over the past several days resulted in a powerhouse flow of 5 Kcfs with all additional flow being spilled. The project capacity should increase to one unit later today.

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, which the project has met over the past week. 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 1 and 2, but gradually increased over the week as temperatures cooled.

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. Only one fish with minor signs of GBT was observed at Rock Island Dam this past week.

Smolt Monitoring: Subyearling indices decreased this past week at all SMP sites. Steelhead smolts continue to show up at Lower Snake River dams this year well beyond the end of their active migration season. Particularly at Little Goose Dam these fish are occurring in numbers equal to or greater than subyearling Chinook, which is very unusual. Likely the very low flows have delayed these fish. What few PIT-tagged fish there are suggest that travel times between Lower Granite Dam and Little Goose Dam, for steelhead, at this time of year are very long, taking up to two months.

At Lower Granite Dam, there was a decrease in the average subyearling passage index, with the average this week at 150 per day compared to 200 per day last week. Indices of subyearling Chinook decreased at Little Goose and Lower Monumental dams this past week.

At Rock Island Dam, the subyearling index was down this past week, averaging 92 per day this week compared to 135 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 26,000 this week compared to 44,000 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 14,800 compared to 22,600 last week. At Bonneville Dam the index averaged 5,000 this week compared to 7,400 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 nor are there any 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 16th, 7,452 fall Chinook adults and 1,352 jacks had passed Bonneville Dam. This season, the 2007 Bonneville fall Chinook count has 32 more Chinook than the 2006 count and is about 82.5 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 235 to 472 at The Dalles Dam as of August 16th, with a total count of 3,619. A total of 33,008 summer Chinook have passed McNary Dam for the season. The 2007 McNary summer Chinook count was about 52.7 percent of the 2006 count and 61.1

percent of the 10-year average. The adult summer Chinook count at Lower Granite Dam is counted through August 18th. As of August 16th, 7,671 summer Chinook adults had been counted at Lower Granite Dam. The 2007 adult summer Chinook count at Rock Island Dam in the upper Columbia River was 28,008 with daily totals ranging from 98 to 199.

As of August 16th, 165,877 steelhead had passed Bonneville Dam which was 1.21 times greater than the 2006 count. The 2007 Bonneville steelhead count was about 93.8 percent of the 10-year average. The daily steelhead counts at The Dalles Dam ranged between 1,378 and 2,496 for the week with the cumulative count of 53,670. About 32.3 percent of the steelhead counted at Bonneville has passed The Dalles Dam. The majority of the 28,032 steelhead counted at McNary Dam have moved up into the Snake River with the cumulative count at Ice Harbor now at 11,251 for the season. The cumulative count at Priest Rapids was at 2,974 for the season.

Adult sockeye counts at Bonneville were at 24,362 as of August 16th. This year's sockeye count is about 65.7 percent of the 2006 count and 40.0 percent of the 10-year average count. About 24,614 of the adult sockeye have been counted at Priest Rapids Dam. This year's count is about 92.1 percent of the 2006 adult sockeye count at Priest Rapids Dam and 42.2 percent of the 10-year average. Two of the major spawning sites for sockeye are Lake Wenatchee and Lake Ososyoos (Okanogan basin). To date, only 55 sockeye have been counted at Ice Harbor Dam in the Snake River.

The coho salmon run at Bonneville is just beginning with 120 adults and 29 jacks counted to date. Four chum and 2 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
08/03/07	131.4	0.2	127.9	0.0	130.9	8.5	127.7	10.3	127.8	25.2	115.6	5.4	108.3	21.0
08/04/07	108.4	0.1	109.9	0.0	115.5	8.2	118.8	9.8	122.1	21.9	128.6	1.6	125.1	21.9
08/05/07	79.7	0.1	86.6	0.0	86.7	6.4	82.3	10.0	83.8	21.8	89.8	1.4	87.6	21.4
08/06/07	116.4	0.2	106.2	0.0	107.9	7.2	107.1	11.8	110.0	27.4	112.7	1.5	108.1	21.8
08/07/07	117.5	0.2	122.8	0.0	123.4	8.2	119.7	11.3	119.4	27.2	113.8	1.8	107.1	22.8
08/08/07	127.9	0.1	122.5	0.0	125.9	8.1	122.3	10.5	120.8	24.1	131.7	1.8	133.4	21.6
08/09/07	123.9	0.1	135.2	0.0	140.4	8.9	133.7	10.1	132.7	24.0	133.3	4.2	128.2	23.6
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

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
08/03/07	9.9	0.0	8.1	10.2	27.0	14.5	24.7	7.4	24.4	12.2	25.7	15.6
08/04/07	9.9	0.0	10.0	10.4	26.1	13.5	26.0	7.8	25.4	13.1	25.2	15.0
08/05/07	10.0	0.0	9.3	10.6	26.0	13.3	26.3	7.9	25.2	13.0	25.0	14.7
08/06/07	9.9	0.0	10.4	10.1	26.9	14.6	25.4	7.6	24.4	11.9	25.4	15.1
08/07/07	10.0	0.0	9.9	10.9	26.0	13.4	24.8	7.4	24.0	11.8	21.9	12.0
08/08/07	10.0	0.0	9.4	10.3	25.8	13.3	25.0	7.4	23.7	11.4	24.0	13.7
08/09/07	10.0	0.0	8.6	11.2	25.9	13.3	27.5	8.1	26.5	14.3	26.2	16.1
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	---	---	22.7	10.3	22.4	16.9	24.3	12.2	23.6	13.3

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		
08/03/07	159.2	87.9	144.1	43.4	137.9	55.1	167.3	95.2	0.0	60.6
08/04/07	143.5	86.2	136.8	41.1	136.6	54.4	135.5	88.7	0.0	35.3
08/05/07	143.5	64.2	136.9	41.2	129.5	52.1	142.4	92.8	0.0	38.1
08/06/07	146.6	58.6	125.1	37.6	123.6	49.7	140.5	93.0	0.0	36.1
08/07/07	142.4	80.7	135.9	40.6	129.7	52.2	137.4	91.0	0.0	34.7
08/08/07	154.7	92.7	145.4	43.6	145.6	57.9	151.0	93.4	0.4	45.7
08/09/07	159.4	70.3	147.4	44.5	144.3	57.8	152.8	97.7	0.0	43.6
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

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											
	08/07/07	Chinook + Steelhead	54	7	7	12.96%	0.00%	7	0	0	0
	08/14/07	Chinook + Steelhead	3	0	0	0.00%	0.00%	0	0	0	0
Lower Monumental Dam											
	08/12/07	Chinook + Steelhead	4	0	0	0.00%	0.00%	0	0	0	0
McNary Dam											
	08/10/07	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	08/12/07	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	08/16/07	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
Bonneville Dam											
	08/08/07	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	08/14/07	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
Rock Island Dam											
	08/10/07	Chinook + Steelhead	50	0	0	0.00%	0.00%	0	0	0	0
	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>High</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>24 h</u>	<u>12 h</u>	<u>High</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>hr</u>	<u>Avg</u>		<u>Avg</u>	<u>hr</u>		<u>Avg</u>	<u>Avg</u>		<u>hr</u>	<u>Avg</u>	<u>Avg</u>		<u>hr</u>	<u>Avg</u>	<u>Avg</u>	<u>hr</u>
8/3	108	108	108	24	111	111	112	24	111	111	111	24	108	109	110	24	109	110	110	24
8/4	108	108	108	24	110	111	112	24	110	111	111	24	108	109	110	24	109	109	109	24
8/5	107	108	108	24	110	110	111	24	110	111	111	24	108	110	111	24	109	109	110	24
8/6	107	107	108	24	110	110	110	24	111	111	111	24	109	110	112	24	109	110	110	24
8/7	107	107	107	24	110	110	111	24	110	111	111	24	109	109	112	24	109	110	110	24
8/8	106	106	107	24	110	110	111	24	110	110	110	24	108	109	111	24	108	109	109	24
8/9	106	107	107	24	110	111	113	24	109	109	110	24	108	108	110	24	107	108	108	24
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

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>24 h</u>	<u>12 h</u>	<u>High</u>	<u>24 h</u>	<u>12 h</u>	<u>High</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>hr</u>	<u>Avg</u>		<u>Avg</u>	<u>hr</u>		<u>Avg</u>	<u>Avg</u>		<u>hr</u>	<u>Avg</u>	<u>Avg</u>		<u>hr</u>	<u>Avg</u>	<u>Avg</u>	<u>hr</u>
8/3	109	109	110	24	109	110	110	24	110	111	112	24	110	110	111	24	110	111	111	24
8/4	109	109	110	24	109	110	111	24	111	112	112	24	109	109	110	24	110	110	110	24
8/5	109	110	111	24	110	112	113	24	111	112	113	24	110	110	111	24	110	111	111	24
8/6	109	110	111	24	110	111	111	24	111	112	113	24	110	111	111	24	111	111	112	24
8/7	110	110	111	24	109	110	111	24	111	111	112	24	110	110	111	24	111	111	111	24
8/8	108	109	109	24	109	109	110	24	110	111	111	24	109	109	110	24	110	110	110	24
8/9	107	107	108	24	108	109	110	24	110	111	111	24	108	109	109	24	109	109	110	24
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

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>24 h</u>	<u>12 h</u>	<u>High</u>	<u>24 h</u>	<u>12 h</u>	<u>High</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>hr</u>	<u>Avg</u>		<u>Avg</u>	<u>hr</u>		<u>Avg</u>	<u>Avg</u>		<u>hr</u>	<u>Avg</u>	<u>Avg</u>		<u>hr</u>	<u>Avg</u>	<u>Avg</u>	<u>hr</u>
8/3	111	111	112	24	116	116	118	24	---	---	---	0	112	114	119	24	110	111	113	24
8/4	110	111	112	24	114	115	118	24	---	---	---	0	110	110	111	24	108	109	111	24
8/5	110	111	112	24	116	117	119	24	---	---	---	0	110	111	111	24	109	110	110	24
8/6	111	112	112	24	117	118	120	24	108	110	111	18	111	111	111	24	110	110	111	24
8/7	111	111	111	24	116	117	119	24	108	108	109	24	109	109	110	24	108	109	110	24
8/8	110	111	111	24	116	116	119	24	106	107	108	24	107	107	108	24	106	106	107	24
8/9	109	110	111	24	114	115	117	24	107	108	110	24	108	110	111	24	106	107	108	24
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	---	---	---	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>		#
	Avg	Avg	High	hr		Avg	Avg	High	hr		Avg	Avg	High	hr		Avg	Avg	High	hr	
8/3	112	113	113	24	110	111	112	24	100	100	100	24	102	103	104	24	102	103	105	24
8/4	111	112	113	24	108	109	109	24	100	100	100	24	101	103	104	24	101	103	104	24
8/5	111	112	112	24	108	108	109	24	100	100	100	24	101	102	104	24	101	103	104	24
8/6	111	112	112	24	108	109	110	24	100	100	101	24	101	102	103	24	101	102	103	24
8/7	111	112	112	24	106	107	108	24	100	100	101	24	102	103	104	24	101	103	104	24
8/8	110	110	111	24	106	107	108	24	100	100	100	24	101	102	104	24	101	103	104	24
8/9	109	110	111	24	106	107	107	24	100	100	101	24	101	103	104	24	101	103	104	24
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	---	---	---	0	109	109	110	24	101	101	101	24	102	103	104	24	101	102	103	24

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>		#
	Avg	Avg	High	hr		Avg	Avg	High	hr		Avg	Avg	High	hr		Avg	Avg	High	hr	
8/3	104	106	107	24	102	102	102	24	111	111	112	24	107	107	107	24	107	107	107	24
8/4	103	106	107	24	102	102	103	24	110	111	111	24	106	106	107	24	107	108	108	24
8/5	103	105	107	24	102	103	103	24	111	111	112	24	106	106	106	24	107	108	108	24
8/6	103	105	106	24	103	103	104	24	112	112	112	24	106	107	107	24	107	108	108	24
8/7	103	105	107	24	103	103	103	24	111	111	112	24	107	107	107	24	107	107	107	24
8/8	103	105	107	24	102	102	102	24	110	110	111	24	105	105	106	24	106	107	107	24
8/9	103	105	107	24	101	102	102	24	110	111	111	24	104	105	105	24	107	107	108	24
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

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>		#
	Avg	Avg	High	hr		Avg	Avg	High	hr		Avg	Avg	High	hr		Avg	Avg	High	hr	
8/3	105	105	105	24	112	113	114	24	109	110	110	24	111	112	112	24	---	---	---	0
8/4	105	106	106	24	112	113	114	24	110	110	111	24	110	111	112	24	---	---	---	0
8/5	106	106	106	24	113	114	114	24	111	111	112	24	111	111	112	24	---	---	---	0
8/6	106	106	106	24	113	113	114	24	112	112	112	24	111	113	114	24	---	---	---	0
8/7	104	105	105	24	112	112	113	24	110	111	111	24	110	111	111	24	---	---	---	0
8/8	104	104	104	24	112	112	113	24	108	108	109	24	110	111	112	24	---	---	---	0
8/9	104	104	105	24	112	113	114	24	107	108	108	24	110	111	112	24	---	---	---	0
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

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>					
	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	AVG	High	hr				
8/3	109	109	109	24	116	117	117	24	104	104	104	24	114	115	115	24	106	106	107	24
8/4	108	109	109	24	114	116	117	24	104	104	105	24	114	115	115	24	105	105	105	24
8/5	109	109	110	24	117	118	118	24	105	105	106	24	114	115	116	24	106	106	107	24
8/6	109	109	110	24	117	118	118	24	105	105	106	24	113	114	115	24	106	106	106	24
8/7	107	107	107	24	113	114	116	24	104	104	105	24	113	115	117	24	104	104	105	24
8/8	105	105	106	24	113	114	116	24	103	103	103	24	114	115	116	24	104	104	104	24
8/9	103	104	104	24	115	117	117	24	102	102	102	24	114	115	117	24	104	105	105	24
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

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>					
	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr				
8/3	113	113	114	24	107	107	108	24	---	---	---	0	111	113	115	24	116	117	120	24
8/4	112	112	113	24	105	105	106	24	---	---	---	0	110	112	114	24	115	117	119	24
8/5	113	113	114	24	104	105	105	24	---	---	---	0	112	113	115	21	116	117	119	24
8/6	113	113	113	24	104	104	104	24	---	---	---	0	112	113	114	21	116	117	120	24
8/7	111	112	112	24	103	103	103	24	---	---	---	0	112	113	114	24	115	117	120	24
8/8	111	112	112	24	103	103	103	24	---	---	---	0	113	114	116	24	116	117	121	24
8/9	111	111	112	24	104	104	104	24	---	---	---	0	112	113	115	24	116	118	121	24
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

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>

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)
08/03/2007	*	---	---	---	---	0	0	0	0	0	0
08/04/2007	*	---	---	---	---	0	0	0	0	---	0
08/05/2007	*	---	---	---	---	0	3	0	0	0	0
08/06/2007	*	---	---	---	---	0	0	0	0	---	0
08/07/2007		---	---	---	---	0	1	0	0	0	0
08/08/2007	*	---	---	---	---	0	0	0	0	---	0
08/09/2007	*	---	---	---	---	0	0	0	0	0	0
08/10/2007	*	---	---	---	---	0	0	0	0	---	0
08/11/2007	*	---	---	---	---	0	0	0	0	0	0
08/12/2007	*	---	---	---	---	0	0	0	0	---	0
08/13/2007	*	---	---	---	---	0	0	0	0	0	0
08/14/2007	*	---	---	---	---	0	0	0	1	---	0
08/15/2007	*	---	---	---	---	0	0	0	0	17	0
08/16/2007	*	---	---	---	---	0	0	0	0	---	0
08/17/2007		---	---	---	---	---	---	---	---	---	---
<hr/>											
Total:	0	0	0	0	0	4	0	1	17	0	0
# Days:	0	0	0	0	14	14	14	14	7	14	9
Average:	0	0	0	0	0	0	0	0	2	0	0
YTD	43,491	86,299	15,108	6,553	2,247,460	655,132	355,684	23,767	2,224,857	4,262,556	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)
08/03/2007	*	---	---	---	---	174	265	39	255	83,404	27,842
08/04/2007	*	---	---	---	---	189	284	50	112	---	0
08/05/2007	*	---	---	---	---	230	222	17	138	18,713	0
08/06/2007	*	---	---	---	---	278	274	47	145	---	0
08/07/2007		---	---	---	---	214	351	8	105	65,127	17,525
08/08/2007	*	---	---	---	---	199	236	20	126	---	0
08/09/2007	*	---	---	---	---	179	134	4	65	9,649	0
08/10/2007	*	---	---	---	---	303	251	5	120	---	12,078
08/11/2007	*	---	---	---	---	157	208	0	82	57,936	0
08/12/2007	*	---	---	---	---	169	90	30	84	---	0
08/13/2007	*	---	---	---	---	133	115	15	55	8,633	0
08/14/2007	*	---	---	---	---	102	158	18	88	---	17,513
08/15/2007	*	---	---	---	---	90	44	28	132	12,905	0
08/16/2007	*	---	---	---	---	101	0	26	85	---	0
08/17/2007		---	---	---	---	---	---	---	---	---	---
<hr/>											
Total:	0	0	0	0	2,518	2,632	307	1,592	256,367	74,958	55,331
# Days:	0	0	0	0	14	14	14	14	7	14	9
Average:	0	0	0	0	180	188	22	114	36,624	5,354	6,148
YTD	0	83	90	255	326,292	436,143	78,124	15,192	4,659,421	2,992,750	4,046,673

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)
08/03/2007	*	---	---	---	---	0	9	0	0	0	0
08/04/2007	*	---	---	---	---	2	0	8	1	---	0
08/05/2007	*	---	---	---	---	4	9	0	0	0	0
08/06/2007	*	---	---	---	---	0	6	0	0	---	0
08/07/2007		---	---	---	---	0	1	0	0	0	0
08/08/2007	*	---	---	---	---	0	7	0	0	---	0
08/09/2007	*	---	---	---	---	0	9	0	0	0	0
08/10/2007	*	---	---	---	---	0	1	0	0	---	0
08/11/2007	*	---	---	---	---	0	1	0	0	0	0
08/12/2007	*	---	---	---	---	2	13	0	0	---	0
08/13/2007	*	---	---	---	---	0	3	0	0	0	0
08/14/2007	*	---	---	---	---	2	0	0	0	---	0
08/15/2007	*	---	---	---	---	0	13	0	0	0	27
08/16/2007	*	---	---	---	---	0	5	0	0	---	0
08/17/2007		---	---	---	---	---	---	---	---	---	---
<hr/>											
Total:	0	0	0	0	10	77	8	1	0	0	27
# Days:	0	0	0	0	14	14	14	14	7	14	9
Average:	0	0	0	0	1	6	1	0	0	0	3
YTD	0	0	0	57	50,709	55,822	18,030	64,419	99,127	347,366	628,451

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)
08/03/2007	*	---	---	---	---	4	574	48	3	0	820
08/04/2007	*	---	---	---	---	0	522	12	0	---	0
08/05/2007	*	---	---	---	---	6	162	17	0	65	0
08/06/2007	*	---	---	---	---	0	133	43	1	---	0
08/07/2007		---	---	---	---	0	377	12	2	0	0
08/08/2007	*	---	---	---	---	0	288	16	1	---	0
08/09/2007	*	---	---	---	---	2	138	4	1	0	0
08/10/2007	*	---	---	---	---	2	83	5	1	---	0
08/11/2007	*	---	---	---	---	2	60	0	0	0	0
08/12/2007	*	---	---	---	---	2	43	9	2	---	0
08/13/2007	*	---	---	---	---	0	27	11	0	0	0
08/14/2007	*	---	---	---	---	4	61	8	1	---	0
08/15/2007	*	---	---	---	---	0	133	6	0	0	0
08/16/2007	*	---	---	---	---	2	47	6	2	---	0
08/17/2007		---	---	---	---	---	---	---	---	---	---
<hr/>											
Total:	0	0	0	0	24	2,648	197	14	65	820	16
# Days:	0	0	0	0	14	14	14	14	7	14	9
Average:	0	0	0	0	2	189	14	1	9	59	2
YTD	3,734	46,002	1,940	7,792	1,859,296	1,870,290	740,721	18,551	376,482	961,232	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)	
08/03/2007	*	---	---	---	---	0	0	0	0	0	0	0
08/04/2007	*	---	---	---	---	0	0	0	0	---	0	---
08/05/2007	*	---	---	---	---	0	0	0	0	0	0	0
08/06/2007	*	---	---	---	---	0	0	0	0	---	0	---
08/07/2007		---	---	---	---	0	0	0	0	0	0	0
08/08/2007	*	---	---	---	---	0	0	0	0	---	0	---
08/09/2007	*	---	---	---	---	0	0	0	0	0	0	0
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		---	---	---	---	---	---	---	---	---	---	---
<hr/>												
Total:		0	0	0	0	0	0	0	0	17	0	0
# Days:		0	0	0	0	14	14	14	14	7	14	9
Average:		0	0	0	0	0	0	0	0	2	0	0
YTD		27	0	0	413	20,682	17,121	5,735	16,427	513,718	790,330	171,307

* 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:

8/17/07 9:35 AM

08/03/07 TO 08/17/07

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	1,201			5	12	1,218
	Sum of NumberBarged	1,176			5	12	1,193
	Sum of NumberBypassed	1			0	0	1
	Sum of Numbertrucked	0			0	0	0
	Sum of SampleMorts	21			0	0	21
	Sum of FacilityMorts	3			0	0	3
	Sum of ResearchMorts	0			0	0	0
	Sum of TotalProjectMorts	24			0	0	24
LGS	Sum of NumberCollected	1,732	3	45		1,723	3,503
	Sum of NumberBarged	1,021	2	44		1,706	2,773
	Sum of NumberBypassed	684	0	0		0	684
	Sum of Numbertrucked	0	0	0		0	0
	Sum of SampleMorts	10	0	1		4	15
	Sum of FacilityMorts	7	1	0		13	21
	Sum of ResearchMorts	10	0	0		0	10
	Sum of TotalProjectMorts	27	1	1		17	46
LMN	Sum of NumberCollected	148		4		93	245
	Sum of NumberBarged	130		4		83	217
	Sum of NumberBypassed	2		0		10	12
	Sum of Numbertrucked	0		0		0	0
	Sum of SampleMorts	6		0		0	6
	Sum of FacilityMorts	10		0		0	10
	Sum of ResearchMorts	0		0		0	0
	Sum of TotalProjectMorts	16		0		0	16
MCN	Sum of NumberCollected	141,585	10			10	141,630
	Sum of NumberBarged	0	0			0	0
	Sum of NumberBypassed	141,041	9			10	141,085
	Sum of Numbertrucked	0	0			0	0
	Sum of SampleMorts	426	1			0	427
	Sum of FacilityMorts	118	0			0	118
	Sum of ResearchMorts	0	0			0	0
	Sum of TotalProjectMorts	544	1			0	545
Total Sum of NumberCollected		144,666	13	54	10	1,853	146,596
Total Sum of NumberBarged		2,327	2	53	0	1,801	4,183
Total Sum of NumberBypassed		141,728	9	0	10	35	141,782
Total Sum of Numbertrucked		0	0	0	0	0	0
Total Sum of SampleMorts		463	1	1	0	4	469
Total Sum of FacilityMorts		138	1	0	0	13	152
Total Sum of ResearchMorts		10	0	0	0	0	10
Total Sum of TotalProjectMorts		611	2	1	0	17	631

YTD Transportation Summary

Source: Fish Passage Center

Updated:

8/17/07 9:35 AM

TO: 08/17/07

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	189,471	1,578,085	38,275	15,920	1,367,779	3,189,530
	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	0	0	0	0	0	0
	Sum of SampleMorts	256	57	1	2	32	348
	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	2,835	1,945	20	24	494	5,318
LGS	Sum of NumberCollected	303,109	463,095	39,997	12,005	1,320,208	2,138,414
	Sum of NumberBarged	297,602	398,141	39,431	11,553	1,197,581	1,944,308
	Sum of NumberBypassed	5,019	64,720	541	433	121,828	192,541
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	99	31	20	3	55	208
	Sum of FacilityMorts	248	198	5	16	744	1,211
	Sum of ResearchMorts	140	7	0	0	0	147
	Sum of TotalProjectMorts	487	236	25	19	799	1,566
LMN	Sum of NumberCollected	42,414	279,225	13,528	4,155	574,232	913,554
	Sum of NumberBarged	38,111	270,566	13,505	4,130	562,245	888,557
	Sum of NumberBypassed	4,094	8,183	21	2	11,480	23,780
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	88	30	0	0	80	198
	Sum of FacilityMorts	121	393	2	23	444	983
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	209	423	2	23	524	1,181
MCN	Sum of NumberCollected	2,362,640	1,316,847	58,662	304,446	222,752	4,265,347
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	2,360,195	1,315,873	58,647	303,939	222,353	4,261,007
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	1,010	142	4	58	33	1,247
	Sum of FacilityMorts	1,195	819	11	447	366	2,838
	Sum of ResearchMorts	241	13	0	2	0	256
	Sum of TotalProjectMorts	2,446	974	15	507	399	4,341
Total Sum of NumberCollected		2,897,634	3,637,252	150,462	336,526	3,484,971	10,506,845
Total Sum of NumberBarged		482,241	1,793,738	89,759	31,223	2,945,377	5,342,338
Total Sum of NumberBypassed		2,409,416	1,839,885	60,641	304,730	537,395	5,152,067
Total Sum of NumberTrucked		0	0	0	0	0	0
Total Sum of SampleMorts		1,453	260	25	63	200	2,001
Total Sum of FacilityMorts		2,916	2,418	37	508	2,016	7,895
Total Sum of ResearchMorts		1,608	900	0	2	0	2,510
Total Sum of TotalProjectMorts		5,977	3,578	62	573	2,216	12,406

Cumulative Adult Passage at Mainstem Dams Through: 08/16

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	08/16	66624	16606	96456	2908	156175	8234	47882	13686	97519	4355	69317	7971	7452	1352	7420	852	9030	1254
TDA	08/16	52795	15406	61827	2176	108412	6003	40653	11409	81219	3620	59863	5873	3619	911	4068	521	4383	832
JDA	08/16	43379	13663	50313	2093	90974	4767	36191	11717	73814	4150	55712	5893	1863	712	2709	533	2449	661
MCN	08/15	38852	12252	45887	2475	83968	5029	33008	9508	62571	3389	54019	5480	898	249	1548	206	1405	308
IHR	08/15	28047	7308	25434	875	56277	3172	8015	2584	8540	545	11570	1861	131	11	102	17	52	6
LMN	08/16	26963	6934	23589	548	53700	2904	11836	1526	9926	523	11188	1521	98	11	104	28	40	13
LGS	08/16	23953	7227	20836	733	51418	2974	7898	2861	8156	596	9645	1792	22	2	18	2	9	3
LGR	08/16	22481	8971	22530	973	51737	3293	7671	3385	7039	656	9679	1962	0	0	0	0	0	0
PRD	08/13	6712	489	8535	81	17371	512	30644	1088	57236	556	48735	2050	0	0	0	0	0	0
RIS	08/15	5572	2066	9643	483	14040	762	28008	6113	61150	2031	45146	4660	0	0	0	0	0	0
RRH	08/15	2424	920	5376	274	5343	306	21211	4986	40253	1659	32904	3091	0	0	0	0	0	0
WEL	08/15	2040	752	4159	217	3869	205	12295	3068	23596	1199	22680	1224	0	0	0	0	0	0
WFA	08/15	23010	296	36851	189	7160	102	0	0	0	0	0	0	0	0	0	0	0	0

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	120	29	392	34	173	28	24362	37049	60814	165877	136686	176786	50983
TDA	9	-2	16	3	3	1	19123	30010	50784	53670	32318	64145	18757
JDA	3	1	9	8	4	1	24201	35363	55205	35957	28076	45874	12462
MCN	0	0	0	0	0	0	18178	29266	46981	28032	17025	32721	9487
IHR	0	0	0	0	0	0	55	44	30	11251	7582	15954	1959
LMN	0	0	0	0	0	0	43	15	31	12829	8768	13659	2847
LGS	0	0	0	0	0	0	37	22	34	6283	4677	8864	1437
LGR	0	0	0	0	0	0	53	14	36	13947	8881	11551	3165
PRD	0	1	0	0	7	0	24614	26703	58254	2974	1925	3997	0
RIS	0	0	0	0	1	0	25049	35049	54003	2462	1550	3233	1210
RRH	0	0	0	0	1	0	20564	25290	37680	1669	1136	2199	661
WEL	0	0	0	0	0	0	21621	21789	36855	787	443	1118	412
WFA	2	0	0	0	0	0	0	0	0	18639	24720	4283	0

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: 08/17/07

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