



# Fish Passage Center

## Weekly Report #09 - 06

April 17, 2009

1827 NE 44th Ave., Suite 240  
 Portland, OR 97213  
 phone: 503/230-4099  
 fax: 503/230-7559

### Summary of Events:

**Water Supply:** Precipitation throughout the Columbia Basin has varied between 75% and 141% of average at individual sub-basins over April. Precipitation above The Dalles has been 114% of average over April. Over the entire water year, precipitation has generally been near average.

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

Location	Water Year 2009 April 1-13		Water Year 2009 October 1, 2008 to April 13, 2009	
	Observed (inches)	% Average	Observed (inches)	% Average
Columbia Above Coulee	0.63	88	14.28	95
SNAKE RIVER ABOVE ICE HARBOR	0.71	112	11.53	106
Columbia Above The Dalles	0.81	114	14.95	100
Kootenai	0.70	92	13.81	90
Clark Fork	0.40	75	11.06	116
Flathead	0.57	83	12.42	97
Pend Oreille/Spokane	1.13	115	20.24	96
Central Washington	0.25	89	5.52	89
SNAKE RIVER PLAIN	0.46	103	6.15	94
Salmon/Boise/Payette	0.81	116	12.32	91
Clearwater	1.26	109	22.98	116
SW Washington Cascades/Cowlitz	3.26	141	50.17	90
Willamette Valley	2.74	131	40.06	85

Snowpack within the Columbia Basin has generally increased over the past month. Average snowpack in the Columbia River for basins above the Snake River confluence is 92% of average,

for Snake River Basins the average snowpack is 99% of average, and for lower Columbia Basins between McNary and Bonneville Dam average snowpack is 145% of average.

Table 2 displays the March Final and April Final runoff volume forecasts for multiple reservoirs. Water Supply Forecasts have increased at all sites between the March Final and April Final forecasts. The current forecast at The Dalles between January and July is 92000 Kaf (86% of average).

**Table 2. March Final and April Final Runoff Volume Forecasts for various reservoirs within the Columbia and Snake River Basins.**

Location	March Final		April Final	
	% Average (1971- 2000)	Probable Runoff Volume (Kaf)	% Average (1971- 2000)	Probable Runoff Volume (Kaf)
The Dalles (Jan-July)	80	86200	86	92000
Grand Coulee (Jan-July)	87	54900	89	56200
Libby Res. Inflow, MT (Apr-Aug)	84 84*	5250 5296*	88 90*	5500 5672*
Hungry Horse Res. Inflow, MT (Jan-July)	90	2010	94	2100
Lower Granite Res. Inflow (Apr- July)	75	16200	95	20400
Brownlee Res. Inflow (Apr-July)	53	3350	79	4970
Dworshak Res. Inflow (Apr-July)	82 92*	2170 2461*	102 99*	2710 2662

\* 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 from April 3-16 have averaged 76.0 Kcfs, flows at Priest Rapids from April 10<sup>th</sup> to 16<sup>th</sup> averaged 119.0 Kcfs and at McNary 223.2 Kcfs over the same date range.

Grand Coulee Reservoir is at 1271.9 feet (4-16-09) and has drafted 7.1 feet in the last week. Recent increases in runoff volume have resulted in lower flood control elevations at Grand Coulee. The end of April FC elevation at Grand Coulee is now 1257.7 feet. Outflows at Grand Coulee have ranged between 99.8 and 130.7 Kcfs over the last week.

The Libby Reservoir is currently at elevation 2403.1 feet (4-16-09) and refilled 0.3 feet last week. The end of April elevation at Libby is 2434.2 feet, therefore Libby is currently 31.1 feet below the end of April FC elevation at Libby. Outflows at Libby have been 4.0 Kcfs.

Hungry Horse is currently at an elevation of 3510.6 ft (4-16-09) and has refilled 2.3 feet last week. Outflows at Hungry Horse have been 0.9- 1.0 Kcfs last week; Hungry Horse has been operating to Columbia Falls Minimum outflows. The end of April FC Elevation at Hungry Horse is 3528.0 feet, therefore Hungry Horse is currently 17.4 feet below the end of April flood control.

Dworshak is currently at an elevation of 1527.1 feet (4-16-09) and drafted 3.0 feet last week. Outflows ranged between 14.4 and 16.9 Kcfs in response to an increased runoff volume forecast that established an end of April flood control elevation of 1515.6 feet. The project is drafting as much as possible while trying to meet water quality criteria for total dissolved gas.

The Brownlee Reservoir was at an elevation of 2051.0 feet on April 16<sup>th</sup>, 2009, drafting 0.6 feet last week. The end of April FC elevation is 2053.2 feet at Brownlee. Outflows at Brownlee Dam have been 17.4 to 23.2 Kcfs over the last week.

**Spill:**

Flows were increased at Dworshak Dam in response to the latest runoff volume forecast. Spill has ranged between 4.2 and 6.5 Kcfs over the past week and is expected to continue at this level, or higher, through the month. 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

Spill at Lower Granite Dam averaged an instantaneous 20 Kcfs, and spill at Little Goose Dam achieved the 30% over the 24 hour period. Spill to the gas cap at Lower Monumental Dam ranged between 29 and 32 Kcfs over the past week in response to the tailrace measurements of TDG at this project. Spill at Ice Harbor Dam is presently occurring as 45 Kcfs daytime spill and gas cap nighttime spill in advance on the implementation of study like conditions. Nighttime spill is below the gas cap, but this is due to the low river flows, as the project is spilling all flow in excess of one unit operation during nighttime hours.

The 2009 spill program began at the lower Columbia River projects at 0001 hours on April 10<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, John Day, The Dalles and Bonneville dams have all met the court ordered spill amounts over this past week.

With the exception of the Lower Monumental Dam tailrace monitor, total dissolved gas measurements at the federal hydroprojects were well under the waiver limits over this past week. The Lower Monumental tailrace slightly exceeded the 120% and spill at the project was adjusted. TDG at the Little Goose Dam forebay also exceeded the 115% level, but was due to a gage malfunction.

Gas bubble trauma (GBT) monitoring occurred at Lower Granite and Lower Monumental dams in the

Snake River and at McNary and Bonneville dams in the lower Columbia. No signs of GBT were detected in the samples.

**Adult Fish Passage:**

The historical counting schedule at Bonneville began March 15<sup>th</sup> and continues through November 15<sup>th</sup>. This counting schedule allows for comparison of current year counts with historical data. The historical counting schedule began on March 1<sup>st</sup> at Lower Granite Dam. Counting began on April 1<sup>st</sup> for The Dalles Dam, John Day Dam, McNary Dam, Ice Harbor Dam, Lower Monumental Dam, and Little Goose Dam. Willamette Falls Dam counts adult salmon throughout the entire year. The PUD dams in the Mid-Columbia River begin counting fish around April 15<sup>th</sup> except Wells Dam which starts counting on May 1<sup>st</sup>.

Adult counts at Bonneville Dam have been updated through April 16th. Daily adult spring Chinook counts at Bonneville Dam ranged from 55 to 179 adult salmon per day. Between March 15<sup>th</sup> and April 16th, 1421 spring Chinook have been counted at Bonneville Dam. In 2008, 8550 adult spring Chinook were counted at Bonneville Dam for the same time period. The 2009 adult spring Chinook count at Bonneville Dam is 16.61% of the 2008 count. The Bonneville spring Chinook adult count is only about 3.8% of the 10 year average of 37242. At Willamette Falls Dam 178 adult spring Chinook have been counted so far this year. At The Dalles Dam the 2009 adult spring Chinook is 589 and at McNary Dam 99 adult spring Chinook have been counted.

The Bonneville Dam 2009 steelhead count of 1471 is about 1.1 times greater than the 2008 count of 1331. The 2009 steelhead count is about 93% of the 10-year average of 1581. 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 184 to 345 adults per day last week. This year's Lower Granite steelhead count of 8487 is 1.4 times greater than the 2008 count of 5873 and 1.2 times greater than the 10 year average of 6898. The 2009 wild steelhead count as of April 16th was 2182. At Willamette Falls Dam, the 2009 count for steelhead was 2528, as of April 15th. This year's steelhead count is only about 56.5% of the 2008 count of 4474 at Willamette Falls Dam for the same date range.

At Bonneville Dam, daily counts of adult salmon and steelhead found on the separator and by passed are being tracked this year until one week after spill. Spill began on April 10<sup>th</sup>. The corner collector was opened on April 3<sup>rd</sup>. From March 15<sup>th</sup> to April 16th, daily adult steelhead by passed counts ranged from 0 to 6. A total of 88 adult steelhead and 2 adult Chinook have been by passed. Additionally, 5 unknown adult salmonids have been by passed between March 15<sup>th</sup> and April 16<sup>th</sup>.

Stansell et al. reported that as of April 10<sup>th</sup>, that as many as 24 California sea lions and 25 Steller sea lions have been counted at Bonneville Dam on a single day. The highest daily abundance of sea lions at Bonneville Dam occurred on March 26<sup>th</sup> when 42 sea lions were observed at the dam. Sea lion trapping began on March 10th. To date, a total of 11 animals have been trapped and removed. The traps will continue to be used to mark sea lions not previously seen at the dam and to remove animals that meet the removal criteria granted to the states by NOAA Fisheries under Section 120 of the Marine Mammal Protection Act. Hazing from boats began in January has been conducted on most days through April 10th.

Stansell, Robert; Tackley, Sean; and Gibbons, Karrie. 2009. Status Report – Pinniped Predation and Deterrent Activities at Bonneville Dam, 2009. Fisheries Field Unit, US Army Corps of Engineers, Bonneville Lock and Dam, Cascade Locks, Oregon. Available online at <http://www.nwd-wc.usace.army.mil/tmt/documents/fish/2009/update20090410.pdf>.

**Smolt Monitoring:**

Relatively large numbers of yearling Chinook were captured at SMP traps this week reflecting the passage of large releases from tributary hatcheries. Steelhead passage has also increased at the trap. Passage of yearling Chinook and Steelhead increased greatly over the past week at Lower Granite and Little Goose dams. Bonneville Dam sampled large numbers of subyearling Chinook this week released from Spring Creek and Little White Salmon Hatcheries.

The Salmon River Trap has been capturing large numbers of hatchery yearling Chinook over the past two weeks as recent releases pass down stream. On April 15 the trap collected 4,267 yearling Chinook, over 90 percent were clipped fish. Increased collection coincided with a peak in flows on the Salmon River near 12 Kcfs, which was 2 Kcfs above historic median for this time period. Wild yearling Chinook collection numbers increased also, to nearly 400 on April 15.

At the Imnaha River Trap large numbers of yearling Chinook continue to be collected as acclimation releases continued passing; collection of yearling Chinook was 2,362 fish on April 15, with nearly 2,100 of those fish of hatchery origin. Flows in the Imnaha River have peaked a day earlier than the Salmon, when flows reached over 1,100 cfs compared to historic median for that data of 790 cfs as measured at the USGS Imnaha gage. The Grande Ronde Trap also had a peak in collection on April 15 of 2,830 yearling Chinook with all but 70 either clipped or with a coded wire tag. Flows in the Grande Ronde River, as measured at Troy have remained well above historic median values over the past week, with flows in excess of 12 Kcfs compared to historic median of just over 6 Kcfs. The Lewiston Trap on the Snake River has been capturing increasing numbers of yearling Chinook as well as steelhead. Flows were above historic median over the past week in the Snake River.

Over the past week of sampling at Lower Granite Dam hatchery origin yearling Spring/Summer Chinook have predominated. The passage index for yearling Chinook averaged 14,000 per day this past week compared to 4,500 per day last week. Steelhead indices averaged 9,000 per day this week compared to 900 per day last week.

At Rock Island dam small numbers of all species have been collected. Chinook fry have predominated the sample. McNary Dam began sampling on April 9. The relatively late start date was due to a delayed installation of screens at the project to allow juvenile lamprey passage via non-screen routes. The site continues to collect silver lamprey with 50, 29, and 42 sampled on April 11, 13 and 15 respectively. The predominant salmonids in the sample at McNary Dam were yearling Chinook with the passage index averaging about 2,400 per day in the past 3 samples compared to 1,200 steelhead. At Bonneville Dam large numbers of subyearling Chinook passed the project this week as the latest release from Spring Creek and Little White National Fish Hatcheries passed the project. Peak passage appeared to have been on April 15 when the passage index was 870,000, with an estimated 314,000 fish passing through the bypass on that date. Smaller numbers of yearling Chinook, steelhead and coho have also been captured at the site.

#### **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. In all, about 442,000 yearling fall Chinook from Lyons Ferry Hatchery were scheduled to be released from acclimation facilities on the Snake and Clearwater rivers, above Lower Granite Dam. These releases were scheduled to begin in mid-April. However, due to disease, the release of 142,000 yearling fall Chinook from Captain Johns Rapids acclimation facility began early (April 3<sup>rd</sup>). The other two releases of yearling fall Chinook above Lower Granite dam were scheduled to begin this week. These releases include 150,000 juveniles from Pittsburg Landing Acclimation Pond on the Snake River and Big Canyon Creek Acclimation Pond on the Clearwater River. In addition to these releases, approximately 450,000 yearling fall Chinook from Lyons Ferry were scheduled for direct release into the Snake River, beginning on or around April 1<sup>st</sup> and running through April 15<sup>th</sup>. Many releases of yearling spring Chinook that began weeks ago were scheduled to end this week. In all, these earlier releases total just over 2.8 million spring Chinook juveniles. Of these, about 84% were scheduled for release into the Clearwater River and its tributaries, 10% to the Imnaha River, and 5% to the Grande Rhonde River. In addition to these releases of spring Chinook juveniles, about 286,000 yearling spring Chinook juveniles were scheduled for release from acclimation facilities into the Grande Rhonde River this week. Finally, several releases of summer steelhead to the Snake River Zone were scheduled to begin this week. In all, these releases are expected to total approximately 2.22 million summer steelhead juveniles. Of these, about 40% were scheduled for release into the Salmon River and 34% were scheduled for release into the Clearwater River and its tributaries. The remaining 25% were split between the Wallowa (12%), Grande Rhonde (7%), Tucannon (4.5%), and Snake (3%) rivers.

Two releases of yearling spring Chinook to the Tucannon River (Curl Lake) that began weeks ago are scheduled to end next week. In all, these releases total approximately 114,000 juveniles. In addition to these earlier releases, about 275,000 yearling spring Chinook are scheduled for release into the Salmon River on April 24<sup>th</sup>. Approximately 230,000 coho juveniles are scheduled for release into the Clearwater River on April 30<sup>th</sup>. Several releases of summer steelhead that began weeks ago are scheduled to end over the next two weeks. In all, these releases total just over 1.16 million juveniles. In addition to these earlier releases, just over 3.03 million summer steelhead juveniles are scheduled for release into this zone over the next two

weeks. Of these, about 44% are scheduled for release into the Clearwater River and its tributaries, 27% to the Pahasimeroi River, 24% to the Salmon River and its tributaries, and 5% to the Imnaha River.

**Mid-Columbia Zone:** The Mid-Columbia Zone encompasses the area of the Columbia River and its tributaries from McNary Dam to Chief Joseph Dam. This week, nearly 290,000 subyearling fall Chinook juveniles were scheduled for release from Prosser Acclimation Facility into the Yakima River. Several releases of yearling spring Chinook to the Methow River were scheduled to begin this week. In all, these spring Chinook releases are expected to total nearly 731,000 juveniles, some of which are expected to run through the end of April. In addition, approximately 1.95 million yearling summer Chinook were scheduled for release throughout this zone this week. Of these, about 32% are scheduled for release into the Okanogan River, 24% into the Wenatchee River, 22% into the Methow River, and 22% into the mid-Columbia River. All of these releases are expected to run through late April and possibly mid-May. The Yakama Tribal Program to re-establish Coho runs in the Yakima, Methow, and Wenatchee basins continued its releases this week. One release of just over 286,000 coho juveniles to the Methow River was scheduled to begin this week. Finally, about 752,000 summer steelhead were scheduled for release into this zone this week. Of these, about 43% were scheduled to be released into the Wenatchee River and 24% were scheduled for release into the mid-Columbia River. The remaining 33% were scheduled for release into the Touchet (17%), Walla Walls (13%), and Okanogan (2%) rivers.

Approximately 1.7 million subyearling fall Chinook are scheduled for release into the Yakima River over the next two weeks. In addition, approximately 1.63 million yearling spring Chinook are scheduled for release into the Wenatchee River over the next two weeks. As mentioned above, the Yakama Tribal Program to re-establish Coho runs in the Methow basin began its releases this week, with a release of approximately 286,000 coho juveniles to the Methow River. In addition, new releases of coho juveniles to the Wenatchee basin are expected to begin over the next two weeks. In particular, there is a release of just over 183,000 coho juveniles to Icicle Creek scheduled for April 20<sup>th</sup>. Other earlier releases of coho juveniles to the Yakima and Wenatchee river basins are expected to continue over the next several weeks. Finally, several releases totaling about 452,000 summer steelhead are

anticipated to begin over the next two weeks. Of these, about 71% are scheduled for release into the Methow River and 29% are scheduled for release into the Okanogan River.

**Lower Columbia Zone:** The Lower Columbia Zone is defined as the Columbia River and its tributaries from Bonneville Dam to McNary Dam. Nearly 8.2 million subyearling fall Chinook juveniles were released into the Lower Columbia River Zone this week. These subyearling fall Chinook releases are part of the agreement to “re-program” Spring Creek NFH in order to eliminate the need for a March release. Of the nearly 8.2 million juveniles released, about 79% were released from Spring Creek NFH and 21% were released from Little White Salmon NFH. In addition, just over 2.22 million yearling spring Chinook were scheduled for release into this zone this week. Of these, about 55% were scheduled for release into the Wind River and 45% were scheduled for release into the Little White Salmon River. Two releases of coho that began weeks ago were scheduled to end this week. In all, these earlier releases total about 3.0 million coho juveniles. Of these, about 83% were scheduled for release into the Klickitat River and 17% were scheduled for release into the Umatilla River. Approximately 194,000 summer steelhead were scheduled for release to this zone this week. Of these, about 77% are scheduled for release into the Umatilla River, 12% to the White Salmon River, and 10% to Hood River. Finally, about 20,000 winter steelhead juveniles were scheduled for release into the White Salmon River, beginning on or around April 15<sup>th</sup>.

Two releases of yearling spring Chinook juveniles to the Deschutes and Hood rivers that began weeks ago are scheduled to end next week. In all, these releases will total about 607,500 spring Chinook juveniles, with 94% being released to the Deschutes and 6% being released to Hood River. Finally, beginning April 30<sup>th</sup>, about 37,500 winter steelhead are scheduled for release into Hood River.

**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
04/03/2009	57.4	0.0	56.3	0.0	50.1	0.0	45.1	0.0	44.9	0.0	65.0	0.0	64.2	0.0
04/04/2009	48.6	0.0	45.8	0.0	54.3	0.0	57.0	0.0	56.5	0.0	71.7	0.0	63.5	0.0
04/05/2009	31.2	0.0	31.2	0.0	34.4	0.0	36.5	0.0	38.0	0.0	56.0	0.0	61.9	0.0
04/06/2009	61.9	0.0	65.0	0.0	64.9	0.0	62.8	0.0	62.5	0.0	71.1	0.0	61.9	0.0
04/07/2009	80.5	0.0	73.3	0.0	71.3	0.0	69.1	0.0	69.7	0.0	63.1	0.0	63.2	0.0
04/08/2009	78.9	0.0	82.1	0.0	85.2	0.0	81.2	0.0	79.9	0.0	65.4	0.0	65.7	0.0
04/09/2009	87.2	0.0	86.2	0.0	90.2	0.0	88.4	0.0	90.3	0.0	89.9	0.0	75.2	0.0
04/10/2009	110.0	0.0	102.2	0.0	105.5	0.0	107.6	0.0	109.0	0.0	104.3	0.0	108.3	0.0
04/11/2009	101.7	0.0	109.1	0.0	105.4	0.0	95.1	0.0	95.9	0.0	104.0	0.0	111.9	0.0
04/12/2009	99.8	0.0	95.7	0.0	113.5	8.1	120.3	0.0	124.0	0.0	123.9	0.0	106.0	0.0
04/13/2009	109.7	0.0	104.9	0.0	99.2	7.6	91.1	0.0	91.4	0.0	108.1	0.0	121.1	0.0
04/14/2009	130.7	0.0	131.5	0.0	137.6	15.1	130.0	0.0	129.2	0.0	124.5	3.2	111.9	0.0
04/15/2009	121.1	0.0	120.4	0.0	126.7	8.3	123.7	0.0	126.0	0.0	134.6	0.4	142.1	0.0
04/16/2009	123.3	0.0	133.2	0.0	140.2	8.7	133.3	0.0	130.4	0.0	129.6	0.0	131.4	0.0

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

Date	Dworshak		Brownlee Canyon		Hells Granite		Lower Granite		Little Goose		Lower Monumental		Ice Harbor	
	Flow	Spill	Inflow	Outflow	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill
04/03/2009	14.0	3.6	13.2	13.8	63.9	20.1	62.6	18.7	66.6	26.7	71.0	53.3		
04/04/2009	14.1	3.7	13.6	17.8	59.4	20.2	53.9	16.2	59.1	27.0	63.6	48.6		
04/05/2009	14.0	3.6	12.9	19.8	64.0	20.2	61.8	18.5	63.8	26.8	68.1	50.7		
04/06/2009	14.0	3.6	13.8	19.4	64.1	20.3	64.8	19.3	68.2	29.9	71.7	53.5		
04/07/2009	14.0	3.5	13.3	16.2	64.9	20.5	66.2	19.9	67.7	32.0	72.7	54.5		
04/08/2009	13.3	4.0	13.8	20.5	66.2	20.6	61.5	18.2	64.0	28.5	66.9	54.2		
04/09/2009	14.9	4.4	15.2	22.0	79.8	20.6	79.7	23.8	85.1	25.2	88.4	59.5		
04/10/2009	14.9	4.4	15.7	20.7	83.0	20.6	79.2	23.9	83.0	24.5	85.4	59.6		
04/11/2009	14.4	4.3	16.6	19.0	80.4	20.3	78.3	23.5	82.5	27.0	83.9	58.8		
04/12/2009	15.0	4.4	18.3	22.8	83.4	20.4	80.9	24.3	85.3	29.8	87.8	60.5		
04/13/2009	14.9	4.3	19.3	24.4	88.0	20.3	84.5	25.3	87.6	30.8	88.4	62.3		
04/14/2009	15.7	5.1	22.9	23.8	94.5	20.4	90.5	27.0	96.4	29.9	99.6	64.7		
04/15/2009	16.9	6.3	22.5	21.7	89.9	20.5	88.3	26.5	93.7	29.5	96.3	62.2		
04/16/2009	14.8	4.2	---	---	82.1	20.4	78.6	24.2	80.4	28.9	82.0	55.2		

**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
04/03/2009	135.3	0.0	147.0	0.0	145.1	0.0	156.2	1.6	39.8	104.9
04/04/2009	137.4	0.0	150.4	0.0	153.1	0.0	169.1	1.6	50.0	106.2
04/05/2009	131.4	0.0	140.4	0.0	139.7	0.0	153.5	1.6	43.5	97.0
04/06/2009	135.4	0.3	146.5	0.0	149.7	0.0	168.8	1.5	57.7	98.1
04/07/2009	145.6	0.0	159.5	0.0	161.1	0.0	169.3	1.5	53.1	103.3
04/08/2009	129.8	0.0	126.6	0.0	129.4	0.0	140.3	1.6	26.8	100.6
04/09/2009	147.6	0.4	174.0	0.1	170.2	0.0	180.5	5.1	59.1	104.9
04/10/2009	205.4	82.4	214.2	64.3	212.0	84.7	215.9	100.5	13.7	90.3
04/11/2009	207.0	83.0	210.4	63.0	202.3	81.2	229.6	101.6	27.2	89.3
04/12/2009	223.5	89.6	231.2	69.4	221.8	88.9	245.6	100.9	45.7	87.6
04/13/2009	213.2	85.6	204.3	61.5	193.9	77.8	227.4	100.1	28.0	87.9
04/14/2009	243.8	97.5	256.7	77.2	249.7	99.8	254.5	99.4	48.0	95.7
04/15/2009	246.0	98.4	251.3	75.5	248.7	99.2	265.0	100.2	61.3	92.0
04/16/2009	223.4	89.6	226.0	68.2	217.8	87.0	236.8	100.0	38.6	86.8

### Hatchery Releases Last Two Weeks

#### Hatchery Release Summary

From: 4/17/2009 to 4/30/2009

Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
Colville Tribe	Cassimer Bar Hatchery	ST	SU	2009	2,000	04-15-09	04-30-09	Okanogan River	Okanogan River
Colville Tribe	Cassimer Bar Hatchery	ST	SU	2009	14,000	04-15-09	04-30-09	Omak Creek Bonaparte Acclimation Pond	Okanogan River
Colville Tribe	Eastbank Hatchery	CH1	SU	2009	100,000	04-15-09	04-30-09	Pond	Okanogan River
<b>Colville Tribe Total</b>					<b>116,000</b>				
Idaho Dept. of Fish and Game	Clearwater Hatchery	ST	SU	2009	100,686	04-01-09	04-30-09	Red River	S Fk Clearwater River
Idaho Dept. of Fish and Game	Clearwater Hatchery	ST	SU	2009	165,457	04-01-09	04-30-09	Crooked River	S Fk Clearwater River
Idaho Dept. of Fish and Game	Clearwater Hatchery	ST	SU	2009	264,219	04-01-09	04-30-09	S Fk Clearwater River	Clearwater River M F
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2009	31,000	04-27-09	04-29-09	Yankee Fk (Salmon R)	Salmon River (ID)
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2009	31,000	04-30-09	04-30-09	Slate Creek Squaw Creek	Salmon River (ID)
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2009	57,000	04-20-09	04-24-09	(Clearwater)	Clearwater River M F
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2009	60,000	04-30-09	04-30-09	Slate Creek	Salmon River (ID)
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2009	62,000	04-20-09	04-24-09	Salmon River (ID)	Salmon River (ID)
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2009	62,000	04-27-09	04-29-09	Salmon River (ID)	Salmon River (ID)
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2009	62,000	04-27-09	04-29-09	Yankee Fk (Salmon R)	Salmon River (ID)
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2009	68,000	04-27-09	04-30-09	East Fk Salmon River	Salmon River (ID)
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2009	125,000	04-11-09	04-17-09	Salmon River (ID)	Salmon River (ID)
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2009	125,000	04-20-09	04-24-09	Salmon River (ID)	Salmon River (ID)
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2009	220,000	04-20-09	04-24-09	East Fk Salmon River Squaw Creek	Salmon River (ID)
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2009	280,000	04-20-09	04-24-09	(Clearwater)	Clearwater River M F
Idaho Dept. of Fish and Game	Niagara Springs	ST	SU	2009	170,000	04-01-09	05-01-09	Little Salmon River	Salmon River (ID)
Idaho Dept. of Fish and Game	Niagara Springs	ST	SU	2009	830,000	04-09-09	04-28-09	Pahsimeroi River	Pahsimeroi River
Idaho Dept. of Fish and Game	Sawtooth Hatchery	CH1	SP	2009	275,000	04-24-09	04-24-09	Salmon River (ID)	Salmon River (ID)
<b>Idaho Dept. of Fish and Game Total</b>					<b>2,988,362</b>				
Nez Perce Tribe	Clearwater Hatchery	ST	SU	2009	25,360	04-01-09	04-30-09	Meadow Creek - CLES	S Fk Clearwater River
Nez Perce Tribe	Clearwater Hatchery	ST	SU	2009	25,360	04-01-09	04-30-09	Mill Cr Bridge	S Fk Clearwater River
Nez Perce Tribe	Clearwater Hatchery	ST	SU	2009	50,271	04-01-09	04-30-09	Lolo Creek	Clearwater River M F
Nez Perce Tribe	Clearwater Hatchery	ST	SU	2009	73,324	04-01-09	04-30-09	Crooked River	S Fk Clearwater River
Nez Perce Tribe	Clearwater Hatchery	ST	SU	2009	131,939	04-01-09	04-30-09	Red River	S Fk Clearwater River
Nez Perce Tribe	Dworshak NFH	CO	UN	2009	230,000	04-30-09	04-30-09	Clear Creek	Clearwater River M F
Nez Perce Tribe	Dworshak NFH	ST	SU	2009	115,000	04-13-09	04-17-09	American River	S Fk Clearwater River
Nez Perce Tribe	Dworshak NFH	ST	SU	2009	115,000	04-13-09	04-17-09	Newsome Creek	S Fk Clearwater River
<b>Nez Perce Tribe Total</b>					<b>766,254</b>				
Oregon Dept. of Fish and Wildlife	Irrigon Hatchery Complex	ST	SU	2009	146,000	04-28-09	04-28-09	Little Sheep Creek Big Canyon Acclim.Pd	Imnaha River
Oregon Dept. of Fish and Wildlife	Irrigon Hatchery Complex	ST	SU	2009	156,000	04-17-09	04-17-09	(Grande Ronde)	Grande Ronde River
<b>Oregon Dept. of Fish and Wildlife Total</b>					<b>302,000</b>				
U.S. Fish and Wildlife Service	Dworshak NFH	ST	SU	2009	225,000	04-13-09	04-17-09	Redhouse (SFk ClearH20 R)	S Fk Clearwater River
U.S. Fish and Wildlife Service	Dworshak NFH	ST	SU	2009	300,000	04-13-09	04-17-09	Clear Creek	Clearwater River M F
U.S. Fish and Wildlife Service	Dworshak NFH	ST	SU	2009	1,000,000	04-20-09	04-24-09	Dworshak Hatchery	Clearwater River M F
U.S. Fish and Wildlife Service	Hagerman NFH	ST	SU	2009	766,000	04-13-09	05-01-09	Salmon River (ID)	Salmon River (ID)
U.S. Fish and Wildlife Service	Leavenworth NFH	CH1	SP	2009	1,625,000	04-30-09	04-30-09	Icicle Creek Little White Salmon Hatchery	Wenatchee River Little White Salmon River
U.S. Fish and Wildlife Service	Little White Salmon NFH	CH0	FA	2009	1,700,000	04-13-09	04-17-09	Warm Springs	River
U.S. Fish and Wildlife Service	Warm Springs NFH	CH1	SP	2009	570,000	03-20-09	04-20-09	Hatchery	Deschutes River
U.S. Fish and Wildlife Service	Winthrop NFH	ST	SU	2009	102,000	04-30-09	04-30-09	Winthrop Hatchery	Methow River
<b>U.S. Fish and Wildlife Service Total</b>					<b>6,288,000</b>				
Warm Springs Tribe	Oak Springs Hatchery	ST	WI	2009	12,500	04-30-09	04-30-09	Parkdale Acclim Pond E Fk Irrig Dist Sand	Hood River
Warm Springs Tribe	Oak Springs Hatchery	ST	WI	2009	25,000	04-30-09	04-30-09	Trap	Hood River
Warm Springs Tribe	Round Butte Hatchery	CH1	SP	2009	37,500	04-24-09	04-24-09	W Fk Hood River	Hood River
<b>Warm Springs Tribe Total</b>					<b>75,000</b>				

Hatchery Releases Last Two Weeks - Continued

Washington Dept. of Fish and Wildlife	Eastbank Hatchery	CH1	SU	2009	462,000	04-15-09	04-30-09	Dryden Acclim Pond	Wenatchee River
Washington Dept. of Fish and Wildlife	Eastbank Hatchery	CH1	SU	2009	520,000	04-15-09	05-07-09	Similkameen Acclim Pd	Okanogan River
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	CH1	FA	2009	447,500	04-01-09	04-15-09	Lyons Ferry Hatchery	Snake River
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	ST	SU	2009	44,000	04-15-09	04-30-09	Baileysburg Bridge	Touchet River
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	ST	SU	2009	60,000	04-15-09	04-30-09	Lyons Ferry Hatchery	Snake River
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	ST	SU	2009	85,000	04-15-09	04-30-09	Dayton Acclim Pond	Touchet River
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	ST	SU	2009	100,000	04-15-09	04-30-09	Tucannon River	Tucannon River
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	ST	SU	2009	100,000	04-15-09	04-30-09	Walla Walla River Cottonwood Acclim	Walla Walla River
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	ST	SU	2009	168,000	04-01-09	04-30-09	Pond	Grande Ronde River
Washington Dept. of Fish and Wildlife	Methow Hatchery	CH1	SP	2009	58,000	04-15-09	04-30-09	Twisp Acclim Pond	Methow River
Washington Dept. of Fish and Wildlife	Methow Hatchery	CH1	SP	2009	122,000	04-15-09	04-30-09	Methow River	Methow River
Washington Dept. of Fish and Wildlife	Methow Hatchery	CH1	SP	2009	131,000	04-15-09	04-30-09	Chewuch Acclim Pond	Methow River
Washington Dept. of Fish and Wildlife	Methow Hatchery	CH1	SU	2009	434,000	04-15-09	04-30-09	Carlton Acclim Pond Ringold Springs	Methow River
Washington Dept. of Fish and Wildlife	Ringold Springs Hatchery	ST	SU	2009	180,000	04-14-09	04-24-09	Hatchery	Mid-Columbia River
Washington Dept. of Fish and Wildlife	Skamania Hatchery	ST	SU	2009	24,000	04-15-09	05-01-09	White Salmon River	White Salmon River
Washington Dept. of Fish and Wildlife	Skamania Hatchery	ST	WI	2009	20,000	04-15-09	05-01-09	White Salmon River	White Salmon River
Washington Dept. of Fish and Wildlife	Tucannon Hatchery	CH1	SP	2009	55,000	04-01-09	04-21-09	Curl Lake Acclim Pond	Tucannon River
Washington Dept. of Fish and Wildlife	Tucannon Hatchery	CH1	SP	2009	59,000	04-01-09	04-21-09	Curl Lake Acclim Pond	Tucannon River
Washington Dept. of Fish and Wildlife	Turtle Rock Hatchery	CH1	SU	2009	116,000	04-15-09	05-15-09	Chelan Falls	Mid-Columbia River
Washington Dept. of Fish and Wildlife	Turtle Rock Hatchery	ST	SU	2009	11,000	04-15-09	05-15-09	Chiwawa River	Wenatchee River
Washington Dept. of Fish and Wildlife	Turtle Rock Hatchery	ST	SU	2009	30,500	04-15-09	05-15-09	Chiwawa River	Wenatchee River
Washington Dept. of Fish and Wildlife	Turtle Rock Hatchery	ST	SU	2009	50,000	04-15-09	05-15-09	Wenatchee River	Wenatchee River
Washington Dept. of Fish and Wildlife	Turtle Rock Hatchery	ST	SU	2009	50,500	04-15-09	05-15-09	Wenatchee River	Wenatchee River
Washington Dept. of Fish and Wildlife	Turtle Rock Hatchery	ST	SU	2009	68,000	04-15-09	05-15-09	Wenatchee River	Wenatchee River
Washington Dept. of Fish and Wildlife	Turtle Rock Hatchery	ST	SU	2009	117,000	04-15-09	05-15-09	Nason Creek	Wenatchee River
Washington Dept. of Fish and Wildlife	Washougal Hatchery	CO	NO	2009	2,500,000	04-01-09	04-15-09	Klickitat River	Klickitat River
Washington Dept. of Fish and Wildlife	Wells Hatchery	CH1	SU	2009	318,000	04-13-09	05-15-09	Wells Hatchery	Mid-Columbia River
<b>Washington Dept. of Fish and Wildlife Total</b>					<b>6,330,500</b>				
Yakama Tribe	Cascade Hatchery	CO	UN	2009	38,869	04-01-09	04-15-09	Nason Creek Jack Creek Acclim	Wenatchee River
Yakama Tribe	Cle Elem Hatchery	CH1	SP	2009	251,067	03-16-09	05-15-09	Pond	Yakima River
Yakama Tribe	Cle Elem Hatchery	CH1	SP	2009	254,889	03-16-09	05-15-09	Easton Pond	Yakima River
Yakama Tribe	Cle Elem Hatchery	CH1	SP	2009	266,044	03-16-09	05-15-09	Clark Flat Acclim Pond	Yakima River
Yakama Tribe	Eagle Creek NFH	CO	UN	2009	50,000	04-06-09	05-15-09	Boone Pond	Yakima River
Yakama Tribe	Eagle Creek NFH	CO	UN	2009	72,000	04-06-09	05-15-09	Easton Pond Lost Creek Acclim	Yakima River
Yakama Tribe	Eagle Creek NFH	CO	UN	2009	97,000	04-06-09	05-15-09	Pond	Yakima River
Yakama Tribe	Eagle Creek NFH	CO	UN	2009	150,000	04-06-09	05-15-09	Holmes Pond	Yakima River
Yakama Tribe	Eagle Creek NFH	CO	UN	2009	170,000	04-06-09	05-15-09	Stiles Pond	Yakima River
Yakama Tribe	Prosser Acclim. Pond	CH1	FA	2009	8,311	04-10-09	04-10-09	Prosser Acclim Pond	Yakima River
Yakama Tribe	Prosser Acclim. Pond	CH0	FA	2009	8,311	04-10-09	04-10-09	Prosser Acclim Pond	Yakima River
Yakama Tribe	Prosser Acclim. Pond	CH0	FA	2009	20,000	04-10-09	04-10-09	Marion Drain	Yakima River
Yakama Tribe	Prosser Acclim. Pond	CH0	FA	2009	289,689	04-15-09	04-15-09	Prosser Acclim Pond	Yakima River
Yakama Tribe	Prosser Acclim. Pond	CO	UN	2009	37,659	04-06-09	05-15-09	Easton Pond Lost Creek Acclim	Yakima River
Yakama Tribe	Prosser Acclim. Pond	CO	UN	2009	68,473	04-06-09	05-15-09	Pond	Yakima River
Yakama Tribe	Prosser Acclim. Pond	CO	UN	2009	73,217	04-06-09	05-15-09	Holmes Pond	Yakima River
Yakama Tribe	Prosser Acclim. Pond	CO	UN	2009	74,124	04-06-09	05-15-09	Stiles Pond	Yakima River
Yakama Tribe	Prosser Acclim. Pond	CO	UN	2009	109,549	04-06-09	05-15-09	Prosser Acclim Pond	Yakima River
Yakama Tribe	Washougal Hatchery	CO	UN	2009	120,000	04-06-09	05-15-09	Prosser Acclim Pond	Yakima River
Yakama Tribe	Winthrop NFH	CO	UN	2009	286,213	04-15-09	04-30-09	Winthrop Hatchery	Methow River
<b>Yakama Tribe Total</b>					<b>2,445,415</b>				
<b>Grand Total</b>					<b>30,925,938</b>				

### Hatchery Releases Next Two Weeks

Hatchery Release Summary									
From:									
Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
Colville Tribe	Cassimer Bar Hatchery	ST	SU	2009	2,000	04-15-09	04-30-09	Okanogan River	Okanogan River
Colville Tribe	Cassimer Bar Hatchery	ST	SU	2009	14,000	04-15-09	04-30-09	Omak Creek Bonaparte Acclimation Pond	Okanogan River
Colville Tribe	Eastbank Hatchery	CH1	SU	2009	100,000	04-15-09	04-30-09		Okanogan River
<b>Colville Tribe Total</b>					<b>116,000</b>				
Idaho Dept. of Fish and Game	Clearwater Hatchery	ST	SU	2009	100,686	04-01-09	04-30-09	Red River	S Fk Clearwater River
Idaho Dept. of Fish and Game	Clearwater Hatchery	ST	SU	2009	165,457	04-01-09	04-30-09	Crooked River	S Fk Clearwater River
Idaho Dept. of Fish and Game	Clearwater Hatchery	ST	SU	2009	264,219	04-01-09	04-30-09	S Fk Clearwater River	Clearwater River M F
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2009	31,000	04-27-09	04-29-09	Yankee Fk (Salmon R)	Salmon River (ID)
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2009	31,000	04-30-09	04-30-09	Slate Creek Squaw Creek	Salmon River (ID)
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2009	57,000	04-20-09	04-24-09	(Clearwater)	Clearwater River M F
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2009	60,000	04-30-09	04-30-09	Slate Creek	Salmon River (ID)
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2009	62,000	04-20-09	04-24-09	Salmon River (ID)	Salmon River (ID)
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2009	62,000	04-27-09	04-29-09	Salmon River (ID)	Salmon River (ID)
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2009	62,000	04-27-09	04-29-09	Yankee Fk (Salmon R)	Salmon River (ID)
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2009	68,000	04-27-09	04-30-09	East Fk Salmon River	Salmon River (ID)
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2009	125,000	04-11-09	04-17-09	Salmon River (ID)	Salmon River (ID)
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2009	125,000	04-20-09	04-24-09	Salmon River (ID)	Salmon River (ID)
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2009	220,000	04-20-09	04-24-09	East Fk Salmon River Squaw Creek	Salmon River (ID)
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2009	280,000	04-20-09	04-24-09	(Clearwater)	Clearwater River M F
Idaho Dept. of Fish and Game	Niagara Springs	ST	SU	2009	170,000	04-01-09	05-01-09	Little Salmon River	Salmon River (ID)
Idaho Dept. of Fish and Game	Niagara Springs	ST	SU	2009	830,000	04-09-09	04-28-09	Pahsimeroi River	Pahsimeroi River
Idaho Dept. of Fish and Game	Sawtooth Hatchery	CH1	SP	2009	275,000	04-24-09	04-24-09	Salmon River (ID)	Salmon River (ID)
<b>Idaho Dept. of Fish and Game Total</b>					<b>2,988,362</b>				
Nez Perce Tribe	Clearwater Hatchery	ST	SU	2009	25,360	04-01-09	04-30-09	Meadow Creek - CLES	S Fk Clearwater River
Nez Perce Tribe	Clearwater Hatchery	ST	SU	2009	25,360	04-01-09	04-30-09	Mill Cr Bridge	S Fk Clearwater River
Nez Perce Tribe	Clearwater Hatchery	ST	SU	2009	50,271	04-01-09	04-30-09	Lolo Creek	Clearwater River M F
Nez Perce Tribe	Clearwater Hatchery	ST	SU	2009	73,324	04-01-09	04-30-09	Crooked River	S Fk Clearwater River
Nez Perce Tribe	Clearwater Hatchery	ST	SU	2009	131,939	04-01-09	04-30-09	Red River	S Fk Clearwater River
Nez Perce Tribe	Dworshak NFH	CO	UN	2009	230,000	04-30-09	04-30-09	Clear Creek	Clearwater River M F
Nez Perce Tribe	Dworshak NFH	ST	SU	2009	115,000	04-13-09	04-17-09	American River	S Fk Clearwater River
Nez Perce Tribe	Dworshak NFH	ST	SU	2009	115,000	04-13-09	04-17-09	Newsome Creek	S Fk Clearwater River
<b>Nez Perce Tribe Total</b>					<b>766,254</b>				
Oregon Dept. of Fish and Wildlife	Irrigon Hatchery Complex	ST	SU	2009	146,000	04-28-09	04-28-09	Little Sheep Creek	Imnaha River
Oregon Dept. of Fish and Wildlife	Irrigon Hatchery Complex	ST	SU	2009	156,000	04-17-09	04-17-09	Big Canyon Acclim.Pd (Grande Ronde)	Grande Ronde River
<b>Oregon Dept. of Fish and Wildlife Total</b>					<b>302,000</b>				
U.S. Fish and Wildlife Service	Dworshak NFH	ST	SU	2009	225,000	04-13-09	04-17-09	Redhouse (SFk ClearH20 R)	S Fk Clearwater River
U.S. Fish and Wildlife Service	Dworshak NFH	ST	SU	2009	300,000	04-13-09	04-17-09	Clear Creek	Clearwater River M F
U.S. Fish and Wildlife Service	Dworshak NFH	ST	SU	2009	1,000,000	04-20-09	04-24-09	Dworshak Hatchery	Clearwater River M F
U.S. Fish and Wildlife Service	Hagerman NFH	ST	SU	2009	766,000	04-13-09	05-01-09	Salmon River (ID)	Salmon River (ID)
U.S. Fish and Wildlife Service	Leavenworth NFH	CH1	SP	2009	1,625,000	04-30-09	04-30-09	Icicle Creek Little White Salmon Hatchery	Wenatchee River Little White Salmon River
U.S. Fish and Wildlife Service	Little White Salmon NFH	CH0	FA	2009	1,700,000	04-13-09	04-17-09	Warm Springs	
U.S. Fish and Wildlife Service	Warm Springs NFH	CH1	SP	2009	570,000	03-20-09	04-20-09	Hatchery	Deschutes River
U.S. Fish and Wildlife Service	Winthrop NFH	ST	SU	2009	102,000	04-30-09	04-30-09	Winthrop Hatchery	Methow River
<b>U.S. Fish and Wildlife Service Total</b>					<b>6,288,000</b>				
Warm Springs Tribe	Oak Springs Hatchery	ST	WI	2009	12,500	04-30-09	04-30-09	Parkdale Acclim Pond E Fk Irrig Dist Sand	Hood River
Warm Springs Tribe	Oak Springs Hatchery	ST	WI	2009	25,000	04-30-09	04-30-09	Trap	Hood River
Warm Springs Tribe	Round Butte Hatchery	CH1	SP	2009	37,500	04-24-09	04-24-09	W Fk Hood River	Hood River
<b>Warm Springs Tribe Total</b>					<b>75,000</b>				

### Hatchery Releases Next Two Weeks - Continued

Washington Dept. of Fish and Wildlife	Eastbank Hatchery	CH1	SU	2009	462,000	04-15-09	04-30-09	Dryden Acclim Pond	Wenatchee River
Washington Dept. of Fish and Wildlife	Eastbank Hatchery	CH1	SU	2009	520,000	04-15-09	05-07-09	Similkameen Acclim Pd	Okanogan River
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	ST	SU	2009	44,000	04-15-09	04-30-09	Baileysburg Bridge	Touchet River
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	ST	SU	2009	60,000	04-15-09	04-30-09	Lyons Ferry Hatchery	Snake River
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	ST	SU	2009	85,000	04-15-09	04-30-09	Dayton Acclim Pond	Touchet River
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	ST	SU	2009	100,000	04-15-09	04-30-09	Tucannon River	Tucannon River
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	ST	SU	2009	100,000	04-15-09	04-30-09	Walla Walla River Cottonwood Acclim	Walla Walla River
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	ST	SU	2009	168,000	04-01-09	04-30-09	Pond	Grande Ronde River
Washington Dept. of Fish and Wildlife	Methow Hatchery	CH1	SP	2009	58,000	04-15-09	04-30-09	Twisp Acclim Pond	Methow River
Washington Dept. of Fish and Wildlife	Methow Hatchery	CH1	SP	2009	122,000	04-15-09	04-30-09	Methow River	Methow River
Washington Dept. of Fish and Wildlife	Methow Hatchery	CH1	SP	2009	131,000	04-15-09	04-30-09	Chewuch Acclim Pond	Methow River
Washington Dept. of Fish and Wildlife	Methow Hatchery	CH1	SU	2009	434,000	04-15-09	04-30-09	Carlton Acclim Pond Ringold Springs	Methow River
Washington Dept. of Fish and Wildlife	Ringold Springs Hatchery	ST	SU	2009	180,000	04-14-09	04-24-09	Hatchery	Mid-Columbia River
Washington Dept. of Fish and Wildlife	Skamania Hatchery	ST	SU	2009	24,000	04-15-09	05-01-09	White Salmon River	White Salmon River
Washington Dept. of Fish and Wildlife	Skamania Hatchery	ST	WI	2009	20,000	04-15-09	05-01-09	White Salmon River	White Salmon River
Washington Dept. of Fish and Wildlife	Tucannon Hatchery	CH1	SP	2009	55,000	04-01-09	04-21-09	Curl Lake Acclim Pond	Tucannon River
Washington Dept. of Fish and Wildlife	Tucannon Hatchery	CH1	SP	2009	59,000	04-01-09	04-21-09	Curl Lake Acclim Pond	Tucannon River
Washington Dept. of Fish and Wildlife	Turtle Rock Hatchery	CH1	SU	2009	116,000	04-15-09	05-15-09	Chelan Falls	Mid-Columbia River
Washington Dept. of Fish and Wildlife	Turtle Rock Hatchery	ST	SU	2009	11,000	04-15-09	05-15-09	Chiwawa River	Wenatchee River
Washington Dept. of Fish and Wildlife	Turtle Rock Hatchery	ST	SU	2009	30,500	04-15-09	05-15-09	Chiwawa River	Wenatchee River
Washington Dept. of Fish and Wildlife	Turtle Rock Hatchery	ST	SU	2009	50,000	04-15-09	05-15-09	Wenatchee River	Wenatchee River
Washington Dept. of Fish and Wildlife	Turtle Rock Hatchery	ST	SU	2009	50,500	04-15-09	05-15-09	Wenatchee River	Wenatchee River
Washington Dept. of Fish and Wildlife	Turtle Rock Hatchery	ST	SU	2009	68,000	04-15-09	05-15-09	Wenatchee River	Wenatchee River
Washington Dept. of Fish and Wildlife	Turtle Rock Hatchery	ST	SU	2009	117,000	04-15-09	05-15-09	Nason Creek	Wenatchee River
Washington Dept. of Fish and Wildlife	Wells Hatchery	CH1	SU	2009	318,000	04-13-09	05-15-09	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	130,000	04-20-09	05-31-09	Okanogan River	Okanogan River
<b>Washington Dept. of Fish and Wildlife Total</b>					<b>3,733,000</b>				
Yakama Tribe	Cle Elem Hatchery	CH1	SP	2009	251,067	03-16-09	05-15-09	Jack Creek Acclim Pond	Yakima River
Yakama Tribe	Cle Elem Hatchery	CH1	SP	2009	254,889	03-16-09	05-15-09	Easton Pond	Yakima River
Yakama Tribe	Cle Elem Hatchery	CH1	SP	2009	266,044	03-16-09	05-15-09	Clark Flat Acclim Pond	Yakima River
Yakama Tribe	Eagle Creek NFH	CO	UN	2009	50,000	04-06-09	05-15-09	Boone Pond	Yakima River
Yakama Tribe	Eagle Creek NFH	CO	UN	2009	72,000	04-06-09	05-15-09	Easton Pond	Yakima River
Yakama Tribe	Eagle Creek NFH	CO	UN	2009	97,000	04-06-09	05-15-09	Lost Creek Acclim Pond	Yakima River
Yakama Tribe	Eagle Creek NFH	CO	UN	2009	150,000	04-06-09	05-15-09	Holmes Pond	Yakima River
Yakama Tribe	Eagle Creek NFH	CO	UN	2009	170,000	04-06-09	05-15-09	Stiles Pond	Yakima River
Yakama Tribe	Entiat Hatchery	CO	UN	2009	183,231	04-20-09	04-20-09	Icicle Creek	Wenatchee River
Yakama Tribe	Prosser Acclim. Pond	CH0	FA	2009	500,000	04-24-09	04-24-09	Prosser Acclim Pond	Yakima River
Yakama Tribe	Prosser Acclim. Pond	CH0	FA	2009	1,200,000	04-30-09	04-30-09	Prosser Acclim Pond	Yakima River
Yakama Tribe	Prosser Acclim. Pond	CO	UN	2009	37,659	04-06-09	05-15-09	Easton Pond	Yakima River
Yakama Tribe	Prosser Acclim. Pond	CO	UN	2009	68,473	04-06-09	05-15-09	Lost Creek Acclim Pond	Yakima River
Yakama Tribe	Prosser Acclim. Pond	CO	UN	2009	73,217	04-06-09	05-15-09	Holmes Pond	Yakima River
Yakama Tribe	Prosser Acclim. Pond	CO	UN	2009	74,124	04-06-09	05-15-09	Stiles Pond	Yakima River
Yakama Tribe	Prosser Acclim. Pond	CO	UN	2009	109,549	04-06-09	05-15-09	Prosser Acclim Pond	Yakima River
Yakama Tribe	Washougal Hatchery	CO	UN	2009	120,000	04-06-09	05-15-09	Prosser Acclim Pond	Yakima River
Yakama Tribe	Winthrop NFH	CO	UN	2009	286,213	04-15-09	04-30-09	Winthrop Hatchery	Methow River
<b>Yakama Tribe Total</b>					<b>3,963,466</b>				
<b>Grand Total</b>					<b>18,232,082</b>				

CH = Chinook, ST = Steelhead, CO = Coho, SO = Sockeye, CT = Cutthroat Trout, CM = Chum

## 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>		#
	<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>	
4/3	97	97	97	23	104	105	105	23	104	104	105	24	103	104	104	23	103	103	104	24
4/4	95	96	96	20	103	104	104	20	103	103	103	24	103	103	104	20	102	103	104	24
4/5	95	95	96	10	103	105	105	24	103	103	103	24	103	104	104	24	101	102	102	24
4/6	96	96	97	17	104	105	105	24	103	104	104	24	104	106	106	24	102	103	103	24
4/7	97	97	97	24	105	106	107	24	104	105	106	24	105	105	106	24	104	105	106	24
4/8	98	99	99	21	106	107	107	20	106	106	107	21	104	105	105	20	106	107	107	24
4/9	99	100	101	24	105	106	106	23	105	105	106	24	101	101	102	23	107	108	108	24
4/10	100	101	102	24	105	106	107	24	105	106	106	24	103	104	105	24	106	106	107	24
4/11	100	101	102	24	105	105	106	24	105	106	106	24	103	105	106	24	105	105	106	24
4/12	100	100	101	24	105	105	105	24	105	105	105	24	104	106	106	24	105	105	105	24
4/13	100	101	101	24	105	106	106	24	105	105	106	24	106	106	107	24	105	105	105	24
4/14	100	101	102	24	106	107	107	24	105	105	106	24	106	106	107	24	105	105	105	24
4/15	100	100	101	24	106	106	107	23	105	106	107	24	106	106	106	23	105	105	105	24
4/16	100	100	101	24	105	106	106	23	105	106	106	24	106	106	106	23	104	104	104	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>		#
	<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>	
4/3	105	105	106	24	103	104	105	24	103	103	104	24	105	105	105	24	103	103	104	24
4/4	103	103	104	24	104	105	105	24	103	104	104	24	105	105	105	24	103	103	103	24
4/5	102	103	104	24	105	106	106	24	104	104	105	24	104	104	104	24	103	103	103	24
4/6	103	105	106	24	105	106	107	24	105	105	106	24	104	104	105	24	103	104	104	24
4/7	106	107	108	24	107	108	109	24	106	107	108	24	106	106	107	24	104	105	105	24
4/8	107	108	109	24	107	108	108	24	107	107	107	24	108	108	108	24	106	106	106	24
4/9	107	108	109	24	107	107	108	23	106	107	107	23	107	108	108	24	105	105	106	24
4/10	106	106	107	24	107	108	109	24	107	108	109	24	107	107	107	24	105	105	105	24
4/11	105	105	106	24	107	108	108	24	106	107	108	24	107	107	107	24	104	105	105	24
4/12	104	105	106	24	107	107	107	24	105	105	105	24	107	107	107	24	104	105	105	24
4/13	104	105	106	24	106	107	108	24	104	105	105	24	107	107	107	24	104	105	105	24
4/14	104	104	104	24	108	109	114	24	104	104	105	24	107	107	107	24	105	105	105	24
4/15	104	105	106	24	106	107	108	24	104	104	105	24	106	107	107	24	104	104	105	24
4/16	103	104	105	24	107	107	108	24	104	105	105	24	107	108	108	24	104	105	106	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>		#
	<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>	
4/3	104	104	105	24	104	104	104	24	---	---	---	0	---	---	---	0	---	---	---	0
4/4	105	105	106	24	103	104	105	24	---	---	---	0	---	---	---	0	---	---	---	0
4/5	106	106	107	24	101	102	104	24	---	---	---	0	---	---	---	0	---	---	---	0
4/6	105	105	106	24	100	101	101	24	---	---	---	0	---	---	---	0	---	---	---	0
4/7	106	106	107	24	102	103	105	24	---	---	---	0	---	---	---	0	---	---	---	0
4/8	107	107	108	24	104	107	108	24	---	---	---	0	---	---	---	0	---	---	---	0
4/9	107	108	108	24	107	107	108	24	---	---	---	0	---	---	---	0	---	---	---	0
4/10	107	107	108	24	107	107	107	24	---	---	---	0	---	---	---	0	---	---	---	0
4/11	106	106	107	24	106	106	107	24	---	---	---	0	---	---	---	0	---	---	---	0
4/12	106	107	107	24	106	107	107	24	---	---	---	0	---	---	---	0	---	---	---	0
4/13	107	107	107	24	107	107	107	24	---	---	---	0	---	---	---	0	---	---	---	0
4/14	106	107	107	24	106	107	107	24	---	---	---	0	---	---	---	0	---	---	---	0
4/15	106	107	107	24	106	107	107	24	---	---	---	0	---	---	---	0	---	---	---	0
4/16	107	108	109	24	107	108	109	24	---	---	---	0	---	---	---	0	---	---	---	0

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

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

Date	Priest R. Dnst			Pasco			Dworshak			Clrwrtr-Peck			Anatone			#				
	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					
4/3	---	---	---	0	103	104	104	24	105	105	106	24	102	102	102	24	101	101	102	24
4/4	---	---	---	0	102	103	103	24	105	105	105	24	102	103	103	24	101	102	103	24
4/5	---	---	---	0	102	103	104	24	105	105	105	24	102	103	104	24	102	103	104	24
4/6	---	---	---	0	103	104	105	24	105	105	105	24	103	104	104	24	102	103	104	24
4/7	---	---	---	0	105	106	107	24	106	106	106	24	103	104	105	24	102	103	104	24
4/8	---	---	---	0	106	106	107	24	109	110	116	24	104	104	105	24	102	102	103	21
4/9	---	---	---	0	105	106	106	24	108	108	108	24	104	104	104	24	101	102	103	24
4/10	---	---	---	0	106	106	107	24	108	109	109	24	104	104	105	24	102	102	103	24
4/11	---	---	---	0	105	105	106	24	108	109	114	24	103	103	105	24	101	101	102	24
4/12	---	---	---	0	104	105	105	24	108	108	108	24	103	104	105	24	101	102	103	24
4/13	---	---	---	0	104	104	104	24	108	108	108	24	103	103	104	24	102	102	103	24
4/14	---	---	---	0	104	105	105	24	109	111	112	24	103	104	105	24	101	102	102	24
4/15	---	---	---	0	104	105	107	24	112	112	112	24	104	105	105	24	101	102	102	24
4/16	---	---	---	0	104	105	106	24	106	106	106	24	103	103	104	24	101	102	103	24

Total Dissolved Gas Saturation Data at Snake River Sites

Date	Clrwrtr-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						
	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High					
4/3	100	101	101	24	101	101	102	24	108	108	109	24	101	101	101	24	110	112	113	24
4/4	101	102	104	24	99	100	101	24	109	109	109	24	100	100	100	24	113	113	113	24
4/5	101	103	104	24	100	100	101	24	108	108	109	24	99	100	100	24	112	113	113	24
4/6	102	103	105	24	101	101	101	24	108	109	110	24	100	101	101	24	112	113	113	24
4/7	102	104	105	24	103	104	105	24	109	110	111	24	104	106	107	24	114	114	115	24
4/8	102	103	104	24	105	105	105	24	110	110	110	24	109	110	111	24	115	115	115	24
4/9	102	103	104	24	104	104	104	24	109	110	110	24	109	110	110	24	113	113	113	24
4/10	102	104	104	24	103	103	104	24	109	109	109	24	109	110	110	24	113	113	113	24
4/11	101	102	102	24	102	102	102	24	109	109	109	24	109	109	109	24	112	113	113	24
4/12	102	103	104	24	101	102	103	24	108	109	109	24	108	108	108	24	112	112	113	24
4/13	102	103	104	24	102	102	102	24	109	109	109	24	107	107	108	24	112	113	114	24
4/14	102	102	103	24	102	102	103	24	109	109	109	24	107	107	108	24	113	113	113	24
4/15	103	103	104	24	102	102	103	24	109	109	109	24	109	110	112	24	113	113	113	24
4/16	102	103	104	24	101	101	101	24	108	109	109	24	117	119	121	24	112	113	114	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						
	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High					
4/3	101	101	102	24	117	117	118	24	102	103	103	24	114	115	116	24	---	---	---	0
4/4	100	100	100	24	117	117	118	24	101	101	101	24	115	115	116	24	---	---	---	0
4/5	103	106	109	24	117	118	119	24	105	108	109	24	115	115	116	24	---	---	---	0
4/6	110	111	112	24	118	118	119	24	112	113	114	24	116	116	116	24	---	---	---	0
4/7	113	114	114	24	117	118	118	24	116	117	117	24	116	116	116	24	---	---	---	0
4/8	114	114	114	24	118	119	120	24	117	118	118	24	116	116	116	24	---	---	---	0
4/9	112	112	112	24	117	119	119	24	115	116	116	24	116	116	117	24	---	---	---	0
4/10	112	112	112	24	116	117	119	24	114	115	115	24	116	116	117	24	---	---	---	0
4/11	111	112	112	24	119	119	119	24	113	114	115	24	116	116	116	24	---	---	---	0
4/12	111	111	111	24	120	121	121	24	113	113	113	24	116	116	117	24	---	---	---	0
4/13	111	111	111	24	120	121	121	24	113	113	113	24	116	117	119	24	---	---	---	0
4/14	111	111	111	24	120	120	120	23	112	113	113	24	117	118	120	24	---	---	---	0
4/15	111	111	112	24	120	120	120	24	113	113	113	24	117	117	120	24	---	---	---	0
4/16	111	111	112	24	119	120	120	24	113	113	113	24	116	116	116	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>		<u>24h</u>	<u>12h</u>						
	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	AVG	High	hr
4/3	102	103	103	24	102	102	102	24	102	102	102	24	102	102	102	24	102	102	103	24
4/4	101	102	102	24	101	102	102	24	101	101	102	24	101	101	101	24	101	102	102	24
4/5	102	102	102	24	102	102	103	24	102	103	104	24	101	101	101	24	102	102	102	24
4/6	104	106	108	24	104	106	107	24	103	104	105	24	101	102	102	24	102	103	103	24
4/7	109	110	111	24	109	110	110	24	104	104	105	24	103	103	103	24	104	104	105	24
4/8	110	110	110	24	109	109	110	24	103	104	104	24	103	103	103	24	104	104	104	24
4/9	108	109	109	24	109	109	109	24	103	103	103	24	102	103	103	24	103	104	104	24
4/10	108	108	109	24	115	115	116	24	103	104	104	24	113	116	118	24	104	105	107	24
4/11	108	108	108	24	115	115	115	24	103	103	104	24	113	113	113	24	107	108	108	24
4/12	106	107	107	24	115	115	116	24	103	104	104	24	113	114	114	24	108	108	109	24
4/13	106	106	106	24	114	115	116	24	104	104	104	24	112	113	114	24	108	108	109	24
4/14	105	105	106	24	115	116	116	24	104	104	105	24	114	114	115	24	107	107	108	24
4/15	105	105	106	24	115	116	116	24	105	105	105	24	114	114	114	24	108	108	108	24
4/16	106	106	107	24	115	115	116	24	105	106	106	24	114	115	115	24	108	108	109	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>		<u>24h</u>	<u>12h</u>						
	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr
4/3	102	102	102	24	102	102	103	24	104	105	106	24	103	104	105	24	111	111	112	24
4/4	101	102	102	24	102	103	103	24	105	106	106	24	104	105	106	24	112	112	113	24
4/5	102	102	103	24	103	103	103	24	106	106	107	24	104	105	106	24	112	113	113	24
4/6	102	103	103	24	103	104	104	24	106	107	107	24	106	107	108	24	112	113	113	24
4/7	104	104	105	24	105	106	106	24	107	108	108	24	107	108	109	24	113	113	114	24
4/8	104	104	105	24	105	105	105	24	107	108	108	24	106	107	107	24	111	112	113	24
4/9	103	103	104	24	104	104	104	24	106	107	107	24	106	107	108	24	112	113	113	24
4/10	110	111	112	24	104	104	104	24	112	113	113	24	107	109	111	24	117	118	118	24
4/11	113	113	114	24	105	107	108	24	112	113	113	24	109	109	110	24	118	118	118	24
4/12	114	114	115	24	110	111	112	24	114	114	114	24	110	111	112	24	119	119	120	24
4/13	113	113	114	24	111	111	111	24	114	114	115	24	111	112	112	24	118	118	119	24
4/14	113	114	114	24	110	111	111	24	114	114	115	24	111	112	113	24	119	119	120	24
4/15	114	114	115	24	110	110	110	24	113	113	114	24	111	112	113	24	119	120	120	24
4/16	114	114	115	24	110	111	112	24	114	114	115	15	112	114	115	24	118	119	119	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)
04/03/2009	111	297	144	9	3,565	50	9	1	---	125	99
04/04/2009	754	479	120	32	3,445	52	5	0	---	100	122
04/05/2009	805	452	285	23	5,289	54	18	0	---	200	111
04/06/2009	1,230	2,115	430	28	6,158	74	52	0	---	260	106
04/07/2009	816	3,028	344	13	4,066	189	57	0	---	410	204
04/08/2009	315	1,259	271	10	4,293	355	146	1	---	340	307
04/09/2009	450	3,867	223	46	5,286	521	1,248	1	200	435	323
04/10/2009	825	2,631	159	215	8,126	897	1,058	1	---	464	591
04/11/2009	965	1,937	183	102	10,028	2,668	54	0	878	587	871
04/12/2009	2,233	1,388	217	139	15,387	4,629	578	0	---	967	954
04/13/2009	1,797	1,017	444	211	17,262	5,039	462	0	1,453	1,646	1,755
04/14/2009	2,623	1,463	358	402	13,146	9,787	915	3	---	1,498	5,904
04/15/2009	4,267	2,362	2,830	155	13,685	12,378	278	4	5,118	2,336	16,005
04/16/2009	2,244	1,873	518	85	19,161	11,381	400	4	---	2,144	26,211
04/17/2009	---	---	---	---	---	---	---	---	---	---	---
<b>Total:</b>	<b>19,435</b>	<b>24,168</b>	<b>6,526</b>	<b>1,470</b>	<b>128,897</b>	<b>48,074</b>	<b>5,280</b>	<b>15</b>	<b>7,649</b>	<b>11,512</b>	<b>53,563</b>
<b># Days:</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>4</b>	<b>14</b>	<b>14</b>
<b>Average:</b>	<b>1,388</b>	<b>1,726</b>	<b>466</b>	<b>105</b>	<b>9,207</b>	<b>3,434</b>	<b>377</b>	<b>1</b>	<b>1,912</b>	<b>822</b>	<b>3,826</b>
<b>YTD</b>	<b>30,581</b>	<b>40,110</b>	<b>8,374</b>	<b>1,614</b>	<b>133,297</b>	<b>36,732</b>	<b>5,299</b>	<b>16</b>	<b>7,649</b>	<b>11,877</b>	<b>64,151</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)
04/03/2009	0	0	0	18	11	0	0	0	---	0	440
04/04/2009	0	0	0	8	0	0	0	3	---	0	558
04/05/2009	0	0	0	4	242	0	0	5	---	0	707
04/06/2009	0	0	0	3	0	0	0	5	---	0	793
04/07/2009	0	0	0	2	29	0	0	12	---	5	402
04/08/2009	0	0	0	2	30	0	0	17	---	0	359
04/09/2009	0	2	0	8	422	0	0	11	20	0	428
04/10/2009	0	0	0	20	0	0	0	18	---	0	486
04/11/2009	0	0	0	13	455	0	0	13	0	0	1,124
04/12/2009	0	3	0	12	374	0	0	8	---	0	1,714
04/13/2009	0	0	0	6	132	57	0	7	34	0	1,699
04/14/2009	0	0	0	4	64	0	0	3	---	0	120,929
04/15/2009	0	0	0	0	450	0	0	25	51	0	871,950
04/16/2009	0	0	0	2	0	0	0	4	---	0	104,842
04/17/2009	---	---	---	---	---	---	---	---	---	---	---
<b>Total:</b>	<b>0</b>	<b>5</b>	<b>0</b>	<b>102</b>	<b>2,209</b>	<b>57</b>	<b>0</b>	<b>131</b>	<b>105</b>	<b>5</b>	<b>1,106,431</b>
<b># Days:</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>4</b>	<b>14</b>	<b>14</b>
<b>Average:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>7</b>	<b>158</b>	<b>4</b>	<b>0</b>	<b>9</b>	<b>26</b>	<b>0</b>	<b>79,031</b>
<b>YTD</b>	<b>0</b>	<b>5</b>	<b>13</b>	<b>183</b>	<b>2,269</b>	<b>57</b>	<b>0</b>	<b>134</b>	<b>105</b>	<b>10</b>	<b>1,121,699</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)
04/03/2009	*	0	0	0	0	0	0	0	---	5	50
04/04/2009	*	0	0	0	0	0	0	0	---	0	36
04/05/2009		0	0	0	0	15	0	0	---	5	88
04/06/2009		0	0	0	0	0	0	0	---	0	37
04/07/2009		0	0	0	0	29	0	0	1	---	92
04/08/2009		0	0	0	0	0	0	0	---	0	96
04/09/2009	*	0	0	0	0	0	0	0	1	30	112
04/10/2009	*	0	0	0	3	0	0	0	4	---	156
04/11/2009		0	0	0	2	27	0	0	3	51	704
04/12/2009	*	0	0	0	4	0	0	0	1	---	862
04/13/2009	*	0	0	0	0	0	0	0	2	68	1,767
04/14/2009	*	0	0	0	1	0	0	0	2	---	3,439
04/15/2009	*	0	0	0	0	64	0	1	1	186	3,480
04/16/2009	*	0	0	0	0	65	0	0	1	---	4,547
04/17/2009		---	---	---	---	---	---	---	---	---	---
<b>Total:</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>10</b>	<b>200</b>	<b>0</b>	<b>1</b>	<b>16</b>	<b>335</b>	<b>15,466</b>
<b># Days:</b>		<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>4</b>	<b>14</b>	<b>14</b>
<b>Average:</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>14</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>84</b>	<b>1,105</b>
<b>YTD</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>11</b>	<b>200</b>	<b>0</b>	<b>1</b>	<b>16</b>	<b>335</b>	<b>15,776</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)
04/03/2009	*	0	69	2	0	812	85	0	1	---	7
04/04/2009	*	4	89	1	8	835	94	0	---	40	24
04/05/2009		3	48	2	2	741	95	15	1	---	14
04/06/2009		13	53	1	1	1,141	192	61	5	---	0
04/07/2009		22	32	1	4	643	354	40	0	---	34
04/08/2009		12	155	7	5	888	229	47	4	---	223
04/09/2009	*	33	2,006	32	18	1,209	653	50	4	141	458
04/10/2009	*	19	874	12	48	1,368	819	19	7	---	463
04/11/2009		24	653	41	32	2,888	1,053	16	3	894	296
04/12/2009	*	19	776	27	69	5,022	1,327	45	2	---	205
04/13/2009	*	18	351	35	35	7,672	1,346	40	0	911	146
04/14/2009	*	34	785	108	68	12,082	4,236	110	3	---	48
04/15/2009	*	47	541	402	100	16,833	8,944	57	1	1,892	0
04/16/2009	*	24	266	243	49	18,507	6,156	202	4	---	535
04/17/2009		---	---	---	---	---	---	---	---	---	---
<b>Total:</b>		<b>272</b>	<b>6,698</b>	<b>914</b>	<b>439</b>	<b>70,641</b>	<b>25,583</b>	<b>702</b>	<b>35</b>	<b>3,838</b>	<b>2,453</b>
<b># Days:</b>		<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>4</b>	<b>14</b>	<b>14</b>
<b>Average:</b>		<b>19</b>	<b>478</b>	<b>65</b>	<b>31</b>	<b>5,046</b>	<b>1,827</b>	<b>50</b>	<b>3</b>	<b>960</b>	<b>175</b>
<b>YTD</b>		<b>273</b>	<b>6,793</b>	<b>943</b>	<b>461</b>	<b>71,801</b>	<b>19,491</b>	<b>709</b>	<b>35</b>	<b>3,838</b>	<b>2,596</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)
04/03/2009 *	0	0	0	0	121	26	1	0	---	0	0
04/04/2009 *	0	0	0	0	164	17	0	0	---	0	0
04/05/2009	0	0	0	0	332	43	15	0	---	0	0
04/06/2009	0	0	0	0	190	155	5	0	---	5	0
04/07/2009	0	0	0	0	263	143	13	0	---	5	0
04/08/2009	0	0	0	0	59	103	29	0	---	0	0
04/09/2009 *	0	0	0	0	197	86	11	0	20	0	0
04/10/2009 *	0	0	0	0	80	104	10	0	---	0	0
04/11/2009	0	0	0	0	187	172	3	0	68	0	10
04/12/2009 *	0	0	0	0	321	172	7	0	---	7	0
04/13/2009 *	0	0	0	0	132	229	5	0	119	0	0
04/14/2009 *	0	0	0	0	322	172	12	0	---	0	0
04/15/2009 *	0	0	0	0	514	429	7	0	169	7	0
04/16/2009 *	0	0	0	0	327	143	8	0	---	26	0
04/17/2009	---	---	---	---	---	---	---	---	---	---	---
<b>Total:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3,209</b>	<b>1,994</b>	<b>126</b>	<b>0</b>	<b>376</b>	<b>50</b>	<b>10</b>
<b># Days:</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>4</b>	<b>14</b>	<b>14</b>
<b>Average:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>229</b>	<b>142</b>	<b>9</b>	<b>0</b>	<b>94</b>	<b>4</b>	<b>1</b>
<b>YTD</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3,749</b>	<b>1,858</b>	<b>127</b>	<b>0</b>	<b>376</b>	<b>55</b>	<b>14</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:

4/17/09 9:59 AM

		04/03/09 TO 04/17/09					Species
Site	Data	CH0	CH1	CO	ST	SO	Grand Total
<b>LGR</b>	Sum of NumberCollected	1,630	96,357	150	53,850	2,370	154,357
	Sum of NumberBarged	647	28,078	92	23,551	763	53,131
	Sum of NumberBypassed	974	68,235	58	30,299	1,582	101,148
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of SampleMorts	9	32	0	0	12	53
	Sum of FacilityMorts	0	12	0	0	13	25
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	9	44	0	0	25	78
<b>LGS</b>	Sum of NumberCollected	40	33,594		17,891	1,399	52,924
	Sum of NumberBarged	0	0		0	0	0
	Sum of NumberBypassed	40	33,575		17,882	1,394	52,891
	Sum of Numbertrucked	0	0		0	0	0
	Sum of SampleMorts	0	16		2	3	21
	Sum of FacilityMorts	0	3		7	2	12
	Sum of ResearchMorts	0	0		0	0	0
	Sum of TotalProjectMorts	0	19		9	5	33
<b>LMN</b>	Sum of NumberCollected		3,543	1	450	76	4,070
	Sum of NumberBarged		0	0	0	0	0
	Sum of NumberBypassed		3,505	1	439	74	4,019
	Sum of Numbertrucked		0	0	0	0	0
	Sum of SampleMorts		5	0	0	0	5
	Sum of FacilityMorts		0	0	0	0	0
	Sum of ResearchMorts		0	0	0	0	0
	Sum of TotalProjectMorts		5	0	0	0	5
<b>MCN</b>	Sum of NumberCollected	70	4,606	210	2,326	230	7,442
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	70	4,602	210	2,323	230	7,435
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of SampleMorts	0	4	0	0	0	4
	Sum of FacilityMorts	0	0	0	3	0	3
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	0	4	0	3	0	7
Total Sum of NumberCollected		1,740	138,100	361	74,517	4,075	218,793
Total Sum of NumberBarged		647	28,078	92	23,551	763	53,131
Total Sum of NumberBypassed		1,084	109,917	269	50,943	3,280	165,493
Total Sum of Numbertrucked		0	0	0	0	0	0
Total Sum of SampleMorts		9	57	0	2	15	83
Total Sum of FacilityMorts		0	15	0	10	15	40
Total Sum of ResearchMorts		0	0	0	0	0	0
Total Sum of TotalProjectMorts		9	72	0	12	30	123

### YTD Transportation Summary

Source: Fish Passage Center

Updated:

4/17/09 10:00 AM

TO: 04/17/09

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
<b>LGR</b>	Sum of NumberCollected	1,690	100,757	150	2,910	55,010	160,517
	Sum of NumberBarged	647	28,078	92	763	23,551	53,131
	Sum of NumberBypassed	1,034	72,633	58	2,121	31,459	107,305
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	9	34	0	13	0	56
	Sum of FacilityMorts	0	12	0	13	0	25
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	9	46	0	26	0	81
<b>LGS</b>	Sum of NumberCollected	40	33,633		1,406	17,955	53,034
	Sum of NumberBarged	0	0		0	0	0
	Sum of NumberBypassed	40	33,612		1,401	17,938	52,991
	Sum of NumberTrucked	0	0		0	0	0
	Sum of SampleMorts	0	18		3	3	24
	Sum of FacilityMorts	0	3		2	14	19
	Sum of ResearchMorts	0	0		0	0	0
	Sum of TotalProjectMorts	0	21		5	17	43
<b>LMN</b>	Sum of NumberCollected		3,562	1	77	457	4,097
	Sum of NumberBarged		0	0	0	0	0
	Sum of NumberBypassed		3,524	1	75	446	4,046
	Sum of NumberTrucked		0	0	0	0	0
	Sum of SampleMorts		5	0	0	0	5
	Sum of FacilityMorts		0	0	0	0	0
	Sum of ResearchMorts		0	0	0	0	0
	Sum of TotalProjectMorts		5	0	0	0	5
<b>MCN</b>	Sum of NumberCollected	70	4,606	210	230	2,326	7,442
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	70	4,602	210	230	2,323	7,435
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	0	4	0	0	0	4
	Sum of FacilityMorts	0	0	0	0	3	3
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	0	4	0	0	3	7
Total Sum of NumberCollected		1,800	142,558	361	4,623	75,748	225,090
Total Sum of NumberBarged		647	28,078	92	763	23,551	53,131
Total Sum of NumberBypassed		1,144	114,371	269	3,827	52,166	171,777
Total Sum of NumberTrucked		0	0	0	0	0	0
Total Sum of SampleMorts		9	61	0	16	3	89
Total Sum of FacilityMorts		0	15	0	15	17	47
Total Sum of ResearchMorts		0	0	0	0	0	0
Total Sum of TotalProjectMorts		9	76	0	31	20	136

**Cumulative Adult Passage at Mainstem Dams Through: 04/16**

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	04/16	1421	7	8550	13	37242	120	0	0	0	0	0	0	0	0	0	0	0	0
TDA	04/16	589	2	4609	13	19678	43	0	0	0	0	0	0	0	0	0	0	0	0
JDA	04/15	142	4	1953	7	10597	9	0	0	0	0	0	0	0	0	0	0	0	0
MCN	04/16	99	1	480	5	6943	18	0	0	0	0	0	0	0	0	0	0	0	0
IHR	04/16	55	2	128	1	3993	3	0	0	0	0	0	0	0	0	0	0	0	0
LMN	04/15	31	0	21	0	1817	0	0	0	0	0	0	0	0	0	0	0	0	0
LGS	04/15	18	0	7	0	1090	5	0	0	0	0	0	0	0	0	0	0	0	0
LGR	04/16	3	0	10	0	747	0	0	0	0	0	0	0	0	0	0	0	0	0
PRD	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RIS	04/15	0	0	1	0	24	0	0	0	0	0	0	0	0	0	0	0	0	0
RRH	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WEL	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WFA	04/15	178	0	78	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	0	0	0	1471	1331	1581	517
TDA	0	0	0	0	0	0	0	0	0	796	734	710	331
JDA	0	0	0	0	0	0	0	0	0	1585	1610	1765	839
MCN	0	0	0	0	0	0	0	0	0	1476	1476	1269	607
IHR	0	0	0	0	0	0	-1	0	0	2159	2190	1592	677
LMN	0	0	0	0	0	0	0	0	0	2713	2119	1558	1025
LGS	0	0	0	0	0	0	0	0	0	2997	1111	1553	946
LGR	0	0	0	0	0	0	0	0	0	8487	5873	6898	2182
PRD	0	0	0	0	0	0	0	0	0	0	0	0	0
RIS	0	0	0	0	0	0	0	0	0	7	14	4	0
RRH	0	0	0	0	0	0	0	0	0	28	39	13	0
WEL	0	0	0	0	0	0	0	0	0	0	0	0	0
WFA	0	0	0	0	0	-	-	0	0	2528	4474	-	-

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: 03/27/09

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