



Fish Passage Center

Weekly Report #05 - 26

Sept 2, 2005

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Highlights:

- River flows at Lower Granite Dam averaged 33.4 Kcfs between June 21-August 31 and 20.5 Kcfs over the last week of August.
- River flows at McNary Dam averaged 165.1 Kcfs July 1st through August 31st and 131.1 Kcfs over the last week of August.
- Grand Coulee Reservoir exactly met its BiOp summer draft elevation of 1278 feet on August 31st, 2005.
- The Libby Reservoir drafted to elevation 2439.5 feet on midnight of August 31st, very close to its BiOp summer draft elevation of 2439 feet.
- Hungry Horse drafted to elevation 3539.8 feet on August 31st, 2005, slightly below its BiOp draft elevation of 3540 feet by the end of August.
- Dworshak drafted to elevation 1535.1 feet on August 31st, reserving almost exactly 200 Kaf of water for September flow and temperature augmentation.
- Spill at The Dalles Dam averaged 39% of daily average flow, slightly less than the 40% specified in the Biological Opinion.
- Judge Redden's June 10, 2005 opinion in NWF v. NMFS granted the spill portion of the National Wildlife Federation's requested injunctive relief. Spill was initiated at Lower Granite, Little Goose and Lower Monumental dams on June 20, 2005. Spill at McNary Dam began on July 1. All other Lower Columbia River projects and Ice Harbor dam implemented the Biological Opinion summer spill program. Spill as part of the court settlement or the Biological Opinion was terminated at all projects on August 31.

Summary of Events:

Water Supply: Precipitation has been well below average over the first twenty-two days of August at most Columbia Basin locations. Of the sites in Table 1, none recorded precipitation that was greater than average. Over the entire water year, precipitation remains slightly below average at most locations.

Table 1. Summary of August precipitation and cumulative October through August precipitation with respect to average (1971-2000), at select locations within the Columbia and Snake River Basins.

Location	Water Year 2005 August 1-22		Water Year 2005 October 1, 2004 to August 22, 2005	
	Observed (inches)	% Average	Observed (inches)	% Average
Columbia Above Coulee	0.71	60	21.80	93
Snake River Above Ice Harbor	0.45	74	16.22	98
Columbia Above The Dalles	0.50	59	19.23	88
Kootenai	0.94	78	22.37	93
Clark Fork	0.36	39	13.12	80
Flathead	0.73	64	21.10	98
Pend Oreille/Spokane	0.49	54	25.78	87
Central Washington	0.13	49	6.80	79
Snake River Plain	0.35	86	12.55	118
Salmon/Boise/ Payette	0.21	42	15.53	82
Clearwater	0.08	9	23.94	82
SW Washington Cascades/Cowlitz	0.02	18	49.69	73
Willamette Valley	0.02	2	39.90	69

The summer flow objective period began at Lower Granite Dam on June 21st, 2005 and extended through August 31st, 2005, the flow objective was 50 Kcfs. River flows at Lower Granite Dam averaged 33.4 Kcfs between June 21-August 31 and 20.5 Kcfs over the last week of August.

The summer flow objective period at McNary Dam began on July 1st, 2005 and extended through August 31st with a flow objective of 200 Kcfs. River flows at McNary Dam averaged 165.1 Kcfs July 1st through August 31st and 131.1 Kcfs over the last week of August.

Grand Coulee Reservoir exactly met its BiOp summer draft elevation of 1278 feet on August 31st, 2005. Currently outflows at Grand Coulee are 65.9 Kcfs, it is anticipated that Grand Coulee will refill slightly over the weekend.

The Libby Reservoir drafted to elevation 2439.5 feet on midnight of August 31st, very close to its BiOp summer draft elevation of 2439 feet. Currently, outflows at Libby are 12 Kcfs.

Hungry Horse drafted to elevation 3539.8 feet on August 31st, 2005, slightly below its BiOp draft elevation of 3540 feet by the end of August. Currently outflows at Hungry Horse are 2.7 Kcfs.

Dworshak drafted to elevation 1535.1 feet on August 31st, reserving almost exactly 200 Kaf of water for September flow and temperature augmentation. Outflows at Dworshak remain near 7.1 Kcfs. Dworshak is projected to draft to elevation 1520 feet by mid September.

The Brownlee Reservoir was at an elevation of 2052.1 feet on September 1st, 2005 with outflows at Hells Canyon ranging between 8.7 and 11.2 Kcfs over the last week.

Spill: Judge Redden's June 10, 2005 opinion in NWF v. NMFS granted the spill portion of the National Wildlife Federation's requested injunctive relief. Spill started at Lower Granite, Little Goose, Lower Monumental, and Ice Harbor dams on June 20 and ended at midnight on August 31, 2005. Spill at Lower Granite Dam, Lower Monumental and Ice Harbor Dams was provided as flow in excess of the operation of one unit. Spill at Little Goose Dam was changed to gas cap spill during nighttime hours and 30% of instantaneous flow

during daytime hours to address concerns regarding adult passage at this project. Spill averaged 52% of daily average flows at Lower Granite, 35% of daily average flows at Little Goose, 47% of daily average flows at Lower Monumental and 51% of daily average flows at Ice Harbor over the past week.

Biological Opinion summer spill at the lower Columbia River projects and the court ordered spill at McNary Dam began on July 1 and ended on August 31 at midnight, or shortly thereafter. Spill at McNary Dam averaged 58% of daily average flow. Spill at John Day Dam averaged 30% of daily average flow. Spill at The Dalles Dam was provided via fixed spill gate openings (dogged off) and variable gate operations of spillbays 1 and 2. This past week volumes have averaged 39%, close to the percentage specified in the Biological Opinion. Spill at Bonneville Dam averaged 62% of average daily flow over the past week.

No fish were observed with signs of gas bubble trauma in the monitoring program over the past week. The GBT monitoring program ended this past week.

Smolt Monitoring: Passage indices for subyearling Chinook were lower this week at all SMP sites. At Lower Granite Dam in the Lower Snake River the subyearling Chinook passage index averaged 120 per day this week compared to 130 the previous week. In the past two weeks only 4 clipped subyearling Chinook have been collected in the sample compared to 808 unclipped fish, indicating that the run is likely made up of mostly unmarked wild fish. PIT-tag detections at Lower Granite are mainly from a fall Chinook release at Big Canyon Creek Acclimation Pond. Of the more than 40,000 released at BCCAP, 125 have been detected at Lower Granite since August 1, with 19 detections in the last week. The BCCAP PIT-tag release was not a production release of hatchery fish, instead nearly the entire release was PIT-tagged and fish were released at a small size in an attempt to imitate the out-migration pattern of wild origin Clearwater River fall Chinook.

At Little Goose and Lower Monumental dams the subyearling Chinook indices were down

with the index at Little Goose falling to 85 per day average this week while the index was steady at 38 per day this week at Lower Monumental Dam.

In the Mid-Columbia, at Rock Island Dam, where SMP sampling ended yesterday, subyearling indices were down to less than 10 per day this week.

At McNary Dam indices for subyearlings were also lower this week. The average index fell to 190 per day compared to 770 per day last week.

John Day Dam and Bonneville Dam also saw subyearling Chinook indices decline this past week. At John Day Dam the index for subyearling Chinook averaged 280 this week compared to 700 last week, while at Bonneville Dam the subyearling index averaged 730 this past week down from 880 last week.

Hatchery Releases: The Zone Release Report below summarizes releases of juvenile salmonids (species) from State, Federal or Tribal hatcheries or acclimation ponds for the 2005 migration. Releases for hatcheries below Bonneville have been included in the Table. For the 2005 migration season, approximately 83.7 million juvenile fish were released from hatcheries in the river systems located above Bonneville Dam with the remaining released in the Willamette, Cowlitz, and other major tributaries in the lower Columbia River. These totals will be updated and finalized throughout the year. Additional hatchery releases will be completed this summer and fall, but the majority of those fish should migrate the following year. No hatchery releases are scheduled for the next two weeks.

Hatchery Zone Release Report

	Friday 02-Sep-2005				
	Snake River	Mid-Columbia	Lower Columbia	Below Bonneville	Total Release
Fall Chinook	4,907,703	12,449,054	21,567,139	20,975,982	59,899,878
Spring Chinook	9,440,350	5,158,571	5,150,959	11,337,455	31,087,335
Summer Chinook	2,348,012	3,370,613			5,718,625
Chum				163,000	163,000
Coho	816,300	1,868,096	5,149,621	11,062,156	18,896,173
Sockeye	209,046	592,459			801,505
Summer Steelhead	8,887,764	1,188,619	523,769	1,523,905	12,124,057
Winter Steelhead			118,793	1,765,291	1,884,084
Total	26,609,175	24,627,412	32,510,281	46,827,789	130,574,657

Adult Fish Passage: Water temperatures in the Columbia River were near 70 F at most projects, slightly reduced from the previous week but above desired temperatures for salmonids.

At Bonneville Dam, numbers of adult fall Chinook salmon averaged 4,186 per day for the week ending September 1st; note that September 1 count only records the WA ladder so that day was incomplete and not used in the daily average. The season total of 46,519 adult Chinook salmon reduced to only 39.2% of the 2004 count, way down from the previous week when the 2005, August 25 count was about 112.7% of the 2004 count. In addition the 2005 count was only 52% of the 10-year average through September 1st. Tule fall Chinook and Bright fall Chinook counts at the Bonneville Project can be accessed at the FPC website: http://www.fpc.org/adultsalmon/adulthistory/bon_tule_brights2005.html. This information is updated as it is received from WDFW who compiles the information from observation of adult fish passing the count windows at Bonneville Dam. Expectations remain that the fall Chinook Run should again produce excellent numbers of Bright and Tule fall Chinook; however, this week the Run fell way behind the 2004 and 10-year average. The normal peak passage for the fall Chinook at Bonneville Dam occurs during the first two to three weeks of September so numbers should continue to increase at Bonneville and upriver projects as the migration of these fish moves steadily upstream.

At Bonneville Dam, steelhead counts declined from near 3,500 per day to near 1,000 per day by the end of the count week, September 1st. This year's total of 207,290 is near equal the 2004 count of 207,751 and remained less than the 10-year average of 223,263 through September 1st. The larger-sized B-Run steelhead should begin to increase at Bonneville Dam as they normally start arriving in late August and continue fairly strong through September. B-Run steelhead are primarily destined for the Clearwater River basin while the A-Run steelhead generally are spread throughout the remaining basins in the Columbia and Snake rivers, and as a rule arrive and pass Bonneville Dam earlier than the later B-Run fish. Steelhead

continued to move out of the Bonneville pool with the daily counts at the Dalles Dam ranging between 1,000 and 2,400 for the week. The cumulative steelhead count through September 1st was 73,165, with the count differential between Bonneville and The Dalles still about 134,000, or approximately 35% of the steelhead counted at Bonneville have passed The Dalles Dam. At McNary Dam, 42,841 steelhead have been counted to date with about 19,550 counted into the Snake River (Ice Harbor) and 5,500 counted into the Mid-Columbia River at Priest Rapids Dam.

The daily counts of coho salmon at Bonneville Dam ranged from 150 to 600 for the week with the cumulative count up to 3,321 adult fish through September 1st. This total fell well below the 2004 and 10-year average this week. Passage of coho should increase through mid-September as the Run moves in from the ocean.

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
08/19/05	110.6	0.1	115.4	0.0	118.2	8.1	116.5	0.0	116.6	0.0	120.4	1.9	116.3	1.1
08/20/05	103.4	0.2	102.3	0.0	102.1	7.2	100.9	0.0	102.2	0.0	108.5	1.7	108.7	1.0
08/21/05	85.3	0.2	85.4	0.0	88.7	6.6	86.5	0.0	88.3	0.0	91.4	1.9	88.3	1.1
08/22/05	110.8	0.2	115.5	0.0	117.4	8.1	111.2	0.0	110.2	0.0	114.0	1.9	110.9	1.1
08/23/05	95.6	0.2	87.5	0.0	89.4	7.4	92.0	0.0	94.4	0.0	115.1	1.6	113.7	1.0
08/24/05	98.4	0.2	104.5	0.0	108.7	8.0	104.9	0.0	102.3	0.0	97.0	0.9	101.0	0.9
08/25/05	114.2	0.1	112.6	0.0	111.6	8.1	106.2	0.0	105.3	0.0	101.9	1.8	92.6	1.0
08/26/05	114.9	0.1	119.4	0.0	118.9	8.0	115.0	0.0	115.0	0.0	113.6	2.1	109.1	1.3
08/27/05	88.2	0.1	86.9	0.0	91.1	0.1	96.1	0.2	98.7	0.0	115.6	1.8	118.1	4.6
08/28/05	77.7	0.1	73.7	0.0	74.0	0.0	74.0	0.0	75.6	0.0	83.5	1.7	82.8	0.8
08/29/05	104.8	0.1	100.8	0.0	98.8	0.0	97.3	0.0	92.8	0.0	106.4	1.4	104.8	0.8
08/30/05	104.8	0.1	108.1	0.0	108.3	0.3	105.5	0.0	106.4	0.0	87.3	0.9	90.1	0.9
08/31/05	115.9	0.2	118.5	0.0	118.8	4.0	114.5	0.9	113.2	0.0	112.7	2.8	99.8	1.0
09/01/05	65.9	0.2	73.1	0.0	77.8	0.0	85.4	2.3	87.3	0.0	101.6	8.3	102.2	7.0

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
08/19/05	7.1	0.0	8.4	8.0	18.6	7.9	22.5	8.1	19.8	8.2	22.9	13.1		
08/20/05	7.1	0.1	9.1	8.2	20.0	9.3	20.2	8.2	18.7	9.2	17.5	7.3		
08/21/05	7.1	0.0	9.0	8.4	19.7	7.7	21.5	7.4	21.0	8.5	22.1	12.0		
08/22/05	7.1	0.0	8.9	8.6	18.7	9.6	19.6	9.3	15.2	11.4	15.0	5.0		
08/23/05	7.1	0.0	9.0	8.6	19.9	8.0	21.8	9.0	23.4	11.0	26.2	16.1		
08/24/05	7.1	0.0	10.0	8.6	18.7	6.8	20.7	7.1	21.0	8.6	19.9	10.0		
08/25/05	7.1	0.0	8.8	8.8	19.8	8.1	22.6	8.3	20.9	8.6	20.3	13.9		
08/26/05	7.2	0.0	9.1	10.1	20.5	8.4	21.1	7.5	19.7	9.2	20.2	10.1		
08/27/05	7.1	0.0	8.2	9.8	20.5	8.4	22.1	7.7	21.1	8.7	22.7	12.4		
08/28/05	7.1	0.0	10.3	11.2	20.7	8.4	21.3	7.6	19.3	9.1	20.3	9.9		
08/29/05	7.1	0.0	8.8	9.7	21.5	14.6	21.5	8.0	20.8	8.4	19.1	8.9		
08/30/05	7.1	0.0	9.3	8.9	20.7	13.8	20.7	7.2	22.5	11.3	24.5	14.4		
08/31/05	7.2	0.0	8.2	8.7	19.9	11.5	20.4	6.9	17.7	10.1	20.5	10.1		
09/01/05	7.2	---	---	---	20.0	3.9	21.9	0.1	20.3	0.0	16.0	0.1		

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

Date	McNary		John Day		The Dalles		Bonneville		PH1	PH2
	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill		
08/19/05	151.3	95.7	146.4	43.7	141.3	55.6	146.6	85.0	0.0	50.1
08/20/05	134.5	79.1	121.0	36.3	120.6	47.7	132.8	80.0	0.0	41.3
08/21/05	125.1	69.7	108.0	32.4	108.9	42.3	116.8	97.9	0.0	30.3
08/22/05	143.2	88.3	128.5	38.5	124.0	48.0	129.3	76.8	0.0	41.0
08/23/05	153.0	98.1	137.8	41.1	134.1	50.9	139.2	83.9	0.0	43.7
08/24/05	144.3	89.3	128.7	38.0	123.7	48.6	141.2	88.2	0.0	41.4
08/25/05	128.2	73.5	114.5	35.0	113.5	45.0	121.3	79.2	0.2	30.3
08/26/05	121.6	67.1	105.2	30.8	108.5	41.0	117.7	75.5	0.0	30.7
08/27/05	145.3	90.2	130.4	38.1	121.0	46.8	126.7	75.6	0.0	39.6
08/28/05	133.4	78.3	119.0	35.4	117.4	46.5	122.1	74.5	0.0	36.2
08/29/05	125.5	70.7	108.9	32.6	106.4	41.9	114.7	73.3	1.6	28.4
08/30/05	150.2	95.7	135.3	41.1	129.8	50.4	138.8	82.2	0.0	45.1
08/31/05	113.7	59.4	115.7	34.8	114.6	44.5	123.1	77.4	0.0	35.0
09/01/05	128.7	0.2	112.2	0.5	114.1	2.3	121.5	1.8	44.3	68.9

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											
	08/21/05	Chinook + Steelhead	1	0	0	0.00%	0.00%	0	0	0	0
	08/28/05	Chinook + Steelhead	9	0	0	0.00%	0.00%	0	0	0	0
Lower Monumental Dam											
	08/26/05	Chinook + Steelhead	5	0	0	0.00%	0.00%	0	0	0	0
Bonneville Dam											
	08/23/05	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	08/26/05	Chinook + Steelhead	61	0	0	0.00%	0.00%	0	0	0	0
	08/30/05	Chinook + Steelhead	48	0	0	0.00%	0.00%	0	0	0	0
McNary Dam											
	08/22/05	Chinook + Steelhead	11	0	0	0.00%	0.00%	0	0	0	0
	08/25/05	Chinook + Steelhead	10	0	0	0.00%	0.00%	0	0	0	0
	08/29/05	Chinook + Steelhead	6	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>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>		
8/19	---	---	---	0	106	107	108	24	107	108	108	24	105	106	109	24	106	106	107	24
8/20	---	---	---	0	107	107	108	24	106	107	107	24	106	107	109	24	106	106	107	24
8/21	---	---	---	0	108	109	109	24	106	107	107	22	106	107	110	24	106	106	107	24
8/22	---	---	---	0	108	108	108	24	107	108	108	24	106	107	110	24	106	106	107	24
8/23	---	---	---	0	107	108	109	24	107	108	108	24	106	107	110	24	106	106	106	23
8/24	---	---	---	0	107	107	109	22	107	107	107	22	105	106	110	22	105	106	107	24
8/25	---	---	---	0	106	107	107	24	106	106	107	24	105	106	109	24	105	105	105	24
8/26	---	---	---	0	106	107	107	24	105	106	106	24	105	106	108	24	105	105	106	23
8/27	---	---	---	0	107	107	107	24	106	106	107	24	106	107	111	24	105	106	107	24
8/28	---	---	---	0	107	107	108	24	106	106	107	24	106	106	110	24	106	106	106	24
8/29	---	---	---	0	107	107	107	14	107	107	107	15	105	105	106	14	105	106	106	14
8/30	---	---	---	0	105	105	106	24	106	106	106	24	104	105	107	24	104	104	105	24
8/31	---	---	---	0	105	105	105	24	106	106	106	24	104	105	107	24	104	104	105	24
9/1	---	---	---	0	105	105	105	24	105	105	105	24	104	104	106	24	104	105	105	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>	<u>Avg</u>		
8/19	106	106	107	19	105	106	107	24	107	108	109	24	107	107	108	24	108	108	108	24
8/20	106	107	107	24	105	106	106	24	107	108	108	24	107	107	107	24	107	108	108	24
8/21	106	107	108	22	105	106	107	24	107	108	108	24	107	108	108	24	107	108	108	24
8/22	107	107	108	24	106	106	107	24	108	109	109	24	107	107	108	24	107	108	108	24
8/23	107	108	109	22	105	105	106	24	107	107	107	24	107	107	107	24	107	107	107	24
8/24	106	107	108	21	104	104	105	24	106	106	107	24	106	106	106	24	106	106	107	24
8/25	105	106	107	24	104	105	106	24	106	107	107	24	106	106	106	24	106	106	106	24
8/26	106	106	107	24	105	105	106	24	107	108	108	24	106	106	107	24	106	106	107	24
8/27	106	107	108	24	105	106	106	24	106	107	108	24	106	107	107	24	107	107	107	24
8/28	106	107	108	23	105	106	107	24	105	106	106	24	107	108	108	24	107	108	108	24
8/29	106	106	107	14	105	105	106	14	105	105	106	14	107	107	108	14	107	107	108	14
8/30	105	106	107	20	103	104	104	24	103	104	104	24	103	104	104	24	104	104	105	24
8/31	105	105	106	23	103	104	104	24	104	105	110	24	103	104	104	24	104	104	104	24
9/1	105	106	107	24	104	105	106	24	106	108	111	24	104	104	104	24	105	106	109	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>	<u>Avg</u>		
8/19	107	108	108	24	108	109	109	24	---	---	---	0	---	---	---	0	---	---	---	0
8/20	107	108	108	24	108	109	109	24	---	---	---	0	---	---	---	0	---	---	---	0
8/21	107	107	108	24	108	109	109	24	---	---	---	0	---	---	---	0	---	---	---	0
8/22	107	108	108	24	108	109	109	24	---	---	---	0	---	---	---	0	---	---	---	0
8/23	106	106	107	24	107	108	108	24	---	---	---	0	---	---	---	0	---	---	---	0
8/24	106	106	107	24	106	107	107	24	---	---	---	0	---	---	---	0	---	---	---	0
8/25	106	106	107	24	106	106	107	24	---	---	---	0	---	---	---	0	---	---	---	0
8/26	106	107	107	24	106	107	107	24	---	---	---	0	---	---	---	0	---	---	---	0
8/27	106	107	108	24	106	107	108	24	---	---	---	0	---	---	---	0	---	---	---	0
8/28	107	107	108	24	107	108	108	24	---	---	---	0	---	---	---	0	---	---	---	0
8/29	107	107	108	14	107	107	108	14	---	---	---	0	---	---	---	0	---	---	---	0
8/30	104	105	105	24	104	105	106	24	---	---	---	0	---	---	---	0	---	---	---	0
8/31	103	104	105	24	104	104	105	24	---	---	---	0	---	---	---	0	---	---	---	0
9/1	104	105	106	24	105	105	107	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>Clrwrtr-Peck</u>			<u>Anatone</u>			#				
	<u>24 h</u>	<u>12 h</u>	High	<u>24 h</u>	<u>12 h</u>	High	<u>24 h</u>	<u>12 h</u>	High	<u>24 h</u>	<u>12 h</u>	High	<u>24 h</u>	<u>12 h</u>	High					
	Avg	Avg		Avg	Avg		Avg	Avg		Avg	Avg		Avg	Avg			Avg			
8/19	---	---	---	0	104	105	105	24	99	99	100	23	100	102	103	23	100	101	102	24
8/20	---	---	---	0	104	105	105	24	99	100	100	24	100	102	103	24	100	101	103	23
8/21	---	---	---	0	105	105	106	24	99	100	100	24	101	102	104	24	100	101	103	24
8/22	---	---	---	0	105	106	106	24	99	99	99	24	100	101	102	24	99	100	100	24
8/23	---	---	---	0	104	104	105	24	99	100	100	24	100	102	103	24	99	100	100	24
8/24	---	---	---	0	102	103	103	24	99	99	100	24	100	102	103	24	99	100	101	22
8/25	---	---	---	0	102	103	103	24	99	99	100	24	100	101	103	24	99	100	101	24
8/26	---	---	---	0	103	104	104	24	99	99	100	24	100	102	104	24	101	103	104	24
8/27	---	---	---	0	103	104	104	24	99	99	100	24	101	102	104	24	101	103	104	24
8/28	---	---	---	0	103	104	104	24	99	100	100	24	101	103	104	24	101	103	104	24
8/29	---	---	---	0	102	102	103	13	99	99	99	13	100	100	102	13	100	100	100	13
8/30	---	---	---	0	101	102	102	24	98	99	99	22	100	101	102	22	100	101	102	24
8/31	---	---	---	0	101	102	103	24	98	99	99	24	100	101	103	24	100	102	103	24
9/1	---	---	---	0	102	102	103	24	98	99	100	24	100	101	103	24	100	102	103	24

Total Dissolved Gas Saturation Data at Snake River Sites

Date	<u>Clrwrtr-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>	High	<u>24 h</u>	<u>12 h</u>	High	<u>24 h</u>	<u>12 h</u>	High	<u>24 h</u>	<u>12 h</u>	High	<u>24 h</u>	<u>12 h</u>	High					
	Avg	Avg		Avg	Avg		Avg	Avg		Avg	Avg		Avg	Avg			Avg			
8/19	103	105	107	23	107	110	110	24	110	110	112	24	105	105	106	24	107	108	112	24
8/20	103	105	107	24	109	109	111	24	111	112	114	24	104	104	105	24	108	109	112	24
8/21	103	106	108	24	108	110	111	24	110	111	111	24	105	106	107	24	107	108	109	24
8/22	102	104	105	24	104	105	108	24	111	111	113	24	106	106	106	24	112	116	119	24
8/23	102	103	104	24	102	102	102	24	110	110	111	24	105	106	106	24	110	113	116	24
8/24	102	104	106	24	102	103	105	24	109	109	109	24	105	105	106	24	107	108	109	24
8/25	102	104	107	24	106	108	110	24	110	111	112	24	105	105	106	24	107	108	110	24
8/26	102	105	107	24	109	111	113	24	111	111	112	24	104	105	105	24	107	109	111	24
8/27	103	105	106	24	107	109	112	24	111	111	112	24	104	105	105	24	107	108	110	24
8/28	103	105	107	24	107	110	111	24	110	111	111	24	105	105	105	24	108	109	111	24
8/29	100	101	102	13	104	104	109	13	112	113	116	13	104	104	105	13	107	107	110	13
8/30	102	104	105	22	101	101	102	24	115	116	116	24	103	103	104	24	107	109	114	24
8/31	102	104	106	24	103	105	106	24	114	116	117	24	103	103	103	24	105	106	108	24
9/1	102	105	106	24	106	109	111	24	113	122	123	24	104	105	107	24	104	105	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>	High	<u>24 h</u>	<u>12 h</u>	High	<u>24 h</u>	<u>12 h</u>	High	<u>24 h</u>	<u>12 h</u>	High	<u>24 h</u>	<u>12 h</u>	High					
	Avg	Avg		Avg	Avg		Avg	Avg		Avg	Avg		Avg	Avg			Avg			
8/19	105	105	106	24	110	111	111	24	107	107	108	24	111	112	112	24	105	106	107	24
8/20	105	105	105	24	111	112	114	24	107	108	108	24	109	111	112	24	106	107	107	24
8/21	104	105	105	24	110	110	111	24	108	108	108	24	110	111	112	24	107	108	111	24
8/22	105	106	107	24	113	114	115	24	106	107	107	24	108	109	110	24	108	109	111	24
8/23	106	106	106	24	112	115	118	24	107	107	107	24	111	112	113	24	106	107	109	24
8/24	105	105	106	24	110	110	111	24	106	107	107	24	110	111	111	24	106	107	109	24
8/25	105	105	106	24	110	110	111	24	107	107	107	24	111	113	114	24	104	105	106	24
8/26	104	105	105	24	111	112	115	24	107	107	107	24	110	111	111	24	104	106	107	24
8/27	105	106	106	24	110	111	111	24	107	107	107	24	110	111	111	24	106	107	108	24
8/28	107	107	107	24	111	112	114	24	107	108	108	24	110	111	112	24	107	109	112	24
8/29	106	106	107	13	109	109	110	13	107	107	108	13	108	108	110	13	103	104	108	13
8/30	104	104	105	24	111	113	116	24	105	106	106	24	111	113	114	24	103	104	105	24
8/31	104	104	104	24	111	112	114	24	105	106	106	24	110	111	112	24	103	104	105	24
9/1	104	104	104	24	104	105	111	24	105	106	106	24	107	108	109	24	103	105	107	24

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>	#	<u>24h</u>	<u>12h</u>	#	<u>24h</u>	<u>AVG</u>	<u>High</u>	#	
	Avg	Avg		High	hr		Avg	Avg		High	hr		Avg	Avg		High	hr	Avg		AVG
8/19	104	104	105	24	116	117	117	24	104	104	106	23	114	115	116	24	107	107	107	23
8/20	104	104	104	24	115	116	117	24	104	105	105	23	114	115	115	24	107	107	108	23
8/21	104	105	105	24	115	116	117	24	104	104	105	23	113	114	115	24	106	107	107	23
8/22	104	105	105	24	116	117	117	24	104	104	104	23	114	114	115	21	104	105	105	23
8/23	105	105	105	24	116	117	117	24	104	104	104	23	113	115	115	24	103	103	103	23
8/24	104	104	105	24	116	117	117	24	103	104	105	23	114	115	115	24	104	104	105	23
8/25	103	104	104	24	115	116	116	24	105	105	107	23	114	115	115	24	106	107	107	23
8/26	102	103	104	24	114	115	116	24	105	106	106	23	114	114	115	24	107	107	108	23
8/27	103	103	104	24	116	117	118	24	104	104	105	23	114	114	115	24	106	106	107	23
8/28	104	105	105	24	115	116	117	24	104	104	105	23	113	114	114	24	106	106	106	23
8/29	103	103	104	13	113	113	114	13	103	103	104	11	111	111	112	13	105	105	106	11
8/30	102	102	102	24	116	116	117	24	102	102	102	23	111	112	113	24	102	103	103	23
8/31	102	102	103	24	114	114	114	24	102	102	103	23	111	111	111	23	105	105	106	23
9/1	103	103	103	24	104	104	114	24	103	103	104	23	100	102	109	24	106	107	108	23

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>	#	<u>24h</u>	<u>12h</u>	#	<u>24h</u>	<u>12h</u>	<u>High</u>	#	
	Avg	Avg		High	hr		Avg	Avg		High	hr		Avg	Avg		High	hr	Avg		AVG
8/19	112	113	114	24	106	107	107	23	115	115	116	23	111	113	115	24	115	116	118	17
8/20	113	114	114	24	107	108	108	23	115	116	116	23	112	113	114	24	115	116	118	17
8/21	112	112	113	24	106	107	108	23	115	115	116	23	111	112	113	24	114	114	115	17
8/22	111	112	112	24	104	104	105	23	114	115	115	23	111	111	112	24	115	115	118	16
8/23	110	111	111	24	102	102	103	23	114	115	115	23	110	110	111	24	115	116	120	17
8/24	111	112	113	24	102	103	103	23	115	116	117	23	111	112	114	24	115	116	118	16
8/25	112	113	114	24	104	104	104	23	115	115	116	23	109	110	112	24	114	114	115	17
8/26	112	113	113	24	106	106	107	23	115	115	116	23	112	114	114	24	114	114	114	17
8/27	112	112	113	24	107	107	107	23	115	115	116	23	113	113	114	24	115	116	118	17
8/28	112	113	113	24	106	106	107	23	115	116	117	23	112	113	114	24	115	115	115	17
8/29	110	110	111	12	104	104	105	11	113	113	114	7	110	110	111	12	114	114	114	15
8/30	110	110	111	24	103	103	103	23	114	115	116	23	112	113	114	24	115	116	118	17
8/31	110	111	111	24	103	104	104	23	115	116	117	23	112	113	114	24	114	114	114	8
9/1	107	109	111	24	105	106	106	23	107	108	112	23	111	112	113	23	---	---	---	0

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)
08/19/2005	---	---	---	---	0	0	2	0	0	0	0
08/20/2005	---	---	---	---	0	0	0	0	0	0	0
08/21/2005	*	---	---	---	2	0	0	0	0	0	0
08/22/2005	---	---	---	---	0	0	0	0	0	0	0
08/23/2005	---	---	---	---	0	0	0	0	0	0	0
08/24/2005	---	---	---	---	0	0	0	0	0	0	0
08/25/2005	*	---	---	---	0	0	0	0	0	0	0
08/26/2005	---	---	---	---	0	0	0	0	0	0	0
08/27/2005	---	---	---	---	0	0	0	0	0	0	0
08/28/2005	---	---	---	---	0	0	0	0	0	7	0
08/29/2005	---	---	---	---	0	0	0	0	0	0	0
08/30/2005	---	---	---	---	0	0	0	0	0	0	0
08/31/2005	---	---	---	---	0	0	0	0	0	0	0
09/01/2005	*	---	---	---	0	0	0	0	0	0	0
<hr/>											
Total:	0	0	0	0	2	0	2	0	0	7	0
# Days:	0	0	0	0	14	14	14	14	14	14	14
Average:	0	0	0	0	0	0	0	0	0	1	0
YTD	43,641	42,830	5,792	1,810	5,673,861	2,475,791	706,771	14,797	1,226,429	1,409,478	1,527,240

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)
08/19/2005	---	---	---	---	192	214	49	10	1,135	1,271	873
08/20/2005	---	---	---	---	124	164	30	13	1,900	1,063	636
08/21/2005	*	---	---	---	108	81	17	16	832	664	594
08/22/2005	---	---	---	---	117	57	74	2	408	400	808
08/23/2005	---	---	---	---	129	29	22	14	686	419	1,397
08/24/2005	---	---	---	---	145	27	23	6	215	636	1,119
08/25/2005	*	---	---	---	104	111	49	11	205	504	754
08/26/2005	---	---	---	---	127	171	66	12	244	519	880
08/27/2005	---	---	---	---	157	80	57	3	279	355	483
08/28/2005	---	---	---	---	118	94	67	2	207	285	760
08/29/2005	---	---	---	---	109	90	29	2	113	214	1,019
08/30/2005	---	---	---	---	209	99	14	4	202	201	957
08/31/2005	---	---	---	---	70	30	14	7	178	194	717
09/01/2005	*	---	---	---	64	29	18	11	105	177	286
<hr/>											
Total:	0	0	0	0	1,773	1,276	529	113	6,709	6,902	11,283
# Days:	0	0	0	0	14	14	14	14	14	14	14
Average:	0	0	0	0	127	91	38	8	479	493	806
YTD	0	86	1,224	1,152	1,749,238	1,284,680	207,239	22,164	6,927,874	2,300,151	3,816,530

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)
08/19/2005	---	---	---	---	0	0	0	0	0	0	0
08/20/2005	---	---	---	---	0	0	0	0	0	0	0
08/21/2005 *	---	---	---	---	0	0	0	1	0	0	0
08/22/2005	---	---	---	---	0	0	0	0	0	0	0
08/23/2005	---	---	---	---	0	2	0	0	0	0	0
08/24/2005	---	---	---	---	0	0	0	0	0	0	0
08/25/2005 *	---	---	---	---	0	0	0	0	0	0	0
08/26/2005	---	---	---	---	0	0	0	0	0	0	0
08/27/2005	---	---	---	---	0	0	0	0	0	0	0
08/28/2005	---	---	---	---	0	0	0	0	0	0	0
08/29/2005	---	---	---	---	0	0	0	0	0	0	0
08/30/2005	---	---	---	---	0	0	0	1	0	0	0
08/31/2005	---	---	---	---	0	0	0	0	0	0	0
09/01/2005 *	---	---	---	---	0	0	0	0	0	0	0
<hr/>											
Total:	0	0	0	0	0	2	0	2	0	0	0
# Days:	0	0	0	0	14	14	14	14	14	14	14
Average:	0	0	0	0	0	0	0	0	0	0	0
YTD	0	0	0	110	305,063	191,700	24,369	37,195	103,714	192,563	771,264

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)
08/19/2005	---	---	---	---	0	6	2	0	0	11	0
08/20/2005	---	---	---	---	2	2	2	0	0	31	0
08/21/2005 *	---	---	---	---	0	0	0	0	0	49	0
08/22/2005	---	---	---	---	0	2	0	0	0	6	0
08/23/2005	---	---	---	---	0	0	0	0	0	3	0
08/24/2005	---	---	---	---	0	2	0	0	0	23	0
08/25/2005 *	---	---	---	---	0	0	0	0	0	11	0
08/26/2005	---	---	---	---	0	0	0	0	0	22	0
08/27/2005	---	---	---	---	0	2	0	0	0	7	0
08/28/2005	---	---	---	---	0	0	2	0	0	29	0
08/29/2005	---	---	---	---	0	0	0	0	0	21	0
08/30/2005	---	---	---	---	0	0	2	0	0	14	0
08/31/2005	---	---	---	---	0	0	0	1	0	22	0
09/01/2005 *	---	---	---	---	0	0	0	0	0	7	9
<hr/>											
Total:	0	0	0	0	2	14	8	1	0	256	9
# Days:	0	0	0	0	14	14	14	14	14	14	14
Average:	0	0	0	0	0	1	1	0	0	18	1
YTD	3,754	35,536	2,454	7,263	5,935,708	2,921,846	675,543	15,974	196,392	526,537	186,510

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)
08/19/2005	---	---	---	---	0	0	0	1	0	11	0
08/20/2005	---	---	---	---	0	0	0	4	0	0	0
08/21/2005 *	---	---	---	---	0	0	0	0	0	0	0
08/22/2005	---	---	---	---	0	0	0	4	0	0	0
08/23/2005	---	---	---	---	0	0	0	1	0	0	0
08/24/2005	---	---	---	---	0	0	0	0	0	0	0
08/25/2005 *	---	---	---	---	0	0	0	1	22	0	0
08/26/2005	---	---	---	---	0	0	0	1	0	0	0
08/27/2005	---	---	---	---	0	0	0	0	0	0	0
08/28/2005	---	---	---	---	2	0	0	0	0	0	0
08/29/2005	---	---	---	---	2	0	0	0	0	0	0
08/30/2005	---	---	---	---	0	0	0	3	0	0	0
08/31/2005	---	---	---	---	0	0	0	3	0	7	0
09/01/2005 *	---	---	---	---	0	0	0	1	0	0	0
Total:	0	0	0	0	4	0	0	19	22	18	0
# Days:	0	0	0	0	14	14	14	14	14	14	14
Average:	0	0	0	0	0	0	0	1	2	1	0
YTD	115	0	0	263	38,453	41,363	8,216	1,991	103,671	84,473	41,903

* 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:

9/2/05 10:05 AM

08/20/05 TO 09/02/05

		Species						
Site	Data	CH0	CH1	CO	SO	ST	Grand Total	
LGR	Sum of NumberCollected	914		1		2	1	918
	Sum of NumberBarged	0		0		0	0	0
	Sum of NumberBypassed	1		0		0	0	1
	Sum of Numbertrucked	910		1		2	1	914
	Sum of SampleMorts	3		0		0	0	3
	Sum of FacilityMorts	0		0		0	0	0
	Sum of ResearchMorts	0		0		0	0	0
	Sum of TotalProjectMorts	3		0		0	0	3
LGS	Sum of NumberCollected	795			1		8	804
	Sum of NumberBarged	0			0		0	0
	Sum of NumberBypassed	2			0		0	2
	Sum of Numbertrucked	788			1		8	797
	Sum of SampleMorts	4			0		0	4
	Sum of FacilityMorts	1			0		0	1
	Sum of ResearchMorts	0			0		0	0
	Sum of TotalProjectMorts	5			0		0	5
LMN	Sum of NumberCollected	277		1			4	282
	Sum of NumberBarged	0		0			0	0
	Sum of NumberBypassed	10		0			0	10
	Sum of Numbertrucked	263		1			4	268
	Sum of SampleMorts	4		0			0	4
	Sum of FacilityMorts	0		0			0	0
	Sum of ResearchMorts	0		0			0	0
	Sum of TotalProjectMorts	4		0			0	4
MCN	Sum of NumberCollected	2,506				8		2,514
	Sum of NumberBarged	0				0		0
	Sum of NumberBypassed	0				0		0
	Sum of Numbertrucked	2,475				8		2,483
	Sum of SampleMorts	8				0		8
	Sum of FacilityMorts	23				0		23
	Sum of ResearchMorts	0				0		0
	Sum of TotalProjectMorts	31				0		31
Total Sum of NumberCollected		4,492		2	1	10	13	4,518
Total Sum of NumberBarged		0		0	0	0	0	0
Total Sum of NumberBypassed		13		0	0	0	0	13
Total Sum of Numbertrucked		4,436		2	1	10	13	4,462
Total Sum of SampleMorts		19		0	0	0	0	19
Total Sum of FacilityMorts		24		0	0	0	0	24
Total Sum of ResearchMorts		0		0	0	0	0	0
Total Sum of TotalProjectMorts		43		0	0	0	0	43

YTD Transportation Summary

Source: Fish Passage Center

Updated:

9/2/05 10:05 AM

TO: 09/02/05

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	1,575,342	5,537,386	286,009	31,629	5,590,781	13,021,147
	Sum of NumberBarged	1,546,272	5,235,734	257,640	30,286	5,094,008	12,163,940
	Sum of NumberBypassed	13,114	278,605	26,286	490	448,422	766,917
	Sum of NumberTrucked	3,409	8,885	873	495	43,018	56,680
	Sum of SampleMorts	456	453	16	16	71	1,012
	Sum of FacilityMorts	11,998	13,606	1,194	342	5,260	32,400
	Sum of ResearchMorts	93	103	0	0	2	198
	Sum of TotalProjectMorts	12,547	14,162	1,210	358	5,333	33,610
LGS	Sum of NumberCollected	1,194,612	2,451,001	185,964	38,766	2,857,084	6,727,427
	Sum of NumberBarged	1,135,442	2,015,572	151,226	37,716	2,276,701	5,616,657
	Sum of NumberBypassed	50,483	428,573	34,636	938	571,464	1,086,094
	Sum of NumberTrucked	5,286	252	16	47	449	6,050
	Sum of SampleMorts	239	128	12	6	74	459
	Sum of FacilityMorts	3,162	6,456	75	59	8,396	18,148
	Sum of ResearchMorts	0	20	0	0	0	20
	Sum of TotalProjectMorts	3,401	6,604	87	65	8,470	18,627
LMN	Sum of NumberCollected	177,231	670,863	21,561	7,344	614,128	1,491,127
	Sum of NumberBarged	168,777	512,012	17,036	7,156	456,619	1,161,600
	Sum of NumberBypassed	7,510	145,571	4,521	99	154,901	312,602
	Sum of NumberTrucked	492	12,716	2	60	2,254	15,524
	Sum of SampleMorts	137	40	0	3	26	206
	Sum of FacilityMorts	315	524	2	26	328	1,195
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	452	564	2	29	354	1,401
MCN	Sum of NumberCollected	4,222,574	722,362	61,227	60,078	119,415	5,185,656
	Sum of NumberBarged	2,877,055	17,125	931	1,075	5,462	2,901,648
	Sum of NumberBypassed	1,295,191	702,217	60,102	58,589	113,558	2,229,657
	Sum of NumberTrucked	24,757	0	2	24	4	24,787
	Sum of SampleMorts	817	120	8	18	8	971
	Sum of FacilityMorts	24,620	2,824	178	360	380	28,362
	Sum of ResearchMorts	134	76	6	12	3	231
	Sum of TotalProjectMorts	25,571	3,020	192	390	391	29,564
Total Sum of NumberCollected		7,169,759	9,381,612	554,761	137,817	9,181,408	26,425,357
Total Sum of NumberBarged		5,727,546	7,780,443	426,833	76,233	7,832,790	21,843,845
Total Sum of NumberBypassed		1,366,298	1,554,966	125,545	60,116	1,288,345	4,395,270
Total Sum of NumberTrucked		33,944	21,853	893	626	45,725	103,041
Total Sum of SampleMorts		1,649	741	36	43	179	2,648
Total Sum of FacilityMorts		40,095	23,410	1,449	787	14,364	80,105
Total Sum of ResearchMorts		227	199	6	12	5	449
Total Sum of TotalProjectMorts		41,971	24,350	1,491	842	14,548	83,202

Cumulative Adult Passage at Mainstem Dams Through: 09/01

DAM	Spring Chinook						Summer Chinook						Fall Chinook					
	2005		2004		10-Yr Avg.		2005		2004		10-Yr Avg.		2005		2004		10-Yr Avg.	
	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack
BON	74,038	4,288	170,152	8,885	145,297	8,221	78,373	4,467	92,143	12,889	54,750	7,484	46,519	2,583	118,826	7,415	89,089	6,903
TDA	60,956	3,209	130,240	7,717	99,119	5,946	69,436	3,481	79,495	8,430	47,296	5,446	24,742	1,575	42,321	3,998	37,601	3,300
JDA	55,877	2,715	112,153	6,367	82,666	4,703	63,589	5,358	72,518	10,542	44,153	5,186	13,153	1,444	27,174	3,212	22,261	2,301
MCN	51,855	3,201	107,497	7,682	76,092	4,941	63,780	3,081	65,457	8,760	43,906	5,144	9,491	765	11,332	1,486	13,160	1,427
IHR	28,039	1,267	77,106	4,646	51,680	3,159	8,837	983	13,173	3,012	10,235	1,807	1,161	228	1,074	302	1,016	141
LMN	25,933	1,002	71,578	3,785	49,507	2,979	8,347	802	10,593	2,196	9,755	1,500	747	97	473	89	654	116
LGS	23,995	923	62,458	3,404	47,589	3,042	6,970	974	9,304	2,263	8,528	1,742	534	66	293	64	425	52
LGR	26,028	1,258	70,742	4,482	47,410	3,274	6,736	1,078	8,767	2,510	8,638	1,901	237	63	219	102	280	51
PRD	14,148	515	13,521	1,020	15,454	477	62,172	1,900	67,060	5,613	39,202	1,885	2,785	20	2,410	405	4,470	451
RIS	11,908	504	10,918	958	12,149	699	54,033	2,443	62,311	4,834	36,079	4,459	1,993	209	1,781	358	1,884	520
RRH	4,568	417	4,365	734	4,426	242	42,896	2,271	41,532	8,093	26,362	2,921	1,256	154	1,285	295	1,430	446
WEL	4,897	99	4,615	178	3,006	190	31,015	692	31,474	1,373	19,609	1,386	202	21	641	51	276	59
WFA	35,520	1,181	96,319	757	n/a	n/a	---	---	---	---	---	---	0	0	96	4	n/a	n/a

DAM	Coho						Sockeye			Steelhead			
	2005		2004		10-Yr Avg.		10-Yr		10-Yr			Wild	
	Adult	Jack	Adult	Jack	Adult	Jack	2005	2004	Avg.	2005	2004	Avg.	2005
BON	3,321	324	13,598	739	8,649	602	72,434	123,283	53,716	207,290	207,751	223,263	65,871
TDA	382	65	790	76	648	97	65,009	107,465	44,479	73,165	66,594	94,767	30,402
JDA	309	32	314	75	253	34	69,071	113,489	48,143	57,048	57,890	66,532	20,964
MCN	78	3	14	14	46	3	63,535	89,703	41,398	42,841	33,052	47,753	15,461
IHR	0	7	0	0	2	0	18	91	24	19,550	20,942	26,375	5,060
LMN	0	0	2	0	0	0	17	80	28	15,586	13,466	21,463	4,528
LGS	0	0	0	0	0	0	14	80	32	9,756	9,770	14,670	3,036
LGR	0	0	0	0	0	0	17	113	32	10,948	14,082	15,480	3,752
PRD	126	2	3	3	5	0	74,671	124,941	52,074	5,477	6,628	5,895	n/a
RIS	9	0	20	0	1	0	71,193	106,636	47,387	4,979	6,022	4,853	2,986
RRH	0	0	3	0	1	0	55,530	81,303	32,394	3,615	4,981	3,454	1,993
WEL	0	0	0	0	0	0	54,591	77,960	31,621	1,948	2,755	2,152	928
WFA	1	0	1	0	n/a	n/a	0	0	n/a	19,206	43,814	n/a	n/a

WFA is through 08/28; PRD is through 08/30 and RIS, RRH, WEL are through 08/31.

* Coho counts at PRD are incorrect and have been excluded. PRD is missing 8/12, 8/13, 8/14, 8/23.

Bonneville is missing left (Oregon) shore counts for 09/01. On July 2 a shad was seen at RRH.

*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: 09/02/05

BON counts from January 1, 2005 to March 14, 2005 (our traditional counts begin March 15):

Chinook Adult	Chinook Jack	Steelhead	Wild Steelhead
15	0	256	-74

Run Year counts (June 1, 2005 to May 31, 2006) for Lower Granite:

