



# Fish Passage Center

## Weekly Report #09 - 13

June 5, 2009

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### Summary of Events:

**Water Supply:** Precipitation throughout the Columbia Basin has varied between 78% and 188% of average at individual sub-basins over May. Precipitation above The Dalles has been 110% of average over May. Over the entire water year, precipitation has generally been near average.

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

Location	Water Year 2009 May 1-25		Water Year 2009 October 1, 2008 to May 25, 2009	
	Observed (inches)	% Average	Observed (inches)	% Average
Columbia Above Coulee	1.80	100	16.45	93
Snake River Above Ice Harbor	1.63	107	13.90	105
Columbia Above The Dalles	1.75	110	17.29	99
Kootenai	1.93	108	16.05	88
Clark Fork	1.29	78	12.62	106
Flathead	2.14	109	15.03	96
Pend Oreille/Spokane	2.22	106	23.1	94
Central Washington	0.69	112	6.42	90
Snake River Plain	1.25	105	8.06	97
Salmon/Boise/Payette	1.91	132	14.48	92
Clearwater	2.61	107	26.39	111
SW Washington Cascades/Cowlitz	5.76	188	57.69	93
Willamette Valley	4.96	174	46.36	88

Average snowpack in the Columbia River for basins above the Snake River confluence is 71% of average, for Snake River Basins the average snowpack is 37% of average, and for lower Columbia Basins between McNary and Bonneville Dam average snowpack is 149% of average.

Table 2 displays the May Final and June Early runoff volume forecasts for multiple reservoirs. The current forecast at The Dalles between January and July is 91100 Kaf (85% of average).

**Table 2. May Final and June Early Runoff Volume Forecasts for various reservoirs within the Columbia and Snake River Basins.**

Location	May Final		June Early	
	% Average (1971- 2000)	Probable Runoff Volume (Kaf)	% Average (1971- 2000)	Probable Runoff Volume (Kaf)
The Dalles (Jan-July)	85	91100	85	91100
Grand Coulee (Jan-July)	87	55000	86	54100
Libby Res. Inflow, MT (Apr-Aug)	84	5270	81	5050
Hungry Horse Res. Inflow, MT (Jan-July)	92	2050	92	2050
Lower Granite Res. Inflow (Apr-July)	97	20900	97	20800
Brownlee Res. Inflow (Apr-July)	79	5000	76	4820
Dworshak Res. Inflow (Apr-July)	99 98*	2610 2631	93	2470

\* Denotes COE Forecast

The Biological Opinion flow period began on April 3rd in the lower Snake River (Lower Granite) and began on April 10th in the mid (Priest Rapids) and lower (McNary) Columbia River. According to the April Final

Water Supply Forecast, the flow objectives this spring are 100 Kcfs at Lower Granite, 228 Kcfs at McNary, and 135 Kcfs at Priest Rapids. At Lower Granite flows from April 3-June 4 have averaged 107.7 Kcfs and 158.6 Kcfs over the last week, flows at Priest Rapids from April 10-June 4 averaged 134.4 Kcfs and 169.0 Kcfs over the last week, and flows at McNary have averaged 264.7 Kcfs between April 10-June 4 and 343.0 Kcfs over the last week.

Grand Coulee Reservoir is at 1278.7 feet (6-4-09) and has refilled 9.3 feet over the last week. Outflows at Grand Coulee have ranged between 117.6 and 160.5 Kcfs over the last week.

The Libby Reservoir is currently at elevation 2421.6 feet (6-4-09) and has refilled 8.1 feet last week. Outflows at Libby have been 13.4 Kcfs over the last week.

Hungry Horse is currently at an elevation of 3541.8 ft (6-4-09) and has refilled 8.2 feet last week. Outflows at Hungry Horse have been 4.2-5.2 Kcfs last week.

Dworshak is currently at an elevation of 1587.0 feet (6-4-09) and has refilled 11.4 feet last week. Outflows at Dworshak were increased from 4.4 Kcfs to 7.1 over the last week.

The Brownlee Reservoir was at an elevation of 2076.5 feet on June 4<sup>th</sup>, 2009, refilling 2.4 feet last week. Outflows at Brownlee Dam have been 18.4 to 24.5 Kcfs over the last week.

**Spill:** Over the last three days some spill has occurred at Dworshak Dam due to a unit outage. Spill at Dworshak has ranged between 2.2-2.8 kcf over the last three days with TDG ranging between approximately 106.9 and 109.8 % TDG below Dworshak Dam.

The 2009 planned spring spill program at the lower Snake River Projects began on April 3 at 0001 hours and will continue through June 20, 2009. The following table shows the planned operations for 2009.

Project	Day/Night Spill
Lower Granite	20Kcfs/20Kcfs
Little Goose	30%/30%
Lower Monumental	Gas Cap/Gas Cap
Ice Harbor	30%/30% vs 45Kcfs/Gas Cap Study

Flow in the Snake River remained high over the past week. Spill at Lower Granite Dam has been

above the court order and in excess of hydraulic and generation capacity. Spill at Little Goose Dam did met the 30% average spill on May 31 and June 1 but has since been below 30% due to lower spill caps because of TDG levels in the forebay of Lower Monumental Dam. Spill to the gas cap at Lower Monumental Dam has been exceeded over the past week during a comparison of bulk versus uniform spill pattern test. The uncontrolled spill has occurred due to the high river flows. Spill is higher during uniform spill pattern testing. The implementation of study-like conditions at Ice Harbor Dam began on April 30<sup>th</sup>, and spill management has attempted to alternate between 30% spill for 24 hours and 45 Kcfs Daytime spill and gas cap nighttime spill, in two day blocks. Uncontrolled spill has also occurred at this project due to the high river flows and daily average spill has ranged between 46-51% of daily average flow.

The 2009 spill program began at the lower Columbia River projects at 0001 hours on April 10<sup>th</sup> and will continue through June 30<sup>th</sup>. The following table shows the planned operations for 2009.

Project	Day/Night Spill
McNary	40%/40%
John Day	30%/30% on pre-test days; 30%/30% vs. 40%/40% on test days
The Dalles	40%/40%
Bonneville	100 Kcfs/100 Kcfs

McNary Dam spill met or exceeded the Court Order over the past week. At John Day Dam the testing of 30% versus 40% spill occurred, however, spill has been limited at this project since May 31<sup>st</sup>. The Dalles Dam spill has been less than the 40% over most of the past week after spill caps were reduced due to the TDG at the Bonneville Dam forebay. At Bonneville Dam spill levels have met or exceeded the 100 Kcfs over the past week.

The high river flows have resulted in total dissolved gas measurements at the Snake River federal hydroprojects that exceeded the waiver limits over this past week at the forebay monitors at Little Goose, Lower Monumental and Ice Harbor dams.

In the Lower Columbia TDG exceeded the waiver limits at the Bonneville Dam forebay and tailrace all of last week. The Camas/Washougal monitor also read

higher than 115% over all of last week, however, this monitor is not a point of compliance.

Gas bubble trauma (GBT) monitoring occurred at Lower Granite, Little Goose and Lower Monumental dams in the Snake River, Rock Island in the Mid Columbia River and at McNary and Bonneville dams in the lower Columbia. A few fish with minor signs of GBT were detected in the samples this past week at Rock Island and Bonneville dams.

**Smolt Monitoring:** Collection of Spring migrants declined at all SMP sites in the Snake River and Lower Columbia this past week, while subyearling Chinook indices increased. The exception to this was at Rock Island where sockeye and coho numbers increased this past week. Sampling at the Imnaha Trap captured a decreasing number of yearling Chinook and steelhead. That reduction is consistent with other recent years as the spring migration winds down in the tributaries as well as in the hydro-system.

At Lower Granite Dam subyearling Chinook predominated in passage numbers followed by steelhead. PIT-tag detections at Lower Granite confirm that the acclimation released subyearling Chinook were arriving at the site over the past week. And releases at Hells Canyon and North Lapwai Valley Acclimation Ponds were also detected. Sockeye passage rapidly over the past week as the peak of Salmon River migrants appear to have passed through the Snake River.

At Rock Island dam the daily passage indices for coho predominated in the sample. Coho indices have remained above 1,000 per day over the past few weeks on average. Sockeye indices were also relatively high this week with the average index for those species at 200 per day compared to 130 per day last week.

The predominant salmonids in the sample at McNary Dam the past week were again yearling Chinook, but the numbers declined with the passage index averaging 16,000 per day compared to 91,000 last week. Subyearling Chinook indices began increasing over the past two weeks and by June 4 subyearling indices had surpassed those of yearling Chinook.

At Bonneville Dam all Spring migrant indices were down. Yearling Chinook passage predominated over the past week with index averaging 21,000 per day compared to 54,000 per day last week. Subyearling numbers were low averaging about 4,000 per day over the past two weeks.

## **Hatchery Release:**

**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. Two releases of subyearling fall Chinook into the Snake River basin were completed over the last week. The release of about 200,000 Lyons Ferry subyearlings into Couse Creek that began several weeks ago ended on June 1<sup>st</sup>. A release of 500,000 subyearling fall Chinook (200k unmarked) reared by the Nez Perce Tribal Hatchery was completed around May 30<sup>th</sup>. Two other releases of subyearling fall Chinook began this last week. The release of 800,000 (500k unmarked) and 200,000 subyearlings into the Clearwater (Nez Perce Tribal Hatchery) and Snake River (Lyon's Ferry NFH) basins respectively began on about June 1<sup>st</sup>. There were no other releases scheduled for this week in this zone.

In addition, several releases of subyearling fall Chinook to the Snake River are scheduled to begin or end over the next two weeks. Both of the aforementioned fall Chinook releases are scheduled to be completed on the 15<sup>th</sup> of June. On June 10<sup>th</sup>, fall Chinook subyearlings are scheduled for release into Lukes Gulch and Cedar Flats acclimation facilities in amounts of 200,000 each. Another 117k fall Chinook subyearling release is scheduled for release into the Clearwater River on June 15<sup>th</sup>. Finally a subyearling spring Chinook release is also scheduled on June 15<sup>th</sup> in the Lostine River (61,000 parr). There are no other scheduled releases of juvenile salmonids to this zone 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. Several volitional releases of anadromous salmonids that began weeks ago ended on about May 31<sup>st</sup> including: 453,000 subyearling summer Chinook released from Wells Hatchery, 140,000 unmarked yearling spring Chinook released to Lake Wenatchee, and 460,000 summer steelhead juveniles released into the Methow River (72%), Okanogan River(28%). About 99,000 of the Methow River releases were marked with yellow Elastomer tags.

Looking ahead, there are several releases of fall and summer Chinook scheduled to begin on June 15<sup>th</sup> in the Mid-Columbia. About 10 million total fall Chinook subyearlings are scheduled for release from Ringold Springs and Priest Rapids hatcheries. These two releases are about 79% unmarked in total. Also, nearly

¾ million subyearling summer Chinook are scheduled for release from Turtle Rock Hatchery. There are no other scheduled releases of juvenile salmonids to 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 anadromous salmonid juveniles to this zone over the past week. Looking ahead, on June 18<sup>th</sup> a release of 450,000 subyearling fall Chinook is scheduled for the Little Salmon River.

**Adult Fish Passage:** The summer Chinook count began June 1<sup>st</sup> at Bonneville Dam. Daily passage numbers at Bonneville Dam ranged between 1861 and 2233 adult summer Chinook in the last week. The 2009 summer Chinook count of 5959 is about 1.76 times greater than the 2008 count and 1.64 times greater than the 10 year average. The summer Chinook jack count of 2656 is about 4.40 times greater than the 2008 of 603 and about 6.1 times greater than the 10 year average.

Adult spring Chinook counts at Bonneville Dam ended on May 31<sup>st</sup>. The total 2009 spring Chinook count of 114525 was about 91.2% of the 2008 count and about 71.5% of the 10 year average. The 2009 Bonneville Dam spring Chinook jack count of 66631 is about 3.79 times greater than the 2008 count of 17554 and 5.79 times greater than the 10 year average of 11507. At Bonneville Dam, the 2009 spring Chinook migration arrived later than both the 2008 and 10 year average migration.

At Willamette Falls Dam, 14770 adult spring Chinook have been counted so far this year. The 2009 adult spring Chinook count at Willamette Falls Dam is 2.88 times greater than the 2008 count of 5120. At The Dalles Dam the 2009 adult spring Chinook count of 93908 is about 98.3% of the 2008 count and 82.5% of the 10 year average. The 2009 spring jack count at The Dalles Dam of 53646 is 3.39 times greater than the 2009 count and 5.94 times greater than the 10 year average. At McNary Dam 65173 adult spring Chinook have been counted. The 2009 adult spring Chinook count at McNary Dam is about 1.01 times greater than the 2008 count and only about 77.9% of the 10 year average. The 2009 McNary Dam spring Chinook jack count of 41310 is 3.66 times greater than the 2008 count of 11286 and 5.94 times greater than the 10 year average count of 6956. The 2009 adult spring Chinook count at Lower Granite Dam of 35753 is 95.7% of the 2008 count and 77.9% of the 10 year average. The

2009 Lower Granite spring Chinook jack count of 24401 is 3.19 times greater than the 2008 count and 6.20 times greater than the 10 year average.

The Bonneville Dam 2009 steelhead count of 5027 is about 1.22 times greater than the 2008 count of 4100. The 2009 steelhead count is about 1.09 times greater than of the 10-year average of 4611. In the Snake River, this year's Lower Granite steelhead count of 10785 is 1.39 times greater than the 2008 count of 7783 and 1.39 times greater than the 10 year average of 7767. The 2009 wild steelhead count as of June 4<sup>th</sup> was 3383. At Rock Island Dam, as of June 2nd, 100 adult steelhead have been counted and at Rocky Reach Dam, 421 adult steelhead have been counted so far this season. At Willamette Falls Dam, the 2009 count for steelhead was 8070, as of May 28th. This year's steelhead count is only about 78.6% of the 2008 count of 10257 at Willamette Falls Dam for the same date range.

Daily adult sockeye passage numbers at Bonneville Dam ranged between 9 and 130 last week. The 2009 adult sockeye count at Bonneville Dam of 305 is about 1.78 times greater than the 2008 count of 171 and about 1.90 times greater than the 10 year average.

**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
05/22/2009	126.9	0.0	120.1	0.0	130.6	8.0	121.8	0.0	128.2	12.9	132.5	19.3	126.5	21.4
05/23/2009	125.0	0.0	124.3	0.0	138.0	8.4	133.3	0.0	140.1	14.3	145.7	19.6	142.4	21.5
05/24/2009	110.0	0.0	119.7	0.0	135.4	8.6	135.4	0.0	144.0	14.3	151.9	19.8	145.5	22.2
05/25/2009	121.4	0.0	118.7	0.0	134.5	8.5	125.8	0.0	133.9	13.9	142.3	19.3	141.7	22.0
05/26/2009	127.6	0.0	130.9	0.0	144.0	8.8	140.3	0.0	151.1	15.9	154.5	21.9	142.0	22.3
05/27/2009	146.1	0.0	142.3	0.0	158.8	10.0	154.5	0.0	163.9	14.7	171.5	34.6	166.4	28.6
05/28/2009	134.4	0.0	135.2	0.0	156.5	10.0	156.8	0.0	166.7	15.1	179.6	46.6	179.6	43.1
05/29/2009	129.9	0.0	138.3	0.0	158.0	9.5	158.0	0.0	167.2	16.5	172.9	44.6	172.6	33.2
05/30/2009	120.7	0.2	121.9	0.0	144.7	9.5	142.0	0.0	154.9	16.0	162.0	29.6	160.6	28.2
05/31/2009	120.8	0.3	115.3	0.0	140.7	8.6	136.2	0.0	150.1	14.6	155.8	25.3	152.8	26.2
06/01/2009	117.6	0.2	120.2	0.0	144.2	9.0	140.2	0.0	152.9	17.2	160.9	24.4	164.8	23.5
06/02/2009	127.2	0.2	130.8	0.0	148.1	9.1	143.6	0.0	155.2	16.5	159.1	29.2	148.6	21.4
06/03/2009	154.3	0.1	152.6	0.0	174.6	10.0	168.7	0.0	181.5	16.4	194.2	59.3	193.1	58.4
06/04/2009	160.5	0.2	159.2	4.1	179.3	10.4	174.8	0.0	186.8	19.1	187.4	65.4	190.5	68.5

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

Date	Dworshak		Hells Canyon		Lower Granite		Little Goose		Lower Monumental		Ice Harbor	
	Flow	Spill	Inflow	Outflow	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill
05/22/2009	1.7	0.0	24.3	23.8	143.0	37.0	133.2	29.4	139.3	27.5	142.0	69.0
05/23/2009	1.6	0.0	24.5	24.2	137.7	43.2	127.6	29.4	132.5	24.6	134.9	71.9
05/24/2009	1.6	0.0	23.5	22.4	145.2	56.9	137.0	30.9	144.0	35.1	147.2	66.6
05/25/2009	1.6	0.0	23.0	22.8	164.6	57.1	153.8	45.2	161.5	46.0	165.0	81.5
05/26/2009	1.6	0.0	23.6	24.0	163.9	56.5	152.5	43.0	160.1	43.4	164.7	82.1
05/27/2009	3.7	0.0	23.1	21.1	156.9	52.9	147.1	37.3	156.4	40.4	159.9	77.3
05/28/2009	4.4	0.0	22.4	24.6	157.3	54.3	145.9	36.1	150.8	36.7	154.6	74.5
05/29/2009	4.4	0.0	22.3	24.9	160.9	57.2	149.9	40.6	158.8	42.5	162.5	78.8
05/30/2009	4.4	0.0	24.0	22.0	160.9	64.8	153.2	44.0	159.8	43.1	163.8	80.6
05/31/2009	4.4	0.0	22.9	21.6	169.3	76.7	159.7	50.7	167.8	50.5	169.6	86.3
06/01/2009	4.3	0.0	23.0	20.6	167.6	75.3	156.4	47.7	162.7	54.3	167.2	84.1
06/02/2009	6.6	2.2	23.0	23.6	160.1	63.8	151.0	41.6	158.5	49.1	163.5	80.8
06/03/2009	7.1	2.7	23.8	21.2	148.7	43.3	138.3	28.9	145.5	29.6	149.8	68.9
06/04/2009	7.1	2.8	---	---	142.5	40.5	132.4	25.8	138.3	24.1	140.7	65.9

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

Date	McNary		John Day		The Dalles		Bonneville			
	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	PH1	PH2
05/22/2009	302.7	127.7	314.4	116.2	307.3	123.1	329.3	139.0	73.8	104.5
05/23/2009	285.4	115.1	282.8	110.5	271.8	109.1	302.0	115.1	71.9	102.9
05/24/2009	305.2	133.1	301.4	108.5	293.5	112.5	291.4	104.3	72.9	101.5
05/25/2009	330.3	161.1	322.3	103.1	322.2	115.7	332.0	135.1	74.2	110.6
05/26/2009	331.3	163.8	338.8	101.5	327.7	125.3	344.2	149.3	74.5	108.3
05/27/2009	336.0	170.5	338.5	114.7	325.0	130.3	341.4	149.6	75.2	104.5
05/28/2009	341.3	173.0	332.2	124.2	321.3	128.6	340.4	149.5	74.2	104.6
05/29/2009	349.8	174.1	345.1	110.8	349.4	115.3	343.5	149.4	74.8	107.3
05/30/2009	343.4	169.1	343.2	103.2	334.0	110.0	342.6	148.5	75.2	106.7
05/31/2009	340.7	165.3	345.8	94.8	331.4	104.4	345.2	148.8	75.7	108.8
06/01/2009	345.5	170.5	346.0	89.9	330.4	99.8	346.1	149.3	75.1	109.6
06/02/2009	335.0	167.1	340.9	90.0	331.7	100.0	343.8	149.5	74.4	107.8
06/03/2009	336.1	167.7	338.6	90.0	326.9	100.0	344.5	149.6	74.6	108.2
06/04/2009	350.4	174.0	335.3	90.0	325.5	100.0	344.3	149.5	74.8	107.9

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

Site	Date	Species	Number of Fish	Number w GBT signs	Number w Fin Signs	% Fin GBT	% Severe Fin GBT	Number of Fish with Fin GBT Listed by Highest Rank			
								Rank 1	Rank 2	Rank 3	Rank 4
<b>Lower Granite Dam</b>											
	05/26/09	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	06/01/09	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
<b>Lower Monumental Dam</b>											
	05/26/09	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	06/02/09	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
<b>McNary Dam</b>											
	05/28/09	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	06/01/09	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
<b>Bonneville Dam</b>											
	05/26/09	Chinook + Steelhead	108	1	1	0.92%	0.00%	1	0	0	0
	06/02/09	Chinook + Steelhead	102	2	2	1.96%	0.00%	2	0	0	0
<b>Rock Island Dam</b>											
	05/26/09	Chinook + Steelhead	100	1	1	1.00%	0.00%	1	0	0	0
	06/02/09	Chinook + Steelhead	100	1	1	1.00%	0.00%	1	0	0	0
	06/04/09	Chinook + Steelhead	50	0	0	0.00%	0.00%	0	0	0	0

### Hatchery Releases Last Two Weeks

**Hatchery Release Summary**

From: 5/22/2009 to 06/04/09

Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
National Marine Fisheries Service	Lyons Ferry Hatchery	CH0	FA	2009	202,369	05-11-09	05-29-09	Couse Creek	Snake River
<b>National Marine Fisheries Service Total</b>					<b>202,369</b>				
Nez Perce Tribe	Dworshak NFH	CO	UN	2010	60,000	05-01-09	05-31-09	Lapwai Creek	Clearwater River M F
Nez Perce Tribe	Dworshak NFH	CO	UN	2010	500,000	05-01-09	05-31-09	Clear Creek	Clearwater River M F
Nez Perce Tribe	Lyons Ferry Hatchery	CH0	FA	2009	400,000	05-26-09	05-27-09	Pittsburg Landing Acclim Pond	Snake River
Nez Perce Tribe	Lyons Ferry Hatchery	CH0	FA	2009	500,000	05-26-09	05-26-09	Cpt John Acclim Pond	Snake River
Nez Perce Tribe	Lyons Ferry Hatchery	CH0	FA	2009	500,000	05-27-09	05-27-09	Big Canyon (Clearwater River)	Clearwater River M F
Nez Perce Tribe	Nez Perce Tribal Hatchery	CH0	FA	2009	500,000	05-30-09	05-30-09	Clearwater River	Snake River
Nez Perce Tribe	Nez Perce Tribal Hatchery	CH0	FA	2009	800,000	06-01-09	06-15-09	Nez Perce Tribal Hatchery	Clearwater River M F
<b>Nez Perce Tribe Total</b>					<b>3,260,000</b>				
Washington Dept. of Fish and Wildlife	Eastbank Hatchery	CH1	SP	2009	140,000	05-01-09	05-31-09	Lake Wenatchee	Wenatchee River
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	CH0	FA	2009	200,000	05-15-09	06-01-09	Couse Creek	Snake River
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	CH0	FA	2009	200,000	06-01-09	06-15-09	Lyons Ferry Hatchery	Snake River
Washington Dept. of Fish and Wildlife	Wells Hatchery	CH0	SU	2009	453,000	05-15-09	05-31-09	Wells Hatchery	Mid-Columbia River
Washington Dept. of Fish and Wildlife	Wells Hatchery	ST	SU	2009	110,000	04-20-09	05-31-09	Methow River	Methow River
Washington Dept. of Fish and Wildlife	Wells Hatchery	ST	SU	2009	110,000	04-20-09	05-31-09	Twisp River	Methow River
Washington Dept. of Fish and Wildlife	Wells Hatchery	ST	SU	2009	110,000	05-01-09	05-31-09	Chewuch River	Methow River
Washington Dept. of Fish and Wildlife	Wells Hatchery	ST	SU	2009	130,000	04-20-09	05-31-09	Okanogan River	Okanogan River
<b>Washington Dept. of Fish and Wildlife Total</b>					<b>1,453,000</b>				
<b>Grand Total</b>					<b>4,915,369</b>				

### Hatchery Releases Next Two Weeks

Hatchery Release Summary									
From:		6/5/2009		to		6/18/2009			
Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
National Marine Fisheries Service	Lyons Ferry Hatchery	CH0	FA	2009	117,362	06-15-09	07-03-09	Big Canyon (Clearwater River)	Clearwater River M F
<b>National Marine Fisheries Service Total</b>					<b>117,362</b>				
Nez Perce Tribe	Lookingglass Hatchery	CH0	SP	2010	61,000	06-15-09	07-01-09	Lostine River	Wallowa River
Nez Perce Tribe	Nez Perce Tribal Hatchery	CH0	FA	2009	200,000	06-10-09	06-10-09	Cedar Flats Acclim.	Selway River
Nez Perce Tribe	Nez Perce Tribal Hatchery	CH0	FA	2009	200,000	06-10-09	06-10-09	Lukes Gulch Acclim.	S Fk Clearwater River
Nez Perce Tribe	Nez Perce Tribal Hatchery	CH0	FA	2009	800,000	06-01-09	06-15-09	Nez Perce Tribal Hatchery	Clearwater River M F
<b>Nez Perce Tribe Total</b>					<b>1,261,000</b>				
U.S. Fish and Wildlife Service	Little White Salmon NFH	CH0	FA	2009	4,500,000	06-18-09	06-18-09	Little White Salmon Hatchery	Little White Salmon River
<b>U.S. Fish and Wildlife Service Total</b>					<b>4,500,000</b>				
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	CH0	FA	2009	200,000	06-01-09	06-15-09	Lyons Ferry Hatchery	Snake River
Washington Dept. of Fish and Wildlife	Priest Rapids Hatchery	CH0	FA	2009	6,700,000	06-15-09	06-30-09	Priest Rapids Hatchery	Mid-Columbia River
Washington Dept. of Fish and Wildlife	Ringold Springs Hatchery	CH0	FA	2009	3,450,000	06-15-09	06-30-09	Ringold Springs Hatchery	Mid-Columbia River
Washington Dept. of Fish and Wildlife	Turtle Rock Hatchery	CH0	SU	2009	325,000	06-15-09	06-30-09	Turtle Rock Hatchery	Mid-Columbia River
Washington Dept. of Fish and Wildlife	Turtle Rock Hatchery	CH0	SU	2009	418,000	06-15-09	06-30-09	Turtle Rock Hatchery	Mid-Columbia River
<b>Washington Dept. of Fish and Wildlife Total</b>					<b>11,093,000</b>				
<b>Grand Total</b>					<b>16,971,362</b>				

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

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

Date	<u>Hungry H. Dnst</u>				<u>Boundary</u>				<u>Grand Coulee</u>				<u>Grand C. Tlwr</u>				<u>Chief Joseph</u>			
	<u>24 h</u>		<u>12 h</u>		#	<u>24 h</u>		<u>12 h</u>		#	<u>24 h</u>		<u>12 h</u>		#	<u>24 h</u>		<u>12 h</u>		#
	Avg	Avg	High	hr		Avg	Avg	High	hr		Avg	Avg	High	hr		Avg	Avg	High	hr	
5/22	98	98	99	24	118	119	120	24	109	109	109	24	107	107	108	24	108	108	108	24
5/23	99	100	100	24	122	123	124	23	109	109	110	24	107	108	108	23	108	109	109	24
5/24	99	99	100	24	123	124	125	23	109	110	110	24	106	107	108	23	108	109	109	24
5/25	98	99	99	24	123	124	125	20	109	109	110	24	107	107	108	20	108	108	109	24
5/26	99	99	99	24	124	124	126	22	109	110	110	24	107	108	108	22	108	108	108	24
5/27	99	99	99	24	124	124	125	24	109	109	110	24	106	107	107	24	108	108	109	24
5/28	98	99	99	24	124	125	126	24	109	110	110	24	106	107	108	24	108	108	109	24
5/29	99	99	99	24	126	127	128	23	109	109	109	24	106	107	109	23	108	108	108	24
5/30	99	100	100	24	126	127	128	23	110	110	111	24	107	108	110	23	108	109	109	24
5/31	100	100	101	24	126	127	127	24	110	110	110	24	107	108	109	24	109	109	110	24
6/1	99	99	99	24	126	127	128	24	110	110	110	5	106	107	109	24	109	109	110	24
6/2	99	101	102	24	127	127	128	22	110	110	111	13	108	109	111	22	108	109	109	24
6/3	104	107	107	24	126	127	128	22	110	111	111	24	109	110	111	22	109	109	110	24
6/4	106	106	107	24	128	128	129	21	112	112	113	24	110	111	112	21	109	110	110	24

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

Date	<u>Chief J. Dnst</u>				<u>Wells</u>				<u>Wells Dwnstrm</u>				<u>Rocky Reach</u>				<u>Rocky R. Tlwr</u>			
	<u>24 h</u>		<u>12 h</u>		#	<u>24 h</u>		<u>12 h</u>		#	<u>24 h</u>		<u>12 h</u>		#	<u>24 h</u>		<u>12 h</u>		#
	Avg	Avg	High	hr		Avg	Avg	High	hr		Avg	Avg	High	hr		Avg	Avg	High	hr	
5/22	107	107	108	24	108	109	109	24	109	111	111	24	109	109	110	24	107	108	108	24
5/23	107	108	108	24	108	109	109	24	110	111	112	24	110	110	110	24	108	108	109	24
5/24	108	108	109	24	108	109	109	24	110	111	112	24	110	110	111	24	108	108	108	24
5/25	107	108	108	24	108	109	109	24	110	111	112	24	110	110	110	24	107	108	108	24
5/26	107	107	108	24	107	108	108	24	110	110	110	24	110	110	110	24	107	108	108	24
5/27	107	107	108	24	107	108	108	24	109	110	110	24	109	109	110	24	107	108	108	24
5/28	107	108	109	24	108	109	109	24	110	111	111	24	109	109	110	24	107	107	107	24
5/29	107	107	107	24	109	109	110	24	111	112	112	24	110	110	111	24	107	108	108	24
5/30	107	108	108	24	109	109	110	24	111	111	112	24	110	111	111	24	108	108	109	24
5/31	108	108	109	24	109	109	110	24	111	111	112	24	110	111	111	24	108	109	109	24
6/1	108	108	109	24	109	109	110	24	111	111	112	24	110	110	110	24	107	108	108	24
6/2	107	108	109	24	109	109	109	24	111	111	111	24	109	110	110	24	107	108	108	24
6/3	108	108	109	24	109	109	109	24	111	111	112	24	110	110	111	24	108	108	109	24
6/4	109	110	114	24	110	110	111	24	112	112	113	24	110	111	111	24	108	108	109	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>24 h</u>		<u>12 h</u>		#	<u>24 h</u>		<u>12 h</u>		#	<u>24 h</u>		<u>12 h</u>		#
	Avg	Avg	High	hr		Avg	Avg	High	hr		Avg	Avg	High	hr		Avg	Avg	High	hr	
5/22	108	109	109	24	111	111	113	24	113	115	118	24	112	113	114	24	111	112	114	24
5/23	109	110	110	24	112	112	115	24	113	115	118	24	112	113	113	24	112	112	113	24
5/24	109	110	110	24	112	112	113	24	111	112	114	24	112	112	113	24	110	111	111	24
5/25	109	110	110	24	112	112	113	24	110	111	113	24	112	113	115	24	110	110	112	24
5/26	109	109	109	24	112	112	113	24	110	110	110	24	112	112	113	24	110	111	112	13
5/27	109	109	109	24	111	111	111	24	111	112	113	24	112	113	114	24	---	---	---	0
5/28	108	109	109	23	110	111	111	23	112	114	115	24	113	114	119	24	114	114	116	13
5/29	108	110	110	24	111	112	113	23	113	114	117	24	113	114	116	24	113	114	115	24
5/30	109	110	110	24	112	113	114	24	112	113	114	24	113	113	113	24	113	113	114	24
5/31	109	110	110	24	112	113	115	24	112	114	115	24	113	113	113	24	112	112	114	24
6/1	109	109	110	24	112	112	113	24	112	113	114	24	113	113	113	24	112	112	113	24
6/2	108	109	109	24	111	112	114	24	110	111	111	24	112	113	115	24	111	111	112	24
6/3	109	109	110	24	111	111	112	24	111	112	113	24	114	116	118	24	112	113	116	24
6/4	109	110	111	24	112	113	113	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>Clrwr-Peck</u>			<u>Anatone</u>			# hr				
	<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	<u>24 h</u>	<u>12 h</u>	High					
	Avg	Avg		Avg	Avg		Avg	Avg		Avg	Avg		Avg	Avg			Avg			
5/22	114	114	114	24	110	111	111	24	104	105	106	24	103	105	105	24	107	107	108	24
5/23	114	114	114	24	111	111	112	24	104	105	106	24	103	104	105	24	106	107	107	24
5/24	113	113	114	24	110	111	111	24	104	105	105	24	104	105	106	24	106	107	107	24
5/25	113	113	113	24	110	110	111	24	104	104	105	24	105	106	106	24	108	109	109	24
5/26	113	113	113	24	109	110	110	24	104	104	105	24	104	105	106	24	108	108	109	24
5/27	113	114	115	24	109	111	111	24	102	103	104	24	104	105	106	24	107	108	109	24
5/28	115	116	117	24	111	113	114	24	101	101	102	23	104	105	106	23	107	108	109	24
5/29	115	116	116	24	113	114	114	24	101	102	102	24	104	105	105	24	107	108	108	24
5/30	115	115	116	24	113	114	115	24	101	102	103	15	104	104	106	15	108	108	109	24
5/31	114	114	115	24	112	113	114	24	102	102	102	20	104	105	106	20	108	109	109	24
6/1	114	114	114	24	111	112	112	24	101	102	102	24	104	105	105	24	108	109	109	24
6/2	113	113	113	24	110	110	111	24	107	109	110	24	104	105	105	24	108	108	109	24
6/3	116	118	118	24	110	111	112	24	107	108	108	23	104	105	106	24	107	108	108	24
6/4	---	---	---	0	113	114	115	24	108	108	108	24	104	104	105	16	107	108	108	24

### Total Dissolved Gas Saturation Data at Snake River Sites

Date	<u>Clrwr-Lewiston</u>			<u>Lower Granite</u>			<u>L. Granite Tlwr</u>			<u>Little Goose</u>			<u>L. Goose Tlwr</u>			# hr				
	<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	<u>24 h</u>	<u>12 h</u>	High					
	Avg	Avg		Avg	Avg		Avg	Avg		Avg	Avg		Avg	Avg			Avg			
5/22	103	104	105	24	107	108	108	24	117	117	118	24	116	117	117	24	115	116	116	24
5/23	103	104	104	24	107	108	108	24	119	120	123	24	115	116	117	24	115	115	115	24
5/24	103	104	104	24	107	107	108	24	121	123	126	24	114	115	115	24	115	115	117	24
5/25	104	105	105	24	106	106	106	24	122	123	123	24	116	117	119	24	118	119	120	24
5/26	104	104	105	24	107	107	108	24	122	122	122	24	117	118	119	24	118	118	122	24
5/27	103	104	105	24	107	107	107	24	120	121	122	24	117	117	118	24	117	117	117	24
5/28	103	104	105	23	107	107	108	24	121	121	122	24	123	127	131	24	117	117	118	24
5/29	103	104	104	24	107	107	107	24	122	123	124	24	126	135	139	24	117	117	118	24
5/30	103	104	105	15	107	107	108	24	124	125	125	24	117	118	118	24	118	119	120	24
5/31	104	104	105	20	107	108	108	24	127	127	127	24	119	119	120	24	119	120	120	24
6/1	103	104	104	24	107	107	108	24	127	127	127	24	121	122	122	24	119	119	120	24
6/2	103	104	105	24	107	107	107	24	123	125	126	24	120	121	121	24	118	118	119	24
6/3	103	104	105	24	107	107	108	24	118	119	121	24	121	121	122	24	117	117	117	24
6/4	103	103	104	24	107	108	108	24	118	118	118	24	119	120	121	24	116	116	117	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>			# hr				
	<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	<u>24 h</u>	<u>12 h</u>	High					
	Avg	Avg		Avg	Avg		Avg	Avg		Avg	Avg		Avg	Avg			Avg			
5/22	115	117	118	24	119	120	122	24	115	115	116	24	120	120	121	24	---	---	---	0
5/23	117	117	118	24	119	120	122	24	116	117	118	24	120	120	121	24	---	---	---	0
5/24	116	116	117	24	118	119	121	24	117	117	118	24	119	120	121	24	---	---	---	0
5/25	115	115	116	24	120	121	122	24	116	116	117	24	121	122	123	24	---	---	---	0
5/26	118	119	119	24	120	120	121	24	116	116	116	24	121	121	122	24	---	---	---	0
5/27	118	118	118	24	119	120	120	24	117	117	118	24	120	120	121	24	---	---	---	0
5/28	117	118	118	24	120	121	122	24	118	118	118	24	120	120	121	24	---	---	---	0
5/29	118	118	119	24	119	119	120	24	118	118	118	24	120	121	121	24	---	---	---	0
5/30	119	119	119	24	120	121	122	24	118	118	119	24	121	122	123	24	---	---	---	0
5/31	119	120	120	24	121	122	122	24	118	118	118	24	121	122	123	24	---	---	---	0
6/1	121	121	122	24	121	121	123	24	119	119	119	24	122	122	123	24	---	---	---	0
6/2	119	120	120	24	120	120	121	24	118	118	119	24	121	122	123	24	---	---	---	0
6/3	119	119	120	24	121	122	122	24	118	118	119	24	120	120	121	24	---	---	---	0
6/4	119	120	120	24	121	121	122	24	119	119	120	24	119	119	120	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

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>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>				
5/22	114	115	116	24	118	118	119	24	110	110	111	24	115	116	116	24	114	115	115	24
5/23	115	115	116	24	118	118	119	24	111	112	112	24	114	114	115	24	113	114	115	24
5/24	115	115	116	24	118	118	118	24	113	114	114	24	113	114	115	24	113	114	114	24
5/25	114	115	116	24	118	119	119	24	114	114	115	24	113	113	114	24	113	114	115	24
5/26	113	113	114	24	119	119	119	24	113	113	114	24	112	113	113	24	113	113	114	24
5/27	112	113	115	24	119	119	120	24	112	113	113	24	116	118	118	23	114	115	115	24
5/28	113	115	115	24	119	119	120	24	113	114	114	24	118	119	119	24	114	115	116	24
5/29	113	114	115	24	120	120	120	24	115	115	116	24	118	118	118	24	115	115	116	24
5/30	114	115	116	24	119	119	120	24	117	118	118	24	117	118	118	24	115	116	117	24
5/31	115	115	117	24	119	120	120	24	118	118	119	24	116	117	117	24	116	117	117	24
6/1	115	115	116	24	120	120	121	24	118	118	118	24	117	117	117	24	116	117	117	24
6/2	113	114	115	24	119	119	120	24	117	117	118	24	117	117	117	24	116	116	116	24
6/3	112	113	113	24	119	119	120	24	117	117	117	24	116	117	117	24	116	116	117	24
6/4	112	113	114	24	119	119	120	24	116	116	117	24	118	119	120	24	115	115	116	24

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>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>				
5/22	118	119	120	24	117	118	119	24	---	---	---	0	117	118	119	24	123	124	124	24
5/23	118	118	118	24	116	117	119	24	---	---	---	0	117	118	119	24	121	122	124	24
5/24	117	117	118	24	112	113	114	24	---	---	---	0	114	115	116	24	119	120	121	24
5/25	116	117	117	24	112	112	112	24	---	---	---	0	113	115	115	24	122	123	124	24
5/26	117	118	118	24	113	114	114	24	---	---	---	0	115	117	117	24	123	124	126	24
5/27	118	119	119	24	115	116	117	24	---	---	---	0	116	118	118	24	124	124	124	24
5/28	119	120	120	24	118	119	120	24	---	---	---	0	118	120	121	24	124	124	124	24
5/29	118	119	120	24	119	119	120	24	---	---	---	0	120	121	121	24	124	124	124	24
5/30	118	118	119	24	117	118	119	24	---	---	---	0	119	120	121	24	124	124	124	24
5/31	118	119	119	24	116	116	117	24	---	---	---	0	118	119	120	24	124	124	124	24
6/1	118	118	119	24	116	116	117	24	---	---	---	0	117	118	119	24	124	124	124	24
6/2	118	118	118	24	116	117	117	24	---	---	---	0	117	118	118	24	124	124	124	24
6/3	118	118	118	24	117	117	118	24	---	---	---	0	118	119	119	24	124	124	124	24
6/4	117	118	118	24	117	117	118	24	---	---	---	0	118	119	119	24	124	124	124	24

## Two-Week Summary of Passage Indices

Source: Fish Passage Center

Updated: 6/5/2009 7:48

### 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>

<b>COMBINED YEARLING CHINOOK</b>											
Date	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)
05/22/2009	---	12	90	---	73,317	86,282	31,874	155	---	38,090	61,628
05/23/2009	*	17	63	---	---	102,343	30,127	185	118,347	36,183	65,159
05/24/2009	*	13	58	---	---	46,197	12,091	126	---	20,769	56,690
05/25/2009	*	10	80	---	---	34,634	15,123	96	88,745	29,256	64,283
05/26/2009	*	10	101	---	10,355	63,279	15,531	100	---	40,843	53,045
05/27/2009	---	16	86	---	7,572	30,865	16,515	201	68,676	33,827	39,329
05/28/2009	*	2	74	---	4,435	12,994	7,062	247	---	25,970	36,198
05/29/2009	---	3	---	---	7,294	7,017	8,298	159	17,768	13,943	42,290
05/30/2009	*	12	---	---	2,211	4,087	4,006	142	---	16,452	31,834
05/31/2009	---	22	---	---	3,495	3,809	2,959	113	21,599	18,702	26,507
06/01/2009	*	4	---	---	732	4,356	2,639	33	---	10,629	19,870
06/02/2009	*	4	---	---	1,803	2,031	1,074	15	20,725	11,432	13,714
06/03/2009	*	---	---	---	2,510	1,421	1,032	23	---	7,779	6,918
06/04/2009	*	---	---	---	1,401	1,529	1,537	20	4,652	7,716	7,911
06/05/2009	---	---	---	---	---	---	---	---	---	---	---
<b>Total:</b>	<b>0</b>	<b>125</b>	<b>552</b>	<b>0</b>	<b>115,125</b>	<b>400,844</b>	<b>149,868</b>	<b>1,615</b>	<b>340,512</b>	<b>311,591</b>	<b>525,376</b>
<b># Days:</b>	<b>0</b>	<b>12</b>	<b>7</b>	<b>0</b>	<b>11</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>7</b>	<b>14</b>	<b>14</b>
<b>Average:</b>	<b>0</b>	<b>10</b>	<b>79</b>	<b>0</b>	<b>10,466</b>	<b>28,632</b>	<b>10,705</b>	<b>115</b>	<b>48,645</b>	<b>22,257</b>	<b>37,527</b>
<b>YTD</b>	<b>37,667</b>	<b>44,438</b>	<b>20,207</b>	<b>29,713</b>	<b>3,066,452</b>	<b>2,422,661</b>	<b>443,511</b>	<b>9,099</b>	<b>2,213,045</b>	<b>960,789</b>	<b>1,676,642</b>

<b>COMBINED SUBYEARLING CHINOOK</b>											
Date	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)
05/22/2009	*	0	0	---	6,511	6,531	261	5	---	0	3,795
05/23/2009	*	0	0	---	---	5,657	122	3	1,721	0	5,468
05/24/2009	*	3	0	---	---	6,223	130	9	---	246	2,522
05/25/2009	*	0	0	---	---	6,373	550	7	730	87	5,156
05/26/2009	*	2	0	---	14,986	22,216	553	11	---	318	4,365
05/27/2009	---	0	0	---	18,779	18,893	819	12	2,964	946	3,758
05/28/2009	*	0	0	---	16,209	27,767	3,664	7	---	623	3,230
05/29/2009	---	0	---	---	49,082	34,777	5,195	13	2,540	644	2,324
05/30/2009	*	0	---	---	51,007	25,777	8,564	6	---	806	3,625
05/31/2009	---	1	---	---	41,592	44,977	8,944	16	3,272	1,924	4,718
06/01/2009	*	0	---	---	37,708	65,655	14,328	88	---	1,698	4,166
06/02/2009	*	0	---	---	50,793	82,923	21,901	55	5,886	1,703	4,730
06/03/2009	*	---	---	---	26,664	31,300	25,548	69	---	1,975	4,330
06/04/2009	*	---	---	---	19,475	78,872	24,770	107	8,589	2,894	5,704
06/05/2009	---	---	---	---	---	---	---	---	---	---	---
<b>Total:</b>	<b>0</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>332,806</b>	<b>457,941</b>	<b>115,349</b>	<b>408</b>	<b>25,702</b>	<b>13,864</b>	<b>57,891</b>
<b># Days:</b>	<b>0</b>	<b>12</b>	<b>7</b>	<b>0</b>	<b>11</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>7</b>	<b>14</b>	<b>14</b>
<b>Average:</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>30,255</b>	<b>32,710</b>	<b>8,239</b>	<b>29</b>	<b>3,672</b>	<b>990</b>	<b>4,135</b>
<b>YTD</b>	<b>0</b>	<b>14</b>	<b>15</b>	<b>545</b>	<b>371,804</b>	<b>475,162</b>	<b>115,809</b>	<b>715</b>	<b>28,719</b>	<b>14,669</b>	<b>2,014,735</b>

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)
05/22/2009 *	---	0	0	---	8,775	5,442	1,176	938	---	7,541	29,144
05/23/2009 *	---	0	0	---	---	10,028	1,225	1,023	17,558	5,468	35,238
05/24/2009 *	---	0	0	---	---	5,186	260	959	---	6,567	28,546
05/25/2009 *	---	0	0	---	---	6,904	412	872	8,927	7,270	31,538
05/26/2009 *	---	0	0	---	2,177	3,417	968	1,454	---	10,011	28,371
05/27/2009	---	0	0	---	2,120	6,668	1,092	1,594	11,552	9,431	14,091
05/28/2009 *	---	0	0	---	3,364	3,438	466	1,537	---	7,999	11,768
05/29/2009	---	0	---	---	3,191	1,618	337	1,981	5,182	4,160	12,393
05/30/2009 *	---	0	---	---	632	928	414	1,832	---	4,195	15,444
05/31/2009	---	0	---	---	699	1,546	482	2,456	7,374	5,323	8,614
06/01/2009 *	---	0	---	---	915	1,035	226	1,985	---	4,127	7,897
06/02/2009 *	---	0	---	---	1,081	573	150	1,633	8,357	3,931	4,804
06/03/2009 *	---	---	---	---	1,098	135	129	1,480	---	3,161	2,292
06/04/2009 *	---	---	---	---	140	627	369	1,812	1,482	2,894	3,385
06/05/2009	---	---	---	---	---	---	---	---	---	---	---
<b>Total:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>24,192</b>	<b>47,545</b>	<b>7,706</b>	<b>21,556</b>	<b>60,432</b>	<b>82,078</b>	<b>233,525</b>
<b># Days:</b>	<b>0</b>	<b>12</b>	<b>7</b>	<b>0</b>	<b>11</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>7</b>	<b>14</b>	<b>14</b>
<b>Average:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2,199</b>	<b>3,396</b>	<b>550</b>	<b>1,540</b>	<b>8,633</b>	<b>5,863</b>	<b>16,680</b>
<b>YTD</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>332</b>	<b>75,762</b>	<b>68,639</b>	<b>13,562</b>	<b>29,738</b>	<b>106,687</b>	<b>147,986</b>	<b>464,227</b>

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)
05/22/2009 *	---	139	49	---	149,748	86,811	54,212	1,044	---	23,162	7,590
05/23/2009 *	---	164	63	---	---	133,444	48,008	1,164	27,391	24,765	20,353
05/24/2009 *	---	246	66	---	---	86,604	19,371	967	---	18,963	24,677
05/25/2009 *	---	220	74	---	---	71,760	24,884	713	17,530	12,637	32,471
05/26/2009 *	---	140	49	---	37,768	48,425	16,405	596	---	15,336	22,249
05/27/2009	---	117	44	---	28,319	39,735	16,925	498	14,421	15,475	12,024
05/28/2009 *	---	147	34	---	23,244	20,898	10,593	467	---	11,739	11,944
05/29/2009	---	115	---	---	26,441	20,760	9,782	286	5,729	9,949	8,985
05/30/2009 *	---	150	---	---	23,688	16,244	7,667	202	---	4,580	7,249
05/31/2009	---	83	---	---	22,893	19,536	7,156	243	4,384	4,295	6,808
06/01/2009 *	---	45	---	---	23,064	19,573	9,728	207	---	3,157	3,703
06/02/2009 *	---	63	---	---	21,252	17,330	7,596	222	4,800	2,906	2,890
06/03/2009 *	---	---	---	---	22,116	4,204	8,194	162	---	2,797	1,115
06/04/2009 *	---	---	---	---	15,972	18,051	8,482	188	1,287	1,808	1,203
06/05/2009	---	---	---	---	---	---	---	---	---	---	---
<b>Total:</b>	<b>0</b>	<b>1,629</b>	<b>379</b>	<b>0</b>	<b>394,505</b>	<b>603,375</b>	<b>249,003</b>	<b>6,959</b>	<b>75,542</b>	<b>151,569</b>	<b>163,261</b>
<b># Days:</b>	<b>0</b>	<b>12</b>	<b>7</b>	<b>0</b>	<b>11</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>7</b>	<b>14</b>	<b>14</b>
<b>Average:</b>	<b>0</b>	<b>136</b>	<b>54</b>	<b>0</b>	<b>35,864</b>	<b>43,098</b>	<b>17,786</b>	<b>497</b>	<b>10,792</b>	<b>10,826</b>	<b>11,662</b>
<b>YTD</b>	<b>1,833</b>	<b>23,664</b>	<b>9,611</b>	<b>8,297</b>	<b>4,319,125</b>	<b>3,435,565</b>	<b>675,523</b>	<b>16,820</b>	<b>790,843</b>	<b>886,316</b>	<b>660,574</b>

## Two-Week Summary of Passage Indices

<b>COMBINED SOCKEYE</b>												
	WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2	
Date	(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	
05/22/2009	*	---	0	0	---	2,831	2,721	3,005	67	---	5,540	2,884
05/23/2009	*	---	0	0	---	---	5,399	1,347	63	14,983	3,779	4,708
05/24/2009	*	---	0	0	---	---	2,077	780	111	---	2,052	4,156
05/25/2009	*	---	0	0	---	---	8	1,787	126	14,399	3,549	4,169
05/26/2009	*	---	0	0	---	1,262	4,000	553	155	---	4,211	4,304
05/27/2009		---	0	0	---	3,937	1,668	1,501	236	14,713	3,186	5,887
05/28/2009	*	---	0	0	---	1,529	1,852	466	187	---	3,947	3,556
05/29/2009	*	---	0	---	---	608	809	742	153	10,165	2,121	2,788
05/30/2009	*	---	0	---	---	632	396	760	165	---	3,999	4,413
05/31/2009		---	0	---	---	350	706	619	339	10,124	2,908	3,618
06/01/2009	*	---	0	---	---	915	591	528	210	---	3,483	2,802
06/02/2009	*	---	0	---	---	360	573	300	284	14,100	2,235	1,766
06/03/2009	*	---	---	---	---	157	270	323	157	---	1,885	677
06/04/2009	*	---	---	---	---	280	501	369	105	2,072	2,020	1,104
06/05/2009		---	---	---	---	---	---	---	---	---	---	---
<b>Total:</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>12,861</b>	<b>21,571</b>	<b>13,080</b>	<b>2,358</b>	<b>80,556</b>	<b>44,915</b>	<b>46,832</b>
<b># Days:</b>		<b>0</b>	<b>12</b>	<b>7</b>	<b>0</b>	<b>11</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>7</b>	<b>14</b>	<b>14</b>
<b>Average:</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,169</b>	<b>1,541</b>	<b>934</b>	<b>168</b>	<b>11,508</b>	<b>3,208</b>	<b>3,345</b>
<b>YTD</b>		<b>170</b>	<b>0</b>	<b>0</b>	<b>177</b>	<b>44,806</b>	<b>44,710</b>	<b>20,420</b>	<b>4,085</b>	<b>181,359</b>	<b>89,054</b>	<b>66,020</b>

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

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

### Definitions for Smolt Index Counts

- WTB (Collection) = Salmon River Trap at Whitebird : Collection Counts
- IMN (Collection) = Imnaha River Trap : Collection Counts
- GRN (Collection) = Grande Ronde River Trap : Collection Counts
- LEW (Collection) = Snake River Trap at Lewiston : Collection Counts
- LGR (Index) = Lower Granite Dam Bypass Collection System : Passage Index Counts  
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:

6/5/09 7:51 AM

		05/22/09 TO 06/05/09						
		Species						
Site	Data	CH0	CH1	CO	ST	SO	Grand Total	
<b>LGR</b>	Sum of NumberCollected	205,392	78,598	16,008	259,525	8,416	567,939	
	Sum of NumberBarged	189,505	75,751	15,807	242,159	8,152	531,374	
	Sum of NumberBypassed	0	1,000	0	6,153	0	7,153	
	Sum of Numbertrucked	0	0	0	0	0	0	
	Sum of SampleMorts	36	11	0	3	2	52	
	Sum of FacilityMorts	2,013	614	101	119	62	2,909	
	Sum of ResearchMorts	0	222	0	6	0	228	
	Sum of TotalProjectMorts	2,049	847	101	128	64	3,189	
<b>LGS</b>	Sum of NumberCollected	333,985	298,768	35,473	450,819	16,011	1,135,056	
	Sum of NumberBarged	265,973	232,936	30,972	372,486	13,583	915,950	
	Sum of NumberBypassed	10	0	0	0	0	10	
	Sum of Numbertrucked	0	0	0	0	0	0	
	Sum of SampleMorts	18	8	0	1	0	27	
	Sum of FacilityMorts	687	1,257	1	144	29	2,118	
	Sum of ResearchMorts	0	0	0	0	0	0	
	Sum of TotalProjectMorts	705	1,265	1	145	29	2,145	
<b>LMN</b>	Sum of NumberCollected	85,164	113,651	5,800	188,685	9,800	403,100	
	Sum of NumberBarged	64,866	112,214	5,498	180,244	9,446	372,268	
	Sum of NumberBypassed	14	61	0	1,563	0	1,638	
	Sum of Numbertrucked	0	0	0	0	0	0	
	Sum of SampleMorts	0	3	0	1	0	4	
	Sum of FacilityMorts	46	125	1	86	4	262	
	Sum of ResearchMorts	0	0	0	0	0	0	
	Sum of TotalProjectMorts	46	128	1	87	4	266	
<b>MCN</b>	Sum of NumberCollected	13,110	184,658	32,165	40,935	42,296	313,164	
	Sum of NumberBarged	0	0	0	0	0	0	
	Sum of NumberBypassed	13,092	184,299	32,149	40,919	42,278	312,737	
	Sum of Numbertrucked	0	0	0	0	0	0	
	Sum of SampleMorts	5	22	1	1	0	29	
	Sum of FacilityMorts	13	334	15	15	17	394	
	Sum of ResearchMorts	0	3	0	0	1	4	
	Sum of TotalProjectMorts	18	359	16	16	18	427	
<b>Total Sum of NumberCollected</b>		<b>637,651</b>	<b>675,675</b>	<b>89,446</b>	<b>939,964</b>	<b>76,523</b>	<b>2,419,259</b>	
<b>Total Sum of NumberBarged</b>		<b>520,344</b>	<b>420,901</b>	<b>52,277</b>	<b>794,889</b>	<b>31,181</b>	<b>1,819,592</b>	
<b>Total Sum of NumberBypassed</b>		<b>13,116</b>	<b>185,360</b>	<b>32,149</b>	<b>48,635</b>	<b>42,278</b>	<b>321,538</b>	
<b>Total Sum of Numbertrucked</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	
<b>Total Sum of SampleMorts</b>		<b>59</b>	<b>44</b>	<b>1</b>	<b>6</b>	<b>2</b>	<b>112</b>	
<b>Total Sum of FacilityMorts</b>		<b>2,759</b>	<b>2,330</b>	<b>118</b>	<b>364</b>	<b>112</b>	<b>5,683</b>	
<b>Total Sum of ResearchMorts</b>		<b>0</b>	<b>225</b>	<b>0</b>	<b>6</b>	<b>1</b>	<b>232</b>	
<b>Total Sum of TotalProjectMorts</b>		<b>2,818</b>	<b>2,599</b>	<b>119</b>	<b>376</b>	<b>115</b>	<b>6,027</b>	

### YTD Transportation Summary

Source: Fish Passage Center

Updated:

6/5/09 7:51 AM

TO: 06/05/09

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
<b>LGR</b>	Sum of NumberCollected	234,282	2,341,462	53,858	32,226	3,291,925	5,953,753
	Sum of NumberBarged	203,278	1,488,768	51,694	24,766	1,694,388	3,462,894
	Sum of NumberBypassed	15,038	847,954	1,948	7,068	1,586,086	2,458,094
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	48	115	1	20	28	212
	Sum of FacilityMorts	2,080	2,721	115	172	323	5,411
	Sum of ResearchMorts	0	1,034	0	0	15	1,049
	Sum of TotalProjectMorts	2,128	3,870	116	192	366	6,672
<b>LGS</b>	Sum of NumberCollected	346,329	1,712,715	50,498	32,449	2,423,805	4,565,796
	Sum of NumberBarged	273,871	894,627	43,171	24,182	885,283	2,121,134
	Sum of NumberBypassed	4,452	751,922	2,825	5,826	1,460,070	2,225,095
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	18	44	0	3	11	76
	Sum of FacilityMorts	691	1,551	2	39	253	2,536
	Sum of ResearchMorts	0	4	0	0	0	4
	Sum of TotalProjectMorts	709	1,599	2	42	264	2,616
<b>LMN</b>	Sum of NumberCollected	85,494	316,852	10,008	15,089	477,676	905,119
	Sum of NumberBarged	65,196	306,591	9,695	14,613	460,513	856,608
	Sum of NumberBypassed	14	8,779	9	114	10,143	19,059
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	0	14	0	2	4	20
	Sum of FacilityMorts	46	233	3	6	211	499
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	46	247	3	8	215	519
<b>MCN</b>	Sum of NumberCollected	14,885	1,283,162	58,932	101,433	460,790	1,919,202
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	14,863	1,281,695	58,884	101,382	460,636	1,917,460
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	6	120	1	1	11	139
	Sum of FacilityMorts	15	1,324	47	49	140	1,575
	Sum of ResearchMorts	1	23	0	1	3	28
	Sum of TotalProjectMorts	22	1,467	48	51	154	1,742
Total Sum of NumberCollected		680,990	5,654,191	173,296	181,197	6,654,196	13,343,870
Total Sum of NumberBarged		542,345	2,689,986	104,560	63,561	3,040,184	6,440,636
Total Sum of NumberBypassed		34,367	2,890,350	63,666	114,390	3,516,935	6,619,708
Total Sum of NumberTrucked		0	0	0	0	0	0
Total Sum of SampleMorts		72	293	2	26	54	447
Total Sum of FacilityMorts		2,832	5,829	167	266	927	10,021
Total Sum of ResearchMorts		1	1,061	0	1	18	1,081
Total Sum of TotalProjectMorts		2,905	7,183	169	293	999	11,549

Cumulative Adult Passage at Mainstem Dams Through: 06/04

DAM	EndDate	Spring Chinook						Summer Chinook						Fall Chinook					
		2009		2008		10-Yr Avg.		2009		2008		10-Yr Avg.		2009		2008		10-Yr Avg.	
		Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack
BON	06/03	114525	66631	125543	17554	160243	11507	5959	2656	3380	603	3622	436	0	0	0	0	0	0
TDA	06/03	93908	53646	95438	15801	113780	9032	0	0	0	0	0	0	0	0	0	0	0	0
JDA	06/03	74191	48638	79293	14515	93269	7355	0	0	0	0	0	0	0	0	0	0	0	0
MCN	06/04	65173	41310	64113	11286	83675	6956	0	0	0	0	0	0	0	0	0	0	0	0
IHR	06/04	47599	25465	47172	6775	54676	4104	0	0	0	0	0	0	0	0	0	0	0	0
LMN	06/04	56029	16306	46327	5682	51286	3589	0	0	0	0	0	0	0	0	0	0	0	0
LGS	06/04	39049	20034	41235	5816	47073	3520	0	0	0	0	0	0	0	0	0	0	0	0
LGR	06/04	35753	24401	37337	7636	45896	3934	0	0	0	0	0	0	0	0	0	0	0	0
PRD	06/01	10403	2469	10243	478	16471	493	0	0	0	0	0	0	0	0	0	0	0	0
RIS	06/02	9002	4594	9193	681	12852	778	0	0	0	0	0	0	0	0	0	0	0	0
RRH	06/02	4308	644	2965	210	4849	284	0	0	0	0	0	0	0	0	0	0	0	0
WEL	06/03	2173	1168	1663	184	2647	146	0	0	0	0	0	0	0	0	0	0	0	0
WFA	05/28	14770	1060	5120	52	-	-	0	0	0	0	0	-	-	0	0	0	0	-

DAM	Coho						Sockeye			Steelhead			
	2009		2008		10-Yr Avg.		2009	2008	10-Yr Avg.	2009	2008	10-Yr Avg.	Wild 2009
	Adult	Jack	Adult	Jack	Adult	Jack							
BON	0	0	0	0	0	0	305	171	160	5027	4100	4611	1156
TDA	0	0	0	0	0	0	124	20	66	1465	1509	1417	517
JDA	0	0	0	0	0	0	52	5	43	3298	3433	3108	1738
MCN	0	0	0	0	0	0	17	8	14	2505	2478	1936	1106
IHR	0	0	0	0	0	0	1	0	0	3098	3190	2063	1072
LMN	0	0	0	0	0	0	2	0	0	4751	4037	2186	2244
LGS	0	0	0	0	0	0	0	0	0	5388	2622	2250	2193
LGR	0	0	0	0	0	0	0	0	0	10785	7783	7767	3383
PRD	0	0	0	0	0	0	0	0	12	58	130	21	0
RIS	0	0	0	0	0	0	0	1	1	100	277	62	50
RRH	0	0	0	0	0	0	0	1	0	421	504	172	201
WEL	0	0	0	0	0	0	0	0	0	74	157	40	52
WFA	0	0	0	0	-	-	0	0	-	8070	10257	-	-

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: 05/21/09

BON counts from January 1, 2009 to March 14, 2009 (our traditional counts begin March 15):

Year	Chinook Adult	Chinook Jack	Steelhead	Wild Steelhead
2009	19	-1	321	109
2008	42	0	568	273