



*Fish Passage Center*

# Weekly Report #05 - 23

August 12, 2005

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**Highlights:**

- River flows at Lower Granite Dam have averaged 38.1 Kcfs between June 21-August 11 and 29.4 Kcfs last week.
- River flows at McNary Dam have averaged 177.8 Kcfs July 1st through August 11th and 155.3 Kcfs last week.
- Spill at The Dalles Dam averaged 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 eight days of August at most Columbia Basin locations. Of the sites in Table 1, none recorded precipitation that was greater than average over the first eight days of August. 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 1-8		Water Year 2005 October 1, 2004 to August 8, 2005	
	Observed (inches)	% Average	Observed (inches)	% Average
Columbia Above Coulee	0.05	11	21.13	93
Snake River Above Ice Harbor	0.15	69	15.92	98
Columbia Above The Dalles	0.09	30	18.83	89
Kootenai	0.06	13	21.49	92
Clark Fork	0.06	18	12.82	81
Flathead	0.04	10	20.41	98
Pend Oreille/Spokane	0.03	8	25.32	87
Central Washington	0.00	0	6.67	79
Snake River Plain	0.05	32	12.25	118
Salmon/Boise/Payette	0.16	89	15.48	83
Clearwater	0.03	9	23.89	84
SW Washington Cascades/Cowlitz	0.00	0	49.49	73
Willamette Valley	0.00	0	39.88	70

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 38.1 Kcfs between June 21-August 11 and 29.4 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 177.8 Kcfs July 1st through August 11th and 155.3 Kcfs last week.

Grand Coulee Reservoir is currently at an elevation of 1283.5 feet (August 11th, 2005 midnight) and has drafted 1.0 foot 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 2447.1 feet (8-11-05) and drafted 2.7 feet last week. Outflows at Libby are currently 18.8 Kcfs. Libby is projected to draft to elevation 2439 feet by the end of August.

Hungry Horse is currently at an elevation of 3547.3 feet (August 11th, 2005 midnight) and has drafted 2.4 feet in the last week. Outflows at Hungry Horse are currently 5.3 Kcfs. Hungry Horse is projected to draft to elevation 3540 feet by the end of August.

Dworshak is currently an elevation of 1555.6 feet (August 11th, 2005 midnight). Outflows at Dworshak have been decreased to 10.0 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 2052.9 feet on August 11th, 2005 with outflows ranging between 7.0 and 16.4 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. 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 and Ice Harbor Dams is being provided as flow in excess of the operation of one unit. Spill at Little Goose Dam was changed from gas cap spill to gas cap spill during nighttime hours and was further reduced this past week to 30% of instantaneous flow during daytime hours. This change was made to address concerns regarding adult passage at this project. Shortly after spill began on June 20th, the adult passage numbers declined at Little Goose Dam. This spill change is designed to allow adult fish to pass more easily. At Lower Monumental Dam spill was originally limited because of concerns regarding total dissolved gas production at this project. Consequently, spill began at 11.5 Kcfs instantaneous flow and has been adjusted according to the total dissolved gas levels. Spill is presently being provided as the volume in excess of that needed to operate one unit. Spill averaged 59% of daily average flows at Lower Granite, 41% of daily average flows at Little Goose, 58% of daily average flows at Lower Monumental and 67% 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 64% of daily average flow. Spill at John Day Dam averaged 30% of daily average flow. Spill at John Day is 30% of river flow on a 24-hour basis. 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 40% as specified in the Biological Opinion. Spill at Bonneville Dam averaged 57% 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. Only Lower Granite Dam showed an increase in subyearling indices this past week.

At Lower Granite Dam in the Lower Snake River the subyearling Chinook average passage index rose to 400 per day this week compared to 350 the previous week. Based on PIT-tag data the collection efficiency at Lower Granite since spill began is between 10% and 40% (depending on hatchery or wild origin for fish), 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.

At Little Goose and Lower Monumental dams the subyearling Chinook indices were down with the index at Little Goose falling to 300 per day average this week while the index went from 60 to 20 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 58 compared to 140 last week.

At McNary Dam indices for subyearlings were lower this week. The average index fell to 6,400 per day compared to 9,700 per day last week. Based on PIT-tag data, the largest numbers of fish marked originated in the Snake River, as well as from the SMP marking at Rock Island Dam. Summer spill operations, as ordered by Judge Redden began July 1, and resulted in decrease collection of fish at the project as spill was increased. We estimated collection efficiency, based on PIT-tagged fish 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 5,000 this week compared to 17,500 last week, while at Bonneville Dam the subyearling index averaged 2,000 this past week down from 5,500 last week.

**Hatchery Releases:** While there were no hatchery releases planned the last two weeks, Nez Perce Tribal Hatchery released over 150,000 subyearling spring chinook on July 29 due to ~~concerns over the occurrence of~~ *Ichthyophthirius* in the fish. There are no hatchery releases scheduled for the next two weeks.

### Hatchery Zone Release Report

Thursday 11-Aug-2005				
	Snake River	Mid-Columbia	Lower Columbia	Total Release
Fall Chinook	4,907,703	12,449,054	21,567,139	38,923,896
Spring Chinook	9,440,350	5,158,571	5,157,183	19,756,104
Summer Chinook	2,348,012	3,370,613		5,718,625
Coho	816,300	1,868,096	5,149,621	7,834,017
Sockeye	209,046	592,459		801,505
Summer Steelhead	8,887,764	1,188,619	523,769	10,600,152
Winter Steelhead			116,832	116,832
Total	26,609,175	24,627,412	32,514,544	83,751,131

**Adult Passage:** Fall Chinook counts began on August 1, at Bonneville Dam and August 4 at the Dalles Dam. The 2005 summer Chinook count at Bonneville Dam was 78,773, 85% of the 2004 total summer Chinook count of 92,143. At The Dalles Dam the adult summer Chinook count of 68,146 was also only 85% of the 2004 total count of 79,495. Jack counts at both projects were significantly less than 2004 totals. Although annual totals continue to decline, The 2005 adult total for summer Chinook at Bonneville Dam and the Dalles dams are still higher than the ten year average counts for those projects which includes the record low counts which occurred in 1995 and 1996. These totals reflect the traditional start date of June 1 for summer Chinook counts at Bonneville Dam to facilitate comparisons with past years counts and the ten year average count. The Technical Advisory Committee of US v Oregon is considering June 15 as the beginning of summer Chinook counts at Bonneville Dam for their purposes. Summer Chinook counts at all of the other projects are showing the same trend, and are slightly below the 2004 count to date.

Fall Chinook counts to date at Bonneville and The Dalles dams are below the 2004 totals

and the ten year average totals for this date. However, these totals only reflect eleven days of counts.

Sockeye counts at the Lower Columbia River projects and the Mid-Columbia projects are below the 2004 count totals to date but are still above the ten-year average total for this date. Sockeye counts at the Snake River projects are significantly below the 2004 totals to date and below the ten-year average count for this date.

Steelhead counts to date at Bonneville Dam are slightly below the 2004 total and the ten-year average counts for this date. Steelhead counts at The Dalles are slightly above the 2004 total but below the ten-year average counts for this date. At John Day Dam the steelhead count is above the 2004 total but below the ten-year average count for this date. At McNary Dam the 2005 count is above the 2004 count but slightly below the ten-year average count for this date.

**Daily Average Flow and Spill (in kcfs) at Mid-Columbia Projects**

Date	Grand Coulee		Chief Joseph		Wells		Rocky Reach		Rock Island		Wanapum		Priest Rapids	
	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill
07/29/05	148.2	0.2	142.6	0.0	148.7	8.9	144.4	12.3	145.7	28.2	157.4	8.2	163.0	94.8
07/30/05	142.0	0.2	142.6	0.0	147.5	9.0	144.1	11.0	146.2	24.9	138.0	8.7	136.9	80.1
07/31/05	113.6	0.2	122.5	0.0	130.7	9.1	129.0	9.2	129.3	20.3	139.0	8.7	146.7	86.1
08/01/05	103.0	0.1	106.2	0.0	118.2	10.0	114.3	13.1	118.6	29.0	135.7	8.3	137.3	80.0
08/02/05	96.2	0.2	94.0	0.0	91.8	7.6	88.4	12.9	90.7	28.4	74.3	8.3	74.0	43.6
08/03/05	107.5	0.1	104.5	0.0	106.0	7.8	99.2	10.5	98.5	22.6	97.6	9.1	98.4	57.0
08/04/05	124.2	0.2	122.0	0.0	122.4	8.2	122.5	11.2	123.2	24.5	126.4	8.7	129.4	75.4
08/05/05	123.8	0.1	125.9	0.0	128.3	8.4	125.3	10.1	125.2	18.0	125.2	8.8	127.0	73.5
08/06/05	98.0	0.2	103.6	0.0	105.4	8.5	103.1	9.9	104.9	22.0	101.0	8.9	102.3	61.0
08/07/05	98.8	0.2	95.9	0.0	101.5	7.4	102.0	9.0	103.9	20.0	116.9	8.7	121.6	71.0
08/08/05	115.4	0.1	118.8	0.0	118.7	7.8	112.9	11.1	113.5	26.0	115.6	8.5	115.0	67.0
08/09/05	120.9	0.2	116.1	0.0	120.3	8.3	118.8	11.2	119.3	14.3	113.9	8.7	114.8	67.0
08/10/05	104.8	0.2	107.3	0.0	111.1	8.0	111.7	10.8	112.4	0.0	122.4	5.5	127.9	76.4
08/11/05	109.3	0.2	112.5	0.0	113.8	8.0	105.0	10.4	105.7	0.0	114.7	1.4	114.7	50.6

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

Date	Dworshak		Hells Canyon		Lower Granite		Little Goose		Lower Monumental		Ice Harbor	
	Flow	Spill	Inflow	Outflow	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill
07/29/05	12.1	2.3	9.7	18.7	33.0	21.1	35.2	15.0	35.0	22.3	33.8	23.7
07/30/05	12.1	2.3	9.8	11.1	35.6	23.8	36.6	15.3	36.9	24.3	38.1	27.8
07/31/05	12.1	2.2	9.3	13.0	28.9	16.9	31.4	13.1	29.0	16.4	31.4	21.2
08/01/05	12.1	2.2	9.4	14.5	32.1	20.1	32.8	13.1	30.6	18.3	29.3	19.2
08/02/05	12.1	2.2	9.0	10.6	30.6	19.1	34.2	14.4	33.5	21.2	35.9	25.7
08/03/05	12.1	2.2	8.3	9.1	28.2	16.3	28.5	11.4	27.8	15.0	28.1	17.9
08/04/05	12.0	2.1	9.2	11.8	26.5	14.4	29.1	10.6	24.8	12.4	25.4	15.1
08/05/05	12.1	2.2	9.3	14.4	29.8	17.4	30.6	12.8	28.0	15.4	28.9	18.6
08/06/05	12.0	2.1	9.4	16.2	33.7	21.4	36.2	15.5	34.4	22.0	36.3	25.9
08/07/05	12.1	2.1	9.1	12.5	32.2	19.9	33.8	14.0	31.6	19.4	35.0	25.0
08/08/05	12.0	2.1	8.9	11.5	27.6	16.5	28.9	12.4	27.3	14.7	28.4	18.4
08/09/05	12.0	2.0	9.5	13.0	29.2	17.3	32.6	12.7	31.4	19.0	29.4	19.5
08/10/05	11.3	1.7	7.7	8.9	27.6	15.6	27.1	10.7	25.1	12.5	27.8	17.3
08/11/05	10.1	0.0	---	---	26.0	14.1	32.7	13.3	30.6	18.4	33.5	22.7

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

Date	McNary		John Day		The Dalles		Bonneville			
	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	PH1	PH2
07/29/05	188.2	133.7	166.1	49.8	160.1	63.6	165.7	87.2	0.9	66.1
07/30/05	176.9	121.8	164.9	49.2	160.1	64.3	174.3	88.7	0.0	74.1
07/31/05	197.7	144.6	184.4	55.3	181.7	69.4	183.2	88.8	0.4	83.3
08/01/05	184.2	130.7	172.0	51.4	164.5	66.0	178.5	90.4	0.0	76.7
08/02/05	167.4	112.1	169.9	50.6	166.9	64.6	171.4	89.5	2.3	68.0
08/03/05	139.0	83.7	126.2	37.8	129.7	53.3	143.0	84.5	0.0	47.0
08/04/05	145.0	90.2	138.2	41.1	132.4	55.8	138.3	80.1	0.0	46.7
08/05/05	155.0	100.5	136.6	40.7	129.6	52.3	138.8	80.8	0.0	46.5
08/06/05	175.2	121.1	142.5	42.5	140.7	60.2	152.6	86.1	0.0	55.0
08/07/05	149.2	94.8	132.2	39.8	127.8	53.4	141.6	82.5	0.0	47.6
08/08/05	160.2	104.2	151.3	45.5	150.9	59.2	150.6	84.6	0.0	54.5
08/09/05	135.1	79.8	126.2	37.5	123.4	48.3	141.6	80.2	0.0	49.9
08/10/05	160.4	105.7	144.6	43.1	141.9	53.6	142.8	82.2	0.0	49.1
08/11/05	152.2	96.9	140.5	42.0	137.2	54.6	151.2	88.8	0.0	50.9

## 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
<b>Little Goose Dam</b>											
	08/07/05	Chinook + Steelhead	13	0	0	0.00%	0.00%	0	0	0	0
	08/11/05	Chinook + Steelhead	2	0	0	0.00%	0.00%	0	0	0	0
<b>McNary Dam</b>											
	08/04/05	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	08/08/05	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	08/11/05	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
<b>Bonneville Dam</b>											
	08/02/05	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	08/06/05	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	08/09/05	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
<b>Rock Island Dam</b>											
	08/04/05	Chinook + Steelhead	50	1	1	2.00%	0.00%	1	0	0	0
	08/08/05	Chinook + Steelhead	21	0	0	0.00%	0.00%	0	0	0	0
	08/11/05	Chinook + Steelhead	15	0	0	0.00%	0.00%	0	0	0	0

### HATCHERY RELEASE LAST TWO WEEKS

#### Hatchery Release Summary

From: **7/29/2005** to **08/11/05**

Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
Nez Perce Tribe	Nez Perce Tribal Hatchery	CH0	SP	2006	156,640	07-29-05	07-29-05	Lolo Creek	Clearwater River M F
Nez Perce Tribe Total					156,640				
<b>Grand Total</b>					<b>156,640</b>				

## 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>				
7/29	---	---	---	0	114	114	116	24	111	111	112	24	109	110	112	24	109	109	110	24
7/30	---	---	---	0	112	113	114	24	110	111	111	24	108	109	110	24	108	109	109	24
7/31	---	---	---	0	113	113	114	24	110	111	111	24	108	110	112	24	109	109	110	24
8/1	---	---	---	0	112	113	113	24	110	110	111	24	108	109	111	24	108	109	109	24
8/2	---	---	---	0	112	112	113	24	110	110	110	24	108	108	110	24	108	108	108	24
8/3	---	---	---	0	111	111	112	24	109	109	110	24	108	108	111	24	107	107	108	24
8/4	---	---	---	0	111	111	112	24	109	110	110	24	108	108	110	24	108	108	109	23
8/5	---	---	---	0	111	112	112	24	110	110	110	24	108	108	110	24	108	108	108	1
8/6	---	---	---	0	112	112	113	24	110	110	110	24	108	109	112	24	---	---	---	0
8/7	---	---	---	0	112	113	113	24	110	110	111	24	108	109	113	24	---	---	---	0
8/8	---	---	---	0	111	112	112	24	110	110	112	24	108	109	112	24	---	---	---	0
8/9	---	---	---	0	111	111	112	24	110	110	110	23	107	108	109	24	109	109	109	8
8/10	---	---	---	0	111	111	112	24	109	109	110	24	107	108	110	24	108	108	109	23
8/11	---	---	---	0	110	110	111	24	109	109	110	24	107	108	109	24	107	108	108	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>				
7/29	110	110	112	22	109	110	110	24	111	111	112	24	111	111	112	24	112	112	112	24
7/30	109	110	111	21	108	109	109	24	110	110	111	24	110	111	111	24	111	111	112	24
7/31	110	111	111	21	108	109	109	24	110	110	111	24	110	111	111	24	111	111	112	24
8/1	109	110	111	21	108	108	109	22	109	110	111	22	110	110	110	24	110	110	111	24
8/2	109	110	111	24	106	108	108	24	108	109	110	24	108	109	109	24	109	110	110	24
8/3	108	108	110	16	106	108	108	24	109	109	110	24	108	109	109	24	109	109	110	24
8/4	108	108	109	16	107	108	108	24	109	110	111	24	109	110	110	24	109	110	110	24
8/5	---	---	---	0	107	108	109	24	109	110	110	24	110	111	111	24	110	111	111	24
8/6	---	---	---	0	107	109	109	24	110	111	111	24	110	110	111	24	111	111	111	24
8/7	---	---	---	0	107	108	109	24	110	110	111	24	110	110	110	24	110	111	111	24
8/8	---	---	---	0	108	109	110	24	110	111	111	24	110	111	111	24	111	111	112	24
8/9	109	109	110	9	108	109	109	24	110	111	111	24	110	110	110	24	110	111	111	24
8/10	109	109	110	23	108	109	109	24	110	111	111	24	109	110	110	24	110	110	111	24
8/11	108	109	109	24	108	108	109	24	109	110	111	24	109	109	109	24	110	110	110	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>				
7/29	112	112	113	24	117	118	119	24	---	---	---	0	---	---	---	0	---	---	---	0
7/30	111	112	113	24	116	117	118	24	---	---	---	0	---	---	---	0	---	---	---	0
7/31	111	112	112	24	116	117	119	24	---	---	---	0	---	---	---	0	---	---	---	0
8/1	110	111	111	24	117	118	120	24	---	---	---	0	---	---	---	0	---	---	---	0
8/2	110	110	111	24	117	118	120	24	---	---	---	0	---	---	---	0	---	---	---	0
8/3	109	110	111	24	117	118	119	24	---	---	---	0	---	---	---	0	---	---	---	0
8/4	110	111	112	24	116	117	119	24	---	---	---	0	---	---	---	0	---	---	---	0
8/5	110	111	112	24	116	117	119	24	---	---	---	0	---	---	---	0	---	---	---	0
8/6	111	112	112	24	117	117	118	24	---	---	---	0	---	---	---	0	---	---	---	0
8/7	110	111	111	24	116	118	120	24	---	---	---	0	---	---	---	0	---	---	---	0
8/8	111	112	112	24	117	118	119	24	---	---	---	0	---	---	---	0	---	---	---	0
8/9	111	112	112	24	115	117	118	24	---	---	---	0	---	---	---	0	---	---	---	0
8/10	110	111	111	24	111	112	112	24	---	---	---	0	---	---	---	0	---	---	---	0
8/11	109	110	111	24	110	111	112	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>24 h</u>	<u>12 h</u>	#					
	Avg	Avg		High	Avg		Avg	High		Avg	Avg		High	Avg			Avg	High	Avg	Avg
7/29	---	---	---	0	---	---	---	0	103	103	103	24	104	105	106	24	102	103	104	23
7/30	---	---	---	0	112	113	113	24	102	103	103	24	103	105	106	24	102	103	104	24
7/31	---	---	---	0	112	113	114	24	102	103	103	24	104	105	106	24	101	103	104	24
8/1	---	---	---	0	111	112	113	24	102	103	103	24	104	105	106	24	101	102	103	24
8/2	---	---	---	0	110	111	111	24	102	103	103	24	103	105	105	24	101	102	104	24
8/3	---	---	---	0	109	110	111	24	102	103	104	24	103	104	105	24	101	102	104	24
8/4	---	---	---	0	107	109	110	24	102	102	103	24	103	104	105	24	101	103	104	24
8/5	---	---	---	0	109	110	110	24	102	103	103	24	103	104	105	24	102	103	104	24
8/6	---	---	---	0	108	109	110	24	102	103	103	24	103	104	106	24	101	103	104	24
8/7	---	---	---	0	107	108	108	24	103	103	103	24	103	104	106	24	101	102	103	24
8/8	---	---	---	0	106	106	107	24	103	103	103	24	103	104	106	24	101	102	103	24
8/9	---	---	---	0	104	105	106	24	102	103	103	24	103	104	106	24	100	102	103	24
8/10	---	---	---	0	100	101	103	24	101	102	103	24	102	104	105	24	101	102	103	24
8/11	---	---	---	0	96	97	97	24	100	101	102	24	101	103	104	24	101	102	104	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>24 h</u>	<u>12 h</u>	#					
	Avg	Avg		High	Avg		Avg	High		Avg	Avg		High	Avg			Avg	High	Avg	Avg
7/29	104	106	108	24	105	106	108	24	113	114	114	23	108	108	108	24	111	113	116	24
7/30	104	106	108	24	106	108	109	24	114	114	114	24	108	108	109	24	111	113	115	24
7/31	104	106	108	24	107	108	109	24	112	113	113	24	108	108	108	24	110	112	115	24
8/1	104	106	108	24	105	106	107	24	113	114	114	24	108	108	108	24	110	112	115	24
8/2	104	106	107	24	104	105	106	24	113	113	114	24	108	108	108	24	110	113	115	24
8/3	104	106	107	24	108	110	112	24	112	112	113	24	107	108	108	24	110	113	115	23
8/4	104	106	108	24	110	111	113	24	112	112	113	24	109	109	110	24	110	112	113	24
8/5	104	106	107	24	111	112	113	24	113	113	114	24	109	109	110	24	111	113	115	24
8/6	104	106	107	24	108	110	113	24	113	113	113	24	109	109	109	24	111	113	115	24
8/7	103	106	107	24	104	105	107	24	113	113	113	24	110	110	111	24	111	113	115	24
8/8	104	106	107	24	109	112	115	24	112	112	114	24	110	110	110	24	111	113	115	24
8/9	104	106	107	24	110	112	116	24	112	112	113	24	109	110	110	24	111	113	115	24
8/10	103	105	107	24	105	105	108	24	112	113	114	24	109	110	110	24	110	111	115	24
8/11	103	105	106	24	106	108	111	24	112	112	113	24	108	109	109	24	110	111	115	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>24 h</u>	<u>12 h</u>	#					
	Avg	Avg		High	Avg		Avg	High		Avg	Avg		High	Avg			Avg	High	Avg	Avg
7/29	107	108	109	24	119	120	120	24	110	110	111	23	113	113	114	23	113	115	118	24
7/30	108	108	109	24	119	119	120	24	110	111	112	24	113	114	114	24	113	115	116	24
7/31	108	108	109	24	116	119	120	24	111	111	112	24	113	113	114	24	114	116	117	24
8/1	107	108	108	24	115	118	119	24	110	111	112	24	112	114	114	24	112	113	114	24
8/2	108	108	108	24	118	118	119	24	112	113	113	24	113	113	114	24	112	113	115	24
8/3	108	109	109	24	115	117	118	24	113	113	113	24	111	112	113	24	112	113	114	24
8/4	108	108	109	24	113	113	113	24	113	113	113	24	110	111	113	24	111	112	113	24
8/5	108	108	108	24	114	115	118	24	112	112	113	24	111	112	113	24	111	113	115	24
8/6	108	109	110	24	118	119	119	24	112	113	113	24	113	114	114	24	111	113	115	24
8/7	109	109	109	24	117	118	119	24	113	113	113	24	113	114	115	24	112	113	115	24
8/8	109	109	110	24	115	116	118	24	112	112	112	24	113	114	115	24	113	114	116	24
8/9	109	109	110	24	118	118	119	24	112	112	113	24	113	114	115	24	112	113	114	24
8/10	109	109	109	24	113	113	114	24	112	113	113	24	112	113	113	24	110	111	112	24
8/11	108	109	109	24	117	120	120	24	112	113	113	24	113	114	114	24	108	109	109	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>High</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>High</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>High</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>High</u>	<u>#</u>
7/29	111	112	112	24	118	118	119	24	108	108	109	23	115	115	116	24	106	106	107	23
7/30	111	112	112	24	118	118	119	24	108	109	109	23	115	116	117	24	107	107	108	23
7/31	112	112	113	24	118	119	119	24	109	110	111	23	117	118	118	24	108	109	109	23
8/1	112	112	112	24	118	120	122	24	109	109	110	23	115	116	116	21	108	109	109	23
8/2	111	111	111	24	117	117	117	24	108	108	108	23	115	116	116	24	106	107	107	23
8/3	110	111	111	24	116	116	116	24	107	108	109	23	115	115	115	24	108	108	108	23
8/4	110	111	112	24	116	116	117	24	108	109	109	23	115	115	116	24	109	109	110	23
8/5	110	110	111	24	117	117	119	24	109	109	110	23	115	115	115	24	109	109	110	23
8/6	110	110	111	24	117	118	118	24	109	109	110	23	114	115	116	24	107	107	108	23
8/7	110	111	111	24	116	117	118	24	108	109	109	23	114	115	115	24	106	106	107	23
8/8	111	111	111	24	117	118	118	24	108	109	109	23	115	116	116	24	107	107	107	23
8/9	110	110	110	24	115	116	117	24	108	109	109	23	114	115	115	24	106	107	107	23
8/10	109	110	110	24	116	118	118	24	107	107	108	23	115	115	117	24	105	105	105	23
8/11	107	108	108	24	116	117	117	24	105	105	106	23	114	115	115	24	104	104	104	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>High</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>High</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>High</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>High</u>	<u>#</u>
7/29	112	113	113	24	107	107	108	23	115	116	117	23	112	113	115	24	115	115	118	17
7/30	113	114	114	24	106	106	107	23	115	116	117	23	112	113	115	24	115	116	119	17
7/31	114	114	115	24	107	107	108	23	114	116	117	23	111	113	116	24	115	116	118	17
8/1	113	113	114	24	107	107	107	23	114	115	116	19	109	111	112	24	---	---	---	0
8/2	113	113	114	24	105	106	106	23	114	116	117	23	110	112	115	24	115	115	117	17
8/3	112	113	113	24	106	106	107	23	115	116	117	23	110	113	114	24	115	115	117	17
8/4	113	114	115	24	107	107	108	23	115	116	117	23	112	113	114	24	115	116	119	17
8/5	113	113	114	24	108	109	109	23	116	116	117	23	113	114	115	24	115	115	118	17
8/6	112	113	113	24	106	107	108	23	115	116	117	23	112	113	114	24	115	115	118	17
8/7	111	112	112	24	105	105	106	23	114	115	116	23	111	112	113	24	115	115	118	17
8/8	112	113	113	24	104	104	105	23	114	115	116	23	111	112	113	24	115	115	117	17
8/9	112	112	113	24	104	104	104	23	114	115	116	23	110	111	112	24	115	115	117	17
8/10	111	112	112	24	103	103	103	23	113	114	114	23	109	110	111	24	115	115	119	17
8/11	111	112	112	24	102	103	103	23	114	114	116	23	109	111	112	24	115	116	120	17

## Two-Week Summary of Passage Indices

\* One or more of the sites on this date had an incomplete or biased sample.

See Sampling Comments: <http://www.fpc.org/currentDaily/smpcomments.htm>

For clip information see: <http://www.fpc.org/CurrentDaily/catch.htm>

For sockeye and yearling chinook (Snake only) race information see: <http://www.fpc.org/smoltqueries/currentsmpsubmitdata.asp>

COMBINED YEARLING CHINOOK											
Date	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)
07/29/2005	---	---	---	---	0	4	0	0	0	0	0
07/30/2005	---	---	---	---	3	2	3	0	0	0	11
07/31/2005	---	---	---	---	0	9	6	0	0	0	0
08/01/2005 *	---	---	---	---	0	11	0	0	0	0	0
08/02/2005	---	---	---	---	0	2	0	0	0	0	0
08/03/2005	---	---	---	---	0	2	0	0	0	0	0
08/04/2005	---	---	---	---	0	0	2	0	0	0	0
08/05/2005	---	---	---	---	0	2	0	0	0	0	0
08/06/2005	---	---	---	---	0	4	0	0	0	29	0
08/07/2005	---	---	---	---	0	0	0	0	0	20	0
08/08/2005 *	---	---	---	---	0	0	0	2	0	72	0
08/09/2005	---	---	---	---	0	5	0	0	0	0	0
08/10/2005	---	---	---	---	0	2	0	0	0	0	0
08/11/2005	---	---	---	---	---	2	0	0	0	0	0
08/12/2005	---	---	---	---	---	---	0	---	0	0	0
<hr/>											
<b>Total:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>45</b>	<b>11</b>	<b>2</b>	<b>0</b>	<b>121</b>	<b>11</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>15</b>	<b>15</b>	<b>15</b>
<b>Average:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>8</b>	<b>1</b>
<b>YTD</b>	<b>43,641</b>	<b>42,830</b>	<b>5,792</b>	<b>1,810</b>	<b>5,673,857</b>	<b>2,477,186</b>	<b>706,765</b>	<b>14,797</b>	<b>1,226,429</b>	<b>1,409,471</b>	<b>1,527,240</b>

COMBINED SUBYEARLING CHINOOK											
Date	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)
07/29/2005	---	---	---	---	405	660	76	200	12,537	20,372	9,010
07/30/2005	---	---	---	---	357	359	65	147	12,831	18,525	5,061
07/31/2005	---	---	---	---	411	511	78	150	13,117	21,601	6,328
08/01/2005 *	---	---	---	---	284	844	19	132	14,499	24,921	8,758
08/02/2005	---	---	---	---	408	382	31	104	6,717	16,422	4,287
08/03/2005	---	---	---	---	376	196	113	104	4,568	13,640	4,493
08/04/2005	---	---	---	---	218	221	48	122	4,258	6,525	2,832
08/05/2005	---	---	---	---	327	231	12	98	6,280	4,438	2,708
08/06/2005	---	---	---	---	542	317	32	49	5,306	4,124	1,797
08/07/2005	---	---	---	---	439	312	24	20	9,060	5,550	2,265
08/08/2005 *	---	---	---	---	368	380	16	46	10,432	4,813	1,599
08/09/2005	---	---	---	---	619	408	4	33	6,787	6,290	1,139
08/10/2005	---	---	---	---	344	196	7	35	3,041	4,345	1,470
08/11/2005	---	---	---	---	---	144	11	19	1,769	6,929	1,645
08/12/2005	---	---	---	---	---	---	7	---	2,832	2,778	1,733
<hr/>											
<b>Total:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>5,098</b>	<b>5,161</b>	<b>543</b>	<b>1,259</b>	<b>114,034</b>	<b>161,273</b>	<b>55,125</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>15</b>	<b>15</b>	<b>15</b>
<b>Average:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>392</b>	<b>369</b>	<b>36</b>	<b>90</b>	<b>7,602</b>	<b>10,752</b>	<b>3,675</b>
<b>YTD</b>	<b>0</b>	<b>86</b>	<b>1,224</b>	<b>1,152</b>	<b>1,746,231</b>	<b>1,284,301</b>	<b>206,506</b>	<b>21,911</b>	<b>6,914,009</b>	<b>2,280,709</b>	<b>3,799,341</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)
07/29/2005	---	---	---	---	0	4	0	0	0	142	0
07/30/2005	---	---	---	---	0	0	0	0	0	0	0
07/31/2005	---	---	---	---	0	0	0	0	0	0	11
08/01/2005 *	---	---	---	---	0	0	0	1	0	0	0
08/02/2005	---	---	---	---	0	2	0	2	0	0	0
08/03/2005	---	---	---	---	0	3	0	0	0	71	0
08/04/2005	---	---	---	---	0	0	0	0	0	0	0
08/05/2005	---	---	---	---	2	2	0	2	0	0	0
08/06/2005	---	---	---	---	0	0	0	0	0	0	0
08/07/2005	---	---	---	---	0	0	0	0	0	0	0
08/08/2005 *	---	---	---	---	0	0	3	0	0	0	0
08/09/2005	---	---	---	---	0	0	0	0	0	0	0
08/10/2005	---	---	---	---	0	0	0	0	0	0	0
08/11/2005	---	---	---	---	---	0	0	0	13	0	0
08/12/2005	---	---	---	---	---	---	0	---	0	0	0
<hr/>											
<b>Total:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>11</b>	<b>3</b>	<b>5</b>	<b>13</b>	<b>213</b>	<b>11</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>15</b>	<b>15</b>	<b>15</b>
<b>Average:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>14</b>	<b>1</b>
<b>YTD</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>110</b>	<b>305,061</b>	<b>191,766</b>	<b>24,367</b>	<b>37,192</b>	<b>103,714</b>	<b>192,544</b>	<b>771,252</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)
07/29/2005	---	---	---	---	0	5	0	0	0	0	0
07/30/2005	---	---	---	---	3	4	3	0	0	0	34
07/31/2005	---	---	---	---	0	12	0	0	0	0	11
08/01/2005 *	---	---	---	---	5	23	2	0	0	0	0
08/02/2005	---	---	---	---	0	9	6	0	14	0	0
08/03/2005	---	---	---	---	0	5	3	0	0	0	0
08/04/2005	---	---	---	---	0	5	2	0	0	119	0
08/05/2005	---	---	---	---	0	11	2	0	0	0	0
08/06/2005	---	---	---	---	0	14	0	0	0	0	0
08/07/2005	---	---	---	---	3	11	0	1	0	20	0
08/08/2005 *	---	---	---	---	0	12	3	0	0	0	0
08/09/2005	---	---	---	---	0	9	7	0	0	115	0
08/10/2005	---	---	---	---	0	13	5	0	0	0	0
08/11/2005	---	---	---	---	---	12	0	0	0	0	0
08/12/2005	---	---	---	---	---	---	0	---	0	0	0
<hr/>											
<b>Total:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>11</b>	<b>145</b>	<b>33</b>	<b>1</b>	<b>14</b>	<b>254</b>	<b>45</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>15</b>	<b>15</b>	<b>15</b>
<b>Average:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>10</b>	<b>2</b>	<b>0</b>	<b>1</b>	<b>17</b>	<b>3</b>
<b>YTD</b>	<b>3,754</b>	<b>35,536</b>	<b>2,454</b>	<b>7,263</b>	<b>5,935,704</b>	<b>2,922,218</b>	<b>675,529</b>	<b>15,972</b>	<b>196,392</b>	<b>526,241</b>	<b>186,489</b>

## Two-Week Summary of Passage Indices

Date	COMBINED SOCKEYE										
	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)
07/29/2005	---	---	---	---	0	5	0	8	0	142	27
07/30/2005	---	---	---	---	3	0	0	6	0	0	0
07/31/2005	---	---	---	---	0	0	0	1	14	72	0
08/01/2005 *	---	---	---	---	0	0	0	3	0	0	20
08/02/2005	---	---	---	---	0	0	0	2	0	0	0
08/03/2005	---	---	---	---	0	0	0	9	0	71	0
08/04/2005	---	---	---	---	0	0	0	2	0	0	0
08/05/2005	---	---	---	---	2	0	0	5	0	0	0
08/06/2005	---	---	---	---	0	0	0	1	13	0	0
08/07/2005	---	---	---	---	0	0	0	0	0	0	0
08/08/2005 *	---	---	---	---	0	0	0	4	0	0	0
08/09/2005	---	---	---	---	0	0	0	1	11	29	0
08/10/2005	---	---	---	---	2	0	0	7	0	24	0
08/11/2005	---	---	---	---	---	0	0	1	26	0	0
08/12/2005	---	---	---	---	---	---	0	---	0	0	0
<hr/>											
<b>Total:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>7</b>	<b>5</b>	<b>0</b>	<b>50</b>	<b>64</b>	<b>338</b>	<b>47</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>15</b>	<b>15</b>	<b>15</b>
<b>Average:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>4</b>	<b>23</b>	<b>3</b>
<b>YTD</b>	<b>115</b>	<b>0</b>	<b>0</b>	<b>263</b>	<b>38,441</b>	<b>41,458</b>	<b>8,216</b>	<b>1,967</b>	<b>103,649</b>	<b>84,420</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:

8/12/05 10:20 AM

		07/30/05	TO	08/12/05			
		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
<b>LGR</b>	Sum of NumberCollected	1,927	1	1	3	4	1,936
	Sum of NumberBarged	543	1	0	1	2	547
	Sum of NumberBypassed	5	0	0	0	1	6
	Sum of Numbertrucked	1,520	0	1	2	1	1,524
	Sum of SampleMorts	12	0	0	0	1	13
	Sum of FacilityMorts	0	0	0	0	0	0
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	12	0	0	0	1	13
<b>LGS</b>	Sum of NumberCollected	2,999	25	6	3	85	3,118
	Sum of NumberBarged	1,313	9	2	2	13	1,339
	Sum of NumberBypassed	8	0	0	0	0	8
	Sum of Numbertrucked	2,044	13	4	0	65	2,126
	Sum of SampleMorts	22	0	0	1	2	25
	Sum of FacilityMorts	4	5	0	0	1	10
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	26	5	0	1	3	35
<b>LMN</b>	Sum of NumberCollected	208	4	1		13	226
	Sum of NumberBarged	133	4	0		1	138
	Sum of NumberBypassed	5	0	0		0	5
	Sum of Numbertrucked	121	1	1		12	135
	Sum of SampleMorts	3	0	0		0	3
	Sum of FacilityMorts	5	0	0		0	5
	Sum of ResearchMorts	0	0	0		0	0
	Sum of TotalProjectMorts	8	0	0		0	8
<b>MCN</b>	Sum of NumberCollected	35,014		4	20	4	35,042
	Sum of NumberBarged	14,226		0	4	0	14,230
	Sum of NumberBypassed	280		0	0	0	280
	Sum of Numbertrucked	19,670		2	16	4	19,692
	Sum of SampleMorts	189		0	0	0	189
	Sum of FacilityMorts	649		2	0	0	651
	Sum of ResearchMorts	0		0	0	0	0
	Sum of TotalProjectMorts	838		2	0	0	840
Total Sum of NumberCollected		40,148	30	12	26	106	40,322
Total Sum of NumberBarged		16,215	14	2	7	16	16,254
Total Sum of NumberBypassed		298	0	0	0	1	299
Total Sum of Numbertrucked		23,355	14	8	18	82	23,477
Total Sum of SampleMorts		226	0	0	1	3	230
Total Sum of FacilityMorts		658	5	2	0	1	666
Total Sum of ResearchMorts		0	0	0	0	0	0
Total Sum of TotalProjectMorts		884	5	2	1	4	896

**YTD Transportation Summary**

Source: Fish Passage Center

Updated:

8/12/05 10:20 AM

**TO: 08/12/05**

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
<b>LGR</b>	Sum of NumberCollected	1,573,850	5,537,384	286,008	31,623	5,590,779	13,019,644
	Sum of NumberBarged	1,546,272	5,235,734	257,640	30,286	5,094,008	12,163,940
	Sum of NumberBypassed	13,112	278,605	26,286	490	448,422	766,915
	Sum of NumberTrucked	1,924	8,883	872	489	43,016	55,184
	Sum of SampleMorts	451	453	16	16	71	1,007
	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	12,542	14,162	1,210	358	5,333	33,605
<b>LGS</b>	Sum of NumberCollected	1,195,039	2,452,396	186,032	38,861	2,857,467	6,729,795
	Sum of NumberBarged	1,137,182	2,016,970	151,296	37,811	2,277,111	5,620,370
	Sum of NumberBypassed	50,481	428,573	34,636	938	571,464	1,086,092
	Sum of NumberTrucked	3,900	251	14	47	427	4,639
	Sum of SampleMorts	231	128	12	6	74	451
	Sum of FacilityMorts	3,161	6,453	75	59	8,384	18,132
	Sum of ResearchMorts	0	20	0	0	0	20
	Sum of TotalProjectMorts	3,392	6,601	87	65	8,458	18,603
<b>LMN</b>	Sum of NumberCollected	176,844	670,860	21,560	7,344	614,121	1,490,729
	Sum of NumberBarged	168,777	512,012	17,036	7,156	456,619	1,161,600
	Sum of NumberBypassed	7,499	145,571	4,521	99	154,901	312,591
	Sum of NumberTrucked	121	12,713	1	60	2,247	15,142
	Sum of SampleMorts	132	40	0	3	26	201
	Sum of FacilityMorts	315	524	2	26	328	1,195
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	447	564	2	29	354	1,396
<b>MCN</b>	Sum of NumberCollected	4,217,409	722,362	61,227	60,070	119,415	5,180,483
	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	19,670	0	2	16	4	19,692
	Sum of SampleMorts	797	120	8	18	8	951
	Sum of FacilityMorts	24,562	2,824	178	360	380	28,304
	Sum of ResearchMorts	134	76	6	12	3	231
	Sum of TotalProjectMorts	25,493	3,020	192	390	391	29,486
Total Sum of NumberCollected		7,163,142	9,383,002	554,827	137,898	9,181,782	26,420,651
Total Sum of NumberBarged		5,729,286	7,781,841	426,903	76,328	7,833,200	21,847,558
Total Sum of NumberBypassed		1,366,283	1,554,966	125,545	60,116	1,288,345	4,395,255
Total Sum of NumberTrucked		25,615	21,847	889	612	45,694	94,657
Total Sum of SampleMorts		1,611	741	36	43	179	2,610
Total Sum of FacilityMorts		40,036	23,407	1,449	787	14,352	80,031
Total Sum of ResearchMorts		227	199	6	12	5	449
Total Sum of TotalProjectMorts		41,874	24,347	1,491	842	14,536	83,090

**Cumulative Adult Passage at Mainstem Dams Through: 08/11**

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	78,773	4,472	92,143	12,889	54,750	7,484	2,758	345	7,675	852	5,648	822
TDA	60,956	3,209	130,240	7,717	99,119	5,946	68,146	3,411	79,495	8,430	47,296	5,446	1,427	95	3,097	444	2,316	477
JDA	55,877	2,715	112,153	6,367	82,666	4,703	62,438	5,201	72,518	10,542	44,153	5,186	783	105	1,076	425	1,100	331
MCN	51,857	3,201	107,497	7,682	76,092	4,941	63,714	3,051	65,457	8,760	43,906	5,144	508	49	483	121	567	128
IHR	28,040	1,267	77,106	4,646	51,680	3,159	8,837	983	13,173	3,012	10,235	1,807	0	0	0	0	0	0
LMN	25,783	1,002	71,578	3,785	49,507	2,979	8,318	798	10,585	2,194	9,739	1,491	0	0	0	0	0	0
LGS	23,961	929	62,458	3,404	47,589	3,042	6,937	973	9,294	2,259	8,500	1,736	0	0	0	0	0	0
LGR	26,028	1,258	70,742	4,482	47,410	3,274	6,690	1,070	8,767	2,506	8,597	1,893	0	0	0	0	0	0
PRD	14,148	515	13,521	1,020	15,454	477	61,744	1,899	66,514	5,556	38,803	1,833	0	0	0	0	0	0
RIS	11,908	476	10,918	958	12,149	699	52,239	2,343	60,506	4,662	34,786	4,122	0	0	0	0	0	0
RRH	4,568	417	4,365	734	4,426	242	40,305	2,076	39,605	7,634	24,766	2,572	0	0	0	0	0	0
WEL	4,897	99	4,615	178	3,006	190	27,194	552	28,716	1,102	17,103	966	0	0	0	0	0	0
WFA	35,436	1,179	96,264	754	n/a	n/a	---	---	---	---	---	---	0	0	0	0	n/a	n/a

DAM	Coho						Sockeye			Steelhead			
	2005		2004		10-Yr Avg.		2005	2004	10-Yr Avg.	2005	2004	10-Yr Avg.	Wild 2005
	Adult	Jack	Adult	Jack	Adult	Jack							
BON	1	-1	75	10	53	3	72,527	123,247	53,704	140,068	145,897	145,046	49,724
TDA	3	0	1	0	0	0	61,597	107,450	44,469	45,677	38,773	57,749	22,152
JDA	6	-13	0	0	2	0	65,864	113,468	48,129	34,894	33,097	40,674	14,232
MCN	0	0	0	0	0	0	63,485	89,687	41,387	27,947	22,951	29,366	10,885
IHR	0	7	0	0	0	0	18	91	24	10,562	15,117	14,615	3,119
LMN	0	0	2	0	0	0	16	78	28	9,174	10,557	12,234	2,915
LGS	0	0	0	0	0	0	14	80	32	5,219	6,737	7,797	1,953
LGR	0	0	0	0	0	0	16	113	32	8,016	11,324	10,423	2,785
PRD	13	2	1	1	5	0	74,587	124,851	51,949	3,414	5,224	3,448	n/a
RIS	2	0	3	0	1	0	70,581	106,542	47,113	2,663	4,239	2,457	1,765
RRH	0	0	0	0	1	0	53,597	81,130	32,176	1,800	3,412	1,612	1,204
WEL	0	0	0	0	0	0	53,962	77,641	31,248	718	1,582	826	419
WFA	0	0	0	0	n/a	n/a	0	0	n/a	19,113	43,543	n/a	n/a

WFA, PRD, WEL is through 08/10 , RRH and RIS are through 8/9

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: 08/12/05

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
3,153

