



## Fish Passage Center

# Weekly Report #09 - 12

May 29, 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 91% of average, for Snake River Basins the average snowpack is 67% of average, and for lower Columbia Basins between McNary and Bonneville Dam average snowpack is 187% of average.

Table 2 displays the May Final and May Mid-Month runoff volume forecasts for multiple reservoirs. Water Supply Forecasts have generally held steady between the May Final and May Mid-Month forecasts. The current forecast at The Dalles between January and July is 92000 Kaf (86% of average).

**Table 2. May Final and May Mid-Month Runoff Volume Forecasts for various reservoirs within the Columbia and Snake River Basins.**

Location	May Final		May Mid-Month	
	% Average (1971- 2000)	Probable Runoff Volume (Kaf)	% Average (1971- 2000)	Probable Runoff Volume (Kaf)
The Dalles Jan-July)	85	91100	86	92000
Grand Coulee (Jan-July)	87	55000	87	54900
Libby Res. Inflow, MT (Apr-Aug)	84	5270	84	5220
Hungry Horse Res. Inflow, MT (Jan-July)	92	2050	93	2070
Lower Granite Res. Inflow (Apr- July)	97	20900	97	21000
Brownlee Res. Inflow (Apr-July)	79	5000	79	4990
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. Flows at Lower Granite Dam and McNary Dam have increased over the last week. At Lower Granite flows from April 3-May 28 have averaged 101.4 Kcfs and 152.6 Kcfs over the last week, flows at Priest Rapids from April 10-May 28 averaged 129.4 Kcfs and 149.2 Kcfs over the last week, and flows at McNary have averaged 253.5 Kcfs between April 10-May 28 and 318.9 Kcfs over the last week.

Grand Coulee Reservoir is at 1267.8 feet (5-28-09) and has refilled 6.3 feet over the last week. Outflows at Grand Coulee have ranged between 110.0 and 146.1 Kcfs over the last week.

The Libby Reservoir is currently at elevation 2412.5 feet (5-28-09) and has refilled 4.4 feet last week. Outflows at Libby have been 13.4 Kcfs over the last week.

Hungry Horse is currently at an elevation of 3531.9 ft (5-28-09) and has refilled 7.5 feet last week. Outflows at Hungry Horse have been 6.1 Kcfs last week.

Dworshak is currently at an elevation of 1573.3 feet (5-28-09) and has refilled 16.7 feet last week. Outflows at Dworshak were increased from 1.6 Kcfs to 4.4 on the 27<sup>th</sup>.

The Brownlee Reservoir was at an elevation of 2074.2 feet on May 28<sup>th</sup>, 2009, refilling 1.4 feet last week. Outflows at Brownlee Dam have been 19.9 to 24.4 Kcfs over the last week.

**Spill:**

No spill occurred at Dworshak Dam over the past week. 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.

<b>Project</b>	<b>Day/Night Spill</b>
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 increased significantly 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 has not met the 30% average spill since May 18<sup>th</sup> due to the lowering of 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 spill approaches 50% of total 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.

<b>Project</b>	<b>Day/Night Spill</b>
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 21<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 most of the forebay monitors and tailrace monitors at Lower Granite, Lower Monumental and Ice Harbor dams.

In the Lower Columbia TDG exceeded the waiver limits at the Bonneville Dam forebay and tailrace on several days. The Camas/Washougal monitor also read higher than 115%, 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.

#### **Adult Fish Passage:**

Daily adult spring Chinook counts at Bonneville Dam ranged from 1432 to 2172 adult salmon per day. Between March 15<sup>th</sup> and May 27<sup>th</sup>, 108754 spring Chinook have been counted at Bonneville Dam. In 2008, 120620 adult spring Chinook were counted at Bonneville Dam for the same time period. The 2009 adult spring Chinook count at Bonneville Dam is 90.1% of the 2008 count. The Bonneville spring Chinook adult count is only about 69.9% of the 10 year average of 155524. The 2009 Bonneville Dam spring Chinook jack count of 64340 is about 3.88 times greater than the 2008 count of 16580 and 5.92 times greater than the 10 year average of 10873. The 2009 spring Chinook migration arrived later than both the 2008 and 10 year average migration. The 2009 adult summer Chinook count begins June 1<sup>st</sup> at Bonneville Dam.

At Willamette Falls Dam 13702 adult spring Chinook have been counted so far this year. The 2009 adult spring Chinook count at Willamette Falls Dam is 2.83 times greater than the 2008 count of 4839. At The Dalles Dam the 2009 adult spring Chinook count of 82692 is about 94.2% of the 2008 count and 77.3% of the 10 year average. The 2009 spring jack count at The Dalles Dam of 49929 is 3.47 times greater than the 2009 count and 6.15 times greater than the 10 year average. At McNary Dam 56280 adult spring Chinook have been counted. The 2009 adult spring Chinook count at McNary Dam is 95.6% of the 2008 count and only about 71.9% of the 10 year average. The 2009 McNary Dam spring Chinook jack count of 37172 is 3.87 times greater than the 2008 count of 9609 and 6.12 times greater than the 10 year average count of 6076. The 2009 adult spring Chinook count at Lower Granite Dam of 27770 is 1.05 times greater than the 2008 count and 68.7% of the 10 year average. The 2009 Lower Granite spring Chinook jack count of 18518 is 4.38 times greater than the 2008 count and 6.36 times greater

than the 10 year average.

The Bonneville Dam 2009 steelhead count of 4125 is about 1.20 times greater than the 2008 count of 3423. The 2009 steelhead count is about 1.09 times greater than of the 10-year average of 3766. At upriver sites, adult steelhead continue to move through the hydro system to reach their tributaries and spawning sites. The majority of these fish over-wintered in pools and will complete their trip to their spawning grounds in March through early May. Daily adult steelhead counts at Lower Granite Dam ranged from 1 to 5 adults per day last week. This year's Lower Granite steelhead count of 10775 is 1.39 times greater than the 2008 count of 7755 and 1.39 times greater than the 10 year average of 7751. The 2009 wild steelhead count as of May 27<sup>th</sup> was 3376. At Rock Island Dam, as of May 27<sup>th</sup>, 96 adult steelhead have been counted and at Rocky Reach Dam, 406 adult steelhead have been counted so far this season. At Willamette Falls Dam, the 2009 count for steelhead was 7699, as of May 26<sup>th</sup>. This year's steelhead count is only about 78.6% of the 2008 count of 9793 at Willamette Falls Dam for the same date range.

#### **Smolt Monitoring:**

Sampling at the Salmon River and Lewiston traps has ended for the season. High flows and debris forced the traps out a few days ahead of their scheduled end date. Collection of yearling Chinook was increasing rapidly at the Lewiston Trap up to the end of sampling. At the Imnaha Trap very few yearling Chinook are being captured while relatively high numbers of steelhead were collected the past week of sampling. That pattern is consistent with other recent years of sampling; when steelhead pass later into the season than Chinook in that river. While at the Grande Ronde collection of spring migrants remains relatively high for this time of year.

At Lower Granite Dam steelhead predominated in passage numbers but subyearling Chinook indices were increasing and likely will pass those of steelhead in the next week as acclimation releases begin passing the project. PIT-tag detections at Lower Granite confirm that the acclimation released subyearling Chinook were arriving at the site over the past few days. And releases at Hells Canyon and North Lapwai Valley Acclimation Ponds were also detected. Sockeye passage declined slightly over the past week as the the Salmon River migrants continue to pass through the Snake River.

At Rock Island dam the daily passage indices for coho and steelhead smolts predominate in the sample. Coho indices have remained above 1,000 per day over the past few weeks on average, while steelhead indices averaged just over 700 per day this past week. Sockeye indices were also relatively high this week with the average index for those species at 130 per day compared to 120 per day last week.

The predominant salmonids in the sample at McNary Dam the past week were yearling Chinook, but the numbers declined with the passage index averaging 91,000 per day compared to 220,000 last week. Steelhead indices averaged 20,000. Coho and Sockeye indices were up or steady with the index for coho averaging over 12,000 per day and the sockeye index averaging over 14,000 per day. Very few subyearling Chinook have passed the project over the last week.

At Bonneville Dam yearling Chinook passage predominated over the past week with index averaging 54,000 per day. Steelhead, coho and sockeye indices increased over the past week. Subyearling numbers were low relatively to earlier peaks associated with Spring Creek NFH releases that passed the project.

#### **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. Beginning this week, approximately 1.4 million subyearling fall Chinook were scheduled for release from acclimation facilities throughout this zone. Approximately 500,000 of these subyearlings were scheduled for release from Big Canyon Creek Acclimation Pond into the Clearwater River. The remaining 900,000 were scheduled for release into the Snake River, from Pittsburg Landing Acclimation Pond (44%) and Captain Johns Rapids Acclimation Pond (56%). In all, about 57% of the subyearlings being released from these three acclimation facilities are unmarked. Releases of subyearling fall Chinook surrogates to the Snake River that began on May 11<sup>th</sup> were scheduled to end this week. In all, about 202,000 subyearling fall Chinook surrogates were scheduled for release into the Snake River at Couse Creek. All of these subyearling fall Chinook surrogates are unclipped. However, they are almost all PIT-tagged. There were no other releases scheduled for this week in this zone.

A release of about 200,000 Lyons Ferry subyearling fall Chinook to Couse Creek (Snake River) that began several weeks ago is scheduled to end on June 1<sup>st</sup>. These juveniles are different

from the surrogates mentioned above and are 100% clipped. In addition, several releases of subyearling fall Chinook to the Snake River are scheduled to begin over the next two weeks. First, approximately 200,000 subyearlings are scheduled for direct release from Lyons Ferry Hatchery, beginning on or around June 1<sup>st</sup>. Approximately 1.7 million subyearling fall Chinook reared at the Nez Perce Tribal Hatchery are scheduled for release over the next two weeks. Of these, about 41.2% are unmarked. Approximately 800,000 of these subyearlings will be released directly from the hatchery. About 500,000 will be taken to the North Lapwai Valley and released. The remaining 400,000 will be split evenly between two acclimation ponds on the Clearwater (Lukes Gulch) and Selway (Cedar Flats) rivers. 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. No releases of anadromous salmonid juveniles were scheduled to begin this week. While no new releases are scheduled over the next two weeks, several volitional releases of anadromous salmonids that began weeks ago are scheduled to end over the next two weeks. A release of 453,000 subyearling summer Chinook from Wells Hatchery that was scheduled to begin on May 15<sup>th</sup> is scheduled to end within the next couple of days. In addition, a release of 140,000 unmarked yearling spring Chinook to Lake Wenatchee is scheduled to end by the end of this month. Finally, several releases of summer steelhead to this zone are scheduled to end by May 31<sup>st</sup>. These releases total 460,000 summer steelhead juveniles, 72% of which were being released into the Methow River and 28% of which were released to the Okanogan River. Thirty percent of the Methow River release is marked with yellow Elastomer tags.

**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, nor are any releases scheduled to begin over the next two weeks.

**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
05/15/2009	119.3	0.0	124.8	0.0	137.8	8.9	133.4	0.0	138.4	25.5	135.5	19.2	127.5	22.1
05/16/2009	100.9	0.0	99.0	0.0	110.8	7.6	108.4	0.0	112.6	11.0	129.0	18.6	125.3	22.7
05/17/2009	114.1	0.0	111.9	0.0	116.6	7.7	112.1	0.0	118.9	11.4	113.7	19.1	111.3	20.6
05/18/2009	105.8	0.0	108.8	0.0	120.7	8.3	118.2	0.0	126.1	13.5	131.1	19.6	128.6	18.6
05/19/2009	97.9	0.0	96.8	0.0	121.1	8.7	120.6	0.0	130.8	14.0	132.2	20.4	121.1	22.6
05/20/2009	105.8	0.0	112.4	0.0	116.3	8.0	109.6	0.0	118.6	12.3	131.1	20.5	127.9	23.5
05/21/2009	101.5	0.0	101.2	0.0	117.9	8.8	119.5	0.0	127.9	12.3	137.6	19.5	133.3	22.7
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

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

Date	Dworshak		Brownlee Canyon		Lower Granite		Little Goose		Lower Monumental		Ice Harbor	
	Flow	Spill	Inflow	Outflow	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill
05/15/2009	6.6	0.1	26.1	23.4	95.1	20.5	91.7	27.4	93.5	32.8	93.4	27.9
05/16/2009	5.7	0.0	24.1	23.7	96.2	20.6	93.8	28.1	97.1	27.5	99.2	51.8
05/17/2009	4.6	0.0	22.9	21.9	99.3	20.6	95.4	28.7	98.0	26.3	100.8	64.3
05/18/2009	4.6	0.0	23.2	23.1	108.6	20.6	104.2	31.1	106.7	25.6	108.1	66.1
05/19/2009	1.7	0.0	23.9	19.2	139.8	31.4	132.6	35.8	139.2	28.9	140.1	70.7
05/20/2009	1.6	0.0	27.2	22.6	162.2	59.1	150.0	40.5	156.0	39.8	160.5	81.4
05/21/2009	1.7	0.0	27.0	24.7	161.1	51.7	152.1	42.1	162.4	46.0	167.1	84.2
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	---	---	---	---	157.3	54.3	145.9	36.1	150.8	36.7	154.6	74.5

**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
05/15/2009	239.7	96.0	234.7	89.7	227.9	91.0	252.5	99.7	51.9	89.5
05/16/2009	250.8	100.4	245.4	97.6	237.6	92.8	253.4	96.3	57.0	88.7
05/17/2009	232.3	92.9	238.3	76.1	230.3	85.8	258.7	92.2	68.9	86.2
05/18/2009	258.9	103.7	259.8	78.0	253.1	81.3	255.9	84.9	61.5	98.1
05/19/2009	279.4	112.0	268.2	80.4	262.8	83.2	282.9	91.7	65.2	114.2
05/20/2009	297.3	128.0	304.6	91.6	289.2	94.0	307.9	119.4	65.6	110.9
05/21/2009	313.3	139.8	307.5	102.4	302.3	116.8	320.2	131.3	69.0	107.8
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

## 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>											
	05/18/09	Chinook + Steelhead	99	0	0	0.00%	0.00%	0	0	0	0
	05/26/09	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
<b>Little Goose Dam</b>											
	05/18/09	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	05/25/09	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
<b>Lower Monumental Dam</b>											
	05/19/09	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	05/26/09	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
<b>McNary Dam</b>											
	05/18/09	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	05/22/09	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	05/24/09	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
<b>Bonneville Dam</b>											
	05/19/09	Chinook + Steelhead	108	3	2	1.85%	0.00%	2	0	0	0
	05/23/09	Chinook + Steelhead	108	1	1	0.92%	0.00%	1	0	0	0
	05/26/09	Chinook + Steelhead	108	1	1	0.92%	0.00%	1	0	0	0
<b>Rock Island Dam</b>											
	05/19/09	Chinook + Steelhead	100	2	2	2.00%	0.00%	2	0	0	0
	05/21/09	Chinook + Steelhead	100	1	1	1.00%	0.00%	1	0	0	0
	05/26/09	Chinook + Steelhead	100	1	1	1.00%	0.00%	1	0	0	0

### Hatchery Releases Last Two Weeks

#### Hatchery Release Summary

From: 5/15/2009 to 05/28/09

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</b>					<b>202,369</b>				
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
<b>Nez Perce Tribe Total</b>					<b>1,400,000</b>				
Oregon Dept. of Fish and Wildlife	Umatilla Hatchery	CH0	FA	2009	600,000	05-16-09	05-16-09	Umatilla River	Umatilla River
<b>Oregon Dept. of Fish and Wildlife</b>					<b>600,000</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	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</b>					<b>1,253,000</b>				
Yakama Tribe	Prosser Acclim. Pond	CH0	SU	2009	200,000	05-16-09	05-16-09	Stiles Pond	Yakima River
<b>Yakama Tribe Total</b>					<b>200,000</b>				
<b>Grand Total</b>					<b>3,655,369</b>				

### Hatchery Releases Next Two Weeks

Hatchery Release Summary									
From:	5/29/2009		to		6/11/2009				
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</b>					<b>202,369</b>				
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	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>1,700,000</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>3,355,369</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>	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		
5/15	98	99	99	24	114	118	119	24	108	108	108	24	107	108	109	24	107	107	108	24
5/16	98	99	99	24	114	117	119	18	108	108	109	24	108	109	109	18	107	108	108	24
5/17	99	99	99	24	114	119	120	23	110	111	111	24	109	110	110	23	108	108	109	24
5/18	99	99	100	24	115	119	120	21	110	110	111	24	109	110	111	21	109	110	110	24
5/19	99	99	100	24	116	119	119	23	110	111	111	24	108	110	112	23	109	109	109	24
5/20	98	98	99	23	117	118	118	18	108	108	108	23	105	105	106	18	108	108	108	22
5/21	98	98	98	24	114	118	118	23	108	109	110	24	105	106	106	23	107	108	108	24
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

### 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>	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		
5/15	105	106	106	24	106	107	107	24	108	108	109	24	107	108	108	24	106	106	107	24
5/16	105	107	108	24	107	108	108	24	109	110	110	24	108	109	109	24	106	107	107	24
5/17	107	107	108	24	108	109	109	24	110	110	111	24	109	109	110	24	107	107	108	24
5/18	108	109	109	24	109	110	110	24	111	112	112	24	111	111	112	24	108	109	109	24
5/19	107	108	109	23	108	108	109	24	110	110	111	24	110	110	111	24	108	108	108	24
5/20	107	107	108	22	107	107	107	22	108	109	109	22	108	108	109	22	106	107	107	22
5/21	107	108	108	24	107	108	108	24	109	110	110	24	108	108	109	24	106	106	107	24
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

### 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>	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		
5/15	107	108	108	24	112	112	114	24	110	112	113	24	111	112	113	24	108	109	111	24
5/16	108	109	109	24	111	112	114	24	111	112	112	24	112	112	113	24	111	112	113	24
5/17	109	110	110	24	111	112	113	24	114	115	116	24	113	114	115	24	113	114	117	24
5/18	110	111	111	24	112	113	114	24	114	115	116	24	114	115	116	24	113	114	116	24
5/19	109	110	111	24	112	113	114	24	111	111	112	24	113	113	114	24	111	112	113	24
5/20	108	108	108	22	110	111	112	22	109	109	110	24	111	112	113	24	110	110	110	24
5/21	107	108	108	24	110	110	111	24	111	113	115	24	112	112	112	24	110	111	112	24
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	---	---	---	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	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			24 h	12 h	
	Avg	Avg	High		Avg	Avg	High		Avg	Avg	High		Avg	Avg	High		Avg	Avg	High		Avg	Avg	High
5/15	111	112	113	24	108	109	109	24	100	101	104	24	102	103	103	24	102	103	104	24			
5/16	113	114	114	24	109	110	111	24	101	101	103	24	102	103	104	24	103	104	104	24			
5/17	114	115	115	24	110	111	112	24	104	104	105	24	103	104	105	24	103	104	105	24			
5/18	115	115	116	24	112	113	114	24	104	105	106	24	103	105	105	24	104	105	105	24			
5/19	113	114	114	24	109	109	112	24	104	104	105	24	103	104	104	24	104	104	105	24			
5/20	112	112	112	24	108	109	110	23	103	104	105	23	104	105	106	23	106	107	108	23			
5/21	113	113	113	24	109	110	110	24	104	105	106	24	104	105	105	24	107	108	109	24			
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	---	---	---	0	111	113	114	24	101	101	102	23	104	105	106	23	107	108	109	24			

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

Date	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			24 h	12 h	
	Avg	Avg	High		Avg	Avg	High		Avg	Avg	High		Avg	Avg	High		Avg	Avg	High		Avg	Avg	High
5/15	102	103	105	24	102	103	103	24	109	109	110	24	106	107	107	24	113	113	113	24			
5/16	102	104	105	24	103	103	103	24	109	109	110	24	107	107	108	24	113	113	113	24			
5/17	103	104	105	24	104	104	105	24	109	110	110	24	107	108	109	24	113	113	114	24			
5/18	103	104	105	24	105	106	106	24	110	110	111	24	110	111	111	24	114	115	115	24			
5/19	102	103	103	24	105	105	106	24	114	116	117	24	109	109	110	24	114	115	115	24			
5/20	103	104	104	23	102	103	104	23	122	123	125	23	106	106	107	23	115	116	118	23			
5/21	103	104	105	24	105	106	107	24	120	121	122	24	110	113	116	24	116	117	118	24			
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			

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

Date	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			24 h	12 h	
	Avg	Avg	High		Avg	Avg	High		Avg	Avg	High		Avg	Avg	High		Avg	Avg	High		Avg	Avg	High
5/15	110	110	110	24	115	115	115	24	111	111	111	24	115	115	116	24	---	---	---	0			
5/16	111	112	113	24	118	119	119	24	112	113	113	24	116	117	118	24	---	---	---	0			
5/17	114	114	115	24	118	119	121	24	114	114	116	24	117	118	119	24	---	---	---	0			
5/18	115	115	116	24	119	120	121	24	117	117	118	24	118	119	120	24	---	---	---	0			
5/19	114	114	115	24	118	118	119	24	115	116	117	24	119	120	121	24	---	---	---	0			
5/20	112	112	112	13	119	119	121	13	111	112	113	23	120	121	121	23	---	---	---	0			
5/21	112	113	113	24	120	120	121	24	113	114	114	24	121	121	122	24	---	---	---	0			
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			

## 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>24 h</u>		<u>12 h</u>		#	<u>24h</u>		<u>12h</u>		#	<u>24h</u>		<u>12h</u>		#
	Avg	Avg	High	hr		Avg	Avg	High	hr		Avg	Avg	High	hr		Avg	AVG	High	hr	
5/15	108	109	110	24	115	116	117	24	106	107	107	24	115	117	117	24	110	111	112	24
5/16	110	111	112	24	116	116	117	24	107	107	108	24	116	116	117	24	113	113	114	24
5/17	112	113	113	24	115	117	117	24	108	109	110	24	114	115	115	24	114	114	114	24
5/18	114	115	116	24	116	117	118	24	110	111	111	24	115	116	117	24	112	113	113	24
5/19	113	114	116	24	116	117	117	24	110	110	111	24	114	115	116	24	110	110	112	24
5/20	110	110	111	23	117	118	118	23	109	110	110	23	114	115	116	23	111	111	112	23
5/21	112	113	114	24	118	119	119	24	110	111	111	24	115	116	116	24	113	113	115	24
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

### 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>24 h</u>		<u>12 h</u>		#	<u>24h</u>		<u>12h</u>		#	<u>24h</u>		<u>12h</u>		#
	Avg	Avg	High	hr		Avg	Avg	High	hr		Avg	Avg	High	hr		Avg	AVG	High	hr	
5/15	115	116	116	24	113	114	114	24	---	---	---	0	114	116	117	24	118	119	119	24
5/16	117	118	118	24	114	115	116	24	---	---	---	0	115	116	117	24	118	119	119	24
5/17	117	117	118	24	117	118	118	24	---	---	---	0	116	118	119	24	118	119	119	24
5/18	116	116	117	24	116	117	117	24	---	---	---	0	117	118	119	24	117	117	119	24
5/19	114	114	115	24	112	113	114	24	---	---	---	0	113	113	115	24	117	119	120	24
5/20	114	115	116	23	110	111	111	24	---	---	---	0	112	114	114	24	120	120	121	24
5/21	117	118	120	24	113	114	115	24	---	---	---	0	114	115	116	24	122	123	123	24
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

Two-Week Summary of Passage Indices

COMBINED YEARLING CHINOOK											
Date	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)
05/15/2009	32	40	337	450	160,216	75,589	13,869	399	220,448	28,151	38,278
05/16/2009 *	19	59	344	499	108,574	49,689	11,817	388	---	16,643	33,599
05/17/2009	15	59	315	552	55,429	39,703	19,995	560	193,263	21,133	46,560
05/18/2009 *	22	30	549	580	56,170	58,329	13,739	508	---	24,186	40,507
05/19/2009 *	---	---	488	1,704	88,481	44,410	17,782	279	243,844	31,062	63,089
05/20/2009 *	---	---	323	1,308	161,611	51,782	49,187	394	---	31,506	73,362
05/21/2009 *	---	---	145	---	118,680	92,241	34,352	261	223,013	37,638	63,158
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 *	---	---	74	---	4,435	12,994	7,062	245	---	25,970	36,198
05/29/2009	---	---	---	---	---	---	---	---	---	---	---
<b>Total:</b>	<b>88</b>	<b>266</b>	<b>3,053</b>	<b>5,093</b>	<b>844,840</b>	<b>788,337</b>	<b>289,064</b>	<b>3,897</b>	<b>1,156,336</b>	<b>415,257</b>	<b>734,885</b>
<b># Days:</b>	<b>4</b>	<b>10</b>	<b>14</b>	<b>6</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>22</b>	<b>27</b>	<b>218</b>	<b>849</b>	<b>76,804</b>	<b>56,310</b>	<b>20,647</b>	<b>278</b>	<b>165,191</b>	<b>29,661</b>	<b>52,492</b>
<b>YTD</b>	<b>37,667</b>	<b>44,391</b>	<b>20,207</b>	<b>29,713</b>	<b>3,047,006</b>	<b>2,398,411</b>	<b>421,966</b>	<b>8,592</b>	<b>2,148,301</b>	<b>874,136</b>	<b>1,527,598</b>

COMBINED SUBYEARLING CHINOOK											
Date	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)
05/15/2009	0	0	0	10	255	0	0	1	170	0	3,420
05/16/2009 *	0	1	0	7	0	0	0	2	---	0	5,147
05/17/2009	0	0	0	24	511	0	138	4	169	0	3,713
05/18/2009 *	0	0	0	25	253	286	0	0	---	0	2,077
05/19/2009 *	---	---	1	142	1,214	143	0	8	169	0	2,310
05/20/2009 *	---	---	0	60	4,947	2,316	136	17	---	72	2,943
05/21/2009 *	---	---	0	---	6,045	7,533	137	4	409	72	2,513
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	---	16,209	27,767	3,664	7	---	623	3,230
05/29/2009	---	---	---	---	---	---	---	---	---	---	---
<b>Total:</b>	<b>0</b>	<b>6</b>	<b>1</b>	<b>268</b>	<b>69,710</b>	<b>103,938</b>	<b>6,510</b>	<b>90</b>	<b>6,332</b>	<b>2,364</b>	<b>50,417</b>
<b># Days:</b>	<b>4</b>	<b>10</b>	<b>14</b>	<b>6</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>45</b>	<b>6,337</b>	<b>7,424</b>	<b>465</b>	<b>6</b>	<b>905</b>	<b>169</b>	<b>3,601</b>
<b>YTD</b>	<b>0</b>	<b>13</b>	<b>15</b>	<b>545</b>	<b>95,483</b>	<b>110,881</b>	<b>6,559</b>	<b>361</b>	<b>8,432</b>	<b>3,025</b>	<b>1,985,138</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)	
05/15/2009	0	0	0	18	1,531	1,715	77	540	3,398	2,319	7,629	
05/16/2009 *	0	0	0	31	3,058	1,002	657	722	---	9,431	10,580	
05/17/2009	0	0	0	66	3,576	717	414	1,156	4,580	8,213	8,593	
05/18/2009 *	0	0	0	33	3,795	286	343	813	---	7,943	10,871	
05/19/2009 *	---	---	0	52	5,100	1,000	491	795	8,446	7,543	17,948	
05/20/2009 *	---	---	0	6	10,169	3,134	1,495	1,732	---	5,728	26,361	
05/21/2009 *	---	---	0	---	13,045	6,300	1,505	1,264	17,573	5,685	27,029	
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	---	3,364	3,438	466	1,537	---	7,999	11,768	
05/29/2009	---	---	---	---	---	---	---	---	---	---	---	
<b>Total:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>206</b>	<b>56,710</b>	<b>55,237</b>	<b>10,581</b>	<b>15,399</b>	<b>72,034</b>	<b>101,149</b>	<b>287,707</b>	
<b># Days:</b>	<b>4</b>	<b>10</b>	<b>14</b>	<b>6</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>34</b>	<b>5,155</b>	<b>3,946</b>	<b>756</b>	<b>1,100</b>	<b>10,291</b>	<b>7,225</b>	<b>20,551</b>	
<b>YTD</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>332</b>	<b>68,006</b>	<b>62,177</b>	<b>11,455</b>	<b>16,559</b>	<b>84,292</b>	<b>120,195</b>	<b>409,398</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)	
05/15/2009	35	959	173	119	70,668	34,865	25,976	798	25,640	23,513	28,544	
05/16/2009 *	31	1,749	129	92	57,600	39,513	26,042	706	---	18,901	15,298	
05/17/2009	11	1,541	104	42	33,973	36,837	23,994	556	31,638	16,797	10,650	
05/18/2009 *	29	2,123	178	69	55,917	31,849	38,195	628	---	14,956	13,364	
05/19/2009 *	---	---	143	337	68,520	29,560	20,235	653	38,539	18,078	24,336	
05/20/2009 *	---	---	182	236	111,039	27,249	34,512	820	---	18,116	13,975	
05/21/2009 *	---	---	56	---	111,680	65,884	40,648	1,242	37,748	19,358	13,854	
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 *	---	---	34	---	23,244	20,898	10,593	467	---	11,739	11,944	
05/29/2009	---	---	---	---	---	---	---	---	---	---	---	
<b>Total:</b>	<b>106</b>	<b>7,398</b>	<b>1,344</b>	<b>895</b>	<b>748,476</b>	<b>753,434</b>	<b>400,000</b>	<b>10,852</b>	<b>192,907</b>	<b>251,796</b>	<b>251,329</b>	
<b># Days:</b>	<b>4</b>	<b>10</b>	<b>14</b>	<b>6</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>27</b>	<b>740</b>	<b>96</b>	<b>149</b>	<b>68,043</b>	<b>53,817</b>	<b>28,571</b>	<b>775</b>	<b>27,558</b>	<b>17,985</b>	<b>17,952</b>	
<b>YTD</b>	<b>1,833</b>	<b>23,061</b>	<b>9,611</b>	<b>8,297</b>	<b>4,163,699</b>	<b>3,319,867</b>	<b>616,918</b>	<b>15,310</b>	<b>774,643</b>	<b>856,824</b>	<b>628,621</b>	

## Two-Week Summary of Passage Indices

Date	COMBINED SOCKEYE										
	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)
05/15/2009	34	0	0	50	510	286	153	77	9,327	1,359	789
05/16/2009 *	10	0	0	14	1,529	0	0	89	---	2,040	1,430
05/17/2009	2	0	0	8	1,533	573	0	174	15,228	3,231	696
05/18/2009 *	4	0	0	4	1,771	286	69	154	---	2,075	1,453
05/19/2009 *	---	---	0	7	1,943	860	491	117	19,429	3,661	1,834
05/20/2009 *	---	---	0	1	4,947	4,360	1,766	208	---	4,010	3,164
05/21/2009 *	---	---	0	---	5,727	3,698	3,695	52	14,320	4,318	2,581
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	---	1,529	1,852	466	180	---	3,947	3,556
05/29/2009	---	---	---	---	---	---	---	---	---	---	---
<b>Total:</b>	<b>50</b>	<b>0</b>	<b>0</b>	<b>84</b>	<b>27,519</b>	<b>27,788</b>	<b>15,613</b>	<b>1,809</b>	<b>102,399</b>	<b>46,958</b>	<b>41,611</b>
<b># Days:</b>	<b>4</b>	<b>10</b>	<b>14</b>	<b>6</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>13</b>	<b>0</b>	<b>0</b>	<b>14</b>	<b>2,502</b>	<b>1,985</b>	<b>1,115</b>	<b>129</b>	<b>14,628</b>	<b>3,354</b>	<b>2,972</b>
<b>YTD</b>	<b>170</b>	<b>0</b>	<b>0</b>	<b>177</b>	<b>41,504</b>	<b>40,864</b>	<b>16,779</b>	<b>2,665</b>	<b>144,898</b>	<b>70,403</b>	<b>48,852</b>

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

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

### Definitions for Smolt Index Counts

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

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

## Two Week Transportation Summary

Source: Fish Passage Center

Updated:

5/29/09 10:25 AM

**05/15/09 TO 05/29/09**

		Species					
Site	Data	CH0	CH1	CO	ST	SO	Grand Total
<b>LGR</b>	Sum of NumberCollected	46,492	630,066	40,408	542,956	19,416	1,279,338
	Sum of NumberBarged	44,976	605,997	40,303	534,854	19,294	1,245,424
	Sum of NumberBypassed	0	22,350	0	7,936	30	30,316
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of SampleMorts	19	34	1	8	3	65
	Sum of FacilityMorts	1,497	1,306	104	151	89	3,147
	Sum of ResearchMorts	0	379	0	7	0	386
	Sum of TotalProjectMorts	1,516	1,719	105	166	92	3,598
<b>LGS</b>	Sum of NumberCollected	76,511	573,768	41,001	555,645	20,523	1,267,448
	Sum of NumberBarged	71,691	509,197	36,999	491,413	18,496	1,127,796
	Sum of NumberBypassed	3	340	0	325	0	668
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of SampleMorts	2	11	0	5	0	18
	Sum of FacilityMorts	15	850	2	106	27	1,000
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	17	861	2	111	27	1,018
<b>LMN</b>	Sum of NumberCollected	4,850	215,384	7,900	297,516	11,700	537,350
	Sum of NumberBarged	4,742	214,760	7,898	295,238	11,696	534,334
	Sum of NumberBypassed	0	452	0	2,163	0	2,615
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of SampleMorts	0	1	0	1	0	2
	Sum of FacilityMorts	8	171	1	114	4	298
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	8	172	1	115	4	300
<b>MCN</b>	Sum of NumberCollected	3,431	665,840	40,510	110,634	58,092	878,507
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	3,428	664,956	40,489	110,591	58,059	877,523
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of SampleMorts	0	48	1	4	0	53
	Sum of FacilityMorts	3	835	20	39	32	929
	Sum of ResearchMorts	0	1	0	0	1	2
	Sum of TotalProjectMorts	3	884	21	43	33	984
Total Sum of NumberCollected		131,284	2,085,058	129,819	1,506,751	109,731	3,962,643
Total Sum of NumberBarged		121,409	1,329,954	85,200	1,321,505	49,486	2,907,554
Total Sum of NumberBypassed		3,431	688,098	40,489	121,015	58,089	911,122
Total Sum of Numbertrucked		0	0	0	0	0	0
Total Sum of SampleMorts		21	94	2	18	3	138
Total Sum of FacilityMorts		1,523	3,162	127	410	152	5,374
Total Sum of ResearchMorts		0	380	0	7	1	388
Total Sum of TotalProjectMorts		1,544	3,636	129	435	156	5,900

### YTD Transportation Summary

Source: Fish Passage Center

Updated:

5/29/09 10:25 AM

TO: 05/29/09

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
<b>LGR</b>	Sum of NumberCollected	66,182	2,329,261	49,058	30,226	3,196,526	5,671,253
	Sum of NumberBarged	49,596	1,477,919	46,997	22,973	1,612,879	3,210,364
	Sum of NumberBypassed	15,038	847,710	1,948	7,068	1,583,302	2,455,066
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	30	114	1	20	27	192
	Sum of FacilityMorts	1,518	2,700	112	165	305	4,800
	Sum of ResearchMorts	0	948	0	0	13	961
	Sum of TotalProjectMorts	1,548	3,762	113	185	345	5,953
<b>LGS</b>	Sum of NumberCollected	81,355	1,695,200	45,826	29,659	2,339,875	4,191,915
	Sum of NumberBarged	72,089	878,842	38,999	21,796	815,815	1,827,541
	Sum of NumberBypassed	4,445	751,922	2,825	5,826	1,460,070	2,225,088
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	2	42	0	3	11	58
	Sum of FacilityMorts	19	1,020	2	34	183	1,258
	Sum of ResearchMorts	0	4	0	0	0	4
	Sum of TotalProjectMorts	21	1,066	2	37	194	1,320
<b>LMN</b>	Sum of NumberCollected	4,880	301,135	8,458	12,439	434,907	761,819
	Sum of NumberBarged	4,772	292,162	8,445	12,313	425,306	742,998
	Sum of NumberBypassed	0	8,762	9	114	9,409	18,294
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	0	11	0	2	4	17
	Sum of FacilityMorts	8	213	3	6	174	404
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	8	224	3	8	178	421
<b>MCN</b>	Sum of NumberCollected	4,677	1,250,788	47,723	83,201	452,702	1,839,091
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	4,671	1,249,386	47,684	83,153	452,550	1,837,444
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	1	110	1	1	11	124
	Sum of FacilityMorts	4	1,271	38	46	138	1,497
	Sum of ResearchMorts	1	21	0	1	3	26
	Sum of TotalProjectMorts	6	1,402	39	48	152	1,647
Total Sum of NumberCollected		157,094	5,576,384	151,065	155,525	6,424,010	12,464,078
Total Sum of NumberBarged		126,457	2,648,923	94,441	57,082	2,854,000	5,780,903
Total Sum of NumberBypassed		24,154	2,857,780	52,466	96,161	3,505,331	6,535,892
Total Sum of NumberTrucked		0	0	0	0	0	0
Total Sum of SampleMorts		33	277	2	26	53	391
Total Sum of FacilityMorts		1,549	5,204	155	251	800	7,959
Total Sum of ResearchMorts		1	973	0	1	16	991
Total Sum of TotalProjectMorts		1,583	6,454	157	278	869	9,341



Cumulative Adult Passage at Mainstem Dams Through: 05/28

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	05/27	108754	64340	120620	16580	155524	10873	0	0	0	0	0	0	0	0	0	0	0	0
TDA	05/27	82692	49929	89472	14392	107026	8116	0	0	0	0	0	0	0	0	0	0	0	0
JDA	05/28	67116	45547	75518	13402	88777	6782	0	0	0	0	0	0	0	0	0	0	0	0
MCN	05/28	56280	37172	58860	9609	78252	6076	0	0	0	0	0	0	0	0	0	0	0	0
IHR	05/28	40219	22624	40352	4552	50478	3425	0	0	0	0	0	0	0	0	0	0	0	0
LMN	05/28	46822	11633	36310	3847	46524	3024	0	0	0	0	0	0	0	0	0	0	0	0
LGS	05/28	31769	16306	31735	3655	42189	2807	0	0	0	0	0	0	0	0	0	0	0	0
LGR	05/27	27770	18518	26334	4231	40431	2913	0	0	0	0	0	0	0	0	0	0	0	0
PRD	05/26	8641	2042	8152	293	15628	359	0	0	0	0	0	0	0	0	0	0	0	0
RIS	05/27	7316	3499	7259	293	11681	530	0	0	0	0	0	0	0	0	0	0	0	0
RRH	05/27	3279	496	2117	83	4372	162	0	0	0	0	0	0	0	0	0	0	0	0
WEL	05/27	1647	429	859	39	2230	68	0	0	0	0	0	0	0	0	0	0	0	0
WFA	05/26	13702	865	4839	41	-	-	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	2009	2008	Avg.	2009	2008	Avg.	2009		
BON	0	0	0	0	0	0	6	5	2	4125	3423	3766	1015		
TDA	0	0	0	0	0	0	1	2	0	1261	1413	1227	482		
JDA	0	0	0	0	0	0	1	1	0	3051	3300	2959	1707		
MCN	0	0	0	0	0	0	5	1	0	2403	2403	1833	1100		
IHR	0	0	0	0	0	0	1	0	0	3085	3170	2039	1074		
LMN	0	0	0	0	0	0	0	0	0	4712	4027	2169	2237		
LGS	0	0	0	0	0	0	0	0	0	5374	2616	2238	2186		
LGR	0	0	0	0	0	0	0	0	0	10775	7755	7751	3376		
PRD	0	0	0	0	0	0	0	0	9	52	110	14	0		
RIS	0	0	0	0	0	0	0	1	1	96	239	56	48		
RRH	0	0	0	0	0	0	0	1	0	406	454	165	194		
WEL	0	0	0	0	0	0	0	0	0	68	134	36	47		
WFA	0	0	0	0	-	-	0	0	-	7699	9793	-	-		

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