



Fish Passage Center Weekly Report #06 - 22

August 4, 2006

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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 1284 feet (8-3-06) and has drafted 0.7 feet over the last week. Grand Coulee's end of August draft target is 1280 feet. Outflow has ranged between 72.5 and 121.2 Kcfs.

The Libby Reservoir is currently at elevation 2452.4 feet (8-3-06) and drafted 1.4 feet last week. Outflows are currently 13.9 Kcfs.

Hungry Horse is currently at an elevation of 3551.7 feet (8-3-06) and has drafted approximately 0.9 feet in the last week. Hungry Horse outflows have been approximately 3.1 Kcfs. Inflows ranged between 0.1 and 2.2 Kcfs over the same period.

Dworshak is currently at an elevation of 1564.4 feet (8-3-06) and drafted approximately 6.7 feet last week. Outflows at Dworshak were decreased to 9.8 Kcfs on July 31, 2006.

The Brownlee Reservoir was at an elevation of 2060.6 feet on Aug 3rd, 2006. Outflows at Hells Canyon have ranged between 8.0 and 14.3 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 August 3 flows have averaged 44.0 Kcfs at Lower Granite, over the last week flows have averaged 29.3 Kcfs at Lower Granite. Between July 1 and Aug 3, flows at McNary have averaged 185.0 Kcfs; over the last week flows have averaged 156.6 Kcfs.

Spill: Spill at Dworshak Dam has averaged 16.8% of average daily flow over the past week. However, there has been no spill at Dworshak over the past three days. Spill operation for fish passage at the Lower Snake River projects began on April 3, 2006 in accordance with the December 29, 2005 District Court Order and Opinion. Summer spill began on June 21 for Lower Snake River projects. Spill at Lower Granite, Little Goose, Lower Monumental, and Ice Harbor dams averaged 49.6%, 32.4%, 47.3%, and 66.8%, of average daily flow over the past week, respectively. Spill at Lower Granite is supposed to be 18 Kcfs according to the Court's order. However, over the past week spill has ranged from 12.9 Kcfs to 18.0 Kcfs. However, this is likely due to low flows and project minimum powerhouse flows. Little Goose Dam met the Court's Order for spill this past week. Spill at Lower Monumental Dam has ranged from 11.7 Kcfs to 17 Kcfs over the past week, even though the Court's Order is for 17 Kcfs of spill. However, the days of lower spill were likely due to low flows and project minimum powerhouse flows. Spill at Ice Harbor Dam is not occurring as specified in the Court's Order, but this is also likely due to low flows and project minimum powerhouse flows.

Summer spill for fish passage was initiated on July 1 at the Lower Columbia River projects. Spill at McNary, John Day, The Dalles, and Bonneville dams was 50.7%, 29.9%, 39.6%, and 52.4% of average daily flow, respectively. McNary, John Day, and The Dalles dams met the Court's order most days last week. Spill at Bonneville Dam met the Court's order of 75 Kcfs for day time spill for all days this last week, while the Court's order of 120 Kcfs for evening spill was not always met. Total dissolved gas levels at Camas/Washougal have been below the waiver requirements since July 25.

Total dissolved gas levels have met the TDG waiver requirements over the past week. Only three sampled fish showed signs (Rank 1) of GBT, and that was at Rock Island Dam.

Smolt Monitoring: Subyearling Chinook salmon predominate in 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 almost all sites over the past week, while average indices increasing slightly at McNary Dam.

At Lower Granite Dam, subyearling Chinook indices averaged roughly 350 per day over the past week compared to 600 per day the previous week, while at Little Goose and Lower Monumental Dam the subyearling index averaged 300 and 100 (respectively) per day this week.

At Rock Island Dam indices for subyearlings averaged 200 per day this week compared to 250 per day last week. At McNary Dam, subyearling indices were up, averaging 19,000 this week compared to 16,000 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 5,000 per day this week compared to 13,000 per day last week. At Bonneville Dam subyearling indices also decreased with this week's average index at 4,300 per day, compared to 8,800 fish per day last week. Bonneville sampling has also been altered due to high temperatures. In fact, with the recent heat wave, temperatures exceeded 72 degrees F on July 26, 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 fall Chinook began on August 1st, so far daily counts have been 588 and 540 fish on August 1st and 2nd, respectively. The season total of summer Chinook at Bonneville Dam was 97,519 fish, about 123% and 159% of the respective 2005 and 10-year average counts. About 60,522 of the summer Chinook have passed McNary Dam (as of August 2nd) with the majority moving upstream into the Mid-Columbia River. Daily counts at Rock Island Dam ranged between 325 and 619 during the week.

At Bonneville Dam, steelhead counts averaged 2,236 per day between July 28th and August 2nd. Through August 2nd, the steelhead run at Bonneville Dam was 63,780, 60% and 59% of the respective 2005 and 10-year average counts. The daily counts at The Dalles Dam ranged between 283 and 639 for the week with the cumulative steelhead count through August 2nd at 19,984. About 31% of the steelhead counted at Bonneville Dam has passed The Dalles Dam. The majority of the 13,135 steelhead counted at McNary Dam have moved up into the Snake River with the cumulative count at Ice Harbor Dam now at 6,304 for the season. The cumulative count at Priest Rapids Dam is 1,226 for the season.

Adult sockeye salmon passage at Bonneville Dam averaged 24 fish per day through the week with the count at Bonneville through August 2nd at 36,974, about 51% and 62% of the respective 2005 and 10-year average counts. About 26,635 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, 45 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
07/21/06	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
07/28/06	126.5	0.0	137.8	0.0	140.6	12.4	141.4	10.1	142.0	25.3	150.4	20.7	137.5	22.6
07/29/06	97.7	0.2	99.1	0.0	102.6	8.0	98.2	10.5	100.7	24.6	119.9	1.6	127.9	21.0
07/30/06	72.5	0.2	66.6	0.0	67.8	5.9	74.5	8.1	75.9	20.2	102.7	1.3	99.6	21.0
07/31/06	123.5	0.2	121.8	0.0	123.8	8.6	118.5	10.7	116.2	26.7	88.6	1.5	81.6	21.0
08/01/06	97.7	0.2	103.7	0.0	110.0	7.8	112.7	8.7	115.7	25.1	120.9	1.8	113.4	23.6
08/02/06	121.2	0.2	119.1	0.0	117.5	9.4	112.6	9.0	114.8	23.1	110.5	2.0	103.3	22.4
08/03/06	101.8	0.1	107.8	0.0	117.3	9.7	117.0	10.0	115.3	23.2	119.6	3.4	115.9	24.6

Daily Average Spill 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
07/21/06	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	12.3	13.5	32.8	17.0	33.5	10.5	33.9	13.5	35.9	24.8
07/28/06	12.0	2.2	11.2	14.3	32.0	18.0	29.2	9.4	28.2	15.1	28.9	17.9
07/29/06	11.9	2.1	11.2	11.8	33.7	18.0	33.9	10.7	33.1	17.0	31.9	21.1
07/30/06	11.9	2.1	10.3	9.8	31.6	17.8	30.5	9.9	30.7	16.4	31.2	20.5
07/31/06	10.8	0.9	10.1	8.1	29.1	16.6	29.6	9.8	28.7	16.4	30.2	20.1
08/01/06	9.8	0.0	11.0	8.0	25.5	13.1	26.3	9.3	25.9	13.4	27.9	17.6
08/02/06	9.8	0.0	10.4	10.7	25.3	12.9	24.5	9.3	24.0	11.7	25.4	15.1
08/03/06	9.8	0.0	11.3	13.5	28.1	15.9	27.5	9.6	26.7	13.3	25.1	15.1

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		
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
07/28/06	172.6	104.0	143.1	43.0	144.6	57.7	153.2	87.8	0.0	53.9
07/29/06	189.0	112.9	165.5	49.7	152.8	60.7	167.4	87.8	0.0	68.1
07/30/06	159.1	73.3	153.2	46.5	149.5	60.0	154.8	87.9	0.0	55.4
07/31/06	130.0	52.0	128.9	38.2	129.1	51.6	150.0	88.0	0.0	50.5
08/01/06	150.3	84.8	135.0	40.3	130.3	51.8	138.8	86.0	1.7	39.6
08/02/06	148.8	88.7	136.1	41.2	133.2	53.7	142.5	84.8	1.4	44.7
08/03/06	146.1	65.5	147.0	43.9	147.3	58.3	---	---	10.7	48.4

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											
	08/01/06	Chinook + Steelhead	26	0	0	0.00%	0.00%	0	0	0	0
McNary Dam											
	07/27/06	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	07/31/06	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	08/03/06	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
Bonneville Dam											
	07/26/06	Chinook + Steelhead	85	0	0	0.00%	0.00%	0	0	0	0
	07/29/06	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	08/01/06	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
Rock Island Dam											
	07/27/06	Chinook + Steelhead	99	0	0	0.00%	0.00%	0	0	0	0
	07/31/06	Chinook + Steelhead	50	1	1	2.00%	0.00%	1	0	0	0
	08/03/06	Chinook + Steelhead	50	2	2	4.00%	0.00%	2	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>					
	24 h	12 h	High	#	24 h	12 h	High	#	24 h	12 h	High	#	24 h	12 h	High	#	24 h	12 h	High	#
	Avg	Avg		hr	Avg	Avg		hr	Avg	Avg		hr	Avg	Avg		hr	Avg	Avg		hr
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
7/28	107	108	108	24	116	116	117	14	113	113	114	24	112	113	117	14	113	114	114	24
7/29	107	108	108	24	116	117	117	24	112	113	113	24	112	114	118	24	113	113	114	24
7/30	108	108	108	24	116	116	116	24	112	112	113	24	111	112	117	24	112	112	112	24
7/31	107	107	107	11	116	117	117	24	111	112	112	24	111	112	115	24	111	111	112	24
8/1	---	---	---	0	116	116	116	24	111	111	112	24	110	111	111	24	111	111	112	24
8/2	100	100	100	1	114	115	115	24	111	111	111	24	110	111	115	24	111	112	112	24
8/3	---	---	---	0	114	115	116	24	111	111	112	24	110	111	115	24	111	111	112	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>					
	24 h	12 h	High	#	24 h	12 h	High	#	24 h	12 h	High	#	24 h	12 h	High	#	24 h	12 h	High	#
	Avg	Avg		hr	Avg	Avg		hr	Avg	Avg		hr	Avg	Avg		hr	Avg	Avg		hr
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
7/28	114	114	115	24	113	113	114	24	115	116	119	24	114	114	114	24	114	114	115	24
7/29	113	114	115	24	111	112	113	24	113	114	114	24	112	113	113	24	113	113	113	24
7/30	111	112	113	24	109	109	110	24	111	111	113	24	111	111	112	24	111	112	113	24
7/31	110	111	112	24	109	109	110	24	110	111	112	24	109	110	110	24	110	110	111	24
8/1	111	111	112	24	109	110	110	24	111	112	112	24	109	109	109	24	110	110	110	24
8/2	111	112	112	24	109	110	110	24	111	112	112	24	109	109	110	24	110	110	111	24
8/3	110	111	111	24	111	112	113	24	114	115	118	24	110	111	111	24	111	111	112	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>					
	24 h	12 h	High	#	24 h	12 h	High	#	24 h	12 h	High	#	24 h	12 h	High	#	24 h	12 h	High	#
	Avg	Avg		hr	Avg	Avg		hr	Avg	Avg		hr	Avg	Avg		hr	Avg	Avg		hr
7/21	115	116	116	24	119	120	122	24	114	116	118	23	115	115	116	23	113	114	116	23
7/22	115	116	116	24	118	119	119	24	114	116	116	23	116	116	117	23	---	---	---	0
7/23	115	116	117	24	118	119	119	24	115	116	118	23	116	117	117	23	115	115	117	11
7/24	115	116	117	24	119	119	120	24	114	115	115	23	115	115	116	23	113	113	114	23
7/25	---	---	---	0	---	---	---	0	112	113	113	23	113	114	119	23	112	112	113	17
7/26	114	115	115	24	118	119	120	24	111	113	114	20	112	113	115	23	111	112	113	23
7/27	114	115	116	24	118	119	120	24	112	113	114	23	112	113	113	23	111	112	113	23
7/28	114	114	115	24	118	119	119	24	111	112	112	23	112	112	113	23	110	110	111	23
7/29	112	113	113	24	117	118	119	24	110	111	112	23	110	111	112	23	110	110	112	23
7/30	111	111	112	24	117	117	119	24	108	109	109	23	108	108	109	23	107	108	108	23
7/31	111	111	112	24	116	117	118	24	110	111	113	23	108	109	110	23	107	108	108	23
8/1	110	110	111	24	115	116	118	24	---	---	---	0	---	---	---	0	---	---	---	0
8/2	110	110	111	24	115	115	116	24	---	---	---	0	---	---	---	0	---	---	---	0
8/3	110	112	113	24	116	117	118	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>Clrwr-Peck</u>			<u>Anatone</u>			#				
	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#					
	Avg	Avg		High	Avg		Avg	High		Avg	Avg		High	Avg			Avg	High		
7/21	115	115	116	23	110	111	112	24	108	109	109	24	108	110	111	24	102	103	104	24
7/22	116	116	117	23	112	112	113	24	108	109	109	24	109	110	111	24	102	103	104	24
7/23	116	117	117	23	112	113	113	24	108	108	109	24	109	110	111	24	101	102	103	24
7/24	115	115	115	23	112	113	113	24	108	109	109	24	109	110	111	24	101	102	103	24
7/25	114	114	114	23	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
7/26	112	113	114	23	110	110	111	24	104	104	104	24	105	107	108	24	100	101	102	24
7/27	113	114	114	23	109	110	110	24	104	104	104	24	106	107	108	24	101	103	106	24
7/28	112	112	113	23	109	109	109	24	104	104	105	24	106	107	108	24	102	103	105	24
7/29	112	113	113	23	107	107	108	24	104	104	104	24	105	106	107	24	102	103	104	24
7/30	110	111	111	23	105	106	107	24	103	104	104	24	105	106	107	24	101	102	104	24
7/31	110	110	111	23	106	107	108	24	102	103	103	24	104	105	106	24	100	102	103	24
8/1	---	---	---	0	106	107	107	24	100	100	101	24	102	104	105	24	100	101	103	24
8/2	---	---	---	0	106	107	108	24	100	100	100	24	102	103	105	24	100	101	103	24
8/3	---	---	---	0	107	108	108	24	100	100	101	24	102	104	105	24	100	101	102	24

Total Dissolved Gas Saturation Data at Snake River Sites

Date	<u>Clrwr-Lewiston</u>			<u>Lower Granite</u>			<u>L. Granite Tlwr</u>			<u>Little Goose</u>			<u>L. Goose Tlwr</u>			#				
	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#					
	Avg	Avg		High	Avg		Avg	High		Avg	Avg		High	Avg			Avg	High		
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
7/28	105	107	109	24	104	104	105	24	115	115	116	24	111	111	111	24	112	112	112	24
7/29	105	107	108	24	103	103	103	24	115	115	115	24	109	109	109	24	111	111	112	24
7/30	104	106	108	24	103	103	104	24	114	115	115	24	107	107	109	22	110	111	111	24
7/31	104	106	108	24	103	103	104	24	113	114	115	24	105	106	106	24	110	111	111	24
8/1	103	105	107	24	102	102	102	24	110	111	112	24	105	105	105	24	110	111	111	24
8/2	103	106	107	24	101	101	102	24	110	110	110	24	105	105	105	24	110	110	111	24
8/3	103	106	107	24	101	101	101	24	113	115	115	24	105	105	105	24	110	111	112	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>24 h</u>	<u>12 h</u>	#					
	Avg	Avg		High	Avg		Avg	High		Avg	Avg		High	Avg			Avg	High		
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
7/28	109	110	110	24	115	117	118	24	112	113	113	24	111	112	114	24	---	---	---	0
7/29	109	109	109	24	116	116	116	24	111	111	112	24	113	114	115	24	---	---	---	0
7/30	106	107	108	24	115	116	116	23	108	109	111	24	112	113	113	24	---	---	---	0
7/31	105	106	106	24	116	116	116	24	106	106	107	24	113	113	114	24	---	---	---	0
8/1	105	105	106	24	114	116	116	24	106	106	106	24	112	113	113	24	---	---	---	0
8/2	105	105	105	24	113	113	114	24	106	106	106	24	110	111	111	24	---	---	---	0
8/3	105	106	106	24	114	115	117	24	107	107	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	hr	Avg	Avg	hr	Avg	Avg	hr	Avg	Avg	hr	Avg	AVG	High		hr			
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
7/28	109	109	110	24	116	117	117	24	108	108	109	24	114	115	115	24	106	106	107	24
7/29	107	108	109	24	117	117	117	24	105	106	107	24	114	115	115	24	105	105	105	24
7/30	104	104	106	24	113	115	116	24	103	104	104	24	102	105	114	24	105	105	105	24
7/31	103	103	103	24	112	113	114	24	103	103	103	24	106	113	115	24	105	106	106	24
8/1	104	104	105	24	114	115	117	24	102	102	102	24	114	114	115	24	105	106	106	24
8/2	104	105	105	24	115	116	116	24	101	101	102	24	114	115	115	24	104	105	105	24
8/3	106	107	107	24	114	114	115	24	101	102	102	24	114	115	116	24	106	106	106	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	hr	Avg	Avg	hr	Avg	Avg	hr	Avg	Avg	hr	Avg	Avg	High		hr			
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
7/28	112	113	113	24	104	104	105	24	---	---	---	0	108	110	112	24	118	118	118	17
7/29	111	111	112	24	103	104	104	24	---	---	---	0	110	111	113	24	118	118	118	17
7/30	111	112	112	24	103	104	104	24	---	---	---	0	109	111	112	24	117	117	117	17
7/31	112	113	113	24	105	105	105	24	---	---	---	0	111	113	115	24	117	117	118	17
8/1	112	112	112	24	105	105	105	24	---	---	---	0	111	112	113	24	117	117	118	17
8/2	112	112	113	24	104	104	105	24	---	---	---	0	112	113	114	24	117	117	118	17
8/3	113	114	114	24	104	105	105	20	---	---	---	0	111	113	115	20	117	117	118	13

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)
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 *	---	---	---	---	0	1	0	0	52	0	0
07/29/2006 *	---	---	---	---	0	0	9	0	0	0	0
07/30/2006 *	---	---	---	---	0	0	0	1	0	0	0
07/31/2006	---	---	---	---	0	0	0	0	0	0	0
08/01/2006 *	---	---	---	---	0	0	5	0	0	0	0
08/02/2006	---	---	---	---	0	0	0	0	0	0	32
08/03/2006 *	---	---	---	---	0	0	4	0	0	0	0
08/04/2006	---	---	---	---	---	---	---	---	---	---	---
<hr/>											
Total:	0	0	0	0	4	20	54	3	172	0	32
# Days:	0	0	0	0	14	14	14	14	14	14	13
Average:	0	0	0	0	0	1	4	0	12	0	2
YTD	30,897	25,910	13,056	18,995	3,692,699	4,182,424	1,439,249	37,267	1,560,846	2,250,569	2,256,364

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)
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 *	---	---	---	---	631	499	162	170	24,619	0	6,528
07/29/2006 *	---	---	---	---	347	374	123	309	9,317	13,930	4,503
07/30/2006 *	---	---	---	---	281	168	60	249	18,367	0	3,944
07/31/2006	---	---	---	---	519	287	83	172	22,134	11,979	3,879
08/01/2006 *	---	---	---	---	288	173	71	320	28,723	0	2,675
08/02/2006	---	---	---	---	216	365	20	148	20,929	6,034	3,669
08/03/2006 *	---	---	---	---	133	138	32	146	8,336	0	5,060
08/04/2006	---	---	---	---	---	---	---	---	---	---	---
<hr/>											
Total:	0	0	0	0	6,393	6,298	2,947	3,205	246,055	119,558	82,996
# Days:	0	0	0	0	14	14	14	14	14	14	13
Average:	0	0	0	0	457	450	211	229	17,575	8,540	6,384
YTD	3	30	15	291	744,341	1,125,887	357,026	30,608	3,914,823	2,767,300	3,814,630

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)
07/21/2006	---	---	---	---	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 *	---	---	---	---	0	0	0	5	0	0	0
07/29/2006 *	---	---	---	---	0	1	0	1	0	144	0
07/30/2006 *	---	---	---	---	0	0	0	3	0	0	0
07/31/2006	---	---	---	---	0	0	0	0	0	0	0
08/01/2006 *	---	---	---	---	0	0	0	1	0	0	0
08/02/2006	---	---	---	---	0	0	0	1	0	0	0
08/03/2006 *	---	---	---	---	4	0	0	0	0	0	0
08/04/2006	---	---	---	---	---	---	---	---	---	---	---
<hr/>											
Total:	0	0	0	0	4	2	0	19	0	144	0
# Days:	0	0	0	0	14	14	14	14	14	14	13
Average:	0	0	0	0	0	0	0	1	0	10	0
YTD	0	0	0	49	86,146	133,013	33,976	61,263	102,165	316,789	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)
07/21/2006	---	---	---	---	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 *	---	---	---	---	4	0	0	0	0	0	0
07/29/2006 *	---	---	---	---	0	3	0	1	26	0	0
07/30/2006 *	---	---	---	---	0	1	0	0	0	0	0
07/31/2006	---	---	---	---	0	4	0	0	0	0	0
08/01/2006 *	---	---	---	---	0	0	0	0	0	0	0
08/02/2006	---	---	---	---	0	2	0	0	0	0	0
08/03/2006 *	---	---	---	---	0	0	0	1	0	0	0
08/04/2006	---	---	---	---	---	---	---	---	---	---	---
<hr/>											
Total:	0	0	0	0	8	55	20	6	111	0	0
# Days:	0	0	0	0	14	14	14	14	14	14	13
Average:	0	0	0	0	1	4	1	0	8	0	0
YTD	1,970	19,014	9,317	3,068	4,483,419	4,376,045	1,265,442	26,921	446,260	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)	
07/21/2006	---	---	---	---	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	*	---	---	---	0	0	0	9	79	0	0	
07/29/2006	*	---	---	---	0	0	0	10	26	144	0	
07/30/2006	*	---	---	---	0	0	0	4	123	0	47	
07/31/2006	---	---	---	---	0	0	0	1	0	0	27	
08/01/2006	*	---	---	---	0	2	0	6	35	0	56	
08/02/2006	---	---	---	---	0	0	0	3	52	0	0	
08/03/2006	*	---	---	---	0	0	0	6	103	0	0	
08/04/2006	---	---	---	---	---	---	---	---	---	---	---	
<hr/>												
Total:	0	0	0	0	7	12	0	79	759	526	154	
# Days:	0	0	0	0	14	14	14	14	14	14	13	
Average:	0	0	0	0	1	1	0	6	54	38	12	
YTD	13	0	0	679	51,861	92,635	40,235	34,537	496,614	529,160	407,753	

* 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:

8/4/06 9:16 AM

		07/21/06 TO 08/04/06					
		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	3,274	2	2	4	4	3,286
	Sum of NumberBarged	3,232	1	2	3	2	3,240
	Sum of NumberBypassed	0	0	0	0	0	0
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of SampleMorts	21	0	0	0	1	22
	Sum of FacilityMorts	21	1	0	1	1	24
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	42	1	0	1	2	46
LGS	Sum of NumberCollected	4,280	14	2	8	38	4,342
	Sum of NumberBarged	4,252	14	2	8	36	4,312
	Sum of NumberBypassed	4	0	0	0	0	4
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of SampleMorts	20	0	0	0	2	22
	Sum of FacilityMorts	4	0	0	0	0	4
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	24	0	0	0	2	26
LMN	Sum of NumberCollected	1,627	28			12	1,667
	Sum of NumberBarged	1,452	26			10	1,488
	Sum of NumberBypassed	82	2			0	84
	Sum of Numbertrucked	0	0			0	0
	Sum of SampleMorts	21	0			0	21
	Sum of FacilityMorts	72	0			2	74
	Sum of ResearchMorts	0	0			0	0
	Sum of TotalProjectMorts	93	0			2	95
MCN	Sum of NumberCollected	116,214	80		328	50	116,672
	Sum of NumberBarged	96,312	117		246	49	96,724
	Sum of NumberBypassed	24,373	0		40	0	24,413
	Sum of Numbertrucked	0	0		0	0	0
	Sum of SampleMorts	115	1		1	0	117
	Sum of FacilityMorts	1,233	2		1	1	1,237
	Sum of ResearchMorts	0	0		0	0	0
	Sum of TotalProjectMorts	1,348	3		2	1	1,354
Total Sum of NumberCollected		125,395	124	4	340	104	125,967
Total Sum of NumberBarged		105,248	158	4	257	97	105,764
Total Sum of NumberBypassed		24,459	2	0	40	0	24,501
Total Sum of Numbertrucked		0	0	0	0	0	0
Total Sum of SampleMorts		177	1	0	1	3	182
Total Sum of FacilityMorts		1,330	3	0	2	4	1,339
Total Sum of ResearchMorts		0	0	0	0	0	0
Total Sum of TotalProjectMorts		1,507	4	0	3	7	1,521

YTD Transportation Summary

Source: Fish Passage Center

Updated:

8/4/06 9:16 AM

TO: 08/04/06

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	477,421	2,407,709	51,162	32,615	2,820,593	5,789,500
	Sum of NumberBarged	458,455	1,964,112	46,804	25,789	2,467,171	4,962,331
	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	266	203	2	30	100	601
	Sum of FacilityMorts	1,273	6,010	140	558	1,220	9,201
	Sum of ResearchMorts	41	311	2	1	57	412
	Sum of TotalProjectMorts	1,580	6,524	144	589	1,377	10,214
LGS	Sum of NumberCollected	765,685	3,131,210	88,077	63,224	3,228,553	7,276,749
	Sum of NumberBarged	754,924	2,746,888	86,459	53,002	2,634,374	6,275,647
	Sum of NumberBypassed	4,265	376,348	1,524	8,895	591,417	982,449
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	166	136	0	23	21	346
	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	3,178	5,919	94	1,327	761	11,279
LMN	Sum of NumberCollected	248,852	1,096,139	23,183	27,781	935,548	2,331,503
	Sum of NumberBarged	241,998	1,060,701	23,024	27,011	883,883	2,236,617
	Sum of NumberBypassed	6,318	34,453	159	576	51,011	92,517
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	148	47	0	9	34	238
	Sum of FacilityMorts	387	938	0	185	620	2,130
	Sum of ResearchMorts	1	0	0	0	0	1
	Sum of TotalProjectMorts	536	985	0	194	654	2,369
MCN	Sum of NumberCollected	2,024,295	830,092	47,855	252,890	232,043	3,387,175
	Sum of NumberBarged	923,770	316	100	754	69	925,009
	Sum of NumberBypassed	1,089,978	828,856	47,736	251,700	231,814	2,450,084
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	365	117	1	29	13	525
	Sum of FacilityMorts	6,761	761	15	350	141	8,028
	Sum of ResearchMorts	196	42	3	17	6	264
	Sum of TotalProjectMorts	7,322	920	19	396	160	8,817
Total Sum of NumberCollected		3,516,253	7,465,150	210,277	376,510	7,216,737	18,784,927
Total Sum of NumberBarged		2,379,147	5,772,017	156,387	106,556	5,985,497	14,399,604
Total Sum of NumberBypassed		1,117,947	1,676,730	53,633	267,408	1,226,287	4,342,005
Total Sum of NumberTrucked		0	0	0	0	0	0
Total Sum of SampleMorts		945	503	3	91	168	1,710
Total Sum of FacilityMorts		11,410	13,470	249	2,397	2,720	30,246
Total Sum of ResearchMorts		261	375	5	18	64	723
Total Sum of TotalProjectMorts		12,616	14,348	257	2,506	2,952	32,679

Cumulative Adult Passage at Mainstem Dams Through: 08/03

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	08/02	96,456	2,908	74,038	4,288	151,682	8,418	97,519	4,355	79,208	4,495	61,165	7,724	1,128	123	515	41	743	138
TDA	08/02	61,827	2,176	60,964	3,210	104,618	6,110	80,845	3,581	69,434	3,457	52,768	5,597	0	0	0	0	0	0
JDA	08/02	50,313	2,093	56,027	2,715	87,807	4,857	72,679	3,979	63,336	5,268	48,884	5,449	0	0	0	0	0	0
MCN	08/02	45,355	2,475	51,855	3,201	80,814	5,125	60,522	3,185	62,362	2,947	47,658	5,020	0	0	0	0	0	0
IHR	08/02	25,465	843	28,039	1,267	54,334	3,256	8,492	543	8,720	970	10,940	1,879	0	0	0	0	0	0
LMN	08/02	23,596	551	25,933	1,002	51,936	3,032	9,704	483	8,193	768	10,392	1,523	0	0	0	0	0	0
LGS	08/02	20,839	745	23,995	923	49,856	3,088	8,010	571	6,849	948	9,022	1,796	0	0	0	0	0	0
LGR	08/02	22,963	984	26,028	1,258	49,902	3,362	7,883	675	6,628	1,049	9,106	1,963	0	0	0	0	0	0
PRD	08/02	8,535	81	14,148	515	16,757	523	53,750	375	58,368	1,845	40,865	1,696	0	0	0	0	0	0
RIS	08/02	9,245	473	11,908	504	13,259	737	54,724	1,568	49,820	2,219	36,146	3,753	0	0	0	0	0	0
RRH	08/02	5,376	274	4,568	417	4,860	283	35,869	1,281	37,258	1,893	25,575	2,325	0	0	0	0	0	0
WEL	07/31	4,043	214	4,897	99	3,488	193	18,306	762	23,156	435	16,390	702	0	0	0	0	0	0
WFA	07/29	34,545	165	35,390	1,179	3,480	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.	10-Yr			Wild 2006
	Adult	Jack	Adult	Jack	Adult	Jack				2006	2005	Avg.	
BON	5	2	0	0	5	0	36,974	72,868	60,055	63,780	106,383	107,408	25,296
TDA	1	0	1	0	0	0	29,934	65,199	50,229	19,984	41,059	47,188	8,779
JDA	1	-4	0	0	1	0	35,263	69,647	54,147	21,244	31,531	33,997	7,432
MCN	0	0	0	0	0	0	29,109	63,427	46,832	13,135	23,014	23,734	4,190
IHR	0	0	0	0	0	0	45	18	27	6,304	7,715	11,188	1,593
LMN	0	0	0	0	0	0	13	18	29	7,045	7,491	9,597	1,757
LGS	0	0	0	0	0	0	20	13	33	3,927	4,236	6,247	1,222
LGR	0	0	0	0	0	0	15	18	34	8,671	7,550	9,501	2,570
PRD	4	0	0	1	3	0	26,635	74,064	58,079	1,226	2,084	2,420	0
RIS	0	0	2	0	1	0	34,544	70,265	52,622	860	1,822	1,670	500
RRH	0	0	0	0	1	0	25,009	54,108	36,518	629	1,312	1,118	359
WEL	0	0	0	0	0	0	20,458	49,947	34,517	202	431	451	114
WFA	0	0	0	0	0	0	0	0	0	28,139	19,052	18,040	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: 08/04/06

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
1,031

