Fish Passage Center

Weekly Report #05 - 24

August 19, 2005

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Highlights:

- **River flows at Lower Granite Dam have averaged 36.3 Kcfs between June 21-August 18 and 22.8 Kcfs last week.**

- **River flows at McNary Dam have averaged 172.8 Kcfs July 1st through August 18th and 142.7 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:

Precipitation has been well below average over the first fifteen 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 fifteen 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 1-15		Water Year 2005 October 1, 2004 to 15-Aug-05	
	Observed (inches)	% Average	Observed (inches)	% Average
Columbia Above Coulee	0.3	37	21.38	92
Snake River Above Ice Harbor	0.22	53	15.99	97
Columbia Above The Dalles	0.22	38	18.95	88
Kootenai	0.41	50	21.84	92
Clark Fork	0.24	39	13	81
Flathead	0.4	52	20.77	98
Pend Oreille/Spokane	0.22	36	25.51	87
Central Washington	0	2	6.67	78
Snake River Plain	0.05	19	12.25	117
Salmon/Boise/ Payette	0.18	54	15.51	83
Clearwater	0.04	8	23.9	83
SW Washington Cascades/Cowlitz	0	0	49.49	73
Willamette Valley	0	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 36.3 Kcfs between June 21-August 18 and 22.8 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 172.8 Kcfs July 1st through August 18th and 142.7 Kcfs last week.

Grand Coulee Reservoir is currently at an elevation of 1281.7 feet (August 18th, 2005 midnight) and has drafted 1.5 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 2443.7 feet (8-18-05) and drafted 2.9 feet last week. Outflows at Libby are currently 16.5 Kcfs. Libby is projected to draft to elevation 2439 feet by the end of August.

Hungry Horse is currently at an elevation of 3544.6 feet (August 18th, 2005 midnight) and has drafted 2.3 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 1547.1 feet (August 18th, 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 2052.5 feet on August 18th, 2005 with outflows ranging between 6.0 and 10.3 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 to gas cap spill during nighttime hours and 30% of instantaneous flow during daytime hours to address concerns regarding adult passage at this project. An oil spill occurred at this project on August 17th and spill was interrupted for a few hours to allow a boat to access the area and deploy an oil boom. At Lower Monumental Dam spill is presently being provided as the volume in excess of that needed to operate one unit. Spill averaged 50% of daily average flows at Lower Granite, 37% of daily average flows at Little Goose, 45% of daily average flows at Lower Monumental and 55% 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 61% 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 39%, close to the percentage specified in the Biological Opinion. Spill at Bonneville Dam averaged 60% 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 the SMP sites. At Lower Granite Dam in the Lower Snake River the subyearling Chinook average passage index decreased to about 150 per day this week compared to 400 the previous week. Based on PIT-tag data for the Big Canyon Creek release of surrogate hatchery fish the collection efficiency at Lower Granite 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.

At Little Goose and Lower Monumental dams the subyearling Chinook indices were down with the index at Little Goose falling to 120 per day average this week while the index stayed around 20 per day this week at Lower Monumental Dam, except for August 18th when it exceeded 100 fish per day.

In the Mid-Columbia, at Rock Island Dam, subyearling indices were down this week, with the weekly average index at 20 compared to 58 last week.

At McNary Dam indices for subyearlings were lower this week. The average index fell to 1,450 per day compared to 6,400 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 2,200 this week compared to 5,000 last week, while at Bonneville Dam the subyearling index averaged near 1,000 this past week down from 2,000 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. Note that 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. 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 scheduled.

Adult Fish Passage: As a whole, water temperatures in the Columbia River are remaining in the 70°F range at most projects and will certainly affect numbers of fish passing through the river. Numbers of fall Chinook salmon at Bonneville Dam actually reduced the last 3-days of the counting week with the low count for the week on August 18 of only 184 adult Chinook for the day. The daily average for the week ending August 18 was 451 with the season total of 6,418; about 54.1% and 57.6% of the respective 2004 and 10-year average. The fish that have passed Bonneville Dam appear to be moving upstream through the projects at a normal pace as the counts are fairly similar to the 2004 and 10-year average at these dams. Expectations are that the fall Chinook run should again be strong this year, and numbers should rapidly increase at Bonneville and upriver projects as Columbia River temperatures reduce to more tolerable levels for the fish.

At Bonneville Dam, steelhead counts ranged between 2,700 and 4,800 through the week with the average count of 3,412 per day for the week ending August 18. This year's total of 167,031 is near equal the 2004 count of 166,814 as well as the 10-year average of 172,453 through August 18th. The daily counts at the Dalles Dam ranged between 500-1,000 for the week with the cumulative steelhead count through August 18 at 51,291. About 31% of the steelhead counted at Bonneville have passed The Dalles Dam. 30,852 steelhead have been tallied at McNary Dam with about 12,000 counted into the Snake River (Ice Harbor). The cumulative count at Priest Rapids Dam is 4,239.

Basically the adult sockeye salmon run is nearly completed for the year with 71,100 counted at Rock Island Dam through August 16 and 55,300 continuing above Rocky Reach Dam. About 78% of the sockeye run is enroute to Lake Osoyoos (Okanogan basin) with about 15,800 destined for the Lake Wenatchee system.

The coho salmon run at Bonneville Dam is just beginning with only 62 adult fish counted to date. This total is less than the 2004 and 10-year average, but numbers should increase through August and September.

Hatchery Zone Release Report

	Thursday 18-Aug-2005				
	SNAKE	MCOL	LCOL	BBON	TOTAL
FA Chinook	4,907,703	12,449,054	21,567,139	20,773,697	59,697,593
SP Chinook	9,440,350	5,158,571	5,157,183	10,957,070	30,713,174
SU 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
SU Steelhead	8,887,764	1,188,619	523,769	1,523,905	12,124,057
WI 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

FA = fall, WI = winter, SP = spring, SU = summer

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

	Grand Coulee		Chief Joseph		Wells		Rocky Reach		Rock Island		Wanapum		Priest Rapids	
Date	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill
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
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

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

	Dworshak		Brownlee	Hells Canyon	Lower Granite		Little Goose		Lower Monumental		Ice Harbor	
Date	Flow	Spill	Inflow	Outflow	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill
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	8.3	8.6	26.0	14.1	32.7	13.3	30.6	18.4	33.5	22.7
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	---	---	23.0	11.0	26.0	10.1	23.9	11.6	26.2	16.4

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

	McNary		John Day		The Dalles		Bonneville			
Date	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	PH1	PH2
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
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

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

Site	Date	Species	Number of Fish	Number w GBT signs	Number w Fin Signs	% Fin GBT	% Severe Fin GBT	Number of Fish with Fin GBT Listed by Highest Rank: Rank 1	Rank 2	Rank 3	Rank 4
Little Goose Dam											
	08/07/05	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
Lower Monumental Dam											
	08/08/05	Chinook + Steelhead	1	0	0	0.00%	0.00%	0	0	0	0
	08/12/05	Chinook + Steelhead	1	0	0	0.00%	0.00%	0	0	0	0
McNary Dam											
	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
	08/15/05	Chinook + Steelhead	67	0	0	0.00%	0.00%	0	0	0	0
Bonneville Dam											
	08/09/05	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	08/12/05	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	08/16/05	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
Rock Island Dam											
	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

No hatchery releases for the last or next two weeks.

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

Total Dissolved Gas Saturation Data at Upper Columbia River Sites

	Hungry H. Dnst				Boundary				Grand Coulee				Grand C. Tlwr				Chief Joseph			
	24 h	12 h		#	24 h	12 h		#	24 h	12 h		#	24 h	12 h		#	24 h	12 h		#
Date	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr
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
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

Total Dissolved Gas Saturation Data at Mid Columbia River Sites

	Chief J. Dnst				Wells				Wells Dwnstrm				Rocky Reach				Rocky R. Tlwr			
	24 h	12 h		#	24 h	12 h		#	24 h	12 h		#	24 h	12 h		#	24 h	12 h		#
Date	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr
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
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

Total Dissolved Gas Saturation at Mid Columbia River Sites

	Rock Island				Rock I. Tlwr				Wanapum				Wanapum Tlwr				Priest Rapids			
	24 h	12 h		#	24 h	12 h		#	24 h	12 h		#	24 h	12 h		#	24 h	12 h		#
Date	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr
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
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

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

	Priest R. Dnst				Pasco				Dworshak				Clrwtr-Peck				Anatone			
	24 h	12 h		#	24 h	12 h		#	24 h	12 h		#	24 h	12 h		#	24 h	12 h		#
Date	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr
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
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

Total Dissolved Gas Saturation Data at Snake River Sites

	Clrwtr-Lewiston				Lower Granite				L. Granite Tlwr				Little Goose				L. Goose Tlwr			
	24 h	12 h		#	24 h	12 h		#	24 h	12 h		#	24 h	12 h		#	24 h	12 h		#
Date	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr
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
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

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

	Lower Mon.				L. Mon. Tlwr				Ice Harbor				Ice Harbor Tlwr				McNary-Oregon			
	24 h	12 h		#	24 h	12 h		#	24 h	12 h		#	24 h	12 h		#	24 h	12 h		#
Date	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr
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
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

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

	McNary-Wash				McNary Tlwr				John Day				John Day Tlwr				The Dalles			
	24 h	12 h		#	24 h	12 h		#	24h	12h		#	24h	12h		#	24h	12h		#
Date	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	AVG	High	hr
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
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

Total Dissolved Gas Saturation Data at Lower Columbia River Sites

	The Dalles Dnst				Bonneville				Warrendale				Camas\Washougal				Cascade Island			
	24 h	12 h		#	24 h	12 h		#	24h	12h		#	24h	12h		#	24h	12h		#
Date	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr
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
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

Two-Week Summary of Passage Indices

Source: Fish Passage Center Updated: 8/19/2005 6:50

Two-Week Summary of Passage Indices

* One or more of the sites on this date had an incomplete or biased sample.
See Sampling Comments: http://www.fpc.org/currentDaily/smpcomments.htm
For clip information see: http://www.fpc.org/CurrentDaily/catch.htm
For sockeye and yearling chinook (Snake only) race information see: http://www.fpc.org/smoltqueries/currentsmpsubmitdata.asp

				COMBINED YEARLING CHINOOK								
		WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2
Date		(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)
08/05/2005		---	---	---	---	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		---	---	---	---	0	2	0	0	0	0	0
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
Total:		**0**	**0**	**0**	**0**	**2**	**15**	**4**	**2**	**0**	**121**	**0**
# Days:		**0**	**0**	**0**	**0**	**14**	**14**	**14**	**14**	**14**	**14**	**14**
Average:		**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**9**	**0**
YTD		**43,641**	**42,830**	**5,792**	**1,810**	**5,673,859**	**2,477,186**	**706,769**	**14,797**	**1,226,429**	**1,409,471**	**1,527,240**

				COMBINED SUBYEARLING CHINOOK								
		WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2
Date		(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)
08/05/2005		---	---	---	---	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		---	---	---	---	237	144	11	19	1,769	6,929	1,645
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
Total:		**0**	**0**	**0**	**0**	**3,873**	**2,831**	**317**	**440**	**52,663**	**51,807**	**20,262**
# Days:		**0**	**0**	**0**	**0**	**14**	**14**	**14**	**14**	**14**	**14**	**14**
Average:		**0**	**0**	**0**	**0**	**277**	**202**	**23**	**31**	**3,762**	**3,701**	**1,447**
YTD		**0**	**86**	**1,224**	**1,152**	**1,747,465**	**1,285,144**	**206,710**	**22,051**	**6,921,165**	**2,293,249**	**3,805,247**

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)
08/05/2005		---	---	---	---	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		---	---	---	---	2	0	0	0	13	0	0
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
Total:		**0**	**0**	**0**	**0**	**4**	**4**	**5**	**3**	**13**	**19**	**12**
# Days:		**0**	**0**	**0**	**0**	**14**	**14**	**14**	**14**	**14**	**14**	**14**
Average:		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**1**	**1**
YTD		**0**	**0**	**0**	**110**	**305,063**	**191,768**	**24,369**	**37,193**	**103,714**	**192,563**	**771,264**

				COMBINED STEELHEAD								
		WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2
Date		(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)
08/05/2005		---	---	---	---	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		---	---	---	---	0	12	0	0	0	0	0
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
Total:		**0**	**0**	**0**	**0**	**5**	**95**	**23**	**2**	**0**	**175**	**12**
# Days:		**0**	**0**	**0**	**0**	**14**	**14**	**14**	**14**	**14**	**14**	**14**
Average:		**0**	**0**	**0**	**0**	**0**	**7**	**2**	**0**	**0**	**13**	**1**
YTD		**3,754**	**35,536**	**2,454**	**7,263**	**5,935,706**	**2,922,231**	**675,535**	**15,973**	**196,392**	**526,281**	**186,501**

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)
08/05/2005		---	---	---	---	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		---	---	---	---	2	0	0	1	26	0	0
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
Total:		**0**	**0**	**0**	**0**	**12**	**0**	**0**	**24**	**50**	**88**	**0**
# Days:		**0**	**0**	**0**	**0**	**14**	**14**	**14**	**14**	**14**	**14**	**14**
Average:		**0**	**0**	**0**	**0**	**1**	**0**	**0**	**2**	**4**	**6**	**0**
YTD		**115**	**0**	**0**	**263**	**38,449**	**41,458**	**8,216**	**1,972**	**103,649**	**84,455**	**41,903**

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

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

Definitions for Smolt Index Counts

WTB (Collection) = Salmon River Trap at Whitebird : Collection Counts
IMN (Collection) = Imnaha River Trap : Collection Counts
GRN (Collection) = Grande Ronde River Trap : Collection Counts
LEW (Collection) = Snake River Trap at Lewiston : Collection Counts
LGR (Index) = Lower Granite Dam Bypass Collection System : Passage Index Counts
  Passage Index = Collection Counts / {Powerhouse Flow / (Powerhouse Flow + Spill)}
LGS (Index) = Little Goose Bypass Collection System : Passage Index Counts
  Passage Index = Collection Counts / {Powerhouse Flow / (Powerhouse Flow + Spill)}
LMN (Index) = Lower Monumental Dam Bypass Collection System : Passage Index Counts
  Passage Index = Collection Counts / {Powerhouse Flow / (Powerhouse Flow + Spill)}
RIS (Index) = Rock Island Dam Second Powerhouse Bypass Trap : Passage Index Counts
  Passage Index = Collection Counts / {Powerhouse 2 Flow / (Powerhouse 1 & 2 Flow + Spill)}
MCN (Index) = McNary Dam Bypass Collection System : Passage Index Counts
  Passage Index = Collection Counts / {Powerhouse Flow / (Powerhouse Flow + Spill)}
JDA (Index) = John Day Dam Bypass Collection System : Passage Index Counts
  Passage Index = Collection Counts / {Powerhouse Flow / (Powerhouse Flow + Spill)}
BO2 (Index) = Bonneville Dam Second Powerhouse Bypass Collection System : Passage Index Counts
  Passage Index = Collection Counts / {Powerhouse 2 Flow / (Powerhouse 1 & 2 Flow + Spill)}

JDA and BO2 data collected for the FPC by Pacific States Marine Fisheries Commission.
RIS data collected for the FPC by Chelan Co. PUD/Washington Dept. of Fish and Wildlife.
LGR, LMN, and MCN data collected for the FPC by Washington Dept. of Fish and Wildlife.
LGS and GRN data collected for the FPC by Oregon Dept. of Fish and Wildlife.
IMN data collected for the FPC by the Nez Perce Tribe.

Two Week Transportation Summary

Source: Fish Passage Center Updated: 8/19/05 6:53 AM

08/06/05 TO 08/19/05

		Species					
Site	Data	**CH0**	**CH1**	**CO**	**SO**	**ST**	**Grand Total**
LGR	Sum of NumberCollected	1,610	1	2	6	2	1,621
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	1	0	0	0	1	2
	Sum of Numbertrucked	1,603	1	2	6	1	1,613
	Sum of SampleMorts	6	0	0	0	0	6
	Sum of FacilityMorts	0	0	0	0	0	0
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	6	0	0	0	0	6
LGS	Sum of NumberCollected	1,676	8	2		56	1,742
	Sum of NumberBarged	0	0	0		0	0
	Sum of NumberBypassed	1	0	0		0	1
	Sum of Numbertrucked	1,663	8	2		55	1,728
	Sum of SampleMorts	9	0	0		0	9
	Sum of FacilityMorts	3	0	0		0	3
	Sum of ResearchMorts	0	0	0		0	0
	Sum of TotalProjectMorts	12	0	0		0	12
LMN	Sum of NumberCollected	156	2	2		10	170
	Sum of NumberBarged	0	0	0		0	0
	Sum of NumberBypassed	2	0	0		0	2
	Sum of Numbertrucked	153	2	2		10	167
	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
MCN	Sum of NumberCollected	17,896		4	16		17,916
	Sum of NumberBarged	0		0	0		0
	Sum of NumberBypassed	18		0	0		18
	Sum of Numbertrucked	17,546		2	16		17,564
	Sum of SampleMorts	82		0	0		82
	Sum of FacilityMorts	250		2	0		252
	Sum of ResearchMorts	0		0	0		0
	Sum of TotalProjectMorts	332		2	0		334
Total Sum of NumberCollected		21,338	11	10	22	68	21,449
Total Sum of NumberBarged		0	0	0	0	0	0
Total Sum of NumberBypassed		22	0	0	0	1	23
Total Sum of Numbertrucked		20,965	11	8	22	66	21,072
Total Sum of SampleMorts		98	0	0	0	0	98
Total Sum of FacilityMorts		253	0	2	0	0	255
Total Sum of ResearchMorts		0	0	0	0	0	0
Total Sum of TotalProjectMorts		351	0	2	0	0	353

YTD Transportation Summary

Source: Fish Passage Center Updated: 8/19/05 6:53 AM

TO: 08/19/05

		Species					
Site	Data	**CH0**	**CH1**	**CO**	**SO**	**ST**	**Grand Total**
LGR	Sum of NumberCollected	1,574,428	5,537,385	286,009	31,627	5,590,780	13,020,229
	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	2,499	8,884	873	493	43,017	55,766
	Sum of SampleMorts	453	453	16	16	71	1,009
	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	12,544	14,162	1,210	358	5,333	33,607
LGS	Sum of NumberCollected	1,195,557	2,452,396	186,033	38,861	2,857,475	6,730,322
	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	4,498	252	15	47	441	5,253
	Sum of SampleMorts	235	128	12	6	74	455
	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	3,396	6,601	87	65	8,458	18,607
LMN	Sum of NumberCollected	176,954	670,862	21,561	7,344	614,124	1,490,845
	Sum of NumberBarged	168,777	512,012	17,036	7,156	456,619	1,161,600
	Sum of NumberBypassed	7,500	145,571	4,521	99	154,901	312,592
	Sum of NumberTrucked	229	12,715	2	60	2,250	15,256
	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
MCN	Sum of NumberCollected	4,220,068	722,362	61,227	60,070	119,415	5,183,142
	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	22,282	0	2	16	4	22,304
	Sum of SampleMorts	809	120	8	18	8	963
	Sum of FacilityMorts	24,597	2,824	178	360	380	28,339
	Sum of ResearchMorts	134	76	6	12	3	231
	Sum of TotalProjectMorts	25,540	3,020	192	390	391	29,533
Total Sum of NumberCollected		7,167,007	9,383,005	554,830	137,902	9,181,794	26,424,538
Total Sum of NumberBarged		5,729,286	7,781,841	426,903	76,328	7,833,200	21,847,558
Total Sum of NumberBypassed		1,366,285	1,554,966	125,545	60,116	1,288,345	4,395,257
Total Sum of NumberTrucked		29,508	21,851	892	616	45,712	98,579
Total Sum of SampleMorts		1,630	741	36	43	179	2,629
Total Sum of FacilityMorts		40,071	23,407	1,449	787	14,352	80,066
Total Sum of ResearchMorts		227	199	6	12	5	449
Total Sum of TotalProjectMorts		41,928	24,347	1,491	842	14,536	83,144

Cumulative Adult Passage at Mainstem Dams Through: 08/18

	Spring Chinook						Summer Chinook						Fall Chinook					
	2005		2004		10-Yr Avg.		2005		2004		10-Yr Avg.		2005		2004		10-Yr Avg.	
DAM	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	6,418	750	11,871	1,331	11,147	1,391
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	4,052	331	4,604	812	5,337	956
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	2,581	463	2,283	872	2,922	728
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	1,882	189	1,205	329	1,992	426
IHR	28,039	1,267	77,106	4,646	51,680	3,159	8,837	983	13,173	3,012	10,235	1,807	89	12	62	24	96	11
LMN	25,933	1,002	71,578	3,785	49,507	2,979	8,347	802	10,593	2,196	9,755	1,500	67	13	52	9	62	18
LGS	23,995	923	62,458	3,404	47,589	3,042	6,970	974	9,304	2,263	8,528	1,742	46	8	31	6	35	5
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	2	1	1	2	6	3
PRD	14,148	515	13,521	1,020	15,454	477	62,172	1,900	67,060	5,613	39,202	1,885	840	2	516	86	743	117
RIS	11,908	504	10,918	958	12,149	699	53,717	2,430	62,074	4,814	35,872	4,413	0	0	0	0	0	0
RRH	4,568	417	4,365	734	4,426	242	41,303	2,186	41,009	7,947	25,841	2,805	0	0	0	0	0	0
WEL	4,897	99	4,615	178	3,006	190	29,163	596	30,161	1,213	18,189	1,131	0	0	0	0	0	0
WFA	35,453	1,180	96,319	757	n/a	n/a	---	---	---	---	---	---	0	0	4	0	n/a	n/a

	Coho						Sockeye			Steelhead			
	2005		2004		10-Yr Avg.				10-Yr			10-Yr	Wild
DAM	Adult	Jack	Adult	Jack	Adult	Jack	2005	2004	Avg.	2005	2004	Avg.	2005
BON	62	28	148	16	207	39	72,424	123,281	53,715	167,031	166,814	172,453	56,672
TDA	2	0	1	0	8	1	64,999	107,464	44,476	51,291	40,697	67,037	24,092
JDA	8	-13	1	2	5	0	69,058	113,482	48,139	39,392	35,316	46,277	15,855
MCN	0	0	1	2	0	0	63,521	89,696	41,395	30,852	24,095	34,294	11,895
IHR	0	7	0	0	0	0	18	91	24	12,227	16,279	17,126	3,449
LMN	0	0	2	0	0	0	17	79	28	10,803	11,324	14,366	3,349
LGS	0	0	0	0	0	0	14	80	32	6,662	7,671	9,321	2,249
LGR	0	0	0	0	0	0	17	113	32	8,708	11,462	11,484	3,061
PRD	*	2	2	1	5	0	74,663	124,898	52,041	4,239	5,766	4,194	n/a
RIS	2	0	3	0	1	0	71,112	106,588	47,239	3,517	4,749	3,052	2,273
RRH	0	0	0	0	1	0	55,349	81,204	32,288	2,349	3,805	2,041	1,476
WEL	0	0	0	0	0	0	54,395	77,762	31,449	1,052	1,917	1,154	553
WFA	0	0	0	0	n/a	n/a	0	0	n/a	19,121	43,580	n/a	n/a

WFA is through 08/15; RRH and RIS are through 08/16; PRD and WEL are through 08/17.
* Coho counts at PRD are incorrect and have been excluded. PRD is missing 8/12, 8/13, 8/14.
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: 08/19/05

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
3,845