



Fish Passage Center Weekly Report #07 - 8

April 27, 2007

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Summary of Events:

Water Supply: Precipitation throughout the Columbia Basin has varied between 60% and 124% of average at individual sub-basins over the first 23-days of April. Precipitation above The Dalles has been 94% of average over the first 23-days of April. Over the entire water year, precipitation has generally been near or above 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 2007 April 1-23		Water Year 2007 October 1, 2006 to April 23, 2007	
	Observed (inches)	% Average	Observed (inches)	% Average
	Columbia Above Coulee	1.19	94	17.54
Sneke River Above Ice Harbor	1.18	106	10.25	90
Columbia Above The Dalles	1.18	94	16.59	107
Kootenai	1.19	89	19.05	120
Clark Fork	1.09	114	10.8	109
Flathead	1.48	123	14.47	108
Pend Oreille/Spokane	1.10	63	21.71	99
Central Washington	0.29	60	6.22	97
Sneke River Plain	0.99	124	6.06	88
Salmon/Boise/Payette	1.07	87	12.35	88
Clearwater	1.65	81	21.63	105
SW Washington Cascades/Cowlitz	2.52	61	59.98	104
Willamette Valley	3.38	91	53.42	109

Table 2 displays the April Final and May Early runoff volume forecasts for multiple reservoirs. Water Supply Forecasts did not vary much between the April Final and May Early forecasts at Columbia Basins and Snake Basin sites. The current forecast at The Dalles between January and July remained the same and is 100000 Kaf (93% of average).

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

Location	April Final		May Early	
	% Average (1971- 2000)	Probable Runoff Volume (Kaf)	% Average (1971- 2000)	Probable Runoff Volume (Kaf)
The Dalles (Jan-July)	93	100000	93	100000
Grand Coulee (Jan-July)	105	65900	105	66100
Libby Res. Inflow, MT (Jan-July)	106	6700	108	6820
Hungry Horse Res. Inflow, MT (Jan-July)	93	2070	93	2060
Lower Granite Res. Inflow (Apr- July)	70	15100	68	14600
Brownlee Res. Inflow (Apr-July)	52	3300	50	3170
Dworshak Res. Inflow (Apr-July), RFC Forecast	83	2200	80	2110
Dworshak Res. Inflow (Apr-July), COE Forecast	74 (April Final)	1982 (April Final)		

Grand Coulee Reservoir is at 1250.9 feet (4-26-07) and has drafted 2.8 feet in the last week. The end of April flood control elevation is 1249.4 feet.

Dworshak is currently at an elevation of 1572.6 feet (4-26-07) and refilled 0.5 feet last week. The COE's official forecast has dropped from 82% of average (March final) to 74% of average (April Final), which has caused the end of April Flood Control elevation to increase to 1574.8 feet. As a result Dworshak the project is being operated to achieve this elevation with the objective of gradually refilling to the end of April flood control elevation, without decreasing flow from Dworshak towards the end of the month. Outflows at Dworshak have ranged between 7.6 and 9.8 Kcfs over the last week.

The Libby Reservoir is currently at elevation 2387.5 feet (4-26-07) and drafted 5.2 feet last week. Outflows at Libby are currently 24.5 Kcfs. The end of April Flood Control Elevation is 2378.7 feet.

Hungry Horse is currently at an elevation of 3536.1 feet (4-26-07) and filled one foot last week. Outflows at Hungry Horse are currently 3 Kcfs. Hungry Horse's end of April VarQ Flood Control Elevation is 3548.4 feet.

The Brownlee Reservoir was at an elevation of 2070.4 feet on April 26th, 2007, refilling 1.5 feet last week. Outflows at Brownlee Dam have been 9.0 to 11.8 Kcfs over the last week. The end of April Flood Control Elevation is 2071.6 feet.

The Biological Opinion flow period began on April 3rd in the lower Snake River (Lower Granite) and on April 10th in the mid (Priest Rapids) and lower (McNary) Columbia River. According to the last Water Supply Forecast (April Final), the flow objectives this spring will be 85 Kcfs at Lower Granite, 237 Kcfs at McNary, and 135 Kcfs at Priest Rapids. The McNary Dam flow over the past week averaged 218.6 Kcfs. The Lower Granite Dam flow over the past week averaged 47.3 Kcfs. The Priest Rapids Dam flow over the past week averaged 167.5 Kcfs.

Spill: In accordance with the Court Order, spill was initiated at the Snake River Projects at 0001 hours on April 3, 2007. The Court Order calls for the following spill levels at the Federal Snake River Projects:

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 has averaged an instantaneous 20 Kcfs and spill at Little Goose Dam is at the 30% instantaneous level. Daily average spill at Lower Monumental Dam has been consistently decreased over the past week, from just over 25 Kcfs to 21.4 Kcfs, as the COE lowered their estimate of spill that would achieve the gas cap. The total dissolved gas readings (average of the 12 highest hourly readings) in the tailrace of this project was 120.6 on April 20 and dropped to 116.4 on April 26. The TDG at Ice Harbor Dam forebay is ranging between 114.5 and 115.4. The project is presently employing a bulk spill pattern. Spill at Ice Harbor Dam has been equal to all flow in excess of that needed to operate one turbine unit.

Court ordered spill at the lower Columbia projects began on April 10, 2007. The Court Order calls for the following spill levels at the Federal Lower Columbia River Projects:

Project	Day/Night Spill
McNary	40%/40%
John Day	0/60%
The Dalles	40%/40%
Bonneville	100Kcfs/100Kcfs

Spill at McNary Dam is meeting the Court's Order. Spill at John Day Dam has not been achieving the Court's Order, and has averaged 56% spill between 1900 and 0600 hours over the past week. Total dissolved gas reached a high of 120.1% in the John Day Dam tailrace, and 116.3% at The Dalles forebay monitor. The total dissolved gas has averaged 119% over the past four days at the

John Day Dam tailrace and 113.4% over the past five days at The Dalles Dam forebay. JDA has been shown to have a flat dissolved gas generation curve with increasing spill above 100 kcfs up to approximately 140 kcfs. The COE established cap on spill is 120Kcfs (4/24) and from the TDG data and the dissolved gas generation curve, it appears an increase in spill would be appropriate. Spill at The Dalles has met the Court's Order. Spill at Bonneville Dam has averaged 99 Kcfs over the past week, slightly less than the Court's Order.

Total dissolved gas at the federal hydro-projects was near waiver limits over the past week, with the exception of slight exceedences of TDG at Lower Monumental tailrace, Ice Harbor forebay, John Day tailrace and The Dalles forebay. Gas bubble trauma (GBT) monitoring continued this week at Lower Granite, Lower Monumental, Rock Island, and Bonneville dams. The April 24 sample of 100 Chinook & steelhead at Lower Monumental saw 2 fish with minor signs of GBT. All other samples showed no fish with signs of GBT.

Smolt Monitoring: Sampling is ongoing at all SMP locations. Sampling at Little Goose and Lower Monumental dams is limited to condition and research sampling; full sampling, in support of transportation will begin in late April or early May at those sites. Sampling at McNary Dam has been resumed on a regular schedule; every other day for spring migrants. Rock Island Dam sampling was shutdown for three days this week as brushes on bypass gates were replaced in response to higher mortality in recent samples. Sampling resumed April 27.

Smolt Monitoring at Snake River tributary traps continued this past week, where large numbers of yearling Chinook are being captured at the Imnaha, Grande Ronde and Salmon traps. At the Salmon River Trap, operated by IDFG, hatchery yearling Chinook dominated the catch over the past week. Catch of yearling Chinook at the trap reached 1,624 on April 20. Over 3 million hatchery Chinook were released into the basin above the trap in the past three weeks. At the Grande Ronde Trap the catch of yearling chinook increased over the past week. The numbers of clipped hatchery

origin fish in the catch went up to 651 of 744 total yearling Chinook but then decreased rapidly so that by the last four days of the week, roughly half of the Chinook were unclipped fish. But many of the unclipped fish are coded-wire tagged fish. Those unclipped fish are from an acclimation release of 118,000 fish that ended on April 11. The Imnaha Trap has had very large numbers of hatchery yearling chinook pass the trap. Peak collection of over 13,000 per day on April 10 and 11 was 90% hatchery origin fish. Numbers have declined over the past three weeks, the site is now collecting a little more than 300 per day over the past week. The Imnaha Trap also saw another spike in steelhead passage last week on April 24 and 25. All three of the rivers these traps operate in showed a peak in discharge between April 10 and 11 that coincided with the high collection numbers reported for that time period. The higher numbers collected reflect increased passage as well as improved trap efficiency at moderately higher discharge. Flows in the Imnaha and Salmon rivers have risen over the past 5 days as temperatures have risen.

At the Snake River Trap collection numbers are gradually increasing, but flows remain very low for this time of year and the trap does not fish as effectively at these low flows. Discharge in the Snake River, measured at Anatone gage, has fluctuated between 25 and 30 kcfs over the past two weeks, compared to median historic flows averaging between 40 and 45 kcfs for the same time period.

At Lower Granite Dam, there was a significant increase in collection of spring migrants the past week. The passage index for yearling chinook rose to 86,000 on April 22, averaging 50,000 per day, while steelhead indices rose to 30,000 on the 22nd, averaging 19,000 over the past week. Based on estimated collection efficiency roughly 2 million yearling Chinook have passed Lower Granite Dam, while an estimated 300,000 to 750,000 steelhead have passed.

Full 24-hour sampling at Little Goose and Lower Monumental dams will begin when transportation begins at those sites. Transportation will begin on a delayed schedule this year similar to

2006. Some sampling for research and fish condition is occurring at those dams. For now sampling at these sites is limited to condition and research sub-samples which are samples taken for a few hours each date and so the passage index and collection data should be used with caution for either timing or species composition information.

At Rock Island Dam the bypass was shut-down on Monday April 23rd and remained shut-down until April 26, so that crews could inspect and repair seals and brushes in the collection gates. Mortality had increased last week at the site leading the Chelan PUD to inspect and subsequently repair the gates. Normal sampling resumed on Friday, April 27, but the first real sample would not be available until April 28 to assess if the repairs had alleviated the mortality problem.

In the Lower Columbia, at McNary Dam the yearling chinook index averaged 15,000 over the past 4 sample dates, while steelhead indices averaged just over 5,000 for those same dates, compared to 1,000 per day average the previous week. While at John Day Dam the yearling Chinook index averaged 190,000 per day this week compared to 8,500 last week, and steelhead numbers were up slightly, with the average index this week at 1,900 compared to 1,300 the previous week.

At Bonneville Dam the yearling chinook index averaged 14,000 over the past week, compared to 23,000 the previous week. Subyearling chinook index rose to 262,000 on April 14, as passage from the second Spring Creek release peaked. Another release of 3.5 million is scheduled for May 1.

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. This week marked the end of a volitional release of just under 2.5 million yearling spring Chinook from Rapid River Hatchery into the Little Salmon River. Also scheduled to end this week were two volitional releases of approximately 197,000 yearling spring Chinook into the Tucannon

River from Tucannon Hatchery. Summer steelhead releases from Niagara Springs Hatchery to the Pahsimeroi and Salmon Rivers also wrapped up this week, with a total of 830,447 and 266,738 being released into these rivers, respectively. In addition, approximately 453,000 summer steelhead were released into the Salmon River from Magic Valley Hatchery in Idaho.

Approximately 110,000 subyearling fall Chinook are scheduled for release in this zone on May 1st. Releases of sockeye to the Salmon River are scheduled to begin within the next two weeks, with 54,000 scheduled for release into Redfish Lake and 46,000 scheduled for direct release into the Salmon River. Finally, approximately 1.74 million summer steelhead are scheduled for release into this zone over the next two weeks. Of these, approximately 78% are scheduled for release into the Salmon River and its tributaries with the remaining 22% scheduled for release into the Imnaha, Grande Ronde, and Wallowa 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. A release of approximately 1.2 million subyearling fall Chinook into the Yakima River is scheduled to begin on April 27th. A volitional release of approximately 358,000 summer Chinook from Wells Hatchery on the Mid-Columbia River began on April 23rd and is scheduled to run through early to mid-May. The Yakama Tribal Program to re-establish coho runs into the Methow and Wenatchee Rivers Basins continued this week with the release of approximately 105,000 smolts into the Wenatchee and 70,000 smolts into the Methow River. Volitional releases of approximately 345,000 summer steelhead into the Methow River began this week from various acclimation facilities. In addition, about 122,000 summer steelhead from Winthrop NFH are scheduled for release into the Methow River on April 27th. This week marked the end of a volitional release of approximately 300,000 summer steelhead from Ringold Hatchery into the Mid-Columbia River. Finally, volitional releases of summer steelhead to the Okanogan and Touchet Rivers began this week, with an estimated 150,000 and 88,000 being released into these rivers, respectively.

Approximately 95,000 subyearling fall Chinook are scheduled for release into the Yakima River on or around May 7th. The only release of yearling spring Chinook scheduled for the next two weeks is a volitional release of about 493,000 yearling spring Chinook to the Wenatchee River that is scheduled to end on May 4th. Volitional releases totaling approximately 1.53 million summer Chinook are scheduled to run through the next two weeks. The Yakama Tribal Program to re-establish coho runs into the Methow and Wenatchee Rivers Basins will continue over the next two weeks with the release of an estimated 550,000 coho into the Wenatchee and Mid-Columbia Rivers. Finally, approximately 240,000 summer steelhead are scheduled for release into the Wenatchee River, beginning May 1st.

Lower Columbia Zone: The Lower Columbia Zone is defined as the Columbia River and its tributaries from Bonneville Dam to McNary Dam. Volitional releases of approximately 47,500 yearling spring Chinook began this week. These releases are from acclimation facilities on Hood River and are scheduled to end in early May. A volitional release of about 9,750 summer steelhead from an acclimation facility on Hood River was scheduled to end this week.

The final release of tule fall Chinook from Spring Creek NFH is scheduled to occur on May 1st. An estimated 3.5 million smolts will be released from the hatchery into Lower Columbia River. Just under 400,000 yearling spring Chinook are scheduled for release into this zone over the next two weeks. Of these, approximately 80% will be released into the Deschutes River, with the remaining 20% scheduled for release into Hood River. Approximately 1.0 million type-N Coho are scheduled for release into the Klickitat River, beginning May 1st. A volitional release of about 92,684 summer steelhead to the Klickitat River is scheduled to end in the next two weeks (May 10th). Also scheduled to end on May 10th are two volitional releases of steelhead to the White Salmon River, totaling 49,184 smolts. Of these, approximately 54% are summer steelhead and 46% are winter steelhead. Finally, a volitional release of approximately 9,750 winter steelhead to Hood

River is scheduled to begin on May 3rd and will run through May 16th.

Adult Fish Passage: Adult counts at Bonneville Dam have been updated through April 26th. Between March 15th and April 26th, 21,024 adult spring Chinook had passed Bonneville Dam; this compares to 1,559 spring Chinook adults over the same period last year. From March 15th through the April 26th spring Chinook adults have been counted daily except for two days when no adults were counted. Daily passage numbers at Bonneville Dam have ranged between 616 and 3,428 adult spring Chinook in the last week. The 2007 spring Chinook count thus far is about 26 percent of the 10-year average count. When the 2007 count of 21,024 is compared to the 2006 count of 1,559, it increased about 13.5 times. In 2006, the spring Chinook migration arrived much later than usual. As of April 26th, 1,741 steelhead had passed the dam which is about 1.17 times the 2006 count of 1,483. The 2007 Bonneville steelhead of 1,741 count was 335 steelhead less than the 10-year average count of 2,076 as of April 26th.

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 the pools and will complete their trip to the spawning grounds in March through early May. Daily counts at Lower Granite had ranged between 8 and 34 adult steelhead in the last week. The total steelhead count passing at Lower Granite Dam as of April 25th was 10,259 which was approximately 1.43 times greater than the 2006 count of 7,172 and 1.59 times greater than the 10-year average count of 6,435. As of April 25th, 32 spring Chinook adults had passed Lower Granite dam compared to only 2 fish during the same time last year.

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
04/13/07	153.8	0.0	151.3	0.0	158.4	19.9	154.7	5.0	158.5	0.0	168.4	12.6	157.2	0.0
04/14/07	135.7	0.0	147.3	0.0	161.2	41.9	166.3	14.4	172.3	0.0	182.4	23.5	184.1	9.3
04/15/07	111.0	0.0	103.7	0.0	131.3	9.7	133.9	0.0	140.8	0.0	160.7	0.0	165.3	0.1
04/16/07	155.3	0.0	166.5	0.0	165.9	17.1	151.6	4.6	151.2	0.0	145.5	0.0	158.5	0.0
04/17/07	141.2	0.0	136.6	0.0	152.1	13.4	153.0	3.9	160.4	16.6	171.8	10.8	162.4	0.0
04/18/07	151.5	0.0	156.4	0.0	163.3	32.0	158.9	12.3	158.4	16.5	159.9	13.8	163.5	0.0
04/19/07	148.2	0.0	150.8	0.0	162.3	15.8	160.8	8.8	164.8	15.8	175.9	26.0	174.5	12.3
04/20/07	149.4	0.0	149.5	0.0	160.8	13.6	161.0	12.0	163.6	16.5	177.7	31.7	180.6	75.7
04/21/07	132.3	0.0	132.2	0.0	147.6	10.0	149.1	0.0	154.4	14.9	163.9	23.0	167.3	102.1
04/22/07	109.8	0.0	115.3	10.5	124.2	9.2	118.2	0.7	121.1	13.6	151.1	20.4	156.4	95.5
04/23/07	147.1	0.0	153.6	2.9	164.7	23.1	162.5	12.4	163.4	16.5	147.6	21.1	159.5	97.2
04/24/07	153.4	0.0	149.4	0.0	159.4	15.9	157.8	11.1	160.1	16.0	161.6	21.9	157.7	96.0
04/25/07	146.6	0.0	151.3	0.0	163.6	15.4	161.9	7.7	165.5	16.1	171.2	28.9	173.8	106.2
04/26/07	137.0	0.0	138.2	0.0	147.7	10.0	152.5	2.7	160.2	16.2	170.2	29.3	176.9	107.9

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
04/13/07	7.5	0.0	15.6	12.6	50.0	20.0	49.6	13.4	49.9	26.7	52.3	42.2		
04/14/07	5.5	0.0	14.1	11.9	47.2	19.8	45.2	13.8	47.5	23.2	49.5	39.5		
04/15/07	5.5	0.0	13.5	12.2	45.2	20.0	42.7	12.9	44.3	29.6	45.5	35.5		
04/16/07	5.7	0.0	13.8	14.0	49.5	20.0	48.5	14.4	49.2	29.6	50.2	40.0		
04/17/07	5.8	0.0	11.9	12.0	48.1	19.9	46.7	14.2	51.1	28.2	53.1	43.0		
04/18/07	5.8	0.0	14.3	11.2	46.5	20.0	42.1	12.5	40.9	24.2	40.3	30.1		
04/19/07	7.2	0.0	12.8	10.1	47.8	20.0	46.7	14.0	48.2	25.5	50.5	40.4		
04/20/07	7.6	0.0	12.3	11.5	46.3	20.0	45.3	13.8	44.0	25.1	46.8	36.8		
04/21/07	7.6	0.0	12.1	10.1	47.4	19.9	48.4	14.5	49.9	23.4	54.5	44.4		
04/22/07	7.6	0.0	11.7	11.1	45.3	20.0	41.5	12.5	39.3	23.4	40.2	30.2		
04/23/07	7.6	0.0	12.2	12.9	46.1	20.0	42.6	12.9	41.7	23.4	45.8	35.8		
04/24/07	7.6	0.0	11.9	10.2	45.8	19.9	45.9	13.7	47.2	23.4	51.4	41.1		
04/25/07	8.3	0.0	10.9	10.2	48.9	19.9	46.0	13.5	44.8	21.8	46.2	36.0		
04/26/07	9.8	0.0	---	---	51.6	20.0	49.8	15.1	51.0	21.4	52.8	42.7		

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

Date	McNary		John Day		The Dalles		Bonneville		PH1	PH2
	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill		
04/13/07	223.5	89.1	246.2	50.7	245.1	98.1	266.9	100.5	67.5	86.6
04/14/07	234.7	93.8	214.7	49.8	207.7	83.3	219.5	101.1	24.9	82.0
04/15/07	223.9	90.1	229.6	54.5	230.4	94.5	255.7	100.4	65.5	78.3
04/16/07	231.3	92.8	219.9	60.4	210.2	84.1	211.5	100.9	53.4	45.6
04/17/07	229.6	92.4	224.0	71.0	226.2	90.8	251.6	98.9	46.6	94.6
04/18/07	222.4	89.8	215.8	63.3	208.7	83.6	230.6	97.7	26.8	94.7
04/19/07	231.2	92.5	217.0	63.3	211.8	83.8	222.9	98.9	20.4	92.1
04/20/07	218.5	87.9	220.6	71.1	214.6	86.3	226.9	99.6	22.6	93.2
04/21/07	216.8	87.4	217.3	65.3	213.4	85.8	232.4	100.2	27.2	93.6
04/22/07	221.7	88.9	215.8	63.9	214.9	85.9	231.7	99.5	28.5	92.2
04/23/07	217.8	87.7	219.8	63.9	216.4	86.3	242.8	98.5	36.9	95.9
04/24/07	208.7	83.4	198.2	55.2	193.7	77.2	209.3	98.1	8.7	91.0
04/25/07	216.0	87.0	206.1	59.9	207.0	81.9	220.9	98.8	14.2	96.4
04/26/07	230.5	92.7	222.5	60.9	216.7	86.8	235.6	98.6	35.5	90.0

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

Site	Date	Species	Number of Fish	Number w GBT signs	Number w Fin Signs	% Fin GBT	% Severe Fin GBT	Number of Fish with Fin GBT Listed by Highest Rank			
								Rank 1	Rank 2	Rank 3	Rank 4
Lower Granite Dam											
	04/24/07	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
Little Goose Dam											
	04/24/07	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
Lower Monumental Dam											
	04/23/07	Chinook + Steelhead	100	2	2	2.00%	0.00%	2	0	0	0
McNary Dam											
	04/20/07	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	04/22/07	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	04/27/07	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
Bonneville Dam											
	04/21/07	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	04/24/07	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0

HATCHERY RELEASE LAST TWO WEEKS

Hatchery Release Summary

From: **4/13/2007** to **04/26/07**

Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
Colville Tribe	Cassimer Bar Hatchery	ST	SU	2007	9,000	04-14-07	04-14-07	Omak Creek Bonaparte Acclimation	Okanogan River
Colville Tribe	Eastbank Hatchery	CH1	SU	2007	8,000	04-20-07	04-20-07	Pond	Okanogan River
Colville Tribe Total					17,000				
Idaho Dept. of Fish and Game	Clearwater Hatchery	ST	SU	2007	100,329	04-15-07	04-17-07	Red River Redhouse (SFk)	S Fk Clearwater River
Idaho Dept. of Fish and Game	Clearwater Hatchery	ST	SU	2007	272,819	04-13-07	04-17-07	ClearH20 R)	S Fk Clearwater River
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2007	30,591	04-20-07	04-20-07	Pahsimeroi River	Pahsimeroi River
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2007	41,136	04-18-07	04-18-07	Slate Creek	Salmon River (ID)
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2007	60,000	04-23-07	04-26-07	Squaw Creek	Salmon River (ID)
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2007	60,439	04-20-07	04-23-07	Salmon River (ID)	Salmon River (ID)
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2007	78,847	04-17-07	04-18-07	Salmon River (ID)	Salmon River (ID)
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2007	119,727	04-19-07	04-20-07	Salmon River (ID)	Salmon River (ID)
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2007	125,000	04-23-07	04-26-07	Squaw Creek	Salmon River (ID)
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2007	129,930	04-12-07	04-16-07	Salmon River (ID)	Salmon River (ID)
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2007	165,473	04-16-07	04-17-07	Salmon River (ID)	Salmon River (ID)
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2007	207,487	04-23-07	04-25-07	East Fk Salmon River	Salmon River (ID)
Idaho Dept. of Fish and Game	Niagara Springs	ST	SU	2007	266,738	04-04-07	04-26-07	Little Salmon River	Salmon River (ID)
Idaho Dept. of Fish and Game	Niagara Springs	ST	SU	2007	830,447	04-06-07	04-24-07	Pahsimeroi River	Pahsimeroi River
Idaho Dept. of Fish and Game	Pahsimeroi Hatchery	CH1	SU	2007	978,462	04-15-07	04-15-07	Pahsimeroi River	Pahsimeroi River
Idaho Dept. of Fish and Game	Rapid River Hatchery	CH1	SP	2007	2,498,246	03-15-07	04-27-07	Rapid River	Little Salmon River
Idaho Dept. of Fish and Game Total					5,965,671				
Nez Perce Tribe	Clearwater Hatchery	ST	SU	2007	28,050	04-17-07	04-17-07	Meadow Creek - CLES	S Fk Clearwater River
Nez Perce Tribe	Clearwater Hatchery	ST	SU	2007	28,338	04-17-07	04-17-07	Mill Cr Bridge	S Fk Clearwater River
Nez Perce Tribe	Clearwater Hatchery	ST	SU	2007	49,890	04-19-07	04-19-07	Lolo Creek Crooked R Acclim	Clearwater River M F
Nez Perce Tribe	Clearwater Hatchery	ST	SU	2007	83,811	04-15-07	04-17-07	Pond	S Fk Clearwater River
Nez Perce Tribe	Clearwater Hatchery	ST	SU	2007	151,317	04-15-07	04-17-07	Red River	S Fk Clearwater River
Nez Perce Tribe	Lookingglass Hatchery	CH1	SP	2007	124,901	03-28-07	04-17-07	Lostine Accim Pond Pittsburg Landing	Wallowa River
Nez Perce Tribe	Lyons Ferry Hatchery	CH1	FA	2007	146,677	04-16-07	04-17-07	Acclim Pond Big Canyon (Clearwater River)	Snake River Clearwater River M F
Nez Perce Tribe	Lyons Ferry Hatchery	CH1	FA	2007	155,540	04-18-07	04-19-07		Clearwater River M F
Nez Perce Tribe Total					768,524				
Oregon Dept. of Fish and Wildlife	Irrigon Hatchery Complex	ST	SU	2007	165,000	04-10-07	05-01-07	Little Sheep Creek	Imnaha River
Oregon Dept. of Fish and Wildlife	Umatilla Hatchery	ST	SU	2007	50,000	04-16-07	04-16-07	Meacham Creek	Umatilla River
Oregon Dept. of Fish and Wildlife Total					215,000				
U.S. Fish and Wildlife Service	Dworshak NFH	ST	SU	2007	1,200,000	04-16-07	04-19-07	Dworshak Hatchery	Clearwater River M F
U.S. Fish and Wildlife Service	Hagerman NFH	ST	SU	2007	756,000	04-09-07	04-30-07	Salmon River (ID)	Salmon River (ID)
U.S. Fish and Wildlife Service	Leavenworth NFH	CH1	SP	2007	1,177,568	04-18-07	04-18-07	Icicle Creek Warm Springs	Wenatchee River
U.S. Fish and Wildlife Service	Warm Springs NFH	CH1	SP	2007	520,000	03-21-07	04-18-07	Hatchery	Deschutes River
U.S. Fish and Wildlife Service Total					3,653,568				
Umatilla Tribe	Umatilla Hatchery	ST	SU	2007	50,000	04-20-07	04-20-07	Minthorn Acclimation Pond	Umatilla River
Umatilla Tribe	Umatilla Hatchery	ST	SU	2007	53,000	04-20-07	04-20-07	Pendelton Acclim Pond	Umatilla River
Umatilla Tribe	Willard Hatchery	CH1	SP	2007	210,000	04-19-07	04-19-07	Imeques Acclim Pond	Umatilla River
Umatilla Tribe Total					313,000				
Warm Springs Tribe	Oak Springs Hatchery	ST	WI	2007	9,750	04-19-07	04-25-07	Parkdale Acclim Pond E Fk Irrig Dist Sand	Hood River
Warm Springs Tribe	Oak Springs Hatchery	ST	WI	2007	19,500	04-20-07	05-15-07	Trap Jones Creek Acclim	Hood River
Warm Springs Tribe	Round Butte Hatchery	CH1	SP	2007	20,000	04-10-07	04-16-07	Pond Jones Creek Acclim	Hood River
Warm Springs Tribe	Round Butte Hatchery	CH1	SP	2007	20,000	04-24-07	05-07-07	Pond	Hood River
Warm Springs Tribe	Round Butte Hatchery	CH1	SP	2007	27,500	04-10-07	04-16-07	Blackberry Acclim Pond	Hood River
Warm Springs Tribe	Round Butte Hatchery	CH1	SP	2007	27,500	04-24-07	05-08-07	Blackberry Acclim Pond	Hood River
Warm Springs Tribe	Round Butte Hatchery	CH1	SP	2007	32,000	03-22-07	05-04-07	Parkdale Acclim Pond	Hood River
Warm Springs Tribe Total					156,250				

HATCHERY RELEASE LAST TWO WEEKS (con't)

From: 4/13/2007 to 04/26/07

Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
Washington Dept. of Fish and Wildlife	Chelan Hatchery	CH1	SP	2007	493,000	04-16-07	05-04-07	Chiwawa Hatchery	Wenatchee River
Washington Dept. of Fish and Wildlife	Eastbank Hatchery	CH1	SU	2007	276,572	04-18-07	05-16-07	Similkameen Acclim Pd	Okanogan River
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	ST	SU	2007	59,000	04-18-07	04-20-07	Baileysburg Bridge	Touchet River
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	ST	SU	2007	62,000	04-16-07	04-18-07	Lyons Ferry Hatchery	Snake River
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	ST	SU	2007	88,000	04-23-07	04-27-07	Dayton Acclim Pond	Touchet River
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	ST	SU	2007	104,000	04-16-07	04-18-07	Tucannon River	Tucannon River
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	ST	SU	2007	104,000	04-16-07	04-18-07	Walla Walla River	Walla Walla River
Washington Dept. of Fish and Wildlife	Methow Hatchery	CH1	SP	2007	27,000	04-16-07	04-18-07	Twisp Acclim Pond	Methow River
Washington Dept. of Fish and Wildlife	Methow Hatchery	CH1	SP	2007	157,000	04-16-07	04-18-07	Methow River	Methow River
Washington Dept. of Fish and Wildlife	Methow Hatchery	CH1	SP	2007	233,000	04-16-07	04-18-07	Chewuch Acclim Pond	Methow River
Washington Dept. of Fish and Wildlife	Methow Hatchery	CH1	SU	2007	264,000	04-16-07	05-01-07	Methow River Ringold Springs	Methow River
Washington Dept. of Fish and Wildlife	Ringold Springs Hatchery	ST	SU	2007	300,000	04-09-07	04-27-07	Hatchery	Mid-Columbia River
Washington Dept. of Fish and Wildlife	Skamania Hatchery	ST	SU	2007	26,684	04-15-07	05-10-07	White Salmon River	White Salmon River
Washington Dept. of Fish and Wildlife	Skamania Hatchery	ST	SU	2007	92,684	04-15-07	05-10-07	Klickitat River	Klickitat River
Washington Dept. of Fish and Wildlife	Skamania Hatchery	ST	WI	2007	22,500	04-15-07	05-10-07	White Salmon River	White Salmon River
Washington Dept. of Fish and Wildlife	Tucannon Hatchery	CH1	SP	2007	86,000	04-03-07	04-23-07	Tucannon River	Tucannon River
Washington Dept. of Fish and Wildlife	Tucannon Hatchery	CH1	SP	2007	111,000	04-03-07	04-23-07	Tucannon River	Tucannon River
Washington Dept. of Fish and Wildlife	Tucannon Hatchery	ST	SU	2007	62,964	04-03-07	04-15-07	Tucannon River	Tucannon River
Washington Dept. of Fish and Wildlife	Wells Hatchery	CH1	SU	2007	358,000	04-23-07	05-07-07	Wells Hatchery	Mid-Columbia River
Washington Dept. of Fish and Wildlife	Wells Hatchery	ST	SU	2007	100,000	04-23-07	05-15-07	Twisp River	Methow River
Washington Dept. of Fish and Wildlife	Wells Hatchery	ST	SU	2007	122,500	04-23-07	05-15-07	Chewuch River	Methow River
Washington Dept. of Fish and Wildlife	Wells Hatchery	ST	SU	2007	122,500	04-23-07	05-15-07	Methow River	Methow River
Washington Dept. of Fish and Wildlife	Wells Hatchery	ST	SU	2007	150,000	04-23-07	05-15-07	Okanogan River	Okanogan River
Washington Dept. of Fish and Wildlife Total					3,422,404				
Yakama Tribe	Cascade Hatchery	CO	UN	2007	70,015	04-25-07	04-25-07	Winthrop Hatchery	Methow River
Yakama Tribe	Cascade Hatchery	CO	UN	2007	247,189	04-16-07	04-17-07	Icicle Creek	Wenatchee River
Yakama Tribe	Cle Elem Hatchery	CH1	SP	2007	281,176	03-15-07	05-15-07	Easton Pond	Yakima River
Yakama Tribe	Cle Elem Hatchery	CH1	SP	2007	287,645	03-15-07	05-15-07	Clark Flat Acclim Pond Jack Creek Acclim Pond	Yakima River
Yakama Tribe	Cle Elem Hatchery	CH1	SP	2007	291,991	03-15-07	05-15-07	Pond	Yakima River
Yakama Tribe	Eagle Creek NFH	CO	UN	2007	25,000	04-02-07	04-18-07	Yakama River	Yakima River
Yakama Tribe	Eagle Creek NFH	CO	UN	2007	150,000	04-02-07	04-18-07	Yakama River	Yakima River
Yakama Tribe	Prosser Acclim. Pond	CH0	FA	2007	550,000	04-16-07	04-16-07	Prosser Acclim Pond	Yakima River
Yakama Tribe	Prosser Acclim. Pond	CO	UN	2007	30,382	04-02-07	04-18-07	Yakama River	Yakima River
Yakama Tribe	Washougal Hatchery	CO	NO	2007	40,000	04-02-07	04-18-07	Yakama River	Yakima River
Yakama Tribe	Willard Hatchery	CO	UN	2007	368,576	04-16-07	04-17-07	Icicle Creek	Wenatchee River
Yakama Tribe	Winthrop NFH	CO	UN	2007	270,349	04-19-07	04-19-07	Winthrop Hatchery	Methow River
Yakama Tribe	Yakama Hatchery	CH0	FA	2007	20,000	04-16-07	04-16-07	Marion Drain	Yakima River
Yakama Tribe Total					2,632,323				
Grand Total					17,143,740				

HATCHERY RELEASE NEXT TWO WEEKS

Hatchery Release Summary

From: **4/27/2007** to **5/10/2007**

Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2007	50,000	04-30-07	04-30-07	East Fk Salmon River	Salmon River (ID)
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2007	50,000	05-03-07	05-03-07	Valley Creek	Salmon River (ID)
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2007	60,000	05-01-07	05-03-07	Slate Creek	Salmon River (ID)
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2007	90,000	05-01-07	05-03-07	Yankee Fk (Salmon R)	Salmon River (ID)
Idaho Dept. of Fish and Game	Oxbow-Idaho	CH0	FA	2007	110,000	05-01-07	05-01-07	Hells Canyon Dam	Snake River
Idaho Dept. of Fish and Game	Oxbow-Idaho	SO	UN	2007	54,000	05-08-07	05-08-07	Redfish Lake	Salmon River (ID)
Idaho Dept. of Fish and Game	Rapid River Hatchery	CH1	SP	2007	2,498,246	03-15-07	04-27-07	Rapid River	Little Salmon River
Idaho Dept. of Fish and Game	Sawtooth Hatchery	SO	UN	2007	46,000	05-08-07	05-08-07	Salmon River (ID)	Salmon River (ID)
Idaho Dept. of Fish and Game Total					2,958,246				
Big Canyon Acclim.Pd									
Oregon Dept. of Fish and Wildlife	Irrigon Hatchery Complex	ST	SU	2007	100,000	05-01-07	05-11-07	(Grande Ronde)	Grande Ronde River
Oregon Dept. of Fish and Wildlife	Irrigon Hatchery Complex	ST	SU	2007	120,000	04-28-07	05-10-07	Wallowa Acclim Pond	Wallowa River
Oregon Dept. of Fish and Wildlife	Irrigon Hatchery Complex	ST	SU	2007	165,000	04-10-07	05-01-07	Little Sheep Creek	Imnaha River
Oregon Dept. of Fish and Wildlife Total					385,000				
U.S. Fish and Wildlife Service	Hagerman NFH	ST	SU	2007	100,000	05-01-07	05-03-07	East Fk Salmon River	Salmon River (ID)
U.S. Fish and Wildlife Service	Hagerman NFH	ST	SU	2007	244,000	05-04-07	05-08-07	Yankee Fk (Salmon R)	Salmon River (ID)
U.S. Fish and Wildlife Service	Hagerman NFH	ST	SU	2007	756,000	04-09-07	04-30-07	Salmon River (ID)	Salmon River (ID)
U.S. Fish and Wildlife Service	Spring Creek NFH	CH0	FA	2007	3,500,000	05-01-07	05-01-07	White Salmon River	White Salmon River
U.S. Fish and Wildlife Service	Winthrop NFH	ST	SU	2007	122,000	04-27-07	04-27-07	Winthrop Hatchery	Methow River
U.S. Fish and Wildlife Service Total					4,722,000				
Warm Springs Tribe	Oak Springs Hatchery	ST	WI	2007	9,750	05-03-07	05-16-07	Parkdale Acclim Pond E Fk Irrig Dist Sand	Hood River
Warm Springs Tribe	Oak Springs Hatchery	ST	WI	2007	19,500	04-20-07	05-15-07	Trap Jones Creek Acclim	Hood River
Warm Springs Tribe	Round Butte Hatchery	CH1	SP	2007	20,000	04-24-07	05-07-07	Pond	Hood River
Warm Springs Tribe	Round Butte Hatchery	CH1	SP	2007	27,500	04-24-07	05-08-07	Blackberry Acclim Pond	Hood River
Warm Springs Tribe	Round Butte Hatchery	CH1	SP	2007	32,000	03-22-07	05-04-07	Parkdale Acclim Pond	Hood River
Warm Springs Tribe Total					108,750				
Washington Dept. of Fish and Wildlife	Chelan Hatchery	CH1	SP	2007	493,000	04-16-07	05-04-07	Chiwawa Hatchery	Wenatchee River
Washington Dept. of Fish and Wildlife	Eastbank Hatchery	CH1	SU	2007	276,572	04-18-07	05-16-07	Similkameen Acclim Pd	Okanogan River
Washington Dept. of Fish and Wildlife	Eastbank Hatchery	CH1	SU	2007	704,000	04-30-07	04-30-07	Dryden Acclim Pond	Wenatchee River
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	ST	SU	2007	88,000	04-23-07	04-27-07	Dayton Acclim Pond	Touchet River
Washington Dept. of Fish and Wildlife	Methow Hatchery	CH1	SU	2007	264,000	04-16-07	05-01-07	Methow River Ringold Springs	Methow River
Washington Dept. of Fish and Wildlife	Ringold Springs Hatchery	ST	SU	2007	300,000	04-09-07	04-27-07	Hatchery	Mid-Columbia River
Washington Dept. of Fish and Wildlife	Skamania Hatchery	ST	SU	2007	26,684	04-15-07	05-10-07	White Salmon River	White Salmon River
Washington Dept. of Fish and Wildlife	Skamania Hatchery	ST	SU	2007	92,684	04-15-07	05-10-07	Klickitat River	Klickitat River
Washington Dept. of Fish and Wildlife	Skamania Hatchery	ST	WI	2007	22,500	04-15-07	05-10-07	White Salmon River	White Salmon River
Washington Dept. of Fish and Wildlife	Turtle Rock Hatchery	CH1	SU	2007	204,000	05-01-07	05-01-07	Turtle Rock Hatchery	Mid-Columbia River
Washington Dept. of Fish and Wildlife	Turtle Rock Hatchery	ST	SU	2007	36,000	05-01-07	05-04-07	Wenatchee River	Wenatchee River
Washington Dept. of Fish and Wildlife	Turtle Rock Hatchery	ST	SU	2007	95,000	05-01-07	05-04-07	Nason Creek	Wenatchee River
Washington Dept. of Fish and Wildlife	Turtle Rock Hatchery	ST	SU	2007	109,000	05-01-07	05-04-07	Wenatchee River	Wenatchee River
Washington Dept. of Fish and Wildlife	Wells Hatchery	CH1	SU	2007	358,000	04-23-07	05-07-07	Wells Hatchery	Mid-Columbia River
Washington Dept. of Fish and Wildlife	Wells Hatchery	ST	SU	2007	100,000	04-23-07	05-15-07	Twisp River	Methow River
Washington Dept. of Fish and Wildlife	Wells Hatchery	ST	SU	2007	122,500	04-23-07	05-15-07	Chewuch River	Methow River
Washington Dept. of Fish and Wildlife	Wells Hatchery	ST	SU	2007	122,500	04-23-07	05-15-07	Methow River	Methow River
Washington Dept. of Fish and Wildlife	Wells Hatchery	ST	SU	2007	150,000	04-23-07	05-15-07	Okanogan River	Okanogan River
Washington Dept. of Fish and Wildlife Total					3,564,440				

HATCHERY RELEASE NEXT TWO WEEKS (cont'd)

From: **4/27/2007** to **5/10/2007**

Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
Yakama Tribe	Cascade Hatchery	CO	UN	2007	70,035	05-07-07	05-07-07	Nason Creek	Wenatchee River
Yakama Tribe	Cascade Hatchery	CO	UN	2007	70,048	04-27-07	04-27-07	Nason Creek	Wenatchee River
Yakama Tribe	Cascade Hatchery	CO	UN	2007	140,157	05-01-07	05-01-07	Wells Hatchery	Mid-Columbia River
Yakama Tribe	Cle Elem Hatchery	CH1	SP	2007	281,176	03-15-07	05-15-07	Easton Pond	Yakima River
Yakama Tribe	Cle Elem Hatchery	CH1	SP	2007	287,645	03-15-07	05-15-07	Clark Flat Acclim Pond Jack Creek Acclim Pond	Yakima River
Yakama Tribe	Cle Elem Hatchery	CH1	SP	2007	291,991	03-15-07	05-15-07	Pond	Yakima River
Yakama Tribe	Klickitat Hatchery	CO	NO	2007	1,000,000	05-01-07	05-15-07	Klickitat Hatchery	Klickitat River
Yakama Tribe	Little White Salmon NFH	CH0	FA	2007	1,200,000	04-27-07	04-27-07	Prosser Acclim Pond	Yakima River
Yakama Tribe	Prosser Acclim. Pond	CH0	FA	2007	95,000	05-07-07	05-07-07	Stiles Pond	Yakima River
Yakama Tribe	Willard Hatchery	CO	UN	2007	34,585	04-27-07	04-27-07	Nason Creek	Wenatchee River
Yakama Tribe	Willard Hatchery	CO	UN	2007	99,930	05-07-07	05-07-07	Nason Creek	Wenatchee River
Yakama Tribe	Willard Hatchery	CO	UN	2007	103,228	05-08-07	05-08-07	Wenatchee River	Wenatchee River
Yakama Tribe	Willard Hatchery	CO	UN	2007	136,631	05-02-07	05-02-07	Nason Creek	Wenatchee River
Yakama Tribe Total					3,810,426				
Grand Total					15,548,862				

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>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>
4/13	97	98	98	24	112	114	115	24	108	108	109	24	106	106	107	24	105	105	106	24
4/14	98	98	99	24	110	111	113	24	109	110	110	24	106	107	108	24	106	106	106	24
4/15	97	98	98	24	111	114	117	24	108	108	109	24	106	107	107	24	105	106	106	24
4/16	98	98	98	24	112	116	117	24	109	109	110	24	107	107	108	24	106	106	107	24
4/17	98	99	99	24	110	113	116	24	110	110	111	24	108	108	109	24	107	107	108	24
4/18	98	99	99	24	111	113	115	24	109	110	110	24	108	108	109	24	107	107	107	24
4/19	98	98	98	24	109	111	112	24	110	110	110	24	108	109	109	24	107	107	108	24
4/20	98	99	99	24	111	113	113	24	111	111	111	24	108	109	109	24	107	108	108	24
4/21	98	99	99	24	109	111	114	24	112	112	112	24	108	109	110	24	108	108	108	24
4/22	98	98	99	24	108	109	109	24	112	112	113	24	108	108	110	24	108	109	109	24
4/23	98	98	98	24	110	112	114	24	112	112	113	24	108	109	110	24	108	109	109	24
4/24	98	98	99	24	110	111	114	24	112	113	113	24	109	110	110	24	109	109	109	24
4/25	98	99	99	24	109	110	113	24	112	112	112	24	110	110	111	24	109	109	110	24
4/26	99	100	100	24	109	112	114	24	112	112	113	24	109	110	111	24	109	109	109	24

Total Dissolved Gas Saturation Data at Mid Columbia River Sites

Date	<u>Chief J. Dnst</u>			<u>Wells</u>			<u>Wells Dwnstrm</u>			<u>Rocky Reach</u>			<u>Rocky R. Tlwr</u>			#				
	<u>24 h</u>	<u>12 h</u>	#	<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>
4/13	105	105	106	24	104	104	104	24	108	110	115	24	108	109	109	24	109	109	111	24
4/14	105	106	107	24	105	105	105	24	113	117	119	24	110	111	112	24	110	112	114	24
4/15	106	107	108	24	104	104	105	24	106	106	108	24	112	113	114	24	112	113	114	24
4/16	105	106	106	24	105	105	106	23	108	109	122	23	110	112	114	24	110	111	114	24
4/17	106	107	108	24	105	105	105	9	110	110	122	9	107	108	108	24	108	108	112	24
4/18	106	106	107	24	---	---	---	0	---	---	---	0	109	110	111	24	110	111	112	24
4/19	107	107	107	24	---	---	---	0	---	---	---	0	110	111	113	24	110	112	116	24
4/20	107	107	108	24	---	---	---	0	---	---	---	0	111	112	113	24	112	113	116	24
4/21	107	107	108	24	---	---	---	0	---	---	---	0	109	109	109	24	109	109	109	24
4/22	111	115	120	24	---	---	---	0	---	---	---	0	109	109	109	24	109	109	109	24
4/23	109	111	120	24	108	109	111	16	112	114	118	16	109	109	109	24	109	109	111	24
4/24	108	108	109	24	108	108	108	24	111	111	119	24	108	108	108	24	109	111	116	24
4/25	109	109	110	24	108	108	108	24	110	111	115	24	109	111	112	24	112	114	118	24
4/26	108	109	109	24	108	108	108	24	109	110	112	24	110	110	110	24	110	111	115	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>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>
4/13	108	110	110	24	108	110	110	24	104	104	104	24	105	105	106	16	105	105	106	24
4/14	111	112	114	24	111	112	114	24	104	104	105	24	106	107	108	24	106	107	108	24
4/15	109	112	114	24	109	112	114	24	104	105	106	24	106	107	107	24	106	106	106	24
4/16	111	112	113	24	111	113	113	24	105	107	108	24	109	109	110	24	107	108	109	24
4/17	108	109	111	24	111	112	113	24	107	108	109	24	111	112	118	24	110	111	114	24
4/18	109	110	112	24	111	113	114	24	107	108	108	24	110	110	112	24	108	109	109	24
4/19	109	110	111	24	112	112	114	24	107	107	107	24	112	113	115	24	109	110	112	24
4/20	113	114	114	24	115	116	117	24	108	109	109	24	115	116	118	24	112	113	114	24
4/21	114	114	114	24	116	116	116	24	109	109	109	24	115	116	117	24	113	113	114	24
4/22	114	114	114	24	116	116	116	24	108	109	109	24	116	116	117	24	114	114	114	24
4/23	112	114	114	24	114	116	116	24	109	109	110	24	113	114	115	24	112	113	114	24
4/24	109	110	111	24	111	112	113	24	108	109	109	24	114	114	114	24	111	112	112	24
4/25	112	114	117	24	114	115	118	24	107	108	108	24	114	114	115	24	111	111	112	24
4/26	110	111	113	24	112	113	115	24	107	107	109	24	114	115	116	24	112	113	114	24

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

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

Date	<u>Priest R. Dnst</u>				<u>Pasco</u>				<u>Dworshak</u>				<u>Clrwtr-Peck</u>				<u>Anatone</u>			
	<u>24 h</u>		<u>12 h</u>		#	<u>24 h</u>		<u>12 h</u>		#	<u>24 h</u>		<u>12 h</u>		#	<u>24 h</u>		<u>12 h</u>		#
	Avg	Avg	High	hr		Avg	Avg	High	hr		Avg	Avg	High	hr		Avg	Avg	High	hr	
4/13	104	105	105	24	105	106	107	24	95	95	96	12	---	---	---	0	102	103	105	24
4/14	106	106	107	24	104	105	105	24	96	96	97	23	---	---	---	0	102	103	103	24
4/15	105	105	106	24	104	105	106	24	95	95	96	8	100	100	100	24	101	102	103	24
4/16	107	108	108	24	105	105	106	24	101	102	103	18	101	102	103	24	102	103	104	24
4/17	109	110	113	24	106	108	108	24	102	102	102	24	102	102	102	24	102	102	103	24
4/18	108	109	109	24	107	108	109	24	102	102	103	24	101	101	102	24	102	102	104	24
4/19	109	110	110	24	106	107	108	24	98	99	102	24	100	101	102	24	102	103	104	24
4/20	115	119	119	24	108	109	109	24	97	97	97	24	---	---	---	0	102	103	104	23
4/21	119	119	119	24	112	114	114	24	97	97	97	24	---	---	---	0	102	103	103	24
4/22	119	119	119	24	113	113	114	24	97	97	98	24	100	101	101	24	102	102	103	24
4/23	118	119	119	24	114	115	115	24	96	97	97	24	100	100	101	24	102	103	104	24
4/24	118	118	119	24	113	114	114	24	96	97	97	24	100	101	101	24	102	103	104	24
4/25	118	118	119	24	113	113	114	24	96	96	97	24	99	100	100	24	102	102	103	24
4/26	118	119	120	17	113	113	114	24	96	96	97	24	100	101	101	24	102	104	105	24

Total Dissolved Gas Saturation Data at Snake River Sites

Date	<u>Clrwtr-Lewiston</u>				<u>Lower Granite</u>				<u>L. Granite Tlwr</u>				<u>Little Goose</u>				<u>L. Goose Tlwr</u>			
	<u>24 h</u>		<u>12 h</u>		#	<u>24 h</u>		<u>12 h</u>		#	<u>24 h</u>		<u>12 h</u>		#	<u>24 h</u>		<u>12 h</u>		#
	Avg	Avg	High	hr		Avg	Avg	High	hr		Avg	Avg	High	hr		Avg	Avg	High	hr	
4/13	101	104	105	24	99	100	100	24	110	110	111	24	106	106	106	24	112	114	114	24
4/14	101	102	104	24	100	100	101	24	110	110	111	24	108	108	109	24	113	114	114	24
4/15	101	102	104	24	100	100	101	24	110	111	111	24	107	108	108	24	111	112	112	24
4/16	101	103	105	24	101	101	101	24	110	111	111	24	108	108	109	24	114	114	115	24
4/17	102	103	104	24	102	102	102	24	111	112	113	24	108	109	109	24	114	114	115	24
4/18	101	102	103	24	102	102	102	24	111	112	113	24	108	108	108	24	112	113	114	24
4/19	102	104	105	24	102	102	102	24	111	112	113	24	107	108	108	24	113	113	114	24
4/20	101	103	105	24	102	103	103	24	112	112	113	24	108	108	108	24	113	114	115	24
4/21	101	102	104	24	102	103	103	24	111	112	112	24	108	109	109	24	114	114	115	24
4/22	101	102	103	24	102	102	102	24	111	111	112	24	108	108	109	24	112	113	114	24
4/23	101	103	104	24	101	101	101	9	111	112	113	24	108	108	108	24	112	113	114	24
4/24	101	103	105	24	101	101	102	16	111	112	112	24	109	109	110	24	113	114	115	24
4/25	100	101	102	24	101	101	102	24	111	111	112	24	109	109	110	24	113	114	114	24
4/26	101	103	104	24	101	102	102	24	111	111	112	24	109	109	110	24	114	114	115	24

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

Date	<u>Lower Mon.</u>				<u>L. Mon. Tlwr</u>				<u>Ice Harbor</u>				<u>Ice Harbor Tlwr</u>				<u>McNary-Oregon</u>			
	<u>24 h</u>		<u>12 h</u>		#	<u>24 h</u>		<u>12 h</u>		#	<u>24 h</u>		<u>12 h</u>		#	<u>24 h</u>		<u>12 h</u>		#
	Avg	Avg	High	hr		Avg	Avg	High	hr		Avg	Avg	High	hr		Avg	Avg	High	hr	
4/13	109	110	111	24	119	120	124	24	113	114	115	24	114	115	116	24	---	---	---	0
4/14	112	112	113	24	118	120	121	24	114	114	115	24	114	115	116	24	---	---	---	0
4/15	110	110	111	24	120	120	120	24	114	114	114	24	113	114	115	24	---	---	---	0
4/16	110	110	111	24	119	120	120	24	115	116	116	24	113	113	114	24	---	---	---	0
4/17	111	111	111	24	119	120	120	24	115	115	116	24	114	114	115	24	---	---	---	0
4/18	111	111	111	24	118	119	120	24	115	115	116	24	113	114	115	24	---	---	---	0
4/19	110	111	111	24	119	120	120	24	114	114	115	24	114	115	115	24	---	---	---	0
4/20	111	111	111	24	120	121	121	24	114	115	115	24	114	115	115	24	---	---	---	0
4/21	111	111	111	24	119	120	120	24	114	115	115	24	115	115	116	24	---	---	---	0
4/22	111	111	111	24	118	119	119	24	115	115	116	24	114	115	115	24	---	---	---	0
4/23	110	111	111	24	118	119	119	24	115	115	116	24	113	114	114	24	---	---	---	0
4/24	111	111	111	24	118	119	120	24	115	115	116	24	114	114	115	24	---	---	---	0
4/25	111	111	111	24	117	119	119	24	115	115	116	24	114	114	115	24	---	---	---	0
4/26	111	111	111	24	116	116	117	24	115	115	116	24	113	114	115	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	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	AVG	High					
4/13	107	107	108	24	115	117	118	24	107	107	108	24	113	118	119	24	110	111	112	24
4/14	107	107	108	24	114	115	117	24	107	107	107	24	112	118	119	24	109	110	112	24
4/15	106	106	107	24	115	117	117	24	106	106	107	24	112	117	118	24	108	110	111	24
4/16	106	107	107	24	115	115	116	24	107	108	108	24	112	117	118	24	110	113	114	24
4/17	107	107	107	24	114	115	115	24	107	108	108	24	113	118	118	24	111	114	115	24
4/18	107	107	107	15	114	115	115	24	107	108	108	24	112	117	118	24	109	111	112	24
4/19	107	107	108	24	114	114	116	24	107	108	109	24	113	118	121	24	110	113	115	24
4/20	108	108	109	24	114	115	116	24	108	109	109	24	114	120	121	24	112	116	117	24
4/21	109	109	110	24	114	114	114	24	108	109	109	24	114	119	120	24	113	116	117	24
4/22	109	110	110	24	114	114	115	24	108	108	108	24	114	120	121	24	111	114	115	24
4/23	112	113	114	24	116	116	118	24	107	108	108	24	114	119	120	24	111	114	116	24
4/24	113	113	113	24	115	116	119	24	108	109	109	24	113	119	119	24	110	112	114	24
4/25	113	113	113	24	114	115	118	24	109	109	110	24	114	118	119	24	111	113	114	24
4/26	112	113	113	24	114	115	115	24	109	109	109	24	114	118	119	24	112	114	115	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	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	AVG	High					
4/13	115	115	116	24	112	112	113	24	114	115	115	24	114	114	115	24	119	119	120	24
4/14	113	114	115	24	114	115	115	24	116	116	117	24	114	114	114	24	118	118	118	24
4/15	113	114	115	24	110	110	111	24	113	113	114	24	113	114	114	24	118	118	119	24
4/16	114	115	116	24	111	112	112	24	114	114	115	24	112	113	113	24	117	118	118	24
4/17	114	115	116	24	112	112	112	24	114	115	115	24	113	113	114	24	118	118	118	24
4/18	113	114	116	24	110	111	111	24	114	114	115	24	112	113	113	24	117	118	118	24
4/19	114	115	118	24	111	112	112	24	115	116	117	24	113	115	116	24	117	118	118	24
4/20	116	117	118	24	113	113	114	24	115	116	117	24	114	115	116	24	118	118	118	24
4/21	116	117	118	24	114	114	115	24	116	117	117	24	113	114	115	24	118	118	118	24
4/22	115	116	118	24	114	115	115	24	116	117	117	24	114	115	116	24	118	118	118	24
4/23	114	116	117	24	112	113	113	24	115	115	116	24	114	115	116	24	117	118	118	24
4/24	115	116	117	24	112	112	112	24	115	115	116	24	113	113	114	24	117	117	117	24
4/25	115	116	117	24	112	112	113	24	115	115	116	24	113	113	113	24	117	117	117	24
4/26	116	117	118	24	112	112	113	24	115	115	115	24	114	115	115	24	117	117	118	24

Two-Week Summary of Passage Indices

* One or more of the sites on this date had an incomplete or biased sample.

See Sampling Comments: <http://www.fpc.org/currentDaily/smpcomments.htm>

For clip information see: <http://www.fpc.org/CurrentDaily/catch.htm>

For sockeye and yearling chinook (Snake only) race information see: <http://www.fpc.org/smoltqueries/currentsmptsubmitdata.asp>

COMBINED YEARLING CHINOOK											
	WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2
Date	(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)
04/13/2007 *	990	694	456	49	15,731	0	0	18	7,642	2,493	1,996
04/14/2007 *	773	642	218	135	22,681	97	3,144	292	---	3,773	21,782
04/15/2007 *	1,044	664	214	30	37,340	0	0	622	15,297	5,743	41,550
04/16/2007 *	1,419	868	423	10	21,879	321	0	480	---	7,445	34,033
04/17/2007 *	1,017	341	716	15	38,727	795	890	393	13,463	11,596	28,375
04/18/2007 *	1,365	761	302	21	36,428	372	0	142	---	14,855	24,549
04/19/2007 *	1,535	763	367	31	50,159	3,362	0	124	14,564	14,242	9,000
04/20/2007 *	1,624	299	429	14	42,473	1,775	353	1,053	---	25,958	14,484
04/21/2007 *	1,402	313	744	39	68,084	0	0	662	8,243	17,403	12,182
04/22/2007 *	1,063	292	388	1	86,633	1,623	0	252	---	19,664	14,264
04/23/2007 *	567	196	241	11	58,211	1,535	222	274	13,593	17,336	13,530
04/24/2007 *	815	483	67	21	25,525	1,829	20	0	---	18,623	18,037
04/25/2007 *	879	420	129	9	37,606	3,247	0	0	24,532	13,900	14,337
04/26/2007 *	1,263	---	86	4	32,683	791	294	0	---	19,822	15,771
04/27/2007	---	---	---	---	---	---	---	---	---	---	---
<hr/>											
Total:	15,756	6,736	4,780	390	574,160	15,747	4,923	4,312	97,334	192,853	263,890
# Days:	14	13	14	14	14	14	14	14	7	14	14
Average:	1,125	518	341	28	41,011	1,125	352	308	13,905	13,775	18,849
YTD	37,254	78,516	11,806	512	639,189	15,869	7,674	4,435	99,409	216,359	291,059

COMBINED SUBYEARLING CHINOOK											
	WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2
Date	(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)
04/13/2007 *	0	1	0	1	0	0	0	18	34	38	9,708
04/14/2007 *	0	3	0	0	0	1	0	6	---	13	262,393
04/15/2007 *	0	0	0	0	531	0	0	11	25	17	47,845
04/16/2007 *	0	0	0	0	0	0	0	3	---	0	12,803
04/17/2007 *	0	0	0	1	84	0	0	23	0	0	5,479
04/18/2007 *	0	0	0	0	0	1	0	20	---	0	2,560
04/19/2007 *	0	0	0	2	0	0	0	20	0	0	868
04/20/2007 *	0	0	0	1	89	0	0	14	---	0	1,817
04/21/2007 *	0	0	0	0	0	0	0	15	0	0	653
04/22/2007 *	0	0	0	1	0	0	0	2	---	41	410
04/23/2007 *	0	0	1	1	371	0	0	6	34	0	96
04/24/2007 *	0	0	1	1	0	0	0	0	---	0	541
04/25/2007 *	0	2	0	0	0	0	0	0	68	0	134
04/26/2007 *	0	---	0	2	0	0	0	0	---	0	179
04/27/2007	---	---	---	---	---	---	---	---	---	---	---
<hr/>											
Total:	0	6	2	10	1,075	2	0	138	161	109	345,486
# Days:	14	13	14	14	14	14	14	14	7	14	14
Average:	0	0	0	1	77	0	0	10	23	8	24,678
YTD	0	55	2	35	1,701	2	0	219	260	127	1,423,223

Two-Week Summary of Passage Indices

COMBINED COHO												
	WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2	
Date	(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	
04/13/2007	*	0	0	0	1	33	0	0	3	12	25	3,867
04/14/2007	*	0	0	0	4	131	3	0	0	---	7	3,777
04/15/2007	*	0	0	0	1	0	0	0	6	8	35	840
04/16/2007	*	0	0	0	1	89	0	0	3	---	13	3,889
04/17/2007	*	0	0	0	0	335	6	2	0	24	36	2,544
04/18/2007	*	0	0	0	2	266	6	0	0	---	75	5,643
04/19/2007	*	0	0	0	0	171	100	0	64	25	70	3,243
04/20/2007	*	0	0	0	2	178	14	2	42	---	36	3,633
04/21/2007	*	0	0	0	6	343	0	0	31	85	43	2,987
04/22/2007	*	0	0	0	0	536	17	0	2	---	47	2,667
04/23/2007	*	0	0	0	0	0	14	5	14	85	97	2,831
04/24/2007	*	0	0	0	0	175	14	0	0	---	124	6,094
04/25/2007	*	0	0	0	1	0	43	0	0	3,016	121	4,053
04/26/2007	*	0	---	0	1	0	3	0	0	---	224	3,943
04/27/2007		---	---	---	---	---	---	---	---	---	---	---
<hr/>												
Total:		0	0	0	19	2,257	220	9	165	3,255	953	50,011
# Days:		14	13	14	14	14	14	14	14	7	14	14
Average:		0	0	0	1	161	16	1	12	465	68	3,572
YTD		0	0	0	25	2,656	220	9	195	3,286	1,011	63,513

COMBINED STEELHEAD												
	WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2	
Date	(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	
04/13/2007	*	28	1,187	56	57	3,414	0	0	5	1,121	1,452	314
04/14/2007	*	56	607	20	37	4,668	98	254	17	---	1,416	0
04/15/2007	*	80	573	16	18	6,282	0	0	19	837	1,293	1,680
04/16/2007	*	109	607	8	11	7,948	311	0	15	---	1,117	324
04/17/2007	*	79	303	11	24	7,712	1,394	92	46	1,009	1,495	196
04/18/2007	*	52	499	13	40	7,592	469	0	17	---	1,427	553
04/19/2007	*	79	434	154	124	6,933	4,993	0	15	1,173	972	503
04/20/2007	*	108	353	33	109	6,322	2,515	345	23	---	1,454	765
04/21/2007	*	76	348	22	40	17,471	0	0	21	4,441	883	653
04/22/2007	*	78	197	20	12	30,724	2,173	0	30	---	1,480	393
04/23/2007	*	70	254	10	42	18,168	1,700	506	45	4,468	2,065	432
04/24/2007	*	129	802	6	21	34,617	2,048	202	0	---	2,200	491
04/25/2007	*	99	783	9	11	14,712	3,918	0	0	6,338	2,129	639
04/26/2007	*	207	---	11	8	13,309	668	309	0	---	3,087	762
04/27/2007		---	---	---	---	---	---	---	---	---	---	---
<hr/>												
Total:		1,250	6,947	389	554	179,872	20,287	1,708	253	19,387	22,470	7,705
# Days:		14	13	14	14	14	14	14	14	7	14	14
Average:		89	534	28	40	12,848	1,449	122	18	2,770	1,605	550
YTD		1,828	9,255	460	713	193,174	20,409	1,839	284	21,000	25,646	10,721

Two-Week Summary of Passage Indices

COMBINED SOCKEYE												
	WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2	
Date	(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	
04/13/2007	*	0	0	0	67	0	0	62	145	13	0	
04/14/2007	*	0	0	0	0	6	0	190	---	46	0	
04/15/2007	*	0	0	0	88	0	0	170	93	26	0	
04/16/2007	*	0	0	0	0	1	0	174	---	66	0	
04/17/2007	*	0	0	0	168	4	0	152	161	36	0	
04/18/2007	*	0	0	0	0	4	0	144	---	42	0	
04/19/2007	*	0	0	0	0	0	0	191	386	0	91	
04/20/2007	*	0	0	0	0	7	0	206	---	254	48	
04/21/2007	*	0	0	0	0	0	0	157	390	43	0	
04/22/2007	*	0	0	0	0	0	0	59	---	277	0	
04/23/2007	*	0	0	0	0	0	3	134	696	241	0	
04/24/2007	*	0	0	0	0	1	0	0	---	210	0	
04/25/2007	*	0	0	0	0	0	0	0	645	80	16	
04/26/2007	*	0	---	0	1	0	0	0	---	252	45	
04/27/2007		---	---	---	---	---	---	---	---	---	---	
Total:		0	0	0	1	323	23	3	1,639	2,516	1,586	200
# Days:		14	13	14	14	14	14	14	14	7	14	14
Average:		0	0	0	0	23	2	0	117	359	113	14
YTD		1	0	0	1	560	23	6	1,837	2,647	1,635	253

* 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:

4/27/07 9:33 AM

		Species					
		04/13/07 TO 04/27/07					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	600	328,537	1,300	190	102,693	433,320
	Sum of NumberBarged	18	77,543	272	0	25,058	102,891
	Sum of NumberBypassed	579	250,694	1,028	190	77,614	330,105
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of SampleMorts	3	19	0	0	2	24
	Sum of FacilityMorts	0	101	0	0	19	120
	Sum of ResearchMorts	0	180	0	0	0	180
	Sum of TotalProjectMorts	3	300	0	0	21	324
LGS	Sum of NumberCollected	4	11,655	156	21	14,997	26,833
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	3	11,630	156	19	14,994	26,802
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of SampleMorts	0	15	0	1	2	18
	Sum of FacilityMorts	1	10	0	1	1	13
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	1	25	0	2	3	31
LMN	Sum of NumberCollected		2,297	4	1	763	3,065
	Sum of NumberBarged		0	0	0	0	0
	Sum of NumberBypassed		2,295	4	1	762	3,062
	Sum of Numbertrucked		0	0	0	0	0
	Sum of SampleMorts		2	0	0	1	3
	Sum of FacilityMorts		0	0	0	0	0
	Sum of ResearchMorts		0	0	0	0	0
	Sum of TotalProjectMorts		2	0	0	1	3
MCN	Sum of NumberCollected	95	57,463	1,921	1,484	11,440	72,403
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	95	57,403	1,921	1,481	11,433	72,333
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of SampleMorts	0	25	0	0	3	28
	Sum of FacilityMorts	0	29	0	3	4	36
	Sum of ResearchMorts	0	6	0	0	0	6
	Sum of TotalProjectMorts	0	60	0	3	7	70
Total Sum of NumberCollected		699	399,952	3,381	1,696	129,893	535,621
Total Sum of NumberBarged		18	77,543	272	0	25,058	102,891
Total Sum of NumberBypassed		677	322,022	3,109	1,691	104,803	432,302
Total Sum of Numbertrucked		0	0	0	0	0	0
Total Sum of SampleMorts		3	61	0	1	8	73
Total Sum of FacilityMorts		1	140	0	4	24	169
Total Sum of ResearchMorts		0	186	0	0	0	186
Total Sum of TotalProjectMorts		4	387	0	5	32	428

YTD Transportation Summary

Source: Fish Passage Center

Updated:

4/27/07 9:33 AM

TO: 04/27/07

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	970	364,909	1,560	360	111,481	479,280
	Sum of NumberBarged	152	90,851	308	9	26,017	117,337
	Sum of NumberBypassed	812	273,735	1,252	351	85,440	361,590
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	5	29	0	0	4	38
	Sum of FacilityMorts	1	114	0	0	20	135
	Sum of ResearchMorts	0	180	0	0	0	180
	Sum of TotalProjectMorts	6	323	0	0	24	353
LGS	Sum of NumberCollected	4	11,740	156	21	15,081	27,002
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	3	11,715	156	19	15,078	26,971
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	0	15	0	1	2	18
	Sum of FacilityMorts	1	10	0	1	1	13
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	1	25	0	2	3	31
LMN	Sum of NumberCollected		3,438	4	2	818	4,262
	Sum of NumberBarged		0	0	0	0	0
	Sum of NumberBypassed		3,434	4	2	816	4,256
	Sum of NumberTrucked		0	0	0	0	0
	Sum of SampleMorts		4	0	0	2	6
	Sum of FacilityMorts		0	0	0	0	0
	Sum of ResearchMorts		0	0	0	0	0
	Sum of TotalProjectMorts		4	0	0	2	6
MCN	Sum of NumberCollected	175	58,767	1,939	1,575	12,547	75,003
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	174	58,699	1,939	1,572	12,537	74,921
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	1	31	0	0	5	37
	Sum of FacilityMorts	0	31	0	3	5	39
	Sum of ResearchMorts	0	6	0	0	0	6
	Sum of TotalProjectMorts	1	68	0	3	10	82
Total Sum of NumberCollected		1,149	438,854	3,659	1,958	139,927	585,547
Total Sum of NumberBarged		152	90,851	308	9	26,017	117,337
Total Sum of NumberBypassed		989	347,583	3,351	1,944	113,871	467,738
Total Sum of NumberTrucked		0	0	0	0	0	0
Total Sum of SampleMorts		6	79	0	1	13	99
Total Sum of FacilityMorts		2	155	0	4	26	187
Total Sum of ResearchMorts		0	186	0	0	0	186
Total Sum of TotalProjectMorts		8	420	0	5	39	472

Cumulative Adult Passage at Mainstem Dams Through: 04/26

DAM	EndDate	Spring Chinook						Summer Chinook						Fall Chinook					
		2007		2006		10-Yr Avg.		2007		2006		10-Yr Avg.		2007		2006		10-Yr Avg.	
		Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack
BON	04/26	21024	448	1559	5	80700	734	0	0	0	0	0	0	0	0	0	0	0	0
TDA	04/25	9107	122	232	-1	44877	267	0	0	0	0	0	0	0	0	0	0	0	0
JDA	04/25	5684	72	133	-2	33033	151	0	0	0	0	0	0	0	0	0	0	0	0
MCN	04/24	1853	22	28	0	22145	105	0	0	0	0	0	0	0	0	0	0	0	0
IHR	04/24	562	12	1	0	13641	41	0	0	0	0	0	0	0	0	0	0	0	0
LMN	04/22	-2	2	0	0	7627	11	0	0	0	0	0	0	0	0	0	0	0	0
LGS	04/24	19	0	1	0	8449	44	0	0	0	0	0	0	0	0	0	0	0	0
LGR	04/25	32	2	0	0	7491	11	0	0	0	0	0	0	0	0	0	0	0	0
PRD	04/25	40	0	9	0	2257	0	0	0	0	0	0	0	0	0	0	0	0	0
RIS	04/25	7	0	2	0	723	1	0	0	0	0	0	0	0	0	0	0	0	0
RRH	04/25	2	0	0	0	95	0	0	0	0	0	0	0	0	0	0	0	0	0
WEL	04/25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WFA	04/24	1054	18	1464	0	-	-	0	0	0	0	-	-	0	0	0	0	-	-

DAM	Coho						Sockeye			Steelhead			
	2007		2006		10-Yr Avg.		10-Yr		Avg.	10-Yr		Wild 2007	
	Adult	Jack	Adult	Jack	Adult	Jack	2007	2006		2007	2006		
BON	0	0	0	0	0	0	0	0	0	1741	1483	2076	551
TDA	0	0	0	0	0	0	0	0	0	997	946	785	372
JDA	0	0	0	0	0	0	0	0	0	1553	2047	2487	651
MCN	0	0	0	0	0	0	0	0	0	1613	1931	1358	469
IHR	0	0	0	0	0	0	0	0	0	2101	2497	1628	537
LMN	0	0	0	0	0	0	0	0	0	2065	2451	1591	687
LGS	0	0	0	0	0	0	0	0	0	1993	2383	1843	633
LGR	0	0	0	0	0	0	0	0	0	10259	7172	6435	2226
PRD	0	0	0	0	0	0	0	0	0	7	15	2	0
RIS	0	0	0	0	0	0	0	0	0	15	31	19	4
RRH	0	0	0	0	0	0	0	0	0	71	95	79	29
WEL	0	0	0	0	0	0	0	0	0	0	0	0	0
WFA	2	0	0	0	-	-	0	0	-	5092	5826	-	-

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: 04/27/07

BON counts from January 1, 2006 to March 14, 2006 (our traditional counts begin March 15):

Year	Chinook Adult	Chinook Jack	Steelhead	Wild Steelhead
2007	22	0	1,677	517
2006	2	0	2,523	239