



Fish Passage Center Weekly Report #06 - 21

July 28, 2006

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

Summary of Events:

Water Supply: Precipitation throughout the Columbia Basin has varied between 77% and 186% of average at individual sub-basins over July. Precipitation above The Dalles over July has been 118% of average. Over the entire water year, precipitation has been average or above average at all list locations.

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

Location	Water Year 2006 July 1-24		Water Year 2006 October 1, 2005 to July 24, 2006	
	Observed (inches)	% Average	Observed (inches)	% Average
Columbia Above Coulee	2.71	113	22.49	110
SNAKE RIVER ABOVE ICE HARBOR	1.36	93	18.57	123
Columbia Above The Dalles	2.12	118	22.14	112
Kootenai	2.68	109	23.82	113
Clark Fork	2.11	109	16.84	119
Flathead	3.57	135	22.52	120
Pend Oreille/Spokane	3.37	154	31.65	116
Central Washington	1.19	186	10.95	138
SNAKE RIVER PLAIN	0.97	101	11.81	123
Salmon/Boise/Payette	1.56	106	23.50	133
Clearwater	2.67	107	29.49	110
SW Washington Cascades/Cowlitz	2.27	77	65.99	101
Willamette Valley	2.16	96	61.17	109

Table 2 displays the May Final, June Final, and July Final runoff volume forecasts for multiple reservoirs. The July Final forecast at The Dalles between January and July is 114000 Kaf (106% of average). The forecast at Libby has increased 12% between the June final and July Final forecast.

Table 2. May Final, June Final, and July Final Runoff Volume Forecasts for various reservoirs within the Columbia and Snake River Basins.

Location	May Final		June Final		July Final	
	% Average (1971- 2000)	Probable Runoff Volume (Kaf)	% Average (1971- 2000)	Probable Runoff Volume (Kaf)	% Average (1971- 2000)	Probable Runoff Volume (Kaf)
The Dalles (Jan-July)	103	110000	103	111000	106	114000
Grand Coulee (Jan-July)	98	61900	101	63300	106	66900
Libby Res. Inflow, MT (Jan-July)	98	6160	101	6360	113	7120
Hungry Horse Res. Inflow, MT (Jan-July)	101	2250	106	2360	109	2430
Lower Granite Res. Inflow (Apr-July)	126	27100	124	26700	116	25100
Brownlee Res. Inflow (Apr-July)	143	9020	141	8910	138	8710
Dworshak Res. Inflow (Apr-July)	101	2670	106	2800	105	2770

Grand Coulee Reservoir is at 1285.2 feet (7-27-06) and has drafted 2.4 feet over the last week. Inflow has ranged from 108.6 to 125.1 Kcfs, while outflow has ranged between 106.3 and 145.6 Kcfs.

The Libby Reservoir is currently at elevation 2454.1 feet (7-27-06) and drafted 1.5 feet last week. Outflows are currently 14.1 Kcfs.

Hungry Horse is currently at an elevation of 3552.8 feet (7-27-06) and has drafted approximately 1.7 feet in the last week. Hungry Horse outflows have ranged between 3.2 and 5.4 Kcfs. Inflows ranged between 1.1 and 2.4 Kcfs over the same period.

Dworshak is currently at an elevation of 1573 feet (7-27-06) and drafted approximately 8.1 feet last week. Outflows at Dworshak were decreased from approximately 14 Kcfs to 12 Kcfs on July 24, 2006. At the July 26 TMT, it was agreed to further drop outflows to full powerhouse capacity (approximately 9.5 Kcfs) late today.

The Brownlee Reservoir was at an elevation of 2060.5 feet on July 27th, 2006. Outflows at Hells Canyon have ranged between 13.1 and 17.7 Kcfs over the last week.

According to the June Final Water Supply Forecast, the flow objective this summer is 54.5 Kcfs at Lower Granite (began 6-21-06) and 200 Kcfs at McNary (began 7-1-06). From June 21 to July 27 flows have averaged 46.8 Kcfs at Lower Granite, over the last week flows have averaged 37.6 Kcfs at Lower Granite. Between July 1 and July 27, flows at McNary have averaged 192.4 Kcfs, over the last week flows have averaged 177.3 Kcfs.

Spill: Spill at Dworshak Dam has averaged 25% of average daily flow over the past week. Spill operations for fish passage are being implemented in accordance with the December 29, 2005 District Court Order and Opinion. Summer spill began on June 21 at the Snake River projects. Spill at Lower Granite, Little Goose, Lower Monumental, and Ice Harbor dams averaged 45%, 31%, 42%, and 70%, of average daily flow over the past week, respectively. Spill at Lower Granite Dam is supposed to be 18 Kcfs according to the Court's Order. However, over the past week spill has ranged from a low of 16.5 to a high of 17.3 Kcfs, which according to the COE was due to an error in the teletype sent to the project and will be remedied. At Little Goose Dam spill has met the Court's Order. At Lower Monumental Dam spill was decreased from 17 Kcfs to 13.5 Kcfs on July 25th because total dissolved gas at the forebay monitor at Ice Harbor Dam averaged 115.1%. The COE did not increase spill again over the next four days because they believed that an increase in spill might cause them to again exceed the 115% at the Ice Harbor forebay. The COE has reconsidered and expects to increase spill today to the Court Order since the Ice Harbor forebay gas level was only 112.6% on July 27. Spill at Ice Harbor Dam is not occurring as specified in the Court's Order, but this is due to the low flows. Spill is occurring as the water in excess of the amount used to operate one turbine unit at the project. Summer spill was initiated on July 1 at the Lower Columbia River projects.

Spill at McNary, John Day, The Dalles, and Bonneville dams was 49%, 30%, 39%, and 48% of average daily flow, respectively. McNary and John Day dams met the Court's order last week, while The Dalles Dam was close at 39%. Spill at Bonneville Dam was below the Court's Order. Daytime spill levels at Bonneville Dam did not achieve the 75 Kcfs, since the COE instructs the project to spill as close to 75 Kcfs as they can, without exceeding 75 Kcfs. The opening of the spill gates to the next level might cause the project to spill a small increment above the 75 Kcfs dependent on the head on the project. Nighttime spill at this project was restricted to 75 Kcfs (from 120

Kcfs) on July 24 due to TDG exceedances at Camas/Washougal where the high 12 hour average TDG was 117.7%. TDG decreased quickly (117% down to 111%-107%) at Camas/Washougal due to decreased temperatures and increased wind activity. After request the COE agreed to increase nighttime spill again beginning the night of July 27th.

Total dissolved gas levels have met the TDG waiver requirements over the past week at all sites, except Camas/Washougal. Only one sampled fish showed minor signs of GBT, and that was at Rock Island Dam.

Smolt Monitoring: Subyearling Chinook salmon predominate the run at all sites as they have for the past several weeks. Small numbers of spring migrants continue to be detected in the system. Subyearling indices decreased at all sites over the past week.

At Lower Granite Dam, subyearling Chinook indices averaged roughly 600 per day over the past week compared to 1,000 per day the previous week, while at Little Goose and Lower Monumental Dam the subyearling index averaged 600 and 300 (respectively) per day this week.

At Rock Island Dam indices for subyearlings averaged 200 per day this week compared to 400 per day last week. At McNary Dam, subyearling indices were down, averaging 16,000 this week compared to 40,000 per day over the previous week. At John Day Dam, where sampling is limited to every other day due to high temperatures, subyearling indices averaged 13,000 per day this week compared to 35,000 per day last week. At Bonneville Dam subyearling indices also decreased with this weeks' average index at 8,800 per day, compared to 18,000 fish per day last week. Bonneville sampling has also been reduced due to high temperatures. In fact, with the recent heat wave, temperatures exceeded 72 degrees F, at which point sampling ceased, for one day, as per the 2006 Fish Passage Plan. With temperatures below 72 again, sampling has commenced. However, when temperatures are at or above 70, sampling crews will work up fish more frequently to reduce holding time at the site.

Adult Fish Passage: At Bonneville dam, daily counts of summer Chinook averaged 549 fish for the week ending July 27. The season total is now 95,931 fish, about 123% and 161% of the respective 2005 and 10-year average counts. The adult summer Chinook count at The Dalles Dam through July 27 was 78,575 fish, about 82% of the Bonneville passage total to date. About 58,513 of the summer Chinook have passed McNary Dam (as of July 27) with the majority moving upstream into the Mid-Columbia River. Daily counts at Rock Island Dam ranged between 491 and 964 during the week.

At Bonneville Dam, steelhead counts again increased throughout the week with the average daily count of 2,367 per day. Through July 27, the steelhead run at Bonneville Dam was 50,362, 65% and 63% of the respective 2005 and 10-year average counts. The daily counts at The Dalles Dam ranged between 344 and 758 for the week with the cumulative steelhead count through July 27 at 17,559. About 35% of the steelhead counted at Bonneville Dam have passed The Dalles Dam. The majority of the 10,956 steelhead counted at McNary Dam have moved up into the Snake River with the cumulative count at Ice Harbor Dam now at 5,413 for the season. The cumulative count at Priest Rapids Dam is 821 for the season.

Adult sockeye salmon passage at Bonneville Dam averaged 57 fish per day through the week with the count at Bonneville through July 27 at 36,831, about 51% and 62% of the respective 2005 and 10-year average counts. About 26,376 of the adult sockeye have been counted at Priest Rapids Dam. One of the major spawning sites for the sockeye is Lake Wenatchee with the other site at Lake Osoyoos (Okanogan basin). To date, 43 sockeye have been counted into the Snake River.

Hatchery Releases: No hatchery releases are scheduled for the next two weeks.

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
07/14/06	146.9	0.2	140.1	0.0	144.7	8.5	141.5	11.2	142.3	25.3	150.0	21.2	144.0	26.8
07/15/06	129.9	0.2	139.7	0.0	151.8	22.3	148.6	9.6	151.3	23.0	161.8	28.1	155.1	32.2
07/16/06	98.6	0.2	99.1	0.0	103.6	7.3	113.7	8.5	119.7	19.2	138.3	9.3	138.4	22.6
07/17/06	123.9	0.2	128.6	0.0	131.0	8.3	125.5	12.0	125.2	28.7	126.1	1.6	121.8	21.3
07/18/06	131.0	0.2	130.5	0.0	133.6	10.0	131.3	13.3	131.2	30.1	134.4	1.9	127.3	23.3
07/19/06	130.9	0.2	127.5	0.0	139.7	9.9	142.4	12.3	144.4	27.9	152.8	11.6	149.5	22.3
07/20/06	132.1	0.2	129.0	0.0	127.6	8.5	123.3	12.3	125.0	27.4	140.3	5.1	136.9	23.2
07/21/06	121.2	0.2	128.9	0.0	133.4	8.0	129.9	11.9	129.0	26.7	126.1	2.7	121.3	21.2
07/22/06	125.3	0.2	122.1	0.0	127.6	8.3	128.1	9.5	131.7	21.6	137.2	6.9	131.3	22.5
07/23/06	106.3	0.2	106.2	0.0	106.4	7.9	100.3	6.7	104.7	15.9	120.2	4.0	120.7	24.1
07/24/06	137.1	0.2	132.3	0.0	136.7	8.8	137.3	10.6	136.4	25.0	131.6	3.2	125.7	20.7
07/25/06	115.2	0.2	122.6	0.0	127.8	9.2	132.5	11.7	136.7	25.6	146.3	17.5	139.5	24.8
07/26/06	110.5	0.2	111.9	0.0	115.8	7.5	114.4	11.2	115.1	24.8	131.0	2.7	131.9	20.2
07/27/06	145.6	0.2	139.0	0.0	139.7	8.4	135.3	11.7	135.1	26.0	133.7	4.4	134.1	21.9

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
07/14/06	11.2	1.6	13.6	18.0	40.7	17.9	40.0	12.3	40.3	16.1	40.7	29.6
07/15/06	11.2	1.6	13.2	15.1	42.5	18.2	42.2	13.1	40.9	14.8	42.4	30.6
07/16/06	11.2	1.6	13.5	16.5	39.0	18.3	36.9	11.5	36.9	16.6	37.9	27.6
07/17/06	11.2	1.6	12.4	17.0	38.6	18.1	39.0	12.1	39.0	16.8	38.9	28.6
07/18/06	11.2	1.5	12.9	18.2	42.4	18.1	41.8	12.7	40.6	16.6	42.1	18.3
07/19/06	12.2	2.5	11.9	13.9	39.0	17.9	37.9	11.7	38.2	16.8	38.0	15.7
07/20/06	13.8	4.2	12.8	17.8	37.6	17.9	35.0	10.8	36.2	16.8	34.6	21.9
07/21/06	14.0	4.3	11.8	17.2	42.6	17.3	44.3	13.2	43.8	16.8	48.0	36.2
07/22/06	13.9	4.2	11.9	15.7	38.2	16.4	38.3	12.0	37.9	16.6	39.5	28.5
07/23/06	13.6	3.9	12.3	17.7	39.8	16.4	38.8	12.0	38.6	16.8	39.1	27.9
07/24/06	13.5	3.8	11.7	17.6	39.2	16.5	40.2	11.7	39.5	16.5	41.4	30.0
07/25/06	12.0	2.2	11.7	14.0	37.3	16.5	34.1	10.7	33.6	15.5	33.2	22.3
07/26/06	12.0	2.2	10.9	13.1	33.5	16.5	31.2	9.9	31.3	13.5	31.4	20.1
07/27/06	12.0	2.2	---	---	32.8	17.0	33.5	10.5	33.9	13.5	35.9	24.8

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

Date	McNary		John Day		The Dalles		Bonneville			
	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	PH1	PH2
07/14/06	178.1	99.2	173.5	52.3	172.5	67.7	194.1	92.1	3.9	86.5
07/15/06	193.8	114.5	157.7	47.0	151.5	60.5	176.6	91.1	0.0	74.0
07/16/06	187.6	81.9	184.2	54.9	173.8	69.4	171.6	88.8	0.0	71.2
07/17/06	208.7	82.4	199.7	59.2	191.3	75.2	195.2	89.1	35.2	59.4
07/18/06	179.2	72.5	168.3	50.6	165.4	66.2	178.2	92.1	2.9	71.6
07/19/06	172.3	68.2	160.2	47.5	157.9	62.4	166.1	90.1	0.1	64.5
07/20/06	193.6	107.9	180.4	53.3	176.3	69.4	183.6	92.3	1.9	77.9
07/21/06	184.7	109.5	173.8	51.8	176.3	69.5	194.5	89.7	9.0	84.3
07/22/06	176.6	78.8	148.3	44.0	142.8	56.0	158.8	86.6	0.0	60.7
07/23/06	162.1	64.0	154.8	46.1	149.3	59.1	160.4	86.3	0.0	62.7
07/24/06	186.0	80.6	176.8	52.2	176.0	69.4	180.4	82.8	12.3	73.7
07/25/06	176.6	69.5	157.9	46.7	151.6	59.1	161.3	74.4	2.5	73.0
07/26/06	195.2	111.2	190.5	57.6	185.9	73.6	193.9	75.1	11.1	96.2
07/27/06	159.8	95.7	152.4	45.6	151.3	59.7	162.7	80.0	0.0	71.2

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											
	07/18/06	Chinook + Steelhead	49	1	1	2.04%	0.00%	1	0	0	0
Lower Monumental Dam											
	07/24/06	Chinook + Steelhead	24	0	0	0.00%	0.00%	0	0	0	0
McNary Dam											
	07/20/06	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	07/24/06	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
Bonneville Dam											
	07/18/06	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	07/21/06	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	07/26/06	Chinook + Steelhead	85	0	0	0.00%	0.00%	0	0	0	0
Rock Island Dam											
	07/20/06	Chinook + Steelhead	100	2	2	2.00%	0.00%	2	0	0	0
	07/24/06	Chinook + Steelhead	100	1	1	1.00%	0.00%	1	0	0	0
	07/27/06	Chinook + Steelhead	99	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>High</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</u>
	<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>		
7/14	107	107	107	24	116	116	117	14	119	120	120	24	117	117	118	14	115	116	116	24
7/15	107	107	107	24	116	117	118	24	119	119	119	24	116	117	120	24	116	116	116	24
7/16	106	107	107	24	116	116	117	24	118	118	119	24	116	117	119	24	116	116	116	24
7/17	107	107	108	24	116	117	118	24	118	119	119	24	115	116	120	24	116	116	117	24
7/18	107	107	107	24	116	116	117	24	118	118	118	24	115	116	119	24	116	116	117	24
7/19	107	107	108	24	115	115	116	24	117	118	118	24	115	116	118	24	115	115	116	24
7/20	107	107	107	24	115	115	116	24	115	116	117	24	114	115	118	24	114	115	115	24
7/21	107	107	107	24	113	114	115	24	114	114	115	24	114	115	117	24	114	115	115	24
7/22	107	108	108	24	112	113	114	16	114	115	116	24	114	115	120	16	115	115	115	24
7/23	108	108	109	24	113	114	115	24	113	114	114	24	115	117	121	24	115	116	116	24
7/24	108	109	109	24	114	114	115	24	113	114	115	24	114	116	119	24	115	115	116	24
7/25	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
7/26	108	108	109	24	116	116	117	24	113	113	114	24	113	114	117	24	114	115	115	24
7/27	108	108	109	24	116	117	118	24	113	114	114	24	113	114	116	24	114	114	115	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>#</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</u>
	<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>		
7/14	115	115	116	24	114	114	114	22	114	115	115	22	112	113	113	24	113	113	113	24
7/15	115	116	116	24	114	114	114	24	116	118	121	24	113	113	113	24	113	113	114	24
7/16	115	116	117	24	114	115	115	24	115	115	116	24	113	114	115	24	113	114	115	24
7/17	116	116	116	24	114	115	115	24	115	116	117	24	115	116	116	24	115	116	116	24
7/18	116	116	117	24	114	114	115	24	115	116	116	24	113	113	113	24	113	113	114	24
7/19	115	116	116	24	115	115	116	24	116	117	118	24	114	114	115	24	114	115	115	24
7/20	115	115	115	24	114	114	115	23	115	116	116	23	114	115	115	24	114	114	114	24
7/21	115	115	115	24	114	115	116	24	115	116	117	24	115	115	116	24	115	116	116	24
7/22	115	115	116	23	115	115	116	24	116	116	117	24	115	116	116	24	115	115	116	24
7/23	115	116	117	24	115	116	117	24	116	117	118	24	116	116	117	24	116	116	116	24
7/24	115	115	116	24	115	116	116	24	116	117	117	24	116	116	116	23	116	116	116	24
7/25	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
7/26	114	115	116	24	113	114	115	24	115	116	116	24	114	114	115	24	114	115	115	24
7/27	114	114	115	24	114	114	115	24	115	115	116	24	114	114	115	24	114	115	115	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>#</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</u>
	<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>		
7/14	113	113	113	24	116	117	117	24	111	112	113	23	113	114	114	23	112	112	113	23
7/15	112	113	113	24	116	117	117	24	111	112	113	23	113	114	118	23	112	113	114	23
7/16	112	113	113	24	113	116	116	24	111	113	114	23	113	114	116	23	112	113	115	23
7/17	113	114	116	24	112	119	120	24	111	112	112	23	112	113	113	23	111	111	112	23
7/18	113	113	114	24	118	119	119	24	---	---	---	0	---	---	---	0	---	---	---	0
7/19	113	113	114	24	118	119	119	24	110	112	113	23	112	113	114	23	109	110	111	23
7/20	114	114	115	24	118	119	120	24	---	---	---	0	---	---	---	0	---	---	---	0
7/21	115	116	116	24	119	120	122	24	---	---	---	0	---	---	---	0	---	---	---	0
7/22	115	116	116	24	118	119	119	24	---	---	---	0	---	---	---	0	---	---	---	0
7/23	115	116	117	24	118	119	119	24	---	---	---	0	---	---	---	0	---	---	---	0
7/24	115	116	117	24	119	119	120	24	---	---	---	0	---	---	---	0	---	---	---	0
7/25	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
7/26	114	115	115	24	118	119	120	24	---	---	---	0	---	---	---	0	---	---	---	0
7/27	114	115	116	24	118	119	120	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>	High	#	<u>24 h</u>	<u>12 h</u>	High	#	<u>24 h</u>	<u>12 h</u>	High	#	<u>24 h</u>	<u>12 h</u>	High		#			
	Avg	Avg		hr	Avg	Avg		hr	Avg	Avg		hr	Avg	Avg			hr	Avg	Avg	hr
7/14	114	115	116	23	110	110	111	24	103	103	103	24	105	106	107	24	102	104	105	24
7/15	114	115	116	23	110	110	111	24	103	103	103	24	104	106	107	24	102	103	104	24
7/16	114	114	115	23	110	111	111	24	102	103	103	24	104	106	107	24	102	103	104	24
7/17	113	113	114	23	109	110	111	24	102	103	103	24	104	106	107	24	102	103	104	24
7/18	---	---	---	0	108	109	110	24	102	103	103	24	104	105	106	24	102	103	104	24
7/19	112	113	113	23	109	109	110	24	105	107	108	24	105	107	108	24	102	103	104	24
7/20	---	---	---	0	109	110	110	24	108	109	109	24	108	109	110	24	101	103	104	24
7/21	---	---	---	0	110	111	112	24	108	109	109	24	108	110	111	24	102	103	104	24
7/22	---	---	---	0	112	112	113	24	108	109	109	24	109	110	111	24	102	103	104	24
7/23	---	---	---	0	112	113	113	24	108	108	109	24	109	110	111	24	101	102	103	24
7/24	---	---	---	0	112	113	113	24	108	109	109	24	109	110	111	24	101	102	103	24
7/25	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
7/26	---	---	---	0	110	110	111	24	104	104	104	24	105	107	108	24	100	101	102	24
7/27	---	---	---	0	109	110	110	24	104	104	104	24	106	107	108	24	101	103	106	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>	High	#	<u>24 h</u>	<u>12 h</u>	High	#	<u>24 h</u>	<u>12 h</u>	High	#	<u>24 h</u>	<u>12 h</u>	High		#			
	Avg	Avg		hr	Avg	Avg		hr	Avg	Avg		hr	Avg	Avg			hr	Avg	Avg	hr
7/14	105	107	109	24	101	101	102	24	112	113	116	24	106	106	107	24	112	113	114	24
7/15	105	107	109	24	101	101	101	24	113	114	114	24	106	107	107	24	112	114	115	24
7/16	105	107	109	24	101	101	102	24	114	115	115	24	107	107	107	16	111	112	113	16
7/17	105	107	109	24	101	102	102	24	112	113	115	24	107	107	108	24	112	113	113	24
7/18	104	107	108	24	102	102	103	24	111	112	113	24	108	108	109	24	112	114	114	24
7/19	104	107	108	24	102	102	103	24	111	112	112	24	107	107	108	24	112	113	114	24
7/20	106	108	110	24	102	102	103	24	111	112	112	24	107	107	107	23	112	113	115	23
7/21	106	109	110	24	102	102	102	24	112	113	114	24	107	107	108	24	113	115	115	24
7/22	107	109	111	24	102	102	102	24	115	115	116	24	107	108	108	24	113	114	114	24
7/23	107	109	111	24	102	103	104	24	115	115	115	24	108	109	109	24	113	114	114	24
7/24	107	109	111	24	104	104	104	24	115	115	116	24	110	110	111	24	113	114	115	24
7/25	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
7/26	105	107	109	24	104	105	106	24	115	115	115	24	111	111	111	24	112	113	114	24
7/27	105	108	109	24	105	105	107	24	115	115	116	24	111	111	112	24	113	113	114	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>	High	#	<u>24 h</u>	<u>12 h</u>	High	#	<u>24 h</u>	<u>12 h</u>	High	#	<u>24 h</u>	<u>12 h</u>	High		#			
	Avg	Avg		hr	Avg	Avg		hr	Avg	Avg		hr	Avg	Avg			hr	Avg	Avg	hr
7/14	108	108	109	24	116	117	118	24	109	109	110	24	112	114	116	24	---	---	---	0
7/15	108	108	109	24	116	117	118	24	109	109	110	24	113	115	116	24	---	---	---	0
7/16	108	109	109	24	116	117	118	24	110	110	111	24	113	114	115	24	---	---	---	0
7/17	109	109	109	24	116	117	117	24	110	110	111	24	113	114	114	24	---	---	---	0
7/18	108	109	110	24	116	117	118	24	110	110	110	24	112	113	114	24	---	---	---	0
7/19	109	109	110	24	116	117	118	24	110	111	111	24	111	112	113	24	---	---	---	0
7/20	109	109	109	24	117	119	120	24	110	110	110	24	112	113	116	24	---	---	---	0
7/21	109	109	110	24	117	118	119	24	111	111	112	24	114	115	116	24	---	---	---	0
7/22	110	110	111	24	117	117	118	24	112	113	114	24	113	114	115	24	---	---	---	0
7/23	111	111	112	24	117	118	119	24	114	114	115	24	113	114	115	24	---	---	---	0
7/24	111	112	112	24	117	118	119	24	115	115	116	24	114	115	116	24	---	---	---	0
7/25	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
7/26	111	111	111	24	114	115	115	23	114	114	115	24	112	114	115	24	---	---	---	0
7/27	110	111	111	24	114	115	115	24	113	114	114	24	113	114	115	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>	<u>24h</u>	<u>AVG</u>	<u>High</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>
7/14	107	107	107	24	116	117	117	24	105	105	105	24	115	117	118	24	108	108	109	24
7/15	107	108	108	24	117	119	123	24	104	105	105	24	114	115	118	24	107	107	108	24
7/16	109	110	110	24	116	116	117	24	104	105	105	24	116	117	119	24	106	107	107	24
7/17	110	110	111	24	115	116	117	24	104	105	105	24	116	118	119	24	106	107	107	24
7/18	109	109	110	24	115	116	116	24	104	104	104	24	115	116	118	24	106	106	106	24
7/19	109	109	110	24	114	116	116	24	104	105	105	24	115	116	118	24	106	106	107	24
7/20	108	109	109	24	116	118	119	24	105	106	107	24	116	117	119	24	107	107	108	24
7/21	109	110	112	24	116	117	117	24	107	107	109	24	115	116	118	24	109	109	109	24
7/22	110	110	112	24	115	116	116	24	108	108	108	24	114	115	115	24	109	110	110	24
7/23	112	112	113	24	114	115	117	24	108	108	109	24	115	116	116	24	109	109	110	24
7/24	113	113	114	24	115	115	117	14	108	109	110	24	116	117	119	24	108	108	109	24
7/25	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
7/26	112	112	113	24	116	118	118	24	108	109	110	24	117	118	119	24	107	108	109	24
7/27	110	111	111	24	117	117	118	24	109	110	110	24	115	116	118	24	109	109	109	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>	<u>24h</u>	<u>12h</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>
7/14	114	114	116	24	108	109	109	24	---	---	---	0	112	114	116	24	116	117	120	17
7/15	113	113	113	24	107	108	108	24	---	---	---	0	111	113	115	24	118	118	121	17
7/16	113	113	114	24	107	107	108	24	---	---	---	0	111	113	115	24	118	118	118	17
7/17	113	113	113	24	106	106	106	24	---	---	---	0	110	112	113	24	117	117	120	11
7/18	112	113	113	24	105	106	106	24	---	---	---	0	110	112	115	24	116	117	119	17
7/19	113	113	113	24	106	107	107	24	---	---	---	0	111	114	116	24	118	118	119	17
7/20	113	113	114	24	107	108	108	24	---	---	---	0	113	116	118	24	118	118	121	17
7/21	114	114	115	24	109	110	111	24	---	---	---	0	113	115	117	24	116	116	118	17
7/22	114	114	114	24	112	113	113	24	---	---	---	0	113	114	116	24	118	118	118	17
7/23	114	114	115	24	113	113	113	24	---	---	---	0	116	118	119	24	118	118	118	17
7/24	114	114	114	24	111	111	112	24	---	---	---	0	115	116	118	24	118	118	118	17
7/25	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	118	118	118	14
7/26	113	114	114	24	105	106	106	24	---	---	---	0	110	111	111	24	117	117	118	17
7/27	114	114	115	24	105	105	105	24	---	---	---	0	108	109	110	24	117	117	118	17

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											
Date	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)
07/14/2006	---	---	---	---	0	3	0	0	17	0	0
07/15/2006	---	---	---	---	0	3	13	0	0	0	0
07/16/2006	---	---	---	---	0	3	3	0	25	143	0
07/17/2006 *	---	---	---	---	0	3	11	0	17	0	0
07/18/2006	---	---	---	---	7	0	0	0	0	0	0
07/19/2006	---	---	---	---	0	3	0	0	0	143	0
07/20/2006	---	---	---	---	0	3	0	0	69	0	0
07/21/2006	---	---	---	---	0	3	0	0	0	0	0
07/22/2006	---	---	---	---	0	9	0	0	51	0	0
07/23/2006	---	---	---	---	4	6	0	0	17	0	0
07/24/2006 *	---	---	---	---	0	0	22	0	0	0	0
07/25/2006	---	---	---	---	0	0	7	2	35	0	0
07/26/2006 *	---	---	---	---	0	1	7	0	17	0	---
07/27/2006	---	---	---	---	0	0	0	0	0	0	0
07/28/2006	---	---	---	---	---	---	---	---	---	---	---
<hr/>											
Total:	0	0	0	0	11	37	63	2	248	286	0
# Days:	0	0	0	0	14	14	14	14	14	14	13
Average:	0	0	0	0	1	3	5	0	18	20	0
YTD	30,897	25,910	13,056	18,995	3,692,699	4,182,423	1,439,231	37,266	1,560,794	2,250,569	2,256,332

COMBINED SUBYEARLING CHINOOK											
Date	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)
07/14/2006	---	---	---	---	1,331	1,207	337	401	76,623	22,982	18,449
07/15/2006	---	---	---	---	747	723	669	664	56,225	47,907	47,416
07/16/2006	---	---	---	---	1,009	1,221	486	679	40,691	32,879	13,182
07/17/2006 *	---	---	---	---	917	929	1,126	460	28,313	53,659	15,671
07/18/2006	---	---	---	---	884	756	369	272	43,526	41,676	12,028
07/19/2006	---	---	---	---	969	1,034	249	290	21,169	18,790	14,407
07/20/2006	---	---	---	---	1,039	729	567	303	15,695	26,845	11,043
07/21/2006	---	---	---	---	907	664	421	215	18,980	29,990	6,603
07/22/2006	---	---	---	---	613	863	297	319	15,207	17,440	7,924
07/23/2006	---	---	---	---	586	928	375	244	10,044	8,431	6,767
07/24/2006 *	---	---	---	---	420	402	277	284	14,210	0	11,473
07/25/2006	---	---	---	---	411	589	630	192	15,780	12,492	9,606
07/26/2006 *	---	---	---	---	395	407	166	133	18,687	0	---
07/27/2006	---	---	---	---	646	441	230	304	20,722	19,262	10,365
07/28/2006	---	---	---	---	---	---	---	---	---	---	---
<hr/>											
Total:	0	0	0	0	10,874	10,893	6,199	4,760	395,872	332,353	184,934
# Days:	0	0	0	0	14	14	14	14	14	14	13
Average:	0	0	0	0	777	778	443	340	28,277	23,740	14,226
YTD	3	30	15	291	741,926	1,123,883	356,475	29,094	3,782,398	2,735,357	3,784,372

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)
07/14/2006	---	---	---	---	0	0	0	3	0	0	27
07/15/2006	---	---	---	---	0	0	0	9	0	0	219
07/16/2006	---	---	---	---	0	0	0	9	0	0	0
07/17/2006	*	---	---	---	0	0	0	5	0	0	0
07/18/2006	---	---	---	---	0	0	0	3	0	0	0
07/19/2006	---	---	---	---	0	0	0	0	0	0	0
07/20/2006	---	---	---	---	0	3	0	3	0	0	0
07/21/2006	---	---	---	---	0	0	0	0	0	0	0
07/22/2006	---	---	---	---	0	0	0	0	0	0	0
07/23/2006	---	---	---	---	0	0	0	1	0	0	0
07/24/2006	*	---	---	---	0	0	0	3	0	0	0
07/25/2006	---	---	---	---	0	0	0	0	0	0	0
07/26/2006	*	---	---	---	0	1	0	1	0	0	---
07/27/2006	---	---	---	---	0	0	0	3	0	0	0
07/28/2006	---	---	---	---	---	---	---	---	---	---	---
<hr/>											
Total:	0	0	0	0	0	4	0	40	0	0	246
# Days:	0	0	0	0	14	14	14	14	14	14	13
Average:	0	0	0	0	0	0	0	3	0	0	19
YTD	0	0	0	49	86,142	133,012	33,976	61,252	102,165	316,645	657,541

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)
07/14/2006	---	---	---	---	0	3	7	0	0	0	0
07/15/2006	---	---	---	---	7	0	6	4	0	0	2
07/16/2006	---	---	---	---	0	0	10	5	25	0	0
07/17/2006	*	---	---	---	0	6	11	3	0	0	0
07/18/2006	---	---	---	---	7	9	0	3	0	0	0
07/19/2006	---	---	---	---	0	10	7	2	0	0	0
07/20/2006	---	---	---	---	7	0	4	0	0	0	0
07/21/2006	---	---	---	---	4	14	6	0	51	0	0
07/22/2006	---	---	---	---	0	12	0	2	0	0	0
07/23/2006	---	---	---	---	0	15	14	1	0	0	0
07/24/2006	*	---	---	---	0	0	0	1	17	0	0
07/25/2006	---	---	---	---	0	3	0	0	0	0	0
07/26/2006	*	---	---	---	0	0	0	0	17	0	---
07/27/2006	---	---	---	---	0	1	0	0	0	0	0
07/28/2006	---	---	---	---	---	---	---	---	---	---	---
<hr/>											
Total:	0	0	0	0	25	73	65	21	110	0	2
# Days:	0	0	0	0	14	14	14	14	14	14	13
Average:	0	0	0	0	2	5	5	2	8	0	0
YTD	1,970	19,014	9,317	3,068	4,483,415	4,376,035	1,265,442	26,919	446,234	1,682,235	271,624

Two-Week Summary of Passage Indices

Date	COMBINED SOCKEYE										
	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)
07/14/2006	---	---	---	---	7	3	0	9	240	0	0
07/15/2006	---	---	---	---	7	3	0	9	26	410	2
07/16/2006	---	---	---	---	0	3	0	6	25	286	0
07/17/2006 *	---	---	---	---	0	0	0	8	34	190	0
07/18/2006	---	---	---	---	7	0	0	5	211	0	0
07/19/2006	---	---	---	---	7	0	0	6	43	0	17
07/20/2006	---	---	---	---	0	0	4	6	0	95	0
07/21/2006	---	---	---	---	4	3	0	8	51	96	0
07/22/2006	---	---	---	---	3	3	0	9	101	143	0
07/23/2006	---	---	---	---	0	0	0	4	51	0	0
07/24/2006 *	---	---	---	---	0	3	0	4	34	0	24
07/25/2006	---	---	---	---	0	1	0	5	35	0	0
07/26/2006 *	---	---	---	---	0	0	0	1	17	0	---
07/27/2006	---	---	---	---	0	0	0	9	52	143	0
07/28/2006	---	---	---	---	---	---	---	---	---	---	---
<hr/>											
Total:	0	0	0	0	35	19	4	89	920	1,363	43
# Days:	0	0	0	0	14	14	14	14	14	14	13
Average:	0	0	0	0	3	1	0	6	66	97	3
YTD	13	0	0	679	51,861	92,633	40,235	34,498	496,196	529,016	407,623

* 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:

7/28/06 8:55 AM

07/14/06 TO 07/28/06

		Species						
Site	Data	CH0	CH1	CO	SO	ST	Grand Total	
LGR	Sum of NumberCollected	5,982	6			20	14	6,022
	Sum of NumberBarged	6,423		5			19	6,457
	Sum of NumberBypassed	0	0			0	0	0
	Sum of Numbertrucked	0	0			0	0	0
	Sum of SampleMorts	27	0			0	1	28
	Sum of FacilityMorts	38	1			1	3	43
	Sum of ResearchMorts	0	0			0	0	0
	Sum of TotalProjectMorts	65	1			1	4	71
LGS	Sum of NumberCollected	7,481	25	3		13	50	7,572
	Sum of NumberBarged	7,676	29	3		19	48	7,775
	Sum of NumberBypassed	9	0	0		0	0	9
	Sum of Numbertrucked	0	0	0		0	0	0
	Sum of SampleMorts	36	0	0		0	1	37
	Sum of FacilityMorts	30	0	0		1	0	31
	Sum of ResearchMorts	0	0	0		0	0	0
	Sum of TotalProjectMorts	66	0	0		1	1	68
LMN	Sum of NumberCollected	3,544	36			2	38	3,620
	Sum of NumberBarged	3,504	36			1	35	3,576
	Sum of NumberBypassed	72	0			0	0	72
	Sum of Numbertrucked	0	0			0	0	0
	Sum of SampleMorts	48	0			1	1	50
	Sum of FacilityMorts	79	0			0	2	81
	Sum of ResearchMorts	0	0			0	0	0
	Sum of TotalProjectMorts	127	0			1	3	131
MCN	Sum of NumberCollected	202,070	130			490	50	202,740
	Sum of NumberBarged	199,618	126			488	49	200,281
	Sum of NumberBypassed	553	0			0	0	553
	Sum of Numbertrucked	0	0			0	0	0
	Sum of SampleMorts	98	1			0	0	99
	Sum of FacilityMorts	1,785	2			2	1	1,790
	Sum of ResearchMorts	16	1			0	0	17
	Sum of TotalProjectMorts	1,899	4			2	1	1,906
Total Sum of NumberCollected		219,077	197	3		525	152	219,954
Total Sum of NumberBarged		217,221	196	3		527	142	218,089
Total Sum of NumberBypassed		634	0	0		0	0	634
Total Sum of Numbertrucked		0	0	0		0	0	0
Total Sum of SampleMorts		209	1	0		1	3	214
Total Sum of FacilityMorts		1,932	3	0		4	6	1,945
Total Sum of ResearchMorts		16	1	0		0	0	17
Total Sum of TotalProjectMorts		2,157	5	0		5	9	2,176

YTD Transportation Summary

Source: Fish Passage Center

Updated:

7/28/06 8:55 AM

TO: 07/28/06

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	476,333	2,407,709	51,160	32,615	2,820,591	5,788,408
	Sum of NumberBarged	457,066	1,964,112	46,802	25,789	2,467,171	4,960,940
	Sum of NumberBypassed	17,386	437,073	4,214	6,237	352,045	816,955
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	254	203	2	30	99	588
	Sum of FacilityMorts	1,269	6,010	140	558	1,219	9,196
	Sum of ResearchMorts	41	311	2	1	57	412
	Sum of TotalProjectMorts	1,564	6,524	144	589	1,375	10,196
LGS	Sum of NumberCollected	764,360	3,131,209	88,076	63,223	3,228,546	7,275,414
	Sum of NumberBarged	753,314	2,746,887	86,458	53,001	2,634,367	6,274,027
	Sum of NumberBypassed	4,264	376,348	1,524	8,895	591,417	982,448
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	154	136	0	23	20	333
	Sum of FacilityMorts	2,989	5,761	94	1,304	739	10,887
	Sum of ResearchMorts	23	22	0	0	1	46
	Sum of TotalProjectMorts	3,166	5,919	94	1,327	760	11,266
LMN	Sum of NumberCollected	248,589	1,096,131	23,183	27,781	935,548	2,331,232
	Sum of NumberBarged	241,686	1,060,695	23,024	27,011	883,883	2,236,299
	Sum of NumberBypassed	6,260	34,451	159	576	51,011	92,457
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	143	47	0	9	34	233
	Sum of FacilityMorts	379	938	0	185	620	2,122
	Sum of ResearchMorts	1	0	0	0	0	1
	Sum of TotalProjectMorts	523	985	0	194	654	2,356
MCN	Sum of NumberCollected	1,963,481	830,072	47,855	252,722	232,033	3,326,163
	Sum of NumberBarged	891,022	296	100	667	59	892,144
	Sum of NumberBypassed	1,065,665	828,856	47,736	251,660	231,814	2,425,731
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	312	117	1	28	13	471
	Sum of FacilityMorts	6,287	761	15	350	141	7,554
	Sum of ResearchMorts	196	42	3	17	6	264
	Sum of TotalProjectMorts	6,795	920	19	395	160	8,289
Total Sum of NumberCollected		3,452,763	7,465,121	210,274	376,341	7,216,718	18,721,217
Total Sum of NumberBarged		2,343,088	5,771,990	156,384	106,468	5,985,480	14,363,410
Total Sum of NumberBypassed		1,093,575	1,676,728	53,633	267,368	1,226,287	4,317,591
Total Sum of NumberTrucked		0	0	0	0	0	0
Total Sum of SampleMorts		863	503	3	90	166	1,625
Total Sum of FacilityMorts		10,924	13,470	249	2,397	2,719	29,759
Total Sum of ResearchMorts		261	375	5	18	64	723
Total Sum of TotalProjectMorts		12,048	14,348	257	2,505	2,949	32,107

Cumulative Adult Passage at Mainstem Dams Through: 07/27

DAM	EndDate	Spring Chinook						Summer Chinook						Fall Chinook					
		2006		2005		10-Yr Avg.		2006		2005		10-Yr Avg.		2006		2005		10-Yr Avg.	
		Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack
BON	07/27	96,456	2,908	74,038	4,288	151,682	8,418	95,931	4,153	77,831	4,368	59,559	7,409	0	0	0	0	0	0
TDA	07/27	61,827	2,176	60,964	3,210	104,618	6,110	78,575	3,348	67,890	3,306	50,887	5,216	0	0	0	0	0	0
JDA	07/26	50,313	2,093	56,027	2,715	87,807	4,857	71,067	3,606	61,104	5,030	46,791	5,026	0	0	0	0	0	0
MCN	07/26	45,355	2,475	51,855	3,201	80,814	5,125	58,513	2,921	60,025	2,729	45,313	4,602	0	0	0	0	0	0
IHR	07/26	25,465	843	28,039	1,267	54,334	3,256	8,394	519	8,586	944	10,843	1,862	0	0	0	0	0	0
LMN	07/26	23,596	551	25,933	1,002	51,936	3,032	9,445	451	8,054	751	10,271	1,497	0	0	0	0	0	0
LGS	07/26	20,839	745	23,995	923	49,856	3,088	7,634	548	6,736	893	8,901	1,767	0	0	0	0	0	0
LGR	07/26	22,963	984	26,028	1,258	49,902	3,362	7,439	636	6,550	998	8,995	1,923	0	0	0	0	0	0
PRD	07/26	8,535	81	14,148	515	16,757	523	50,868	286	55,448	1,750	37,518	1,479	0	0	0	0	0	0
RIS	07/26	9,245	473	11,908	504	13,259	737	51,938	1,262	45,896	2,055	32,607	3,185	0	0	0	0	0	0
RRH	07/26	5,376	274	4,568	417	4,860	283	32,660	1,031	33,351	1,573	22,215	1,911	0	0	0	0	0	0
WEL	07/22	4,043	214	4,897	99	3,488	193	15,359	597	19,627	310	12,744	485	0	0	0	0	0	0
WFA	07/26	34,545	165	35,367	1,179	3,479	87	0	0	0	0	0	0	0	0	0	0	0	0

DAM	Coho						Sockeye			Steelhead			
	2006		2005		10-Yr Avg.		2006	2005	10-Yr Avg.	2006	2005	10-Yr Avg.	Wild 2006
	Adult	Jack	Adult	Jack	Adult	Jack							
BON	0	-1	0	0	2	0	36,831	72,702	59,903	50,362	76,994	80561	20,244
TDA	1	0	1	0	0	0	29,850	65,032	50,088	17,559	33,716	37146	7,785
JDA	0	0	0	0	1	0	35,103	69,071	53,830	19,256	23,398	26992	6,694
MCN	0	0	0	0	0	0	28,951	62,856	46,445	10,956	17,081	17350	3,414
IHR	0	0	0	0	0	0	43	18	27	5,413	6,412	8797	1,429
LMN	0	0	0	0	0	0	13	18	29	6,040	6,429	7524	1,604
LGS	0	0	0	0	0	0	15	13	33	3,593	3,637	5043	1,120
LGR	0	0	0	0	0	0	14	18	34	8,381	7,170	8608	2,483
PRD	2	0	0	1	2	0	26,376	72,528	57,016	821	1,402	1567	0
RIS	0	0	2	0	1	0	34,057	67,660	51,005	529	1,125	1052	332
RRH	0	0	0	0	1	0	24,178	51,397	34,993	409	888	736	257
WEL	0	0	0	0	0	0	17,280	44,743	30,467	130	213	227	65
WFA	0	0	0	0	0	0	0	0	0	28,139	19,011	1802	0

BON and LGR have switched to video counts so the data is delayed.

*PRD is not posting wild steelhead numbers.

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

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

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

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

Page last updated on: 07/28/06

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

Chinook Adult	Chinook Jack	Steelhead	Wild Steelhead
1	0	2,516	238

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

Steelhead
741