Fish Passage Center
Weekly Report #07 - 20

July 20, 2007

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Summary of Events:

Water Supply: Precipitation throughout the Columbia Basin has varied between 1% and 12% of average at individual sub-basins over the first one-half of July. Precipitation above The Dalles has been 5% of average over July. Over the entire water year, precipitation has varied between 72% and 108% 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 1-16		Water Year 2007 October 1, 2006 to July 16, 2007	
	Observed (inches)	% Average	Observed (inches)	% Average
Columbia Above Coulee	0.03	3	22.04	103
Snake River Above Ice Harbor	0.04	9	12.09	78
Columbia Above The Dalles	0.03	5	19.61	96
Kootenai	0.01	1	23.67	108
Clark Fork	0.04	6	14.75	100
Flathead	0.02	3	18.78	96
Pend Oreille/Spokane	0.02	3	25.15	90
Central Washington	0.01	6	7.42	91
Snake River Plain	0.02	8	7.13	72
Salmon/Boise/ Payette	0.05	12	14.08	78
Clearwater	0.01	1	25.64	93
SW Washington Cascades/Cowlitz	0.03	5	64.55	97
Willamette Valley	0.02	4	56.73	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 1287.4 feet (7-19-07) and drafted 1.7 feet last week. Outflows at Grand Coulee ranged between 128.2 and 152.1 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 1580.9 feet (7-19-07) and drafted 6.2 feet last week. Outflows at Dworshak have been approximately 9.7 Kcfs over the last several days.

The Libby Reservoir is currently at elevation 2454.1 feet (7-19-07) and refilled 0.4 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 3555.4 feet (7-19-07) and drafted 1.4 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 2061.0 feet on July 19th, 2007, drafting 3.5 feet last week. Outflows at Brownlee Dam have been 11.7 to 16.0 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 182.8 Kcfs over the summer season to date and 197.1 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 34.3 Kcfs over the summer season to date and 32.2 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	30%/30% vs 45Kcfs/Gas Cap Study

Spill at Lower Granite Dam over the past week met the summer spill level of 18 Kcfs as per the Court Order. Little Goose Dam has met the Court Order over the past week, which remains at the same 30% of instantaneous flow as was required during the spring spill period.

According to the Court Order, summer spill at Lower Monumental Dam of 17 Kcfs spill for 24 hours daily began on June 21st. Lower Monumental Dam has met that objective over the past week. Ice Harbor spill is being provided to achieve the study conditions specified in the Court's Order.

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 the 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 has been gradually increased to about 160 Kcfs since TDG at the Camas/Washougal monitor has not exceeded the 115% TDG waiver for several days. This better enables the project to achieve the Court's Order.

Total dissolved gas waivers were not exceeded at the federal hydroprojects throughout the past week. Gas bubble trauma (GBT) monitoring continued this week at Little Goose, Lower Monumental, McNary, Rock Island and Bonneville dams. Only one fish (at Rock Island) was observed with minor 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 sites, while at all Columbia River SMP sites, indices decreased but remained relatively high.

At Lower Granite Dam, there was a decrease in the average subyearling passage index, with the average this week at 1,100 per day compared to 3,500 per day last week. Indices of subyearling Chinook decreased at Little Goose and Lower Monumental dams this past week. Based on seasonal estimates of detection probability, the estimated total population index (as opposed to the passage index) for subyearling Chinook passing the Snake projects was just over 1 million, based on an estimated seasonal detection probability of 16%. Using the historic detection probability data to develop a multiple regression relationship between detection and flow and spill variables, the seasonal detection probability was estimated near 12%. The resulting seasonal population index would be near 2 million based on the second approach. It's likely that the actual population was somewhere between these two estimates.

At Rock Island Dam, the subyearling index was averaging 280 per day this week, about the same as last week.

In the Lower Columbia, at McNary Dam, numbers of subyearling Chinook decreased this week. While at John Day and Bonneville dams, the weekly average subyearling index continued to reflect the increased passage seen at McNary Dam the past two weeks. At John Day Dam the project went to bypass beginning on July 17th due to high temperatures. At Bonneville Dam the index averaged 55,000 this week compared to 88,000 per day last week, before high temperatures interrupted sampling beginning August 19. Sampling will occur on an every other day basis at this project until temperatures decrease.

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:

Daily passage numbers at Bonneville Dam have ranged between 102 and 283 adult summer Chinook in the last week. The 2007 summer Chinook count of 43,663 is about 68.8 percent of the 10-year average count and 47.8 percent of the 2006 count. The summer Chinook jack count of 12,446 at Bonneville Dam is presently 3.38 times greater than observed in 2006, and 1.80 times greater than the 10-year average count to date. The adult summer Chinook count total at The Dalles Dam was 35,973 through July 19th, about 82.3 percent of the Bonneville passage total to date. A total of 27,621 summer Chinook have passed McNary Dam. The adult summer Chinook count total at Lower Granite Dam in the Snake River, was 6,465 through July 18th. The 2007 adult summer Chinook count at Rock Island Dam in the upper Columbia River was 18,807 with daily totals ranging from 363 to 750.

As of July 19th, 34,013 steelhead had passed Bonneville Dam which was 2,139 more than the 2006 count. The 2007 Bonneville steelhead count was about 65.3 percent of the 10-year average. The daily steelhead counts at The Dalles Dam ranged between 557 and 1,164 for the week with the cumulative count of 15,264. About 44.8 percent of the steelhead counted at Bonneville have passed The Dalles Dam. The majority of the 9,058 steelhead counted at McNary Dam have moved up into the Snake River with the cumulative count at Ice Harbor now at 6,081 for the season. The cumulative count at Priest Rapids was at 393 for the season.

As of July 19th, 2,564,326 adult Shad were counted at Bonneville Dam this season with daily counts ranging from 943 to 2,124. Adult sockeye counts increased at Bonneville with the count through July 19th at 23,971. This year's sockeye count is about 65.9 percent of the 2006 count and 40.1 percent of the 10-year average count. About 21,342 of the adult sockeye have been counted at Priest Rapids Dam. This year's count is about 87.0 percent of the 2006 adult sockeye count at Priest Rapids Dam and 41.0 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 54 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
07/06/07	102.3	0.2	98.0	0.0	112.7	8.8	118.7	11.1	126.9	23.6	141.1	12.3	145.2	23.3
07/07/07	97.0	0.1	103.6	0.0	106.3	7.9	107.8	9.0	115.5	21.2	115.0	10.2	109.2	24.1
07/08/07	83.0	0.2	84.2	0.0	95.6	6.7	98.6	7.0	105.2	17.1	124.2	9.9	121.1	24.0
07/09/07	132.4	0.4	123.4	0.0	134.9	9.8	134.1	12.1	137.6	27.1	140.8	9.3	140.9	20.8
07/10/07	146.8	0.1	143.3	0.0	145.9	10.0	140.6	12.9	144.4	30.9	144.1	9.4	138.4	23.8
07/11/07	145.2	0.2	143.7	0.0	152.3	10.0	149.7	12.7	153.4	30.2	151.8	16.7	149.2	23.3
07/12/07	143.9	0.2	151.3	0.0	155.0	10.0	151.9	12.8	156.9	27.7	160.2	18.5	158.3	23.7
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

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
07/06/07	11.8	2.3	9.2	13.7	36.0	18.1	34.9	10.5	34.4	17.1	34.4	15.2
07/07/07	11.9	2.4	9.8	15.3	34.8	18.3	35.4	10.5	33.8	16.4	32.4	15.3
07/08/07	11.9	2.4	10.4	15.4	40.5	18.0	39.4	11.8	39.3	17.2	38.8	15.3
07/09/07	11.9	2.3	9.9	17.8	34.7	18.1	37.7	11.3	37.5	16.8	38.5	24.5
07/10/07	11.9	2.3	9.3	12.2	39.7	17.9	37.7	11.2	37.0	17.1	37.0	27.0
07/11/07	11.8	2.3	8.6	13.4	32.7	17.8	34.1	10.6	33.4	16.8	32.7	17.6
07/12/07	11.8	2.2	9.5	13.2	34.7	17.7	33.0	10.1	34.6	17.1	34.2	15.2
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	---	---	28.9	16.5	28.6	8.6	27.4	15.1	28.5	18.3

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
07/06/07	197.3	76.8	184.1	55.3	176.3	70.3	187.0	87.3	0.0	88.2
07/07/07	155.6	62.3	147.4	44.2	145.4	58.3	162.1	88.0	0.0	62.6
07/08/07	173.2	96.4	157.7	47.1	154.2	61.8	165.9	88.8	0.0	65.6
07/09/07	188.4	112.5	181.7	54.5	174.1	69.8	184.1	90.2	2.5	79.9
07/10/07	177.5	78.3	166.0	49.7	165.5	66.1	181.2	91.1	3.7	75.0
07/11/07	187.4	74.8	178.1	54.0	172.4	68.6	175.3	92.3	2.1	69.3
07/12/07	189.7	106.5	177.9	52.9	174.4	69.8	190.7	94.1	6.4	78.7
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

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											
	07/10/07	Chinook + Steelhead	102	13	13	12.74%	0.00%	11	2	0	0
	07/20/07	Chinook + Steelhead	1	0	0	0.00%	0.00%	0	0	0	0
Lower Monumental Dam											
McNary Dam											
	07/13/07	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	07/15/07	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
Bonneville Dam											
	07/10/07	Chinook + Steelhead	100	1	1	1.00%	0.00%	1	0	0	0
	07/14/07	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	07/17/07	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
Rock Island Dam											
	07/12/07	Chinook + Steelhead	92	1	1	1.08%	0.00%	1	0	0	0
	07/19/07	Chinook + Steelhead	100	1	1	1.00%	0.00%	1	0	0	0

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

Total Dissolved Gas Saturation Data at Upper Columbia River Sites

	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
7/6	---	---	---	0	116	116	117	24	113	113	113	24	111	112	113	24	111	112	113	24
7/7	---	---	---	0	116	116	117	24	112	113	113	24	110	111	112	24	111	112	112	24
7/8	---	---	---	0	116	117	117	24	112	113	113	24	110	111	111	24	111	112	112	24
7/9	107	107	107	13	116	116	117	24	112	112	113	24	111	111	113	24	111	111	112	24
7/10	106	106	107	24	113	114	115	23	112	113	113	24	109	110	111	24	111	111	112	24
7/11	107	107	108	24	113	114	115	24	112	113	113	24	110	110	111	24	111	111	111	24
7/12	107	107	108	24	113	113	117	24	113	113	114	24	110	110	112	24	111	111	111	24
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

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
7/6	112	113	113	24	112	113	114	24	114	115	116	24	113	113	114	24	113	114	115	24
7/7	111	112	112	24	111	112	112	24	113	114	115	24	113	114	115	24	113	114	115	24
7/8	111	112	113	24	111	112	113	24	113	113	114	24	112	112	113	24	112	112	112	24
7/9	111	112	112	24	111	111	112	24	112	113	114	24	111	111	112	24	112	112	112	24
7/10	111	111	112	24	110	111	111	24	112	113	113	24	111	112	112	24	112	112	113	24
7/11	110	111	111	24	111	112	113	24	113	114	114	24	112	112	113	24	112	113	113	24
7/12	110	111	111	24	111	112	112	24	113	114	114	24	112	112	113	24	113	113	114	24
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

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
7/6	113	113	114	24	117	117	118	24	110	111	111	24	115	116	118	24	114	115	116	24
7/7	112	113	114	24	116	117	118	24	110	111	113	24	114	116	118	24	111	113	115	24
7/8	111	112	112	24	116	117	119	24	109	109	110	24	113	115	118	24	110	111	114	24
7/9	111	112	113	24	116	116	117	24	109	112	114	24	113	114	116	24	111	113	115	24
7/10	111	112	113	24	116	117	117	24	109	111	112	24	114	115	116	24	112	114	116	24
7/11	112	112	113	24	117	118	118	24	110	112	115	24	114	116	118	24	114	115	116	24
7/12	112	112	113	24	117	118	118	24	110	112	113	24	116	117	119	24	115	116	118	24
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	---	---	---	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
7/6	116	117	117	24	112	113	114	24	103	103	104	24	---	---	---	0	103	104	106	24
7/7	114	114	115	24	110	111	111	24	103	104	104	24	---	---	---	0	102	104	105	24
7/8	113	114	115	24	108	109	110	24	103	104	104	24	105	106	107	24	102	104	105	24
7/9	113	114	115	24	109	110	111	24	103	103	104	24	105	106	107	24	102	104	105	24
7/10	115	116	116	24	110	110	111	24	103	103	104	24	105	106	107	24	103	104	106	24
7/11	116	116	117	24	111	112	113	24	104	104	105	24	105	107	108	24	103	105	106	24
7/12	116	117	118	24	111	111	112	24	104	104	105	24	105	106	107	24	103	104	105	24
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	---	---	---	0	109	110	110	24	99	100	100	24	102	104	104	24	101	103	104	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
7/6	105	107	109	24	102	103	103	24	114	115	116	24	110	110	110	24	109	109	110	24
7/7	105	107	109	24	100	101	101	24	115	115	116	24	110	110	111	24	109	109	110	24
7/8	105	107	109	24	102	103	104	24	112	113	115	24	110	110	111	24	109	109	110	24
7/9	105	107	109	24	103	104	104	24	114	115	116	24	110	110	111	24	109	109	110	24
7/10	105	108	109	24	103	104	104	24	112	114	115	24	109	109	110	24	108	109	110	24
7/11	106	108	110	23	103	103	104	24	112	112	113	24	109	110	110	24	109	109	112	24
7/12	105	107	108	24	103	103	104	24	112	112	112	24	110	110	111	24	108	109	110	24
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

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
7/6	107	108	108	24	114	114	115	24	111	111	111	24	111	111	112	24	---	---	---	0
7/7	107	108	108	24	113	114	114	24	111	112	112	24	111	112	112	24	---	---	---	0
7/8	107	108	108	24	113	113	114	24	112	112	112	24	111	112	112	24	---	---	---	0
7/9	107	107	108	24	113	113	114	11	111	111	112	24	114	115	116	24	---	---	---	0
7/10	107	107	108	24	115	115	118	14	111	111	111	24	114	115	115	24	---	---	---	0
7/11	108	108	108	24	114	114	115	24	111	111	112	24	112	113	114	24	---	---	---	0
7/12	108	108	108	24	114	114	115	24	111	111	112	24	111	111	112	24	---	---	---	0
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

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
7/6	113	114	114	24	117	118	119	24	108	108	109	24	115	116	116	24	107	108	109	24
7/7	112	113	113	24	119	119	119	24	107	107	108	24	113	114	114	24	106	106	107	24
7/8	111	112	112	24	116	117	119	24	106	106	107	24	113	114	114	24	106	106	106	24
7/9	111	111	112	24	115	116	117	24	106	107	107	24	115	117	118	24	106	107	109	24
7/10	110	110	111	24	116	118	119	24	107	108	109	24	115	117	118	24	110	110	111	24
7/11	110	110	111	24	117	118	119	24	108	108	110	24	115	117	118	24	110	110	111	24
7/12	111	111	113	24	117	118	118	24	108	109	110	24	115	118	119	24	109	109	110	24
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

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
7/6	112	113	113	24	107	107	108	24	---	---	---	0	111	112	113	24	115	115	116	24
7/7	112	112	113	24	105	106	106	24	---	---	---	0	109	110	112	24	115	116	117	24
7/8	111	111	112	24	104	105	105	24	---	---	---	0	110	111	113	24	115	116	117	24
7/9	111	112	113	24	106	106	107	24	---	---	---	0	111	113	114	24	115	116	117	24
7/10	113	114	115	24	108	109	110	24	---	---	---	0	111	112	112	24	115	116	117	24
7/11	113	114	115	24	111	111	112	24	---	---	---	0	112	114	115	24	115	116	117	24
7/12	113	113	114	24	110	111	111	24	---	---	---	0	113	115	116	24	116	116	118	24
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

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)
07/06/2007	*	---	---	---	---	0	14	4	3	170	410	109
07/07/2007	*	---	---	---	---	0	0	0	1	---	0	0
07/08/2007		---	---	---	---	0	0	0	1	0	410	0
07/09/2007	*	---	---	---	---	7	0	0	0	---	0	59
07/10/2007		---	---	---	---	0	0	4	0	503	205	43
07/11/2007	*	---	---	---	---	8	0	0	0	---	0	49
07/12/2007	*	---	---	---	---	0	0	9	0	0	0	98
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		---	---	---	---	---	---	---	---	---	---	---
Total:		**0**	**0**	**0**	**0**	**20**	**55**	**34**	**19**	**673**	**1,229**	**677**
# Days:		**0**	**0**	**0**	**0**	**14**	**14**	**14**	**14**	**8**	**14**	**13**
Average:		**0**	**0**	**0**	**0**	**1**	**4**	**2**	**1**	**84**	**88**	**52**
YTD		**43,491**	**86,948**	**15,108**	**6,553**	**2,247,458**	**655,128**	**355,453**	**23,760**	**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)
07/06/2007	*	---	---	---	---	5,593	5,710	1,475	455	404,350	143,110	87,810
07/07/2007	*	---	---	---	---	2,578	4,710	1,204	247	---	106,889	135,322
07/08/2007		---	---	---	---	2,344	7,660	684	277	420,162	109,196	68,719
07/09/2007	*	---	---	---	---	4,259	4,907	860	283	---	118,724	85,983
07/10/2007		---	---	---	---	2,533	3,114	913	295	256,845	166,100	90,209
07/11/2007	*	---	---	---	---	2,661	1,986	615	248	---	149,910	67,449
07/12/2007	*	---	---	---	---	2,099	818	655	183	513,804	135,516	78,777
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		---	---	---	---	---	---	---	---	---	---	---
Total:		**0**	**0**	**0**	**0**	**29,608**	**36,778**	**9,757**	**3,560**	**1,983,635**	**1,604,204**	**946,692**
# Days:		**0**	**0**	**0**	**0**	**14**	**14**	**14**	**14**	**8**	**14**	**13**
Average:		**0**	**0**	**0**	**0**	**2,115**	**2,627**	**697**	**254**	**247,954**	**114,586**	**72,822**
YTD		**0**	**82**	**90**	**255**	**317,025**	**425,738**	**76,679**	**8,977**	**4,021,933**	**2,773,237**	**3,856,185**

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)
07/06/2007	*	---	---	---	---	0	57	0	6	0	410	109
07/07/2007	*	---	---	---	---	0	0	0	0	---	0	0
07/08/2007		---	---	---	---	0	16	0	1	0	0	0
07/09/2007	*	---	---	---	---	0	14	0	5	---	0	98
07/10/2007		---	---	---	---	8	57	19	0	0	205	130
07/11/2007	*	---	---	---	---	8	26	4	0	---	0	49
07/12/2007	*	---	---	---	---	0	6	4	1	86	412	0
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		---	---	---	---	---	---	---	---	---	---	---
Total:		**0**	**0**	**0**	**0**	**21**	**404**	**68**	**32**	**86**	**1,641**	**386**
# Days:		**0**	**0**	**0**	**0**	**14**	**14**	**14**	**14**	**8**	**14**	**13**
Average:		**0**	**0**	**0**	**0**	**2**	**29**	**5**	**2**	**11**	**117**	**30**
YTD		**0**	**0**	**0**	**57**	**50,689**	**55,389**	**17,990**	**64,387**	**99,041**	**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)
07/06/2007	*	---	---	---	---	68	1,090	126	0	424	205	435
07/07/2007	*	---	---	---	---	41	678	69	1	---	0	437
07/08/2007		---	---	---	---	40	601	0	8	0	0	0
07/09/2007	*	---	---	---	---	30	230	30	3	---	0	59
07/10/2007		---	---	---	---	51	172	67	0	503	205	0
07/11/2007	*	---	---	---	---	0	263	67	3	---	615	49
07/12/2007	*	---	---	---	---	0	158	96	1	86	618	147
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		---	---	---	---	---	---	---	---	---	---	---
Total:		**0**	**0**	**0**	**0**	**309**	**9,541**	**1,115**	**17**	**1,099**	**2,571**	**2,009**
# Days:		**0**	**0**	**0**	**0**	**14**	**14**	**14**	**14**	**8**	**14**	**13**
Average:		**0**	**0**	**0**	**0**	**22**	**682**	**80**	**1**	**137**	**184**	**155**
YTD		**3,734**	**45,908**	**1,940**	**7,792**	**1,859,230**	**1,856,927**	**740,120**	**18,527**	**376,236**	**960,268**	**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)
07/06/2007	*	---	---	---	---	0	0	0	0	85	0	0
07/07/2007	*	---	---	---	---	0	0	0	0	---	205	0
07/08/2007		---	---	---	---	0	0	0	0	172	205	0
07/09/2007	*	---	---	---	---	0	0	0	0	---	205	0
07/10/2007		---	---	---	---	0	0	0	0	0	0	0
07/11/2007	*	---	---	---	---	0	0	0	0	---	0	0
07/12/2007	*	---	---	---	---	0	0	0	0	0	0	49
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		---	---	---	---	---	---	---	---	---	---	---
Total:		**0**	**0**	**0**	**0**	**0**	**9**	**0**	**0**	**257**	**820**	**325**
# Days:		**0**	**0**	**0**	**0**	**14**	**14**	**14**	**14**	**8**	**14**	**13**
Average:		**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**32**	**59**	**25**
YTD		**27**	**0**	**0**	**413**	**20,682**	**17,109**	**5,735**	**16,422**	**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: 7/20/07 11:08 AM

07/06/07 TO 07/20/07

		Species					
Site	Data	**CH0**	**CH1**	**CO**	**SO**	**ST**	**Grand Total**
LGR	Sum of NumberCollected	14,350	10	10		148	14,518
	Sum of NumberBarged	8,482	10	9		146	8,647
	Sum of NumberBypassed	5,039	0	0		0	5,039
	Sum of Numbertrucked	0	0	0		0	0
	Sum of SampleMorts	49	0	0		0	49
	Sum of FacilityMorts	500	0	1		2	503
	Sum of ResearchMorts	280	0	0		0	280
	Sum of TotalProjectMorts	829	0	1		2	832
LGS	Sum of NumberCollected	25,580	38	281	6	6,617	32,522
	Sum of NumberBarged	25,447	38	273	4	6,565	32,327
	Sum of NumberBypassed	33	0	0	0	0	33
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of SampleMorts	28	0	6	1	15	50
	Sum of FacilityMorts	71	0	2	1	37	111
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	99	0	8	2	52	161
LMN	Sum of NumberCollected	4,876	16	34		534	5,460
	Sum of NumberBarged	4,785	16	34		520	5,355
	Sum of NumberBypassed	6	0	0		4	10
	Sum of Numbertrucked	0	0	0		0	0
	Sum of SampleMorts	37	0	0		5	42
	Sum of FacilityMorts	48	0	0		5	53
	Sum of ResearchMorts	0	0	0		0	0
	Sum of TotalProjectMorts	85	0	0		10	95
MCN	Sum of NumberCollected	1,055,398	300	50	150	550	1,056,448
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	1,053,989	300	50	150	550	1,055,039
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of SampleMorts	372	0	0	0	0	372
	Sum of FacilityMorts	851	0	0	0	0	851
	Sum of ResearchMorts	186	0	0	0	0	186
	Sum of TotalProjectMorts	1,409	0	0	0	0	1,409
Total Sum of NumberCollected		1,100,204	364	375	156	7,849	1,108,948
Total Sum of NumberBarged		38,714	64	316	4	7,231	46,329
Total Sum of NumberBypassed		1,059,067	300	50	150	554	1,060,121
Total Sum of Numbertrucked		0	0	0	0	0	0
Total Sum of SampleMorts		486	0	6	1	20	513
Total Sum of FacilityMorts		1,470	0	3	1	44	1,518
Total Sum of ResearchMorts		466	0	0	0	0	466
Total Sum of TotalProjectMorts		2,422	0	9	2	64	2,497

YTD Transportation Summary

Source: Fish Passage Center Updated: 7/20/07 11:08 AM

TO: 07/20/07

		Species					
Site	Data	**CH0**	**CH1**	**CO**	**SO**	**ST**	**Grand Total**
LGR	Sum of NumberCollected	185,375	1,578,084	38,265	15,920	1,367,749	3,185,393
	Sum of NumberBarged	140,960	1,125,030	36,813	15,540	1,185,490	2,503,833
	Sum of NumberBypassed	40,065	451,109	1,432	356	181,734	674,696
	Sum of NumberTrucked	1,584	0	0	0	32	1,616
	Sum of SampleMorts	197	57	1	2	31	288
	Sum of FacilityMorts	1,342	1,008	19	22	462	2,853
	Sum of ResearchMorts	1,227	880	0	0	0	2,107
	Sum of TotalProjectMorts	2,766	1,945	20	24	493	5,248
LGS	Sum of NumberCollected	295,984	463,092	39,705	11,997	1,311,054	2,121,832
	Sum of NumberBarged	291,744	398,139	39,149	11,548	1,188,477	1,929,057
	Sum of NumberBypassed	3,867	64,720	541	433	121,828	191,389
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	56	31	10	3	40	140
	Sum of FacilityMorts	206	197	5	13	709	1,130
	Sum of ResearchMorts	110	7	0	0	0	117
	Sum of TotalProjectMorts	372	235	15	16	749	1,387
LMN	Sum of NumberCollected	41,738	279,123	13,510	4,155	573,961	912,487
	Sum of NumberBarged	37,477	270,564	13,487	4,130	561,996	887,654
	Sum of NumberBypassed	4,086	8,083	21	2	11,462	23,654
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	81	30	0	0	78	189
	Sum of FacilityMorts	94	393	2	23	442	954
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	175	423	2	23	520	1,143
MCN	Sum of NumberCollected	2,036,829	1,316,837	58,612	304,436	222,622	3,939,336
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	2,035,185	1,315,864	58,597	303,929	222,223	3,935,798
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	458	141	4	58	33	694
	Sum of FacilityMorts	950	819	11	447	366	2,593
	Sum of ResearchMorts	237	13	0	2	0	252
	Sum of TotalProjectMorts	1,645	973	15	507	399	3,539
Total Sum of NumberCollected		2,559,926	3,637,136	150,092	336,508	3,475,386	10,159,048
Total Sum of NumberBarged		470,181	1,793,733	89,449	31,218	2,935,963	5,320,544
Total Sum of NumberBypassed		2,083,203	1,839,776	60,591	304,720	537,247	4,825,537
Total Sum of NumberTrucked		1,584	0	0	0	32	1,616
Total Sum of SampleMorts		792	259	15	63	182	1,311
Total Sum of FacilityMorts		2,592	2,417	37	505	1,979	7,530
Total Sum of ResearchMorts		1,574	900	0	2	0	2,476
Total Sum of TotalProjectMorts		4,958	3,576	52	570	2,161	11,317

Cumulative Adult Passage at Mainstem Dams Through: 07/19

		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	07/19	66624	16606	96456	2908	156175	8234	43663	12446	91325	3682	63407	6905	0	0	0	0	0	0
TDA	07/19	52795	15406	61827	2176	108412	6003	35973	10085	75029	2966	53809	4821	0	0	0	0	0	0
JDA	07/19	43379	13663	50313	2093	90974	4767	31733	9608	67400	3014	49471	4648	0	0	0	0	0	0
MCN	07/18	38852	12252	45887	2475	83968	5029	27621	7724	56089	2633	46021	4154	0	0	0	0	0	0
IHR	07/19	28047	7308	25434	875	56277	3172	7222	2270	8083	481	11165	1789	0	0	0	0	0	0
LMN	07/19	26963	6934	23589	548	53700	2904	10345	1375	8925	409	10678	1406	0	0	0	0	0	0
LGS	07/19	23953	7227	20836	733	51418	2974	6762	2564	6871	491	9074	1660	0	0	0	0	0	0
LGR	07/18	22481	8971	22530	973	51737	3293	6465	2824	5838	506	9057	1760	0	0	0	0	0	0
PRD	07/16	6708	489	8535	81	17371	512	20981	632	44930	130	34019	1139	0	0	0	0	0	0
RIS	07/18	5572	2066	9643	483	14040	762	18807	3702	47778	969	30892	2504	0	0	0	0	0	0
RRH	07/18	2424	920	5376	274	5343	306	11850	2314	27365	732	19428	1417	0	0	0	0	0	0
WEL	07/13	2040	752	4159	217	3869	205	4422	704	11539	350	8668	304	0	0	0	0	0	0
WFA	07/18	22545	239	36564	186	7125	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	1	0	0	0	0	0	23971	36347	59731	34013	31874	52048	12230
TDA	0	0	1	0	0	0	18749	29469	49811	15264	13224	25027	5634
JDA	1	0	0	0	1	0	23539	34401	53733	13520	15360	20532	4548
MCN	0	0	0	0	0	0	17438	28508	45155	9058	8388	12142	2304
IHR	0	0	0	0	0	0	54	36	29	6081	4687	6837	1063
LMN	0	0	0	0	0	0	41	12	31	6803	5414	6135	1552
LGS	0	0	0	0	0	0	29	14	34	3643	3383	4303	972
LGR	0	0	0	0	0	0	41	12	35	11505	8069	8300	2529
PRD	0	1	0	0	1	0	21342	24511	51928	393	376	752	0
RIS	0	0	0	0	1	0	22362	30337	46387	344	280	620	160
RRH	0	0	0	0	1	0	17511	20542	30609	372	258	468	160
WEL	0	0	0	0	0	0	12473	9963	21096	104	66	97	59
WFA	2	0	0	0	0	0	0	0	0	17535	24108	4205	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: 07/20/07

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