



Fish Passage Center

Weekly Report #09 - 05

April 10, 2009

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Summary of Events:

Water Supply: Precipitation throughout the Columbia Basin has varied between 95% and 149% of average at individual sub-basins over March. Precipitation above The Dalles has been 127% of average over March. Over the entire water year, precipitation has generally been near average.

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

Location	Water Year 2009 March 1-30		Water Year 2009 October 1, 2008 to March 30, 2009	
	Observed (inches)	% Average	Observed (inches)	% Average
Columbia Above Coulee	2.12	122	13.54	95
Snake River Above Ice Harbor	2.06	129	10.76	105
Columbia Above The Dalles	2.36	127	14.02	99
Kootenai	2.07	120	13.03	90
Clark Fork	1.76	152	10.62	119
Flathead	2.06	131	11.96	99
Pend Oreille/ Spokane	3.22	120	18.41	92
Central Washington	0.97	121	5.19	88
Snake River Plain	1.04	95	5.79	95
Salmon/Boise/ Payette	2.57	137	11.33	89
Clearwater	4.05	149	21.35	115
SW Washington Cascades/Cowlitz	7.10	104	46.41	87
Willamette Valley	6.14	99	36.34	81

Snowpack within the Columbia Basin has generally increased over the past month.

Average snowpack in the Columbia River for the Snake River above Palisades is 103% of average, for the Clearwater and Salmon Basins the average snowpack is 98% of average, and for lower Columbia Basins between McNary and Bonneville Dam average snowpack is 176% 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

Grand Coulee Reservoir is at 1280.4 feet (4-09-09) and has drafted 1.0 foot in the last week. The Grand Coulee flood control elevation is tied to the runoff volume forecast at The Dalles Dam. Recent increases in runoff volume in the Snake Basin, as well as in basins above Grand Coulee, have resulted in a higher runoff forecast at The Dalles causing a lower flood control elevation at Grand Coulee. The end of April FC elevation is now expected to be between 1256 and 1258 feet and flow from Grand Coulee is expected to increase as the project is drafted to the end of April flood control elevation. Outflows at Grand Coulee have ranged between 31.2 and 87.2 Kcfs over the last week.

The Libby Reservoir is currently at elevation 2402.8 feet (4-09-09) and drafted 0.5 feet last week. The end of April elevation at Libby is 2434.2 feet, therefore Libby is currently 31.4 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 3508.1 ft (4-09-09) and has drafted 0.4 feet last week. Outflows at Hungry Horse have been 0.47–3.1 Kcfs last week; Hungry Horse has been operating to Columbia Falls Minimum outflows. As of today the Hungry Horse end of April FC elevation is not available.

Dworshak is currently at an elevation of 1530.8 feet (4-09-09) and drafted 7.5 feet last week. Outflows ranged between 13.3 and 14.9 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 project will likely not make the April 15 flood control elevation and may need to exceed the end of April flood control elevation, as the draft curve is likely to intercept the refill to June 30 full elevation curve.

The Brownlee Reservoir was at an elevation of 2052.3 feet on April 9th, 2009, drafting 5.0 feet last week. The end of April FC elevation is not yet available, but is expected to go up based on the runoff volume forecast. Outflows at Brownlee Dam have been 14.5 to 21.9 Kcfs over the last week.

Spill:

Flows were increased at Dworshak Dam in response to the latest runoff volume forecast. Spill is now exceeding 4 Kcfs and is expected to be between 4 and 5 Kcfs 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 was initially increased on 4/06, but was decreased on 4/13 and again on 4/15 based on the Ice Harbor Dam forebay TDG reading; however, the tailrace readings at Lower Monumental Dam are well below the waiver limits. 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.

The 2009 spill program began at the lower Columbia River projects at 0001 hours on April 10th. 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

Adult Fish Passage:

The historical counting schedule at Bonneville began March 15th and continues through November 15th. This counting schedule allows for comparison of current year counts with historical data. The historical counting schedule began on March 1st at Lower Granite Dam. Counting began on April 1st for The Dalles Dam, John Day Dam, McNary Dam, Lower Monumental Dam, and Little Goose Dam. Willamette Falls Dam counts adult salmon throughout the entire year.

Adult counts at Bonneville Dam have been updated through April 9th. Daily adult spring Chinook counts at Bonneville Dam ranged from 42 to 130 adult salmon per day. Between March 15th and April 9th,

714 spring Chinook have been counted at Bonneville Dam. In 2008, 910 adult spring Chinook were counted at Bonneville Dam for the same time period. The 2009 adult spring Chinook count at Bonneville Dam is 78.5% of the 2008 count. The Bonneville spring Chinook adult count is only about 4.6% of the 10 year average of 15343. At Willamette Falls Dam 46 adult spring Chinook have been counted so far this year. At The Dalles Dam the 2009 adult spring Chinook is 212 and at McNary Dam 27 adult spring Chinook have been counted.

The Bonneville Dam 2009 steelhead count of 1065 is about 1.1 times greater than the 2008 count of 958. The 2009 steelhead count is about 85.5% of the 10-year average of 1245. 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 204 to 294 adults per day last week. This year's Lower Granite steelhead count of 6732 is 1.35 times greater than the 2008 count of 4965 and 1.1 times greater than the 10 year average of 6106. The 2009 wild steelhead count as of April 9th was 1585. At Willamette Falls Dam, the 2009 count for steelhead was 2209, as of April 7th. This year's steelhead count is only about 62.1% of the 2008 count of 3357 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 for the period of March 1st to April 10th. The corner collector was opened on April 3rd. Three adult salmon were bypassed on March 15th. From March 15th to April 6th, daily adult steelhead by passed counts ranged from 1 to 6. A total of 65 adult steelhead and 2 adult Chinook have been bypassed. Additionally, 4 unknown adult salmonids have been bypassed between March 15th and April 6th.

Stansell et al. reported that as of April 3rd, 24 California sea lions and 25 Steller sea lions have been counted at Bonneville Dam. The highest daily abundance of sea lions at Bonneville Dam occurred on March 26th when 42 sea lions were observed at the dam. Sea lion trapping began on March 10th. Eight sea lions were trapped this week. Two sea lions were tagged and released. Up to five of the sea lions will be sent to Gladys Porter Zoo in Texas, depending on the results of their health exam. 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 3rd.

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/update20090403.pdf>.

Smolt Monitoring:

Sampling for smolt monitoring has begun at all sites, including McNary Dam, where installation of screens has begun and should be completed by early next week. Large numbers of hatchery origin yearling Chinook are passing the traps this week reflecting the passage of large releases from tributary hatcheries.

The Salmon River Trap, operated by Idaho Department of Fish and Game, has been capturing large numbers of hatchery yearling Chinook over the past two weeks as recent hatchery releases pass down stream. On April 6 the trap collected 1,230 yearling Chinook, nearly all of which were clipped fish. Flows in the Salmon River have passed the historic median of 8 Kcfs for this time period as of April 10, and are near 9 Kcfs as measured at USGS gage at Riggins, Idaho. Wild yearling Chinook collection numbers remained low but steady over the past week at the Salmon Trap. At the Imnaha River Trap, operated by the Nez Perce Tribe, large numbers of yearling Chinook were collected as acclimation released fish continued passing; collection of yearling Chinook was over 3,000 fish on April 7, with nearly all of those fish of hatchery origin. Flows in the Imnaha River have also increased above historic median the past few days. Flow reached over 900 cfs on April 8 compared to about a historic median for that data of 650 cfs as measured at the Imnaha gage. At the Grande Ronde Trap, operated by the Oregon Department of Fish and Wildlife, about 260 yearling Chinook per day were captured this past week. Most fish collected at the trap this week were hatchery origin fish, likely released from a volitional release out of the Lostine Acclimation facility that ended March 31. 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 10 Kcfs

compared to historic median of just over 5 Kcfs. The Lewiston Trap on the Snake River has been capturing small numbers of yearling and sub-yearling Chinook as well as steelhead. Flows are near historic median in the Snake River at Anatone for this time period. Flows fluctuated between 35 and 50 Kcfs this past week.

Sampling continued at Lower Granite, Little Goose and Lower Monumental dams in the Lower Snake River. In the earliest days of sampling at the sites holdover yearling Chinook had been collected in relatively large numbers. Over the past week of sampling at Lower Granite Dam hatchery origin yearling Spring/Summer Chinook have predominated. Increasing numbers of steelhead are also being collected at the Snake River sites; as have small numbers of sockeye and coho.

At Rock Island dam small numbers of all species have been collected. McNary Dam began sampling on April 9. The relatively late start date was due to a delayed installation of screens at the project. Fifteen lamprey were in the sample at McNary Dam on the first day of sampling which expands to an estimated 150 juvenile lamprey in the collection, given the sample rate of 10%. Sampling continued at John Day and Bonneville dams this past week. At Bonneville Dam relatively large numbers of subyearling Chinook have been captured over the past two weeks, with the daily index averaging around 500 fish per day this past week and over 1,000 per day over the previous week. Most of the subyearling Chinook captured continued to be fry (fish less than 60mm).

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. 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 1.67 million summer steelhead juveniles. Of these about 52% were scheduled for release into the Pahsimeroi River, 45% to the Salmon River, and 3% to the Imnaha River. No other releases of juvenile salmonids were planned begin in this zone over the past week.

Beginning in mid-April, about 442,000 yearling fall Chinook from Lyons Ferry Hatchery are scheduled to be released acclimation facilities on the Snake and Clearwater rivers, above Lower Granite Dam. Due to disease, the release of 142,000 yearling fall Chinook from Captain Johns Rapids acclimation facility began

early (April 3rd). The remaining releases of yearling fall Chinook (~300,000) above Lower Granite dam are still scheduled to begin on or around April 15th. In addition to these releases, approximately 450,000 yearling fall Chinook from Lyons Ferry were scheduled for direct release into the Snake River. This releases was scheduled to begin around April 1st and end around April 15th. Many releases of yearling spring Chinook that began weeks ago are scheduled to end over the next two weeks. In all, these earlier releases total about 1.72 million spring Chinook juveniles. In addition to these earlier releases, several releases of yearling spring Chinook juveniles to the Snake River Zone are scheduled to begin over the next two weeks. In all, these releases are expected to total nearly 1.51 million juveniles. Of these, approximately 73% are scheduled for release into tributaries of the Clearwater River, 19% to the Grande Rhonde River, and 8% to the Tucannon River. Finally, releases totaling nearly 4.0 million summer steelhead juveniles to the Snake River Zone are scheduled to begin over the next two weeks. Of these, about 52% are scheduled for release into the Clearwater River and its tributaries and 33% to are scheduled for release into the Salmon River and its tributaries. The remaining 14% will be split between the Wallowa (6%), Grande Rhonde (4%), Tucannon (2.5%), and Snake (1.5%) rivers.

Mid-Columbia Zone: The Mid-Columbia Zone encompasses the area of the Columbia River and its tributaries from McNary Dam to Chief Joseph Dam. Beginning today, just over 28,000 subyearling fall Chinook juveniles from Prosser Hatchery are scheduled for release into the Yakima River. In addition to these subyearlings, approximately 8,300 yearling fall Chinook were scheduled for release from Prosser Hatchery this week. All of the subyearling and yearling fall Chinook that were scheduled for release into the Yakima River this week are unmarked. The release of approximately 250,000 yearling spring Chinook from Carson NFH to the Walla Walla River was scheduled to end this week. The Yakama Tribal Program to re-establish Coho runs in the Yakima, Methow, and Wenatchee basins continued releasing this week. Several releases of coho juveniles to the Yakima River were scheduled to begin this week. In all, these releases total about 1.02 million juveniles and are expected to run through mid-May. Releases of coho juveniles to the Methow River are scheduled to begin on or around April 15th.

In addition to the 28,000 subyearling fall Chinook schedule for release into the Yakima River this

week, nearly 290,000 are scheduled for release in mid-April. Approximately 318,000 subyearling fall Chinook juveniles are scheduled for release into the Yakima River, beginning in mid-April. Also beginning in mid-April are several releases of yearling spring Chinook to the Methow River. In all, these spring Chinook releases are expected to total nearly 731,000 juveniles. Several of these releases are expected to run through the end of April. Nearly 2 million yearling summer Chinook are scheduled for release throughout this zone over the next two weeks. 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.

As mentioned above, the Yakama Tribal Program to re-establish Coho runs in the Methow basin is scheduled to begin on or around April 15th, 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 20th. 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 just over 1.1 million summer steelhead are anticipated to begin within the next two weeks. Of these, about 30% are scheduled for release into the Wenatchee River, 20% to the Methow River, 16% to the Mid-Columbia, and 13% to the Okanogan River. The remaining 21% will be split between the Touchet (12%) and Walla Walla (9%) rivers.

Lower Columbia Zone: The Lower Columbia Zone is defined as the Columbia River and its tributaries from Bonneville Dam to McNary Dam. Approximately 37,500 yearling spring Chinook juveniles from Round Butte Hatchery were scheduled for release into Hood River this week. In addition, about 500,000 coho juveniles from Cascade Hatchery were scheduled for release into the Umatilla River, beginning on or around April 5th. Finally, approximately 162,000 summer steelhead from Round Butte Hatchery were scheduled for release into the Deschutes River this week.

Beginning April 13th, approximately 7.75 million subyearling fall Chinook juveniles will be released into the Lower Columbia River Zone. 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 7.5 million juveniles to be released, 78% will be released from Spring Creek NFH and 22% will be released from Little White Salmon NFH. Volitional releases of yearling spring Chinook juveniles to the Deschutes and Umatilla rivers that began weeks ago are scheduled to end over the next couple of weeks. In all, these releases will total about 1.03 million spring Chinook juveniles, with 55% being released to the Deschutes and 45% being released to the Umatilla River. In addition to these earlier releases, nearly 1.64 million yearling spring Chinook are scheduled for release into this zone over the next two weeks. Of these, about 74% are scheduled for release into the Wind River and 25% are scheduled for release into the Little White Salmon River. A release of about 2.5 million coho to the Klickitat is scheduled to end next week (~April 15th). In addition, a release of about 500,000 coho juveniles to the Umatilla River is scheduled to end tomorrow (April 11th). Approximately 194,000 summer steelhead are scheduled for release to this zone over the next two weeks. 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 are scheduled for release into the White Salmon River, beginning on or around April 15th.

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
03/27/2009	96.3	0.0	94.6	0.0	93.8	0.0	90.0	0.0	91.4	0.0	88.8	0.0	84.8	0.0
03/28/2009	104.6	0.0	96.7	0.0	102.7	0.0	104.4	0.0	107.0	0.0	119.5	0.0	118.3	0.0
03/29/2009	63.8	0.0	67.9	0.0	71.7	0.0	73.3	0.0	76.4	0.0	83.7	0.0	84.1	0.0
03/30/2009	91.4	0.0	94.6	0.0	92.4	0.0	85.8	0.0	87.7	0.0	91.9	0.0	94.6	0.0
03/31/2009	108.7	0.0	113.3	0.0	117.8	6.3	118.3	13.5	113.0	0.0	104.0	10.6	95.1	6.5
04/01/2009	69.2	0.0	58.5	0.0	75.1	0.0	86.7	2.5	92.0	0.0	109.6	3.9	111.7	3.6
04/02/2009	43.2	0.0	57.1	0.0	52.4	0.0	47.2	0.0	47.8	0.0	51.4	0.0	65.4	0.0
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

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

Date	Dworshak		Hells Canyon		Lower Granite		Little Goose		Lower Monumental		Ice Harbor	
	Flow	Spill	Inflow	Outflow	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill
03/27/2009	1.6	0.0	13.9	16.2	44.9	0.0	39.1	0.0	41.6	0.0	43.7	0.0
03/28/2009	1.6	0.0	13.0	13.9	39.7	0.0	38.0	0.0	41.2	0.0	41.4	0.0
03/29/2009	1.6	0.0	13.0	11.6	43.7	0.0	48.7	0.0	51.9	0.0	52.9	0.0
03/30/2009	1.6	0.0	14.2	15.6	42.7	0.0	44.1	0.2	50.1	0.0	51.1	0.0
03/31/2009	2.5	0.0	12.9	11.3	54.6	0.0	50.1	0.0	56.5	0.0	53.1	0.0
04/01/2009	11.3	1.1	12.5	11.4	53.5	0.0	51.0	0.0	60.9	0.0	59.8	0.0
04/02/2009	14.0	3.6	13.2	15.5	58.7	0.0	58.5	0.1	64.2	0.0	68.3	0.1
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	---	---	79.8	20.6	79.7	23.8	85.1	25.2	88.4	59.5

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
03/27/2009	154.4	0.0	159.3	0.0	159.0	0.0	175.2	1.3	61.8	105.7
03/28/2009	146.8	0.0	144.8	0.0	144.6	0.0	152.3	1.3	42.2	102.3
03/29/2009	153.1	0.0	158.8	0.0	156.0	0.0	165.9	1.4	52.6	105.5
03/30/2009	169.8	0.1	176.3	0.0	179.7	0.0	197.8	1.3	74.4	115.7
03/31/2009	120.4	0.0	151.9	0.0	157.9	0.0	170.7	1.3	58.4	104.6
04/01/2009	156.2	0.0	159.1	0.0	150.9	0.0	160.6	1.3	48.6	104.2
04/02/2009	148.4	0.0	141.1	0.0	148.9	0.0	168.7	1.5	55.5	105.2
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

Hatchery Releases Last Two Weeks

Hatchery Release Summary

From: 3/27/2009 to 04/09/09

Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
Idaho Dept. of Fish and Game	Clearwater Hatchery	CH1	SP	2009	333,914	03-15-09	04-15-09	Lochsa River	Clearwater River M F
Idaho Dept. of Fish and Game	Clearwater Hatchery	CH1	SP	2009	404,155	03-15-09	04-15-09	Lochsa River	Clearwater River M F
Idaho Dept. of Fish and Game	Clearwater Hatchery	CH1	SP	2009	404,989	03-15-09	04-15-09	Red River	S Fk Clearwater River
Idaho Dept. of Fish and Game	Clearwater Hatchery	CH1	SP	2009	703,326	03-15-09	04-15-09	Crooked River	S Fk Clearwater River
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	31,221	04-09-09	04-09-09	Pahsimeroi River	Pahsimeroi River
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2009	126,091	04-08-09	04-09-09	Salmon River (ID)	Salmon River (ID)
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2009	218,101	04-06-09	04-08-09	Little Salmon River	Salmon River (ID)
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	275,000	04-01-09	04-08-09	Little Salmon River	Salmon River (ID)
Idaho Dept. of Fish and Game	Niagara Springs	ST	SU	2009	525,000	03-23-09	04-01-09	Hells Canyon Dam	Snake River
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	Pahsimeroi Hatchery	CH1	SU	2009	871,110	03-30-09	04-15-09	Pahsimeroi River	Pahsimeroi River
Idaho Dept. of Fish and Game	Rapid River Hatchery	CH1	SP	2009	2,500,000	03-16-09	04-02-09	Rapid River Hatchery	Little Salmon River
Idaho Dept. of Fish and Game Total					7,923,269				
Nez Perce Tribe	Clearwater Hatchery	CH1	SP	2009	399,953	03-15-09	04-15-09	Selway River	Clearwater River M F
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	Hagerman NFH	ST	SU	2009	40,000	04-06-09	04-06-09	Little Salmon River	Salmon River (ID)
Nez Perce Tribe	Hagerman NFH	ST	SU	2009	160,000	03-30-09	04-03-09	Little Salmon River	Salmon River (ID)
Nez Perce Tribe	Lookingglass Hatchery	CH1	SP	2009	61,800	03-31-09	03-31-09	Lostine Accim Pond	Wallowa River
Nez Perce Tribe	Lookingglass Hatchery	CH1	SP	2009	62,100	03-31-09	03-31-09	Lostine Accim Pond	Wallowa River
Nez Perce Tribe	Lookingglass Hatchery	CH1	SP	2009	124,500	03-18-09	03-31-09	Lostine Accim Pond	Wallowa River
Nez Perce Tribe	Lyons Ferry Hatchery	CH1	FA	2009	142,000	04-03-09	04-15-09	Cpt John Acclim Pond Nez Perce Tribal	Snake River
Nez Perce Tribe	Nez Perce Tribal Hatchery	CH1	SP	2009	133,000	04-01-09	04-15-09	Hatchery	Clearwater River M F
Nez Perce Tribe Total					1,429,607				
Oregon Dept. of Fish and Wildlife	Lookingglass Hatchery	CH1	SP	2009	150,000	04-01-09	04-14-09	Lookingglass Creek	Grande Ronde River
Oregon Dept. of Fish and Wildlife	Lookingglass Hatchery	CH1	SP	2009	294,500	03-31-09	04-15-09	Imnaha Acclim Pond	Imnaha River
Oregon Dept. of Fish and Wildlife	Oak Springs Hatchery	ST	SU	2009	12,400	04-01-09	04-01-09	Deschutes River	Deschutes River
Oregon Dept. of Fish and Wildlife	Round Butte Hatchery	ST	SU	2009	162,000	04-08-09	04-08-09	Deschutes River	Deschutes River
Oregon Dept. of Fish and Wildlife Total					618,900				
U.S. Fish and Wildlife Service	Hagerman NFH	ST	SU	2009	100,000	04-08-09	04-10-09	East Fk Salmon River Warm Springs	Salmon River (ID)
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 Total					670,000				
Umatilla Tribe	Carson NFH	CH1	SP	2009	250,000	04-01-09	04-08-09	Walla Walla River	Walla Walla River
Umatilla Tribe	Cascade Hatchery	CO	UN	2009	500,000	04-05-09	04-11-09	Pendelton Acclim Pond	Umatilla River
Umatilla Tribe	Umatilla Hatchery	CH1	SP	2009	460,000	03-02-09	04-15-09	Imeques Acclim Pond	Umatilla River
Umatilla Tribe Total					1,210,000				
Warm Springs Tribe	Round Butte Hatchery	CH1	SP	2009	37,500	04-09-09	04-09-09	W Fk Hood River	Hood River
Warm Springs Tribe Total					37,500				
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	168,000	04-01-09	04-30-09	Cottonwood Acclim Pond	Grande Ronde 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	Washougal Hatchery	CO	NO	2009	2,500,000	04-01-09	04-15-09	Klickitat River	Klickitat River
Washington Dept. of Fish and Wildlife Total					3,229,500				

Hatchery Releases Last Two Weeks - Continued

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	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	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 Total					1,832,891				
Grand Total					16,951,667				

Hatchery Releases Next Two Weeks

Hatchery Release Summary									
From:	4/10/2009		to		4/23/2009				
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	Okanogan River
Colville Tribe	Eastbank Hatchery	CH1	SU	2009	100,000	04-15-09	04-30-09	Bonaparte Acclimation Pond	Okanogan River
Colville Tribe Total					116,000				
Idaho Dept. of Fish and Game	Clearwater Hatchery	CH1	SP	2009	333,914	03-15-09	04-15-09	Lochsa River	Clearwater River M F
Idaho Dept. of Fish and Game	Clearwater Hatchery	CH1	SP	2009	404,155	03-15-09	04-15-09	Lochsa River	Clearwater River M F
Idaho Dept. of Fish and Game	Clearwater Hatchery	CH1	SP	2009	404,989	03-15-09	04-15-09	Red River	S Fk Clearwater River
Idaho Dept. of Fish and Game	Clearwater Hatchery	CH1	SP	2009	703,326	03-15-09	04-15-09	Crooked River	S Fk Clearwater River
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	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	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	93,000	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	04-11-09	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	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	Pahsimeroi Hatchery	CH1	SU	2009	871,110	03-30-09	04-15-09	Pahsimeroi River	Pahsimeroi River
Idaho Dept. of Fish and Game Total					5,209,856				
Nez Perce Tribe	Clearwater Hatchery	CH1	SP	2009	399,953	03-15-09	04-15-09	Selway River	Clearwater River M F
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	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
Nez Perce Tribe	Lyons Ferry Hatchery	CH1	FA	2009	142,000	04-03-09	04-15-09	Cpt John Acclim Pond	Snake River
Nez Perce Tribe	Lyons Ferry Hatchery	CH1	FA	2009	150,000	04-14-09	04-15-09	Pittsburg Landing	Snake River
Nez Perce Tribe	Lyons Ferry Hatchery	CH1	FA	2009	150,000	04-15-09	04-15-09	Acclim Pond	Snake River
Nez Perce Tribe	Lyons Ferry Hatchery	CH1	FA	2009	150,000	04-15-09	04-15-09	Big Canyon (Clearwater River)	Clearwater River M F
Nez Perce Tribe	Nez Perce Tribal Hatchery	CH1	SP	2009	133,000	04-01-09	04-15-09	Nez Perce Tribal Hatchery	Clearwater River M F
Nez Perce Tribe Total					1,511,207				
Oregon Dept. of Fish and Wildlife	Irrigon Hatchery Complex	ST	SU	2009	46,000	04-10-09	04-10-09	Big 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
Oregon Dept. of Fish and Wildlife	Irrigon Hatchery Complex	ST	SU	2009	258,000	04-14-09	04-14-09	Wallowa Acclim Pond	Wallowa River
Oregon Dept. of Fish and Wildlife	Lookingglass Hatchery	CH1	SP	2009	150,000	04-01-09	04-14-09	Lookingglass Creek	Grande Ronde River
Oregon Dept. of Fish and Wildlife	Lookingglass Hatchery	CH1	SP	2009	294,500	03-31-09	04-15-09	Imnaha Acclim Pond	Imnaha River
Oregon Dept. of Fish and Wildlife	Umatilla Hatchery	ST	SU	2009	50,000	04-16-09	04-16-09	Meacham Creek	Umatilla River
Oregon Dept. of Fish and Wildlife Total					954,500				
U.S. Fish and Wildlife Service	Carson NFH	CH1	SP	2009	1,218,277	04-15-09	04-15-09	Wind River	Wind River
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	100,000	04-08-09	04-10-09	East Fk Salmon River	Salmon River (ID)
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	Little White Salmon NFH	CH0	FA	2009	1,700,000	04-13-09	04-17-09	Little White Salmon Hatchery	Little White Salmon River
U.S. Fish and Wildlife Service	Spring Creek NFH	CH0	FA	2009	6,050,000	04-13-09	04-17-09	Spring Creek Hatchery	L Col R (D/s McN Dam)
U.S. Fish and Wildlife Service	Warm Springs NFH	CH1	SP	2009	570,000	03-20-09	04-20-09	Warm Springs Hatchery	Deschutes River
U.S. Fish and Wildlife Service	Willard Hatchery	CH1	SP	2009	420,000	04-16-09	04-16-09	Little White Salmon Hatchery	Little White Salmon River
U.S. Fish and Wildlife Service	Winthrop NFH	CH1	SP	2009	80,000	04-15-09	04-15-09	Winthrop Hatchery	Methow River
U.S. Fish and Wildlife Service	Winthrop NFH	CH1	SP	2009	340,000	04-15-09	04-15-09	Winthrop Hatchery	Methow River
U.S. Fish and Wildlife Service Total					12,769,277				

Hatchery Releases Next Two Weeks - Continued

Hatchery Release Summary									
From:					4/10/2009	to	4/23/2009		
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	Okanogan River
Colville Tribe	Eastbank Hatchery	CH1	SU	2009	100,000	04-15-09	04-30-09	Pond	Okanogan River
Colville Tribe Total					116,000				
Idaho Dept. of Fish and Game	Clearwater Hatchery	CH1	SP	2009	333,914	03-15-09	04-15-09	Lochsa River	Clearwater River M F
Idaho Dept. of Fish and Game	Clearwater Hatchery	CH1	SP	2009	404,155	03-15-09	04-15-09	Lochsa River	Clearwater River M F
Idaho Dept. of Fish and Game	Clearwater Hatchery	CH1	SP	2009	404,989	03-15-09	04-15-09	Red River	S Fk Clearwater River
Idaho Dept. of Fish and Game	Clearwater Hatchery	CH1	SP	2009	703,326	03-15-09	04-15-09	Crooked River	S Fk Clearwater River
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 Squaw Creek	Clearwater River M F
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	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	93,000	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	04-11-09	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	Pahsimeroi Hatchery	CH1	SU	2009	871,110	03-30-09	04-15-09	Pahsimeroi River	Pahsimeroi River
Idaho Dept. of Fish and Game Total					5,209,856				
Nez Perce Tribe	Clearwater Hatchery	CH1	SP	2009	399,953	03-15-09	04-15-09	Selway River	Clearwater River M F
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	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
Nez Perce Tribe	Lyons Ferry Hatchery	CH1	FA	2009	142,000	04-03-09	04-15-09	Cpt John Acclim Pond Pittsburg Landing	Snake River
Nez Perce Tribe	Lyons Ferry Hatchery	CH1	FA	2009	150,000	04-14-09	04-15-09	Acclim Pond Big Canyon (Clearwater	Snake River
Nez Perce Tribe	Lyons Ferry Hatchery	CH1	FA	2009	150,000	04-15-09	04-15-09	River) Nez Perce Tribal	Clearwater River M F
Nez Perce Tribe	Nez Perce Tribal Hatchery	CH1	SP	2009	133,000	04-01-09	04-15-09	Hatchery	Clearwater River M F
Nez Perce Tribe Total					1,511,207				
Oregon Dept. of Fish and Wildlife	Irrigon Hatchery Complex	ST	SU	2009	46,000	04-10-09	04-10-09	Big 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
Oregon Dept. of Fish and Wildlife	Irrigon Hatchery Complex	ST	SU	2009	258,000	04-14-09	04-14-09	Wallowa Acclim Pond	Wallowa River
Oregon Dept. of Fish and Wildlife	Lookingglass Hatchery	CH1	SP	2009	150,000	04-01-09	04-14-09	Lookingglass Creek	Grande Ronde River
Oregon Dept. of Fish and Wildlife	Lookingglass Hatchery	CH1	SP	2009	294,500	03-31-09	04-15-09	Imnaha Acclim Pond	Imnaha River
Oregon Dept. of Fish and Wildlife	Umatilla Hatchery	ST	SU	2009	50,000	04-16-09	04-16-09	Meacham Creek	Umatilla River
Oregon Dept. of Fish and Wildlife Total					954,500				

Hatchery Releases Next Two Weeks - Continued

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	Entiat Hatchery	CO	UN	2009	183,231	04-20-09	04-20-09	Icicle Creek	Wenatchee 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
Yakama Tribe Total					2,628,646				
Grand Total					31,237,986				

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>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>					
	<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>	<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>	<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>	<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>				
3/27	96	97	97	24	103	105	105	24	103	103	103	24	102	103	103	24	102	102	103	24
3/28	97	97	98	24	104	105	106	24	104	104	105	24	102	103	104	24	103	103	103	24
3/29	97	98	98	24	104	104	105	23	104	104	105	24	102	103	105	23	102	103	103	24
3/30	97	97	97	24	103	104	104	21	103	103	103	24	102	103	103	21	102	102	103	24
3/31	98	98	98	24	105	106	107	23	104	104	105	24	103	104	105	23	103	103	103	24
4/1	97	97	97	19	105	106	106	22	104	104	104	24	103	103	103	22	102	103	103	24
4/2	97	98	98	24	105	106	106	22	105	105	105	24	103	103	103	22	104	104	104	24
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

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>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>					
	<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>	<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>	<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>	<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>				
3/27	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
3/28	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
3/29	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
3/30	103	103	105	11	102	103	103	15	102	102	102	15	---	---	---	0	---	---	---	0
3/31	103	104	105	24	105	107	113	24	103	104	105	24	---	---	---	0	---	---	---	0
4/1	104	105	106	24	105	107	112	24	102	103	103	24	103	104	104	16	104	104	105	16
4/2	106	107	107	24	104	104	105	24	103	104	104	24	104	104	105	24	104	104	105	24
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

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>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>					
	<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>	<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>	<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>	<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>				
3/27	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
3/28	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
3/29	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
3/30	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
3/31	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
4/1	106	107	112	16	107	108	112	16	---	---	---	0	---	---	---	0	---	---	---	0
4/2	104	105	105	24	105	105	105	24	---	---	---	0	---	---	---	0	---	---	---	0
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

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	#					
	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High					
3/27	---	---	---	0	103	104	104	24	100	101	102	24	101	102	103	24	102	103	104	24
3/28	---	---	---	0	103	104	105	24	101	102	102	24	101	102	102	24	102	102	102	24
3/29	---	---	---	0	102	103	104	24	101	101	102	24	100	100	101	24	100	101	102	24
3/30	---	---	---	0	102	102	103	24	100	101	101	24	---	---	---	0	101	102	102	24
3/31	---	---	---	0	102	102	103	24	100	101	102	22	100	101	101	24	101	102	102	24
4/1	---	---	---	0	101	101	103	24	104	104	106	8	99	100	103	24	101	101	102	24
4/2	---	---	---	0	103	103	104	24	106	106	106	24	103	103	103	24	102	102	104	24
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

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	#					
	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High					
3/27	101	102	103	24	101	101	101	24	100	100	101	24	102	102	103	24	102	102	102	24
3/28	101	101	102	24	102	103	103	24	102	102	103	24	103	103	104	24	102	103	103	24
3/29	99	100	100	24	102	102	103	24	101	102	103	24	103	103	104	24	102	103	103	24
3/30	100	102	103	24	100	101	101	24	100	100	101	24	102	102	102	24	101	102	104	24
3/31	100	101	101	24	102	102	102	11	102	102	103	24	102	102	102	24	101	102	102	24
4/1	99	99	100	24	101	101	102	24	101	101	102	24	101	101	101	24	100	100	101	24
4/2	101	102	103	24	101	101	102	24	101	101	102	24	102	102	102	24	101	101	102	24
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

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					
3/27	104	104	104	24	104	104	104	24	103	103	103	24	103	103	103	24	---	---	---	0
3/28	105	105	106	24	105	105	106	24	104	105	105	24	104	104	105	24	---	---	---	0
3/29	104	105	106	24	104	105	105	24	104	104	105	24	104	104	104	24	---	---	---	0
3/30	103	103	104	24	102	103	103	24	103	103	104	24	103	103	103	24	---	---	---	0
3/31	103	103	103	24	102	103	103	24	104	104	105	24	104	104	105	24	---	---	---	0
4/1	102	102	102	24	102	102	102	24	103	104	104	24	103	103	104	24	---	---	---	0
4/2	103	103	103	24	102	103	103	24	104	104	104	24	104	104	104	24	---	---	---	0
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

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

Total Dissolved Gas Saturation Data at Lower Columbia River Sites

Date	<u>McNary-Wash</u>			<u>McNary Tlwr</u>			<u>John Day</u>			<u>John Day Tlwr</u>			<u>The Dalles</u>							
	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>#</u>					
	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	AVG	High	hr				
3/27	103	103	103	24	102	103	103	24	104	104	104	24	103	103	103	24	104	104	104	24
3/28	103	104	104	24	103	104	105	24	104	105	105	24	104	104	104	24	104	105	105	24
3/29	103	103	104	24	103	104	104	24	103	103	104	24	102	102	103	24	103	103	104	24
3/30	102	102	102	24	102	103	103	24	102	102	102	24	101	101	102	24	102	102	102	24
3/31	103	103	103	24	103	103	104	24	103	103	103	24	102	102	102	24	103	103	103	24
4/1	102	103	103	24	102	103	103	24	102	103	103	24	102	102	103	24	102	102	103	24
4/2	103	103	104	24	103	103	103	24	103	103	104	24	103	103	103	24	103	103	104	24
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

Total Dissolved Gas Saturation Data at Lower Columbia River Sites

Date	<u>The Dalles Dnst</u>			<u>Bonneville</u>			<u>Warrendale</u>			<u>Camas\Washougal</u>			<u>Cascade Island</u>							
	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>#</u>					
	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr				
3/27	104	104	104	24	104	104	104	24	104	105	105	24	104	105	105	24	107	108	109	24
3/28	104	105	106	24	104	105	105	24	105	106	106	24	105	105	106	24	110	111	112	24
3/29	103	103	104	24	103	103	104	24	104	104	104	24	103	104	105	24	111	113	114	24
3/30	102	102	103	24	102	102	102	15	103	103	103	24	103	104	104	24	107	108	112	24
3/31	103	103	104	24	104	104	108	14	103	104	104	24	103	103	104	24	109	111	112	24
4/1	102	103	103	24	102	103	104	24	104	104	104	24	103	104	104	24	110	111	112	24
4/2	103	103	104	24	103	103	104	24	104	104	105	24	104	104	105	24	111	112	114	24
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

Two-Week Summary of Passage Indices

Date	COMBINED YEARLING CHINOOK									MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)
	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)				
03/27/2009	114	182	118	14	170	---	---	---	---	---	---	91
03/28/2009	109	125	112	29	220	---	---	---	---	---	---	49
03/29/2009	200	105	134	5	80	---	---	---	---	---	---	63
03/30/2009 *	413	272	37	19	200	---	---	---	---	---	---	75
03/31/2009	479	140	86	29	520	---	---	---	---	---	---	119
04/01/2009 *	358	999	138	2	930	---	6	0	---	---	145	75
04/02/2009 *	464	452	105	0	2,110	39	13	1	---	---	220	121
04/03/2009 *	111	297	144	9	3,565	51	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	---	223	46	5,286	521	1,248	1	200	---	435	323
04/10/2009	---	---	---	---	---	---	---	---	---	---	---	---
Total:	6,618	9,905	2,547	259	36,332	1,335	1,554	4	200	2,235	1,865	
# Days:	14	13	14	14	14	8	9	9	1	9	14	
Average:	473	762	182	19	2,595	167	173	0	200	248	133	
YTD	15,627	23,572	3,665	305	36,502	1,335	1,554	4	200	2,235	11,860	

Date	COMBINED SUBYEARLING CHINOOK									MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)
	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)				
03/27/2009	0	0	0	5	0	---	---	---	---	---	---	1,099
03/28/2009	0	0	0	4	0	---	---	---	---	---	---	1,050
03/29/2009	0	0	0	2	0	---	---	---	---	---	---	691
03/30/2009 *	0	0	0	13	0	---	---	---	---	---	---	930
03/31/2009	0	0	0	17	0	---	---	---	---	---	---	1,303
04/01/2009 *	0	0	0	22	0	---	0	3	---	---	0	1,038
04/02/2009 *	0	0	0	4	60	0	0	0	---	---	5	617
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	---	0	8	422	0	0	11	20	---	0	428
04/10/2009	---	---	---	---	---	---	---	---	---	---	---	---
Total:	0	0	0	112	794	0	0	56	20	10	10,415	
# Days:	14	13	14	14	14	8	9	9	1	9	14	
Average:	0	0	0	8	57	0	0	6	20	1	744	
YTD	0	0	13	126	794	0	0	56	20	10	18,955	

Two-Week Summary of Passage Indices

Date	COMBINED COHO										
	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)
03/27/2009	0	0	0	0	0	---	---	---	---	---	26
03/28/2009	0	0	0	0	0	---	---	---	---	---	7
03/29/2009	0	0	0	0	0	---	---	---	---	---	12
03/30/2009 *	0	0	0	0	0	---	---	---	---	---	6
03/31/2009	0	0	0	1	0	---	---	---	---	---	0
04/01/2009 *	0	0	0	0	0	---	0	0	---	0	37
04/02/2009 *	0	0	0	0	0	0	0	0	---	0	28
04/03/2009 *	0	0	0	0	0	0	0	0	---	5	50
04/04/2009 *	0	0	0	0	0	0	0	0	---	0	36
04/05/2009	0	0	0	0	15	0	0	0	---	5	88
04/06/2009	0	0	0	0	0	0	0	0	---	0	37
04/07/2009	0	0	0	0	29	0	0	1	---	0	92
04/08/2009	0	0	0	0	0	0	0	0	---	0	96
04/09/2009 *	0	---	0	0	0	0	0	1	30	10	112
04/10/2009	---	---	---	---	---	---	---	---	---	---	---
Total:	0	0	0	1	44	0	0	2	30	20	627
# Days:	14	13	14	14	14	8	9	9	1	9	14
Average:	0	0	0	0	3	0	0	0	30	2	45
YTD	0	0	0	1	44	0	0	2	30	20	821

Date	COMBINED STEELHEAD										
	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)
03/27/2009	0	2	1	0	110	---	---	---	---	---	7
03/28/2009	0	5	1	2	130	---	---	---	---	---	12
03/29/2009	0	1	0	0	110	---	---	---	---	---	12
03/30/2009 *	0	4	3	5	130	---	---	---	---	---	13
03/31/2009	0	2	2	4	150	---	---	---	---	---	33
04/01/2009 *	0	4	2	1	160	---	2	0	---	10	13
04/02/2009 *	1	25	1	3	350	64	5	0	---	30	15
04/03/2009 *	0	69	2	0	812	85	0	1	---	40	7
04/04/2009 *	4	89	1	8	835	94	0	0	---	40	24
04/05/2009	3	48	2	2	741	95	15	1	---	35	14
04/06/2009	13	53	1	1	1,141	192	61	5	---	120	0
04/07/2009	22	32	1	4	643	354	40	0	---	125	34
04/08/2009	12	155	7	5	888	229	47	4	---	140	223
04/09/2009 *	33	---	32	18	1,209	653	50	4	141	85	458
04/10/2009	---	---	---	---	---	---	---	---	---	---	---
Total:	88	489	56	53	7,409	1,766	220	15	141	625	865
# Days:	14	13	14	14	14	8	9	9	1	9	14
Average:	6	38	4	4	529	221	24	2	141	69	62
YTD	88	541	75	60	7,429	1,766	220	15	141	625	903

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)
03/27/2009	0	0	0	0	90	---	---	---	---	---	0
03/28/2009	0	0	0	0	20	---	---	---	---	---	0
03/29/2009	0	0	0	0	80	---	---	---	---	---	0
03/30/2009 *	0	0	0	0	30	---	---	---	---	---	0
03/31/2009	0	0	0	0	10	---	---	---	---	---	0
04/01/2009 *	0	0	0	0	100	---	1	0	---	0	0
04/02/2009 *	0	0	0	0	160	7	0	0	---	5	0
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	197	86	11	0	20	0	0
04/10/2009	---	---	---	---	---	---	---	---	---	---	---
Total:	0	0	0	0	1,816	580	75	0	20	15	0
# Days:	14	13	14	14	14	8	9	9	1	9	14
Average:	0	0	0	0	130	73	8	0	20	2	0
YTD	0	0	0	0	1,866	580	75	0	20	15	4

* 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:

4/10/09 8:47 AM

03/27/09 TO 04/10/09

Site	Data	Species					Grand Total
		CH0	CH1	CO	ST	SO	
LGR	Sum of NumberCollected	570	26,940	30	5,610	1,420	34,570
	Sum of NumberBarged	304	5,682	0	831	165	6,982
	Sum of NumberBypassed	259	21,239	30	4,779	1,242	27,549
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of SampleMorts	7	14	0	0	7	28
	Sum of FacilityMorts	0	5	0	0	6	11
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	7	19	0	0	13	39
LGS	Sum of NumberCollected		956		1,272	413	2,641
	Sum of NumberBarged		0		0	0	0
	Sum of NumberBypassed		941		1,255	410	2,606
	Sum of Numbertrucked		0		0	0	0
	Sum of SampleMorts		11		3	2	16
	Sum of FacilityMorts		3		14	1	18
	Sum of ResearchMorts		0		0	0	0
	Sum of TotalProjectMorts		14		17	3	34
LMN	Sum of NumberCollected		998		128	42	1,168
	Sum of NumberBarged		0		0	0	0
	Sum of NumberBypassed		997		128	42	1,167
	Sum of Numbertrucked		0		0	0	0
	Sum of SampleMorts		2		0	0	2
	Sum of FacilityMorts		0		0	0	0
	Sum of ResearchMorts		0		0	0	0
	Sum of TotalProjectMorts		2		0	0	2
MCN	Sum of NumberCollected	20	200	30	141	20	411
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	20	200	30	140	20	410
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of SampleMorts	0	0	0	0	0	0
	Sum of FacilityMorts	0	0	0	1	0	1
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	0	0	0	1	0	1
Total Sum of NumberCollected		590	29,094	60	7,151	1,895	38,790
Total Sum of NumberBarged		304	5,682	0	831	165	6,982
Total Sum of NumberBypassed		279	23,377	60	6,302	1,714	31,732
Total Sum of Numbertrucked		0	0	0	0	0	0
Total Sum of SampleMorts		7	27	0	3	9	46
Total Sum of FacilityMorts		0	8	0	15	7	30
Total Sum of ResearchMorts		0	0	0	0	0	0
Total Sum of TotalProjectMorts		7	35	0	18	16	76

YTD Transportation Summary

Source: Fish Passage Center

Updated:

4/10/09 8:47 AM

TO: 04/10/09

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	570	27,110	30	1,470	5,630	34,810
	Sum of NumberBarged	304	5,682	0	165	831	6,982
	Sum of NumberBypassed	259	21,409	30	1,292	4,799	27,789
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	7	14	0	7	0	28
	Sum of FacilityMorts	0	5	0	6	0	11
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	7	19	0	13	0	39
LGS	Sum of NumberCollected		956		413	1,272	2,641
	Sum of NumberBarged		0		0	0	0
	Sum of NumberBypassed		941		410	1,255	2,606
	Sum of NumberTrucked		0		0	0	0
	Sum of SampleMorts		11		2	3	16
	Sum of FacilityMorts		3		1	14	18
	Sum of ResearchMorts		0		0	0	0
	Sum of TotalProjectMorts		14		3	17	34
LMN	Sum of NumberCollected		998		42	128	1,168
	Sum of NumberBarged		0		0	0	0
	Sum of NumberBypassed		997		42	128	1,167
	Sum of NumberTrucked		0		0	0	0
	Sum of SampleMorts		2		0	0	2
	Sum of FacilityMorts		0		0	0	0
	Sum of ResearchMorts		0		0	0	0
	Sum of TotalProjectMorts		2		0	0	2
MCN	Sum of NumberCollected	20	200	30	20	141	411
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	20	200	30	20	140	410
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	0	0	0	0	0	0
	Sum of FacilityMorts	0	0	0	0	1	1
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	0	0	0	0	1	1
Total Sum of NumberCollected		590	29,264	60	1,945	7,171	39,030
Total Sum of NumberBarged		304	5,682	0	165	831	6,982
Total Sum of NumberBypassed		279	23,547	60	1,764	6,322	31,972
Total Sum of NumberTrucked		0	0	0	0	0	0
Total Sum of SampleMorts		7	27	0	9	3	46
Total Sum of FacilityMorts		0	8	0	7	15	30
Total Sum of ResearchMorts		0	0	0	0	0	0
Total Sum of TotalProjectMorts		7	35	0	16	18	76

Cumulative Adult Passage at Mainstem Dams Through: 04/09

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	04/09	714	3	910	2	15343	33	0	0	0	0	0	0	0	0	0	0	0	0
TDA	04/09	212	2	345	6	6487	9	0	0	0	0	0	0	0	0	0	0	0	0
JDA	04/08	46	1	126	0	2465	0	0	0	0	0	0	0	0	0	0	0	0	0
MCN	04/09	27	0	34	-2	1509	3	0	0	0	0	0	0	0	0	0	0	0	0
IHR	04/09	18	0	23	0	662	0	0	0	0	0	0	0	0	0	0	0	0	0
LMN	04/08	3	0	2	0	189	0	0	0	0	0	0	0	0	0	0	0	0	0
LGS	04/09	1	0	1	0	119	0	0	0	0	0	0	0	0	0	0	0	0	0
LGR	04/09	0	0	0	0	39	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	--	0	0	0	0	0	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	04/07	46	0	24	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	1065	958	1245	355	
TDA	0	0	0	0	0	0	0	0	328	417	468	133	
JDA	0	0	0	0	0	0	0	0	670	752	1086	350	
MCN	0	0	0	0	0	0	0	0	685	842	853	268	
IHR	0	0	0	0	0	0	0	0	1137	1201	1036	348	
LMN	0	0	0	0	0	0	0	0	1502	679	917	534	
LGS	0	0	0	0	0	0	0	0	1481	567	991	424	
LGR	0	0	0	0	0	0	0	0	6732	4965	6106	1585	
PRD	0	0	0	0	0	0	0	0	0	0	0	0	
RIS	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	
WEL	0	0	0	0	0	0	0	0	0	0	0	0	
WFA	0	0	0	0	-	-	0	0	2209	3557	-	-	

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