



Fish Passage Center Weekly Report #08 - 09

May 2, 2008

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Summary of Events:

Water Supply: Precipitation throughout the Columbia Basin has varied between 29% and 80% of average at individual sub-basins during April. Precipitation above The Dalles has been 59% of average during 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 2008 April 1-28		Water Year 2008 October 1, 2007 to April 1-28, 2008	
	Observed (inches)	% Average	Observed (inches)	% Average
Columbia Above Coulee	1.03	67	16.02	101
Snake River Above Ice Harbor	0.72	53	12.04	103
Columbia Above The Dalles	0.91	59	16.04	101
Kootenai	1.06	65	15.49	96
Clark Fork	0.62	53	10.81	107
Flathead	1.07	72	13.25	97
Pend Oreille/Spokane	1.31	62	23.28	104
Central Washington	0.18	31	4.75	73
Snake River Plain	0.29	29	5.89	83
Salmon/Boise/Payette	0.76	51	15.06	106
Clearwater	1.70	68	21.64	103
SW Washington	3.24	65	54.05	92
Cascades/Cowlitz				
Willamette Valley	3.62	80	52.11	105

Snowpack within the Columbia Basin is above average. Average snowpack in the Columbia River for basins above the Snake River confluence is 127% of average, for Snake River Basins the average snowpack is 125% of average, and for

lower Columbia Basins between McNary and Bonneville Dam average snowpack is 269% of average.

Table 2 displays the April Final and May Early runoff volume forecasts for multiple reservoirs. Water Supply Forecasts decreased slightly between the April Final and May Early forecasts. The current forecast (May Early) at The Dalles between January and July is 98200 Kaf (92% 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)	94	101000	92	98200
Grand Coulee (Jan-July)	97	61200	95	59900
Libby Res. Inflow, MT (Jan-July)	96	6080	94	5940
Hungry Horse Res. Inflow, MT (Jan-July)	96	2140	94	2090
Lower Granite Res. Inflow (Apr-July)	108	23300	103	22200
Brownlee Res. Inflow (Apr-July)	86	5400	78	4950
Dwrrshak Res. Inflow (Apr-July)	120	3160	116	3060

The Biological Opinion flow period began on April 3rd in the lower Snake River (Lower Granite) and began on April 10th in the mid (Priest Rapids) and lower (McNary) Columbia River. According to the April Final Water Supply Forecast, the flow objectives this spring are 100 Kcfs at Lower Granite, 260 Kcfs at McNary, and 135 Kcfs at Priest Rapids. Generally, flows have increased slightly over the last week. Flows at Lower Granite Dam have averaged 62.3 Kcfs over the last week and 55.1 Kcfs over the spring season, flows at Priest Rapids have averaged 122.3 Kcfs over the last week and 99.2 Kcfs over the spring season and flows at McNary have averaged 193.4 Kcfs over the last week and 167.5 Kcfs over the spring season.

Grand Coulee Reservoir is at 1229.3 feet (5-1-08) and has drafted 6.0 feet in the last week. The end of April FC elevation at Grand Coulee based on the April Final forecast was 1228.8 feet, Grand Coulee ended April 30th at 1230.0 feet . Outflows at Grand Coulee have ranged between 78.8 and 116.2 Kcfs over the last week.

The Libby Reservoir is currently at elevation 2395.9 feet (5-1-08) and refilled 0.5 feet last week. The end of April FC elevation at Libby based on the April Final forecast was 2402.2 feet, Libby ended April 30th at 2395.7 feet. Outflows at Libby are still the 4.0 Kcfs minimum.

Hungry Horse is currently at an elevation of 3499.4 ft (5-1-08) and has drafted 0.9 feet last week. The end of April FC elevation at Hungry Horse based on the April Final forecast was 3521.3 feet, Hungry Horse ended April 30th at 3499.3 feet. Outflows at Hungry Horse have ranged between 4.6 and 4.7 Kcfs over the last week.

Dworshak is currently at an elevation of 1475.7 feet (5-1-08) and drafted 2.4 feet last week; outflows at Dworshak have been 10.7 Kcfs. The end of April FC at Dworshak was 1493.7 feet, Dworshak ended April 30th at 1476.1 feet. At the April 30th, 2008 TMT Meeting, it was agreed that outflows at Dworshak would remain at approximately 10.7 Kcfs for the next week.

The Brownlee Reservoir was at an elevation of 2028.1 feet on May 1st, 2008, refilling 1.3 feet

last week. Outflows at Brownlee Dam have been 11.7 to 20.7 Kcfs over the last week. The end of April FC elevation at Brownlee based on the April Final forecast was 2033.8 feet, Brownlee ended April 30th at 2026.7 feet.

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 20.4 Kcfs. The Court ordered 14 days of nighttime gas cap spill at Little Goose Dam began at 1800 hours on April 25, 2008. Since then, Little Goose Dam has been meeting the 30% spill during daytime hours and spill to the gas cap at night. Gas cap at Little Goose Dam has been approximately 30 Kcfs. By the evening of April 25th, the gas cap at Lower Monumental Dam was 27 Kcfs but gradually decreased to about 22 Kcfs by April 30th. The decrease was based on the TDG readings at the Ice Harbor forebay, which began exceeding the 115% waiver on April 28th. TDG at the Ice Harbor forebay continued to exceed the 115% waiver for three days (April 28, 29, and 30th). Since the last exceedence on April 30th, spill at Lower Monumental Dam has gradually increased. Currently, the instantaneous spill level at Lower Monumental Dam is approximately 24 Kcfs. Spill at Ice Harbor Dam has met the court ordered 45 Kcfs daytime spill and gas cap nighttime spill. The 30%/30% spill level for the Ice Harbor study is anticipated to begin on May 2, 2008.

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	100 Kcfs/100 Kcfs

Spill at McNary and The Dalles dams met the Court ordered spill this past week. John Day Dam began spilling 30% of instantaneous flow for 24 hours daily on April 21st and has continued spilling this amount over the past week. TSW testing began on April 29th. During TSW testing, spill at John Day Dam will alternate between 30% of instantaneous flow for 24 hours and 40% of instantaneous flow for 24 hours. The 40% of instantaneous spill treatment is anticipated to begin at 0600 hours on May 2, 2008. Spill at Bonneville Dams has been close to the Court's Order of 100 Kcfs. The Camas/Washougal gauge exceeded the 115% on April 28th and 29th but spill at Bonneville Dam was not reduced below 98 Kcfs during this time.

There were several exceedances of the TDG waiver throughout the hydrosystem this week. The Lower Monumental forebay gauge exceeded the 115% waiver on April 28th and 29th. It was determined that these exceedances were mostly due to the spill pattern at Little Goose Dam, particularly during the nighttime gas cap spill. To avoid this in the future, it was decided that Little Goose Dam will use a uniform spill pattern when meeting the nighttime gas cap spill. As mentioned above, the Ice Harbor forebay monitor exceeded the 115% waiver from April 28-30. Spill at Lower Monumental Dam was reduced during this time. The Bonneville forebay monitor exceeded the 115% criteria on April 28th. However, spill at The Dalles was not reduced and there were no further exceedances at this gauge. Finally, Camas/Washougal exceeded 115% on April 28 and 29th. However, spill at Bonneville Dam was not reduced below 98 Kcfs during this time.

Gas bubble trauma (GBT) monitoring occurred at all the Snake River sites, Rock Island Dam and at Bonneville Dam. There were no observations of GBT at Lower Granite, Lower

Monumental, or McNary dams this week. At Little Goose Dam 1 of 100 (1%) fish sampled were observed with minor signs of GBT. Bonneville Dam sampled for GBT on April 26th and April 29th and on each day had a 1% occurrence of minor signs of GBT (1 of 100 fish). Finally, on May 1st, Rock Island Dam had a 5% (5 of 100 fish) occurrence of minor signs of GBT.

Smolt Monitoring: Relatively large numbers of smolts were captured at SMP traps over the past week as hatchery releases and wild out-migrants continued passing the traps steadily. Smolt passage continued to pick up in the hydro-system this past week as well; with daily passage indices at Lower Granite Dam averaging 40,000 yearling Chinook and 55,000 per day for steelhead smolts. Transport began at Low Granite dam May 1st.

At the Salmon River Trap this week the catch was predominantly hatchery origin yearling Chinook. A large increase in catch occurred on May 1 as nearly 3100 yearling Chinook were collected at the trap. PIT-tag recaptures of yearling Chinook were primarily from releases at Rapid River Hatchery and Knox Bridge (McCall Hatchery). Flows in the Salmon River, as measured at the USGS gage at White Bird, varied between 8 Kcfs and 16 Kcfs this past week. Flows peaked on May 1 at 16 Kcfs (reaching historic average for that date) and began to decline today as cooler temperatures again reduced snowmelt.

At the Imnaha River Trap the numbers of yearling Chinook and steelhead captured declined steadily through April 27-the last date for which we have data.

At the Grande Ronde Trap they captured 1,500 yearling Chinook on April 20 and April 21. Those fish were almost entirely hatchery origin fish (either ad-clipped or coded wire tagged). Since April 21 the catch of Chinook smolts has declined at the trap. Steelhead catch increased this past week, with collection peaking at 718 fish on May 1. Flows on the Grande Ronde River have increased over the past week to around 9000 cfs between April 29 and 30 which was well above historic average of 6000 cfs for this date.

At the Lewiston Trap on the Snake River IDFG crews began to catch increasing numbers of

yearling Chinook and steelhead this past week. The highest catch for the season to date occurred this week for both species with the capture of 272 yearling Chinook on April 30 and over 800 steelhead on May 1. Flows fluctuated around 40 Kcfs throughout the week, similar to last week but lower than historic average which would have been nearer 50 Kcfs.

At Lower Granite Dam the daily passage indices for yearling Chinook rose to 78,000 fish on April 30, but the weekly average was about the same as last week at near 40,000 fish per day. Steelhead indices were higher this week, averaging 54,000 per day compared to just over 36,000 per day last week, with a peak daily index of 92,000 on April 30.

At Little Goose Dam SMP crews have captured relatively large numbers of steelhead compared to yearling Chinook. Steelhead indices reached 137,000 on April 30, while yearling Chinook indices rose to a season high of 38,000 on May 1.

The higher passage indices at Little Goose Dam compared to Lower Granite Dam were what prompted the development of population indices for both sites. For example, the cumulative population index for steelhead passing Lower Granite Dam the past two weeks totaled an estimated 3.2 million, while for yearling Chinook the cumulative index was estimated at 1.9 million. Full 24 hour samples at Little Goose began April 29 so that comparisons to Lower Granite Dam total population are not possible. However the population indices at Little Goose for yearling Chinook and steelhead also reflect higher steelhead numbers passing that project at this time with the total estimated population index for the period April 29 to May 1 for steelhead at 640,000 while for chinook it was 475,000.

Sampling continues at Lower Monumental Dam in support of research marking.

In the lower River at McNary, John Day and Bonneville dams passage indices for all spring migrants continued to increase. Yearling Chinook and steelhead indices rose to a seasonal high of 11,400 and 16,800 (respectively) at McNary on their most recent sampling date (April 30).

Coho and Sockeye passage indices increased as well over the past week at all sites.

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. Approximately 140,000 sockeye juveniles were scheduled for release this week. Half of these sockeye were to be released into Redfish Lake, while the other half were to be released into the Salmon River. There were several releases of summer steelhead that were scheduled to end this week. In all, these releases are anticipated to total about 2.65 million steelhead juveniles. Of these, 55.5% were being released to the Salmon River, while 32.4% and 12.1% were being released to the Pahsimeroi and Grande Ronde rivers, respectively. There were no other releases of juvenile salmonids scheduled for this week.

Approximately 400,000 subyearling fall Chinook are scheduled for release into this zone, beginning May 4th. These subyearling Chinook are scheduled for release into the Clearwater (50%) and Snake (50%) rivers. The subyearling Chinook scheduled for release into the Snake River will be released below Hells Canyon Dam. Two releases of summer steelhead are scheduled to begin over the next two weeks. In all, these releases are expected to total approximately 220,000 summer steelhead juveniles. Of these, 55% are scheduled for release into the Wallowa River, while the remaining 45% will be released to the Salmon River.

Mid-Columbia Zone: The Mid-Columbia Zone encompasses the area of the Columbia River and its tributaries from McNary Dam to Chief Joseph Dam. Beginning this week, nearly 1.07 million yearling summer Chinook juveniles were scheduled for release to this zone. Of these, 87% were scheduled for release from the Dryden Acclimation ponds on the Wenatchee River while the remaining 13% were scheduled for release into the Mid-Columbia River. Several volitional releases of juvenile coho to the Methow, Wenatchee, and Yakima rivers continued this week. These re-

leases are part of the Yakama Tribal Program to re-establish coho runs to these basins. In all, this program expects to release 2.5 million coho this year. A release of approximately 68,000 summer steelhead juveniles to the Touchet River and a release of about 20,000 juveniles to the Okanogan River were scheduled to end this week. In addition, several releases of summer steelhead juveniles to the Wenatchee River basin were scheduled to begin this week. In all, these releases are expected to total nearly 330,000 juveniles. All of these juveniles are tagged with pink or green Elastomer tags.

Approximately 110,000 subyearling fall Chinook juveniles are scheduled for release into the Yakima River, beginning May 9th. Several volitional releases of yearling spring Chinook to the Wenatchee and Yakima rivers are scheduled to end in mid-May. In addition, several volitional releases of yearling summer Chinook to the Methow, Okanogan, and Mid-Columbia rivers are scheduled to end over the next two weeks. Finally, several releases of summer steelhead to the Methow and Okanogan rivers are scheduled to end over the next two weeks. These releases began in late April and are expected to total about 448,000 juveniles. In addition to these, a release of nearly 119,000 summer steelhead to the Methow River is scheduled to begin next week.

Lower Columbia Zone: The Lower Columbia Zone is defined as the Columbia River and its tributaries from Bonneville Dam to McNary Dam. Approximately 150,000 summer steelhead juveniles were scheduled for release into the Umatilla River this week. In addition, nearly 30,000 winter steelhead were scheduled for release into Hood River, beginning April 25th.

Spring Creek NFH released nearly 3.5 million subyearling fall chinook Tules on May 2nd. This was the final release of subyearling fall chinook Tules from Spring Creek this year. Approximately 600,000 subyearling fall Chinook are scheduled for release into the Umatilla River, beginning May 15th. A volitional release of about 72,000 yearling spring Chinook to Hood River is scheduled to end next week. This release began on April 23rd. Beginning May 7th, nearly 1.1 million

coho juveniles are scheduled for release into the Klickitat River. Finally, several releases of summer and winter steelhead to the White Salmon, Hood, and Klickitat rivers are scheduled to end over the next two weeks. In all, these releases are expected to total nearly 119,000 summer steelhead and 49,000 winter steelhead juveniles.

Adult Fish Passage:

Adult counts at Bonneville Dam have been updated through May 1st. Between March 15th and May 1st, 43,258 adult spring Chinook had passed Bonneville Dam. Daily adult spring Chinook counts at Bonneville ranged from 1,514 to 6,645. The 2008 count was about 1.3 times larger than the 2007 adult spring Chinook count of 33,057 at Bonneville Dam but is only 44.1% of the ten year average. The 2008 Bonneville adult steelhead count was 1,919 fish, as of May 1st, which was a difference of 41 fish when compared to the 2007 count of 1,878 fish. The 2008 wild steelhead count at Bonneville Dam was 682 fish. At Willamette Falls Dam, the 2008 count for steelhead was 4,530, as of May 1st. This year's steelhead count is about 76.3% of the 2007 count of 5,933 at Willamette Falls Dam.

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 ranged from 35 to 84 adult steelhead last week. The total steelhead count passing at Lower Granite Dam as of April 30th was 7,224. The 2008 count was about 69.6% of the 2007 count of 10,371. The 2008 Lower Granite adult steelhead count had 18 fewer fish than the 10-year average count of 7,242. The 2008 wild steelhead count at Lower Granite Dam as of April 30th was 2,118. At Rock Island Dam, as of April 30th, 150 adult steelhead had been counted and at Rocky Reach Dam 282 adult steelhead had been counted so far this season.

Erik Robinson, a writer for The Columbian, wrote in an article published on April 29th that state authorities had trapped 13 pinnipeds so far this season. State officials will continue to trap problem sea lions through the end of May, since a large

portion of the spring Chinook and steelhead runs have yet to arrive at the dam.

In an article in the Oregonian posted by the Associated Press on April 29th, a 1,454-pound California sea lion captured below Bonneville Dam last week died during an exam at Point Defiance Zoo and Aquarium in Tacoma. The death of a sea lion after a health exam is an unusual occurrence. The sea lion was anesthetized and did not resume breathing after the health exam. Officials are evaluating the animal carcass and blood samples to determine the cause of its death.

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
04/18/2008	78.9	0.0	75.0	0.0	75.1	5.7	72.7	0.0	71.6	8.2	70.5	0.0	70.1	0.0
04/19/2008	69.0	0.0	66.5	0.0	74.7	5.7	70.7	0.0	71.4	7.3	84.0	0.0	79.5	0.0
04/20/2008	52.3	0.0	56.4	0.0	60.3	5.3	59.5	0.0	64.6	7.3	68.6	0.0	71.3	0.0
04/21/2008	106.6	0.0	108.9	0.0	108.4	8.1	103.9	0.0	99.9	10.6	92.3	0.0	85.9	0.0
04/22/2008	108.2	0.0	108.0	0.0	113.4	8.2	108.1	0.0	102.4	8.3	114.9	0.0	118.4	0.0
04/23/2008	106.3	0.0	110.3	0.0	114.9	8.2	111.2	0.1	110.8	10.0	117.3	0.0	112.0	0.0
04/24/2008	112.9	0.0	117.3	0.0	126.0	8.5	127.3	0.0	129.8	10.3	131.2	0.0	125.2	0.0
04/25/2008	116.9	0.0	116.8	0.0	120.0	7.8	116.6	0.0	119.5	10.2	145.5	0.0	149.7	0.0
04/26/2008	113.4	0.0	107.0	0.0	121.7	8.4	121.6	0.0	125.9	9.8	125.1	0.0	122.6	0.0
04/27/2008	112.6	0.0	122.9	19.2	117.7	8.1	112.1	0.0	114.1	9.0	112.4	0.0	117.9	0.0
04/28/2008	116.2	0.0	113.8	0.0	116.6	7.9	111.7	0.0	114.0	10.5	124.3	0.0	122.0	0.0
04/29/2008	99.7	0.0	105.8	0.0	111.2	7.9	111.6	0.0	116.1	12.6	124.7	0.0	119.2	0.0
04/30/2008	78.8	0.0	70.6	0.0	95.0	6.5	92.3	0.0	97.1	13.0	105.9	7.5	107.4	0.0
05/01/2008	100.9	0.0	108.0	0.0	101.0	6.7	96.0	0.0	97.8	12.4	117.9	17.8	117.1	9.1

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
04/18/2008	11.0	0.0	18.1	21.1	63.0	20.3	62.3	18.4	61.2	25.0	64.5	43.5		
04/19/2008	10.6	0.0	18.2	23.0	65.1	20.6	62.9	18.9	60.5	25.3	66.3	46.0		
04/20/2008	10.6	0.0	18.0	23.7	66.6	20.5	66.7	20.1	63.4	27.4	67.1	47.8		
04/21/2008	10.7	0.0	17.2	23.2	65.9	20.5	66.5	19.9	65.9	27.4	71.9	53.9		
04/22/2008	10.7	0.0	16.0	15.2	57.9	20.5	57.5	17.1	53.3	26.8	57.2	42.2		
04/23/2008	10.7	0.0	15.5	15.5	51.5	20.3	49.6	14.9	47.5	25.3	52.5	40.4		
04/24/2008	10.6	0.0	16.8	22.0	53.9	20.4	54.6	16.4	52.6	23.6	57.2	41.4		
04/25/2008	10.6	0.0	16.0	20.4	60.2	20.4	59.7	21.0	56.7	24.3	63.1	49.0		
04/26/2008	10.7	0.0	15.2	21.6	56.1	20.4	53.5	22.9	51.8	25.3	56.3	44.9		
04/27/2008	10.7	0.0	15.7	19.0	58.3	20.3	57.7	23.0	54.5	25.3	58.7	46.1		
04/28/2008	10.7	0.0	15.8	21.4	55.2	20.2	54.9	22.6	50.8	24.5	54.8	42.1		
04/29/2008	10.7	0.0	17.7	14.7	67.2	20.4	65.6	25.7	62.9	22.9	67.7	48.9		
04/30/2008	10.7	0.0	18.1	14.2	71.2	20.4	71.6	26.6	68.6	21.5	74.3	55.5		
05/01/2008	10.7	0.0	---	---	67.7	20.4	66.1	27.9	66.3	22.5	73.6	49.8		

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

Date	McNary		John Day		The Dalles		Bonneville			
	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	PH1	PH2
04/18/2008	140.0	56.3	137.3	43.6	140.1	56.1	158.1	100.2	0.0	46.5
04/19/2008	151.6	60.9	142.9	45.9	138.0	55.1	145.7	100.3	0.0	34.0
04/20/2008	152.6	61.6	153.0	47.2	147.9	59.3	160.7	100.9	0.0	48.4
04/21/2008	168.1	67.8	175.2	37.7	175.7	70.3	192.0	100.3	5.5	74.8
04/22/2008	176.0	71.2	171.5	52.0	168.7	67.6	208.1	99.3	16.4	80.9
04/23/2008	181.1	73.0	168.8	51.2	165.7	66.3	183.1	98.1	0.0	73.5
04/24/2008	193.1	77.6	195.0	59.1	182.4	72.7	200.9	98.2	1.7	89.6
04/25/2008	219.0	87.7	227.9	68.9	216.6	86.1	205.4	98.8	5.0	90.3
04/26/2008	210.1	84.3	206.0	61.7	197.0	78.7	213.5	100.6	6.4	95.1
04/27/2008	169.7	68.0	157.5	47.4	154.8	61.9	185.0	99.5	1.3	72.8
04/28/2008	179.1	72.0	186.7	56.4	178.4	71.2	198.1	99.1	11.0	76.6
04/29/2008	184.1	73.9	167.7	51.1	165.5	66.3	186.5	98.9	0.9	75.3
04/30/2008	191.1	76.4	190.2	57.3	179.8	71.6	183.6	99.3	0.0	72.8
05/01/2008	200.9	80.4	206.8	62.3	198.9	79.7	223.4	99.8	10.0	102.3

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											
	04/22/08	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	04/29/08	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
Little Goose Dam											
	04/29/08	Chinook + Steelhead	100	1	1	1.00%	0.00%	1	0	0	0
Lower Monumental Dam											
	04/28/08	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
McNary Dam											
	04/24/08	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	04/28/08	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
Bonneville Dam											
	04/22/08	Chinook + Steelhead	102	0	0	0.00%	0.00%	0	0	0	0
	04/26/08	Chinook + Steelhead	100	1	1	1.00%	0.00%	1	0	0	0
	04/29/08	Chinook + Steelhead	100	1	1	1.00%	0.00%	1	0	0	0
Rock Island Dam											
	04/24/08	Chinook + Steelhead	50	2	2	4.00%	0.00%	2	0	0	0
	05/01/08	Chinook + Steelhead	100	5	5	5.00%	0.00%	5	0	0	0

HATCHERY RELEASE LAST TWO WEEKS

Hatchery Release Summary

From: **4/18/2008** to **05/01/08**

Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
Colville Tribe	Cassimer Bar Hatchery	ST	SU	2008	20,000	04-04-08	04-30-08	Omak Creek	Okanogan River
Colville Tribe Total					20,000				
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2008	30,000	04-11-08	04-27-08	Yankee Fk (Salmon R)	Salmon River (ID)
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2008	30,733	04-14-08	04-27-08	Pahsimeroi River	Pahsimeroi River
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2008	31,975	04-22-08	04-22-08	Slate Creek	Salmon River (ID)
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2008	50,000	04-28-08	04-29-08	Valley Creek	Salmon River (ID)
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2008	60,000	04-11-08	04-27-08	Yankee Fk (Salmon R)	Salmon River (ID)
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2008	60,000	04-30-08	04-30-08	East Fk Salmon River	Salmon River (ID)
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2008	60,000	05-01-08	05-01-08	Slate Creek	Salmon River (ID)
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2008	62,315	04-24-08	04-24-08	Squaw Creek	Salmon River (ID)
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2008	70,667	04-18-08	04-23-08	Salmon River (ID)	Salmon River (ID)
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2008	183,586	04-23-08	04-25-08	Squaw Creek	Salmon River (ID)
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2008	226,648	04-18-08	04-22-08	East Fk Salmon River	Salmon River (ID)
Idaho Dept. of Fish and Game	Niagara Springs	ST	SU	2008	55,000	04-01-08	04-24-08	Little Salmon River	Salmon River (ID)
Idaho Dept. of Fish and Game	Niagara Springs	ST	SU	2008	830,000	04-10-08	04-29-08	Pahsimeroi River	Pahsimeroi River
Idaho Dept. of Fish and Game	Oxbow-Idaho	SO	UN	2008	70,000	05-01-08	05-01-08	Redfish Lake Creek	Salmon River (ID)
Idaho Dept. of Fish and Game	Rapid River Hatchery	CH1	SP	2008	2,500,000	03-17-08	04-25-08	Rapid River Hatchery	Little Salmon River
Idaho Dept. of Fish and Game	Sawtooth Hatchery	CH1	SP	2008	174,132	04-24-08	04-25-08	Salmon River (ID)	Salmon River (ID)
Idaho Dept. of Fish and Game	Sawtooth Hatchery	SO	UN	2008	70,000	05-01-08	05-01-08	Salmon River (ID)	Salmon River (ID)
Idaho Dept. of Fish and Game Total					4,565,056				
Nez Perce Tribe	Clearwater Hatchery	ST	SU	2008	31,400	04-13-08	04-19-08	Meadow Creek - CLES	S Fk Clearwater River
Nez Perce Tribe	Clearwater Hatchery	ST	SU	2008	31,400	04-13-08	04-19-08	Mill Cr Bridge	S Fk Clearwater River
Nez Perce Tribe	Clearwater Hatchery	ST	SU	2008	45,600	04-21-08	04-21-08	Lolo Creek	Clearwater River M F
Nez Perce Tribe	Clearwater Hatchery	ST	SU	2008	72,100	04-13-08	04-19-08	Crooked River	S Fk Clearwater River
Nez Perce Tribe	Clearwater Hatchery	ST	SU	2008	163,500	04-13-08	04-19-08	Red River	S Fk Clearwater River
Nez Perce Tribe Total					344,000				
Oregon Dept. of Fish and Wildlife	Irrigon Hatchery Complex	ST	SU	2008	160,000	05-01-08	05-01-08	Big Canyon Acclim.Pd (Grande Ronde)	Grande Ronde River
Oregon Dept. of Fish and Wildlife	Oak Springs Hatchery	ST	WI	2008	1,982	04-25-08	04-25-08	E Fk Hood River	Hood River
Oregon Dept. of Fish and Wildlife	Round Butte Hatchery	CH1	SP	2008	215,209	04-14-08	04-21-08	Deschutes River	Deschutes River
Oregon Dept. of Fish and Wildlife	Umatilla Hatchery	ST	SU	2008	50,000	04-29-08	04-29-08	Meacham Creek	Umatilla River
Oregon Dept. of Fish and Wildlife Total					427,191				
U.S. Fish and Wildlife Service	Dworshak NFH	ST	SU	2008	1,300,000	04-21-08	04-21-08	Dworshak Hatchery	Clearwater River M F
U.S. Fish and Wildlife Service	Hagerman NFH	ST	SU	2008	103,000	04-28-08	05-02-08	Yankee Fk (Salmon R)	Salmon River (ID)
U.S. Fish and Wildlife Service	Hagerman NFH	ST	SU	2008	144,000	04-28-08	05-02-08	Yankee Fk (Salmon R)	Salmon River (ID)
U.S. Fish and Wildlife Service	Hagerman NFH	ST	SU	2008	782,000	04-07-08	04-25-08	Salmon River (ID)	Salmon River (ID)
U.S. Fish and Wildlife Service	Leavenworth NFH	CH1	SP	2008	1,535,000	04-24-08	04-24-08	Icicle Creek Warm Springs Hatchery	Wenatchee River
U.S. Fish and Wildlife Service	Warm Springs NFH	CH1	SP	2008	376,000	03-23-08	04-23-08	Hatchery	Deschutes River
U.S. Fish and Wildlife Service Total					4,240,000				
Umatilla Tribe	Umatilla Hatchery	ST	SU	2008	50,000	04-29-08	04-29-08	Minthorn Acclimation Pond	Umatilla River
Umatilla Tribe	Umatilla Hatchery	ST	SU	2008	50,000	04-29-08	04-29-08	Pendelton Acclim Pond	Umatilla River
Umatilla Tribe Total					100,000				

HATCHERY RELEASE LAST TWO WEEKS-cont'd

5/2/08

Warm Springs Tribe	Oak Springs Hatchery	ST	WI	2008	26,918	04-24-08	05-16-08	Parkdale Acclim Pond	Hood River
Warm Springs Tribe	Oak Springs Hatchery	ST	WI	2008	27,787	04-25-08	05-15-08	E Fk Hood River	Hood River
Warm Springs Tribe	Round Butte Hatchery	CH1	SP	2008	72,000	04-23-08	05-09-08	Blackberry Acclim Pond	Hood River
Warm Springs Tribe Total					126,705				
Washington Dept. of Fish and Wildlife	Chiwawa Hatchery	CH1	SP	2008	615,000	04-14-08	05-14-08	Chiwawa River	Wenatchee River
Washington Dept. of Fish and Wildlife	Eastbank Hatchery	CH1	SU	2008	608,000	04-16-08	05-14-08	Similkameen Acclim Pd	Okanogan River
Washington Dept. of Fish and Wildlife	Eastbank Hatchery	CH1	SU	2008	926,000	04-30-08	04-30-08	Dryden Acclim Pond	Wenatchee River
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	ST	SU	2008	68,000	04-21-08	05-01-08	Baileysburg Bridge	Touchet River
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	ST	SU	2008	85,000	04-10-08	04-25-08	Dayton Acclim Pond Cottonwood Acclim	Touchet River
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	ST	SU	2008	160,000	04-08-08	04-25-08	Pond	Grande Ronde River
Washington Dept. of Fish and Wildlife	Methow Hatchery	CH1	SU	2008	421,000	04-14-08	05-14-08	Carlton Acclim Pond Ringold Springs Hatchery	Methow River
Washington Dept. of Fish and Wildlife	Ringold Springs Hatchery	ST	SU	2008	180,000	04-14-08	04-25-08	Hatchery	Mid-Columbia River
Washington Dept. of Fish and Wildlife	Skamania Hatchery	ST	SU	2008	24,750	04-24-08	05-15-08	White Salmon River	White Salmon River
Washington Dept. of Fish and Wildlife	Skamania Hatchery	ST	SU	2008	94,000	04-24-08	05-15-08	Klickitat River	Klickitat River
Washington Dept. of Fish and Wildlife	Skamania Hatchery	ST	WI	2008	21,000	04-24-08	05-15-08	White Salmon River	White Salmon River
Washington Dept. of Fish and Wildlife	Tucannon Hatchery	CH1	SP	2008	78,000	04-10-08	04-24-08	Tucannon River	Tucannon River
Washington Dept. of Fish and Wildlife	Tucannon Hatchery	CH1	SP	2008	106,000	04-09-08	04-24-08	Tucannon River	Tucannon River
Washington Dept. of Fish and Wildlife	Turtle Rock Hatchery	CH1	SU	2008	44,000	04-28-08	05-15-08	Turtle Rock Hatchery	Mid-Columbia River
Washington Dept. of Fish and Wildlife	Turtle Rock Hatchery	CH1	SU	2008	99,000	05-01-08	05-15-08	Chelan Falls	Mid-Columbia River
Washington Dept. of Fish and Wildlife	Turtle Rock Hatchery	ST	SU	2008	6,000	05-01-08	05-11-08	Chiwawa River	Wenatchee River
Washington Dept. of Fish and Wildlife	Turtle Rock Hatchery	ST	SU	2008	43,000	05-01-08	05-11-08	Chiwawa River	Wenatchee River
Washington Dept. of Fish and Wildlife	Turtle Rock Hatchery	ST	SU	2008	87,000	05-01-08	05-11-08	Wenatchee River	Wenatchee River
Washington Dept. of Fish and Wildlife	Turtle Rock Hatchery	ST	SU	2008	95,000	05-01-08	05-11-08	Nason Creek	Wenatchee River
Washington Dept. of Fish and Wildlife	Turtle Rock Hatchery	ST	SU	2008	97,567	05-01-08	05-11-08	Wenatchee River	Wenatchee River
Washington Dept. of Fish and Wildlife	Wells Hatchery	CH1	SU	2008	313,000	04-14-08	05-15-08	Wells Hatchery	Mid-Columbia River
Washington Dept. of Fish and Wildlife	Wells Hatchery	ST	SU	2008	90,000	04-21-08	05-15-08	Twisp River	Methow River
Washington Dept. of Fish and Wildlife	Wells Hatchery	ST	SU	2008	110,000	04-21-08	05-15-08	Chewuch River	Methow River
Washington Dept. of Fish and Wildlife	Wells Hatchery	ST	SU	2008	110,000	04-21-08	05-15-08	Methow River	Methow River
Washington Dept. of Fish and Wildlife	Wells Hatchery	ST	SU	2008	138,000	04-21-08	05-15-08	Okanogan River	Okanogan River
Washington Dept. of Fish and Wildlife Total					4,619,317				
Yakama Tribe	Cascade Hatchery	CO	UN	2008	62,201	05-01-08	05-10-08	Wenatchee River	Wenatchee River
Yakama Tribe	Cascade Hatchery	CO	UN	2008	69,402	05-01-08	05-10-08	Rolfings Acclim Pond Butcher Creek Acclim.	Wenatchee River
Yakama Tribe	Cascade Hatchery	CO	UN	2008	147,905	05-01-08	05-10-08	Pond	Wenatchee River
Yakama Tribe	Cascade Hatchery	CO	UN	2008	149,312	04-21-08	04-25-08	Icicle Creek	Wenatchee River
Yakama Tribe	Cascade Hatchery	CO	UN	2008	224,773	04-21-08	04-24-08	Icicle Creek	Wenatchee River
Yakama Tribe	Cle Elem Hatchery	CH1	SP	2008	211,004	03-15-08	05-15-08	Clark Flat Acclim Pond Jack Creek Acclim	Yakima River
Yakama Tribe	Cle Elem Hatchery	CH1	SP	2008	217,146	03-15-08	05-15-08	Pond	Yakima River
Yakama Tribe	Cle Elem Hatchery	CH1	SP	2008	219,470	03-15-08	05-15-08	Easton Pond	Yakima River
Yakama Tribe	Eagle Creek NFH	CO	UN	2008	40,964	04-21-08	05-01-08	Prosser Acclim Pond	Yakima River
Yakama Tribe	Eagle Creek NFH	CO	UN	2008	100,000	04-21-08	05-01-08	Easton Pond Lost Creek Acclim	Yakima River
Yakama Tribe	Eagle Creek NFH	CO	UN	2008	100,000	04-21-08	05-01-08	Pond	Yakima River
Yakama Tribe	Eagle Creek NFH	CO	UN	2008	100,000	04-21-08	05-01-08	Stiles Pond	Yakima River
Yakama Tribe	Eagle Creek NFH	CO	UN	2008	150,000	04-21-08	05-01-08	Holmes Pond	Yakima River
Yakama Tribe	Prosser Acclim. Pond	CH0	FA	2008	300,000	04-21-08	04-21-08	Prosser Acclim Pond	Yakima River
Yakama Tribe	Prosser Acclim. Pond	CO	UN	2008	12,000	04-28-08	05-02-08	Cle Elum Lake	Yakima River
Yakama Tribe	Prosser Acclim. Pond	CO	UN	2008	40,150	04-21-08	05-01-08	Prosser Acclim Pond	Yakima River
Yakama Tribe	Prosser Acclim. Pond	CO	UN	2008	40,579	04-21-08	05-01-08	Boone Pond Lost Creek Acclim	Yakima River
Yakama Tribe	Prosser Acclim. Pond	CO	UN	2008	41,095	04-21-08	05-01-08	Pond	Yakima River
Yakama Tribe	Prosser Acclim. Pond	CO	UN	2008	42,447	04-21-08	05-01-08	Stiles Pond	Yakima River
Yakama Tribe	Prosser Acclim. Pond	CO	UN	2008	120,425	04-21-08	05-01-08	Holmes Pond	Yakima River
Yakama Tribe	Washougal Hatchery	CO	NO	2008	39,726	04-21-08	05-01-08	Yakama River	Yakima River
Yakama Tribe	Washougal Hatchery	CO	NO	2008	89,328	04-21-08	05-01-08	Boone Pond	Yakima River
Yakama Tribe	Willard Hatchery	CO	UN	2008	27,570	05-01-08	05-10-08	Wenatchee River	Wenatchee River
Yakama Tribe	Willard Hatchery	CO	UN	2008	30,425	05-01-08	05-10-08	Rolfings Acclim Pond	Wenatchee River
Yakama Tribe	Willard Hatchery	CO	UN	2008	70,299	05-01-08	05-10-08	Coulter Creek	Wenatchee River
Yakama Tribe	Willard Hatchery	CO	UN	2008	71,946	04-21-08	04-25-08	Icicle Creek	Wenatchee River
Yakama Tribe	Willard Hatchery	CO	UN	2008	83,866	04-21-08	04-30-08	Methow River	Methow River
Yakama Tribe	Willard Hatchery	CO	UN	2008	133,793	04-21-08	04-24-08	Icicle Creek	Wenatchee River
Yakama Tribe	Willard Hatchery	CO	UN	2008	211,543	05-01-08	05-10-08	Wells Hatchery	Mid-Columbia River
Yakama Tribe	Winthrop NFH	CO	UN	2008	267,004	04-28-08	04-28-08	Winthrop Hatchery	Methow River
Yakama Tribe Total					3,414,373				
Grand Total					17,856,642				

HATCHERY RELEASE NEXT TWO WEEKS

Hatchery Release Summary

From: 5/2/2008 to 5/15/2008

Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
Idaho Dept. of Fish and Game	Oxbow-Idaho	CH0	FA	2008	200,000	05-06-08	05-06-08	Hells Canyon Dam	Snake River
Idaho Dept. of Fish and Game Total					200,000				
Nez Perce Tribe	Nez Perce Tribal Hatchery	CH0	FA	2008	200,000	05-04-08	05-10-08	Lapwai Creek	Clearwater River M F
Nez Perce Tribe Total					200,000				
Oregon Dept. of Fish and Wildlife	Irrigon Hatchery Complex	ST	SU	2008	120,000	05-10-08	05-10-08	Wallowa Acclim Pond	Wallowa River
Oregon Dept. of Fish and Wildlife	Umatilla Hatchery	CH0	FA	2008	300,000	05-15-08	05-15-08	Umatilla River	Umatilla River
Oregon Dept. of Fish and Wildlife Total					420,000				
U.S. Fish and Wildlife Service	Hagerman NFH	ST	SU	2008	100,000	05-05-08	05-07-08	East Fk Salmon River	Salmon River (ID)
U.S. Fish and Wildlife Service	Hagerman NFH	ST	SU	2008	103,000	04-28-08	05-02-08	Yankee Fk (Salmon R)	Salmon River (ID)
U.S. Fish and Wildlife Service	Hagerman NFH	ST	SU	2008	144,000	04-28-08	05-02-08	Yankee Fk (Salmon R)	Salmon River (ID)
U.S. Fish and Wildlife Service	Spring Creek NFH	CH0	FA	2008	3,492,789	5/2/2008	5/2/2008	Spring Creek Hatchery	L Col R (D/s McN Dam)
U.S. Fish and Wildlife Service	Winthrop NFH	ST	SU	2008	118,470	05-05-08	05-09-08	Winthrop Hatchery	Methow River
U.S. Fish and Wildlife Service Total					3,958,259				
Umatilla Tribe	Umatilla Hatchery	CH0	FA	2008	300,000	05-15-08	05-15-08	Thornhollow Acclim Pond	Umatilla River
Umatilla Tribe Total					300,000				
Warm Springs Tribe	Oak Springs Hatchery	ST	WI	2008	26,918	04-24-08	05-16-08	Parkdale Acclim Pond	Hood River
Warm Springs Tribe	Oak Springs Hatchery	ST	WI	2008	27,787	04-25-08	05-15-08	E Fk Hood River	Hood River
Warm Springs Tribe	Round Butte Hatchery	CH1	SP	2008	72,000	04-23-08	05-09-08	Blackberry Acclim Pond	Hood River
Warm Springs Tribe Total					126,705				
Washington Dept. of Fish and Wildlife	Chiwawa Hatchery	CH1	SP	2008	615,000	04-14-08	05-14-08	Chiwawa River	Wenatchee River
Washington Dept. of Fish and Wildlife	Eastbank Hatchery	CH1	SU	2008	608,000	04-16-08	05-14-08	Similkameen Acclim Pd	Okanogan River
Washington Dept. of Fish and Wildlife	Methow Hatchery	CH1	SU	2008	421,000	04-14-08	05-14-08	Carlton Acclim Pond	Methow River
Washington Dept. of Fish and Wildlife	Skamania Hatchery	ST	SU	2008	24,750	04-24-08	05-15-08	White Salmon River	White Salmon River
Washington Dept. of Fish and Wildlife	Skamania Hatchery	ST	SU	2008	94,000	04-24-08	05-15-08	Klickitat River	Klickitat River
Washington Dept. of Fish and Wildlife	Skamania Hatchery	ST	WI	2008	21,000	04-24-08	05-15-08	White Salmon River	White Salmon River
Washington Dept. of Fish and Wildlife	Turtle Rock Hatchery	CH1	SU	2008	44,000	04-28-08	05-15-08	Turtle Rock Hatchery	Mid-Columbia River
Washington Dept. of Fish and Wildlife	Turtle Rock Hatchery	CH1	SU	2008	99,000	05-01-08	05-15-08	Chelan Falls	Mid-Columbia River
Washington Dept. of Fish and Wildlife	Turtle Rock Hatchery	ST	SU	2008	6,000	05-01-08	05-11-08	Chiwawa River	Wenatchee River
Washington Dept. of Fish and Wildlife	Turtle Rock Hatchery	ST	SU	2008	43,000	05-01-08	05-11-08	Chiwawa River	Wenatchee River
Washington Dept. of Fish and Wildlife	Turtle Rock Hatchery	ST	SU	2008	87,000	05-01-08	05-11-08	Wenatchee River	Wenatchee River
Washington Dept. of Fish and Wildlife	Turtle Rock Hatchery	ST	SU	2008	95,000	05-01-08	05-11-08	Nason Creek	Wenatchee River
Washington Dept. of Fish and Wildlife	Turtle Rock Hatchery	ST	SU	2008	97,567	05-01-08	05-11-08	Wenatchee River	Wenatchee River
Washington Dept. of Fish and Wildlife	Wells Hatchery	CH1	SU	2008	313,000	04-14-08	05-15-08	Wells Hatchery	Mid-Columbia River
Washington Dept. of Fish and Wildlife	Wells Hatchery	ST	SU	2008	90,000	04-21-08	05-15-08	Twisp River	Methow River
Washington Dept. of Fish and Wildlife	Wells Hatchery	ST	SU	2008	110,000	04-21-08	05-15-08	Chewuch River	Methow River
Washington Dept. of Fish and Wildlife	Wells Hatchery	ST	SU	2008	110,000	04-21-08	05-15-08	Methow River	Methow River
Washington Dept. of Fish and Wildlife	Wells Hatchery	ST	SU	2008	138,000	04-21-08	05-15-08	Okanogan River	Okanogan River
Washington Dept. of Fish and Wildlife Total					3,016,317				
Yakama Tribe	Cascade Hatchery	CO	UN	2008	62,201	05-01-08	05-10-08	Wenatchee River	Wenatchee River
Yakama Tribe	Cascade Hatchery	CO	UN	2008	69,402	05-01-08	05-10-08	Rolfings Acclim Pond	Wenatchee River
Yakama Tribe	Cascade Hatchery	CO	UN	2008	147,905	05-01-08	05-10-08	Butcher Creek Acclim. Pond	Wenatchee River
Yakama Tribe	Cle Elem Hatchery	CH1	SP	2008	211,004	03-15-08	05-15-08	Clark Flat Acclim Pond	Yakima River
Yakama Tribe	Cle Elem Hatchery	CH1	SP	2008	217,146	03-15-08	05-15-08	Jack Creek Acclim Pond	Yakima River
Yakama Tribe	Cle Elem Hatchery	CH1	SP	2008	219,470	03-15-08	05-15-08	Easton Pond	Yakima River
Yakama Tribe	Klickitat Hatchery	CO	NO	2008	1,093,800	05-07-08	05-07-08	Klickitat River	Klickitat River
Yakama Tribe	Prosser Acclim. Pond	CH0	FA	2008	55,000	05-09-08	05-09-08	Stiles Pond	Yakima River
Yakama Tribe	Prosser Acclim. Pond	CH0	FA	2008	55,000	05-09-08	05-09-08	Yakama River	Yakima River
Yakama Tribe	Prosser Acclim. Pond	CO	UN	2008	12,000	04-28-08	05-02-08	Cle Elum Lake	Yakima River
Yakama Tribe	Willard Hatchery	CO	UN	2008	27,570	05-01-08	05-10-08	Wenatchee River	Wenatchee River
Yakama Tribe	Willard Hatchery	CO	UN	2008	30,425	05-01-08	05-10-08	Rolfings Acclim Pond	Wenatchee River
Yakama Tribe	Willard Hatchery	CO	UN	2008	70,299	05-01-08	05-10-08	Coulter Creek	Wenatchee River
Yakama Tribe	Willard Hatchery	CO	UN	2008	211,543	05-01-08	05-10-08	Wells Hatchery	Mid-Columbia River
Yakama Tribe Total					2,482,765				
Grand Total					10,704,046				

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>				
4/18	98	98	98	23	106	107	107	22	107	107	108	23	106	106	107	22	---	---	---	0
4/19	98	98	98	24	105	105	106	22	107	107	108	24	105	106	107	22	---	---	---	0
4/20	98	98	98	24	105	106	107	24	106	106	107	24	105	106	107	24	---	---	---	0
4/21	97	98	98	24	105	106	107	22	106	106	106	24	105	106	107	22	---	---	---	0
4/22	97	97	98	24	105	106	107	22	106	106	107	24	105	106	107	22	---	---	---	0
4/23	97	98	98	24	105	105	106	23	107	107	108	23	106	106	108	23	106	106	107	15
4/24	97	97	98	24	104	105	106	22	106	107	107	24	105	105	106	22	105	105	105	24
4/25	97	97	97	24	104	104	105	24	105	105	105	24	104	105	105	24	104	104	105	24
4/26	96	96	97	24	104	104	105	24	104	105	105	24	103	104	105	24	104	105	105	24
4/27	97	97	97	24	104	104	106	14	107	108	108	24	104	104	105	14	105	105	105	24
4/28	97	98	98	24	106	107	108	22	108	109	110	24	106	106	107	22	106	106	106	24
4/29	98	98	99	24	106	107	108	21	108	108	108	24	106	107	107	21	106	106	106	24
4/30	97	98	98	24	105	106	107	22	106	107	107	24	105	106	107	22	106	106	106	24
5/1	96	96	97	24	104	105	106	23	106	106	107	24	105	105	106	23	105	105	106	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>				
4/18	---	---	---	0	106	107	107	24	107	108	108	24	107	107	107	24	107	107	107	24
4/19	---	---	---	0	105	106	106	23	107	107	108	23	107	107	107	24	107	107	107	24
4/20	---	---	---	0	104	104	105	23	106	106	106	23	106	106	107	24	106	106	107	24
4/21	---	---	---	0	104	105	105	24	106	106	107	24	106	107	107	24	106	107	107	24
4/22	---	---	---	0	105	106	106	24	107	108	108	24	106	106	107	24	106	106	107	24
4/23	106	106	107	15	105	106	106	23	107	108	108	23	107	107	107	24	107	107	107	24
4/24	104	104	105	24	104	105	105	24	106	106	106	24	106	106	106	24	106	106	107	24
4/25	104	105	105	24	104	104	104	24	105	106	106	24	105	105	106	24	105	106	106	24
4/26	104	104	105	24	104	104	105	24	105	106	106	24	105	105	105	24	105	105	105	24
4/27	113	117	120	24	105	106	106	24	106	107	107	24	106	106	107	24	106	106	107	24
4/28	106	107	107	24	109	110	111	24	110	111	111	24	107	108	108	24	108	108	108	24
4/29	106	107	107	24	107	108	109	24	109	110	111	24	108	108	108	24	108	108	108	24
4/30	106	107	107	24	105	106	106	24	107	107	108	24	108	108	108	24	108	109	109	24
5/1	105	106	106	24	104	105	105	24	105	106	107	24	106	107	107	24	106	107	107	24

Total Dissolved Gas Saturation at Mid Columbia River Sites

Date	<u>Rock Island</u>			<u>Rock I. Tlwr</u>			<u>Wanapum</u>			<u>Wanapum Tlwr</u>			<u>Priest Rapids</u>							
	<u>24 h</u>	<u>12 h</u>	<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>				
4/18	107	107	107	24	110	112	115	24	---	---	---	0	---	---	---	0	---	---	---	0
4/19	106	107	107	24	109	109	111	24	---	---	---	0	---	---	---	0	---	---	---	0
4/20	106	106	107	24	109	110	111	24	---	---	---	0	---	---	---	0	---	---	---	0
4/21	106	106	107	24	109	111	114	24	---	---	---	0	---	---	---	0	---	---	---	0
4/22	106	107	107	24	108	110	112	24	106	106	107	24	107	108	108	24	107	108	109	24
4/23	107	107	107	24	110	110	110	24	106	107	107	24	108	108	108	24	108	108	109	24
4/24	106	106	107	24	109	110	115	24	106	106	106	24	107	107	107	24	106	106	107	24
4/25	106	106	106	24	108	109	111	24	---	---	---	0	---	---	---	0	---	---	---	0
4/26	105	105	106	24	108	109	112	24	---	---	---	0	---	---	---	0	---	---	---	0
4/27	106	107	107	24	109	110	113	24	---	---	---	0	---	---	---	0	---	---	---	0
4/28	107	108	109	24	110	111	112	24	---	---	---	0	---	---	---	0	---	---	---	0
4/29	108	108	108	24	110	111	115	24	---	---	---	0	---	---	---	0	---	---	---	0
4/30	107	107	108	24	111	112	114	24	---	---	---	0	---	---	---	0	---	---	---	0
5/1	107	107	108	24	111	112	113	24	---	---	---	0	---	---	---	0	---	---	---	0

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

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

Date	<u>Priest R. Dnst</u>			<u>Pasco</u>			<u>Dworshak</u>			<u>Clwrtr-Peck</u>			<u>Anatone</u>			#				
	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>					
	<u>Avg</u>	<u>Avg</u>		<u>Avg</u>	<u>Avg</u>		<u>Avg</u>	<u>Avg</u>		<u>Avg</u>	<u>Avg</u>		<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>		
4/18	---	---	---	0	103	104	104	24	97	97	98	24	100	100	101	24	102	103	103	23
4/19	---	---	---	0	102	103	104	24	97	97	97	24	99	100	101	24	101	102	102	24
4/20	---	---	---	0	102	102	103	24	97	97	97	23	99	99	100	23	101	102	102	24
4/21	---	---	---	0	102	104	105	23	96	96	97	24	99	99	100	24	102	102	103	24
4/22	107	108	108	24	105	106	106	24	97	98	98	24	100	101	101	24	102	103	104	24
4/23	107	108	108	24	106	106	107	24	98	98	99	24	99	100	100	24	102	102	103	24
4/24	106	106	106	24	104	104	105	24	96	96	96	20	98	99	99	24	101	102	102	24
4/25	---	---	---	0	104	105	106	24	95	95	95	7	98	99	100	24	102	102	103	24
4/26	---	---	---	0	105	106	106	24	96	96	96	16	99	100	101	24	102	103	104	24
4/27	---	---	---	0	106	107	108	24	96	97	97	24	100	101	101	24	103	104	104	24
4/28	---	---	---	0	108	109	109	24	98	98	99	24	101	102	103	24	103	104	105	24
4/29	---	---	---	0	107	108	108	24	97	98	98	23	100	100	100	23	101	102	102	24
4/30	---	---	---	0	106	106	107	24	97	97	98	24	100	100	100	24	101	102	102	24
5/1	---	---	---	0	105	106	106	24	96	96	97	24	99	100	101	23	102	103	104	24

Total Dissolved Gas Saturation Data at Snake River Sites

Date	<u>Clwrtr-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>High</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>					
	<u>Avg</u>	<u>Avg</u>		<u>Avg</u>	<u>Avg</u>		<u>Avg</u>	<u>Avg</u>		<u>Avg</u>	<u>Avg</u>		<u>Avg</u>	<u>Avg</u>			<u>Avg</u>			
4/18	101	103	104	24	100	101	101	24	110	110	111	24	106	106	107	24	114	115	115	24
4/19	100	102	103	24	102	102	102	24	110	110	111	24	106	107	107	24	110	111	111	24
4/20	100	101	102	23	102	102	102	24	110	111	111	24	106	106	107	24	110	110	111	24
4/21	100	102	104	24	101	101	101	23	110	110	111	23	105	105	105	24	109	110	110	24
4/22	102	104	106	24	100	101	101	24	110	111	111	24	106	107	107	24	109	110	110	24
4/23	101	102	103	24	101	101	101	24	111	112	112	24	107	107	108	24	110	111	111	24
4/24	100	102	104	24	100	100	101	24	110	111	112	24	106	106	107	24	110	110	111	24
4/25	100	102	104	24	100	101	101	24	110	110	111	24	105	106	106	24	114	116	119	24
4/26	101	104	105	24	100	100	101	24	110	110	111	24	105	105	105	24	116	119	120	24
4/27	102	104	105	24	101	101	102	24	110	110	111	24	106	107	108	24	112	114	117	24
4/28	102	105	107	24	102	103	103	24	111	111	112	24	109	110	111	24	112	114	115	24
4/29	100	101	102	23	104	105	105	24	111	111	113	24	109	110	110	24	113	114	115	24
4/30	100	101	102	24	103	104	104	24	110	110	111	24	109	109	110	24	113	114	114	24
5/1	101	103	104	24	101	102	103	24	110	111	112	24	107	108	108	24	115	116	116	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>High</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>					
	<u>Avg</u>	<u>Avg</u>		<u>Avg</u>	<u>Avg</u>		<u>Avg</u>	<u>Avg</u>		<u>Avg</u>	<u>Avg</u>		<u>Avg</u>	<u>Avg</u>			<u>Avg</u>			
4/18	109	109	110	24	118	118	119	24	114	114	114	24	115	116	116	24	---	---	---	0
4/19	110	111	111	24	118	119	119	24	113	113	113	24	115	116	116	24	---	---	---	0
4/20	110	110	111	24	119	120	121	24	112	112	113	24	115	115	116	24	---	---	---	0
4/21	109	109	110	24	119	120	120	24	112	112	113	24	115	116	116	24	---	---	---	0
4/22	109	110	110	24	119	120	121	24	113	114	115	24	115	116	116	24	---	---	---	0
4/23	109	110	110	24	119	119	120	24	115	115	115	24	114	115	116	24	---	---	---	0
4/24	108	108	108	24	118	118	118	24	113	113	114	24	114	115	115	24	---	---	---	0
4/25	107	107	107	17	118	118	118	17	112	112	112	24	115	115	115	24	---	---	---	0
4/26	107	107	108	24	118	118	119	24	111	112	112	24	114	115	115	24	---	---	---	0
4/27	109	110	112	24	118	119	119	24	113	114	115	24	114	115	116	24	---	---	---	0
4/28	114	116	117	24	119	119	120	24	116	117	118	24	115	115	116	24	---	---	---	0
4/29	116	116	116	24	119	119	120	24	117	118	118	24	115	116	117	24	---	---	---	0
4/30	112	112	113	24	113	115	118	24	115	116	116	24	116	116	116	24	---	---	---	0
5/1	110	110	110	24	112	113	116	24	113	113	113	24	115	116	116	24	---	---	---	0

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

Total Dissolved Gas Saturation Data at Lower Columbia River Sites

Date	<u>McNary-Wash</u>			<u>McNary Tlwr</u>			<u>John Day</u>			<u>John Day Tlwr</u>			<u>The Dalles</u>							
	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>#</u>	<u>24h</u>	<u>AVG</u>	<u>High</u>	<u>#</u>	
	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	AVG	High	hr
4/18	106	106	106	24	115	115	115	24	106	106	107	24	113	118	119	24	109	111	114	24
4/19	105	106	106	24	115	116	116	24	106	106	106	24	112	118	119	24	110	112	112	24
4/20	105	105	106	24	115	115	115	24	104	105	105	24	111	118	119	24	111	113	114	24
4/21	105	105	105	23	114	115	116	23	104	104	104	24	111	116	118	24	111	115	117	24
4/22	106	107	108	24	114	115	116	24	105	106	106	24	113	113	115	24	109	112	117	24
4/23	107	107	107	24	114	115	115	24	106	106	106	24	113	113	114	24	109	109	109	24
4/24	106	106	107	24	113	113	115	24	104	104	105	24	113	113	113	24	108	108	108	24
4/25	105	106	107	24	113	113	114	24	104	104	105	24	114	115	115	24	107	107	108	24
4/26	106	106	107	24	113	113	114	24	106	107	108	24	113	114	115	24	109	109	110	24
4/27	108	109	110	24	114	114	115	24	108	108	109	24	113	113	114	24	111	111	112	24
4/28	110	110	110	24	114	115	116	24	109	109	110	24	113	114	114	24	112	112	113	24
4/29	110	110	110	24	114	115	116	24	108	108	109	24	112	114	114	24	110	111	111	24
4/30	108	108	109	24	114	115	116	24	108	108	108	24	112	113	113	24	108	109	109	23
5/1	106	107	108	24	114	114	114	24	107	108	108	24	114	115	116	24	108	109	110	24

Total Dissolved Gas Saturation Data at Lower Columbia River Sites

Date	<u>The Dalles Dnst</u>			<u>Bonneville</u>			<u>Warrendale</u>			<u>Camas\Washougal</u>			<u>Cascade Island</u>							
	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>High</u>	<u>#</u>	
	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr
4/18	113	115	116	24	109	109	110	24	115	115	116	24	111	112	113	24	117	117	118	24
4/19	114	115	116	24	108	109	110	24	116	116	117	24	112	113	114	24	118	118	118	24
4/20	115	116	116	24	109	110	110	24	116	117	117	24	114	115	116	24	117	118	118	24
4/21	115	116	118	24	110	111	112	24	116	116	116	24	114	114	114	24	117	117	118	24
4/22	115	116	118	24	112	113	114	24	115	116	116	24	112	112	113	24	117	118	118	24
4/23	113	114	114	24	114	115	116	24	116	116	116	24	112	113	114	24	117	117	117	24
4/24	112	113	113	24	110	111	114	24	115	115	116	24	112	113	114	24	117	117	117	24
4/25	113	113	114	24	109	110	111	24	115	115	116	24	113	114	115	24	117	117	118	24
4/26	114	115	115	24	110	111	112	24	115	116	116	24	112	113	113	24	117	118	118	24
4/27	114	115	115	24	113	114	114	24	116	117	118	24	113	115	116	24	117	117	118	24
4/28	115	115	116	24	115	115	115	24	117	117	117	24	116	117	118	24	117	118	118	24
4/29	113	114	114	24	113	114	115	24	116	117	117	24	115	115	116	24	117	117	117	24
4/30	113	113	114	24	110	111	112	24	115	116	116	24	113	114	115	24	117	117	117	24
5/1	114	115	115	24	110	111	112	24	115	115	116	16	114	115	116	24	117	118	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)	
04/18/2008	*	1,695	182	426	137	13,725	0	7,098	11	---	3,688	18,078
04/19/2008	*	2,352	105	528	55	45,149	0	4,966	13	3,463	2,643	16,072
04/20/2008	*	1,738	311	1,381	65	45,181	0	0	20	---	2,803	11,971
04/21/2008	*	1,523	347	1,589	39	35,526	32	77	12	5,707	3,998	13,375
04/22/2008	*	1,388	172	886	21	48,164	135	303	29	---	8,046	14,841
04/23/2008	*	1,394	53	714	12	50,438	0	5,144	49	5,358	13,910	23,276
04/24/2008	*	1,467	75	604	10	36,814	151	3,370	96	---	6,803	17,820
04/25/2008	*	983	90	812	31	35,903	0	2,547	80	3,358	10,639	22,754
04/26/2008	*	609	85	530	41	36,220	0	4,454	37	---	12,417	18,092
04/27/2008	*	278	98	210	48	22,132	0	4,546	19	6,002	12,568	18,070
04/28/2008	*	199	---	366	30	31,154	342	2,569	17	---	11,132	17,547
04/29/2008	*	416	---	980	54	35,222	30,765	2,908	71	5,929	7,546	18,255
04/30/2008	*	1,886	---	222	272	78,843	30,373	11,726	523	---	11,159	20,513
05/01/2008	*	3,099	---	427	209	52,640	38,246	13,878	648	11,421	7,802	18,759
05/02/2008		---	---	---	---	---	---	---	---	---	---	---
<hr/>												
Total:		19,027	1,518	9,675	1,024	567,111	100,044	63,586	1,625	41,238	115,154	249,423
# Days:		14	10	14	14	14	14	14	14	7	14	14
Average:		1,359	152	691	73	40,508	7,146	4,542	116	5,891	8,225	17,816
YTD		52,682	77,714	16,652	1,737	610,669	100,369	81,911	1,670	133,994	147,059	336,743

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)	
04/18/2008	*	0	0	0	2	237	0	0	10	---	0	2,191
04/19/2008	*	0	0	0	1	1,480	0	0	12	0	0	1,985
04/20/2008	*	0	0	0	0	0	0	0	3	---	0	823
04/21/2008	*	0	0	0	1	0	0	0	22	0	0	886
04/22/2008	*	0	0	0	0	0	3	0	14	---	0	1,257
04/23/2008	*	0	0	0	1	160	0	0	13	0	0	2,268
04/24/2008	*	0	0	0	1	0	14	0	3	---	0	790
04/25/2008	*	0	0	0	1	0	0	0	10	0	0	1,144
04/26/2008	*	0	0	0	0	0	0	0	0	---	0	1,429
04/27/2008	*	0	0	0	1	0	0	0	18	12	0	2,046
04/28/2008	*	0	---	0	0	0	2	0	3	---	0	949
04/29/2008	*	0	---	0	1	282	0	0	11	119	0	683
04/30/2008	*	0	---	0	1	0	0	0	4	---	0	723
05/01/2008	*	0	---	0	0	0	0	0	1	34	0	670
05/02/2008		---	---	---	---	---	---	---	---	---	---	---
<hr/>												
Total:		0	0	0	10	2,159	19	0	124	165	0	17,844
# Days:		14	10	14	14	14	14	14	14	7	14	14
Average:		0	0	0	1	154	1	0	9	24	0	1,275
YTD		0	0	0	38	2,309	19	0	461	175	0	1,317,548

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)
04/18/2008	*	0	0	0	0	0	0	0	0	---	10	2,191
04/19/2008	*	0	0	0	1	0	0	0	2	43	0	1,443
04/20/2008	*	0	0	0	1	0	0	0	1	---	25	1,251
04/21/2008	*	0	0	0	1	0	0	0	2	38	0	1,551
04/22/2008	*	0	0	0	0	0	0	0	0	---	79	1,970
04/23/2008	*	0	0	0	0	0	0	0	0	29	72	2,526
04/24/2008	*	0	0	0	1	0	0	0	0	---	14	2,839
04/25/2008	*	0	0	0	0	0	0	0	3	0	14	3,576
04/26/2008	*	0	0	0	0	154	0	20	0	---	96	4,147
04/27/2008	*	0	0	0	2	157	0	0	0	36	112	2,182
04/28/2008	*	0	---	0	0	463	0	0	0	---	57	1,756
04/29/2008	*	0	---	0	1	188	0	0	4	85	72	1,900
04/30/2008	*	0	---	0	7	715	202	0	14	---	85	2,186
05/01/2008	*	0	---	0	4	566	0	0	5	186	100	2,457
05/02/2008	*	---	---	---	---	---	---	---	---	---	---	---
<hr/>												
Total:		0	0	0	18	2,243	202	20	31	417	736	31,975
# Days:		14	10	14	14	14	14	14	14	7	14	14
Average:		0	0	0	1	160	14	1	2	60	53	2,284
YTD		0	0	0	33	2,414	203	20	38	980	866	36,551

		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)
04/18/2008	*	55	143	67	103	23,299	0	1,240	13	---	1,197	149
04/19/2008	*	73	220	44	74	54,919	0	2,590	8	1,512	727	238
04/20/2008	*	78	326	101	101	49,301	0	0	7	---	721	235
04/21/2008	*	89	315	88	60	27,647	112	98	5	3,654	774	498
04/22/2008	*	85	187	27	58	38,086	535	172	6	---	1,831	191
04/23/2008	*	21	73	19	80	31,829	0	3,443	9	3,250	1,755	265
04/24/2008	*	43	113	52	154	29,485	167	4,563	17	---	1,750	632
04/25/2008	*	54	51	135	223	22,166	0	2,512	18	2,450	2,286	1,073
04/26/2008	*	47	105	76	382	28,205	0	4,159	10	---	2,967	2,072
04/27/2008	*	53	104	28	156	41,438	0	3,112	12	7,383	3,438	898
04/28/2008	*	72	---	74	81	51,666	484	3,026	7	---	3,353	2,009
04/29/2008	*	139	---	515	249	72,604	80,177	1,945	34	8,925	1,971	1,633
04/30/2008	*	263	---	378	506	92,080	137,502	5,330	29	---	3,038	3,199
05/01/2008	*	317	---	718	848	71,884	127,951	8,371	35	16,876	3,901	3,796
05/02/2008	*	---	---	---	---	---	---	---	---	---	---	---
<hr/>												
Total:		1,389	1,637	2,322	3,075	634,609	346,928	40,561	210	44,050	29,709	16,888
# Days:		14	10	14	14	14	14	14	14	7	14	14
Average:		99	164	166	220	45,329	24,781	2,897	15	6,293	2,122	1,206
YTD		2,633	11,410	3,238	3,833	662,372	347,826	41,427	253	45,258	31,205	18,906

Two-Week Summary of Passage Indices

Date	COMBINED SOCKEYE											
	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)	
04/18/2008	*	0	0	0	0	0	0	0	0	---	0	0
04/19/2008	*	0	0	0	0	0	0	0	1	0	0	0
04/20/2008	*	0	0	0	0	0	0	0	2	---	7	0
04/21/2008	*	0	0	0	0	0	0	0	0	26	0	0
04/22/2008	*	0	0	0	0	0	0	0	0	---	0	0
04/23/2008	*	0	0	0	0	0	0	0	1	10	0	0
04/24/2008	*	0	0	0	0	0	0	19	3	---	0	0
04/25/2008	*	0	0	0	0	0	0	0	3	34	0	0
04/26/2008	*	0	0	0	0	0	0	39	3	---	0	0
04/27/2008	*	0	0	0	0	0	0	49	3	48	0	0
04/28/2008	*	0	---	0	1	0	2	0	7	---	0	0
04/29/2008	*	0	---	0	0	0	0	17	9	68	0	50
04/30/2008	*	0	---	0	0	0	0	0	11	---	12	0
05/01/2008	*	0	---	0	0	0	0	0	8	390	0	0
05/02/2008		---	---	---	---	---	---	---	---	---	---	---
<hr/>												
Total:		0	0	0	1	0	2	124	51	576	19	50
# Days:		14	10	14	14	14	14	14	14	7	14	14
Average:		0	0	0	0	0	0	9	4	82	1	4
YTD		0	0	0	3	501	3	132	51	593	26	52

* 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:

5/2/08 11:33 AM

		04/18/08	TO	05/02/08			
		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	1,443	377,301	1,522		423,579	803,845
	Sum of NumberBarged	238	91,914	248		95,195	187,595
	Sum of NumberBypassed	1,203	284,469	1,273		328,359	615,304
	Sum of Numbertrucked	0	0	0		0	0
	Sum of SampleMorts	1	39	0		9	49
	Sum of FacilityMorts	1	179	1		16	197
	Sum of ResearchMorts	0	700	0		0	700
	Sum of TotalProjectMorts	2	918	1		25	946
LGS	Sum of NumberCollected	13	60,436	125	1	210,335	270,910
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	13	60,425	125	1	210,334	270,898
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of SampleMorts	0	4	0	0	1	5
	Sum of FacilityMorts	0	7	0	0	0	7
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	0	11	0	0	1	12
LMN	Sum of NumberCollected		37,558	10	65	23,394	61,027
	Sum of NumberBarged		0	0	0	0	0
	Sum of NumberBypassed		37,534	10	65	23,394	61,003
	Sum of Numbertrucked		0	0	0	0	0
	Sum of SampleMorts		7	0	0	0	7
	Sum of FacilityMorts		8	0	0	0	8
	Sum of ResearchMorts		0	0	0	0	0
	Sum of TotalProjectMorts		15	0	0	0	15
MCN	Sum of NumberCollected	97	24,220	245	339	25,909	50,810
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	97	24,188	245	339	25,896	50,765
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of SampleMorts	0	9	0	0	2	11
	Sum of FacilityMorts	0	12	0	0	7	19
	Sum of ResearchMorts	0	5	0	0	2	7
	Sum of TotalProjectMorts	0	26	0	0	11	37
Total Sum of NumberCollected		1,553	499,515	1,902	405	683,217	1,186,592
Total Sum of NumberBarged		238	91,914	248	0	95,195	187,595
Total Sum of NumberBypassed		1,313	406,616	1,653	405	587,983	997,970
Total Sum of Numbertrucked		0	0	0	0	0	0
Total Sum of SampleMorts		1	59	0	0	12	72
Total Sum of FacilityMorts		1	206	1	0	23	231
Total Sum of ResearchMorts		0	705	0	0	2	707
Total Sum of TotalProjectMorts		2	970	1	0	37	1,010

YTD Transportation Summary

Source: Fish Passage Center

Updated:

5/2/08 11:33 AM

TO: 05/02/08

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	1,543	404,989	1,642	310	441,444	849,928
	Sum of NumberBarged	292	104,254	290	144	98,995	203,975
	Sum of NumberBypassed	1,248	299,733	1,351	166	342,421	644,919
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	2	76	0	0	12	90
	Sum of FacilityMorts	1	226	1	0	16	244
	Sum of ResearchMorts	0	700	0	0	0	700
	Sum of TotalProjectMorts	3	1,002	1	0	28	1,034
LGS	Sum of NumberCollected	13	60,662	126	2	210,961	271,764
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	13	60,651	126	2	210,959	271,751
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	0	4	0	0	2	6
	Sum of FacilityMorts	0	7	0	0	0	7
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	0	11	0	0	2	13
LMN	Sum of NumberCollected		47,145	10	70	23,867	71,092
	Sum of NumberBarged		0	0	0	0	0
	Sum of NumberBypassed		46,677	10	70	23,837	70,594
	Sum of NumberTrucked		0	0	0	0	0
	Sum of SampleMorts		14	0	0	0	14
	Sum of FacilityMorts		445	0	0	30	475
	Sum of ResearchMorts		0	0	0	0	0
	Sum of TotalProjectMorts		459	0	0	30	489
MCN	Sum of NumberCollected	107	109,956	745	349	26,716	137,873
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	107	109,881	745	349	26,701	137,783
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	0	29	0	0	3	32
	Sum of FacilityMorts	0	35	0	0	8	43
	Sum of ResearchMorts	0	5	0	0	2	7
	Sum of TotalProjectMorts	0	69	0	0	13	82
Total Sum of NumberCollected		1,663	622,752	2,523	731	702,988	1,330,657
Total Sum of NumberBarged		292	104,254	290	144	98,995	203,975
Total Sum of NumberBypassed		1,368	516,942	2,232	587	603,918	1,125,047
Total Sum of NumberTrucked		0	0	0	0	0	0
Total Sum of SampleMorts		2	123	0	0	17	142
Total Sum of FacilityMorts		1	713	1	0	54	769
Total Sum of ResearchMorts		0	705	0	0	2	707
Total Sum of TotalProjectMorts		3	1,541	1	0	73	1,618

Cumulative Adult Passage at Mainstem Dams Through: 05/01

DAM	EndDate	Spring Chinook						Summer Chinook						Fall Chinook					
		2008		2007		10-Yr Avg.		2008		2007		10-Yr Avg.		2008		2007		10-Yr Avg.	
		Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack
BON	05/01	43258	421	33057	1649	97916	1606	0	0	0	0	0	0	0	0	0	0	0	0
TDA	04/30	21356	177	18719	619	57243	685	0	0	0	0	0	0	0	0	0	0	0	0
JDA	05/01	15602	215	13931	627	45512	529	0	0	0	0	0	0	0	0	0	0	0	0
MCN	04/30	7074	64	6876	197	33064	312	0	0	0	0	0	0	0	0	0	0	0	0
IHR	04/30	4421	26	3225	52	20941	167	0	0	0	0	0	0	0	0	0	0	0	0
LMN	05/01	3026	6	2639	34	19480	113	0	0	0	0	0	0	0	0	0	0	0	0
LGS	05/01	1525	5	1483	25	17172	123	0	0	0	0	0	0	0	0	0	0	0	0
LGR	04/30	993	26	525	7	14787	53	0	0	0	0	0	0	0	0	0	0	0	0
PRD	04/29	626	6	329	1	4181	0	0	0	0	0	0	0	0	0	0	0	0	0
RIS	04/30	186	1	59	0	1799	5	0	0	0	0	0	0	0	0	0	0	0	0
RRH	04/30	13	0	13	0	487	1	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	04/30	962	10	5580	12	-	-	0	0	0	0	-	-	0	0	0	0	0	-

DAM	Coho						Sockeye			Steelhead			
	2008		2007		10-Yr Avg.		10-Yr			10-Yr			Wild
	Adult	Jack	Adult	Jack	Adult	Jack	2008	2007	Avg.	2008	2007	Avg.	2008
BON	0	0	0	0	0	0	0	0	0	1919	1878	2155	682
TDA	0	0	0	0	0	0	0	0	0	1084	1033	877	445
JDA	-1	0	0	0	0	0	0	0	0	2401	1610	2636	1091
MCN	0	0	0	0	0	0	0	0	0	2133	1693	1491	962
IHR	0	0	0	0	0	0	0	0	0	2944	2183	1820	1063
LMN	0	0	0	0	0	0	0	0	0	3542	2194	1850	1466
LGS	0	0	0	0	0	0	0	0	0	2187	2107	2066	783
LGR	0	0	0	0	0	0	0	0	0	7224	10371	7242	2118
PRD	0	0	0	0	0	0	0	0	0	24	10	2	0
RIS	0	0	0	0	0	0	0	0	0	150	24	25	75
RRH	0	0	0	0	0	0	0	0	0	282	90	98	137
WEL	0	0	0	0	0	0	0	0	0	0	0	0	0
WFA	0	0	2	0	-	-	0	0	-	4530	5933	-	-

BON and LGR have switched to video counts so the data is delayed.

*PRD is not posting wild steelhead numbers.

These numbers were collected from USACE, Grant PUD, Douglas PUD, Chelan PUD, ODFW and DART.

Wild steelhead numbers are included in the total. Wild Steelhead are defined as unclipped fish.

Historic counts (pre-1996) were obtained from CRITFC and compiled by the FPC.

Historic counts 1997 to present were obtained from the Corps of Engineers.

Page last updated on: 05/02/08

BON counts from January 1, 2008 to March 14, 2008 (our traditional counts begin March 15):

Year	Chinook Adult	Chinook Jack	Steelhead	Wild Steelhead
2008	42	0	578	278
2007	22	0	1,677	517