



Fish Passage Center Weekly Report #08 - 07

April 18, 2008

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Summary of Events:

Water Supply: Precipitation throughout the Columbia Basin has varied between 23% and 71% of average at individual sub-basins over April. Precipitation above The Dalles has been 49% of average over 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 1-14		Water Year 2008 October 1, 2007 to April 1-14, 2008	
	Observed (inches)	% Average	Observed (inches)	% Average
Columbia Above Coulee	0.44	57	15.43	103
SNAKE RIVER ABOVE ICE HARBOR	0.28	41	11.60	106
Columbia Above The Dalles	0.38	49	15.51	103
Kootenai	0.47	57	14.90	97
Clark Fork	0.18	32	10.38	108
Flathead	0.40	54	12.58	97
Pend Oreille/Spokane	0.73	69	22.70	107
Central Washington	0.10	32	4.66	75
SNAKE RIVER PLAIN	0.11	23	5.71	87
Salmon/Boise/Payette	0.25	34	14.55	108
Clearwater	0.85	69	20.79	105
SW Washington	1.54	62	52.35	94
Cascades/Cowlitz				
Willamette Valley	1.61	71	48.3	102

Snowpack within the Columbia Basin is above average. Average snowpack in the Columbia River for basins above the Snake River confluence is 111% of average, for Snake River Basins the average snowpack is 114% of average, and for

lower Columbia Basins between McNary and Bonneville Dam average snowpack is 195% of average.

Table 2 displays the March Final and April Final runoff volume forecasts for multiple reservoirs. Water Supply Forecasts generally were similar between the March Final and April Final forecasts, with the exception of Dworshak which increased 10%. The current forecast (April Final) at The Dalles between January and July is 101000 Kaf (94% of average).

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

Location	March Final		April Final	
	% Average (1971- 2000)	Probable Runoff Volume (Kaf)	% Average (1971- 2000)	Probable Runoff Volume (Kaf)
The Dalles (Jan-July)	96	103000	94	101000
Grand Coulee (Jan-July)	99	62300	97	61200
Libby Res. Inflow, MT (Jan-July)	98	6190	96	6080
Hungry Horse Res. Inflow, MT (Jan-July)	94	2100	96	2140
Lower Granite Res. Inflow (Apr-July)	107	23000	108	23300
Brownlee Res. Inflow (Apr-July)	87	5500	86	5400
Dworshak Res. Inflow (Apr-July)	110	2920	120	3160

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. Flows at Lower Granite Dam from April 3-16 have averaged 48.3 Kcfs, flows at Priest Rapids from April 10th to 16th averaged 83.8 Kcfs and at McNary 144.0 Kcfs over the same date range.

Grand Coulee Reservoir is at 1239.2 feet (4-16-08) and has drafted 5.2 feet in the last week. The end of April FC elevation at Grand Coulee based on the new April Final forecast is 1228.8 feet. Outflows at Grand Coulee have ranged between 68.3 and 98.7 Kcfs over the last week.

The Libby Reservoir is currently at elevation 2395.3 feet (4-16-08) and held steady last week. The end of April FC elevation at Libby based on the new April Final forecast is 2402.2 feet. Outflows at Libby are still the 4.0 Kcfs minimum.

Hungry Horse is currently at an elevation of 3502.6 ft (4-16-08) and has drafted 1.6 feet last week. The end of April FC elevation at Hungry Horse based on the new April Final forecast is 3521.3 feet. Outflows at Hungry Horse have increased somewhat over the last week, ranging between 3.6 and 4.5 Kcfs.

Dworshak is currently at an elevation of 1486.7 feet (4-16-08) and drafted 5.1 feet last week; outflows at Dworshak have been 10.9 Kcfs. The end of April FC at Dworshak is 1493.7 feet. At the April 16th, 2008 TMT Meeting, all parties agreed that outflows at Dworshak would remain at approximately 10.9 Kcfs for the next week.

The Brownlee Reservoir was at an elevation of 2031.2 feet on April 16th, 2008, refilling 2.6 feet last week. Outflows at Brownlee Dam have been 12.8 to 18.3 Kcfs over the last week. The end of April FC elevation at Brownlee based on the new April Final forecast is 2033.8 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 Kcfs and spill at Little Goose Dam is achieving the 30% over the 24 hour period. However, spill to the gas cap at Lower Monumental Dam has been decreased on 4/13 and again on 4/15 based on the Ice Harbor Dam forebay TDG reading; however, the tailrace readings at Lower Monumental Dam were well below the waiver limits. Spill at Ice Harbor Dam resumed court ordered spill of 45 Kcfs daytime spill and gas cap nighttime spill on April 11th, after the RSW seal replacement was completed.

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. Spill at John Day Dam was limited to less than the 60% nighttime spill since April 14th after the Dalles forebay exceeded 115%. Spill since that date has averaged between 49 and 57% of the nighttime average flow. Both The Dalles forebay and John Day tailrace TDG values are now well below the waiver limits. Spill at Bonneville Dams has been close to the Court's Order later in the week, but less than the 100 Kcfs earlier because of a restriction on the amount of water that could be spilled at slightly

lower forebay elevations.

Total dissolved gas at the federal hydroprojects was well under the waiver limits at the end of this past week. Earlier this week the forebay monitors exceeded the TDG waiver limits at Ice Harbor and The Dalles dams, likely as a result of the warm weather. Camas/Washougal also exceeded the 115% and the COE limited spill, but this monitor is no longer a required point of compliance for Oregon Department of Environmental Quality or the Washington Department of Ecology.

Gas bubble trauma (GBT) monitoring occurred at all the Snake River sites and at Bonneville Dam. Unusually high levels of GBT were observed in steelhead at Little Goose Dam. This occurrence is highly unusual in that the only spill that is occurring is at Lower Granite Dam, where spill is limited to the RSW and training spill of 20 Kcfs. The TDG levels in the tailrace of Lower Granite and forebay of Little Goose dam were near the national standard of 110%. The SMP crews will repeat sample GBT and further investigations into the potential cause for this occurrence is being investigated.

Smolt Monitoring: Relatively large numbers of smolts have been captured at SMP traps over the past week as hatchery releases and wild out-migrant numbers continued to increase. Smolt passage continued to pick up in the hydro-system as well with passage indices at Lower Granite Dam above 10,000 for both yearling Chinook and steelhead smolts.

At the Salmon River Trap over the past several days the catch was predominantly hatchery origin yearling Chinook. Based on PIT-tag recaptures over the past week, those smolts 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, rose from 4,000 cfs to 10 Kcfs this past week. With the warmer weather flows finally came up to near average levels for this time of year on April 15.

At the Imnaha River Trap nearly 16,000 yearling Chinook were captured on April 14, with nearly of all those fish, hatchery origin fish;

those fish were likely releases from Looking Glass Hatchery, released at the Imnaha Acclimation Pond. Steelhead numbers were up as well this past week. Data is limited from the site this week due to high numbers of fish in the sample. As in the Salmon River flows increased at the Imnaha Trap this week, with flows reaching 1,000 cfs on April 14, which slightly exceeded historic average for that date.

At the Grande Ronde Trap they have captured between 300 and 500 yearling Chinook per day over the past week; predominantly hatchery origin yearling Chinook. Steelhead catch also increased this past week, with collection between 100 to 500 per day the past four days. Flows on the Grande Ronde River have increased more rapidly to the increased temperatures this past week, with flows exceeding historic average of 6,000 cfs over the past several days.

At the Lewiston Trap on the Snake River IDFG crews began to catch increased numbers of yearling Chinook and steelhead as flows increased and migrant smolts began passing in increasing numbers. The trap fishes best at higher flows, and flows prior to this week have been well below normal, with discharge ranging between 20 and 30 Kcfs. This week flows rose to 35 Kcfs, which is nearer the normal 40 Kcfs average for this time of year.

At Lower Granite Dam the daily passage indices for yearling Chinook and steelhead both rose above 10,000 fish on April 17, when the passage index rose to near 12,000 for yearling Chinook and 16,000 for steelhead. PIT-tagged wild yearling Chinook detected from April 3 to present were largely from the Imnaha River basin (326 of 426 detections).

Hatchery PIT-tagged yearling Chinook were predominantly from releases at Dworshak NFH, with 292 of 534 detections since April 1 from that hatchery; followed by detections from Clearwater River releases at Kooskia NFH (58 detections), and 89 detections from Selway River releases. Most of the PIT-tagged hatchery steelhead have been arriving from marks at the Smolt Monitoring traps with 39 marked at the Salmon River Trap, 9 from the Grande Ronde River Trap and 40 from the

Snake River Trap. Increasing numbers (albeit small numbers) of subyearling Chinook, coho and sockeye smolts have also been sampled at the dam.

Another notable pulse of hatchery subyearling Chinook passed Bonneville Dam beginning on April 12, with a passage index of 240,000 on that date; those were smolts from a release of 4 million fish from Spring Creek NFH that occurred on April 10.

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 452,000 yearling fall Chinook were released from acclimation ponds on the Snake (67%) and Clearwater (33%) rivers on April 15th and 16th. This week marked the end of two volitional releases of yearling spring Chinook from acclimation facilities on the Grande Ronde River. In all, these releases totaled 249,323 spring Chinook juveniles. A volitional release of approximately 131,500 yearling spring Chinook juveniles from the Lostine Acclimation ponds on the Wallowa River was scheduled to end this week. Also scheduled to end this week was a release of approximately 1.04 million yearling summer Chinook juveniles to the Pahsimeroi River. Finally, approximately 2.26 million summer steelhead juveniles were scheduled for release over the past week. Of these, approximately 76% were scheduled for release into the Clearwater River and its tributaries. Approximately 7% were scheduled for release into the Imnaha and Grande Ronde rivers, each. The remaining 10% were scheduled for release into the Snake River Zone below Lower Granite Dam to the Tucannon (7%) and Snake (3%, at Lyons Ferry Hatchery) rivers.

A volitional release of approximately 2.5 million yearling spring Chinook juveniles from Rapid River Hatchery is scheduled to end next week, April 25th. This release began in mid-March. Also scheduled to end next week is a release of 174,000 yearling spring Chinook juveniles from Sawtooth Hatchery to the Salmon River and a release of approximately 184,000 spring Chinook juveniles from Tucannon Hatchery to the

Tucannon River. Several releases totaling about 2.8 million summer steelhead are scheduled to end in the next two weeks. Of these, approximately 69% were scheduled for release into the Salmon River, while 31% were scheduled for release into the Pahsimeroi River. In addition, several releases of summer steelhead are scheduled to begin over the next two weeks. In all, approximately 2.07 million summer steelhead are scheduled for release into this zone over the next two weeks, with the majority (63%) scheduled for release into the Clearwater River from Dworshak National Fish Hatchery. The remaining 37% are scheduled for release into the Salmon (22%) and Grande Ronde (15%) rivers. Finally, about 140,000 sockeye juveniles are scheduled for release into this zone, beginning May 1st. Approximately half of these sockeye juveniles will be released into Redfish Lake, while the other half will be released into 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. Approximately 512,000 subyearling fall Chinook were scheduled for release into the Yakima River this week. Just under 1.83 million yearling spring Chinook were scheduled for release into this zone over the past week. Of these, about 52% were scheduled for release into the Methow River, while 34% and 14% were scheduled for release into the Wenatchee and Okanogan rivers, respectively.

Three volitional releases totaling about 1.34 million yearling summer Chinook were scheduled to begin this week. These summer Chinook juveniles are being released to the Okanogan (45.3%), Methow (31.4%), and Mid-Columbia (23.3%) rivers and are all expected to run through mid-May. Finally, about 280,000 summer steelhead juveniles were scheduled for release into this zone over the past week.

These steelhead were being released to the Mid-Columbia (64%) and Walla Walla (36%) rivers. In addition to the 512,000 subyearling fall Chinook that were scheduled for this week, 300,000 subyearling fall Chinook juveniles are scheduled for release into the Yakima River, beginning April 21st.

Approximately 1.65 million yearling spring Chinook are scheduled for release into the Wenatchee River over the next two weeks.

Of these, 115,000 are scheduled for release from net pens into Lake Wenatchee. Just under 1.07 million yearling summer Chinook are scheduled for release into this zone over the next two weeks. Of these 87% are scheduled for release into the Wenatchee River, while 13% will be released into the Mid-Columbia River. Over 2.46 million coho juveniles are scheduled for release into this zone over the next two weeks. These releases are part of the Yakama Tribal Program to re-establish Coho runs in the Yakima, Methow, and Wenatchee basins. Of these 2.46 million coho juveniles, approximately 40% are scheduled for release into the Wenatchee River, 37% are scheduled for release into the Yakima River, and 14% are scheduled for release into the Methow River. The remaining 9% will be released to the Mid-Columbia River from Wells Hatchery.

Many of these releases are volitional are expected to run through early to mid-May. Finally, nearly 1.25 million summer steelhead are scheduled for release into this zone over the next two weeks. Approximately 34.3% of these steelhead are scheduled for release into the Methow River. About 26.3% are scheduled for release into the Wenatchee River. However, the dates for these releases are preliminary and may change. The remaining 39.4% will be split between the Okanogan (12.7%), Touchet (12.3%), and Mid-Columbia (14.4%) rivers.

Lower Columbia Zone: The Lower Columbia Zone is defined as the Columbia River and its tributaries from Bonneville Dam to McNary Dam. On April 11th, over 1.33 million yearling spring Chinook were released into the Wind River from Carson National Fish Hatchery. This release occurred earlier than the originally anticipated April 15th date. On April 17th, the Little White Salmon National Fish Hatchery released 934,438 yearling spring Chinook juveniles into the Little White Salmon River.

Approximately 778,000 coho juveniles were released into the Umatilla River this week from Pendleton Acclimation Pond. Finally, about 500

summer steelhead were scheduled for release into a tributary of Lake Billy Chinook this week. This release is part of a PGE passage study on the Deschutes River.

The final release of subyearling fall Chinook Tules from Spring Creek NFH is scheduled to take place in early May. Approximately 3.75 million subyearling fall Chinook Tules are anticipated for this release. A volitional release of approximately 376,000 yearling spring Chinook from Warm Springs National Fish Hatchery is scheduled to end next week (April 23rd). This release began in mid-March. About 281,000 summer steelhead juveniles are scheduled for release into this zone over the next two weeks. Of these, about 53% will be released from acclimation ponds on the Umatilla River.

The remaining 47% will be split between the Klickitat (34%), White Salmon (9%), and Hood (4%) rivers. In addition to the summer steelhead, approximately 88,000 winter steelhead are scheduled for release into this zone over the next two weeks. About 76% of these winter steelhead will be release into Hood River, while the remaining 24% are scheduled for release into the White Salmon River.

Adult Fish Passage

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

Adult counts at Bonneville Dam have been updated through April 17th. Between March 15th and April 17th, 8,959 adult spring Chinook had passed Bonneville Dam. Daily adult spring Chinook counts at Bonneville ranged

from 111 to 1,314. The 2008 count was about two times larger than the 2007 adult spring Chinook count of 4,300 at Bonneville Dam but is only 22% of the ten year average. The Bonneville adult steelhead count for the same date range this year was 1,365 fish which was about 90% of the 2007 count of 1,515 fish. The 2008 wild steelhead count at Bonneville Dam was 523 fish as of April 17th. At Willamette Falls Dam, the 2008 count for steelhead was 3,297, as of April 16th. This year's steelhead count is about 68.6% of the 2007 count of 4,802 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 112 to 157 adult steelhead last week. The total steelhead count passing at Lower Granite Dam as of April 17th was 6,030. The 2008 count was about 60.4% of the 2007 count of 9,976 and about 89.2% of the 10-year average count of 6,755 at Lower Granite Dam. The 2008 wild steelhead at Lower Granite Dam as of April 17th was 1,548. At Rock Island Dam, as of April 16th, 26 adult steelhead have been counted and at Rocky Reach Dam, 76 adult steelhead have been counted so far this season.

In an article in the Columbian on Thursday April 17th, staff writer Allen Thomas reported that sportsmen have been catching about 1,200 to 1,400 spring Chinook a day. Biologist Chris Kern of ODFW projected the catch through Sunday to be slightly more than 22,300 spring Chinook kept and 4,000 released. The spring Chinook sport-fishing season will close on Monday to avoid exceeding the spring Chinook sport-fishing allocation of 24,000 this spring.

Scott Learn, a writer for the Oregonian, reported on Thursday April 17th that a federal judge refused to stop Oregon and Washington from trapping and killing California sea lions at Bonneville Dam this spring to keep them from foraging on the endangered salmon at the dam.

The Humane Society had filed a lawsuit against the states' Bonneville Dam sea lion

predation control plan. State officials could begin trapping sea lions as early as Tuesday. The officials are authorized to capture and kill up to 85 sea lions a year for five years. Oregon states' goal is to capture 30 this year, with first priority given to relocating the animals to captive environments such as Sea World.

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
04/04/2008	85.3	0.0	88.3	0.0	107.6	0.0	104.7	0.0	98.4	0.0	90.2	0.0	84.0	0.0
04/05/2008	52.9	0.0	47.1	0.0	50.7	0.0	54.3	0.0	56.1	0.0	101.9	0.0	102.7	0.0
04/06/2008	32.4	0.0	39.4	0.0	41.0	0.0	37.3	0.0	38.1	0.0	67.9	0.0	74.3	0.0
04/07/2008	82.3	0.0	74.2	0.0	82.7	0.0	85.6	0.0	86.4	0.0	78.9	1.2	67.2	0.0
04/08/2008	62.4	0.0	68.8	0.0	63.1	0.0	58.8	0.0	59.4	0.0	64.4	2.3	75.1	0.0
04/09/2008	75.7	0.0	72.3	0.0	63.0	0.0	59.2	0.0	60.4	0.0	56.3	0.0	58.6	0.0
04/10/2008	98.7	0.0	102.6	0.0	100.6	0.0	95.8	0.0	92.0	0.0	75.7	0.0	63.8	0.0
04/11/2008	92.9	0.0	94.2	0.0	101.7	0.0	101.0	0.0	97.5	0.0	106.7	0.0	103.9	0.0
04/12/2008	68.3	0.0	71.4	0.0	78.6	5.8	73.7	0.0	73.2	0.0	89.7	0.0	87.3	0.0
04/13/2008	70.0	0.0	63.6	0.0	60.8	4.3	56.1	0.0	56.2	0.0	74.1	0.0	70.7	0.0
04/14/2008	83.4	0.0	85.1	0.0	89.5	6.9	85.3	0.0	84.6	0.0	73.2	0.0	73.5	0.0
04/15/2008	89.2	0.0	92.0	0.0	102.3	7.4	98.9	0.0	95.3	0.0	104.2	0.0	98.2	0.0
04/16/2008	72.3	0.0	76.4	0.0	77.8	6.2	72.7	0.0	72.6	0.0	84.7	0.0	88.9	0.0
04/17/2008	65.7	0.0	66.9	0.0	71.8	5.4	69.4	0.0	69.7	9.6	83.8	0.0	78.4	0.0

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

Date	Dworshak		Brownlee Canyon		Hells Granite		Lower Granite		Little Goose		Lower Monumental		Ice Harbor	
	Flow	Spill	Inflow	Outflow	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill
04/04/2008	15.5	4.7	13.0	16.8	42.5	20.4	40.8	12.2	39.6	26.5	42.1	32.5		
04/05/2008	15.0	4.0	13.5	18.3	44.7	20.3	43.9	13.1	43.5	27.0	46.8	37.2		
04/06/2008	15.0	3.9	13.1	15.5	45.3	20.3	44.7	13.4	43.0	29.6	46.6	37.0		
04/07/2008	15.0	4.1	14.0	18.7	43.5	20.3	45.1	13.2	43.5	29.8	46.1	26.3		
04/08/2008	14.9	4.4	13.8	17.4	47.8	20.3	47.1	14.0	44.1	27.8	49.3	29.0		
04/09/2008	15.0	4.3	13.8	14.6	46.3	20.4	43.1	12.9	43.2	28.8	47.2	26.1		
04/10/2008	15.0	4.2	13.9	16.2	46.1	20.3	45.2	13.5	42.7	28.9	46.2	24.1		
04/11/2008	12.1	1.3	14.6	17.9	44.2	20.3	44.4	13.4	42.3	30.1	45.8	36.0		
04/12/2008	10.8	0.0	15.8	14.8	45.5	20.2	44.2	13.3	43.0	30.7	50.3	40.4		
04/13/2008	10.9	0.0	15.7	14.8	43.6	20.1	40.5	12.1	38.7	26.6	38.2	28.2		
04/14/2008	10.9	0.0	18.1	18.7	54.7	20.2	56.2	17.0	54.7	26.1	61.0	46.6		
04/15/2008	10.9	0.0	20.1	15.4	63.6	20.4	63.3	18.9	61.8	23.8	65.6	49.2		
04/16/2008	11.0	0.0	19.0	16.6	62.7	20.3	61.4	18.5	61.3	23.8	66.7	46.4		
04/17/2008	11.0	0.0	---	---	61.8	20.2	59.6	17.9	58.8	24.8	63.7	44.2		

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		
04/04/2008	130.2	0.0	128.2	11.5	129.9	0.0	136.8	1.5	38.3	85.6
04/05/2008	120.3	0.0	99.4	0.0	103.2	0.0	119.4	1.6	24.4	82.0
04/06/2008	135.3	0.0	126.4	0.0	127.3	0.0	124.9	1.6	29.1	82.8
04/07/2008	116.5	0.0	128.9	0.0	135.3	0.0	149.4	1.6	49.6	86.9
04/08/2008	131.2	0.0	130.4	0.0	130.4	0.0	139.7	1.6	41.7	85.0
04/09/2008	113.2	6.5	128.2	0.0	130.2	0.0	149.3	1.6	47.2	89.1
04/10/2008	112.5	45.1	117.9	38.2	120.8	48.9	142.2	98.9	0.0	31.9
04/11/2008	139.3	56.0	145.4	42.7	140.8	56.3	146.9	99.3	0.0	36.3
04/12/2008	154.2	62.2	155.9	44.3	152.3	60.8	165.2	97.5	3.0	53.3
04/13/2008	121.0	49.0	104.6	33.4	104.4	41.9	140.1	90.2	0.0	38.5
04/14/2008	141.8	57.1	137.1	32.5	127.5	51.0	141.2	89.5	2.2	38.2
04/15/2008	160.6	64.6	160.6	44.1	156.2	62.4	158.8	95.9	0.0	51.5
04/16/2008	178.4	71.8	187.4	47.6	186.5	75.0	199.7	99.4	42.4	48.8
04/17/2008	160.2	64.5	---	---	156.3	62.6	186.3	100.9	0.0	74.1

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											
	04/08/08	Chinook + Steelhead	36	0	0	0.00%	0.00%	0	0	0	0
	04/15/08	Chinook + Steelhead	76	0	0	0.00%	0.00%	0	0	0	0
Little Goose Dam											
	04/15/08	Chinook + Steelhead	100	25	25	25.00%	1.00%	20	4	0	1
Rock Island Dam											
McNary Dam											
Bonneville Dam											
	04/08/08	Chinook + Steelhead	35	0	0	0.00%	0.00%	0	0	0	0
	04/12/08	Chinook + Steelhead	4	0	0	0.00%	0.00%	0	0	0	0
	04/15/08	Chinook + Steelhead	99	0	0	0.00%	0.00%	0	0	0	0
Lower Monumental Dam											
	04/14/08	Chinook + Steelhead	36	0	0	0.00%	0.00%	0	0	0	0

HATCHERY RELEASE LAST TWO WEEKS

Hatchery Release Summary

From: **4/4/2008** to **04/17/08**

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	Entiat Hatchery	CH1	SP	2008	40,000	04-09-08	04-15-08	Omak Creek	Okanogan River
Colville Tribe	Entiat Hatchery	CH1	SP	2008	215,000	04-15-08	04-15-08	Okanogan River	Okanogan River
Colville Tribe Total					275,000				
Idaho Dept. of Fish and Game	Clearwater Hatchery	ST	SU	2008	83,000	04-07-08	04-18-08	Red River	S Fk Clearwater River
Idaho Dept. of Fish and Game	Clearwater Hatchery	ST	SU	2008	144,600	04-07-08	04-18-08	Crooked River Redhouse (SFk	S Fk Clearwater River
Idaho Dept. of Fish and Game	Clearwater Hatchery	ST	SU	2008	248,500	04-07-08	04-18-08	ClearH20 R)	S Fk Clearwater River
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2008	30,000	04-11-08	04-27-08	Pahsimeroi River	Pahsimeroi River
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	60,000	04-07-08	04-07-08	Squaw Cr Acclim Pond	Salmon River (ID)
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2008	60,000	04-11-08	04-27-08	Salmon River (ID)	Salmon River (ID)
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2008	60,000	04-11-08	04-27-08	Squaw 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	80,000	04-11-08	04-27-08	Shoup Br (Salmon R)	Salmon River (ID)
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2008	120,000	04-11-08	04-27-08	McNabb/Salmon River	Salmon River (ID)
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2008	120,000	04-11-08	04-27-08	Salmon River (ID)	Salmon River (ID)
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2008	140,000	04-11-08	04-27-08	Salmon River (ID)	Salmon River (ID)
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2008	191,000	04-11-08	04-27-08	Squaw Creek	Salmon River (ID)
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2008	217,185	04-07-08	04-10-08	Little Salmon River	Salmon River (ID)
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2008	225,000	04-11-08	04-27-08	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	272,907	04-02-08	04-09-08	Little Salmon River	Salmon River (ID)
Idaho Dept. of Fish and Game	Niagara Springs	ST	SU	2008	830,000	04-03-08	04-21-08	Pahsimeroi River	Pahsimeroi River
Idaho Dept. of Fish and Game	Pahsimeroi Hatchery	CH1	SU	2008	1,038,000	03-31-08	04-15-08	Pahsimeroi River	Pahsimeroi River
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	174,000	04-11-08	04-25-08	Salmon River (ID)	Salmon River (ID)
Idaho Dept. of Fish and Game Total					6,739,192				
Nez Perce Tribe	Cascade Hatchery	CO	UN	2008	74,696	04-08-08	04-08-08	Clear Creek	Clearwater River M F
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	04-13-08	04-19-08	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	Dworshak NFH	CO	UN	2008	291,794	04-08-08	04-08-08	Clear Creek	Clearwater River M F
Nez Perce Tribe	Dworshak NFH	ST	SU	2008	100,000	04-14-08	04-18-08	American River	S Fk Clearwater River
Nez Perce Tribe	Dworshak NFH	ST	SU	2008	100,000	04-14-08	04-18-08	Newsome Creek	S Fk Clearwater River
Nez Perce Tribe	Lookingglass Hatchery	CH1	SP	2008	131,500	04-10-08	04-17-08	Lostine Accim Pond Big Canyon (Clearwater	Wallowa River
Nez Perce Tribe	Lyons Ferry Hatchery	CH1	FA	2008	147,832	04-15-08	04-15-08	River) Pittsburg Landing	Clearwater River M F
Nez Perce Tribe	Lyons Ferry Hatchery	CH1	FA	2008	150,357	04-14-08	04-14-08	Acclim Pond	Snake River
Nez Perce Tribe	Lyons Ferry Hatchery	CH1	FA	2008	153,681	04-14-08	04-14-08	Cpt John Acclim Pond Nez Perce Tribal	Snake River
Nez Perce Tribe	Nez Perce Tribal Hatchery	CH1	SP	2008	126,000	04-07-08	04-10-08	Hatchery	Clearwater River M F
Nez Perce Tribe Total					1,619,860				
Oregon Dept. of Fish and Wildlife	Irrigon Hatchery Complex	ST	SU	2008	101,400	04-09-08	04-10-08	Big Sheep Creek	Imnaha River
Oregon Dept. of Fish and Wildlife	Irrigon Hatchery Complex	ST	SU	2008	160,000	04-14-08	04-14-08	Big Canyon Acclim.Pd (Grande Ronde)	Grande Ronde River
Oregon Dept. of Fish and Wildlife	Irrigon Hatchery Complex	ST	SU	2008	165,000	04-15-08	04-15-08	L Sheep Acclim Pond	Imnaha River
Oregon Dept. of Fish and Wildlife	Irrigon Hatchery Complex	ST	SU	2008	360,000	04-08-08	04-08-08	Wallowa Acclim Pond	Wallowa River
Oregon Dept. of Fish and Wildlife	Lookingglass Hatchery	CH1	SP	2008	348,910	03-25-08	04-06-08	Imnaha Acclim Pond	Imnaha River
Oregon Dept. of Fish and Wildlife	Oak Springs Hatchery	ST	SU	2008	500	04-15-08	04-15-08	Deschutes River	Deschutes River
Oregon Dept. of Fish and Wildlife	Round Butte Hatchery	ST	SU	2008	162,000	04-07-08	04-07-08	Deschutes River	Deschutes River
Oregon Dept. of Fish and Wildlife Total					1,297,810				

HATCHERY RELEASE LAST TWO WEEKS (Cont'd)

U.S. Fish and Wildlife Service	Carson NFH	CH1	SP	2008	1,336,741	04-11-08	04-11-08	Carson Hatchery	Wind River
U.S. Fish and Wildlife Service	Dworshak NFH	ST	SU	2008	300,000	04-14-08	04-18-08	Clear Creek Redhouse (SFk	Clearwater River M F
U.S. Fish and Wildlife Service	Dworshak NFH	ST	SU	2008	400,000	04-14-08	04-18-08	ClearH20 R)	S Fk Clearwater River
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	Kooskia NFH	CH1	SP	2008	649,601	04-07-08	04-07-08	Kooskia Hatchery Little White Salmon	Clearwater River M F Little White Salmon River
U.S. Fish and Wildlife Service	Little White Salmon NFH	CH1	SP	2008	934,438	04-17-08	04-17-08	River	River
U.S. Fish and Wildlife Service	Spring Creek NFH	CH0	FA	2008	4,013,900	04-10-08	04-10-08	Spring Creek Hatchery Warm Springs	L Col R (D/s McN Dam)
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	Winthrop NFH	CH1	SP	2008	511,242	04-14-08	04-18-08	Winthrop Hatchery	Methow River
U.S. Fish and Wildlife Service Total					9,303,922				
Umatilla Tribe	Cascade Hatchery	CO	UN	2008	778,013	04-16-08	04-16-08	Pendelton Acclim Pond	Umatilla River
Umatilla Tribe	Lookingglass Hatchery	CH1	SP	2008	116,882	03-24-08	04-14-08	Catherine Creek Grande Ronde Acclim	Grande Ronde River
Umatilla Tribe	Lookingglass Hatchery	CH1	SP	2008	132,441	04-07-08	04-14-08	Pond	Grande Ronde River
Umatilla Tribe	Umatilla Hatchery	CH1	SP	2008	463,782	03-04-08	04-10-08	Imeques Acclim Pond	Umatilla River
Umatilla Tribe Total					1,491,118				
Warm Springs Tribe	Round Butte Hatchery	CH1	SP	2008	69,612	04-09-08	05-07-08	Blackberry Acclim Pond	Hood River
Warm Springs Tribe Total					69,612				
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	Lyons Ferry Hatchery	CH1	FA	2008	459,633	04-07-08	04-10-08	Lyons Ferry Hatchery	Snake River
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	ST	SU	2008	60,000	04-15-08	04-17-08	Lyons Ferry Hatchery	Snake River
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	ST	SU	2008	100,000	04-15-08	04-17-08	Tucannon River	Tucannon River
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	ST	SU	2008	100,000	04-15-08	04-17-08	Walla Walla River	Walla Walla River
Washington Dept. of Fish and Wildlife	Methow Hatchery	CH1	SP	2008	47,000	04-15-08	04-15-08	Twisp Acclim Pond	Methow River
Washington Dept. of Fish and Wildlife	Methow Hatchery	CH1	SP	2008	190,000	04-15-08	04-15-08	Chewuch Acclim Pond	Methow River
Washington Dept. of Fish and Wildlife	Methow Hatchery	CH1	SP	2008	210,000	04-15-08	04-15-08	Methow Hatchery	Methow 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	Methow River
Washington Dept. of Fish and Wildlife	Ringold Springs Hatchery	CH1	SP	2008	329,853	04-01-08	04-08-08	Hatchery Ringold Springs	Mid-Columbia 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	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	04-10-08	04-24-08	Tucannon River	Tucannon River
Washington Dept. of Fish and Wildlife	Tucannon Hatchery	ST	SU	2008	57,000	04-15-08	04-18-08	Tucannon River	Tucannon 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 Total					3,874,486				
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 Total					647,620				
Grand Total					25,318,620				

HATCHERY RELEASE NEXT TWO WEEKS

Hatchery Release Summary

From: **4/18/2008** to **5/1/2008**

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	Clearwater Hatchery	ST	SU	2008	83,000	04-07-08	04-18-08	Red River	S Fk Clearwater River
Idaho Dept. of Fish and Game	Clearwater Hatchery	ST	SU	2008	144,600	04-07-08	04-18-08	Crooked River Redhouse (SFk ClearH20 R)	S Fk Clearwater River S Fk Clearwater River
Idaho Dept. of Fish and Game	Clearwater Hatchery	ST	SU	2008	248,500	04-07-08	04-18-08	ClearH20 R)	S Fk Clearwater River
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2008	30,000	04-11-08	04-27-08	Pahsimeroi River	Pahsimeroi River
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	30,000	04-29-08	04-30-08	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	Salmon River (ID)	Salmon River (ID)
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2008	60,000	04-11-08	04-27-08	Squaw 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	80,000	04-11-08	04-27-08	Shoup Br (Salmon R)	Salmon River (ID)
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2008	120,000	04-11-08	04-27-08	McNabb/Salmon River	Salmon River (ID)
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2008	120,000	04-11-08	04-27-08	Salmon River (ID)	Salmon River (ID)
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2008	140,000	04-11-08	04-27-08	Salmon River (ID)	Salmon River (ID)
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2008	191,000	04-11-08	04-27-08	Squaw Creek	Salmon River (ID)
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2008	225,000	04-11-08	04-27-08	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	04-03-08	04-21-08	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	174,000	04-11-08	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					5,491,100				
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	04-13-08	04-19-08	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	Dworshak NFH	ST	SU	2008	100,000	04-14-08	04-18-08	American River	S Fk Clearwater River
Nez Perce Tribe	Dworshak NFH	ST	SU	2008	100,000	04-14-08	04-18-08	Newsome Creek	S Fk Clearwater River
Nez Perce Tribe Total					544,000				
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	Umatilla Hatchery	ST	SU	2008	50,000	04-29-08	04-29-08	Meacham Creek	Umatilla River
Oregon Dept. of Fish and Wildlife Total					210,000				
U.S. Fish and Wildlife Service	Dworshak NFH	ST	SU	2008	300,000	04-14-08	04-18-08	Clear Creek Redhouse (SFk)	Clearwater River M F
U.S. Fish and Wildlife Service	Dworshak NFH	ST	SU	2008	400,000	04-14-08	04-18-08	ClearH20 R)	S Fk Clearwater River
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	Wenatchee River
U.S. Fish and Wildlife Service	Spring Creek NFH	CH0	FA	2008	3,750,000	05-01-08	05-07-08	Spring Creek Hatchery Warm Springs	L Col R (D/s McN Dam)
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	Winthrop NFH	CH1	SP	2008	511,242	04-14-08	04-18-08	Winthrop Hatchery	Methow River
U.S. Fish and Wildlife Service	Winthrop NFH	ST	SU	2008	118,470	04-28-08	04-30-08	Winthrop Hatchery	Methow River
U.S. Fish and Wildlife Service Total					9,319,712				
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				
Warm Springs Tribe	Oak Springs Hatchery	ST	SU	2008	12,221	04-22-08	05-08-08	Blackberry Acclim Pond	Hood River
Warm Springs Tribe	Oak Springs Hatchery	ST	WI	2008	26,812	04-24-08	05-16-08	Parkdale Acclim Pond	Hood River
Warm Springs Tribe	Oak Springs Hatchery	ST	WI	2008	40,518	04-25-08	05-15-08	E Fk Hood River	Hood River
Warm Springs Tribe	Round Butte Hatchery	CH1	SP	2008	69,612	04-09-08	05-07-08	Blackberry Acclim Pond	Hood River
Warm Springs Tribe Total					149,163				

HATCHERY RELEASE NEXT TWO WEEKS (Cont'd)

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	Little White Salmon NFH	CH1	SP	2008	115,000	05-01-08	05-31-08	Lake Wenatchee	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	04-21-08	04-25-08	Dayton Acclim Pond Cottonwood Acclim	Touchet River
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	ST	SU	2008	160,000	04-21-08	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	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	04-10-08	04-24-08	Tucannon River	Tucannon River
Washington Dept. of Fish and Wildlife	Tucannon Hatchery	ST	SU	2008	57,000	04-15-08	04-18-08	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					4,791,317				
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	CH0	FA	2008	500,000	04-18-08	04-18-08	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	04-19-08	04-25-08	Winthrop Hatchery	Methow River
Yakama Tribe	Yakama Hatchery	CH0	FA	2008	12,000	04-18-08	04-18-08	Marion Drain	Yakima River
Yakama Tribe Total					3,926,373				
Grand Total					24,551,665				

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>			
4/4	98	98	99	24	105	106	108	22	105	106	106	24	104	105	106	22	---	---	---	0
4/5	98	98	98	24	104	104	105	22	105	106	106	24	105	106	108	22	---	---	---	0
4/6	98	98	98	24	104	104	105	23	106	106	106	24	105	106	107	23	---	---	---	0
4/7	97	98	98	24	104	105	105	22	105	105	106	24	105	105	107	22	---	---	---	0
4/8	98	98	98	24	104	104	106	22	105	106	106	24	104	105	106	22	---	---	---	0
4/9	98	98	99	24	104	105	105	24	105	106	106	24	104	105	107	24	---	---	---	0
4/10	97	97	97	24	104	104	105	22	105	105	106	24	103	104	104	22	---	---	---	0
4/11	96	96	97	24	103	104	105	24	105	105	106	24	103	103	104	24	---	---	---	0
4/12	96	96	97	24	104	106	106	22	106	107	107	24	104	105	105	22	---	---	---	0
4/13	97	97	98	24	105	106	107	23	107	108	109	24	105	107	107	23	---	---	---	0
4/14	98	98	98	24	106	107	108	21	108	108	108	24	106	106	107	21	103	103	103	20
4/15	98	98	98	24	105	105	106	21	106	106	107	24	104	105	107	21	102	102	102	24
4/16	97	97	98	24	105	106	107	23	105	105	106	24	104	104	105	23	102	102	102	7
4/17	97	98	98	24	105	107	108	22	107	107	108	24	105	105	107	22	---	---	---	0

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>			
4/4	---	---	---	0	104	105	105	24	105	105	105	24	105	105	105	24	105	105	105	24
4/5	---	---	---	0	104	105	105	24	105	105	106	24	105	105	105	24	105	105	106	24
4/6	---	---	---	0	104	105	105	24	105	105	106	24	105	105	106	24	105	105	106	24
4/7	---	---	---	0	104	105	105	24	104	105	105	24	105	105	105	24	105	105	105	24
4/8	---	---	---	0	104	105	105	24	104	105	105	24	105	105	105	24	105	105	105	24
4/9	---	---	---	0	104	105	105	24	104	105	105	24	105	105	105	24	105	105	105	24
4/10	---	---	---	0	104	104	104	24	104	104	105	24	104	104	105	24	104	104	105	24
4/11	---	---	---	0	104	105	105	24	104	105	105	24	104	104	104	24	104	104	104	24
4/12	---	---	---	0	105	105	106	24	105	107	107	24	104	105	105	24	104	105	105	24
4/13	---	---	---	0	106	107	108	24	107	108	108	24	106	106	107	23	106	107	107	23
4/14	107	107	108	20	107	107	108	24	108	109	109	24	107	107	108	24	107	108	108	24
4/15	106	107	107	24	105	105	106	24	106	107	107	24	107	107	107	24	107	107	108	24
4/16	105	105	105	7	104	104	105	22	105	106	107	22	106	106	106	24	106	106	107	24
4/17	---	---	---	0	105	106	107	19	107	107	108	19	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>			
4/4	101	104	105	24	101	104	105	24	---	---	---	0	---	---	---	0	---	---	---	0
4/5	105	105	106	24	105	105	106	24	---	---	---	0	---	---	---	0	---	---	---	0
4/6	105	106	107	24	105	106	106	24	---	---	---	0	---	---	---	0	---	---	---	0
4/7	105	105	105	24	105	105	105	24	---	---	---	0	---	---	---	0	---	---	---	0
4/8	105	105	106	24	105	105	106	24	---	---	---	0	---	---	---	0	---	---	---	0
4/9	105	105	106	24	105	106	106	24	---	---	---	0	---	---	---	0	---	---	---	0
4/10	104	105	105	24	105	105	105	24	---	---	---	0	---	---	---	0	---	---	---	0
4/11	104	105	105	24	104	105	105	24	---	---	---	0	---	---	---	0	---	---	---	0
4/12	105	105	106	24	105	105	106	24	---	---	---	0	---	---	---	0	---	---	---	0
4/13	106	107	108	23	107	107	108	23	---	---	---	0	---	---	---	0	---	---	---	0
4/14	107	107	108	24	107	107	108	24	---	---	---	0	---	---	---	0	---	---	---	0
4/15	106	107	107	24	107	107	107	24	---	---	---	0	---	---	---	0	---	---	---	0
4/16	106	106	106	24	106	106	106	24	---	---	---	0	---	---	---	0	---	---	---	0
4/17	106	107	107	24	110	112	115	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>Clrwtr-Peck</u>			<u>Anatone</u>							
	<u>24 h</u>	<u>12 h</u>	<u>High</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>High</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</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>
4/4	---	---	---	0	104	104	105	24	108	110	110	24	105	106	107	24	102	103	103	24
4/5	---	---	---	0	103	104	105	24	105	106	106	24	103	104	105	24	102	103	104	24
4/6	---	---	---	0	104	105	105	24	106	106	107	24	103	104	105	24	102	103	104	24
4/7	---	---	---	0	103	103	103	24	106	107	108	24	104	105	106	24	102	103	104	24
4/8	---	---	---	0	103	104	105	24	107	108	108	24	105	106	107	24	102	104	105	24
4/9	---	---	---	0	104	105	105	24	107	107	108	24	104	105	106	24	102	103	104	24
4/10	---	---	---	0	104	105	105	24	106	107	107	24	104	104	105	24	102	102	103	24
4/11	---	---	---	0	104	105	106	24	104	104	106	9	100	102	103	24	102	103	105	24
4/12	---	---	---	0	105	106	106	24	95	95	96	12	98	99	100	24	102	104	105	24
4/13	---	---	---	0	106	107	108	24	97	97	98	24	99	101	102	24	102	103	105	24
4/14	---	---	---	0	106	106	107	24	97	98	98	24	99	99	99	24	101	101	101	24
4/15	---	---	---	0	104	104	105	24	96	96	97	24	98	99	99	24	101	102	102	24
4/16	---	---	---	0	103	103	104	24	95	95	96	21	98	99	99	24	101	102	103	24
4/17	---	---	---	0	104	105	106	24	96	97	97	24	99	101	102	24	102	103	104	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>High</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>High</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</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>
4/4	104	105	106	24	102	102	103	24	111	112	112	24	102	103	103	24	111	112	112	24
4/5	103	105	106	24	102	102	102	24	112	112	112	24	102	102	102	24	107	107	109	24
4/6	103	105	106	24	102	102	102	24	111	111	112	24	102	102	103	24	107	107	108	24
4/7	103	105	106	24	102	102	103	24	112	112	112	24	102	103	103	24	109	109	110	24
4/8	104	106	108	24	103	103	103	23	112	112	112	24	105	106	107	23	110	110	111	23
4/9	103	104	105	24	102	102	103	13	111	112	113	24	107	108	108	24	113	113	114	24
4/10	103	104	105	24	102	102	102	24	111	112	112	24	107	107	108	24	113	113	113	24
4/11	103	106	108	24	101	101	101	24	111	112	113	24	107	108	110	24	110	111	111	24
4/12	102	105	107	24	102	103	104	24	111	111	112	24	108	108	109	24	111	112	112	24
4/13	102	105	107	24	103	104	104	24	111	112	113	24	110	111	113	24	109	110	111	24
4/14	99	100	101	24	104	104	105	24	111	112	113	24	111	111	111	24	110	111	111	24
4/15	99	100	101	24	103	104	104	24	110	111	113	24	109	109	110	24	110	111	114	24
4/16	100	101	102	24	101	102	103	24	110	110	111	24	107	108	108	24	110	111	111	24
4/17	101	104	105	24	100	100	100	24	110	110	111	24	107	108	108	24	114	115	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>#</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>High</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</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>
4/4	102	102	102	24	117	118	118	24	103	103	103	24	114	114	115	24	---	---	---	0
4/5	102	102	102	24	117	117	118	24	103	103	104	24	115	115	116	24	---	---	---	0
4/6	104	105	106	24	117	117	118	24	107	108	109	24	115	116	117	24	---	---	---	0
4/7	106	106	107	24	116	116	118	24	110	110	111	24	112	114	116	24	---	---	---	0
4/8	106	106	106	24	116	116	117	24	111	112	113	24	114	116	117	24	---	---	---	0
4/9	105	106	106	24	117	117	118	24	113	113	113	24	113	115	117	24	---	---	---	0
4/10	105	106	106	24	116	116	118	24	113	114	114	24	113	114	116	24	---	---	---	0
4/11	106	107	107	24	116	117	118	24	114	114	115	24	114	115	115	24	---	---	---	0
4/12	109	110	111	24	116	117	118	24	115	116	116	24	114	114	115	24	---	---	---	0
4/13	111	112	113	24	118	119	119	24	117	118	118	24	114	115	115	24	---	---	---	0
4/14	112	113	113	24	118	119	119	24	118	118	119	24	115	116	117	24	---	---	---	0
4/15	110	111	112	24	119	119	119	24	116	116	117	24	115	116	116	24	---	---	---	0
4/16	107	107	109	24	118	118	118	24	112	113	114	24	115	116	116	24	---	---	---	0
4/17	107	108	109	24	118	118	119	24	112	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>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
4/4	105	105	105	24	104	104	104	24	104	104	104	24	107	109	112	24	106	107	108	24
4/5	104	104	105	24	104	104	104	24	104	104	104	24	102	103	104	24	105	106	107	24
4/6	105	106	106	24	104	105	105	24	104	104	104	24	103	104	104	24	104	104	105	24
4/7	105	105	106	24	104	105	105	24	103	104	104	24	103	103	103	24	103	103	104	24
4/8	105	105	106	24	104	105	105	24	104	104	105	24	103	103	103	24	104	104	105	24
4/9	105	106	106	24	107	110	113	24	104	104	104	24	103	104	104	24	104	104	104	24
4/10	105	105	105	24	115	115	116	24	103	103	104	24	111	116	117	24	103	103	104	24
4/11	104	105	106	24	115	115	115	24	103	103	104	24	111	118	119	24	106	108	112	24
4/12	107	108	109	24	116	116	116	24	105	106	107	23	112	118	119	23	112	115	119	24
4/13	108	109	109	24	116	117	117	24	106	106	107	24	111	116	118	24	112	116	119	24
4/14	109	109	110	24	115	115	116	24	105	105	106	24	111	116	118	24	112	115	116	24
4/15	107	107	108	24	114	115	115	24	104	104	105	24	111	118	119	24	106	107	108	24
4/16	105	105	105	24	114	114	115	24	103	104	104	24	111	118	119	24	108	112	115	24
4/17	106	106	106	24	115	115	115	24	105	106	106	23	112	117	119	23	110	113	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>CamasWashougal</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
4/4	106	107	107	24	106	107	107	24	108	109	109	24	107	108	108	24	115	117	119	24
4/5	106	106	107	24	106	106	107	24	110	111	111	24	108	110	110	24	114	116	119	24
4/6	105	106	107	24	106	107	107	24	110	110	111	24	109	109	110	24	115	117	121	24
4/7	103	104	104	24	106	106	106	24	109	109	110	24	108	108	109	24	115	117	119	24
4/8	104	104	104	24	106	106	106	24	109	110	111	24	109	110	111	24	116	117	121	24
4/9	104	104	105	16	105	105	106	24	107	108	108	24	109	109	110	24	115	116	118	24
4/10	109	111	112	24	103	104	104	24	112	114	116	16	107	109	113	24	117	117	118	14
4/11	112	114	115	24	104	104	105	24	116	117	117	24	115	117	118	24	117	117	117	24
4/12	115	116	117	24	107	109	111	24	115	116	117	24	112	113	116	24	117	117	118	24
4/13	117	118	119	24	113	114	115	24	116	117	118	24	114	116	117	24	117	117	118	24
4/14	114	116	117	24	112	113	113	24	116	116	117	24	114	115	116	24	117	117	118	24
4/15	112	112	113	24	109	109	110	24	115	115	116	24	113	114	114	24	117	117	118	24
4/16	113	114	117	24	107	108	108	24	113	114	115	24	113	114	115	24	117	117	117	24
4/17	114	116	117	24	108	109	110	24	115	115	116	24	113	114	115	24	117	117	117	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/currentsmpsubmitdata.asp>

		COMBINED YEARLING CHINOOK										
Date		WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)
04/04/2008	*	405	4,657	32	17	810	0	93	1	---	422	106
04/05/2008	*	908	4,192	132	1	428	0	22	0	270	596	62
04/06/2008	*	741	4,709	522	1	785	0	25	0	---	285	65
04/07/2008	*	711	4,098	212	2	1,254	0	17	1	56,763	455	150
04/08/2008	*	311	6,740	468	10	1,404	20	23	7	---	605	151
04/09/2008	*	478	11,986	276	4	1,798	0	38	2	18,804	2,775	119
04/10/2008	*	422	4,808	462	5	1,857	62	34	3	---	5,356	160
04/11/2008	*	520	---	343	11	2,250	0	272	0	4,855	2,929	532
04/12/2008	*	432	---	176	59	1,786	0	1,329	2	---	2,531	1,228
04/13/2008	*	384	---	256	19	1,733	0	1,976	2	5,155	2,418	5,590
04/14/2008	*	1,023	17,472	670	15	1,464	0	1,326	4	---	1,678	17,371
04/15/2008	*	3,236	---	193	229	7,178	180	1,020	5	1,922	3,342	14,084
04/16/2008	*	3,538	---	559	82	8,792	63	4,498	10	---	3,842	13,262
04/17/2008	*	3,623	---	457	189	10,619	0	7,350	8	4,907	3,526	21,532
04/18/2008		---	---	---	---	---	---	---	---	---	---	---
<hr/>												
Total:		16,732	58,662	4,758	644	42,158	325	18,023	45	92,676	30,760	74,412
# Days:		14	8	14	14	14	14	14	14	7	14	14
Average:		1,195	7,333	340	46	3,011	23	1,287	3	13,239	2,197	5,315
YTD		33,534	63,149	6,977	713	43,558	325	18,325	45	92,756	31,905	87,320

		COMBINED SUBYEARLING CHINOOK										
Date		WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)
04/04/2008	*	0	0	0	1	0	0	0	20	---	0	548
04/05/2008	*	0	0	0	0	0	0	0	23	10	0	967
04/06/2008	*	0	0	0	2	0	0	0	14	---	0	411
04/07/2008	*	0	0	0	0	0	0	0	10	0	0	770
04/08/2008	*	0	0	0	0	0	0	0	12	---	0	673
04/09/2008	*	0	0	0	1	0	0	0	25	0	0	1,013
04/10/2008	*	0	0	0	0	0	0	0	13	---	0	993
04/11/2008	*	0	---	0	1	36	0	0	83	0	0	1,631
04/12/2008	*	0	---	0	4	0	0	0	28	---	0	241,894
04/13/2008	*	0	---	0	3	0	0	0	25	0	0	113,061
04/14/2008	*	0	0	0	0	0	0	0	19	---	0	39,550
04/15/2008	*	0	---	0	0	76	0	0	23	0	0	10,419
04/16/2008	*	0	---	0	0	15	0	0	14	---	0	5,914
04/17/2008	*	0	---	0	0	0	0	0	28	0	0	4,277
04/18/2008		---	---	---	---	---	---	---	---	---	---	---
<hr/>												
Total:		0	0	0	12	127	0	0	337	10	0	422,121
# Days:		14	8	14	14	14	14	14	14	7	14	14
Average:		0	0	0	1	9	0	0	24	1	0	30,152
YTD		0	0	0	28	150	0	0	337	10	0	1,299,704

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)
04/04/2008	*	0	0	0	0	18	0	0	0	---	0	37
04/05/2008	*	0	0	0	0	0	0	0	0	30	11	30
04/06/2008	*	0	0	0	0	0	0	0	0	---	0	27
04/07/2008	*	0	0	0	0	0	0	0	0	170	5	66
04/08/2008	*	0	0	0	0	18	0	0	0	---	0	119
04/09/2008	*	0	0	0	0	0	0	0	0	200	10	172
04/10/2008	*	0	0	0	0	18	0	0	1	---	17	264
04/11/2008	*	0	---	0	0	0	0	0	0	34	10	360
04/12/2008	*	0	---	0	0	0	0	0	0	---	7	629
04/13/2008	*	0	---	0	0	0	0	0	0	34	28	136
04/14/2008	*	0	0	0	0	0	0	0	1	---	7	392
04/15/2008	*	0	---	0	10	30	1	0	1	51	7	441
04/16/2008	*	0	---	0	0	15	0	0	1	---	7	388
04/17/2008	*	0	---	0	3	30	0	0	3	34	9	1,032
04/18/2008		---	---	---	---	---	---	---	---	---	---	---
<hr/>												
Total:		0	0	0	13	129	1	0	7	553	118	4,093
# Days:		14	8	14	14	14	14	14	14	7	14	14
Average:		0	0	0	1	9	0	0	1	79	8	292
YTD		0	0	0	15	171	1	0	7	563	130	4,576

		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)
04/04/2008	*	40	13	0	8	522	0	17	0	---	80	12
04/05/2008	*	73	34	1	12	428	0	8	0	70	16	3
04/06/2008	*	83	49	0	33	621	0	0	0	---	25	16
04/07/2008	*	93	20	0	11	598	0	0	1	100	30	150
04/08/2008	*	83	22	1	12	486	108	3	0	---	35	365
04/09/2008	*	68	45	0	11	590	0	12	1	0	30	311
04/10/2008	*	156	180	1	30	679	161	25	0	---	87	433
04/11/2008	*	144	---	6	7	1,053	0	21	0	69	79	172
04/12/2008	*	98	---	3	15	747	0	59	0	---	36	30
04/13/2008	*	70	---	15	16	748	0	18	0	34	71	136
04/14/2008	*	101	4,436	102	39	894	0	25	4	---	55	0
04/15/2008	*	91	---	159	155	1,405	549	28	7	104	75	136
04/16/2008	*	45	---	514	224	2,589	80	141	14	---	169	30
04/17/2008	*	79	---	111	135	15,779	0	471	16	760	662	147
04/18/2008		---	---	---	---	---	---	---	---	---	---	---
<hr/>												
Total:		1,224	4,799	913	708	27,139	898	828	43	1,137	1,450	1,941
# Days:		14	8	14	14	14	14	14	14	7	14	14
Average:		87	600	65	51	1,939	64	59	3	162	104	139
YTD		1,244	4,842	916	758	27,763	898	866	43	1,208	1,496	2,018

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)
04/04/2008	*	0	0	0	0	0	0	0	0	---	0	0
04/05/2008	*	0	0	0	0	0	0	0	0	0	0	2
04/06/2008	*	0	0	0	0	0	0	0	0	---	0	0
04/07/2008	*	0	0	0	0	0	0	0	0	0	0	0
04/08/2008	*	0	0	0	0	0	0	0	0	---	0	0
04/09/2008	*	0	0	0	0	73	0	0	0	0	0	0
04/10/2008	*	0	0	0	0	18	0	0	0	---	0	0
04/11/2008	*	0	---	0	0	36	0	0	0	0	0	0
04/12/2008	*	0	---	0	0	0	0	0	0	---	0	0
04/13/2008	*	0	---	0	1	91	0	0	0	0	0	0
04/14/2008	*	0	0	0	0	38	0	0	0	---	0	0
04/15/2008	*	0	---	0	0	121	1	0	0	17	0	0
04/16/2008	*	0	---	0	0	44	0	6	0	---	7	0
04/17/2008	*	0	---	0	1	60	0	0	0	0	0	0
04/18/2008		---	---	---	---	---	---	---	---	---	---	---
<hr/>												
Total:		0	0	0	2	481	1	6	0	17	7	2
# Days:		14	8	14	14	14	14	14	14	7	14	14
Average:		0	0	0	0	34	0	0	0	2	1	0
YTD		0	0	0	2	501	1	8	0	17	7	2

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

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

Definitions for Smolt Index Counts

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

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

Two Week Transportation Summary

Source: Fish Passage Center

Updated:

4/18/08 12:04 PM

		04/04/08 TO 04/18/08						
		Species						
Site	Data	CH0	CH1	CO	SO	ST	Grand Total	
LGR	Sum of NumberCollected	80	26,348	80	290	17,275	44,073	
	Sum of NumberBarged	54	13,042	51	144	4,043	17,334	
	Sum of NumberBypassed	25	13,925	38	146	13,472	27,606	
	Sum of Numbertrucked	0	0	0	0	0	0	
	Sum of SampleMorts	1	36	0	0	3	40	
	Sum of FacilityMorts	0	47	0	0	0	47	
	Sum of ResearchMorts	0	0	0	0	0	0	
	Sum of TotalProjectMorts	1	83	0	0	3	87	
LGS	Sum of NumberCollected		226	1	1	626	854	
	Sum of NumberBarged		0	0	0	0	0	
	Sum of NumberBypassed		226	1	1	625	853	
	Sum of Numbertrucked		0	0	0	0	0	
	Sum of SampleMorts		0	0	0	1	1	
	Sum of FacilityMorts		0	0	0	0	0	
	Sum of ResearchMorts		0	0	0	0	0	
	Sum of TotalProjectMorts		0	0	0	1	1	
LMN	Sum of NumberCollected		9,349		4	443	9,796	
	Sum of NumberBarged		0		0	0	0	
	Sum of NumberBypassed		9,342		4	443	9,789	
	Sum of Numbertrucked		0		0	0	0	
	Sum of SampleMorts		7		0	0	7	
	Sum of FacilityMorts		0		0	0	0	
	Sum of ResearchMorts		0		0	0	0	
	Sum of TotalProjectMorts		7		0	0	7	
MCN	Sum of NumberCollected	10	85,656	490	10	736	86,902	
	Sum of NumberBarged	0	0	0	0	0	0	
	Sum of NumberBypassed	10	85,614	490	10	735	86,859	
	Sum of Numbertrucked	0	0	0	0	0	0	
	Sum of SampleMorts	0	19	0	0	1	20	
	Sum of FacilityMorts	0	23	0	0	0	23	
	Sum of ResearchMorts	0	0	0	0	0	0	
	Sum of TotalProjectMorts	0	42	0	0	1	43	
Total Sum of NumberCollected		90	121,579	571	305	19,080	141,625	
Total Sum of NumberBarged		54	13,042	51	144	4,043	17,334	
Total Sum of NumberBypassed		35	109,107	529	161	15,275	125,107	
Total Sum of Numbertrucked		0	0	0	0	0	0	
Total Sum of SampleMorts		1	62	0	0	5	68	
Total Sum of FacilityMorts		0	70	0	0	0	70	
Total Sum of ResearchMorts		0	0	0	0	0	0	
Total Sum of TotalProjectMorts		1	132	0	0	5	138	

YTD Transportation Summary

Source: Fish Passage Center

Updated:

4/18/08 12:04 PM

TO: 04/18/08

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	100	27,688	120	310	17,865	46,083
	Sum of NumberBarged	54	13,042	51	144	4,043	17,334
	Sum of NumberBypassed	45	15,264	78	166	14,062	29,615
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	1	37	0	0	3	41
	Sum of FacilityMorts	0	47	0	0	0	47
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	1	84	0	0	3	88
LGS	Sum of NumberCollected		226	1	1	626	854
	Sum of NumberBarged		0	0	0	0	0
	Sum of NumberBypassed		226	1	1	625	853
	Sum of NumberTrucked		0	0	0	0	0
	Sum of SampleMorts		0	0	0	1	1
	Sum of FacilityMorts		0	0	0	0	0
	Sum of ResearchMorts		0	0	0	0	0
	Sum of TotalProjectMorts		0	0	0	1	1
LMN	Sum of NumberCollected		9,587		5	473	10,065
	Sum of NumberBarged		0		0	0	0
	Sum of NumberBypassed		9,580		5	471	10,056
	Sum of NumberTrucked		0		0	0	0
	Sum of SampleMorts		7		0	0	7
	Sum of FacilityMorts		0		0	2	2
	Sum of ResearchMorts		0		0	0	0
	Sum of TotalProjectMorts		7		0	2	9
MCN	Sum of NumberCollected	10	85,736	500	10	807	87,063
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	10	85,693	500	10	805	87,018
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	0	20	0	0	1	21
	Sum of FacilityMorts	0	23	0	0	1	24
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	0	43	0	0	2	45
Total Sum of NumberCollected		110	123,237	621	326	19,771	144,065
Total Sum of NumberBarged		54	13,042	51	144	4,043	17,334
Total Sum of NumberBypassed		55	110,763	579	182	15,963	127,542
Total Sum of NumberTrucked		0	0	0	0	0	0
Total Sum of SampleMorts		1	64	0	0	5	70
Total Sum of FacilityMorts		0	70	0	0	3	73
Total Sum of ResearchMorts		0	0	0	0	0	0
Total Sum of TotalProjectMorts		1	134	0	0	8	143

Cumulative Adult Passage at Mainstem Dams Through: 04/17

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	04/17	8959	12	4300	15	40682	155	0	0	0	0	0	0	0	0	0	0	0	0
TDA	04/17	5259	14	1035	13	21804	53	0	0	0	0	0	0	0	0	0	0	0	0
JDA	04/17	2993	8	580	10	14131	22	0	0	0	0	0	0	0	0	0	0	0	0
MCN	04/15	259	3	8	2	6229	13	0	0	0	0	0	0	0	0	0	0	0	0
IHR	04/16	128	1	1	1	4002	3	0	0	0	0	0	0	0	0	0	0	0	0
LMN	04/17	41	0	3	2	3178	1	0	0	0	0	0	0	0	0	0	0	0	0
LGS	04/17	15	0	3	0	2147	25	0	0	0	0	0	0	0	0	0	0	0	0
LGR	04/17	12	0	3	0	1092	0	0	0	0	0	0	0	0	0	0	0	0	0
PRD	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RIS	04/16	1	0	0	0	44	0	0	0	0	0	0	0	0	0	0	0	0	0
RRH	04/16	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
WEL	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WFA	04/16	228	0	514	2	-	-	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	1365	1515	1595	523
TDA	0	0	0	0	0	0	0	0	0	768	910	702	318
JDA	-1	0	0	0	0	0	0	0	0	1830	1423	2029	720
MCN	0	0	0	0	0	0	0	0	0	1446	1363	1174	595
IHR	0	0	0	0	0	0	0	0	0	2192	1920	1513	770
LMN	0	0	0	0	0	0	0	0	0	2478	1902	1569	943
LGS	0	0	0	0	0	0	0	0	0	1363	1801	1690	443
LGR	0	0	0	0	0	0	0	0	0	6030	9976	6755	1548
PRD	0	0	0	0	0	0	0	0	0	0	0	0	0
RIS	0	0	0	0	0	0	0	0	0	26	6	5	0
RRH	0	0	0	0	0	0	0	0	0	76	10	20	0
WEL	0	0	0	0	0	0	0	0	0	0	0	0	0
WFA	0	0	2	0	-	-	0	0	-	3297	4802	-	-

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: 04/18/08

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