



Fish Passage Center Weekly Report #07 - 22

August 3, 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
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 1284.8 feet (8-2-07) and drafted 1.3 feet last week. Outflows at Grand Coulee ranged between 111.3 and 142.2 Kcfs last week. The summer end of August draft limit at Grand Coulee is 1278 feet.

Dworshak is currently at an elevation of 1565.1 feet (8-2-07) and drafted 7.0 feet last week. Outflows at Dworshak have been approximately 9.9 Kcfs.

The Libby Reservoir is currently at elevation 2451.5 feet (8-2-07) and drafted 1.7 feet last week. Outflows at Libby are currently at 17.3 Kcfs and will remain at this level through August.

Hungry Horse is currently at an elevation of 3551.7 feet (8-2-07) and drafted 2.0 feet last week. Outflows at Hungry Horse are currently at 4.4 Kcfs and will remain at this level through August.

The Brownlee Reservoir was at an elevation of 2058.0 feet on August 1st, 2007, drafting 1.7 feet last week. Outflows at Brownlee Dam have been 10.7 to 13.6 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 180.0 Kcfs over the summer season to date and 179.3 Kcfs last week.

The summer Biological Opinion flow at Lower Granite Dam is 50 Kcfs this year. Flows at Lower Granite Dam have averaged 32.4 Kcfs over the summer season to date and 28.7 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

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.

With the exception of two days (8/1 and 8/2) at the Camas/Washougal station, 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. At Little Goose Dam very late passing 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.

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

At Lower Granite Dam, there was a decrease in the average subyearling passage index, with the average this week at 400 per day compared to 600 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 just over 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 down this past week, averaging 240 per day this week compared to 418 per day last week.

In the Lower Columbia, at McNary Dam, numbers of subyearling Chinook were relatively high again this week, with the index averaging 48,000 this week compared to 59,000 last week. The index calculated for passage on July 12, was over 500,000, representing the highest passage date this season for subyearlings at McNary. While at John Day and Bonneville dams, the weekly average subyearling index rose or remained relatively steady to reflect the continued passage of subyearling Chinook through the lower River. The index at John Day Dam averaged 13,000 compared to 7,600 last week. At Bonneville Dam the index averaged 18,500 this week compared to 20,000 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: At Bonneville dam, daily counts for fall Chinook began on August 1st. On August 1st, 388 fall Chinook adults and 107 jacks passed Bonneville Dam. The 2007 season total of adult summer Chinook at Bonneville Dam was 47,882, about 69.0 percent of the 10-year average count and 49.1 percent of the 2006 count. The summer Chinook jack count of 13,686 at Bonneville Dam was 3.14 times greater than observed in 2006, and 1.71 times greater than the 10-year average count for the season. A total of 31,688 summer Chinook have passed McNary Dam. The adult summer Chinook count total at Lower Granite Dam in the Snake River, was 7,277 through August 1st. The 2007 adult summer Chinook count at Rock Island Dam in the upper Columbia River was 24,455 with daily totals ranging from 324 to 430.

As of August 1st, 74,589 steelhead had passed Bonneville Dam which was 1.24 times greater than the 2006 count. The 2007 Bonneville steelhead count was about 72.0 percent of the 10-year average. The daily steelhead counts at The Dalles Dam ranged between 912 and 1,376 for the week with the cumulative count of 29,656. About 39.7 percent of the steelhead counted at Bonneville have passed The Dalles Dam. The majority of the 17,642 steelhead counted at McNary Dam have moved up into the Snake River with the cumulative count at Ice Harbor now at 8,133 for the season. The cumulative count at Priest Rapids was at 1,221 for the season.

As of August 1st, 2,572,173 adult Shad were counted at Bonneville Dam this season with daily counts ranging from 186 to 618 this past week. Adult sockeye counts at Bonneville were at 24,287 as of August 1st. This year's sockeye count is about 65.7 percent of the 2006 count and 40.0 percent of the 10-year average count. About 24,317 of the adult sockeye have been counted at Priest Rapids Dam. This year's count is about 91.4 percent of the 2006 adult sockeye count at Priest Rapids Dam and 42.3 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

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
07/20/07	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	148.5	0.0	152.8	10.0	151.4	12.7	153.3	29.4	157.0	15.4	161.7	22.2
07/27/07	132.5	0.2	135.8	0.0	139.7	9.0	143.0	12.7	144.7	28.4	156.8	14.2	154.5	21.4
07/28/07	111.8	0.2	110.8	0.0	108.0	7.6	113.0	11.3	115.5	24.1	130.8	9.5	127.4	23.0
07/29/07	111.3	0.2	110.3	0.0	112.2	7.7	113.1	10.3	113.4	22.7	107.3	9.4	154.6	24.0
07/30/07	142.2	0.2	136.4	0.0	138.6	10.3	133.1	12.6	133.3	28.6	143.7	12.8	140.0	22.3
07/31/07	137.6	0.2	146.6	0.0	155.0	9.3	153.4	11.5	153.9	27.3	147.8	10.4	146.8	22.8
08/01/07	125.0	0.2	123.4	0.0	140.4	8.6	143.2	11.6	144.7	29.4	153.4	10.4	156.4	20.6
08/02/07	114.1	0.2	120.6	0.0	114.3	8.3	106.8	11.4	108.3	26.6	139.0	9.2	141.4	19.2

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

Date	Dworshak		Hells Canyon		Lower Granite		Little Goose		Lower Monumental		Ice Harbor	
	Flow	Spill	Inflow	Outflow	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill
07/20/07	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	9.7	12.3	26.8	14.5	26.2	8.0	24.4	11.8	25.4	15.2
07/27/07	9.8	0.0	9.3	9.8	29.3	17.0	29.4	8.8	29.4	13.6	29.6	19.5
07/28/07	9.8	0.0	10.4	11.2	28.4	15.9	29.5	8.8	28.3	14.7	28.4	18.0
07/29/07	9.9	0.0	10.2	11.9	27.5	14.7	27.8	8.4	25.8	13.6	25.4	15.2
07/30/07	9.9	0.0	8.9	12.0	29.4	16.7	28.1	8.4	29.4	16.9	29.3	19.2
07/31/07	9.9	0.0	9.6	13.4	28.5	15.8	27.1	8.0	25.5	13.3	25.8	15.9
08/01/07	9.9	0.0	9.6	11.5	30.5	17.9	30.8	9.1	28.5	18.9	28.1	18.0
08/02/07	9.9	0.0	---	---	27.4	14.9	27.9	8.4	29.8	16.6	30.5	20.6

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		
07/20/07	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
07/27/07	192.0	114.6	179.8	54.1	171.3	68.5	182.2	95.4	5.2	70.1
07/28/07	178.2	79.7	162.5	48.6	153.7	61.2	171.5	94.9	0.0	65.1
07/29/07	150.6	60.4	140.0	42.4	135.3	54.1	151.5	95.3	1.3	43.4
07/30/07	172.1	96.2	174.5	51.9	165.0	65.8	169.6	95.0	0.0	63.0
07/31/07	175.7	105.3	154.1	47.2	150.3	59.8	173.3	96.6	0.0	65.2
08/01/07	189.1	85.3	174.8	52.1	169.6	67.7	176.6	98.4	0.0	66.7
08/02/07	197.1	79.0	187.5	56.2	182.1	73.0	194.7	100.4	7.0	75.9

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

Site	Date	Species	Number of Fish	Number w GBT signs	Number w Fin Signs	% Fin GBT	% Severe Fin GBT	Number of Fish with Fin GBT Listed by Highest Rank			
								Rank 1	Rank 2	Rank 3	Rank 4
Little Goose Dam											
	07/24/07	Chinook + Steelhead	97	23	23	23.71%	0.00%	17	6	0	0
	07/31/07	Chinook + Steelhead	64	6	6	9.37%	0.00%	5	1	0	0
Lower Monumental Dam											
	07/29/07	Chinook + Steelhead	8	2	2	25.00%	0.00%	2	0	0	0
McNary Dam											
	07/27/07	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	07/29/07	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
Bonneville Dam											
	07/25/07	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	07/31/07	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
Rock Island Dam											
	07/26/07	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	07/30/07	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	08/02/07	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

Date	<u>Hungry H. Dnst</u>			<u>Boundary</u>			<u>Grand Coulee</u>			<u>Grand C. Tlwr</u>			<u>Chief Joseph</u>							
	<u>24 h</u>	<u>12 h</u>	#	<u>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>Avg</u>	<u>Avg</u>		<u>High</u>	<u>Avg</u>		<u>Avg</u>	<u>High</u>		<u>Avg</u>	<u>Avg</u>		<u>High</u>	<u>Avg</u>		<u>Avg</u>	<u>High</u>			
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	108	109	24	111	112	112	24	113	113	113	24	109	110	111	24	110	110	110	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
7/27	108	108	109	24	111	111	112	24	112	113	113	24	109	110	112	24	110	110	111	24
7/28	108	108	108	24	111	111	112	24	112	112	113	24	109	110	112	24	110	110	111	24
7/29	108	108	108	24	112	112	113	24	112	112	112	23	109	110	112	24	110	110	111	24
7/30	108	108	108	24	111	112	113	24	111	112	112	22	109	110	111	24	109	110	110	24
7/31	108	108	108	24	111	111	112	23	111	111	111	24	109	109	111	23	109	109	109	24
8/1	107	108	108	24	110	111	111	24	111	111	112	24	108	109	110	24	109	109	109	24
8/2	108	108	109	24	110	111	111	24	111	111	112	24	108	109	111	24	109	110	110	24

Total Dissolved Gas Saturation Data at Mid Columbia River Sites

Date	<u>Chief J. Dnst</u>			<u>Wells</u>			<u>Wells Dwnstrm</u>			<u>Rocky Reach</u>			<u>Rocky R. Tlwr</u>							
	<u>24 h</u>	<u>12 h</u>	#	<u>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>Avg</u>	<u>Avg</u>		<u>High</u>	<u>Avg</u>		<u>Avg</u>	<u>High</u>		<u>Avg</u>	<u>Avg</u>		<u>High</u>	<u>Avg</u>		<u>Avg</u>	<u>High</u>			
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	110	110	111	24	109	110	110	24	111	112	113	24	110	110	110	24	110	111	111	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
7/27	110	110	111	24	110	110	111	24	113	114	114	24	111	111	112	24	112	112	113	24
7/28	110	110	111	24	110	110	111	24	113	114	115	24	111	111	112	24	111	112	112	24
7/29	111	111	112	24	109	110	111	24	113	113	116	24	111	111	111	24	111	112	112	24
7/30	110	110	111	24	109	110	111	24	111	112	113	24	110	111	111	24	111	111	112	24
7/31	109	109	110	24	110	110	111	24	111	111	112	24	110	110	111	24	110	111	111	24
8/1	109	109	110	24	110	110	111	24	111	112	113	24	110	111	111	24	111	111	112	24
8/2	109	110	110	24	110	111	112	24	111	113	113	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>							
	<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>	#					
	<u>Avg</u>	<u>Avg</u>		<u>High</u>	<u>Avg</u>		<u>Avg</u>	<u>High</u>		<u>Avg</u>	<u>Avg</u>		<u>High</u>	<u>Avg</u>		<u>Avg</u>	<u>High</u>			
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	110	110	111	24	116	116	117	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	108	110	113	24	114	115	118	24	114	116	118	24
7/27	111	112	112	24	117	117	118	24	108	109	113	24	113	115	117	24	113	114	117	24
7/28	110	111	111	24	116	117	118	24	---	---	---	0	---	---	---	0	---	---	---	0
7/29	110	110	111	24	116	116	119	24	---	---	---	0	---	---	---	0	---	---	---	0
7/30	110	111	111	24	116	116	118	24	---	---	---	0	---	---	---	0	---	---	---	0
7/31	109	109	110	24	116	116	116	24	---	---	---	0	---	---	---	0	---	---	---	0
8/1	109	109	109	24	116	116	116	24	---	---	---	0	---	---	---	0	---	---	---	0
8/2	111	112	113	24	116	117	119	24	---	---	---	0	---	---	---	0	---	---	---	0

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

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

Date	<u>Priest R. Dnst</u>			<u>Pasco</u>			<u>Dworshak</u>			<u>Clrwtr-Peck</u>			<u>Anatone</u>							
	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>					
	<u>Avg</u>	<u>Avg</u>		<u>High</u>	<u>Avg</u>		<u>Avg</u>	<u>High</u>		<u>Avg</u>	<u>Avg</u>		<u>High</u>	<u>Avg</u>		<u>Avg</u>	<u>High</u>	<u>Avg</u>	<u>Avg</u>	<u>High</u>
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	102	104	105	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	110	111	112	24	99	99	100	24	102	104	105	24	102	103	105	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	115	117	118	24	110	111	112	24	99	100	100	24	102	104	105	24	102	103	105	24
7/27	115	116	117	24	111	112	113	24	99	100	100	24	---	---	---	0	102	103	105	24
7/28	---	---	---	0	110	111	112	24	99	100	100	24	---	---	---	0	102	103	105	24
7/29	---	---	---	0	110	111	112	24	99	100	100	24	102	103	105	24	101	103	104	24
7/30	---	---	---	0	109	109	110	24	99	100	100	24	102	103	104	24	101	103	104	24
7/31	---	---	---	0	108	109	110	24	99	99	100	24	101	103	104	24	101	103	104	24
8/1	---	---	---	0	109	110	111	24	99	100	100	24	101	103	104	24	102	104	105	24
8/2	---	---	---	0	110	111	112	24	100	101	103	24	102	103	104	24	102	103	105	24

Total Dissolved Gas Saturation Data at Snake River Sites

Date	<u>Clrwtr-Lewiston</u>			<u>Lower Granite</u>			<u>L. Granite Tlwr</u>			<u>Little Goose</u>			<u>L. Goose Tlwr</u>							
	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>					
	<u>Avg</u>	<u>Avg</u>		<u>High</u>	<u>Avg</u>		<u>Avg</u>	<u>High</u>		<u>Avg</u>	<u>Avg</u>		<u>High</u>	<u>Avg</u>		<u>Avg</u>	<u>High</u>	<u>Avg</u>	<u>Avg</u>	<u>High</u>
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	104	106	108	24	100	100	101	24	111	111	111	24	107	107	108	24	108	108	109	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
7/27	104	106	108	24	102	102	102	24	112	112	112	24	108	108	109	24	108	108	109	24
7/28	104	106	108	24	102	102	103	24	111	112	112	24	108	108	108	24	108	108	109	24
7/29	104	106	108	24	102	102	102	24	111	111	112	24	107	107	108	24	107	108	108	24
7/30	104	106	107	24	102	102	102	24	111	112	112	24	107	107	107	24	108	108	109	24
7/31	103	106	107	24	102	102	102	24	112	112	112	24	106	106	107	24	107	108	109	24
8/1	103	106	107	24	102	103	103	24	112	112	113	24	106	107	107	24	107	108	108	24
8/2	104	106	107	24	103	103	103	24	111	112	112	24	107	107	107	24	107	108	108	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>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>					
	<u>Avg</u>	<u>Avg</u>		<u>High</u>	<u>Avg</u>		<u>Avg</u>	<u>High</u>		<u>Avg</u>	<u>Avg</u>		<u>High</u>	<u>Avg</u>		<u>Avg</u>	<u>High</u>	<u>Avg</u>	<u>Avg</u>	<u>High</u>
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	105	106	106	24	112	112	115	24	109	109	110	24	111	111	112	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
7/27	106	106	106	24	112	113	114	24	110	110	111	24	111	112	114	24	---	---	---	0
7/28	106	106	106	24	113	114	115	24	110	110	110	24	112	113	115	24	---	---	---	0
7/29	106	106	107	24	113	114	115	24	110	110	111	24	111	111	112	24	---	---	---	0
7/30	106	106	106	24	113	114	114	24	110	110	110	24	112	113	114	24	---	---	---	0
7/31	105	106	106	24	112	113	113	24	109	110	110	24	111	112	112	24	---	---	---	0
8/1	105	105	105	24	116	117	118	24	109	109	109	24	111	112	114	24	---	---	---	0
8/2	105	105	105	24	114	114	116	24	109	109	110	24	113	114	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

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>24 h</u>		<u>12 h</u>		#	<u>24h</u>		<u>12h</u>		#	<u>24h</u>		<u>12h</u>		#
	Avg	Avg	High	hr		Avg	Avg	High	hr		Avg	Avg	High	hr		Avg	Avg	High	hr	
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	109	110	110	24	116	118	119	24	104	105	105	24	115	116	118	24	105	106	106	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
7/27	110	110	111	24	115	117	118	24	105	106	106	24	116	117	119	24	106	106	107	24
7/28	110	110	111	24	117	119	119	24	105	106	106	24	115	117	118	24	106	106	107	24
7/29	109	109	110	24	119	119	119	24	105	105	105	24	114	114	115	24	106	106	106	24
7/30	109	109	110	24	116	117	118	24	104	104	104	24	115	117	119	24	104	104	105	24
7/31	109	109	110	24	115	116	116	24	104	104	104	24	115	118	120	24	106	106	107	24
8/1	108	109	111	24	117	118	118	24	104	105	106	21	116	117	119	21	108	108	109	24
8/2	109	110	111	24	117	118	118	24	105	105	106	24	116	117	118	24	108	108	109	24

Total Dissolved Gas Saturation Data at Lower Columbia River Sites

Date	<u>The Dalles Dnst</u>				<u>Bonneville</u>				<u>Warrendale</u>				<u>Camas\Washougal</u>				<u>Cascade Island</u>			
	<u>24 h</u>		<u>12 h</u>		#	<u>24 h</u>		<u>12 h</u>		#	<u>24h</u>		<u>12h</u>		#	<u>24h</u>		<u>12h</u>		#
	Avg	Avg	High	hr		Avg	Avg	High	hr		Avg	Avg	High	hr		Avg	Avg	High	hr	
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	112	113	113	24	107	107	108	24	---	---	---	0	110	113	115	24	116	117	120	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
7/27	113	113	114	24	105	105	106	24	---	---	---	0	111	114	116	24	116	118	120	24
7/28	113	113	114	24	106	106	106	24	---	---	---	0	110	113	114	24	116	117	120	24
7/29	112	112	113	24	105	106	106	24	---	---	---	0	110	112	113	24	115	117	120	24
7/30	112	113	113	24	104	104	105	24	---	---	---	0	111	114	116	24	116	117	120	24
7/31	113	114	114	24	104	105	105	24	---	---	---	0	111	114	117	24	116	118	121	24
8/1	114	115	116	24	107	108	109	24	---	---	---	0	112	116	118	24	116	118	120	24
8/2	114	115	116	24	109	110	111	24	---	---	---	0	113	115	118	24	116	118	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											
Date	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)
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	*	---	---	---	0	0	0	0	---	0	---
07/28/2007	*	---	---	---	0	0	0	3	0	0	0
07/29/2007	*	---	---	---	0	0	0	0	---	0	---
07/30/2007	*	---	---	---	0	0	5	0	0	0	0
07/31/2007	*	---	---	---	0	0	0	2	---	0	---
08/01/2007	*	---	---	---	0	0	0	0	0	0	0
08/02/2007	*	---	---	---	0	0	0	0	---	0	---
08/03/2007	---	---	---	---	---	---	---	---	---	---	---
<hr/>											
Total:	0	0	0	0	2	0	5	6	0	0	0
# Days:	0	0	0	0	14	14	14	14	7	14	7
Average:	0	0	0	0	0	0	0	0	0	0	0
YTD	43,491	86,299	15,108	6,553	2,247,460	655,128	355,684	23,766	2,224,840	4,262,556	1,949,995

COMBINED SUBYEARLING CHINOOK											
Date	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)
07/20/2007	---	---	---	---	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	*	---	---	---	500	641	73	361	---	39,474	---
07/28/2007	*	---	---	---	716	506	103	326	75,471	0	15,333
07/29/2007	*	---	---	---	275	376	68	193	---	0	---
07/30/2007	*	---	---	---	348	605	53	181	39,269	0	7,252
07/31/2007	*	---	---	---	222	850	23	198	---	51,558	---
08/01/2007	*	---	---	---	306	429	22	210	29,736	0	32,911
08/02/2007	*	---	---	---	261	522	64	228	---	0	---
08/03/2007	---	---	---	---	---	---	---	---	---	---	---
<hr/>											
Total:	0	0	0	0	6,749	8,024	1,138	4,623	381,121	144,555	135,157
# Days:	0	0	0	0	14	14	14	14	7	14	7
Average:	0	0	0	0	482	573	81	330	54,446	10,325	19,308
YTD	0	83	90	255	323,774	433,762	77,817	13,600	4,403,054	2,917,792	3,991,342

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)
07/20/2007	---	---	---	---	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	*	---	---	---	0	9	0	1	---	0	---
07/28/2007	*	---	---	---	0	6	0	0	0	0	0
07/29/2007	*	---	---	---	0	12	0	1	---	0	---
07/30/2007	*	---	---	---	2	19	5	0	0	0	0
07/31/2007	*	---	---	---	0	6	0	2	---	0	---
08/01/2007	*	---	---	---	2	9	5	0	0	0	0
08/02/2007	*	---	---	---	2	11	0	1	---	0	---
08/03/2007		---	---	---	---	---	---	---	---	---	---
<hr/>											
Total:	0	0	0	0	10	371	32	31	86	0	0
# Days:	0	0	0	0	14	14	14	14	7	14	7
Average:	0	0	0	0	1	27	2	2	12	0	0
YTD	0	0	0	57	50,699	55,760	18,022	64,418	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)
07/20/2007		---	---	---	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	*	---	---	---	7	2,056	27	0	---	0	---
07/28/2007	*	---	---	---	5	1,294	33	0	0	0	0
07/29/2007	*	---	---	---	2	556	32	0	---	0	---
07/30/2007	*	---	---	---	7	351	35	0	0	0	0
07/31/2007	*	---	---	---	0	196	23	0	---	0	---
08/01/2007	*	---	---	---	5	258	38	2	0	0	0
08/02/2007	*	---	---	---	5	605	69	0	---	0	---
08/03/2007		---	---	---	---	---	---	---	---	---	---
<hr/>											
Total:	0	0	0	0	42	11,137	404	10	181	144	0
# Days:	0	0	0	0	14	14	14	14	7	14	7
Average:	0	0	0	0	3	796	29	1	26	10	0
YTD	3,734	46,002	1,940	7,792	1,859,272	1,868,064	740,524	18,537	376,417	960,412	267,109

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)	
07/20/2007	---	---	---	---	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	*	---	---	---	0	0	0	0	---	0	---	
07/28/2007	*	---	---	---	0	0	0	0	0	0	0	
07/29/2007	*	---	---	---	0	0	0	0	---	0	---	
07/30/2007	*	---	---	---	0	0	0	0	0	0	0	
07/31/2007	*	---	---	---	0	0	0	0	---	0	---	
08/01/2007	*	---	---	---	0	0	0	2	0	0	0	
08/02/2007	*	---	---	---	0	0	0	0	---	0	---	
08/03/2007		---	---	---	---	---	---	---	---	---	---	
<hr/>												
Total:		0	0	0	0	12	0	5	0	0	0	
# Days:		0	0	0	14	14	14	14	7	14	7	
Average:		0	0	0	0	1	0	0	0	0	0	
YTD		27	0	0	413	20,682	17,121	5,735	16,427	513,701	790,330	171,307

* See sampling comments <http://www.fpc.org/currentDaily/smpcomments.htm>

Smolt indices, clipped & unclipped or combined, are presented in the following order: yearling chinook (chinook 1's,) subyearling chinook (chinook 0's), steelhead, coho, and sockeye. Two classes of fish counts are shown in these tables: collection counts, which account for sample rates but are not adjusted for flow; and passage indices, which are collection counts divided by the proportion of water passing through the sampled powerhouse. Passage indices are not population estimates, but are used to adjust collection counts for daily fluctuations in the site's or project's operations. The classes of counts presented in the report are defined below for each site. Most samples occur over a 24-hr period that spans two calendar days. In this report, the date shown corresponds with the sample end date.

Definitions for Smolt Index Counts

- WTB (Collection) = Salmon River Trap at Whitebird : Collection Counts
- IMN (Collection) = Imnaha River Trap : Collection Counts
- GRN (Collection) = Grande Ronde River Trap : Collection Counts
- LEW (Collection) = Snake River Trap at Lewiston : Collection Counts
- LGR (Index) = Lower Granite Dam Bypass Collection System : Passage Index Counts
Passage Index = Collection Counts / {Powerhouse Flow / (Powerhouse Flow + Spill)}
- LGS (Index) = Little Goose Bypass Collection System : Passage Index Counts
Passage Index = Collection Counts / {Powerhouse Flow / (Powerhouse Flow + Spill)}
- LMN (Index) = Lower Monumental Dam Bypass Collection System : Passage Index Counts
Passage Index = Collection Counts / {Powerhouse Flow / (Powerhouse Flow + Spill)}
- RIS (Index) = Rock Island Dam Second Powerhouse Bypass Trap : Passage Index Counts
Passage Index = Collection Counts / {Powerhouse 2 Flow / (Powerhouse 1 & 2 Flow + Spill)}
- MCN (Index) = McNary Dam Bypass Collection System : Passage Index Counts
Passage Index = Collection Counts / {Powerhouse Flow / (Powerhouse Flow + Spill)}
- JDA (Index) = John Day Dam Bypass Collection System : Passage Index Counts
Passage Index = Collection Counts / {Powerhouse Flow / (Powerhouse Flow + Spill)}
- BO2 (Index) = Bonneville Dam Second Powerhouse Bypass Collection System : Passage Index Counts
Passage Index = Collection Counts / {Powerhouse 2 Flow / (Powerhouse 1 & 2 Flow + Spill)}

JDA and BO2 data collected for the FPC by Pacific States Marine Fisheries Commission.
 RIS data collected for the FPC by Chelan Co. PUD/Washington Dept. of Fish and Wildlife.
 LGR, LMN, and MCN data collected for the FPC by Washington Dept. of Fish and Wildlife.
 LGS and GRN data collected for the FPC by Oregon Dept. of Fish and Wildlife.
 IMN data collected for the FPC by the Nez Perce Tribe.

Two Week Transportation Summary

Source: Fish Passage Center

Updated:

8/3/07 9:47 AM

		07/20/07 TO 08/03/07					
		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	2,895	1	5		18	2,919
	Sum of NumberBarged	2,808	1	5		17	2,831
	Sum of NumberBypassed	42	0	0		0	42
	Sum of Numbertrucked	0	0	0		0	0
	Sum of SampleMorts	38	0	0		1	39
	Sum of FacilityMorts	7	0	0		0	7
	Sum of ResearchMorts	0	0	0		0	0
	Sum of TotalProjectMorts	45	0	0		1	46
LGS	Sum of NumberCollected	5,567			257	8	7,723
	Sum of NumberBarged	5,167			248	5	7,690
	Sum of NumberBypassed	332			0	0	332
	Sum of Numbertrucked	0			0	0	0
	Sum of SampleMorts	33			9	0	11
	Sum of FacilityMorts	35			0	3	22
	Sum of ResearchMorts	0			0	0	0
	Sum of TotalProjectMorts	68			9	3	33
LMN	Sum of NumberCollected	528	2	14		178	722
	Sum of NumberBarged	504	2	14		166	686
	Sum of NumberBypassed	6	0	0		8	14
	Sum of Numbertrucked	0	0	0		0	0
	Sum of SampleMorts	1	0	0		2	3
	Sum of FacilityMorts	17	0	0		2	19
	Sum of ResearchMorts	0	0	0		0	0
	Sum of TotalProjectMorts	18	0	0		4	22
MCN	Sum of NumberCollected	184,226			50	105	184,381
	Sum of NumberBarged	0			0	0	0
	Sum of NumberBypassed	183,969			50	105	184,124
	Sum of Numbertrucked	0			0	0	0
	Sum of SampleMorts	126			0	0	126
	Sum of FacilityMorts	127			0	0	127
	Sum of ResearchMorts	4			0	0	4
	Sum of TotalProjectMorts	257			0	0	257
Total Sum of NumberCollected		193,216	3	326	8	8,024	201,577
Total Sum of NumberBarged		8,479	3	267	5	7,873	16,627
Total Sum of NumberBypassed		184,349	0	50	0	113	184,512
Total Sum of Numbertrucked		0	0	0	0	0	0
Total Sum of SampleMorts		198	0	9	0	14	221
Total Sum of FacilityMorts		186	0	0	3	24	213
Total Sum of ResearchMorts		4	0	0	0	0	4
Total Sum of TotalProjectMorts		388	0	9	3	38	438

YTD Transportation Summary

Source: Fish Passage Center

Updated:

8/3/07 9:47 AM

TO: 08/03/07

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	188,270	1,578,085	38,270	15,920	1,367,767	3,188,312
	Sum of NumberBarged	143,768	1,125,031	36,818	15,540	1,185,507	2,506,664
	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	235	57	1	2	32	327
	Sum of FacilityMorts	1,349	1,008	19	22	462	2,860
	Sum of ResearchMorts	1,227	880	0	0	0	2,107
	Sum of TotalProjectMorts	2,811	1,945	20	24	494	5,294
LGS	Sum of NumberCollected	301,551	463,092	39,962	12,005	1,318,777	2,135,387
	Sum of NumberBarged	296,911	398,139	39,397	11,553	1,196,167	1,942,167
	Sum of NumberBypassed	4,199	64,720	541	433	121,828	191,721
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	89	31	19	3	51	193
	Sum of FacilityMorts	241	197	5	16	731	1,190
	Sum of ResearchMorts	110	7	0	0	0	117
	Sum of TotalProjectMorts	440	235	24	19	782	1,500
LMN	Sum of NumberCollected	42,266	279,225	13,524	4,155	574,139	913,309
	Sum of NumberBarged	37,981	270,566	13,501	4,130	562,162	888,340
	Sum of NumberBypassed	4,092	8,183	21	2	11,470	23,768
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	82	30	0	0	80	192
	Sum of FacilityMorts	111	393	2	23	444	973
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	193	423	2	23	524	1,165
MCN	Sum of NumberCollected	2,221,055	1,316,837	58,662	304,436	222,727	4,123,717
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	2,219,154	1,315,864	58,647	303,929	222,328	4,119,922
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	584	141	4	58	33	820
	Sum of FacilityMorts	1,077	819	11	447	366	2,720
	Sum of ResearchMorts	241	13	0	2	0	256
	Sum of TotalProjectMorts	1,902	973	15	507	399	3,796
Total Sum of NumberCollected		2,753,142	3,637,239	150,418	336,516	3,483,410	10,360,725
Total Sum of NumberBarged		478,660	1,793,736	89,716	31,223	2,943,836	5,337,171
Total Sum of NumberBypassed		2,267,552	1,839,876	60,641	304,720	537,360	5,010,149
Total Sum of NumberTrucked		1,584	0	0	0	32	1,616
Total Sum of SampleMorts		990	259	24	63	196	1,532
Total Sum of FacilityMorts		2,778	2,417	37	508	2,003	7,743
Total Sum of ResearchMorts		1,578	900	0	2	0	2,480
Total Sum of TotalProjectMorts		5,346	3,576	61	573	2,199	11,755

Cumulative Adult Passage at Mainstem Dams Through: 08/02

DAM	EndDate	Spring Chinook						Summer Chinook						Fall Chinook					
		2007		2006		10-Yr Avg.		2007		2006		10-Yr Avg.		2007		2006		10-Yr Avg.	
		Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack
BON	08/01	66624	16606	96456	2908	156175	8234	47882	13686	97519	4355	69317	7971	388	107	588	53	419	71
TDA	08/01	52795	15406	61827	2176	108412	6003	40178	11267	80413	3542	59210	5748	0	0	0	0	0	0
JDA	08/01	43379	13663	50313	2093	90974	4767	35663	11425	72421	3964	54699	5652	0	0	0	0	0	0
MCN	08/01	38852	12252	45887	2475	83968	5029	31688	9060	60483	3165	52177	5120	0	0	0	0	0	0
IHR	08/01	28047	7308	25434	875	56277	3172	7715	2517	8343	530	11445	1850	0	0	0	0	0	0
LMN	08/01	26963	6934	23589	548	53700	2904	11396	1454	9540	488	11030	1482	0	0	0	0	0	0
LGS	07/31	23953	7227	20836	733	51418	2974	7452	2800	7800	564	9462	1758	0	0	0	0	0	0
LGR	08/01	22481	8971	22530	973	51737	3293	7277	3246	6691	613	9511	1927	0	0	0	0	0	0
PRD	07/30	6708	489	8535	81	17371	512	26785	836	52847	333	43883	1627	0	0	0	0	0	0
RIS	07/31	5572	2066	9643	483	14040	762	24455	5015	56063	1478	40139	3681	0	0	0	0	0	0
RRH	07/31	2424	920	5376	274	5343	306	17436	3930	35117	1198	27750	2308	0	0	0	0	0	0
WEL	08/01	2040	752	4159	217	3869	205	9790	2170	18559	777	18642	814	0	0	0	0	0	0
WFA	07/27	22855	256	36664	186	7141	102	0	0	0	0	0	0	0	0	0	0	0	0

DAM	Coho						Sockeye			Steelhead			
	2007		2006		10-Yr Avg.		10-Yr Avg.			10-Yr			Wild
	Adult	Jack	Adult	Jack	Adult	Jack	2007	2006	Avg.	2007	2006	Avg.	2007
BON	6	1	1	0	1	0	24287	36949	60717	74589	60046	103454	27204
TDA	0	0	1	0	0	0	19033	29928	50706	29656	19690	44910	11328
JDA	2	0	0	0	1	0	24103	35249	55076	21914	20979	33486	7830
MCN	0	0	0	0	0	0	18103	29164	46868	17642	12885	23058	5721
IHR	0	0	0	0	0	0	55	38	30	8133	6105	11009	1418
LMN	0	0	0	0	0	0	42	12	31	9140	6877	9584	2049
LGS	0	0	0	0	0	0	34	19	34	4702	3796	6016	1166
LGR	0	0	0	0	0	0	53	14	36	12400	8432	9822	2791
PRD	0	1	0	0	3	0	24317	26604	57478	1221	1064	2079	0
RIS	0	0	0	0	1	0	24709	34633	52903	912	776	1529	451
RRH	0	0	0	0	1	0	20159	24892	36593	718	564	1028	280
WEL	0	0	0	0	0	0	20707	20693	35428	317	195	490	170
WFA	2	0	0	0	0	0	0	0	0	17977	24375	4247	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: 08/03/07

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