



Fish Passage Center

Weekly Report #05 - 22

August 5, 2005

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Highlights:

- 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.
- Summer Chinook count totals at Bonneville and the Dalles dams for 2005 are below the 2004 totals but above the ten-year average summer Chinook totals for these two projects.
- Biological Opinion summer flow objectives for the Columbia and Snake rivers have not been met thus far during the summer migration period.

Summary of Events:

Water Supply: Precipitation has been below average over the first twenty-five days of July at most Columbia Basin locations. Of the sites in Table 1, only one recorded precipitation that was greater than average over the first twenty-five days of July. Over the entire water year, precipitation remains slightly below average at most locations.

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

Location	Water Year 2005 July 1-25		Water Year 2005 October 1, 2004 to July 25, 2005	
	Observed (inches)	% Average	Observed (inches)	% Average
Columbia Above Coulee	1.02	71	20.82	95
SNAKE RIVER Above Ice Harbor	0.27	36	15.67	99
Columbia Above The Dalles	0.68	68	18.6	90
Kootenai	1.35	88	21.26	94
Clark Fork	0.29	30	12.83	85
Flathead	0.37	29	20.32	101
Pend Oreille/Spokane	0.84	76	25.05	88
Central Washington	0.13	45	6.57	80
SNAKE RIVER Plain	0.17	35	12.16	121
Salmon/Boise/ Payette	0.15	22	15.26	84
Clearwater	0.32	27	23.72	85
SW Washington Cascades/Cowlitz	1.18	105	49.34	74
Willamette Valley	0.36	54	39.79	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 39.5 Kcfs between June 21-August 4 and 30.5 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 182.3 Kcfs July 1st through August 4th and 171.2 Kcfs last week.

Grand Coulee Reservoir is currently at an elevation of 1284.7 feet (August 4th, 2005 midnight) and has drafted 0.8 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 2450.5 feet (8-4-05) and drafted 2.3 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 3550.1 feet (August 4th, 2005 midnight) and has drafted 2.2 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 1565.4 feet (August 4th, 2005 midnight). Outflows at Dworshak have been 12.0 Kcfs for flow and temperature augmentation in the lower Snake River.

The Brownlee Reservoir was at an elevation of 2056.6 feet on August 4th, 2005 with outflows ranging between 9.2 and 16.8 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 in excess of hydraulic capacity is occurring at Dworshak Dam as outflow remains at 12 Kcfs for flow augmentation and temperature control. Spill at Lower Granite Dam and Ice Harbor Dams is being provided to the gas cap, except for days when the RSW is being tested. 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 and is averaging near 20 Kcfs. Spill averaged 61% of daily average flows at Lower Granite, 41% of daily average flows at Little Goose, 59% 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 68% of daily average flow. Spill at John Day Dam averaged 30% of daily average flow. Spill at John Day is now changed from the spring-time pattern of 60% of river flow during nighttime hours, to 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 at TDA have averaged 40% of daily average flow. Spill at Bonneville Dam averaged 53% of average daily flow over the past week.

A few fish were observed with minor signs of gas bubble trauma in the monitoring program over the past week in the federal hydrosystem and at Rock Island Dam.

Smolt Monitoring: Passage indices for subyearling Chinook were lower this week at most SMP sites. Only Bonneville Dam saw indices edge up slightly this week.

At Lower Granite Dam in the Lower Snake River the subyearling Chinook average passage index dropped to 350 per day this week compared to 470 the previous week. Indices for spring migrants were down again this week as well. 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 from 1,400 to 400 per day average this week while the index went from 800 to 60 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 140 compared to 200 last week.

At McNary Dam indices for subyearlings were lower this week. The average index fell to 9,700 per day compared to 16,000 per day last week. Based on PIT-tag data, the largest numbers of marked fish 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 decreased 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 saw indices decline or remain steady this past week. At John Day Dam the index for subyearling chinook averaged 17,500 this week compared to 21,500 last week, while at Bonneville Dam the subyearling index averaged 5,500 this past week down slightly from 5,800 last week.

Hatchery Releases: There are no hatchery releases planned for the next two weeks and there have been no hatchery releases in the past two weeks.

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 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 a few 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 and The Dalles dams are above the 2004 total and 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
07/22/05	123.5	0.2	119.3	0.0	122.9	8.4	120.9	12.9	121.7	27.7	125.9	21.2	125.3	73.8
07/23/05	113.2	0.2	111.0	0.0	114.8	7.8	112.8	9.6	113.4	22.0	117.6	20.5	117.1	69.1
07/24/05	92.1	0.1	95.9	0.0	101.6	7.6	102.8	8.3	105.0	19.0	108.1	11.8	109.1	64.0
07/25/05	129.9	0.2	127.7	0.0	126.6	9.8	118.0	12.7	117.5	29.2	143.3	8.7	151.6	89.0
07/26/05	130.8	0.2	135.3	0.0	140.6	9.0	138.0	12.6	137.9	29.1	117.0	9.2	116.7	68.7
07/27/05	152.0	0.2	137.1	0.0	141.1	9.6	138.8	7.4	139.7	25.2	151.6	9.2	157.2	91.6
07/28/05	138.5	0.2	146.9	0.0	152.1	9.4	145.1	12.4	144.4	28.2	136.4	9.2	138.2	81.1
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

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
07/22/05	12.0	2.4	9.4	13.3	33.6	21.3	33.7	13.6	35.4	21.7	34.6	20.9
07/23/05	11.9	2.3	9.0	8.6	35.1	22.9	35.6	13.9	36.2	21.0	34.0	23.6
07/24/05	11.9	2.2	8.5	10.1	29.7	17.5	28.7	11.4	29.3	16.1	30.5	20.1
07/25/05	11.9	2.2	8.3	9.5	28.5	16.0	28.3	10.9	24.9	12.5	25.3	15.1
07/26/05	11.9	2.2	8.4	8.7	32.8	20.7	32.3	12.9	31.0	18.4	30.5	20.7
07/27/05	12.0	2.2	8.5	12.1	26.8	15.0	28.9	11.8	26.9	14.4	30.3	20.3
07/28/05	11.9	2.1	8.8	14.6	31.4	19.7	32.3	13.6	29.5	16.6	28.3	17.9
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	9.0	28.2	16.3	28.5	11.4	27.8	15.0	28.1	17.9
08/04/05	12.0	2.1	---	---	26.5	14.4	29.1	10.6	24.8	12.4	25.4	15.1

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

Date	McNary		John Day		The Dalles		Bonneville		PH1	PH2
	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill		
07/22/05	187.0	131.9	175.8	52.9	173.6	68.0	189.3	90.0	5.1	82.7
07/23/05	159.4	104.3	155.8	46.4	151.5	57.3	157.3	90.4	0.0	55.4
07/24/05	153.1	98.2	133.5	40.0	132.8	54.3	146.9	88.8	0.0	46.6
07/25/05	177.9	122.4	173.5	52.2	163.6	62.7	161.9	84.6	1.5	64.2
07/26/05	174.2	118.7	170.7	51.0	167.7	65.9	178.2	92.1	13.6	60.8
07/27/05	173.9	119.3	152.3	45.8	149.0	57.8	160.0	88.2	20.0	40.1
07/28/05	163.5	109.3	154.1	45.3	154.5	60.0	158.5	85.0	8.2	53.7
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

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

Site	Date	Species	Number of Fish	Number w GBT signs	Number w Fin Signs	% Fin GBT	% Severe Fin GBT	Number of Fish with Fin GBT Listed by Highest Rank			
								Rank 1	Rank 2	Rank 3	Rank 4
Little Goose Dam											
	07/28/05	Chinook + Steelhead	29	0	0	0.00%	0.00%	0	0	0	0
	07/31/05	Chinook + Steelhead	65	1	1	1.53%	0.00%	1	0	0	0
Lower Monumental Dam											
	07/29/05	Chinook + Steelhead	1	0	0	0.00%	0.00%	0	0	0	0
	08/01/05	Chinook + Steelhead	3	0	0	0.00%	0.00%	0	0	0	0
McNary Dam											
	07/28/05	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	08/01/05	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	08/04/05	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
Bonneville Dam											
	07/26/05	Chinook + Steelhead	101	0	0	0.00%	0.00%	0	0	0	0
	07/30/05	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	08/02/05	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
Rock Island Dam											
	07/28/05	Chinook + Steelhead	99	6	6	6.06%	0.00%	6	0	0	0
	08/01/05	Chinook + Steelhead	50	0	0	0.00%	0.00%	0	0	0	0
	08/04/05	Chinook + Steelhead	50	1	1	2.00%	0.00%	1	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>				
7/22	---	---	---	0	112	113	113	24	112	112	113	24	110	111	114	21	111	111	111	21
7/23	---	---	---	0	112	113	114	24	111	111	112	24	110	110	112	23	109	110	111	23
7/24	---	---	---	0	112	113	113	24	111	111	112	24	109	109	111	13	109	109	110	23
7/25	---	---	---	0	112	112	113	24	111	111	111	24	109	109	112	18	109	109	110	24
7/26	---	---	---	0	112	112	113	23	110	111	111	24	109	110	111	24	109	110	110	24
7/27	---	---	---	0	112	113	114	24	111	111	112	24	110	110	112	24	110	110	111	24
7/28	---	---	---	0	113	114	115	24	111	112	112	24	110	110	111	24	110	110	111	23
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

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>				
7/22	111	112	112	22	110	110	111	13	112	112	112	13	111	111	112	24	112	112	113	24
7/23	110	111	112	16	---	---	---	0	---	---	---	0	110	110	111	24	111	111	112	24
7/24	109	109	110	11	---	---	---	0	---	---	---	0	110	110	110	24	111	111	112	24
7/25	109	109	110	24	---	---	---	0	---	---	---	0	110	110	111	24	111	111	112	24
7/26	109	110	110	22	---	---	---	0	---	---	---	0	110	111	111	24	111	112	112	24
7/27	110	111	111	21	110	110	110	9	112	112	112	9	111	111	112	24	111	112	112	24
7/28	110	111	112	23	110	110	110	24	112	112	113	24	111	112	112	24	112	113	113	24
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

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>				
7/22	112	112	113	24	117	118	120	24	---	---	---	0	---	---	---	0	---	---	---	0
7/23	110	111	111	24	116	116	117	24	---	---	---	0	---	---	---	0	---	---	---	0
7/24	110	111	111	24	115	116	117	24	---	---	---	0	---	---	---	0	---	---	---	0
7/25	110	110	111	24	117	118	120	24	---	---	---	0	---	---	---	0	---	---	---	0
7/26	111	111	112	24	117	117	117	24	---	---	---	0	---	---	---	0	---	---	---	0
7/27	111	112	112	24	117	117	120	24	---	---	---	0	---	---	---	0	---	---	---	0
7/28	112	112	113	24	117	118	119	24	---	---	---	0	---	---	---	0	---	---	---	0
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

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

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

Date	<u>Priest R. Dnst</u>			<u>Pasco</u>			<u>Dworshak</u>			<u>Clrwrtr-Peck</u>			<u>Anatone</u>			#				
	<u>24 h</u>	<u>12 h</u>	High	#	<u>24 h</u>	<u>12 h</u>	High	#	<u>24 h</u>	<u>12 h</u>	High	#	<u>24 h</u>	<u>12 h</u>	High		#			
	Avg	Avg			Avg	Avg			Avg	Avg			Avg	Avg						
7/22	---	---	---	0	111	112	112	24	103	103	104	24	104	105	106	24	101	102	103	24
7/23	---	---	---	0	110	110	111	24	102	102	102	24	104	105	106	24	101	103	104	24
7/24	---	---	---	0	110	111	112	24	102	103	103	24	104	105	106	24	101	102	104	24
7/25	---	---	---	0	109	110	111	24	102	102	103	24	103	105	106	24	102	105	134	24
7/26	---	---	---	0	111	113	114	24	102	102	103	24	103	105	106	24	101	103	104	24
7/27	---	---	---	0	111	113	114	24	102	103	103	24	104	105	106	24	102	103	105	23
7/28	---	---	---	0	113	113	114	24	103	103	104	24	104	105	107	24	102	103	105	24
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

Total Dissolved Gas Saturation Data at Snake River Sites

Date	<u>Clrwrtr-Lewiston</u>			<u>Lower Granite</u>			<u>L. Granite Tlwr</u>			<u>Little Goose</u>			<u>L. Goose Tlwr</u>			#				
	<u>24 h</u>	<u>12 h</u>	High	#	<u>24 h</u>	<u>12 h</u>	High	#	<u>24 h</u>	<u>12 h</u>	High	#	<u>24 h</u>	<u>12 h</u>	High		#			
	Avg	Avg			Avg	Avg			Avg	Avg			Avg	Avg						
7/22	104	105	106	24	107	108	108	24	113	114	116	24	109	110	110	24	111	113	116	24
7/23	104	107	108	24	105	105	106	24	113	114	115	24	108	109	109	24	110	112	115	24
7/24	104	106	108	24	104	105	105	24	112	112	113	24	108	109	109	24	109	110	114	24
7/25	104	106	108	24	104	104	105	24	112	112	112	24	108	108	109	24	110	112	115	24
7/26	104	106	108	24	106	109	110	24	113	114	114	24	108	108	109	24	110	112	115	24
7/27	104	107	108	24	108	109	111	24	112	113	129	24	108	108	108	24	110	112	115	24
7/28	104	107	108	24	108	109	111	24	113	114	114	24	108	109	109	24	111	113	116	24
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

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

Date	<u>Lower Mon.</u>			<u>L. Mon. Tlwr</u>			<u>Ice Harbor</u>			<u>Ice Harbor Tlwr</u>			<u>McNary-Oregon</u>			#				
	<u>24 h</u>	<u>12 h</u>	High	#	<u>24 h</u>	<u>12 h</u>	High	#	<u>24 h</u>	<u>12 h</u>	High	#	<u>24 h</u>	<u>12 h</u>	High		#			
	Avg	Avg			Avg	Avg			Avg	Avg			Avg	Avg						
7/22	110	110	111	24	117	117	118	24	114	114	114	24	113	114	115	24	110	110	111	24
7/23	108	108	109	24	117	118	119	24	112	112	113	24	114	114	115	24	110	112	114	24
7/24	108	108	109	24	115	118	118	24	112	112	112	24	112	113	114	24	111	113	115	24
7/25	107	107	108	24	112	113	113	24	111	111	112	24	110	111	111	24	111	112	114	24
7/26	107	107	108	24	116	118	119	24	110	110	111	24	111	113	113	24	110	112	114	24
7/27	107	107	108	24	115	117	118	24	111	111	111	24	112	113	114	24	111	112	113	24
7/28	107	107	107	24	115	118	119	24	111	111	112	24	111	112	113	24	112	114	115	24
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

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

Total Dissolved Gas Saturation Data at Lower Columbia River Sites

Date	<u>McNary-Wash</u>			<u>McNary Tlwr</u>			<u>John Day</u>			<u>John Day Tlwr</u>			<u>The Dalles</u>							
	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>#</u>	<u>24h</u>	<u>AVG</u>	<u>High</u>	<u>#</u>	
	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	AVG	High	hr
7/22	111	111	112	24	117	118	118	24	109	110	110	23	112	112	114	24	109	110	111	23
7/23	109	110	110	24	117	118	120	24	107	107	108	23	112	113	115	24	106	107	108	23
7/24	110	110	111	24	116	117	117	24	106	106	107	23	111	112	112	24	107	107	108	23
7/25	110	110	112	24	117	118	118	24	105	105	106	23	113	115	116	24	106	106	107	23
7/26	110	110	111	24	119	120	120	24	106	107	109	23	114	116	118	24	109	109	110	23
7/27	110	111	112	24	118	118	118	24	109	109	110	23	115	116	117	24	109	110	110	23
7/28	110	111	112	24	117	117	118	24	109	109	110	23	115	115	117	24	109	110	110	23
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

Total Dissolved Gas Saturation Data at Lower Columbia River Sites

Date	<u>The Dalles Dnst</u>			<u>Bonneville</u>			<u>Warrendale</u>			<u>Camas\Washougal</u>			<u>Cascade Island</u>							
	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>High</u>	<u>hr</u>	
	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr
7/22	114	114	115	24	107	107	108	23	114	115	117	23	110	112	114	24	115	115	118	17
7/23	112	112	113	24	106	106	107	23	115	116	118	23	109	111	113	24	115	115	120	17
7/24	112	112	113	24	105	105	105	23	115	116	118	23	111	112	114	24	114	115	117	17
7/25	112	112	113	24	104	105	105	23	114	115	116	23	111	113	114	24	115	115	120	17
7/26	113	115	115	24	106	107	108	23	115	117	118	23	112	114	115	24	115	116	120	17
7/27	114	115	116	24	110	111	111	23	116	117	119	23	113	115	117	24	115	115	118	17
7/28	114	114	115	24	110	111	111	23	116	117	118	23	113	115	116	24	115	115	117	17
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

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)
07/22/2005	---	---	---	---	0	35	21	0	0	19	0
07/23/2005 *	---	---	---	---	0	27	24	0	26	0	0
07/24/2005	---	---	---	---	0	3	0	2	0	0	0
07/25/2005	---	---	---	---	0	23	6	0	0	0	0
07/26/2005	---	---	---	---	0	7	9	0	0	24	0
07/27/2005	---	---	---	---	0	9	5	0	0	0	0
07/28/2005	---	---	---	---	0	7	2	0	0	0	0
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
<hr/>											
Total:	0	0	0	0	3	141	78	2	26	43	11
# Days:	0	0	0	0	14	14	14	14	14	14	14
Average:	0	0	0	0	0	10	6	0	2	3	1
YTD	43,641	42,830	5,792	1,810	5,673,857	2,477,171	706,765	14,795	1,226,429	1,409,350	1,527,240

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)
07/22/2005	---	---	---	---	889	2,703	2,789	240	11,190	27,969	7,942
07/23/2005 *	---	---	---	---	586	3,205	1,207	134	13,030	16,270	9,204
07/24/2005	---	---	---	---	417	1,578	789	224	14,730	10,024	6,590
07/25/2005	---	---	---	---	271	766	239	124	17,408	10,285	2,756
07/26/2005	---	---	---	---	258	607	224	199	22,508	27,376	3,769
07/27/2005	---	---	---	---	505	481	294	257	21,336	37,662	3,061
07/28/2005	---	---	---	---	373	815	125	202	16,508	21,052	4,955
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
<hr/>											
Total:	0	0	0	0	5,758	13,328	6,097	2,339	185,237	272,644	79,046
# Days:	0	0	0	0	14	14	14	14	14	14	14
Average:	0	0	0	0	411	952	436	167	13,231	19,475	5,646
YTD	0	86	1,224	1,152	1,743,592	1,282,313	206,393	21,611	6,868,502	2,241,442	3,787,693

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)
07/22/2005	---	---	---	---	0	3	0	6	0	55	0
07/23/2005	*	---	---	---	0	10	8	1	0	0	0
07/24/2005		---	---	---	0	7	0	2	0	0	0
07/25/2005		---	---	---	0	0	0	1	0	0	0
07/26/2005		---	---	---	0	2	0	0	28	72	0
07/27/2005		---	---	---	0	2	0	0	0	0	0
07/28/2005		---	---	---	0	0	0	5	0	0	0
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
<hr/>											
Total:	0	0	0	0	0	33	8	18	28	340	11
# Days:	0	0	0	0	14	14	14	14	14	14	14
Average:	0	0	0	0	0	2	1	1	2	24	1
YTD	0	0	0	110	305,059	191,764	24,364	37,190	103,701	192,544	771,252

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)
07/22/2005	---	---	---	---	0	10	7	4	0	126	0
07/23/2005	*	---	---	---	6	10	0	1	0	72	0
07/24/2005		---	---	---	0	17	14	0	0	0	0
07/25/2005		---	---	---	5	3	0	1	0	0	0
07/26/2005		---	---	---	0	3	0	2	0	96	16
07/27/2005		---	---	---	6	5	8	0	0	143	0
07/28/2005		---	---	---	2	7	0	0	0	72	0
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
<hr/>											
Total:	0	0	0	0	27	118	45	8	14	628	61
# Days:	0	0	0	0	14	14	14	14	14	14	14
Average:	0	0	0	0	2	8	3	1	1	45	4
YTD	3,754	35,536	2,454	7,263	5,935,701	2,922,136	675,512	15,971	196,392	526,106	186,489

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)
07/22/2005	---	---	---	---	3	0	0	4	0	36	0
07/23/2005 *	---	---	---	---	0	0	0	1	0	0	0
07/24/2005	---	---	---	---	0	0	0	2	0	0	0
07/25/2005	---	---	---	---	0	0	0	1	0	0	0
07/26/2005	---	---	---	---	0	2	0	5	14	0	16
07/27/2005	---	---	---	---	0	0	3	7	0	0	0
07/28/2005	---	---	---	---	0	0	0	6	14	0	0
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
<hr/>											
Total:	0	0	0	0	6	7	3	57	42	321	63
# Days:	0	0	0	0	14	14	14	14	14	14	14
Average:	0	0	0	0	0	1	0	4	3	23	5
YTD	115	0	0	263	38,437	41,458	8,216	1,948	103,599	84,367	41,903

* See sampling comments

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

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

Definitions for Smolt Index Counts

WTB (Collection) = Salmon River Trap at Whitebird : Collection Counts

IMN (Collection) = Imnaha River Trap : Collection Counts

GRN (Collection) = Grande Ronde River Trap : Collection Counts

LEW (Collection) = Snake River Trap at Lewiston : Collection Counts

LGR (Index) = Lower Granite Dam Bypass Collection System : Passage Index Counts

Passage Index = Collection Counts / {Powerhouse Flow / (Powerhouse Flow + Spill)}

LGS (Index) = Little Goose Bypass Collection System : Passage Index Counts

Passage Index = Collection Counts / {Powerhouse Flow / (Powerhouse Flow + Spill)}

LMN (Index) = Lower Monumental Dam Bypass Collection System : Passage Index Counts

Passage Index = Collection Counts / {Powerhouse Flow / (Powerhouse Flow + Spill)}

RIS (Index) = Rock Island Dam Second Powerhouse Bypass Trap : Passage Index Counts

Passage Index = Collection Counts / {Powerhouse 2 Flow / (Powerhouse 1 & 2 Flow + Spill)}

MCN (Index) = McNary Dam Bypass Collection System : Passage Index Counts

Passage Index = Collection Counts / {Powerhouse Flow / (Powerhouse Flow + Spill)}

JDA (Index) = John Day Dam Bypass Collection System : Passage Index Counts

Passage Index = Collection Counts / {Powerhouse Flow / (Powerhouse Flow + Spill)}

BO2 (Index) = Bonneville Dam Second Powerhouse Bypass Collection System : Passage Index Counts

Passage Index = Collection Counts / {Powerhouse 2 Flow / (Powerhouse 1 & 2 Flow + Spill)}

JDA and BO2 data collected for the FPC by Pacific States Marine Fisheries Commission.

RIS data collected for the FPC by Chelan Co. PUD/Washington Dept. of Fish and Wildlife.

LGR, LMN, and MCN data collected for the FPC by Washington Dept. of Fish and Wildlife.

LGS and GRN data collected for the FPC by Oregon Dept. of Fish and Wildlife.

Two Week Transportation Summary

Source: Fish Passage Center

Updated:

8/5/05 10:01 AM

07/23/05 TO 08/05/05

Site	Data	Species					Grand Total	
		CH0	CH1	CO	SO	ST		
LGR	Sum of NumberCollected	2,082	1			2	10	2,095
	Sum of NumberBarged	1,547	1			2	8	1,558
	Sum of NumberBypassed	19	0			0	0	19
	Sum of Numbertrucked	492	0			0	1	493
	Sum of SampleMorts	17	0			0	1	18
	Sum of FacilityMorts	7	0			0	0	7
	Sum of ResearchMorts	0	0			0	0	0
	Sum of TotalProjectMorts	24	0			0	1	25
LGS	Sum of NumberCollected	7,858	82	19		4	70	8,033
	Sum of NumberBarged	6,788	70	16		3	41	6,918
	Sum of NumberBypassed	31	0	0		0	0	31
	Sum of Numbertrucked	979	6	3		0	24	1,012
	Sum of SampleMorts	56	0	0		1	3	60
	Sum of FacilityMorts	4	6	0		0	2	12
	Sum of ResearchMorts	0	0	0		0	0	0
	Sum of TotalProjectMorts	60	6	0		1	5	72
LMN	Sum of NumberCollected	2,507	32	3		1	18	2,561
	Sum of NumberBarged	2,356	31	3		1	12	2,403
	Sum of NumberBypassed	51	0	0		0	1	52
	Sum of Numbertrucked	76	1	0		0	5	82
	Sum of SampleMorts	11	0	0		0	0	11
	Sum of FacilityMorts	13	0	0		0	0	13
	Sum of ResearchMorts	0	0	0		0	0	0
	Sum of TotalProjectMorts	24	0	0		0	0	24
MCN	Sum of NumberCollected	54,845	8	8		12	4	54,877
	Sum of NumberBarged	49,647	2	7		12	0	49,668
	Sum of NumberBypassed	1,250	0	0		0	0	1,250
	Sum of Numbertrucked	4,736	0	0		0	4	4,740
	Sum of SampleMorts	250	0	0		0	0	250
	Sum of FacilityMorts	941	6	1		0	0	948
	Sum of ResearchMorts	6	0	0		0	0	6
	Sum of TotalProjectMorts	1,197	6	1		0	0	1,204
Total Sum of NumberCollected		67,292	123	30		19	102	67,566
Total Sum of NumberBarged		60,338	104	26		18	61	60,547
Total Sum of NumberBypassed		1,351	0	0		0	1	1,352
Total Sum of Numbertrucked		6,283	7	3		0	34	6,327
Total Sum of SampleMorts		334	0	0		1	4	339
Total Sum of FacilityMorts		965	12	1		0	2	980
Total Sum of ResearchMorts		6	0	0		0	0	6
Total Sum of TotalProjectMorts		1,305	12	1		1	6	1,325

YTD Transportation Summary

Source: Fish Passage Center

Updated:

8/5/05 10:01 AM

TO: 08/05/05

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	1,572,818	5,537,384	286,007	31,621	5,590,778	13,018,608
	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	448,421	766,914
	Sum of NumberTrucked	896	8,883	871	487	43,016	54,153
	Sum of SampleMorts	447	453	16	16	71	1,003
	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	12,538	14,162	1,210	358	5,333	33,601
LGS	Sum of NumberCollected	1,193,881	2,452,388	186,031	38,861	2,857,419	6,728,580
	Sum of NumberBarged	1,137,182	2,016,970	151,296	37,811	2,277,111	5,620,370
	Sum of NumberBypassed	50,480	428,573	34,636	938	571,464	1,086,091
	Sum of NumberTrucked	2,835	244	13	47	386	3,525
	Sum of SampleMorts	226	128	12	6	74	446
	Sum of FacilityMorts	3,158	6,453	75	59	8,384	18,129
	Sum of ResearchMorts	0	20	0	0	0	20
	Sum of TotalProjectMorts	3,384	6,601	87	65	8,458	18,595
LMN	Sum of NumberCollected	176,798	670,860	21,559	7,344	614,114	1,490,675
	Sum of NumberBarged	168,777	512,012	17,036	7,156	456,619	1,161,600
	Sum of NumberBypassed	7,498	145,571	4,521	99	154,901	312,590
	Sum of NumberTrucked	76	12,713	0	60	2,240	15,089
	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
MCN	Sum of NumberCollected	4,202,172	722,362	61,223	60,054	119,415	5,165,226
	Sum of NumberBarged	2,877,055	17,125	931	1,075	5,462	2,901,648
	Sum of NumberBypassed	1,295,173	702,217	60,102	58,589	113,558	2,229,639
	Sum of NumberTrucked	4,736	0	0	0	4	4,740
	Sum of SampleMorts	727	120	8	18	8	881
	Sum of FacilityMorts	24,347	2,824	176	360	380	28,087
	Sum of ResearchMorts	134	76	6	12	3	231
	Sum of TotalProjectMorts	25,208	3,020	190	390	391	29,199
Total Sum of NumberCollected		7,145,669	9,382,994	554,820	137,880	9,181,726	26,403,089
Total Sum of NumberBarged		5,729,286	7,781,841	426,903	76,328	7,833,200	21,847,558
Total Sum of NumberBypassed		1,366,263	1,554,966	125,545	60,116	1,288,344	4,395,234
Total Sum of NumberTrucked		8,543	21,840	884	594	45,646	77,507
Total Sum of SampleMorts		1,532	741	36	43	179	2,531
Total Sum of FacilityMorts		39,818	23,407	1,447	787	14,352	79,811
Total Sum of ResearchMorts		227	199	6	12	5	449
Total Sum of TotalProjectMorts		41,577	24,347	1,489	842	14,536	82,791

Cumulative Adult Passage at Mainstem Dams Through: 08/04

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	1,050	102	2,941	312	1,672	290
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	184	10	838	101	322	60
JDA	55,877	2,715	112,153	6,367	82,666	4,703	62,329	5,168	71,990	10,437	43,947	5,132	0	0	0	0	0	0
MCN	51,857	3,201	107,497	7,682	76,092	4,941	62,879	2,971	64,119	8,520	43,093	4,968	0	0	0	0	0	0
IHR	28,040	1,267	77,106	4,646	51,680	3,159	8,743	965	13,074	2,994	10,162	1,800	0	0	0	0	0	0
LMN	25,783	1,002	71,578	3,785	49,507	2,979	8,223	774	10,534	2,183	9,674	1,473	0	0	0	0	0	0
LGS	23,961	929	62,458	3,404	47,589	3,042	6,865	959	9,235	2,242	8,435	1,722	0	0	0	0	0	0
LWG	26,028	1,258	70,742	4,482	47,410	3,274	6,646	1,057	8,702	2,482	8,534	1,879	0	0	0	0	0	0
PRD	14,148	515	13,521	1,020	15,454	477	59,459	1,870	64,133	5,334	36,784	1,606	0	0	0	0	0	0
RIS	11,908	476	10,918	958	12,149	699	50,125	2,228	58,055	4,381	32,504	3,655	0	0	0	0	0	0
RRH	4,568	399	4,365	734	4,426	242	38,219	1,935	37,541	7,156	22,504	2,200	0	0	0	0	0	0
WEL	4,897	99	4,615	178	3,006	190	25,047	477	25,943	879	15,156	772	0	0	0	0	0	0
WFA	35,398	1,179	96,146	746	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
	Adult	Jack	Adult	Jack	Adult	Jack						2005	
BON	0	-1	2	2	11	1	72,496	123,176	53,670	115,891	105,037	111,264	43,003
TDA	3	0	0	0	0	0	61,569	107,423	44,437	42,288	34,741	48,433	20,633
JDA	5	-13	0	0	2	0	65,820	113,413	48,081	32,510	30,397	34,146	13,347
MCN	0	0	0	0	0	0	63,435	89,679	41,344	24,692	20,816	24,204	9,728
IHR	0	7	0	0	0	0	18	91	24	8,000	14,099	11,904	2,522
LMN	0	0	2	0	0	0	16	73	28	7,694	9,815	9,994	2,503
LGS	0	0	0	0	0	0	14	80	32	4,429	5,958	6,502	1,576
LWG	0	0	0	0	0	0	16	113	32	7,621	10,839	9,589	2,641
PRD	0	1	0	0	3	0	74,258	124,729	51,713	2,353	4,524	2,522	n/a
RIS	2	0	0	0	1	0	70,039	106,358	46,632	1,919	3,433	1,626	1,323
RRH	0	0	0	0	1	0	52,772	80,895	31,695	1,331	2,670	1,068	955
WEL	0	0	0	0	0	0	52,626	76,981	30,479	501	1,194	511	310
WFA	0	0	0	0	n/a	n/a	0	0	n/a	19,071	43,445	n/a	n/a

WFA is through 07/31; RIS, RRH and WEL are through 8/3.

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: 08/05/05

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
2,758

