Fish Passage Center

Weekly Report #08 - 27

September 5, 2008

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Summary of Events:

Water Supply: Precipitation throughout the Columbia Basin has varied between 34% and 158% of average at individual sub-basins over August. Precipitation above The Dalles has been 112% of average over August. Over the entire water year, precipitation has generally been near average.

Table 1. Summary of August 1-25 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 2008 August 1-25		Water Year 2008 October 1, 2007 to August 25, 2008	
	Observed (inches)	% Average	Observed (inches)	% Average
Columbia Above Coulee	1.64	121	23.05	97
Snake River Above Ice Harbor	0.43	62	15.79	94
Columbia Above The Dalles	1.07	112	21.25	97
Kootenai	1.79	131	21.59	89
Clark Fork	1.12	107	17.11	104
Flathead	1.24	96	21.47	99
Pend Oreille/ Spokane	1.36	133	29.54	100
Central Washington	0.27	88	6.07	70
Snake River Plain	0.16	34	8.11	76
Salmon/Boise/ Payette	0.30	52	18.65	98
Clearwater	1.50	155	29.15	100
SW Washington Cascades/Cowlitz	1.96	158	63.06	92
Willamette Valley	1.34	156	58.56	102

The summer Biological Opinion flow target at Lower Granite Dam was 52.5 Kcfs this year. Flows at Lower Granite Dam averaged 57.0 Kcfs between June 21st, 2008 and August 31st, 2008.

The summer Biological Opinion flow target at McNary Dam was 200 Kcfs and began on July 1, 2008. Flows at McNary Dam averaged 172.8 Kcfs over the summer flow period (July 1-August 31).

Grand Coulee Reservoir was at 1280.2 feet on 8-31-08, very close to its end of August draft elevation of 1280.0 feet. Grand Coulee is currently at 1280.1 feet (9-4-08) and outflows have ranged between 61.1 and 106.8 Kcfs over the last week. Inflows last week have ranged between 76.6 Kcfs and 87.5 Kcfs.

The Libby Reservoir ended August at an elevation of 2441.7 feet (8-31-08), very close to the 60 Ksfd Libby/Canadian Storage Exchange elevation at Libby of 2441.8 feet. Inflows at Libby have ranged between 6.3 Kcfs and 8.0 Kcfs over the last week. Outflows at Libby have been 8.0 Kcfs over September.

Hungry Horse ended August at an elevation of 3540.9 ft (8-31-08), 0.9 feet above its summer draft elevation of 3540 feet. Outflows at Hungry Horse have been reduced to 4.1 Kcfs; inflows have ranged between 0.6 Kcfs and 2.2 Kcfs last week.

Dworshak ended August at an elevation of 1535.3 feet (8-31-08), very close to its end of August draft target of 1535 feet. Dworshak will continue to draft to elevation 1520 feet by mid September, Dworshak is currently (9-4-08) at 1529.7 feet. Outflows at Dworshak have been reduced to full powerhouse capacity, which is approximately 10.5 Kcfs. Inflows have ranged between 0.9 and 1.7 Kcfs last week.

The Brownlee Reservoir is at an elevation of 2052.7 feet (September 4th, 2008), and has drafted 1.7 feet last week. Outflows at Brownlee Dam have been 8.5 to 18.1 Kcfs over the last week. Inflows at Brownlee Dam have been 7.9 to 13.4 Kcfs over the last week.

Spill: The summer spill season was initiated on June 21, 2008 and ended at midnight on August 31, 2008 in the Snake River. The Court Order called for the following spill levels at the Federal Snake River Projects:

Project	Day/Night Spill
Lower Granite	18 Kcfs/18 Kcfs
Little Goose	30%/30%
Lower Monumental	17 Kcfs/17 Kcfs
Ice Harbor	30%/30% vs 45 Kcfs/Gas Cap Study

Spill at Dworshak Dam ended early on the morning of September 1, 2008. All other Snake River projects spilled to the Court Order until midnight August 31, with the exception of Lower Monumental Dam. Spill at Lower Monumental Dam exceeded the Court Order to allow the projects downstream to spill the court ordered amounts.

Summer spill in the Lower Columbia River was initiated on July 1, 2008 and ended at midnight on August 31, 2008. The Court Order called for the following summer spill levels at the Federal Lower Columbia River Projects:

Project	Day/Night Spill
McNary	60%/60% vs 40%/40%
John Day	30%/30% vs 40%/40% test days
The Dalles	40%/40%
Bonneville	75 Kcfs/Gas Cap (after completion of 85 Kcfs Test)

Spill at McNary, John Day, The Dalles and Bonneville dams occurred according the Court Order over the final three days of August.

Total dissolved gas did not exceed the 120% tailrace or 115% forebay limits this past week, except for the Camas Washougal monitor. On August 29th, the 12-hour average TDG at the Camas Washougal monitor was 115.9%.

Sampling occurred at Little Goose, McNary and Bonneville dams this past week. There were no detections of GBT at any of these Snake or Lower Columbia projects this week. Sampling for GBT ended on August 31st.

Smolt Monitoring: Sampling ended August 31 at Rock Island Dam. At all SMP sites subyearling Chinook are the primary salmonid species that continue to be collected at present. A small but unusual number of sockeye (possibly kokanee) fry have been collected at Lower Granite Dam over the past few weeks. The small size suggests these fish may have been flushed from Dworshak Reservoir. At Lower Granite Dam in the Snake River the daily passage indices for subyearling Chinook averaged about 300 per day this past week compared to 800 per day the previous week. PIT-tag data suggest that hatchery origin fish predominate—especially releases from Big Canyon Creek. Passage indices continued to decline at Little Goose Dam.

At Rock Island Dam indices for subyearling Chinook dropped to less than 10 per day this past week compared to 20 per day last week. At the lower Columbia River dams indices for subyearling Chinook were down at McNary Dam this week. The subyearling Chinook index averaged 2,300 fish per day this past week compared to over 8,000 per day last week. At John Day Dam daily sampling has resumed with the decreased temperatures in the river. Passage indices averaged 2,000 fish per day over the past 4 days. The previous weeks' samples were limited in duration and therefore not representative of total passage. Sampling at Bonneville Dam has returned to every day sampling as well. At that site indices for subyearling Chinook averaged about 1,000 per day this week which is about half of last weeks average of 2,050.

Hatchery Releases:

Snake River Zone: The Snake River Zone encompasses the Snake River and its tributaries from its confluence with the Columbia River to Hells Canyon Dam. There were no scheduled releases of juvenile salmonids to this zone this week and no releases are scheduled over the next two weeks.

Mid-Columbia Zone: The Mid-Columbia Zone encompasses the area of the Columbia River and its tributaries from McNary Dam to Chief Joseph Dam. There were no releases of juvenile salmonids to the Mid-Columbia river zone this week. Furthermore, no releases are scheduled for this zone over the next two weeks.

Lower Columbia Zone: The Lower Columbia Zone is defined as the Columbia River and its tributaries from Bonneville Dam to McNary Dam. There were no scheduled releases of juvenile salmonids to this zone this week and no releases are scheduled over the next two weeks.

Adult Fish Passage:

Fall Chinook begin to pass Bonneville Dam on August 1st. Daily counts of adult fall Chinook ranged from 9,264 to 15,301. The 2008 Bonneville Dam adult fall Chinook count of 162,374 is about 2.44 times greater than the 2007 and is 1.32 times greater than the 10 year average. The fall Chinook jack count of 15,423 is about 1.58 times greater than the 2007 count is about 1.55 times greater than the 10 year average. The adult fall Chinook count total at The Dalles Dam is 55,755, about 34.3% of the Bonneville passage total to date. The 2008 Lower Granite Dam adult fall Chinook count of 2,803 is about 3.80 times greater than the 2007 count of 737 and is about 4.24 times greater than the 10 year average count of 661.

As of September 4th, 267,257 steelhead had passed Bonneville Dam. The 2008 count has 1,871 more fish than the of the 2007 count of 265,386 and 1.06 times greater than the 10 year average of 251,648. The 2008 wild steelhead count at Bonneville Dam was 86,612 fish. The daily steelhead counts at The Dalles Dam ranged between 3,015 and 7,368 for the week with a cumulative count of 143,681. About 53.7% of the steelhead counted at Bonneville Dam had passed The Dalles Dam. The majority of the 66,850 steelhead at McNary Dam have moved up into the Snake River with the cumulative count at Ice Harbor now at 41,475 for the season. The 2008 count Lower Granite Dam steelhead count of 28,933 was 1.73 times greater than the 2007 count and 1.60 times greater than the 10 year average. The cumulative count at Priest Rapids Dam was at 9,693 steelhead for the season.

During this time of year, there are times when there are higher steelhead counts at upstream projects compared to downstream projects. The higher counts of steelhead at upstream sites compared to downstream sites in any particular year is because some steelhead spend the winter between sites, for instance between Ice Harbor and Lower Granite, and then start their migration upstream the following year. The summer steelhead run is delineated according to dates of passage past Bonneville Dam and is made up of two components. A-run steelhead pass Bonneville Dam from the first of June through August 25th and B-run steelhead pass Bonneville from August 26th through October. These fish spawn the following spring, so they over winter in the rivers. The higher counts at upstream dams are caused by the fish that over-wintered between dams, re-starting their upstream migration the following year. A-run summer steelhead pass Bonneville Dam through August 25th. The 2008 A-run adult steelhead count at Bonneville was 219,576 which was about 96.5% of the 2007 count of 227,398 and was about 1.05 times greater than the 10 year average count of 209,104. The 2008 B-run adult steelhead began August 26th at Bonneville Dam and was 43,907 as of September 4th. The 2008 B-run steelhead count is 1.27 times greater than the 2007 count and is 1.14 times greater than the 10-year average.

The coho salmon count at Bonneville Dam was 26,680 adults and 1,850 jacks as of September 4th. To date, the 2008 Bonneville coho count is about 1.56 times greater than the 2007 count and is 1.54 times greater than the 10 year average. To date, 5 chum and 60 pink salmon have been observed at Bonneville Dam.

During this time of year (after August 31st), if the total adult salmon counts are 25,000 or over at Bonneville Dam, the Fish Passage Plan (BON2.1.2) states that FPOM should coordinate the use of several units at power house 1 (PH1). In addition, it states that this operation should continue until counts fall below 20,000 fish. By using several units at power house 1 at Bonneville Dam, fish will more evenly spilt their passage of the dam by using the Oregon ladder and the Washington ladder. Without the use of PH1, most of the fish pass the dam on the Washington side of the river. On September 2nd, the total passage of adults at Bonneville Dam was 23,463 close to the 25,000 limit. On September 3rd, the total adult passage at Bonneville Dam was 27,817, just over the 25,000. On September 4th, the total adult passage at Bonneville Dam was 28,348. On September 4th, several units at power house 1 were put into use, causing a more even spilt of adult passage of the dam over both the Oregon and Washington ladders.

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
08/22/2008	106.0	0.1	103.1	0.0	105.5	8.6	106.7	7.8	105.5	0.0	113.7	5.3	112.7	1.2
08/23/2008	98.7	0.1	100.1	0.0	102.4	8.0	103.8	6.8	100.8	0.0	104.3	5.4	98.6	1.0
08/24/2008	71.2	0.1	70.9	0.0	79.6	6.6	80.9	7.3	79.4	0.0	100.9	4.1	104.8	1.0
08/25/2008	90.7	0.1	91.2	0.0	88.7	8.1	90.4	8.4	88.9	0.0	97.3	2.0	101.6	1.0
08/26/2008	81.0	0.1	87.4	0.0	87.4	7.8	85.7	7.5	83.9	0.0	81.9	1.3	72.5	0.7
08/27/2008	80.9	0.1	78.0	0.0	77.3	1.3	78.2	8.0	78.0	0.0	82.4	1.9	78.0	1.7
08/28/2008	101.4	0.1	101.0	0.0	103.6	0.0	97.0	8.5	90.4	0.0	99.5	1.2	99.3	2.5
08/29/2008	106.8	0.1	100.1	0.0	104.4	0.0	109.3	8.5	106.5	0.0	114.5	1.3	111.5	2.7
08/30/2008	66.3	0.1	69.1	0.0	73.1	0.0	73.4	6.7	72.7	0.0	90.8	1.1	93.0	2.6
08/31/2008	74.0	0.1	71.0	0.0	71.3	0.3	67.9	5.8	65.2	0.0	58.8	1.8	55.9	2.6
09/01/2008	68.9	0.1	65.7	0.0	71.5	0.0	75.5	0.0	73.5	0.0	90.4	2.0	90.2	1.5
09/02/2008	65.4	0.1	76.4	0.0	84.4	0.0	85.6	0.0	84.5	0.0	88.2	2.0	85.5	0.7
09/03/2008	79.3	0.1	78.7	0.0	77.0	0.0	73.4	0.0	72.2	0.0	85.5	1.9	81.2	0.6
09/04/2008	61.1	0.1	57.9	0.0	65.8	0.0	69.2	0.0	67.6	0.0	75.3	2.0	74.5	0.8

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
08/22/2008	13.8	3.6	10.7	12.5	38.1	18.6	36.5	10.9	35.7	17.5	39.0	29.0
08/23/2008	12.5	2.3	10.6	10.3	36.9	18.4	34.7	10.4	32.9	17.4	35.7	25.3
08/24/2008	12.5	2.3	10.0	8.9	32.1	18.2	31.2	9.4	29.6	17.4	31.7	21.4
08/25/2008	12.5	2.3	11.2	9.4	31.5	18.4	25.9	7.7	25.1	13.2	26.1	16.0
08/26/2008	12.5	2.2	10.4	12.9	32.8	18.6	30.0	10.1	29.8	16.4	33.7	23.3
08/27/2008	12.5	2.2	10.3	9.7	32.0	18.5	31.0	11.1	28.0	15.3	29.5	19.3
08/28/2008	12.6	2.2	10.6	10.2	31.4	18.4	28.5	11.1	29.4	17.4	31.5	21.2
08/29/2008	12.6	2.2	10.9	11.8	34.2	18.4	34.5	11.1	30.6	17.2	31.4	21.1
08/30/2008	12.6	2.2	10.6	12.7	34.3	18.3	33.8	11.1	31.9	17.5	35.3	24.8
08/31/2008	12.6	2.2	10.9	10.1	31.4	18.3	28.8	11.0	29.0	17.1	30.5	20.1
09/01/2008	11.0	0.5	10.9	9.1	27.9	0.0	26.7	0.0	25.1	0.0	24.7	0.1
09/02/2008	10.4	0.0	10.8	9.3	26.7	0.0	27.5	0.0	29.8	0.0	31.7	0.0
09/03/2008	10.5	0.0	13.4	12.6	32.4	0.0	31.8	0.0	32.0	0.0	32.5	0.0
09/04/2008	10.5	0.0	---	---	32.8	0.0	27.7	0.0	27.8	0.0	28.0	0.0

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
08/22/2008	131.0	72.9	129.6	38.8	125.3	50.2	138.8	83.8	0.0	43.1
08/23/2008	144.8	87.2	136.0	41.0	127.8	50.7	131.6	84.7	0.0	35.1
08/24/2008	149.5	67.1	138.3	41.8	137.0	54.6	157.3	90.8	0.0	54.6
08/25/2008	142.8	57.4	133.1	40.2	131.3	52.4	141.8	90.6	19.8	19.5
08/26/2008	128.7	69.7	123.6	37.3	120.9	48.5	131.5	87.2	0.0	32.3
08/27/2008	117.4	60.8	111.4	33.3	106.4	42.5	122.6	79.3	0.0	31.4
08/28/2008	121.0	54.7	118.3	35.5	117.7	46.9	126.1	82.7	0.0	31.5
08/29/2008	140.6	56.5	135.6	40.7	135.6	54.4	144.0	95.1	0.0	36.9
08/30/2008	148.8	81.4	130.7	39.2	121.7	48.9	135.6	90.1	0.0	33.7
08/31/2008	119.3	62.8	114.2	34.1	116.0	46.3	125.0	81.8	0.0	31.3
09/01/2008	89.4	0.3	93.2	0.9	86.7	0.0	100.3	7.3	0.0	84.4
09/02/2008	117.6	0.0	114.6	0.9	113.7	0.0	109.9	7.2	2.6	93.2
09/03/2008	101.4	0.0	99.6	0.9	103.0	0.0	114.0	5.3	12.7	89.2
09/04/2008	111.1	0.0	103.7	0.8	103.3	0.0	112.8	1.4	42.5	62.0

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											
	08/26/08	Chinook + Steelhead	24	0	0	0.00%	0.00%	0	0	0	0
Bonneville Dam											
	08/26/08	Chinook + Steelhead	38	0	0	0.00%	0.00%	0	0	0	0
	08/30/08	Chinook + Steelhead	36	0	0	0.00%	0.00%	0	0	0	0
McNary Dam											
	08/28/08	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0

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

Total Dissolved Gas Saturation Data at Upper Columbia River Sites

	Hungry H. Dnst				Boundary				Grand Coulee				Grand C. Tlwr				Chief Joseph			
	24 h Avg	12 h Avg	High	# hr	24 h Avg	12 h Avg	High	# hr	24 h Avg	12 h Avg	High	# hr	24 h Avg	12 h Avg	High	# hr	24 h Avg	12 h Avg	High	# hr
8/22	104	104	105	24	106	107	107	22	105	105	105	24	106	107	107	22	106	106	107	7
8/23	104	104	105	24	105	106	108	17	104	105	105	24	107	107	109	17	106	106	107	24
8/24	103	104	104	24	107	108	109	17	104	105	105	24	108	108	111	17	106	107	107	24
8/25	105	106	106	24	105	106	106	22	105	105	105	24	106	107	110	22	106	106	107	24
8/26	105	105	105	24	105	105	106	23	104	104	104	24	105	106	109	23	105	105	106	24
8/27	104	104	105	24	104	105	106	22	103	104	105	24	105	106	109	22	105	105	106	24
8/28	104	104	104	24	105	105	106	23	103	103	104	24	105	106	108	23	104	104	105	24
8/29	104	105	105	24	105	106	106	22	103	104	104	24	106	107	109	22	105	105	105	24
8/30	104	105	105	24	105	106	107	23	104	104	104	24	105	106	107	23	104	105	105	24
8/31	104	104	105	24	104	104	105	22	103	103	104	24	104	105	106	22	104	104	104	24
9/1	102	103	103	24	103	103	103	24	102	102	102	24	103	104	104	24	103	103	104	24
9/2	102	103	103	24	103	104	105	24	101	101	102	24	103	103	104	24	102	102	103	24
9/3	102	103	103	24	103	104	104	22	101	101	102	24	102	103	104	22	103	104	104	24
9/4	103	103	103	24	103	104	105	23	101	101	101	24	103	104	104	23	103	104	104	24

Total Dissolved Gas Saturation Data at Mid Columbia River Sites

	Chief J. Dnst				Wells				Wells Dwnstrm				Rocky Reach				Rocky R. Tlwr			
Date	24 h Avg	12 h Avg	High	# hr	24 h Avg	12 h Avg	High	# hr	24 h Avg	12 h Avg	High	# hr	24 h Avg	12 h Avg	High	# hr	24 h Avg	12 h Avg	High	# hr
8/22	107	107	108	7	106	107	108	24	109	110	111	24	107	108	108	24	108	109	109	24
8/23	106	106	107	24	106	107	108	24	109	110	111	24	107	108	109	24	108	109	109	24
8/24	106	107	108	24	106	107	108	24	110	110	112	24	109	109	109	24	108	109	110	24
8/25	106	106	107	24	106	106	107	23	109	110	110	23	109	109	109	24	109	110	111	24
8/26	105	106	107	24	104	105	106	24	108	108	111	24	107	108	108	24	108	109	110	23
8/27	105	106	107	24	104	105	105	24	106	106	108	24	107	107	107	24	108	108	109	24
8/28	104	105	105	24	104	104	105	24	105	105	105	24	106	106	106	24	108	109	110	24
8/29	104	105	106	24	104	105	106	24	105	106	107	24	105	105	105	24	109	110	110	24
8/30	105	106	107	24	104	104	105	24	104	105	106	24	105	105	105	24	107	107	108	24
8/31	105	106	107	24	103	104	105	24	104	105	105	24	104	104	104	24	105	106	106	24
9/1	103	104	106	24	103	103	104	24	103	104	105	24	103	103	103	24	102	103	105	24
9/2	103	103	104	24	103	103	104	24	103	104	104	24	102	103	103	24	101	101	102	24
9/3	104	104	106	24	103	104	105	24	103	104	105	24	103	103	104	24	101	101	102	24
9/4	104	104	105	24	103	104	105	23	104	104	105	23	103	104	105	24	101	102	102	24

Total Dissolved Gas Saturation at Mid Columbia River Sites

	Rock Island				Rock I. Tlwr				Wanapum				Wanapum Tlwr				Priest Rapids			
Date	24 h Avg	12 h Avg	High	# hr	24 h Avg	12 h Avg	High	# hr	24 h Avg	12 h Avg	High	# hr	24 h Avg	12 h Avg	High	# hr	24 h Avg	12 h Avg	High	# hr
8/22	108	109	109	24	127	129	130	24	104	105	105	24	106	107	110	24	106	106	107	24
8/23	108	109	109	24	126	129	131	24	105	107	108	24	107	108	109	23	107	108	109	24
8/24	108	109	109	24	122	124	128	24	105	106	107	24	109	109	109	15	108	108	109	24
8/25	108	109	109	24	122	124	129	24	105	106	107	24	107	108	108	24	107	108	108	24
8/26	107	108	109	24	114	119	122	24	102	103	105	24	105	105	106	24	104	105	105	24
8/27	108	108	109	24	108	108	109	24	103	103	104	24	105	105	105	24	104	105	105	24
8/28	107	107	108	24	107	107	108	24	101	102	102	24	104	104	105	24	103	104	104	24
8/29	107	108	108	24	107	107	108	24	102	104	106	24	106	106	107	24	104	105	106	24
8/30	106	106	107	24	106	106	107	24	104	104	105	24	105	106	106	24	104	104	105	3
8/31	104	105	105	24	104	104	105	24	102	103	103	24	103	103	103	3	102	102	103	24
9/1	103	104	105	24	103	104	104	24	101	102	102	24	103	103	103	24	101	101	102	24
9/2	102	103	103	24	102	103	103	24	100	101	102	24	103	103	104	24	101	102	102	24
9/3	103	103	104	24	103	103	103	24	100	101	102	24	103	103	104	24	101	102	103	24
9/4	103	104	104	24	103	103	104	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
8/22	106	106	106	24	102	104	104	24	107	108	108	24	105	106	107	24	101	103	104	24
8/23	107	108	108	24	104	105	105	24	107	107	107	24	---	---	---	0	102	103	105	24
8/24	108	108	109	24	105	106	106	24	107	107	108	24	106	107	108	24	102	103	104	24
8/25	107	108	108	24	104	104	105	24	107	107	108	24	106	107	108	24	101	102	103	24
8/26	105	106	106	24	103	104	104	24	106	107	107	24	105	106	107	24	101	102	104	24
8/27	105	105	106	24	102	103	104	24	106	107	107	24	105	105	106	24	101	102	103	24
8/28	104	105	105	24	102	103	104	24	106	106	106	24	105	106	107	24	101	103	104	24
8/29	105	106	106	24	104	105	106	24	107	107	107	24	106	107	108	24	102	104	105	24
8/30	105	105	106	24	104	104	104	24	107	107	107	24	106	106	107	24	101	102	103	24
8/31	103	104	104	24	102	103	103	24	107	107	107	24	105	106	107	24	101	101	103	24
9/1	102	103	103	24	101	102	102	24	102	104	106	24	103	103	104	24	100	101	102	24
9/2	102	103	103	24	102	103	103	24	101	101	101	24	101	102	103	24	101	102	104	24
9/3	103	103	104	24	102	103	104	24	101	101	102	24	102	103	103	24	102	103	104	24
9/4	---	---	---	0	103	103	104	24	101	101	102	24	101	102	103	24	101	102	103	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
8/22	103	105	106	24	100	100	101	24	111	112	112	24	105	106	106	24	112	113	114	24
8/23	104	105	107	24	100	100	100	24	111	111	111	24	105	105	105	24	109	110	111	24
8/24	104	105	107	24	100	100	101	24	111	112	112	24	105	105	106	24	109	110	110	24
8/25	103	104	105	24	100	100	101	24	111	112	112	24	105	106	106	24	110	110	111	24
8/26	103	105	107	24	99	100	101	24	111	112	112	24	104	105	105	24	111	112	113	24
8/27	102	103	105	24	101	101	102	24	112	112	112	24	105	105	106	24	111	112	113	24
8/28	103	105	107	24	101	102	102	24	112	112	112	24	105	105	106	24	111	111	111	24
8/29	104	106	107	24	102	102	102	24	112	112	112	24	106	106	106	24	108	109	111	24
8/30	103	105	106	24	101	102	102	24	111	112	112	24	106	107	107	24	107	108	108	24
8/31	103	104	106	24	101	101	101	24	111	111	112	24	106	107	107	24	110	110	111	24
9/1	102	104	105	24	100	101	101	24	101	102	109	24	105	105	106	24	105	106	110	24
9/2	102	103	105	24	101	101	101	24	101	102	104	24	104	104	105	24	104	104	104	24
9/3	102	104	105	24	100	100	101	24	101	101	101	24	104	104	104	24	104	104	104	24
9/4	102	103	105	24	99	100	100	24	100	100	100	24	104	105	105	24	104	104	105	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
8/22	105	105	106	24	115	115	115	24	106	106	106	24	113	113	114	24	---	---	---	0
8/23	105	105	105	24	115	116	116	24	106	106	107	24	113	114	114	24	---	---	---	0
8/24	105	105	105	24	115	115	116	24	107	107	107	24	113	113	113	24	---	---	---	0
8/25	105	106	106	24	114	115	116	24	107	107	107	24	111	112	113	24	---	---	---	0
8/26	105	106	106	24	115	115	116	24	107	108	108	24	112	113	114	24	---	---	---	0
8/27	105	106	106	24	114	115	116	24	108	108	108	24	113	113	116	24	---	---	---	0
8/28	104	105	105	24	115	115	116	24	107	107	108	24	113	114	114	24	---	---	---	0
8/29	105	106	106	24	116	116	116	24	108	108	108	24	113	113	114	14	---	---	---	0
8/30	106	106	107	24	115	116	116	24	108	108	108	24	113	114	115	24	---	---	---	0
8/31	105	106	107	24	115	116	116	24	107	107	108	24	112	113	113	24	---	---	---	0
9/1	105	105	105	24	105	106	114	24	107	107	107	24	108	108	112	24	---	---	---	0
9/2	104	104	104	24	104	104	105	24	107	108	108	24	107	108	109	24	---	---	---	0
9/3	103	103	103	24	103	103	103	24	108	108	108	24	108	108	109	24	---	---	---	0
9/4	104	104	105	24	104	104	105	24	108	108	108	24	108	108	109	24	---	---	---	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 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
8/22	102	102	103	24	114	114	115	24	103	104	104	24	123	131	135	24	104	105	106	24
8/23	102	103	103	24	114	114	115	24	104	104	104	24	131	133	134	24	108	108	109	24
8/24	102	103	103	24	115	116	117	24	103	104	104	24	132	132	133	24	108	109	109	24
8/25	104	104	105	24	116	116	117	24	102	102	103	24	122	130	131	24	106	107	107	24
8/26	103	103	104	24	114	115	115	24	101	101	102	24	114	114	115	24	104	104	105	24
8/27	103	103	104	24	115	115	116	24	101	101	101	24	113	114	114	24	105	105	106	24
8/28	102	102	102	24	114	115	116	24	101	101	102	24	113	114	115	24	104	105	105	24
8/29	103	104	105	24	116	116	116	24	102	102	102	24	115	115	115	24	106	107	107	24
8/30	103	103	104	24	114	115	116	24	102	102	102	24	114	114	114	24	105	106	106	24
8/31	103	103	104	24	116	116	116	24	101	102	102	24	113	114	114	24	103	103	104	24
9/1	102	103	103	24	104	105	114	24	100	100	101	24	101	101	105	24	102	103	103	24
9/2	102	102	103	24	102	102	102	24	100	100	100	24	100	101	101	24	102	102	103	24
9/3	102	102	102	24	102	102	102	24	100	100	100	24	100	101	101	24	100	101	101	24
9/4	102	103	103	24	102	102	102	24	100	101	101	24	100	101	101	24	100	100	101	24

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
8/22	112	113	113	24	104	105	105	24	---	---	---	0	110	111	111	24	115	116	118	24
8/23	114	115	115	24	106	107	108	24	---	---	---	0	112	113	114	24	115	116	118	24
8/24	114	115	115	24	109	110	111	24	---	---	---	0	115	116	117	24	115	117	118	24
8/25	113	113	113	24	108	109	109	24	---	---	---	0	112	113	115	24	115	116	118	24
8/26	112	112	113	24	106	106	106	24	---	---	---	0	113	115	116	24	115	116	117	24
8/27	112	112	112	24	105	105	106	24	---	---	---	0	112	113	115	24	114	115	117	24
8/28	112	112	112	24	104	105	105	24	---	---	---	0	113	114	115	24	114	115	119	24
8/29	113	113	114	24	106	106	107	24	---	---	---	0	115	116	117	24	116	118	119	24
8/30	112	112	113	24	105	105	106	24	---	---	---	0	111	112	113	24	116	117	119	24
8/31	111	111	111	24	103	104	105	24	---	---	---	0	110	111	111	24	115	116	118	24
9/1	105	107	111	24	101	101	102	24	---	---	---	0	110	111	112	24	116	117	119	24
9/2	103	104	104	24	102	102	103	24	---	---	---	0	105	107	110	24	117	118	120	24
9/3	102	102	102	24	103	103	103	24	---	---	---	0	104	104	105	24	116	119	121	24
9/4	101	102	102	24	102	103	103	24	---	---	---	0	104	105	105	24	111	113	116	24

Two-Week Summary of Passage Indices

Source: Fish Passage Center Updated: 9/5/2008 8:49

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)
08/22/2008	*	---	---	---	---	0	0	2	1	0	0	0
08/23/2008	*	---	---	---	---	0	0	0	0	0	---	---
08/24/2008	*	---	---	---	---	0	0	0	0	0	---	0
08/25/2008	*	---	---	---	---	0	0	0	0	0	---	0
08/26/2008	*	---	---	---	---	0	0	0	0	0	0	---
08/27/2008	*	---	---	---	---	0	0	0	0	0	---	0
08/28/2008	*	---	---	---	---	0	0	0	0	0	---	---
08/29/2008	*	---	---	---	---	0	0	0	0	0	0	0
08/30/2008	*	---	---	---	---	0	0	0	0	0	---	0
08/31/2008	*	---	---	---	---	0	0	0	0	0	---	0
09/01/2008	*	---	---	---	---	2	0	0	0	0	0	0
09/02/2008		---	---	---	---	0	0	0	---	0	0	0
09/03/2008		---	---	---	---	0	0	0	---	0	0	0
09/04/2008		---	---	---	---	0	0	0	---	0	0	0
09/05/2008		---	---	---	---	---	---	---	---	---	---	---
Total:		**0**	**0**	**0**	**0**	**2**	**0**	**2**	**1**	**0**	**0**	**0**
# Days:		**0**	**0**	**0**	**0**	**14**	**14**	**14**	**11**	**14**	**7**	**11**
Average:		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
YTD		**56,037**	**78,597**	**19,672**	**13,632**	**3,584,860**	**2,743,412**	**1,971,519**	**22,434**	**1,360,627**	**1,694,099**	**1,291,078**

		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)
08/22/2008	*	---	---	---	---	1,097	1,481	152	20	13,671	607	1,677
08/23/2008	*	---	---	---	---	600	647	62	23	9,244	---	---
08/24/2008	*	---	---	---	---	786	701	122	19	7,601	---	3,202
08/25/2008	*	---	---	---	---	646	483	399	19	7,298	---	2,333
08/26/2008	*	---	---	---	---	959	341	213	13	9,829	255	---
08/27/2008	*	---	---	---	---	878	345	53	15	8,508	---	999
08/28/2008	*	---	---	---	---	592	130	48	11	5,440	---	---
08/29/2008	*	---	---	---	---	444	117	111	8	4,063	722	773
08/30/2008	*	---	---	---	---	423	66	39	17	2,619	---	1,075
08/31/2008	*	---	---	---	---	329	83	49	12	3,668	---	730
09/01/2008	*	---	---	---	---	188	35	6	2	1,317	3,980	873
09/02/2008		---	---	---	---	225	17	65	---	850	1,933	1,067
09/03/2008		---	---	---	---	342	35	31	---	2,270	2,317	1,628
09/04/2008		---	---	---	---	374	41	13	---	1,570	1,026	1,131
09/05/2008		---	---	---	---	---	---	---	---	---	---	---
Total:		**0**	**0**	**0**	**0**	**7,883**	**4,522**	**1,363**	**159**	**77,948**	**10,840**	**15,488**
# Days:		**0**	**0**	**0**	**0**	**14**	**14**	**14**	**11**	**14**	**7**	**11**
Average:		**0**	**0**	**0**	**0**	**563**	**323**	**97**	**14**	**5,568**	**1,549**	**1,408**
YTD		**0**	**0**	**2**	**119**	**738,667**	**1,130,021**	**331,472**	**16,069**	**2,401,718**	**1,773,686**	**3,755,736**

Two-Week Summary of Passage Indices

COMBINED COHO

Date		WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)
08/22/2008	*	---	---	---	---	0	1	0	0	0	0	0
08/23/2008	*	---	---	---	---	4	0	0	0	0	---	---
08/24/2008	*	---	---	---	---	2	0	0	0	0	---	0
08/25/2008	*	---	---	---	---	0	0	0	0	0	---	0
08/26/2008	*	---	---	---	---	0	1	0	1	0	0	---
08/27/2008	*	---	---	---	---	5	0	0	0	0	---	0
08/28/2008	*	---	---	---	---	5	0	0	0	0	---	---
08/29/2008	*	---	---	---	---	5	0	0	0	0	0	0
08/30/2008	*	---	---	---	---	2	1	0	0	0	---	0
08/31/2008	*	---	---	---	---	0	2	0	0	0	---	15
09/01/2008	*	---	---	---	---	0	3	0	0	0	0	0
09/02/2008		---	---	---	---	2	0	0	---	0	0	0
09/03/2008		---	---	---	---	0	1	0	---	0	0	0
09/04/2008		---	---	---	---	2	0	0	---	0	0	0
09/05/2008		---	---	---	---	---	---	---	---	---	---	---
Total:		**0**	**0**	**0**	**0**	**27**	**9**	**0**	**1**	**0**	**0**	**15**
# Days:		**0**	**0**	**0**	**0**	**14**	**14**	**14**	**11**	**14**	**7**	**11**
Average:		**0**	**0**	**0**	**0**	**2**	**1**	**0**	**0**	**0**	**0**	**1**
YTD		**0**	**0**	**0**	**326**	**109,005**	**166,103**	**142,692**	**52,278**	**169,484**	**362,537**	**358,714**

COMBINED STEELHEAD

Date		WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)
08/22/2008	*	---	---	---	---	0	0	0	0	0	0	0
08/23/2008	*	---	---	---	---	0	1	0	0	0	---	---
08/24/2008	*	---	---	---	---	0	0	0	0	0	---	0
08/25/2008	*	---	---	---	---	5	0	0	0	0	---	0
08/26/2008	*	---	---	---	---	2	1	0	0	0	0	---
08/27/2008	*	---	---	---	---	2	0	0	0	0	---	0
08/28/2008	*	---	---	---	---	2	0	0	0	0	---	---
08/29/2008	*	---	---	---	---	0	2	0	0	0	0	0
08/30/2008	*	---	---	---	---	0	0	0	0	0	---	0
08/31/2008	*	---	---	---	---	0	0	0	1	0	---	0
09/01/2008	*	---	---	---	---	0	0	0	1	0	0	0
09/02/2008		---	---	---	---	0	0	1	---	0	0	0
09/03/2008		---	---	---	---	0	1	0	---	0	0	0
09/04/2008		---	---	---	---	1	1	0	---	0	0	0
09/05/2008		---	---	---	---	---	---	---	---	---	---	---
Total:		**0**	**0**	**0**	**0**	**12**	**6**	**1**	**2**	**0**	**0**	**0**
# Days:		**0**	**0**	**0**	**0**	**14**	**14**	**14**	**11**	**14**	**7**	**11**
Average:		**0**	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**
YTD		**4,565**	**22,292**	**5,891**	**10,708**	**3,444,091**	**3,694,315**	**1,546,173**	**22,780**	**507,334**	**1,132,951**	**450,264**

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)
08/22/2008	*	---	---	---	---	22	1	0	0	9	0	0
08/23/2008	*	---	---	---	---	6	0	0	0	0	---	---
08/24/2008	*	---	---	---	---	35	0	0	0	26	---	0
08/25/2008	*	---	---	---	---	24	3	0	0	0	---	0
08/26/2008	*	---	---	---	---	20	4	0	0	0	0	---
08/27/2008	*	---	---	---	---	2	2	0	1	0	---	0
08/28/2008	*	---	---	---	---	10	6	0	1	0	---	---
08/29/2008	*	---	---	---	---	27	5	0	0	0	0	0
08/30/2008	*	---	---	---	---	6	7	0	4	12	---	0
08/31/2008	*	---	---	---	---	22	8	0	0	13	---	0
09/01/2008	*	---	---	---	---	9	3	0	0	0	0	0
09/02/2008		---	---	---	---	6	1	0	---	0	0	0
09/03/2008		---	---	---	---	0	8	0	---	0	0	0
09/04/2008		---	---	---	---	4	6	0	---	5	0	0
09/05/2008		---	---	---	---	---	---	---	---	---	---	---
Total:		**0**	**0**	**0**	**0**	**193**	**54**	**0**	**6**	**65**	**0**	**0**
# Days:		**0**	**0**	**0**	**0**	**14**	**14**	**14**	**11**	**14**	**7**	**11**
Average:		**0**	**0**	**0**	**0**	**14**	**4**	**0**	**1**	**5**	**0**	**0**
YTD		**37**	**0**	**0**	**111**	**27,720**	**36,643**	**45,480**	**38,965**	**223,000**	**331,851**	**145,376**

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

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

Definitions for Smolt Index Counts

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

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

Two Week Transportation Summary

Source: Fish Passage Center Updated: 9/5/08 10:09 AM

08/22/08 TO 09/05/08

		Species					
Site	Data	**CH0**	**CH1**	**CO**	**SO**	**ST**	**Grand Total**
LGR	Sum of NumberCollected	4,066	1	14	93	6	4,180
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	327	0	0	0	0	327
	Sum of Numbertrucked	3,713	1	14	70	5	3,803
	Sum of SampleMorts	26	0	0	23	1	50
	Sum of FacilityMorts	0	0	0	0	0	0
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	26	0	0	23	1	50
LGS	Sum of NumberCollected	3,149		7	41	5	3,202
	Sum of NumberBarged	0		0	0	0	0
	Sum of NumberBypassed	1		0	0	0	1
	Sum of Numbertrucked	3,111		7	35	5	3,158
	Sum of SampleMorts	30		0	3	0	33
	Sum of FacilityMorts	7		0	3	0	10
	Sum of ResearchMorts	0		0	0	0	0
	Sum of TotalProjectMorts	37		0	6	0	43
LMN	Sum of NumberCollected	645	1			1	647
	Sum of NumberBarged	0	0			0	0
	Sum of NumberBypassed	12	0			0	12
	Sum of Numbertrucked	621	1			1	623
	Sum of SampleMorts	12	0			0	12
	Sum of FacilityMorts	0	0			0	0
	Sum of ResearchMorts	0	0			0	0
	Sum of TotalProjectMorts	12	0			0	12
MCN	Sum of NumberCollected	40,972			32		41,004
	Sum of NumberBarged	0			0		0
	Sum of NumberBypassed	0			0		0
	Sum of Numbertrucked	40,541			31		40,572
	Sum of SampleMorts	60			0		60
	Sum of FacilityMorts	371			0		371
	Sum of ResearchMorts	0			0		0
	Sum of TotalProjectMorts	431			0		431
Total Sum of NumberCollected		48,832	2	21	166	12	49,033
Total Sum of NumberBarged		0	0	0	0	0	0
Total Sum of NumberBypassed		340	0	0	0	0	340
Total Sum of Numbertrucked		47,986	2	21	136	11	48,156
Total Sum of SampleMorts		128	0	0	26	1	155
Total Sum of FacilityMorts		378	0	0	3	0	381
Total Sum of ResearchMorts		0	0	0	0	0	0
Total Sum of TotalProjectMorts		506	0	0	29	1	536

YTD Transportation Summary

Source: Fish Passage Center Updated: 9/5/08 10:09 AM

TO: 09/05/08

		Species					
Site	Data	**CH0**	**CH1**	**CO**	**SO**	**ST**	**Grand Total**
LGR	Sum of NumberCollected	418,533	2,398,634	68,816	13,446	2,165,416	5,064,845
	Sum of NumberBarged	401,738	1,966,900	66,905	12,865	1,786,609	4,235,017
	Sum of NumberBypassed	2,907	425,949	1,848	424	377,930	809,058
	Sum of NumberTrucked	6,654	1	17	79	8	6,759
	Sum of SampleMorts	424	154	2	41	51	672
	Sum of FacilityMorts	1,680	2,841	44	37	818	5,420
	Sum of ResearchMorts	5,130	2,789	0	0	0	7,919
	Sum of TotalProjectMorts	7,234	5,784	46	78	869	14,011
LGS	Sum of NumberCollected	744,734	1,706,946	95,872	21,860	2,309,430	4,878,842
	Sum of NumberBarged	728,067	1,314,157	93,092	21,716	1,590,212	3,747,244
	Sum of NumberBypassed	5,428	389,296	2,765	73	718,741	1,116,303
	Sum of NumberTrucked	9,279	2	10	37	5	9,333
	Sum of SampleMorts	198	40	1	7	14	260
	Sum of FacilityMorts	1,762	3,451	4	27	458	5,702
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	1,960	3,491	5	34	472	5,962
LMN	Sum of NumberCollected	241,226	1,216,521	83,198	28,104	957,127	2,526,176
	Sum of NumberBarged	237,235	276,438	9,246	10,128	230,248	763,295
	Sum of NumberBypassed	2,243	940,234	73,949	17,975	726,648	1,761,049
	Sum of NumberTrucked	1,305	3	0	0	2	1,310
	Sum of SampleMorts	69	39	0	0	22	130
	Sum of FacilityMorts	374	798	3	1	207	1,383
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	443	837	3	1	229	1,513
MCN	Sum of NumberCollected	1,175,871	752,385	78,675	102,305	276,935	2,386,171
	Sum of NumberBarged	349,594	164	50	120	55	349,983
	Sum of NumberBypassed	749,935	751,376	78,558	102,005	276,615	1,958,489
	Sum of NumberTrucked	67,430	11	5	31	0	67,477
	Sum of SampleMorts	542	112	3	23	25	705
	Sum of FacilityMorts	8,283	658	56	114	218	9,329
	Sum of ResearchMorts	87	58	3	5	20	173
	Sum of TotalProjectMorts	8,912	828	62	142	263	10,207
Total Sum of NumberCollected		2,580,364	6,074,486	326,561	165,715	5,708,908	14,856,034
Total Sum of NumberBarged		1,716,634	3,557,659	169,293	44,829	3,607,124	9,095,539
Total Sum of NumberBypassed		760,513	2,506,855	157,120	120,477	2,099,934	5,644,899
Total Sum of NumberTrucked		84,668	17	32	147	15	84,879
Total Sum of SampleMorts		1,233	345	6	71	112	1,767
Total Sum of FacilityMorts		12,099	7,748	107	179	1,701	21,834
Total Sum of ResearchMorts		5,217	2,847	3	5	20	8,092
Total Sum of TotalProjectMorts		18,549	10,940	116	255	1,833	31,693

Cumulative Adult Passage at Mainstem Dams Through: 09/04

		Spring Chinook						Summer Chinook						Fall Chinook					
		2008		2007		10-Yr Avg.		2008		2007		10-Yr Avg.		2008		2007		10-Yr Avg.	
DAM	EndDate	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack
BON	**09/04**	**125545**	**17552**	**67482**	**16860**	**151523**	**9831**	**78271**	**11621**	**47412**	**13539**	**71262**	**9127**	**162374**	**15423**	**66603**	**9734**	**123168**	**9906**
TDA	**09/03**	**95440**	**15801**	**53524**	**15567**	**106828**	**7522**	**65073**	**12206**	**40123**	**11318**	**61862**	**6875**	**55755**	**10712**	**25580**	**4833**	**45814**	**4576**
JDA	**09/04**	**81771**	**14925**	**44005**	**13864**	**89148**	**6122**	**63649**	**13680**	**35773**	**11582**	**57243**	**6930**	**37691**	**9680**	**15367**	**3816**	**30047**	**3657**
MCN	**09/04**	**68085**	**12133**	**39497**	**12393**	**82136**	**6227**	**54735**	**11239**	**32393**	**9386**	**55163**	**6274**	**17677**	**4131**	**11262**	**1916**	**18751**	**2180**
IHR	**09/03**	**53142**	**7757**	**28380**	**7371**	**54980**	**3897**	**23693**	**4964**	**7714**	**2523**	**11420**	**2100**	**6058**	**696**	**1776**	**231**	**1686**	**282**
LMN	**09/04**	**54512**	**6885**	**28397**	**7102**	**52688**	**3599**	**27345**	**2890**	**11452**	**1419**	**11417**	**1651**	**5583**	**1302**	**1637**	**233**	**1388**	**246**
LGS	**09/04**	**50401**	**7805**	**23960**	**7227**	**50024**	**3685**	**21748**	**4811**	**7898**	**2861**	**9497**	**2073**	**3798**	**542**	**921**	**150**	**908**	**126**
LGR	**09/04**	**50146**	**10946**	**22905**	**9085**	**50643**	**4197**	**22612**	**5072**	**7312**	**3285**	**9346**	**2279**	**2803**	**560**	**737**	**143**	**661**	**125**
PRD	**09/02**	**12173**	**620**	**6708**	**489**	**17360**	**563**	**39305**	**3355**	**30644**	**1088**	**50486**	**2111**	**2505**	**5971**	**2681**	**495**	**6089**	**599**
RIS	**09/03**	**12490**	**1119**	**5572**	**2066**	**13979**	**962**	**38171**	**3096**	**28222**	**6200**	**47383**	**5323**	**1415**	**872**	**1537**	**567**	**2580**	**637**
RRH	**09/03**	**4065**	**371**	**2424**	**920**	**5404**	**397**	**29675**	**2127**	**21657**	**5110**	**35386**	**3711**	**1584**	**896**	**1284**	**392**	**2018**	**584**
WEL	**09/03**	**2708**	**426**	**2041**	**752**	**3980**	**281**	**21060**	**1373**	**13244**	**3573**	**25854**	**1953**	**617**	**238**	**337**	**183**	**664**	**204**
WFA	**08/10**	**14205**	**470**	**22795**	**268**	**-**	**-**	**0**	**0**	**0**	**0**	**-**	**-**	**0**	**0**	**0**	**0**	**-**	**-**

	Coho						Sockeye			Steelhead			
	2008		2007		10-Yr Avg.				10-Yr			10-Yr	Wild
DAM	Adult	Jack	Adult	Jack	Adult	Jack	2008	2007	Avg.	2008	2007	Avg.	2008
BON	**26680**	**1850**	**17053**	**817**	**17256**	**1027**	**213592**	**24375**	**58551**	**267257**	**265386**	**251648**	**86612**
TDA	**3885**	**511**	**1067**	**105**	**1448**	**172**	**177984**	**19124**	**49462**	**143681**	**101828**	**105210**	**50523**
JDA	**4488**	**772**	**835**	**317**	**845**	**131**	**193409**	**24231**	**54056**	**120697**	**75608**	**77305**	**40120**
MCN	**250**	**29**	**171**	**18**	**193**	**29**	**146922**	**18167**	**45006**	**66850**	**58312**	**53595**	**21514**
IHR	**2**	**0**	**0**	**0**	**3**	**0**	**539**	**55**	**34**	**41475**	**22879**	**27418**	**11651**
LMN	**3**	**3**	**17**	**0**	**0**	**0**	**722**	**43**	**33**	**44290**	**20745**	**23986**	**14289**
LGS	**0**	**1**	**2**	**0**	**0**	**0**	**593**	**37**	**37**	**28630**	**10470**	**16224**	**8956**
LGR	**0**	**0**	**0**	**0**	**0**	**0**	**890**	**53**	**42**	**28933**	**16673**	**18026**	**9660**
PRD	**61**	**14**	**45**	**5**	**25**	**1**	**192217**	**24643**	**56264**	**9693**	**7059**	**7101**	**0**
RIS	**1**	**10**	**4**	**3**	**1**	**0**	**193726**	**25118**	**52563**	**9440**	**5870**	**5977**	**3991**
RRH	**1**	**7**	**0**	**2**	**1**	**0**	**161322**	**20665**	**36843**	**7364**	**3863**	**4294**	**2627**
WEL	**0**	**0**	**0**	**0**	**0**	**0**	**165311**	**22229**	**36784**	**4083**	**2318**	**2746**	**1866**
WFA	**10**	**1**	**2**	**0**	**-**	**-**	**0**	**0**	**-**	**18368**	**18514**	**-**	**-**

BON and LGR have switched to video counts so the data is delayed.
*PRD is not posting wild steelhead numbers.
These numbers were collected from USACE, Grant PUD, Douglas PUD, Chelan PUD, ODFW and DART.
Wild steelhead numbers are included in the total. Wild Steelhead are defined as unclipped fish.
Historic counts (pre-1996) were obtained from CRITFC and compiled by the FPC.
Historic counts 1997 to present were obtained from the Corps of Engineers.

Page last updated on: 09/05/08

BON counts from January 1, 2008 to March 14, 2008 (our traditional counts begin March 15):

Year	Chinook Adult	Chinook Jack	Steelhead	Wild Steelhead
2008	42	0	578	278
2007	22	0	1,677	517