



Fish Passage Center Weekly Report #07 - 19

July 13, 2007

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Summary of Events:

Water Supply: Precipitation throughout the Columbia Basin has varied between 0% and 15% of average at individual sub-basins over the first portion of July. Precipitation above The Dalles has been 3% of average over July. Over the entire water year, precipitation has varied between 73% and 110% 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 1-9		Water Year 2007 October 1, 2006 to July 9, 2007	
	Observed (inches)	% Average	Observed (inches)	% Average
	Columbia Above Coulee	0.01	1	22.01
Snake River Above Ice Harbor	0.02	8	12.07	79
Columbia Above The Dalles	0.01	3	19.59	98
Kootenai	0.00	0	23.66	110
Clark Fork	0.00	1	14.72	101
Flathead	0.00	0	18.76	97
Pend Oreille/Spokane	0.00	1	25.13	91
Central Washington	0.00	0	7.41	92
Snake River Plain	0.01	3	7.11	73
Salmon/Boise/ Payette	0.03	15	14.07	79
Clearwater	0.00	0	25.64	94
SW Washington Cascades/Cowlitz	0.00	0	64.52	98
Willamette Valley	0.00	0	56.71	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 1289.4 feet (7-12-07) and refilled 1.7 feet last week. Outflows at Grand Coulee ranged between 83.0 and 146.8 Kcfs last week.

Dworshak is currently at an elevation of 1588.3 feet (7-12-07) and drafted 6.8 feet last week. Outflows at Dworshak have been approximately 11.9 Kcfs over the last week.

The Libby Reservoir is currently at elevation 2453.7 feet (7-12-07) and refilled 1.5 feet last week. Outflows at Libby are currently at 17.3 Kcfs.

Hungry Horse is currently at an elevation of 3557.5 feet (7-12-07) and drafted 1.2 feet last week. Outflows at Hungry Horse are currently 4.4 Kcfs.

The Brownlee Reservoir was at an elevation of 2065.2 feet on July 12th, 2007, drafting 4.5 feet last week. Outflows at Brownlee Dam have been 13.2 to 16.1 Kcfs over the last week.

The Spring Biological Opinion flow period began on April 3rd in the lower Snake River (Lower Granite) and on April 10th in the mid (Priest Rapids) and lower (McNary) Columbia River. According to the April Final Water Supply Forecast, the flow objectives this spring were 85 Kcfs at Lower Granite, 237 Kcfs at McNary, and 135 Kcfs at Priest Rapids. The Spring Biological Opinion flow period ended on June 30th at both McNary and Priest Rapids Dams. Flows at McNary Dam averaged 239.2 Kcfs over the spring season and flows at Priest Rapids averaged 168.6 Kcfs, both above their flow targets. The summer Biological Opinion flow at McNary Dam is 200 Kcfs this year. Over the last week, flows were 181.3 Kcfs at McNary.

The spring Biological Opinion flow period at Lower Granite Dam ended on June 20th, 2007. Flows at Lower Granite Dam averaged 61.2 Kcfs over the spring season, well below the 85 Kcfs flow target. 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 35.0 Kcfs over the summer season to date and 36.2 Kcfs last week.

Smolt Monitoring: Subyearling Chinook now 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 were up substantially again this week.

At Lower Granite Dam, there was a decrease in the average subyearling passage index, with the average this week at 3,500 per day compared to 4,200 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 numbers of all spring migrants have continued to decrease, while the subyearling index was up this past week, averaging 280 per day this week compared to 180 per day last week.

In the Lower Columbia, at McNary Dam, numbers of subyearling Chinook were high again this week, with the index averaging 400,000 this week compared to 232,000 last week. The latest index calculated for passage on July 12 was over 500,000, representing the highest passage number this season for subyearlings at McNary. While at John Day and Bonneville dams, the weekly average subyearling index rose to reflect the increased passage seen at McNary Dam the past two weeks. The index at John Day Dam averaged 130,000 compared to 102,000 last week. At Bonneville Dam the index averaged 88,000 this week compared to 50,000 per day 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 spring spill at the lower Columbia projects began on April 10, 2007 and ended on June 30th. 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. Spill is 85-87 Kcfs during daytime hours and gas cap spill at night, which will be implemented until July 15. After July 15 the project will revert 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 110 Kcfs since TDG at the Camas/Washougal monitor has not exceeded the 115% TDG waiver for several days.

Total dissolved gas waivers were not exceeded at the federal hydroprojects throughout the past week. The Lower Monumental Dam tailrace monitor was providing TDG measurements in excess of 130% July 9 and 10, but this was due to a faulty gauge which has been repaired. Gas bubble trauma (GBT) monitoring continued this week at Little Goose, Lower Monumental, McNary and Bonneville dams. Approximately 12.7% of the fish examined at Little Goose Dam on July 10 showed signs of GBT. Again, the steelhead in the sample showed very high incidence of GBT; of the 12 steelhead examined 8 showed signs, while of the 90 subyearling Chinook examined, 5 showed fin signs. GBT monitoring at the other projects revealed <3% signs of GBT in the fish examined. Detailed data regarding each species examined for GBT can be found at the following link on the FPC website: http://www.fpc.org/smolt/gbtqueries/GBTwebsum_currentyear_query.html The detailed breakdown by species has been added in 2007 due to requests by fisheries managers seeking information about the high incidence of signs in late season steelhead compared to migrant subyearling Chinook. The subyearling appear to be showing much lower incidence of signs.

Adult Fish Passage:

Daily passage numbers at Bonneville Dam have ranged between 505 and 899 adult summer Chinook in the last week. The 2007 summer Chinook count of 40,355 is about 69.4 percent of the 10-year average count and 46.9 percent of the 2006 count. The summer Chinook jack count of 11,218 at Bonneville Dam is presently 3.45 times greater than observed in 2006, and 1.84 times greater than the 10-year average count to date. The adult summer Chinook count total at The Dalles Dam was 32,933 through July 12th, about 81.6 percent of the Bonneville passage total to date. A total of 25,012 summer Chinook have passed McNary Dam. The adult summer Chinook count total at Lower Granite Dam in the Snake River, was 5,930 through July 12th. The 2007 adult summer Chinook count at Rock Island Dam in the upper Columbia River was 14,452 with daily totals ranging from 598 to 1,190.

On July 5th, fish counting operations at the McNary Oregon Ladder were ceased at 3pm due to excessive debris in the fish ladder exit. The picked leads to the count window were raised due to concerns that the debris from cleaning the exits would block the leads. Up to six hours of counting were lost due to this problem. The leads were lowered on July 6th and fish counting was resumed.

As of July 12th, 21,673 steelhead had passed Bonneville Dam which was 669 more than the 2006 count. The 2007 Bonneville steelhead count was about 64.7 percent of the 10-year average. The daily steelhead counts at The Dalles Dam ranged between 524 and 797 for the week with the cumulative count of 9,351. About 43.1 percent of the steelhead counted at Bonneville have passed The Dalles Dam. The majority of the 6,464 steelhead counted at McNary Dam have moved up into the Snake River with the cumulative count at Ice Harbor now at 4,371 for the season. The cumulative count at Priest Rapids was at 200 for the season.

As of July 12th, 2,554,010 adult Shad were counted at Bonneville Dam this season with daily counts ranging from 2,640 to 7,185. Adult sockeye counts increased at Bonneville with the count through July 12th at 23,136. This year's sockeye

count is about 65.2 percent of the 2006 count and 40.0 percent of the 10-year average count. About 17,480 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 41.3 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 46 sockeye have been counted at Ice Harbor Dam in the Snake River.

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.

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
06/29/07	130.9	0.2	132.2	0.0	146.6	9.3	145.7	12.7	150.5	28.9	156.4	24.4	160.2	22.1
06/30/07	108.1	0.1	112.3	0.0	118.4	8.1	115.8	9.9	123.2	23.1	142.9	9.3	134.9	22.2
07/01/07	99.4	0.2	100.5	0.0	112.8	7.9	112.7	8.4	116.7	19.1	108.1	9.5	104.5	23.7
07/02/07	100.5	0.2	98.7	0.0	119.9	8.1	123.1	13.0	130.5	28.3	137.9	9.7	136.7	21.3
07/03/07	127.3	0.1	118.4	0.0	115.7	8.2	106.8	13.3	109.4	30.0	110.5	9.0	111.8	21.4
07/04/07	114.7	0.2	118.1	0.0	121.9	8.2	122.6	11.4	127.8	25.7	123.8	10.2	115.4	23.9
07/05/07	131.7	0.1	138.3	0.0	146.8	16.0	141.9	17.5	146.6	27.8	149.8	22.7	144.2	26.1
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

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

Date	Dworshak		Brownlee Canyon		Hells Granite		Lower Granite		Little Goose		Lower Monumental		Ice Harbor	
	Flow	Spill	Inflow	Outflow	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill
06/29/07	4.3	0.0	10.5	16.8	36.0	18.3	37.0	11.0	35.8	16.6	36.8	17.7		
06/30/07	4.3	0.0	10.3	15.0	36.7	18.2	33.1	10.0	33.6	17.1	32.8	15.2		
07/01/07	4.3	0.0	10.0	11.9	33.3	18.0	35.3	10.7	33.7	16.9	33.3	23.0		
07/02/07	6.1	0.0	9.2	12.1	31.2	18.0	29.2	8.7	29.6	17.1	30.1	20.2		
07/03/07	8.8	0.0	8.9	10.8	31.5	18.0	36.2	10.8	33.5	17.0	33.7	23.7		
07/04/07	9.5	0.0	9.0	8.9	32.7	17.9	34.9	10.5	31.5	17.1	30.1	20.0		
07/05/07	10.5	1.0	9.6	12.9	33.0	17.9	32.5	9.6	32.6	16.7	32.9	16.2		
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	---	---	34.7	17.7	33.0	10.1	34.6	17.1	34.2	15.2		

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		
06/29/07	183.8	72.7	169.9	40.0	163.0	65.3	172.5	91.4	0.0	69.5
06/30/07	185.7	104.1	182.0	42.7	176.3	71.3	205.8	89.4	0.0	105.0
07/01/07	156.1	93.8	143.8	43.8	143.1	57.5	161.9	89.2	0.0	61.2
07/02/07	168.8	101.1	135.7	41.2	131.1	52.4	131.8	89.0	0.0	31.3
07/03/07	171.9	103.0	168.9	50.4	171.2	68.4	172.6	88.4	0.0	72.6
07/04/07	155.1	69.6	148.9	44.3	144.3	57.8	149.8	86.7	0.0	51.6
07/05/07	172.5	69.1	162.3	48.7	161.9	65.2	168.1	86.8	0.0	69.7
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

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											
	07/03/07	Chinook + Steelhead	104	3	3	2.88%	0.00%	3	0	0	0
	07/10/07	Chinook + Steelhead	102	13	13	12.74%	0.00%	11	2	0	0
McNary Dam											
	07/05/07	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	07/09/07	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
Bonneville Dam											
	07/03/07	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	07/07/07	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	07/10/07	Chinook + Steelhead	100	1	1	1.00%	0.00%	1	0	0	0
Rock Island Dam											
	07/04/07	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	07/05/07	Chinook + Steelhead	100	2	2	2.00%	0.00%	1	1	0	0
	07/09/07	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	07/12/07	Chinook + Steelhead	92	1	1	1.08%	0.00%	1	0	0	0

HATCHERY RELEASE LAST TWO WEEKS

Hatchery Release Summary

From: 6/29/2007 **to** 07/12/07

Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
Nez Perce Tribe	Clearwater Hatchery	CHO	SP	2008	304,000	07-01-07	07-01-07	Selway River	Clearwater River M F
Total Nez Perce Tribe					304,000				
Washington Dept. of Fish and Wildlife	Turtle Rock Hatchery	CHO	SU	2007	410,000	07-02-07	07-06-07	Turtle Rock Hatchery	Mid-Columbia River
Washington Dept. of Fish and Wildlife	Turtle Rock Hatchery	CHO	SU	2007	450,000	07-02-07	07-06-07	Turtle Rock Hatchery	Mid-Columbia River
Total Washington Dept. Of Fish and Wildlife					860,000				
Grand Total					1,164,000				

HATCHERY RELEASE NEXT TWO WEEKS

Hatchery Release Summary

From: 7/13/2007 **to** 7/26/2007

Agency Hatchery Species Race MigYr NumRel RelStart RelEnd RelSite RelRiver

There are no releases scheduled for the next 2 weeks

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

Total Dissolved Gas Saturation Data at Upper Columbia River Sites

Date	<u>Hungry H. Dnst</u>			<u>Boundary</u>			<u>Grand Coulee</u>			<u>Grand C. Tlwr</u>			<u>Chief Joseph</u>			#				
	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>					
	<u>Avg</u>	<u>Avg</u>		<u>Avg</u>	<u>Avg</u>		<u>Avg</u>	<u>Avg</u>		<u>Avg</u>	<u>Avg</u>		<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>		
6/29	106	106	107	24	114	115	115	24	113	113	113	24	110	110	111	24	110	111	111	24
6/30	105	106	106	24	112	113	115	24	112	113	113	24	110	111	112	24	110	111	111	24
7/1	106	106	107	24	112	113	116	24	113	113	113	24	111	111	112	24	110	111	112	24
7/2	106	106	107	24	114	115	115	24	113	113	113	24	110	111	112	24	111	112	112	24
7/3	106	106	106	20	114	115	115	24	112	112	113	24	111	111	114	24	111	111	112	24
7/4	---	---	---	0	115	115	116	24	112	113	113	24	110	111	111	24	111	112	112	24
7/5	---	---	---	0	115	116	117	24	112	113	113	24	110	111	112	24	112	112	113	24
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

Total Dissolved Gas Saturation Data at Mid Columbia River Sites

Date	<u>Chief J. Dnst</u>			<u>Wells</u>			<u>Wells Dwnstrm</u>			<u>Rocky Reach</u>			<u>Rocky R. Tlwr</u>			#				
	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>					
	<u>Avg</u>	<u>Avg</u>		<u>Avg</u>	<u>Avg</u>		<u>Avg</u>	<u>Avg</u>		<u>Avg</u>	<u>Avg</u>		<u>Avg</u>	<u>Avg</u>			<u>Avg</u>			
6/29	110	111	112	24	109	110	111	24	111	112	112	24	111	111	112	24	112	112	112	24
6/30	109	110	110	24	109	110	111	24	110	111	112	24	111	111	111	24	112	112	112	24
7/1	110	111	112	24	110	111	113	24	111	112	113	24	111	111	111	24	112	112	112	24
7/2	111	112	112	24	110	111	111	24	112	112	113	24	111	111	111	24	111	111	112	24
7/3	111	111	112	24	110	111	112	24	112	113	113	24	110	110	111	24	111	111	112	24
7/4	111	111	112	24	112	112	113	24	113	114	115	24	111	111	112	24	111	112	112	24
7/5	112	112	113	24	112	113	114	24	115	117	119	24	112	113	114	24	113	114	116	24
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

Total Dissolved Gas Saturation at Mid Columbia River Sites

Date	<u>Rock Island</u>			<u>Rock I. Tlwr</u>			<u>Wanapum</u>			<u>Wanapum Tlwr</u>			<u>Priest Rapids</u>			#				
	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>					
	<u>Avg</u>	<u>Avg</u>		<u>Avg</u>	<u>Avg</u>		<u>Avg</u>	<u>Avg</u>		<u>Avg</u>	<u>Avg</u>		<u>Avg</u>	<u>Avg</u>			<u>Avg</u>			
6/29	112	112	113	24	116	116	117	24	109	110	111	24	115	117	118	24	112	113	116	24
6/30	112	113	113	24	116	116	116	24	108	110	111	24	113	114	116	24	112	113	114	24
7/1	112	112	113	24	116	116	116	24	111	112	113	24	116	117	121	19	113	114	115	24
7/2	112	112	112	24	116	117	117	24	109	110	112	24	114	116	118	24	113	114	117	18
7/3	112	112	112	24	116	117	117	24	109	110	114	24	114	117	121	24	113	115	116	24
7/4	111	112	113	24	117	118	120	24	112	114	117	24	115	117	122	24	114	115	117	24
7/5	112	113	114	24	117	118	119	24	112	114	118	24	117	118	120	24	116	117	120	24
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	---	---	---	0	---	---	---	0	---	---	---	0
7/12	112	112	113	24	117	118	118	24	---	---	---	0	---	---	---	0	---	---	---	0

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

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

Date	<u>Priest R. Dnst</u>			<u>Pasco</u>			<u>Dworshak</u>			<u>Clrwtr-Peck</u>			<u>Anatone</u>			#				
	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>					
	<u>Avg</u>	<u>Avg</u>		<u>hr</u>	<u>Avg</u>		<u>Avg</u>	<u>hr</u>		<u>Avg</u>	<u>Avg</u>		<u>hr</u>	<u>Avg</u>			<u>Avg</u>	<u>hr</u>	<u>Avg</u>	<u>Avg</u>
6/29	114	115	117	24	109	109	110	24	100	101	101	24	101	102	103	24	102	103	104	24
6/30	114	115	116	24	109	110	111	24	99	100	100	24	100	102	103	24	102	104	105	24
7/1	115	116	116	24	110	111	111	24	100	101	101	24	100	101	103	24	103	104	105	24
7/2	115	115	117	8	109	110	111	24	100	100	102	24	100	103	104	24	102	103	105	24
7/3	115	115	116	11	110	111	112	24	99	99	100	24	102	103	104	24	102	104	106	24
7/4	115	116	118	24	111	111	112	24	99	99	99	24	102	103	104	24	103	104	106	24
7/5	117	118	119	24	111	113	113	24	101	103	105	24	103	105	107	24	103	105	106	24
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	---	---	---	0	111	112	113	24	104	104	105	24	105	107	108	24	103	105	106	24
7/12	---	---	---	0	111	111	112	24	104	104	105	24	105	106	107	24	103	104	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>High</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>					
	<u>Avg</u>	<u>Avg</u>		<u>hr</u>	<u>Avg</u>		<u>Avg</u>	<u>hr</u>		<u>Avg</u>	<u>Avg</u>		<u>hr</u>	<u>Avg</u>			<u>Avg</u>	<u>hr</u>	<u>Avg</u>	<u>Avg</u>
6/29	102	104	106	24	100	100	100	24	114	115	116	24	107	107	108	24	108	108	108	24
6/30	103	105	107	24	101	102	102	24	112	113	115	24	108	109	109	24	107	108	109	24
7/1	103	106	107	24	102	102	102	24	112	112	113	24	110	110	110	24	107	108	108	24
7/2	103	105	106	24	101	101	102	24	114	115	116	24	109	109	110	24	107	107	108	24
7/3	103	105	107	24	100	100	101	24	113	114	115	24	109	110	111	24	108	110	114	24
7/4	104	106	107	24	101	102	102	24	112	112	113	24	111	111	112	24	108	109	109	24
7/5	104	106	108	24	102	103	104	24	112	112	112	24	110	110	111	23	109	109	110	23
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

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>High</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>					
	<u>Avg</u>	<u>Avg</u>		<u>hr</u>	<u>Avg</u>		<u>Avg</u>	<u>hr</u>		<u>Avg</u>	<u>Avg</u>		<u>hr</u>	<u>Avg</u>			<u>Avg</u>	<u>hr</u>	<u>Avg</u>	<u>Avg</u>
6/29	107	107	108	24	113	113	114	24	111	111	112	24	111	113	114	24	---	---	---	0
6/30	107	107	107	24	113	114	114	24	112	112	113	24	111	111	112	24	---	---	---	0
7/1	107	107	107	24	113	113	114	24	112	112	112	24	113	114	115	24	---	---	---	0
7/2	105	105	106	24	113	113	114	24	110	111	112	24	113	114	114	24	---	---	---	0
7/3	105	106	107	24	113	114	114	24	110	110	111	24	113	114	114	24	---	---	---	0
7/4	107	107	107	24	114	114	115	24	111	111	111	24	113	114	114	24	---	---	---	0
7/5	107	108	108	24	113	114	115	24	111	111	112	24	112	112	113	24	---	---	---	0
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

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

Total Dissolved Gas Saturation Data at Lower Columbia River Sites

Date	<u>McNary-Wash</u>			<u>McNary Tlwr</u>			<u>John Day</u>			<u>John Day Tlwr</u>			<u>The Dalles</u>							
	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>#</u>					
	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	AVG	High	hr				
6/29	110	111	111	24	116	118	118	24	106	106	107	24	111	115	118	24	109	110	112	24
6/30	109	109	110	24	116	117	118	24	106	107	108	24	112	117	118	24	109	111	115	24
7/1	110	110	111	24	113	114	114	24	108	109	109	24	114	114	115	24	109	111	114	24
7/2	109	109	109	24	115	116	117	24	108	108	108	24	114	114	115	24	109	110	112	24
7/3	109	110	110	24	114	115	116	24	108	108	109	24	115	115	115	24	108	109	110	24
7/4	109	110	110	24	116	118	119	24	108	109	110	24	114	115	115	24	110	111	111	24
7/5	111	112	114	24	117	118	119	24	109	109	110	24	114	116	118	24	110	111	111	24
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

Total Dissolved Gas Saturation Data at Lower Columbia River Sites

Date	<u>The Dalles Dnst</u>			<u>Bonneville</u>			<u>Warrendale</u>			<u>Camas/Washougal</u>			<u>Cascade Island</u>							
	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>#</u>					
	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr				
6/29	114	114	115	24	110	110	111	24	---	---	---	0	113	114	116	24	115	116	117	24
6/30	114	114	116	24	110	111	111	24	---	---	---	0	113	115	116	24	116	116	117	24
7/1	114	115	116	24	111	112	112	24	---	---	---	0	113	115	116	24	115	116	117	24
7/2	113	113	114	24	110	110	111	24	---	---	---	0	114	116	117	24	115	116	117	24
7/3	113	114	114	24	110	110	110	24	---	---	---	0	116	117	118	24	115	116	117	24
7/4	114	114	115	24	111	111	112	24	---	---	---	0	113	115	116	24	115	115	116	24
7/5	114	115	115	24	110	110	111	24	---	---	---	0	114	115	116	24	115	115	116	24
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

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)	
06/29/2007	*	---	---	---	---	9	0	0	0	---	331	83
06/30/2007		---	---	---	---	16	1	4	2	0	133	105
07/01/2007	*	---	---	---	---	0	0	0	11	---	179	133
07/02/2007		---	---	---	---	0	0	0	1	0	206	0
07/03/2007	*	---	---	---	---	0	4	0	0	---	0	0
07/04/2007		---	---	---	---	0	11	0	0	128	204	88
07/05/2007	*	---	---	---	---	0	11	0	0	---	0	202
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		---	---	---	---	---	---	---	---	---	---	---
<hr/>												
Total:	0	0	0	0	40	41	21	19	801	2,078	969	
# Days:	0	0	0	0	14	14	14	14	7	14	14	
Average:	0	0	0	0	3	3	2	1	114	148	69	
YTD	43,491	86,948	15,108	6,553	2,247,453	655,087	355,436	23,746	2,224,840	4,262,352	1,949,676	

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)	
06/29/2007	*	---	---	---	---	3,695	6,033	1,090	73	---	48,663	53,452
06/30/2007		---	---	---	---	4,537	8,903	875	80	214,337	109,825	28,084
07/01/2007	*	---	---	---	---	3,074	27,724	595	49	---	193,317	70,093
07/02/2007		---	---	---	---	6,717	5,949	1,484	83	246,586	87,177	53,702
07/03/2007	*	---	---	---	---	2,626	3,048	260	86	---	54,413	19,225
07/04/2007		---	---	---	---	2,408	5,907	847	333	235,356	117,173	90,646
07/05/2007	*	---	---	---	---	6,535	8,761	1,763	566	---	104,242	38,678
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		---	---	---	---	---	---	---	---	---	---	---
<hr/>												
Total:	0	0	0	0	51,659	95,230	13,320	3,258	2,291,440	1,644,255	968,149	
# Days:	0	0	0	0	14	14	14	14	7	14	14	
Average:	0	0	0	0	3,690	6,802	951	233	327,349	117,447	69,154	
YTD	0	82	90	255	309,484	417,865	73,328	7,405	3,633,459	2,098,478	3,523,762	

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)
06/29/2007 *	---	---	---	---	0	0	0	5	---	132	252
06/30/2007	---	---	---	---	0	0	0	9	0	0	0
07/01/2007 *	---	---	---	---	0	14	0	10	---	0	86
07/02/2007	---	---	---	---	0	0	0	6	132	0	98
07/03/2007 *	---	---	---	---	0	0	0	5	---	0	0
07/04/2007	---	---	---	---	0	11	0	6	0	204	86
07/05/2007 *	---	---	---	---	0	0	5	4	---	0	0
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	---	---	---	---	---	---	---	---	---	---	---
<hr/>											
Total:	0	0	0	0	16	201	32	58	218	1,363	908
# Days:	0	0	0	0	14	14	14	14	7	14	14
Average:	0	0	0	0	1	14	2	4	31	97	65
YTD	0	0	0	57	50,684	55,161	17,949	64,368	99,041	346,752	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)
06/29/2007 *	---	---	---	---	9	675	63	0	---	331	586
06/30/2007	---	---	---	---	33	560	28	2	490	666	105
07/01/2007 *	---	---	---	---	25	708	22	3	---	304	227
07/02/2007	---	---	---	---	72	720	44	3	132	0	0
07/03/2007 *	---	---	---	---	48	266	15	0	---	0	8
07/04/2007	---	---	---	---	29	207	12	0	0	347	231
07/05/2007 *	---	---	---	---	45	921	127	3	---	204	0
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	---	---	---	---	---	---	---	---	---	---	---
<hr/>											
Total:	0	0	0	0	491	7,249	766	27	1,635	3,495	2,284
# Days:	0	0	0	0	14	14	14	14	7	14	14
Average:	0	0	0	0	35	518	55	2	234	250	163
YTD	3,734	45,908	1,940	7,792	1,859,151	1,850,578	739,460	18,526	376,150	959,340	266,227

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)	
06/29/2007	*	---	---	---	---	0	0	0	0	---	132	83
06/30/2007		---	---	---	---	0	0	0	0	98	133	105
07/01/2007	*	---	---	---	---	0	0	0	1	---	0	0
07/02/2007		---	---	---	---	0	0	0	0	0	413	0
07/03/2007	*	---	---	---	---	0	0	0	0	---	0	0
07/04/2007		---	---	---	---	0	0	0	0	0	0	43
07/05/2007	*	---	---	---	---	0	0	0	3	---	0	0
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		---	---	---	---	---	---	---	---	---	---	---
<hr/>												
Total:		0	0	0	0	0	0	0	4	355	1,293	280
# Days:		0	0	0	0	14	14	14	14	7	14	14
Average:		0	0	0	0	0	0	0	0	51	92	20
YTD		27	0	0	413	20,682	17,100	5,735	16,422	513,701	790,125	170,987

* 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
 $\text{Passage Index} = \text{Collection Counts} / \{ \text{Powerhouse Flow} / (\text{Powerhouse Flow} + \text{Spill}) \}$
- LGS (Index) = Little Goose Bypass Collection System : Passage Index Counts
 $\text{Passage Index} = \text{Collection Counts} / \{ \text{Powerhouse Flow} / (\text{Powerhouse Flow} + \text{Spill}) \}$
- LMN (Index) = Lower Monumental Dam Bypass Collection System : Passage Index Counts
 $\text{Passage Index} = \text{Collection Counts} / \{ \text{Powerhouse Flow} / (\text{Powerhouse Flow} + \text{Spill}) \}$
- RIS (Index) = Rock Island Dam Second Powerhouse Bypass Trap : Passage Index Counts
 $\text{Passage Index} = \text{Collection Counts} / \{ \text{Powerhouse 2 Flow} / (\text{Powerhouse 1 \& 2 Flow} + \text{Spill}) \}$
- MCN (Index) = McNary Dam Bypass Collection System : Passage Index Counts
 $\text{Passage Index} = \text{Collection Counts} / \{ \text{Powerhouse Flow} / (\text{Powerhouse Flow} + \text{Spill}) \}$
- JDA (Index) = John Day Dam Bypass Collection System : Passage Index Counts
 $\text{Passage Index} = \text{Collection Counts} / \{ \text{Powerhouse Flow} / (\text{Powerhouse Flow} + \text{Spill}) \}$
- BO2 (Index) = Bonneville Dam Second Powerhouse Bypass Collection System : Passage Index Counts
 $\text{Passage Index} = \text{Collection Counts} / \{ \text{Powerhouse 2 Flow} / (\text{Powerhouse 1 \& 2 Flow} + \text{Spill}) \}$

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:

7/13/07 9:39 AM

06/29/07 TO 07/13/07

Site	Data	Species					Grand Total
		CH0	CH1	CO	SO	ST	
LGR	Sum of NumberCollected	24,300	20	8		228	24,556
	Sum of NumberBarged	12,112	19	7		206	12,344
	Sum of NumberBypassed	9,640	0	0		0	9,640
	Sum of Numbertrucked	1,584	0	0		32	1,616
	Sum of SampleMorts	94	1	0		0	95
	Sum of FacilityMorts	555	0	1		4	560
	Sum of ResearchMorts	464	0	0		0	464
	Sum of TotalProjectMorts	1,113	1	1		4	1,119
LGS	Sum of NumberCollected	66,255	30	141		5,050	71,476
	Sum of NumberBarged	67,120	35	155		5,200	72,510
	Sum of NumberBypassed	229	0	0		0	229
	Sum of Numbertrucked	0	0	0		0	0
	Sum of SampleMorts	19	0	0		8	27
	Sum of FacilityMorts	92	5	1		44	142
	Sum of ResearchMorts	0	0	0		0	0
	Sum of TotalProjectMorts	111	5	1		52	169
LMN	Sum of NumberCollected	6,550	10	16		374	6,950
	Sum of NumberBarged	6,027	6	14		295	6,342
	Sum of NumberBypassed	310	0	0		31	341
	Sum of Numbertrucked	0	0	0		0	0
	Sum of SampleMorts	33	0	0		2	35
	Sum of FacilityMorts	28	0	0		3	31
	Sum of ResearchMorts	0	0	0		0	0
	Sum of TotalProjectMorts	61	0	0		5	66
MCN	Sum of NumberCollected	1,193,790	350	100	207	836	1,195,283
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	1,192,551	350	100	206	836	1,194,043
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of SampleMorts	315	0	0	1	0	316
	Sum of FacilityMorts	742	0	0	0	0	742
	Sum of ResearchMorts	182	0	0	0	0	182
	Sum of TotalProjectMorts	1,239	0	0	1	0	1,240
Total Sum of NumberCollected		1,290,895	410	265	207	6,488	1,298,265
Total Sum of NumberBarged		85,259	60	176	0	5,701	91,196
Total Sum of NumberBypassed		1,202,730	350	100	206	867	1,204,253
Total Sum of Numbertrucked		1,584	0	0	0	32	1,616
Total Sum of SampleMorts		461	1	0	1	10	473
Total Sum of FacilityMorts		1,417	5	2	0	51	1,475
Total Sum of ResearchMorts		646	0	0	0	0	646
Total Sum of TotalProjectMorts		2,524	6	2	1	61	2,594

YTD Transportation Summary

Source: Fish Passage Center

Updated:

7/13/07 9:39 AM

TO: 07/13/07

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	181,921	1,578,082	38,263	15,920	1,367,713	3,181,899
	Sum of NumberBarged	139,951	1,125,028	36,811	15,540	1,185,454	2,502,784
	Sum of NumberBypassed	37,678	451,109	1,432	356	181,734	672,309
	Sum of NumberTrucked	1,584	0	0	0	32	1,616
	Sum of SampleMorts	184	57	1	2	31	275
	Sum of FacilityMorts	1,294	1,008	19	22	462	2,805
	Sum of ResearchMorts	1,107	880	0	0	0	1,987
	Sum of TotalProjectMorts	2,585	1,945	20	24	493	5,067
LGS	Sum of NumberCollected	290,543	463,064	39,547	11,991	1,306,660	2,111,805
	Sum of NumberBarged	285,805	398,111	38,994	11,544	1,184,007	1,918,461
	Sum of NumberBypassed	3,861	64,720	541	433	121,828	191,383
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	36	31	4	2	30	103
	Sum of FacilityMorts	188	197	4	12	691	1,092
	Sum of ResearchMorts	110	7	0	0	0	117
	Sum of TotalProjectMorts	334	235	8	14	721	1,312
LMN	Sum of NumberCollected	40,159	279,115	13,490	4,155	573,656	910,575
	Sum of NumberBarged	35,648	270,552	13,465	4,130	561,656	885,451
	Sum of NumberBypassed	4,083	8,083	21	2	11,459	23,648
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	72	30	0	0	75	177
	Sum of FacilityMorts	71	393	2	23	439	928
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	143	423	2	23	514	1,105
MCN	Sum of NumberCollected	1,864,791	1,316,837	58,612	304,436	222,572	3,767,248
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	1,863,397	1,315,864	58,597	303,929	222,173	3,763,960
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	367	141	4	58	33	603
	Sum of FacilityMorts	828	819	11	447	366	2,471
	Sum of ResearchMorts	200	13	0	2	0	215
	Sum of TotalProjectMorts	1,395	973	15	507	399	3,289
Total Sum of NumberCollected		2,377,414	3,637,098	149,912	336,502	3,470,601	9,971,527
Total Sum of NumberBarged		461,404	1,793,691	89,270	31,214	2,931,117	5,306,696
Total Sum of NumberBypassed		1,909,019	1,839,776	60,591	304,720	537,194	4,651,300
Total Sum of NumberTrucked		1,584	0	0	0	32	1,616
Total Sum of SampleMorts		659	259	9	62	169	1,158
Total Sum of FacilityMorts		2,381	2,417	36	504	1,958	7,296
Total Sum of ResearchMorts		1,417	900	0	2	0	2,319
Total Sum of TotalProjectMorts		4,457	3,576	45	568	2,127	10,773

Cumulative Adult Passage at Mainstem Dams Through: 07/12

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	07/12	66624	16606	96456	2908	156175	8234	40355	11218	85998	3249	58067	6095	0	0	0	0	0	0
TDA	07/12	52795	15406	61827	2176	108412	6003	32933	9088	70248	2629	48898	4200	0	0	0	0	0	0
JDA	07/12	43379	13663	50313	2093	90974	4767	29143	8477	62834	2694	45078	4001	0	0	0	0	0	0
MCN	07/12	38852	12252	45887	2475	83968	5029	25012	6821	52152	2295	41628	3615	0	0	0	0	0	0
IHR	07/11	28047	7308	25434	875	56277	3172	6726	2017	7736	434	10720	1607	0	0	0	0	0	0
LMN	07/12	26963	6934	23589	548	53700	2904	9293	1230	8490	359	10149	1306	0	0	0	0	0	0
LGS	07/12	23953	7227	20836	733	51418	2974	5931	2196	5798	406	8502	1497	0	0	0	0	0	0
LGR	07/12	22481	8971	22530	973	51737	3293	5930	2512	4918	447	8476	1558	0	0	0	0	0	0
PRD	07/09	6708	489	8535	81	17371	512	16434	502	36382	119	25988	854	0	0	0	0	0	0
RIS	07/11	5572	2066	9643	483	14040	762	14452	2716	38756	653	23066	1727	0	0	0	0	0	0
RRH	07/11	2424	920	5376	274	5343	306	8496	1284	20421	465	13301	869	0	0	0	0	0	0
WEL	07/06	2040	752	4159	217	3869	205	2052	228	4860	123	4110	132	0	0	0	0	0	0
WFA	07/07	22294	235	35206	184	6942	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	0	0	0	0	0	0	23136	35478	57790	21673	21004	33458	6829
TDA	0	0	0	0	0	0	18066	28598	48033	9351	8399	15506	3028
JDA	1	0	0	0	0	0	22480	32837	51354	9693	11058	14610	3002
MCN	0	0	0	0	0	0	16531	27255	42692	6464	6302	8555	1363
IHR	0	0	0	0	0	0	46	30	27	4371	4144	4755	800
LMN	0	0	0	0	0	0	37	10	27	4793	4664	4308	1181
LGS	0	0	0	0	0	0	23	12	30	3090	3092	3429	857
LGR	0	0	0	0	0	0	32	6	28	11284	7905	7740	2486
PRD	0	1	0	0	1	0	17480	19587	42254	200	235	427	0
RIS	0	0	0	0	1	0	18486	22649	35627	191	172	355	88
RRH	0	0	0	0	1	0	13199	14193	22555	285	206	297	123
WEL	0	0	0	0	0	0	4230	2364	10137	77	49	50	49
WFA	2	0	0	0	0	0	0	0	0	17156	22672	3958	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: 07/13/07

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