Fish Passage Center
Weekly Report #07 - 21

July 27, 2007

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Summary of Events:

Water Supply: Precipitation throughout the Columbia Basin has varied between 16% and 100% of average at individual sub-basins over July. Precipitation above The Dalles has been 48% of average over July. Over the entire water year, precipitation has varied between 73% and 109% of average at individual sub-basins.

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 2007 July 1-23		Water Year 2007 October 1, 2006 to July 23, 2007	
	Observed (inches)	% Average	Observed (inches)	% Average
Columbia Above Coulee	0.72	55	22.73	104
Snake River Above Ice Harbor	0.18	26	12.23	77
Columbia Above The Dalles	0.44	48	20.02	97
Kootenai	0.85	60	24.51	109
Clark Fork	0.19	22	14.91	99
Flathead	0.40	34	19.16	96
Pend Oreille/Spokane	0.33	33	25.46	90
Central Washington	0.12	45	7.53	91
Snake River Plain	0.18	40	7.28	73
Salmon/Boise/ Payette	0.13	23	14.17	78
Clearwater	0.17	16	25.81	93
SW Washington Cascades/Cowlitz	1.03	100	65.55	98
Willamette Valley	0.58	94	57.29	101

Table 2 displays the May Final and July Final runoff volume forecasts for multiple reservoirs. Water Supply Forecasts at Libby Dam have increased 8% between the May Final and July Final forecasts. Water Supply Forecasts at Lower Granite Dam and Brownlee Dam decreased by 7-9% between the May Final and July Final forecasts. The current forecast at The Dalles between January and July is 95500 Kaf (89% of average).

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

Location	May Final		July Final	
	% Average (1971-2000)	Probable Runoff Volume (Kaf)	% Average (1971-2000)	Probable Runoff Volume (Kaf)
The Dalles (Jan-July)	92	99100	89	95500
Grand Coulee (Jan-July)	104	65300	102	64000
Libby Res. Inflow, MT (Jan-July)	108	6790	116	7310
Hungry Horse Res. Inflow, MT (Jan-July)	92	2050	88	1950
Lower Granite Res. Inflow (Apr- July)	66	14200	59	12700
Brownlee Res. Inflow (Apr-July)	48	3040	39	2460
Dworshak Res. Inflow (Apr-July), RFC Forecast	78	2060	70	1850
Dworshak Res. Inflow (Apr-July), COE Forecast	70 (May Final)	1868 (May Final)		

Grand Coulee Reservoir is at 1286.4 feet (7-26-07) and drafted 0.8 feet last week. Outflows at Grand Coulee ranged between 99.2 and 148.9 Kcfs last week. The summer end of August draft limit at Grand Coulee is based on the July Final April-August runoff volume forecast at The Dalles. This year that forecast is less than 92 Maf (80.4 Maf), so the summer draft limit at Grand Coulee will be 1278 feet by the end of August.

Dworshak is currently at an elevation of 1573.3 feet (7-26-07) and drafted 6.5 feet last week. Outflows at Dworshak have been approximately 9.7 Kcfs.

The Libby Reservoir is currently at elevation 2453.5 feet (7-26-07) and drafted 0.7 feet last week. A regional Executive meeting was held on July 17, 2007, where it was decided to operate Libby Dam in accordance with SOR 2007-07. Outflows at Libby are currently at 17.3 Kcfs and will remain at this level through July and August.

Hungry Horse is currently at an elevation of 3553.9 feet (7-26-07) and drafted 1.6 feet last week. A regional Executive meeting was held on July 17, 2007, where it was decided to operate Hungry Horse Dam in accordance with SOR 2007-07. Outflows at Hungry Horse are currently at 4.4 Kcfs and will remain at this level through July and August.

The Brownlee Reservoir was at an elevation of 2060.0 feet on July 26th, 2007, drafting 0.8 feet last week. Outflows at Brownlee Dam have been 8.3 to 12.1 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 180.2 Kcfs over the summer season to date and 173.1 Kcfs last week.

The summer Biological Opinion flow at Lower Granite Dam is determined by the June Final Water Supply Forecast and is 50 Kcfs this year. Flows at Lower Granite Dam have averaged 33.1 Kcfs over the summer season to date and 28.0 Kcfs last week.

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

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

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 flows have resulted in hours where the specified spill targets at each project cannot be achieved.

At Ice Harbor Dam spill was provided to achieve study conditions until July 21, when it was determined that no more radio tagged fish were in the area. The project reverted to operating at 45 Kcfs during daylight hours and gas cap spill during nighttime hours.

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. Over the past week, the gas cap spill level was reduced to 150 Kcfs since TDG at the Camas/ Washougal monitor exceeded the 115% TDG on July 22nd.

With the exception of one day (7/22) at the Camas/Washougal station, total dissolved gas waivers were not exceeded at the federal hydro-projects throughout the past week. Gas bubble trauma (GBT) monitoring continued this week at Little Goose, Lower Monumental, McNary, Rock Island and Bonneville dams. At Little Goose Dam very late migrating steelhead juveniles continue to show up with minor signs of GBT fish, in spite of TDG measurements in the forebay that are less than the water quality standard. One subyearling Chinook at Rock Island (7/23) was observed with minor signs of GBT, while no subyearling Chinook in the Snake River showed signs of GBT.

Smolt Monitoring: Subyearling Chinook continue to predominate at the Snake River SMP sites as well as at the Columbia River sites. Subyearling indices decreased this past week at Snake River and Columbia River SMP sites.

At Lower Granite Dam, there was a decrease in the average subyearling passage index, with the average this week at approximately 600 per day compared to 1,100 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 averaging 420 per day this week, which is an increase from that seen last week.

In the Lower Columbia, at McNary Dam, numbers of subyearling Chinook decreased this week. Numbers of subyearlings at John Day and Bonneville dams also decreased this week. At John Day Dam the project went to bypass beginning on July 17th due to high temperatures. At Bonneville Dam sampling occurred on an every other day basis, also due to high temperatures. The subyearling index averaged approximately 20,000 this week compared to 55,000 per day last week.

Hatchery Release:

Snake River Zone: The Snake River Zone encompasses the Snake River and its tributaries from its confluence with the Columbia River to Hells Canyon Dam. There were no releases scheduled for the Snake River Zone this week 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 Report : Daily passage numbers at Bonneville Dam have ranged between 290 and 455 adult summer Chinook in the last week. The 2007 summer Chinook count of 46,058 is about 68.9 percent of the 10-year average count and 48.3 percent of the 2006 count. The summer Chinook jack count of 13,157 at Bonneville Dam is presently 3.23 times greater than observed in 2006, and 1.75 times greater than the 10-year average count to date. The adult summer Chinook count total at The Dalles Dam was 38,273 through July 25th, about 83.0 percent of the Bonneville passage total to date. A total of 29,628 summer Chinook have passed McNary Dam. The adult summer Chinook count total at Lower Granite Dam in the Snake River, was 6,939 through July 25th. The 2007 adult summer Chinook count at Rock Island Dam in the upper Columbia River was 22,247 with daily totals ranging from 67 to 154.

As of July 25th, 51,738 steelhead had passed Bonneville Dam which was 1.12 times greater than the 2006 count. The 2007 Bonneville steelhead count was about 70.1 percent of the 10-

year average. The daily steelhead counts at The Dalles Dam ranged between 764 and 1,280 for the week with the cumulative count of 21,294. About 41.1 percent of the steelhead counted at Bonneville have passed The Dalles Dam. The majority of the 12,491 steelhead counted at McNary Dam have moved up into the Snake River with the cumulative count at Ice Harbor now at 6,856 for the season. The cumulative count at Priest Rapids was at 679 for the season.

As of July 25th, 2,569,665 adult Shad were counted at Bonneville Dam this season with daily counts ranging from 491 to 1,442. Adult sockeye counts increased at Bonneville with the count through July 25th at 24,171. This year's sockeye count is about 65.7 percent of the 2006 count and 39.9 percent of the 10-year average count. About 23,352 of the adult sockeye have been counted at Priest Rapids Dam. This year's count is about 89.2 percent of the 2006 adult sockeye count at Priest Rapids Dam and 41.7 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.

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

	Grand Coulee		Chief Joseph		Wells		Rocky Reach		Rock Island		Wanapum		Priest Rapids	
Date	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill
07/13/07	152.1	0.1	151.8	0.0	160.6	10.0	158.8	12.4	161.6	28.3	165.8	23.0	162.4	23.2
07/14/07	141.4	0.2	138.7	0.0	153.5	10.0	157.5	12.3	163.5	28.1	176.5	33.8	174.3	22.1
07/15/07	133.7	0.1	133.4	0.0	146.4	8.9	144.0	8.3	145.8	20.5	151.5	9.7	150.6	21.0
07/16/07	130.2	0.2	134.2	0.0	143.4	10.0	143.7	12.6	148.2	29.1	156.4	14.1	155.2	20.2
07/17/07	134.7	0.1	133.2	0.0	132.5	10.0	123.8	12.5	126.4	30.0	144.9	8.6	142.1	21.9
07/18/07	128.2	0.1	131.0	0.0	133.5	11.7	128.9	13.1	132.3	29.1	139.5	8.8	142.4	20.8
07/19/07	134.9	0.2	122.0	0.0	130.0	7.8	131.1	13.2	135.3	27.8	126.6	9.5	119.7	23.4
07/20/07	124.0	0.2	134.5	0.0	139.9	10.8	139.7	10.0	141.2	23.9	137.6	10.0	134.2	23.5
07/21/07	116.1	0.1	120.5	0.0	127.2	8.3	127.8	9.1	132.1	21.9	135.7	10.0	132.1	24.5
07/22/07	99.2	0.1	97.0	0.0	110.2	7.9	112.1	8.9	116.6	21.2	141.5	9.3	143.1	22.2
07/23/07	133.1	0.1	134.1	0.0	135.1	9.5	127.7	11.5	127.9	26.3	133.0	8.5	132.1	20.5
07/24/07	135.4	0.1	131.0	0.0	135.4	8.5	136.0	12.2	138.5	29.1	127.6	9.3	124.2	23.4
07/25/07	148.9	0.2	147.4	0.0	148.5	12.8	143.4	12.4	144.2	28.6	143.5	16.3	135.1	24.3
07/26/07	148.1	0.1	148.9	0.0	152.8	10.0	151.4	12.7	153.3	29.4	157.0	15.4	161.7	22.2

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

	Dworshak		Brownlee	Hells Canyon	Lower Granite		Little Goose		Lower Monumental		Ice Harbor	
Date	Flow	Spill	Inflow	Outflow	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill
07/13/07	11.7	2.2	9.5	13.2	33.1	17.8	34.2	10.2	32.8	16.5	32.6	21.0
07/14/07	11.8	2.1	9.4	16.7	33.6	17.8	32.6	9.9	32.4	17.1	31.7	21.2
07/15/07	10.7	1.2	9.1	13.5	36.0	17.8	34.7	10.5	34.4	16.5	34.2	16.2
07/16/07	9.2	0.0	10.4	13.1	32.2	17.8	34.5	10.4	33.2	17.1	31.8	17.0
07/17/07	10.0	0.3	9.1	11.8	31.1	17.7	28.4	8.5	29.1	16.8	29.8	19.9
07/18/07	9.6	0.0	9.6	11.5	30.2	17.2	29.8	8.8	29.8	17.1	29.6	19.4
07/19/07	9.7	0.0	9.1	14.1	28.9	16.5	28.6	8.6	27.4	15.1	28.5	18.3
07/20/07	9.7	0.0	9.4	9.2	30.5	17.8	29.9	8.9	29.8	16.1	29.0	19.1
07/21/07	9.7	0.0	9.3	9.0	29.5	16.8	31.5	9.5	30.3	14.9	29.3	19.1
07/22/07	9.7	0.0	9.5	10.7	26.9	14.4	26.3	7.9	25.2	12.9	26.6	16.4
07/23/07	9.7	0.0	9.4	10.5	28.0	15.5	25.0	7.4	25.1	12.8	25.2	15.2
07/24/07	9.7	0.0	9.4	9.7	27.3	14.7	28.5	8.6	27.7	15.5	25.6	15.5
07/25/07	9.8	0.0	9.6	10.8	27.0	14.4	24.6	7.4	25.3	13.2	27.9	17.5
07/26/07	9.8	0.0	---	---	26.8	14.5	26.2	8.0	24.4	11.8	25.4	15.2

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

	McNary		John Day		The Dalles		Bonneville			
Date	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	PH1	PH2
07/13/07	215.2	127.9	203.3	61.0	199.7	80.2	203.5	94.2	9.6	88.2
07/14/07	214.4	95.0	204.3	61.4	201.1	80.9	208.8	95.2	18.2	83.8
07/15/07	206.7	82.6	189.8	57.1	183.9	73.8	190.5	97.9	3.8	77.3
07/16/07	203.5	110.5	206.1	61.8	200.3	80.2	210.3	91.1	13.2	94.4
07/17/07	182.0	109.1	160.5	48.4	158.5	63.1	199.6	90.1	10.2	86.9
07/18/07	188.6	113.3	169.2	50.1	158.4	62.8	166.9	93.1	0.1	62.3
07/19/07	169.6	101.9	164.7	49.4	162.7	64.8	166.0	96.4	0.0	58.0
07/20/07	161.3	73.2	153.6	46.2	152.7	61.0	165.8	98.8	0.0	55.5
07/21/07	180.0	72.1	166.3	49.9	154.8	62.2	159.8	98.8	0.0	49.5
07/22/07	174.7	97.4	173.8	51.8	166.4	66.7	171.2	98.2	0.0	61.5
07/23/07	182.3	109.4	160.3	48.1	154.9	62.1	183.6	96.6	2.0	73.5
07/24/07	175.7	77.6	163.8	49.2	157.3	62.5	163.7	93.6	0.0	58.6
07/25/07	160.2	64.2	151.1	45.3	151.5	60.0	160.0	95.0	0.0	53.4
07/26/07	177.6	100.5	168.2	50.9	161.1	64.6	165.2	95.1	0.0	58.6

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

Site	Date	Species	Number of Fish	Number w GBT signs	Number w Fin Signs	% Fin GBT	% Severe Fin GBT	Number of Fish with Fin GBT Listed by Highest Rank: Rank 1	Rank 2	Rank 3	Rank 4
Lower Granite Dam											
Little Goose Dam											
	07/17/07	Chinook + Steelhead	73	10	10	13.69%	0.00%	9	1	0	0
	07/24/07	Chinook + Steelhead	97	23	23	23.71%	0.00%	17	6	0	0
Lower Monumental Dam											
	07/22/07	Chinook + Steelhead	6	0	0	0.00%	0.00%	0	0	0	0
McNary Dam											
	07/19/07	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	07/23/07	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
Bonneville Dam											
	07/17/07	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	07/21/07	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	07/23/07	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	07/25/07	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
Rock Island Dam											
	07/19/07	Chinook + Steelhead	100	1	1	1.00%	0.00%	1	0	0	0
	07/23/07	Chinook + Steelhead	100	1	1	1.00%	0.00%	1	0	0	0
	07/26/07	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0

Total Dissolved Gas Saturation (%) - Average of 12 Highest Hours, 24 h Average and 24 h High

Total Dissolved Gas Saturation Data at Upper Columbia River Sites

	Hungry H. Dnst				Boundary				Grand Coulee				Grand C. Tlwr				Chief Joseph			
	24 h Avg	12 h Avg	High	# hr	24 h Avg	12 h Avg	High	# hr	24 h Avg	12 h Avg	High	# hr	24 h Avg	12 h Avg	High	# hr	24 h Avg	12 h Avg	High	# hr
7/13	107	108	108	24	112	113	114	24	113	113	113	24	110	111	111	24	110	111	111	24
7/14	108	108	108	24	112	113	114	24	113	113	114	24	109	110	111	24	110	111	111	24
7/15	108	108	108	24	112	113	114	24	114	114	114	24	110	111	112	24	111	111	111	24
7/16	108	108	108	24	112	112	113	24	114	114	114	24	110	111	112	24	110	111	111	24
7/17	108	108	109	24	112	112	113	24	114	114	115	24	111	111	112	24	111	111	111	24
7/18	108	108	108	24	112	113	113	24	114	114	115	24	110	111	113	24	110	111	111	24
7/19	108	108	108	24	111	112	112	24	114	114	114	24	110	111	112	24	110	110	110	24
7/20	108	108	109	24	111	112	112	24	114	114	114	24	110	111	112	24	110	110	110	24
7/21	108	108	108	24	111	112	112	24	113	114	114	24	110	110	111	24	109	110	110	24
7/22	107	108	108	24	111	112	113	24	113	113	113	24	109	110	111	24	109	109	110	24
7/23	108	109	109	24	111	111	112	24	113	113	113	24	110	111	111	24	109	110	111	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	108	108	108	24	110	111	111	24	113	113	113	24	109	110	111	24	110	110	110	24
7/26	108	108	109	24	110	110	111	24	113	113	113	24	109	110	110	24	110	110	111	24

Total Dissolved Gas Saturation Data at Mid Columbia River Sites

	Chief J. Dnst				Wells				Wells Dwnstrm				Rocky Reach				Rocky R. Tlwr			
Date	24 h Avg	12 h Avg	High	# hr	24 h Avg	12 h Avg	High	# hr	24 h Avg	12 h Avg	High	# hr	24 h Avg	12 h Avg	High	# hr	24 h Avg	12 h Avg	High	# hr
7/13	110	111	112	24	110	111	111	24	112	113	113	24	112	112	112	24	112	113	113	24
7/14	110	110	111	24	111	111	111	24	112	113	113	24	111	112	112	24	112	112	113	24
7/15	110	110	111	24	110	111	111	24	112	113	113	24	111	111	112	24	111	112	112	24
7/16	111	111	112	24	110	111	111	24	112	112	113	24	110	111	111	24	111	112	112	24
7/17	111	111	111	24	111	111	112	24	112	113	114	24	111	111	111	24	111	112	112	24
7/18	110	110	111	24	110	110	110	24	112	113	116	24	110	111	111	24	111	112	112	24
7/19	110	110	112	24	109	110	110	24	111	112	112	24	110	110	111	24	111	111	115	24
7/20	109	110	110	24	109	110	110	24	111	112	114	24	110	110	111	24	111	111	112	24
7/21	109	110	111	24	108	109	109	24	111	111	112	24	109	110	110	24	110	110	111	24
7/22	109	110	111	24	109	109	110	24	110	111	112	24	110	110	110	24	110	111	111	24
7/23	109	110	110	24	109	110	110	24	111	112	113	24	110	110	110	24	110	111	111	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	109	110	110	24	110	110	111	24	113	114	115	24	109	110	110	24	110	111	111	24
7/26	110	110	111	24	110	110	111	24	112	113	114	24	111	112	113	24	112	113	113	24

Total Dissolved Gas Saturation at Mid Columbia River Sites

	Rock Island				Rock I. Tlwr				Wanapum				Wanapum Tlwr				Priest Rapids			
Date	24 h Avg	12 h Avg	High	# hr	24 h Avg	12 h Avg	High	# hr	24 h Avg	12 h Avg	High	# hr	24 h Avg	12 h Avg	High	# hr	24 h Avg	12 h Avg	High	# hr
7/13	112	112	112	24	117	118	118	24	111	111	113	24	115	116	118	24	115	116	117	24
7/14	111	112	113	24	116	117	118	24	110	111	113	24	116	118	119	24	114	115	118	24
7/15	111	111	112	24	115	116	117	24	109	111	112	24	114	116	117	24	113	114	115	24
7/16	110	111	111	24	116	116	117	24	109	110	112	24	114	116	117	24	113	114	117	24
7/17	110	111	111	24	116	116	117	24	108	110	113	24	114	115	117	24	113	114	117	24
7/18	110	110	110	24	115	115	116	24	109	109	110	24	113	114	116	24	112	113	115	24
7/19	110	111	112	24	116	116	117	24	108	109	110	24	113	115	117	24	111	112	113	24
7/20	110	111	111	24	115	116	116	24	109	110	111	24	113	115	118	24	112	113	116	24
7/21	109	110	111	24	115	116	118	24	108	110	110	24	113	115	117	24	112	114	115	24
7/22	109	110	111	24	115	116	118	24	107	110	111	24	113	114	117	24	112	114	116	24
7/23	110	110	111	24	116	116	118	24	108	110	114	24	114	115	116	24	113	114	117	24
7/24	115	116	117	24	119	119	120	24	108	110	111	24	112	114	117	24	112	113	115	24
7/25	109	110	110	24	116	116	117	24	109	111	113	24	113	115	117	24	112	114	116	24
7/26	111	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

	Priest R. Dnst				Pasco				Dworshak				Clrwtr-Peck				Anatone			
	24 h	12 h		#	24 h	12 h		#	24 h	12 h		#	24 h	12 h		#	24 h	12 h		#
Date	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr
7/13	116	117	118	24	111	111	112	24	104	104	105	24	---	---	---	0	102	103	105	24
7/14	116	117	118	24	111	112	113	24	103	104	104	24	---	---	---	0	102	103	104	24
7/15	115	116	116	24	111	112	113	24	101	102	103	24	103	105	105	24	102	103	104	24
7/16	115	116	116	24	111	112	113	24	99	100	102	24	103	104	105	24	102	103	105	24
7/17	115	115	116	24	111	111	111	24	100	100	101	24	103	104	105	24	102	102	103	24
7/18	114	115	115	24	110	110	111	24	100	100	101	24	103	104	105	24	102	103	104	24
7/19	114	115	115	24	109	110	110	24	99	100	100	24	102	104	104	24	101	103	104	24
7/20	114	115	116	24	109	109	110	24	100	100	101	24	102	104	105	24	102	103	105	24
7/21	114	115	116	24	109	110	110	24	99	99	100	24	102	103	104	24	102	103	105	24
7/22	114	116	116	24	110	111	112	24	99	99	100	24	109	110	111	24	102	103	104	24
7/23	114	115	116	24	111	112	113	24	99	99	100	24	102	104	105	24	102	103	105	24
7/24	114	114	115	24	112	113	113	24	108	109	109	24	109	110	111	24	101	102	103	24
7/25	114	115	116	24	110	111	112	24	99	100	100	24	102	104	105	24	102	103	105	24
7/26	---	---	---	0	110	111	112	24	99	100	100	24	102	104	105	24	102	103	105	24

Total Dissolved Gas Saturation Data at Snake River Sites

	Clrwtr-Lewiston				Lower Granite				L. Granite Tlwr				Little Goose				L. Goose Tlwr			
	24 h	12 h		#	24 h	12 h		#	24 h	12 h		#	24 h	12 h		#	24 h	12 h		#
Date	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr
7/13	105	107	109	24	103	103	104	24	112	112	113	24	109	110	110	24	108	108	109	24
7/14	105	108	109	24	103	103	104	24	112	112	113	24	110	110	111	24	108	109	109	24
7/15	104	106	108	24	103	104	104	24	112	112	113	24	110	110	110	24	108	109	109	24
7/16	105	107	109	24	103	103	104	24	112	112	113	24	110	110	110	24	108	109	109	24
7/17	103	105	106	24	103	103	103	24	112	112	113	24	109	109	110	24	108	108	109	24
7/18	104	107	108	24	103	103	103	24	112	112	112	24	109	110	110	24	108	108	109	24
7/19	104	106	108	24	102	102	102	24	112	112	112	24	108	109	109	24	108	108	108	24
7/20	104	106	108	24	102	102	103	24	112	113	113	24	109	109	110	24	108	108	109	24
7/21	104	106	108	24	101	102	102	24	112	112	112	24	108	108	109	24	108	108	109	24
7/22	104	107	108	24	101	101	101	24	111	111	112	24	108	108	108	24	107	108	108	24
7/23	104	107	108	24	101	101	101	24	111	111	112	24	107	108	108	24	107	108	108	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	104	106	108	24	100	101	101	24	111	112	112	24	108	108	109	24	108	108	109	24
7/26	104	106	108	24	101	101	102	24	111	112	112	24	107	108	108	24	108	108	109	24

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

	Lower Mon.				L. Mon. Tlwr				Ice Harbor				Ice Harbor Tlwr				McNary-Oregon			
	24 h	12 h		#	24 h	12 h		#	24 h	12 h		#	24 h	12 h		#	24 h	12 h		#
Date	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr
7/13	107	108	108	24	113	114	114	24	111	111	112	24	112	114	114	24	---	---	---	0
7/14	107	108	108	24	114	114	115	24	111	112	112	24	113	114	114	24	---	---	---	0
7/15	107	107	108	24	113	114	114	24	111	112	112	24	112	113	114	24	---	---	---	0
7/16	107	107	108	24	114	114	115	24	111	111	112	24	111	112	113	24	---	---	---	0
7/17	107	108	108	24	114	114	115	24	111	112	112	24	112	113	113	24	---	---	---	0
7/18	107	107	107	24	114	114	114	24	111	111	111	24	112	113	114	24	---	---	---	0
7/19	106	106	107	24	113	114	114	24	110	110	111	24	112	113	114	24	---	---	---	0
7/20	106	107	107	24	114	115	115	24	110	110	111	24	112	113	114	24	---	---	---	0
7/21	105	106	106	24	113	114	114	24	109	109	110	24	112	114	115	24	---	---	---	0
7/22	105	105	105	24	112	113	113	24	108	109	109	24	111	112	113	24	---	---	---	0
7/23	105	106	106	24	112	113	113	24	108	109	109	24	111	111	112	24	---	---	---	0
7/24	111	112	112	24	117	118	119	24	115	115	116	24	114	115	116	24	---	---	---	0
7/25	106	106	106	24	113	114	115	24	110	110	110	24	111	112	112	24	---	---	---	0
7/26	106	106	107	24	113	114	115	24	111	111	111	24	111	111	112	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

	McNary-Wash				McNary Tlwr				John Day				John Day Tlwr				The Dalles			
	24 h	12 h		#	24 h	12 h		#	24h	12h		#	24h	12h		#	24h	12h		#
Date	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	AVG	High	hr
7/13	111	111	112	24	116	117	117	24	109	109	109	24	117	119	119	24	107	108	108	24
7/14	110	111	111	24	115	115	117	24	109	109	110	24	117	119	120	24	107	108	108	24
7/15	110	110	110	24	116	117	119	24	108	109	109	24	116	117	118	24	108	108	109	24
7/16	110	111	111	24	115	116	117	24	108	108	108	24	117	118	119	24	108	108	109	24
7/17	111	111	111	24	115	116	117	24	107	107	108	24	115	117	118	24	107	108	109	24
7/18	110	110	111	24	115	116	117	24	106	106	107	24	115	116	118	24	106	106	107	24
7/19	109	109	109	24	114	114	115	24	106	106	106	24	115	116	118	24	106	107	107	24
7/20	108	109	109	24	117	119	119	24	105	105	106	24	115	115	116	24	107	107	108	24
7/21	107	107	108	24	118	119	119	24	104	104	105	24	115	115	115	24	107	107	107	24
7/22	108	108	109	24	116	117	118	24	104	105	105	24	115	117	119	24	107	107	108	24
7/23	109	109	110	24	115	116	117	24	105	105	105	24	115	116	119	24	107	107	107	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	110	110	111	24	116	118	119	24	105	106	106	24	115	116	117	24	106	106	107	24
7/26	110	111	112	24	116	117	118	24	106	106	106	24	116	117	119	24	107	107	108	24

Total Dissolved Gas Saturation Data at Lower Columbia River Sites

	The Dalles Dnst				Bonneville				Warrendale				Camas\Washougal				Cascade Island			
	24 h	12 h		#	24 h	12 h		#	24h	12h		#	24h	12h		#	24h	12h		#
Date	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr
7/13	113	114	115	24	107	107	108	24	---	---	---	0	111	112	114	24	116	116	118	24
7/14	114	115	116	24	108	108	108	24	---	---	---	0	111	112	114	24	116	117	120	24
7/15	114	114	114	24	108	108	108	24	---	---	---	0	111	113	115	24	116	117	120	24
7/16	114	115	116	24	108	108	108	24	---	---	---	0	111	112	114	24	116	117	120	24
7/17	114	114	114	24	108	108	108	24	---	---	---	0	110	112	114	24	116	117	120	24
7/18	113	113	113	24	107	107	107	24	---	---	---	0	110	112	114	24	116	118	121	24
7/19	113	113	113	24	107	107	108	24	---	---	---	0	112	115	117	24	116	118	121	24
7/20	113	114	114	24	107	108	108	24	---	---	---	0	113	115	116	24	116	118	121	24
7/21	113	113	114	24	108	108	108	24	---	---	---	0	112	114	116	24	116	117	121	24
7/22	114	114	115	24	108	109	109	24	---	---	---	0	114	116	119	21	116	118	121	24
7/23	113	114	114	24	109	109	109	24	---	---	---	0	113	115	117	21	116	117	121	24
7/24	114	114	114	24	111	111	112	24	---	---	---	0	115	116	118	24	118	118	118	24
7/25	113	113	114	24	106	106	107	24	---	---	---	0	112	115	118	24	116	117	120	24
7/26	113	114	114	24	106	106	106	24	---	---	---	0	111	113	115	24	116	117	120	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/currentsmpsubmitdata.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)
07/13/2007	*	---	---	---	---	0	0	0	6	---	204	0
07/14/2007		---	---	---	---	0	6	13	0	0	0	0
07/15/2007		---	---	---	---	0	6	0	0	0	0	84
07/16/2007		---	---	---	---	0	9	4	0	0	0	0
07/17/2007	*	---	---	---	---	5	20	0	6	---	0	0
07/18/2007	*	---	---	---	---	0	0	0	2	0	0	235
07/19/2007	*	---	---	---	---	0	0	0	0	---	0	---
07/20/2007		---	---	---	---	0	0	0	0	0	0	0
07/21/2007	*	---	---	---	---	2	0	0	0	---	0	---
07/22/2007	*	---	---	---	---	0	0	0	0	0	0	0
07/23/2007	*	---	---	---	---	0	0	0	0	---	0	---
07/24/2007		---	---	---	---	0	0	0	0	0	0	0
07/25/2007	*	---	---	---	---	0	0	0	1	---	0	---
07/26/2007	*	---	---	---	---	0	0	0	0	0	0	0
07/27/2007		---	---	---	---	---	---	---	---	---	---	---
Total:		**0**	**0**	**0**	**0**	**7**	**41**	**17**	**15**	**0**	**204**	**319**
# Days:		**0**	**0**	**0**	**0**	**14**	**14**	**14**	**14**	**8**	**14**	**10**
Average:		**0**	**0**	**0**	**0**	**1**	**3**	**1**	**1**	**0**	**15**	**32**
YTD		**43,491**	**86,948**	**15,108**	**6,553**	**2,247,460**	**655,128**	**355,453**	**23,761**	**2,224,840**	**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)
07/13/2007	*	---	---	---	---	1,755	3,612	912	212	---	121,503	59,677
07/14/2007		---	---	---	---	1,494	1,128	703	204	229,747	165,620	42,873
07/15/2007		---	---	---	---	942	914	546	232	0	163,787	54,307
07/16/2007		---	---	---	---	769	668	415	203	94,528	128,261	38,058
07/17/2007	*	---	---	---	---	1,039	516	312	272	---	95,588	82,922
07/18/2007	*	---	---	---	---	738	487	267	266	64,199	0	54,586
07/19/2007	*	---	---	---	---	804	548	196	183	---	0	---
07/20/2007		---	---	---	---	766	505	115	390	36,673	30,142	38,947
07/21/2007	*	---	---	---	---	837	598	181	394	---	0	---
07/22/2007	*	---	---	---	---	590	1,034	168	604	48,831	0	14,259
07/23/2007	*	---	---	---	---	606	485	138	301	---	0	---
07/24/2007		---	---	---	---	509	317	37	352	55,049	23,381	15,466
07/25/2007	*	---	---	---	---	424	631	61	335	---	0	---
07/26/2007	*	---	---	---	---	389	525	32	550	96,092	0	10,989
07/27/2007		---	---	---	---	---	---	---	---	---	---	---
Total:		**0**	**0**	**0**	**0**	**11,662**	**11,968**	**4,083**	**4,498**	**625,119**	**728,282**	**412,084**
# Days:		**0**	**0**	**0**	**0**	**14**	**14**	**14**	**14**	**8**	**14**	**10**
Average:		**0**	**0**	**0**	**0**	**833**	**855**	**292**	**321**	**78,140**	**52,020**	**41,208**
YTD		**0**	**82**	**90**	**255**	**321,146**	**429,833**	**77,411**	**11,903**	**4,258,578**	**2,826,760**	**3,935,846**

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)
07/13/2007	*	---	---	---	---	0	9	4	3	---	204	0
07/14/2007		---	---	---	---	0	40	17	4	0	205	0
07/15/2007		---	---	---	---	0	46	4	1	0	0	0
07/16/2007		---	---	---	---	0	12	11	3	0	205	0
07/17/2007	*	---	---	---	---	5	54	0	3	---	0	0
07/18/2007	*	---	---	---	---	0	50	5	5	0	0	0
07/19/2007	*	---	---	---	---	0	17	0	0	---	0	---
07/20/2007		---	---	---	---	0	36	9	6	0	0	0
07/21/2007	*	---	---	---	---	0	40	0	6	---	0	---
07/22/2007	*	---	---	---	---	2	99	0	6	0	0	0
07/23/2007	*	---	---	---	---	2	53	8	1	---	0	---
07/24/2007		---	---	---	---	0	17	0	3	0	0	0
07/25/2007	*	---	---	---	---	0	29	5	1	---	0	---
07/26/2007	*	---	---	---	---	0	25	0	3	86	0	0
07/27/2007		---	---	---	---	---	---	---	---	---	---	---
Total:		**0**	**0**	**0**	**0**	**9**	**527**	**63**	**45**	**86**	**614**	**0**
# Days:		**0**	**0**	**0**	**0**	**14**	**14**	**14**	**14**	**8**	**14**	**10**
Average:		**0**	**0**	**0**	**0**	**1**	**38**	**5**	**3**	**11**	**44**	**0**
YTD		**0**	**0**	**0**	**57**	**50,693**	**55,688**	**18,012**	**64,413**	**99,127**	**347,366**	**628,424**

				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)
07/13/2007	*	---	---	---	---	8	2,423	165	0	---	204	229
07/14/2007		---	---	---	---	27	637	170	0	0	0	0
07/15/2007		---	---	---	---	8	466	55	1	0	0	183
07/16/2007		---	---	---	---	8	446	54	0	86	0	0
07/17/2007	*	---	---	---	---	14	458	84	0	---	724	0
07/18/2007	*	---	---	---	---	5	1,092	78	0	0	0	470
07/19/2007	*	---	---	---	---	9	827	54	0	---	0	---
07/20/2007		---	---	---	---	7	298	18	0	0	144	0
07/21/2007	*	---	---	---	---	0	374	8	3	---	0	---
07/22/2007	*	---	---	---	---	2	1,381	21	1	138	0	0
07/23/2007	*	---	---	---	---	0	1,426	35	0	---	0	---
07/24/2007		---	---	---	---	0	897	18	2	0	0	0
07/25/2007	*	---	---	---	---	0	965	19	0	---	0	---
07/26/2007	*	---	---	---	---	2	480	28	2	43	0	0
07/27/2007		---	---	---	---	---	---	---	---	---	---	---
Total:		**0**	**0**	**0**	**0**	**90**	**12,170**	**807**	**9**	**267**	**1,072**	**882**
# Days:		**0**	**0**	**0**	**0**	**14**	**14**	**14**	**14**	**8**	**14**	**10**
Average:		**0**	**0**	**0**	**0**	**6**	**869**	**58**	**1**	**33**	**77**	**88**
YTD		**3,734**	**45,908**	**1,940**	**7,792**	**1,859,241**	**1,862,748**	**740,267**	**18,535**	**376,417**	**960,412**	**267,109**

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)
07/13/2007	*	---	---	---	---	0	0	0	0	---	0	0
07/14/2007		---	---	---	---	0	0	0	0	0	205	0
07/15/2007		---	---	---	---	0	0	0	0	0	0	49
07/16/2007		---	---	---	---	0	6	0	0	0	0	227
07/17/2007	*	---	---	---	---	0	0	0	0	---	0	0
07/18/2007	*	---	---	---	---	0	3	0	0	0	0	0
07/19/2007	*	---	---	---	---	0	0	0	0	---	0	---
07/20/2007		---	---	---	---	0	0	0	0	0	0	0
07/21/2007	*	---	---	---	---	0	3	0	2	---	0	---
07/22/2007	*	---	---	---	---	0	3	0	0	0	0	0
07/23/2007	*	---	---	---	---	0	0	0	1	---	0	---
07/24/2007		---	---	---	---	0	0	0	0	0	0	0
07/25/2007	*	---	---	---	---	0	0	0	0	---	0	---
07/26/2007	*	---	---	---	---	0	6	0	0	0	0	0
07/27/2007		---	---	---	---	---	---	---	---	---	---	---
Total:		**0**	**0**	**0**	**0**	**0**	**21**	**0**	**3**	**0**	**205**	**276**
# Days:		**0**	**0**	**0**	**0**	**14**	**14**	**14**	**14**	**8**	**14**	**10**
Average:		**0**	**0**	**0**	**0**	**0**	**2**	**0**	**0**	**0**	**15**	**28**
YTD		**27**	**0**	**0**	**413**	**20,682**	**17,121**	**5,735**	**16,425**	**513,701**	**790,330**	**171,263**

* 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: 7/27/07 10:17 AM

07/13/07 TO 07/27/07

		Species					
Site	Data	**CH0**	**CH1**	**CO**	**SO**	**ST**	**Grand Total**
LGR	Sum of NumberCollected	5,225	3	4		41	5,273
	Sum of NumberBarged	2,538	3	4		39	2,584
	Sum of NumberBypassed	2,429	0	0		0	2,429
	Sum of Numbertrucked	0	0	0		0	0
	Sum of SampleMorts	35	0	0		1	36
	Sum of FacilityMorts	51	0	0		0	51
	Sum of ResearchMorts	120	0	0		0	120
	Sum of TotalProjectMorts	206	0	0		1	207
LGS	Sum of NumberCollected	8,278	28	366	14	8,429	17,115
	Sum of NumberBarged	8,382	28	339	6	8,162	16,917
	Sum of NumberBypassed	8	0	0	0	0	8
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of SampleMorts	35	0	13	1	15	64
	Sum of FacilityMorts	41	0	1	4	25	71
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	76	0	14	5	40	135
LMN	Sum of NumberCollected	1,924	8	30		374	2,336
	Sum of NumberBarged	2,142	12	32		390	2,576
	Sum of NumberBypassed	6	0	0		6	12
	Sum of Numbertrucked	0	0	0		0	0
	Sum of SampleMorts	9	0	0		4	13
	Sum of FacilityMorts	37	0	0		4	41
	Sum of ResearchMorts	0	0	0		0	0
	Sum of TotalProjectMorts	46	0	0		8	54
MCN	Sum of NumberCollected	291,893		50		155	292,098
	Sum of NumberBarged	0		0		0	0
	Sum of NumberBypassed	291,489		50		155	291,694
	Sum of Numbertrucked	0		0		0	0
	Sum of SampleMorts	180		0		0	180
	Sum of FacilityMorts	183		0		0	183
	Sum of ResearchMorts	41		0		0	41
	Sum of TotalProjectMorts	404		0		0	404
Total Sum of NumberCollected		307,320	39	450	14	8,999	316,822
Total Sum of NumberBarged		13,062	43	375	6	8,591	22,077
Total Sum of NumberBypassed		293,932	0	50	0	161	294,143
Total Sum of Numbertrucked		0	0	0	0	0	0
Total Sum of SampleMorts		259	0	13	1	20	293
Total Sum of FacilityMorts		312	0	1	4	29	346
Total Sum of ResearchMorts		161	0	0	0	0	161
Total Sum of TotalProjectMorts		732	0	14	5	49	800

YTD Transportation Summary

Source: Fish Passage Center Updated: 7/27/07 10:17 AM

TO: 07/27/07

		Species					
Site	Data	**CH0**	**CH1**	**CO**	**SO**	**ST**	**Grand Total**
LGR	Sum of NumberCollected	187,146	1,578,085	38,267	15,920	1,367,754	3,187,172
	Sum of NumberBarged	142,489	1,125,031	36,815	15,540	1,185,493	2,505,368
	Sum of NumberBypassed	40,107	451,109	1,432	356	181,734	674,738
	Sum of NumberTrucked	1,584	0	0	0	32	1,616
	Sum of SampleMorts	219	57	1	2	32	311
	Sum of FacilityMorts	1,345	1,008	19	22	462	2,856
	Sum of ResearchMorts	1,227	880	0	0	0	2,107
	Sum of TotalProjectMorts	2,791	1,945	20	24	494	5,274
LGS	Sum of NumberCollected	298,821	463,092	39,913	12,005	1,315,089	2,128,920
	Sum of NumberBarged	294,187	398,139	39,333	11,550	1,192,169	1,935,378
	Sum of NumberBypassed	3,869	64,720	541	433	121,828	191,391
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	71	31	17	3	45	167
	Sum of FacilityMorts	229	197	5	16	716	1,163
	Sum of ResearchMorts	110	7	0	0	0	117
	Sum of TotalProjectMorts	410	235	22	19	761	1,447
LMN	Sum of NumberCollected	42,083	279,123	13,520	4,155	574,030	912,911
	Sum of NumberBarged	37,790	270,564	13,497	4,130	562,046	888,027
	Sum of NumberBypassed	4,089	8,083	21	2	11,465	23,660
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	81	30	0	0	79	190
	Sum of FacilityMorts	108	393	2	23	443	969
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	189	423	2	23	522	1,159
MCN	Sum of NumberCollected	2,156,684	1,316,837	58,662	304,436	222,727	4,059,346
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	2,154,886	1,315,864	58,647	303,929	222,328	4,055,654
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	547	141	4	58	33	783
	Sum of FacilityMorts	1,011	819	11	447	366	2,654
	Sum of ResearchMorts	241	13	0	2	0	256
	Sum of TotalProjectMorts	1,799	973	15	507	399	3,693
Total Sum of NumberCollected		2,684,734	3,637,137	150,362	336,516	3,479,600	10,288,349
Total Sum of NumberBarged		474,466	1,793,734	89,645	31,220	2,939,708	5,328,773
Total Sum of NumberBypassed		2,202,951	1,839,776	60,641	304,720	537,355	4,945,443
Total Sum of NumberTrucked		1,584	0	0	0	32	1,616
Total Sum of SampleMorts		918	259	22	63	189	1,451
Total Sum of FacilityMorts		2,693	2,417	37	508	1,987	7,642
Total Sum of ResearchMorts		1,578	900	0	2	0	2,480
Total Sum of TotalProjectMorts		5,189	3,576	59	573	2,176	11,573

Cumulative Adult Passage at Mainstem Dams Through: 07/26

		Spring Chinook						Summer Chinook						Fall Chinook					
		2007		2006		10-Yr Avg.		2007		2006		10-Yr Avg.		2007		2006		10-Yr Avg.	
DAM	EndDate	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack
BON	07/25	66624	16606	96456	2908	156175	8234	46058	13157	95319	4069	66762	7491	0	0	0	0	0	0
TDA	07/25	52795	15406	61827	2176	108412	6003	38273	10691	78057	3297	56721	5294	0	0	0	0	0	0
JDA	07/25	43379	13663	50313	2093	90974	4767	33761	10411	70747	3570	52398	5185	0	0	0	0	0	0
MCN	07/25	38852	12252	45887	2475	83968	5029	29628	8445	58548	2888	49540	4668	0	0	0	0	0	0
IHR	07/25	28047	7308	25434	875	56277	3172	7478	2456	8238	508	11332	1831	0	0	0	0	0	0
LMN	07/25	26963	6934	23589	548	53700	2904	11006	1414	9276	459	10878	1452	0	0	0	0	0	0
LGS	07/25	23953	7227	20836	733	51418	2974	7176	2744	7415	542	9317	1726	0	0	0	0	0	0
LGR	07/25	22481	8971	22530	973	51737	3293	6939	3132	6354	573	9358	1875	0	0	0	0	0	0
PRD	07/23	6708	489	8535	81	17371	512	24153	724	49728	248	39653	1377	0	0	0	0	0	0
RIS	07/25	5572	2066	9643	483	14040	762	22247	4456	53063	1227	36592	3175	0	0	0	0	0	0
RRH	07/25	2424	920	5376	274	5343	306	15099	3298	32088	1003	24556	1918	0	0	0	0	0	0
WEL	07/25	2040	752	4159	217	3869	205	7987	1590	16814	642	15594	609	0	0	0	0	0	0
WFA	07/23	22682	244	36657	186	7139	102	0	0	0	0	0	0	0	0	0	0	0	0

	Coho						Sockeye			Steelhead			
	2007		2006		10-Yr Avg.				10-Yr			10-Yr	Wild
DAM	Adult	Jack	Adult	Jack	Adult	Jack	2007	2006	Avg.	2007	2006	Avg.	2007
BON	3	0	0	0	0	0	24171	36765	60451	51738	45931	73735	19423
TDA	0	0	1	0	0	0	18945	29825	50468	21294	16685	34013	8068
JDA	2	0	0	0	1	0	23862	34985	54698	17107	18860	26756	5956
MCN	0	0	0	0	0	0	17987	28979	46402	12491	10578	16830	3670
IHR	0	0	0	0	0	0	55	36	30	6856	5211	8644	1166
LMN	0	0	0	0	0	0	41	12	31	7837	5923	7484	1755
LGS	0	0	0	0	0	0	33	15	34	4167	3551	5035	1085
LGR	0	0	0	0	0	0	53	13	36	11952	8246	8945	2663
PRD	0	1	0	0	1	0	23352	26173	55925	679	644	1279	0
RIS	0	0	0	0	1	0	24109	33823	51315	608	475	1006	308
RRH	0	0	0	0	1	0	19417	23961	35028	526	380	715	223
WEL	0	0	0	0	0	0	19587	19088	32937	209	128	282	108
WFA	2	0	0	0	0	0	0	0	0	17713	24348	4241	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: 07/27/07

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