



Fish Passage Center

# Weekly Report #05 - 25

August 26, 2005

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**Highlights:**

- River flows at Lower Granite Dam have averaged 34.6 Kcfs between June 21-August 25 and 19.3 Kcfs last week.
- River flows at McNary Dam have averaged 168.6 Kcfs July 1st through August 25th and 139.9 Kcfs last week.
- 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 are implementing the Biological Opinion summer spill program.

**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 with a flow objective of 50 Kcfs. River flows at Lower Granite Dam have averaged 34.6 Kcfs between June 21-August 25 and 19.3 Kcfs last week.

The summer flow objective period began on July 1st, 2005 at McNary Dam with a flow objective of 200 Kcfs. River flows at McNary

Dam have averaged 168.6 Kcfs July 1st through August 25th and 139.9 Kcfs last week.

Grand Coulee Reservoir is currently at an elevation of 1280 feet (August 25th, 2005 midnight) and has drafted 1.7 feet in the last week. Grand Coulee is projected to draft to elevation 1278 feet by the end of August.

The Libby Reservoir is currently at an elevation of 2441.0 feet (8-25-05) and drafted 2.7 feet last week. Outflows at Libby are currently 16 Kcfs. Libby is projected to draft to elevation 2439 feet by the end of August.

Hungry Horse is currently at an elevation of 3541.7 feet (August 25th, 2005 midnight) and has drafted 2.9 feet in the last week. Outflows at Hungry Horse are currently 5.4 Kcfs. Hungry Horse is projected to draft to elevation 3540 feet by the end of August.

Dworshak is currently an elevation of 1540.74 feet (August 25th, 2005 midnight). Outflows at Dworshak have been decreased to 7.1 Kcfs for flow and temperature augmentation in the lower Snake River. Dworshak is projected to draft to elevation 1535 feet by the end of August and 1520 feet by mid September.

The Brownlee Reservoir was at an elevation of 2052.95 feet on August 25th, 2005 with outflows at Hells Canyon ranging between 8.0 and 8.5 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 in excess of flow necessary to operate one unit at each Snake River project at the low end of the 1% efficiency range is to occur on a 24-hour basis. Spill started at Lower Granite, Little Goose, Lower Monumental, and Ice Harbor dams on June 20. Spill began at McNary Dam on July 1 and will end at midnight on August 31, 2005. Spill is being provided in such a way as to meet the court order and at the same time accommodate planned research projects. Spill will be limited when necessary so as not exceed the state water quality waiver standards.

Spill at Lower Granite Dam, Lower Monumental and Ice Harbor Dams is being 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 42% of daily average flows at Lower Granite, 39% of daily average flows at Little Goose, 48% of daily average flows at Lower Monumental and 52% 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 are in place. Spill at McNary Dam averaged 60% of daily average flow. Spill at John Day Dam averaged 30% of daily average flow. Spill at The Dalles Dam is being 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 64% of average daily flow over the past week.

No fish were observed with minor signs of gas bubble trauma in the monitoring program over the past week in the hydrosystem.

**Smolt Monitoring:** Passage indices for subyearling Chinook were lower this week at most SMP sites. Lower Granite Dam and Lower Monumental Dam both showed small increases in subyearling indices this past week.

At Lower Granite Dam in the Lower Snake River the subyearling Chinook average passage index rose to 140 per day this week compared to 130 the previous week. In the past two weeks only 6 clipped subyearling chinook have been collected in the sample compared to 850 unclipped fish, indicating that the run is made up of mostly unmarked wild fish. Based on PIT-tagged Big Canyon Creek hatchery subyearling fall Chinook (surrogate for wild Clearwater fish) the collection efficiency at Lower Granite for subyearlings is approximately 31%, so that the index is likely below the true numbers of fish passing in spill. Small numbers of PIT-tag detections from Clearwater River tagging have continued over the past few weeks. Of the

BCCAP release 106 have been detected at Lower Granite in August, with 20 detections in the last week. While only 3 PIT-tagged wild Clearwater subyearling Chinook have been detected this month.

At Little Goose and Lower Monumental dams the subyearling Chinook indices were down with the index at Little Goose falling to 100 per day average this week while the index went from 30 to 40 per day this week at Lower Monumental Dam.

In the Mid-Columbia, at Rock Island Dam, subyearling indices were down this week, with the weekly average index at 10 compared to 20 last week.

At McNary Dam indices for subyearlings were also lower this week. The average index fell to 770 per day compared to 1,400 per day last week. We estimated collection efficiency, based on PIT-tagged subyearlings at approximately 20% compared to 50% during summer operations without spill.

John Day Dam and Bonneville Dam also saw indices decline this past week. At John Day Dam the index for subyearling chinook averaged 700 this week compared to 2,200 last week, while at Bonneville Dam the subyearling index averaged nearly 900 this past week down from 1,100 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.**

Hatchery Zone Release Report

	Thursday 18-Aug-2005				
	Snake River	Md-Columbia	Lower Columbia	Below Bonneville	Total Releases
Fall Chinook	4,907,703	12,449,054	21,567,139	20,773,697	59,697,593
Spring Chinook	9,440,350	5,158,571	5,157,183	10,957,070	30,713,174
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			116,832	1,765,291	1,882,123
Total	26,609,175	24,627,412	32,514,544	46,245,119	129,996,250

**Adult Fish Passage** -Water temperatures in the Columbia River were near 70 F at most projects but still slightly reduced from the previous week. Numbers of fall Chinook salmon at Bonneville Dam turned around from the preceding week with a low count of only 350 on August 19 and then rose to the high count for the week on August 25th of 3,226. The daily average count for the week ending August 25 was 1,778 with the season total of 18,861 adult Chinook salmon; about 112.7% and 64.8% of the respective 2004 and 10-year average. Tule fall Chinook are just beginning to pass the Bonneville Project; normally they begin about mid-August and complete their journey near the end of September. The Tule fall Chinook are destined for Spring Creek NFH and Bonneville pool tributaries such as the Klickitat, Big White Salmon, and lower Wind Rivers. The FPC website has a link to the passage of Tule and Bright fall Chinook at [http://www.fpc.org/adultsalmon/adulthistory/bon\\_tule\\_brights2005.html](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. Upriver Bright fall Chinook that have passed Bonneville Dam are at a pace where the 2005 counts are presently ahead of the 2004 counts, but below the 10-year average counts at these upriver dams. Expectations remain that the fall Chinook Run should again produce excellent numbers of Bright and Tule fall Chinook this year. The normal peak passage for the fall Chinook at Bonneville Dam occurs during the first two 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 ranged between 1,883 and 5,307 through the week with the average count of 3,423 per day for the week ending August 25, almost identical with the previous week's average. This year's total of 190,990 now exceeds the 2004 count of 177,164 but fell slightly below the 10-year average of 196,853 through August 25th. The larger-sized B-Run steelhead should begin to increase at Bonneville Dam as they normally start arriving in late August and continue through the end of the Run cycle. The B-Run steelhead are primarily destined for the Clearwater River basin. 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 are finally beginning to move in greater numbers out of the Bonneville pool this week with the daily counts at the Dalles Dam above 2,000 the final two days of the counting week. The cumulative steelhead count through August 25 is 60,834, with the count differential between Bonneville and McNary Dam about 130,000 or approximately 32% of the steelhead counted at Bonneville have passed The Dalles Dam. At McNary Dam, 34,368 steelhead have been counted to date with about 15,200 counted into the Snake River (Ice Harbor) and 5,000 counted into the Mid-Columbia River at Priest Rapids Dam.

The daily counts of coho salmon at Bonneville Dam increased through the week with the cumulative count up to 1,033 adult fish through August 25. This total was greater than the 2004 count and less than the 10-year average, however, passage numbers should increase through August and September and 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
08/12/05	116.6	0.0	110.1	0.0	112.0	8.0	111.0	8.9	110.3	0.0	106.1	1.7	99.5	0.9
08/13/05	79.0	0.2	82.0	0.0	82.8	7.0	83.2	8.2	85.0	0.0	93.4	1.7	94.2	0.9
08/14/05	68.8	0.2	74.6	0.0	78.4	6.6	76.0	7.2	77.2	0.0	77.6	1.8	72.2	1.0
08/15/05	126.0	0.1	117.0	0.0	117.6	7.8	108.9	8.7	106.4	0.0	103.1	1.8	98.8	0.9
08/16/05	117.3	0.1	116.5	0.0	120.4	8.2	118.9	0.0	112.8	0.0	126.8	2.0	125.2	1.0
08/17/05	118.4	0.1	124.3	0.0	126.4	8.2	121.5	0.0	121.1	0.0	124.2	1.8	121.4	1.0
08/18/05	124.7	0.1	121.1	0.0	123.8	8.1	119.7	0.0	120.2	0.0	124.3	1.7	121.5	1.1
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

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

Date	Dworshak		Brownlee Canyon		Lower Granite		Little Goose		Lower Monumental		Ice Harbor	
	Flow	Spill	Inflow	Outflow	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill
08/12/05	10.1	0.0	8.2	8.5	23.6	11.5	23.8	9.9	21.7	9.3	21.6	10.8
08/13/05	9.5	0.0	7.5	8.3	23.5	11.5	25.5	9.6	22.3	9.8	23.5	13.6
08/14/05	10.1	0.0	8.4	8.1	23.4	11.5	25.4	9.6	24.6	12.5	23.8	13.8
08/15/05	10.1	0.0	8.0	8.1	23.2	11.2	24.7	8.9	23.1	10.9	24.5	13.4
08/16/05	10.1	0.0	8.7	8.0	20.8	10.0	21.9	7.2	21.1	8.7	21.5	11.4
08/17/05	9.8	0.0	7.2	8.2	22.3	13.4	22.5	7.8	21.1	8.7	19.8	9.7
08/18/05	7.1	0.0	8.0	8.2	23.0	11.0	26.0	10.1	23.9	11.6	26.2	16.4
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	---	---	19.8	8.1	22.6	8.3	20.9	8.6	20.3	13.9

**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		
08/12/05	150.0	94.3	125.5	38.4	123.2	48.8	146.2	91.8	---	42.9
08/13/05	137.5	81.7	133.7	40.5	129.6	50.2	132.6	78.9	0.0	42.2
08/14/05	122.2	67.3	107.2	31.6	102.1	39.4	124.3	78.7	0.0	34.1
08/15/05	127.9	73.5	118.9	35.5	119.9	45.7	129.2	75.2	1.9	40.6
08/16/05	145.9	91.7	127.3	37.8	120.2	45.6	123.8	75.5	0.9	35.9
08/17/05	157.0	102.4	144.0	43.3	142.9	54.3	140.4	83.0	3.0	42.9
08/18/05	158.2	103.5	143.2	42.2	138.0	53.7	154.2	87.8	2.9	52.0
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

## 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
<b>Little Goose Dam</b>											
	08/18/05	Chinook + Steelhead	7	0	0	0.00%	0.00%	0	0	0	0
	08/21/05	Chinook + Steelhead	1	0	0	0.00%	0.00%	0	0	0	0
<b>Lower Monumental Dam</b>											
	08/19/05	Chinook + Steelhead	5	0	0	0.00%	0.00%	0	0	0	0
	08/22/05	Chinook + Steelhead	0	0	0	0.00%	0.00%	0	0	0	0
<b>Bonneville Dam</b>											
	08/16/05	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	08/20/05	Chinook + Steelhead	85	0	0	0.00%	0.00%	0	0	0	0
	08/23/05	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
<b>McNary Dam</b>											
	08/18/05	Chinook + Steelhead	7	0	0	0.00%	0.00%	0	0	0	0
	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

## 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>#</u>	<u>24 h</u>	<u>12 h</u>		<u>#</u>	<u>24 h</u>	<u>12 h</u>		<u>#</u>	<u>24 h</u>	<u>12 h</u>		<u>#</u>	<u>24 h</u>	<u>12 h</u>		<u>#</u>
	<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>	<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>	<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>	<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>	<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>
8/12	---	---	---	0	110	110	110	24	108	109	109	23	107	108	111	24	107	107	107	11
8/13	---	---	---	0	110	110	111	24	107	108	109	24	106	107	110	24	---	---	---	0
8/14	---	---	---	0	110	111	112	24	108	108	109	24	105	106	107	24	---	---	---	0
8/15	---	---	---	0	110	110	111	24	108	108	109	24	107	107	111	24	107	107	107	24
8/16	---	---	---	0	110	110	111	24	108	109	109	24	106	107	107	24	107	108	108	24
8/17	---	---	---	0	109	110	110	24	109	109	109	24	106	107	110	24	107	107	108	24
8/18	---	---	---	0	107	107	107	24	108	108	109	24	106	107	110	24	106	106	106	23
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

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>#</u>	<u>24 h</u>	<u>12 h</u>		<u>#</u>	<u>24 h</u>	<u>12 h</u>		<u>#</u>	<u>24 h</u>	<u>12 h</u>		<u>#</u>	<u>24 h</u>	<u>12 h</u>		<u>#</u>
	<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>	<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>	<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>	<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>	<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>
8/12	107	107	109	9	107	107	108	23	109	110	110	23	109	109	110	24	110	110	110	24
8/13	---	---	---	0	106	107	108	24	108	108	109	24	108	109	109	24	110	111	126	24
8/14	---	---	---	0	107	108	108	24	108	109	109	24	109	109	110	24	109	110	110	24
8/15	107	107	107	23	107	108	108	24	109	109	110	24	109	109	109	24	109	109	110	24
8/16	107	108	108	24	107	107	108	23	109	109	110	23	109	109	109	24	109	109	109	24
8/17	107	107	108	24	106	107	107	24	108	109	109	24	108	108	109	24	108	108	109	24
8/18	106	106	107	23	106	106	107	24	108	108	109	24	107	107	107	24	107	107	108	24
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

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>#</u>	<u>24 h</u>	<u>12 h</u>		<u>#</u>	<u>24 h</u>	<u>12 h</u>		<u>#</u>	<u>24 h</u>	<u>12 h</u>		<u>#</u>	<u>24 h</u>	<u>12 h</u>		<u>#</u>
	<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>	<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>	<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>	<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>	<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>
8/12	109	110	111	24	110	111	112	24	---	---	---	0	---	---	---	0	---	---	---	0
8/13	109	110	110	24	110	111	111	24	---	---	---	0	---	---	---	0	---	---	---	0
8/14	110	110	110	24	111	111	111	24	---	---	---	0	---	---	---	0	---	---	---	0
8/15	109	110	110	24	111	111	111	24	---	---	---	0	---	---	---	0	---	---	---	0
8/16	109	109	110	24	110	110	111	24	---	---	---	0	---	---	---	0	---	---	---	0
8/17	108	108	109	24	109	109	110	24	---	---	---	0	---	---	---	0	---	---	---	0
8/18	107	108	108	24	108	109	109	24	---	---	---	0	---	---	---	0	---	---	---	0
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

## 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>24 h</u>		<u>12 h</u>		#	<u>24 h</u>		<u>12 h</u>		#	<u>24 h</u>		<u>12 h</u>		#
	<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>	
8/12	---	---	---	0	109	109	110	13	99	100	100	24	101	102	103	24	101	102	104	24
8/13	---	---	---	0	105	105	107	24	99	100	101	24	101	102	105	24	101	102	104	24
8/14	---	---	---	0	105	105	105	3	99	100	100	24	100	102	103	24	101	102	104	24
8/15	---	---	---	0	106	107	107	24	99	100	100	24	100	102	103	24	101	102	103	24
8/16	---	---	---	0	106	107	107	24	99	100	100	24	101	102	103	24	101	102	103	24
8/17	---	---	---	0	104	105	105	24	99	99	99	24	100	101	102	24	99	100	101	24
8/18	---	---	---	0	104	105	105	24	99	100	100	24	101	103	104	24	99	101	102	24
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

### 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>24 h</u>		<u>12 h</u>		#	<u>24 h</u>		<u>12 h</u>		#	<u>24 h</u>		<u>12 h</u>		#
	<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>	
8/12	102	105	107	24	109	110	111	24	112	112	113	24	107	107	108	24	109	110	112	24
8/13	103	105	107	24	105	106	107	24	112	112	112	24	105	105	106	24	109	110	113	24
8/14	102	105	107	24	105	105	106	3	111	111	111	3	105	106	106	24	109	111	113	24
8/15	102	105	107	24	113	114	115	24	111	112	112	24	107	107	107	24	109	110	111	24
8/16	102	105	106	24	111	112	114	24	112	113	116	24	106	107	107	24	108	109	110	24
8/17	101	102	104	24	105	106	108	24	112	114	115	24	107	107	107	24	108	109	114	24
8/18	102	105	107	24	106	106	107	24	112	112	112	24	105	105	106	24	110	112	114	24
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

### 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>24 h</u>		<u>12 h</u>		#	<u>24 h</u>		<u>12 h</u>		#	<u>24 h</u>		<u>12 h</u>		#
	<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>	
8/12	108	108	109	24	111	112	112	24	111	112	112	24	111	112	113	24	107	109	110	24
8/13	105	105	106	24	111	112	113	24	108	108	109	24	110	111	112	24	106	107	108	24
8/14	105	106	106	24	113	115	117	24	110	110	110	24	110	111	111	24	106	106	107	3
8/15	106	106	106	24	112	113	114	24	108	109	109	24	110	111	112	24	109	111	112	24
8/16	106	107	107	24	110	110	111	24	108	108	109	24	110	111	111	24	110	112	113	24
8/17	106	107	107	24	110	110	112	24	108	109	111	24	110	110	111	24	107	108	110	24
8/18	105	105	106	24	113	113	114	24	107	107	108	24	112	113	114	24	106	108	109	24
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



## 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	High	hr	Avg	AVG	High	hr
8/12	106	107	107	24	116	117	117	24	104	104	105	23	114	115	115	24	105	105	105	23
8/13	105	105	106	24	115	116	116	24	104	104	107	23	115	115	115	24	106	107	107	23
8/14	105	105	106	3	115	115	115	3	105	105	106	23	114	115	115	24	108	108	109	23
8/15	107	107	108	24	115	116	117	24	104	104	104	23	114	115	116	24	108	108	108	23
8/16	107	107	107	24	116	117	117	24	103	103	104	23	114	115	118	24	106	106	107	23
8/17	105	106	106	24	116	116	117	24	103	103	103	23	114	115	115	24	103	104	104	23
8/18	105	106	108	24	116	117	117	24	102	103	103	23	114	115	115	24	104	105	105	23
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

### Total Dissolved Gas Saturation Data at Lower Columbia River Sites

Date	<u>The Dalles Dnst</u>			<u>Bonneville</u>			<u>Warrendale</u>			<u>CamasWashougal</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>AVG</u>	<u>High</u>	#	
	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	AVG	High	hr
8/12	111	112	113	24	103	103	104	23	115	117	118	23	111	114	116	24	115	115	117	17
8/13	112	113	114	24	103	104	104	23	114	114	115	23	110	111	113	24	115	115	117	17
8/14	112	113	114	24	105	106	107	23	115	115	116	23	109	111	113	24	114	115	115	17
8/15	112	112	113	24	108	108	109	23	115	115	116	23	113	114	114	24	114	114	115	17
8/16	111	111	112	24	106	107	108	23	113	114	114	23	110	110	112	24	114	114	115	17
8/17	110	111	111	24	103	104	105	23	114	114	115	23	110	111	112	24	115	116	119	17
8/18	111	112	112	24	104	104	105	23	115	116	118	23	112	114	115	24	115	115	117	17
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

## Two-Week Summary of Passage Indices

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

this means that one or more of the sites on this date had an incomplete or biased sample.

For clip information see: [Daily Catch Report](#)

For sockeye and yearling chinook (Snake only) race information see: [Current Passage Index Query](#)

If the text appears garbled, please hit the refresh button on your browser

NOTE for 2002 Lower Monumental Data: Due to the non-standard operation of Lower Monumental this year, the passage index reliability is in question and is being looked into.

Fall (post SMP season) trapping at the Imnaha River Fish Trap (IMN) is funded by the Lower Snake River Compensation Program (LSRCP)

<b>COMBINED YEARLING CHINOOK</b>											
Date	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)
08/12/2005	---	---	---	---	2	0	0	0	0	0	0
08/13/2005	---	---	---	---	0	0	0	0	0	0	0
08/14/2005 *	---	---	---	---	0	0	0	0	0	0	0
08/15/2005 *	---	---	---	---	0	0	4	0	0	0	0
08/16/2005	---	---	---	---	0	0	0	0	0	0	0
08/17/2005	---	---	---	---	0	0	0	0	0	0	0
08/18/2005	---	---	---	---	0	0	0	0	0	0	0
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
08/26/2005	---	---	---	---	---	---	0	---	---	0	---
<b>Total:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b># Days:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>14</b>	<b>14</b>	<b>15</b>	<b>14</b>
<b>Average:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>YTD</b>	<b>43,641</b>	<b>42,830</b>	<b>5,792</b>	<b>1,810</b>	<b>5,673,861</b>	<b>2,477,186</b>	<b>706,771</b>	<b>14,797</b>	<b>1,226,429</b>	<b>1,409,471</b>	<b>1,527,240</b>

<b>COMBINED SUBYEARLING CHINOOK</b>											
Date	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)
08/12/2005	---	---	---	---	150	64	7	26	2,832	2,778	1,733
08/13/2005	---	---	---	---	124	181	17	26	2,923	2,864	1,104
08/14/2005 *	---	---	---	---	152	194	19	25	1,685	2,088	617
08/15/2005 *	---	---	---	---	118	282	22	7	431	1,827	537
08/16/2005	---	---	---	---	201	73	23	15	781	2,253	1,216
08/17/2005	---	---	---	---	94	36	21	20	645	2,409	1,088
08/18/2005	---	---	---	---	158	13	102	21	691	1,099	1,344
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 *	---	---	---	---	---	111	49	11	205	504	754
08/26/2005	---	---	---	---	---	---	66	---	---	519	---
<b>Total:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,812</b>	<b>1,526</b>	<b>541</b>	<b>212</b>	<b>15,369</b>	<b>20,794</b>	<b>13,820</b>
<b># Days:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>14</b>	<b>14</b>	<b>15</b>	<b>14</b>
<b>Average:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>139</b>	<b>109</b>	<b>36</b>	<b>15</b>	<b>1,098</b>	<b>1,386</b>	<b>987</b>
<b>YTD</b>	<b>0</b>	<b>86</b>	<b>1,224</b>	<b>1,152</b>	<b>1,748,280</b>	<b>1,285,827</b>	<b>207,040</b>	<b>22,123</b>	<b>6,926,546</b>	<b>2,298,725</b>	<b>3,811,428</b>

## 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)
08/12/2005	---	---	---	---	0	2	0	0	0	0	0
08/13/2005	---	---	---	---	0	0	0	0	0	0	0
08/14/2005 *	---	---	---	---	0	0	0	0	0	0	12
08/15/2005 *	---	---	---	---	0	0	2	0	0	0	0
08/16/2005	---	---	---	---	0	0	0	0	0	0	0
08/17/2005	---	---	---	---	0	0	0	0	0	19	0
08/18/2005	---	---	---	---	0	0	0	1	0	0	0
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
08/26/2005	---	---	---	---	---	---	0	---	---	0	---
<hr/>											
<b>Total:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>2</b>	<b>2</b>	<b>0</b>	<b>19</b>	<b>12</b>
<b># Days:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>14</b>	<b>14</b>	<b>15</b>	<b>14</b>
<b>Average:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>
<b>YTD</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>110</b>	<b>305,063</b>	<b>191,770</b>	<b>24,369</b>	<b>37,194</b>	<b>103,714</b>	<b>192,563</b>	<b>771,264</b>

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)
08/12/2005	---	---	---	---	0	0	0	0	0	0	0
08/13/2005	---	---	---	---	0	3	2	1	0	0	12
08/14/2005 *	---	---	---	---	0	2	0	0	0	0	0
08/15/2005 *	---	---	---	---	0	6	0	0	0	0	0
08/16/2005	---	---	---	---	2	0	2	0	0	7	0
08/17/2005	---	---	---	---	0	2	2	0	0	0	0
08/18/2005	---	---	---	---	0	0	0	0	0	33	0
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	11	0
08/26/2005	---	---	---	---	---	---	0	---	---	22	---
<hr/>											
<b>Total:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>25</b>	<b>10</b>	<b>1</b>	<b>0</b>	<b>196</b>	<b>12</b>
<b># Days:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>14</b>	<b>14</b>	<b>15</b>	<b>14</b>
<b>Average:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>13</b>	<b>1</b>
<b>YTD</b>	<b>3,754</b>	<b>35,536</b>	<b>2,454</b>	<b>7,263</b>	<b>5,935,708</b>	<b>2,922,243</b>	<b>675,539</b>	<b>15,973</b>	<b>196,392</b>	<b>526,437</b>	<b>186,501</b>

## Two-Week Summary of Passage Indices

COMBINED SOCKEYE											
	WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2
Date	(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)
08/12/2005	---	---	---	---	0	0	0	0	0	0	0
08/13/2005	---	---	---	---	2	0	0	1	0	0	0
08/14/2005 *	---	---	---	---	0	0	0	0	0	0	0
08/15/2005 *	---	---	---	---	0	0	0	1	0	0	0
08/16/2005	---	---	---	---	2	0	0	0	0	21	0
08/17/2005	---	---	---	---	2	0	0	3	0	0	0
08/18/2005	---	---	---	---	0	0	0	0	0	14	0
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	1	22	0	0
08/26/2005	---	---	---	---	---	---	0	---	---	0	---
<hr/>											
<b>Total:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>16</b>	<b>22</b>	<b>46</b>	<b>0</b>
<b># Days:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>14</b>	<b>14</b>	<b>15</b>	<b>14</b>
<b>Average:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>0</b>
<b>YTD</b>	<b>115</b>	<b>0</b>	<b>0</b>	<b>263</b>	<b>38,449</b>	<b>41,458</b>	<b>8,216</b>	<b>1,983</b>	<b>103,671</b>	<b>84,466</b>	<b>41,903</b>

\* 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:

8/26/05 9:28 AM

**08/13/05 TO 08/26/05**

		Species						
Site	Data	CH0	CH1	CO	SO	ST	Grand Total	
<b>LGR</b>	Sum of NumberCollected	928		2		3	2	935
	Sum of NumberBarged	0		0		0	0	0
	Sum of NumberBypassed	1		0		0	0	1
	Sum of Numbertrucked	1,020		2		4	2	1,028
	Sum of SampleMorts	4		0		0	0	4
	Sum of FacilityMorts	0		0		0	0	0
	Sum of ResearchMorts	0		0		0	0	0
	Sum of TotalProjectMorts	4		0		0	0	4
<b>LGS</b>	Sum of NumberCollected	937			2		15	954
	Sum of NumberBarged	0			0		0	0
	Sum of NumberBypassed	1			0		0	1
	Sum of Numbertrucked	941			2		21	964
	Sum of SampleMorts	7			0		0	7
	Sum of FacilityMorts	1			0		1	2
	Sum of ResearchMorts	0			0		0	0
	Sum of TotalProjectMorts	8			0		1	9
<b>LMN</b>	Sum of NumberCollected	284		3	1		5	293
	Sum of NumberBarged	0		0	0		0	0
	Sum of NumberBypassed	6		0	0		0	6
	Sum of Numbertrucked	282		3	1		5	291
	Sum of SampleMorts	1		0	0		0	1
	Sum of FacilityMorts	0		0	0		0	0
	Sum of ResearchMorts	0		0	0		0	0
	Sum of TotalProjectMorts	1		0	0		0	1
<b>MCN</b>	Sum of NumberCollected	5,601				8		5,609
	Sum of NumberBarged	0				0		0
	Sum of NumberBypassed	0				0		0
	Sum of Numbertrucked	5,965				8		5,973
	Sum of SampleMorts	25				0		25
	Sum of FacilityMorts	70				0		70
	Sum of ResearchMorts	0				0		0
	Sum of TotalProjectMorts	95				0		95
Total Sum of NumberCollected		7,750		5	3	11	22	7,791
Total Sum of NumberBarged		0		0	0	0	0	0
Total Sum of NumberBypassed		8		0	0	0	0	8
Total Sum of Numbertrucked		8,208		5	3	12	28	8,256
Total Sum of SampleMorts		37		0	0	0	0	37
Total Sum of FacilityMorts		71		0	0	0	1	72
Total Sum of ResearchMorts		0		0	0	0	0	0
Total Sum of TotalProjectMorts		108		0	0	0	1	109

**YTD Transportation Summary**

Source: Fish Passage Center

Updated:

8/26/05 9:28 AM

**TO: 08/26/05**

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
<b>LGR</b>	Sum of NumberCollected	1,574,875	5,537,386	286,009	31,627	5,590,781	13,020,678
	Sum of NumberBarged	1,546,272	5,235,734	257,640	30,286	5,094,008	12,163,940
	Sum of NumberBypassed	13,113	278,605	26,286	490	448,422	766,916
	Sum of NumberTrucked	2,944	8,885	873	493	43,018	56,213
	Sum of SampleMorts	455	453	16	16	71	1,011
	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	12,546	14,162	1,210	358	5,333	33,609
<b>LGS</b>	Sum of NumberCollected	1,195,976	2,452,396	186,034	38,861	2,857,482	6,730,749
	Sum of NumberBarged	1,137,182	2,016,970	151,296	37,811	2,277,111	5,620,370
	Sum of NumberBypassed	50,482	428,573	34,636	938	571,464	1,086,093
	Sum of NumberTrucked	4,841	252	16	47	448	5,604
	Sum of SampleMorts	238	128	12	6	74	458
	Sum of FacilityMorts	3,162	6,453	75	59	8,385	18,134
	Sum of ResearchMorts	0	20	0	0	0	20
	Sum of TotalProjectMorts	3,400	6,601	87	65	8,459	18,612
<b>LMN</b>	Sum of NumberCollected	177,125	670,863	21,561	7,344	614,126	1,491,019
	Sum of NumberBarged	168,777	512,012	17,036	7,156	456,619	1,161,600
	Sum of NumberBypassed	7,505	145,571	4,521	99	154,901	312,597
	Sum of NumberTrucked	395	12,716	2	60	2,252	15,425
	Sum of SampleMorts	133	40	0	3	26	202
	Sum of FacilityMorts	315	524	2	26	328	1,195
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	448	564	2	29	354	1,397
<b>MCN</b>	Sum of NumberCollected	4,222,026	722,362	61,227	60,078	119,415	5,185,108
	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	24,144	0	2	16	4	24,166
	Sum of SampleMorts	816	120	8	18	8	970
	Sum of FacilityMorts	24,611	2,824	178	360	380	28,353
	Sum of ResearchMorts	134	76	6	12	3	231
	Sum of TotalProjectMorts	25,561	3,020	192	390	391	29,554
Total Sum of NumberCollected		7,170,002	9,383,007	554,831	137,910	9,181,804	26,427,554
Total Sum of NumberBarged		5,729,286	7,781,841	426,903	76,328	7,833,200	21,847,558
Total Sum of NumberBypassed		1,366,291	1,554,966	125,545	60,116	1,288,345	4,395,263
Total Sum of NumberTrucked		32,324	21,853	893	616	45,722	101,408
Total Sum of SampleMorts		1,642	741	36	43	179	2,641
Total Sum of FacilityMorts		40,086	23,407	1,449	787	14,353	80,082
Total Sum of ResearchMorts		227	199	6	12	5	449
Total Sum of TotalProjectMorts		41,955	24,347	1,491	842	14,537	83,172

**Cumulative Adult Passage at Mainstem Dams Through: 08/25**

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	18,861	1,459	16,733	2,046	29,102	2,747
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	8,854	703	7,649	1,282	13,581	1,614
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	5,227	763	3,765	1,253	7,664	1,196
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	3,573	384	2,723	667	4,634	740
IHR	28,039	1,267	77,106	4,646	51,680	3,159	8,837	983	13,173	3,012	10,235	1,807	425	96	210	62	322	37
LMN	25,933	1,002	71,578	3,785	49,507	2,979	8,347	802	10,593	2,196	9,755	1,500	241	43	168	27	223	53
LGS	23,995	923	62,458	3,404	47,589	3,042	6,970	974	9,304	2,263	8,528	1,742	156	33	111	23	161	23
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	71	24	62	38	87	20
PRD	14,148	515	13,521	1,020	15,454	477	62,172	1,900	67,060	5,613	39,202	1,885	1,867	13	1,556	237	2,204	296
RIS	11,908	504	10,918	958	12,149	699	54,033	2,443	62,311	4,834	36,079	4,459	1,028	81	684	121	830	237
RRH	4,568	417	4,365	734	4,426	242	42,348	2,261	41,532	8,093	26,362	2,921	651	66	354	81	523	170
WEL	4,897	99	4,615	178	3,006	190	30,293	660	31,130	1,338	19,259	1,314	0	0	0	0	0	0
WFA	35,474	1,181	96,319	757	n/a	n/a	---	---	---	---	---	---	0	0	0	0	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	1,033	124	255	28	1,186	142	72,427	123,283	53,716	190,990	177,164	196,853	62,182
TDA	48	13	2	0	96	17	65,005	107,465	44,479	60,834	44,212	78,329	26,919
JDA	41	-8	2	2	37	0	69,068	113,486	48,142	46,224	37,803	53,759	17,711
MCN	1	0	3	5	4	0	63,529	89,697	41,398	34,368	25,729	39,731	12,896
IHR	0	7	0	0	0	0	18	91	24	15,245	17,580	20,776	4,069
LMN	0	0	2	0	0	0	17	80	28	12,394	12,255	17,227	3,778
LGS	0	0	0	0	0	0	14	80	32	7,539	8,682	11,528	2,500
LGR	0	0	0	0	0	0	17	113	32	9,661	12,581	13,046	3,371
PRD	123	2	2	2	5	0	74,669	124,934	52,071	4,885	6,153	5,041	n/a
RIS	2	0	17	0	1	0	71,173	106,618	47,372	4,248	6,355	3,881	2,653
RRH	0	0	0	0	1	0	55,470	81,270	32,371	3,186	4,447	2,675	1,823
WEL	0	0	0	0	0	0	54,543	77,879	31,580	1,466	2,317	1,612	751
WFA	1	0	0	0	n/a	n/a	0	0	n/a	19,138	43,584	n/a	n/a

WFA is through 08/19; RRH and RIS are through 08/23; PRD and WEL are through 08/23.

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

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: 08/26/05

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:

Steelhead
4,798

