



Fish Passage Center

Weekly Report #08 - 14

June 06, 2008

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Summary of Events:

Water Supply: Precipitation throughout the Columbia Basin has varied between 33% and 127% of average at individual sub-basins over May. Precipitation above The Dalles has been 82% of average over May. Over the entire water year, precipitation has generally been near or above average.

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

Location	Water Year 2008 May 1-26		Water Year 2008 October 1, 2007 to May 1-26 2008	
	Observed (inches)	% Average	Observed (inches)	% Average
Columbia Above Coulee	1.66	89	17.69	100
Snake River Above Ice Harbor	1.14	72	13.24	99
Columbia Above The Dalles	1.36	82	17.50	100
Kootenai	1.43	77	16.65	91
Clark Fork	1.25	73	12.29	103
Flathead	2.59	127	15.82	100
Pend Oreille/ Spokane	1.03	47	24.77	101
Central Washington	0.21	33	5.04	70
Snake River Plain	1.00	80	6.88	82
Salmon/Boise/ Payette	0.88	58	16.00	101
Clearwater	1.39	55	23.38	98
SW Washington Cascades/Cowlitz	2.14	67	57.18	92
Willamette Valley	1.53	52	54.45	103

Snowpack within the Columbia Basin is average or above for this time of year. Snowpack in the Columbia River for basins above the Snake River confluence is 146% of average, for Snake River Basins snowpack is 105% of average, and for lower Columbia Basins between McNary and Bonneville Dam average snowpack is 601% of average.

Table 2 displays the May Final and June Early runoff volume forecasts for multiple reservoirs. Water Supply Forecasts increased slightly between the May Final and June Early forecasts in Upper Columbia Basins and held steady or decreased slightly in Snake River Basins. The current forecast (June Early) at The Dalles between January and July is 99100 Kaf (92% of average).

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

Location	May Final		June Early	
	% Average (1971- 2000)	Probable Runoff Volume (Kaf)	% Average (1971- 2000)	Probable Runoff Volume (Kaf)
The Dalles (Jan- July)	91	97300	92	99100
Grand Coulee (Jan- July)	95	59800	97	60700
Libby Res. Inflow, MT (Jan-July)	92	5820	93	5840
Hungry Horse Res. Inflow, MT (Jan- July)	91	2030	98	2190
Lower Granite Res. Inflow (Apr- July)	101	21800	101	21800
Brownlee Res. Inflow (Apr-July)	77	4860	76	4820
Dworshak Res. Inflow (Apr-July)	111	2930	107	2830

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 been high over the last week. Flows at Lower Granite Dam have averaged 154.3 Kcfs over the last week and 91.8 Kcfs over the spring season, flows at Priest Rapids have averaged 233.2 Kcfs over the last week and 147.5 Kcfs over the spring season and flows at McNary have averaged 400.8 Kcfs over the last week and 259.7 Kcfs over the spring season.

Grand Coulee Reservoir is at 1270.9 feet (6-5-08) and has refilled 9.5 feet over the last week. Outflows at Grand Coulee have ranged between 160.5 and 215.0 Kcfs over the last week. Inflows last week have ranged between 252.7 Kcfs and 262.8 Kcfs.

The Libby Reservoir is currently at elevation 2429.3 feet (6-5-08) and refilled 6.8 feet last week. Outflows at Libby have increased over the last week in accordance with SOR 2008 FWS1, which has asked for specific sturgeon and bull trout flow augmentation operations. Inflows at Libby have ranged between 39.4 Kcfs to 46.4 Kcfs over the last week.

Hungry Horse is currently at an elevation of 3541.5 ft (6-5-08) and has refilled 7.8 feet last week. Outflows were 4.8-6.8 Kcfs last week; inflows ranged between 15.3 kcfs and 22.6 Kcfs last week.

Dworshak is currently at an elevation of 1571.4 feet (6-5-08) and refilled 17.4 feet last week. Outflows at Dworshak increased from 1.3 Kcfs to 8.8 Kcfs over the last week. The increase in outflow at Dworshak is due to a flood control operation based on remaining snow-covered area in the Dworshak Basin. Dworshak inflows have ranged between 24.0 and 30.7 Kcfs last week.

The Brownlee Reservoir is at an elevation of 2076.0 feet (June 5th, 2008), refilling 4.1 feet last week. Outflows at Brownlee Dam have been 21.5 to 25.5 Kcfs over the last week. Inflows at Brownlee Dam have been 27.2 to 28.3 Kcfs over the last week.

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

High runoff continues to result in flows in excess of hydraulic capacity throughout the lower Snake River. Dworshak Dam outflow was increased for flood control. Because of the increased outflow from this project, it was added to the spill priority list in order to manage excess spill system-wide. Presently, two units are out of service at Lower Granite Dam limiting powerhouse capacity to about 70 Kcfs at lower Granite Dam. Little Goose Dam has spilled between 36% and 45% of daily flow over the past week. At Lower Monumental Dam spill has been in excess of hydraulic capacity and has ranged from 32 to 63 Kcfs of daily average flow over the week, with higher hourly spill during nighttime hours. Spill at Ice Harbor Dam has exceeded the court ordered levels of 45 Kcfs daytime spill and gas cap nighttime spill alternating with 30% instantaneous spill and is spill in excess of hydraulic capacity and excess generation.

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%; 30%/30% vs 40%/40% test
The Dalles	40%/40%
Bonneville	100 Kcfs/100 Kcfs

Spill at McNary exceeded the Court ordered spill this past week. At John Day Dam spill has ranged between 30% of daily average flow and 40% of daily average flow. However, over the past two days spill has been less than the 40% that was planned for those

days. Spill at The Dalles Dam has exceeded or been a little less than the Court Order. Spill at Bonneville Dam has exceeded the Court Order, ranging between a daily average of 198 Kcfs and 207 Kcfs, and is spill in excess of hydraulic capacity. Total dissolved gas has exceeded the waiver limits at most sites due to spill in excess of hydraulic capacity and generation needs.

Gas bubble trauma (GBT) monitoring occurred at all the Snake River monitoring sites, Rock Island Dam in the Mid Columbia, and at McNary and Bonneville dams in the lower Columbia. At Lower Granite, Lower Monumental and McNary dams, signs of GBT have not been observed, while at Little Goose, Rock Island and Bonneville dams about 1% of fish were detected with minor signs of GBT.

Smolt Monitoring: Spring migrant indices decreased throughout the system over the past week. Subyearling Chinook numbers have continued to increase in the Snake River. The fall chinook smolt migration in the Snake River should reach peak numbers in the next few weeks.

At Lower Granite Dam the daily passage indices for yearling Chinook and steelhead continued to decrease after the freshet in the Snake River. Yearling Chinook indices dropped to about 6,000 per day this week compared to over 11,000 per day last week. Steelhead showed a similar drop with the average daily index falling to 18,000 per day this week compared to over 44,000 per day last week. Coho indices decreased to less than 600 fish per day. Sockeye numbers have also declined with the indices averaging less than 450 fish per day this week at Lower Granite Dam compared to over 1,000 per day last week. Subyearling Chinook passage indices have increased and have ranged from 13,000 to 35,000 per day over the past week.

Spring migrant indices were a mixed bag at Rock Island Dam over the past week. Indices for yearling Chinook averaged only 265 per day over the past week, while steelhead indices averaged about 301 per day, much lower than the average for last week. Coho indices averaged about 1,600 fish per day this week down from 2,000 per day last week. And sockeye indices dropped considerably; averaging 471 per day compared to about 2,600 per day last week. Relatively low numbers of subyearling Chinook were captured at the trap this past week.

In the lower River, McNary and John Day dams' passage indices for yearling Chinook, steelhead, Coho and sockeye smolts have all decreased this

past week. At Bonneville Dam the traveling screens have been pulled at Powerhouse 2 due to high debris loads and concomitantly high descaling in smolts so that indices are lower due to decreased turbine guidance. Nonetheless, sample numbers have remained surprisingly high with the screens removed. Tests have been conducted, reinstalling screens in Unit 11 to determine if the debris load has decreased. At this time debris remains high and the COE has made the decision to keep the units unscreened until the flows drop below 400 Kcfs, expected to occur some time next week.

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. On May 28th, Lyons Ferry Hatchery released 230,401 subyearling fall Chinook into Couse Creek, a tributary of the Snake River above Lower Granite Dam. In addition, Lyons Ferry hatchery also released 200,733 subyearling fall Chinook directly from the hatchery into the Snake River. There were no other scheduled releases of juvenile salmonids this week.

Approximately 700,000 subyearling fall Chinook are scheduled for release into this zone beginning next week. Of these, approximately 71.4% are scheduled for release into the Middle Fork of the Clearwater River from Nez Perce Tribal Hatchery. The remaining 28.6% will be released from acclimation facilities on the Selway River and South Fork of the Clearwater River. Two releases of spring Chinook parr are scheduled for this zone over the next two weeks. The first is a release of approximately 40,000 parr into Meadow Creek, a tributary of the Selway River. The second is a release of about 56,000 parr from the Lostine Acclimation Facility on the Wallowa River. Although they are being released this year, these parr are not expected to out-migrate until spring of 2009. There are no other scheduled releases of salmonid juveniles to this zone scheduled for the next two weeks.

Mid-Columbia Zone: The Mid-Columbia Zone encompasses the area of the Columbia River and its tributaries from McNary Dam to Chief Joseph Dam. On May 30th, 279,480 subyearling fall Chinook were released into the Umatilla River at river mile 48. In addition, approximately 300,000 subyearling fall Chinook were scheduled for release into the Umatilla River from Thornhollow Acclimation Facility on May 30th. However, prior to the release there

was a malfunction with the hydro rakes at the pond, resulting in a loss of flow to the facility. This lack of flow resulted in high mortality among the juvenile fall Chinook. As a result, only about 63,000 subyearling fall Chinook were released from the Thornhollow Acclimation Facility on May 30th. There were no other scheduled releases of juvenile salmonids this week. Approximately 7.95 million subyearling fall Chinook are scheduled for release into the Mid-Columbia River over the next two weeks. Of these, about 4.5 million will be released from Priest Rapids Hatchery and 3.45 million will be released from Ringold Hatchery. Approximately 81.5% of these subyearlings are unmarked. Wells Hatchery is scheduled to release about 242,400 subyearling summer Chinook into the Mid-Columbia on or around June 13th. There are no other releases of juvenile salmonids over the next two weeks.

Lower Columbia Zone: The Lower Columbia Zone is defined as the Columbia River and its tributaries from Bonneville Dam to McNary Dam. There were no scheduled releases of juvenile salmonids this week. Approximately 6.05 million subyearling fall Chinook are scheduled for release into this zone over the next two weeks. Of these, approximately 67% will be released from Klickitat Hatchery into the Klickitat River, beginning June 11th. Approximately 84% of these Klickitat Hatchery subyearlings are unmarked. On or around June 19th, the remaining 33% will be released into the Little White Salmon River, from the Little White Salmon NFH. There are no other scheduled releases of juvenile salmonids to this zone over the next two weeks.

Adult Fish Passage: The summer Chinook count began June 1st at Bonneville Dam. Daily passage numbers at Bonneville Dam have ranged between 979 and 2,058 adult summer Chinook in the last week. The 2008 summer Chinook count of 7,051 is about 2 times greater than the 2007 and 1.19 times greater than the 10 year average. The summer Chinook jack count of 1,397 is about 1.44 times greater than the 2007 count and 2.1 times greater than the 10 year average to date.

Adult spring Chinook counts at Bonneville Dam ended on May 31st. The total 2008 adult spring Chinook count of 125,545 was about 1.86 times larger than the 2007 adult spring Chinook count of 67,482 at Bonneville Dam but is about 82.8% of the ten year average. The 2008 spring Chinook jack count at Bonneville Dam of 17,552 increased about 1.04 times compared to the 2007 count and increased about 1.78

times compared to the ten year average. The 2007 spring Chinook migration arrived later than usual at Bonneville Dam. The 2008 spring Chinook migration arrived earlier than the 2007 migration, but arrived later than the 10 year average migration. As of June 4th at Willamette Falls Dam, the adult spring Chinook count of 6,560 was only 37.7% of the 2007 count of 17,384.

Spring Chinook are counted at Ice Harbor Dam through June 11th. A total of 47,172 spring Chinook adults have been observed at Ice harbor Dam as of June 4th. The 2008 Ice Harbor count about increased 1.86 times when compared to the 2007 count. Additionally, it is about 92.3% of the 10 year average count. The 2008 spring Chinook jack count of 6,775 had 55 more fish than the 2007 count and increased by 1.97 times when compared to the 10 year average. A total of 10,664 spring Chinook adults have been counted at Priest Rapids Dam as of June 4th. The 2008 Priest Rapids Dam adult spring Chinook count increased about 1.78 times compared to the 2007 count. However, it was only about 66.1% of the 10 year average count.

The 2008 Bonneville adult steelhead count was 4,457 fish, as of June 5th, which was 1.11 times greater than the 2007 count of 3,982 fish. The 2008 wild steelhead count at Bonneville Dam was 1,053 fish. At Willamette Falls Dam, the 2008 count for steelhead was 11,643, as of June 4th. This year's steelhead count has 173 more fish than the 2007 count of 11,470 at Willamette Falls Dam. As of June 5th at Bonneville Dam, the adult Shad count was 103,723 was only 9.6% of the 2007 count of 1,074,258 and only 12.1% the 10 year average count of 851,629.

The total steelhead count passing at Lower Granite Dam as of June 5th was 7,785. The 2008 count was about 73.5% of the 2007 count of 10,585. The 2008 Lower Granite adult steelhead count increased about 1.04 times when compared to the 10-year average count of 7,421. The 2008 wild steelhead count at Lower Granite Dam as of June 5th was 2,467. At Rock Island Dam, as of June 3rd, 286 adult steelhead had been counted. At Rocky Reach Dam 514 adult steelhead had been counted so far this season. The 2008 Rocky Reach Dam adult steelhead count increased 3 times when compared to the 2007 count and increased 3.86 times when compared to the 10 year average.

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
05/23/2008	177.9	0.0	178.7	2.3	193.9	19.8	181.9	6.9	190.1	20.3	201.1	65.7	186.7	46.1
05/24/2008	212.5	3.7	207.4	18.7	242.8	47.2	253.1	61.4	244.9	37.4	271.9	135.5	257.2	97.0
05/25/2008	205.0	0.0	210.0	18.8	240.3	59.1	234.2	41.1	235.5	33.1	252.2	121.9	232.8	98.2
05/26/2008	185.1	0.0	189.4	1.1	220.2	36.5	218.5	47.0	228.8	26.8	251.0	111.9	238.5	93.9
05/27/2008	189.7	0.0	198.2	11.6	228.4	75.5	227.7	57.4	231.9	27.3	254.8	116.3	239.0	75.9
05/28/2008	191.5	0.0	186.7	5.0	218.5	68.6	221.4	33.9	230.8	28.0	252.3	114.3	236.1	72.8
05/29/2008	183.9	1.4	184.6	8.0	213.0	66.1	212.2	24.7	221.2	23.7	238.3	103.0	222.4	61.1
05/30/2008	191.0	3.4	194.8	18.6	224.9	59.0	223.2	38.1	228.6	23.7	250.6	120.9	238.9	81.9
05/31/2008	178.8	0.3	179.6	0.0	209.2	52.9	207.2	24.1	216.8	22.3	235.5	99.7	227.2	65.6
06/01/2008	160.5	12.1	162.8	16.0	191.6	46.0	194.4	16.7	206.3	21.7	223.0	87.1	215.4	61.0
06/02/2008	193.1	10.1	188.2	35.0	213.4	54.2	204.0	24.5	205.7	26.5	220.7	83.7	209.0	51.2
06/03/2008	215.0	14.4	214.9	33.0	242.0	90.6	240.3	50.9	239.7	32.9	266.8	131.1	258.9	96.9
06/04/2008	207.3	27.4	208.8	30.0	241.4	89.6	240.3	52.7	240.8	35.2	268.7	137.3	258.4	102.4
06/05/2008	188.4	8.7	191.5	24.0	214.7	40.4	210.5	31.6	214.7	24.4	230.0	97.1	223.8	68.5

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
05/23/2008	1.6	0.1	31.9	21.5	154.4	85.0	152.3	62.2	154.9	43.7	163.1	96.2	163.1	96.2
05/24/2008	1.1	1.0	30.8	22.2	135.4	68.7	133.3	52.8	137.2	42.9	143.9	94.0	143.9	94.0
05/25/2008	1.1	1.0	28.6	18.3	130.1	59.7	124.8	39.4	124.5	26.7	130.7	78.2	130.7	78.2
05/26/2008	1.6	0.0	26.9	21.7	127.3	56.4	122.4	36.1	122.7	25.2	127.8	68.3	127.8	68.3
05/27/2008	1.6	0.0	25.9	19.6	130.6	60.4	124.8	36.7	125.5	25.3	133.3	66.2	133.3	66.2
05/28/2008	1.4	0.4	25.9	24.6	131.3	61.4	126.2	44.1	127.3	37.9	133.2	77.4	133.2	77.4
05/29/2008	1.2	0.7	27.6	25.3	144.6	74.9	140.3	53.4	142.1	40.7	147.1	95.3	147.1	95.3
05/30/2008	1.3	0.3	28.3	28.4	151.7	80.3	146.3	65.4	150.2	47.1	156.6	94.6	156.6	94.6
05/31/2008	1.4	0.1	28.2	27.3	152.9	82.3	149.0	58.0	154.2	39.1	159.9	91.5	159.9	91.5
06/01/2008	1.1	1.0	28.1	26.0	154.3	83.4	150.0	59.2	152.9	57.1	160.5	98.8	160.5	98.8
06/02/2008	8.0	0.2	27.8	24.4	158.9	87.6	155.0	65.4	160.8	47.4	165.6	97.3	165.6	97.3
06/03/2008	8.7	0.9	27.2	25.3	160.7	89.0	155.0	66.6	158.9	58.2	162.8	99.3	162.8	99.3
06/04/2008	8.8	1.3	28.0	25.2	152.2	81.9	148.9	66.6	156.1	62.8	162.1	99.6	162.1	99.6
06/05/2008	8.7	0.6	---	---	149.4	78.9	143.0	52.0	147.2	32.2	153.6	88.6	153.6	88.6

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		
05/23/2008	370.0	197.8	396.0	143.0	388.1	154.2	415.2	217.3	67.0	119.5
05/24/2008	377.3	209.1	388.5	154.6	384.9	164.0	399.2	192.7	67.8	127.3
05/25/2008	375.2	218.7	393.2	139.7	382.7	152.9	397.5	189.8	68.2	128.1
05/26/2008	374.4	213.0	363.4	117.4	355.2	142.3	387.4	178.4	68.0	129.7
05/27/2008	367.4	196.6	365.0	111.0	351.4	139.2	373.5	167.9	67.9	126.3
05/28/2008	390.9	222.0	394.9	137.8	386.6	154.8	401.1	195.2	68.2	126.3
05/29/2008	393.1	220.3	399.1	137.3	389.0	159.3	416.0	211.8	66.9	125.9
05/30/2008	398.2	224.4	413.9	129.9	396.7	169.4	410.8	202.9	67.5	129.0
05/31/2008	395.9	224.1	412.9	124.3	402.1	159.3	413.8	197.9	75.7	129.6
06/01/2008	392.1	220.2	394.2	126.6	389.3	158.3	417.5	200.0	77.0	129.1
06/02/2008	391.3	219.0	400.0	135.0	397.7	158.3	417.7	207.5	76.0	122.9
06/03/2008	400.1	230.7	417.8	150.9	398.9	176.4	417.5	202.7	74.7	128.7
06/04/2008	424.0	250.3	417.1	178.6	399.9	169.9	416.8	199.6	75.2	130.6
06/05/2008	403.9	228.6	410.8	135.0	404.4	154.5	417.7	201.2	76.4	128.7

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											
	05/27/08	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	06/03/08	Chinook + Steelhead	84	1	0	0.00%	0.00%	0	0	0	0
Little Goose Dam											
	05/27/08	Chinook + Steelhead	100	1	1	1.00%	1.00%	0	0	1	0
	06/03/08	Chinook + Steelhead	100	1	1	1.00%	0.00%	1	0	0	0
Lower Monumental Dam											
	06/02/08	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
McNary Dam											
	05/28/08	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	05/30/08	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	06/01/08	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
Bonneville Dam											
	05/27/08	Chinook + Steelhead	100	1	1	1.00%	0.00%	1	0	0	0
	05/31/08	Chinook + Steelhead	104	1	1	0.96%	0.00%	1	0	0	0
	06/03/08	Chinook + Steelhead	73	1	1	1.36%	0.00%	1	0	0	0
Rock Island Dam											
	05/29/08	Chinook + Steelhead	100	8	7	7.00%	0.00%	6	1	0	0
	06/02/08	Chinook + Steelhead	100	2	1	1.00%	0.00%	1	0	0	0
	06/05/08	Chinook + Steelhead	100	1	1	1.00%	0.00%	1	0	0	0

Hatchery Releases Last Two Weeks

Hatchery Release Summary									
From:	5/23/2008		to		06/05/08				
Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
Nez Perce Tribe	Lyons Ferry Hatchery	CH0	FA	2008	400,000	05-26-08	05-27-08	Pittsburg Landing Acclim Pond	Snake River
Nez Perce Tribe	Lyons Ferry Hatchery	CH0	FA	2008	500,000	05-26-08	05-26-08	Cpt John Acclim Pond Big Canyon (Clearwater River)	Snake River
Nez Perce Tribe	Lyons Ferry Hatchery	CH0	FA	2008	500,000	05-28-08	05-29-08		Clearwater River M F
Nez Perce Tribe Total					1,400,000				
Oregon Dept. of Fish and Wildlife	Irrigon Hatchery Complex	CH0	FA	2008	108,960	05-29-08	05-29-08	Grande Ronde River	Grande Ronde River
Oregon Dept. of Fish and Wildlife	Irrigon Hatchery Complex	CH0	FA	2008	194,310	05-29-08	05-29-08	Grande Ronde River	Grande Ronde River
Oregon Dept. of Fish and Wildlife	Umatilla Hatchery	CH0	FA	2008	279,480	05-26-08	05-26-08	Umatilla River	Umatilla River
Oregon Dept. of Fish and Wildlife Total					582,750				
Umatilla Tribe	Umatilla Hatchery	CH0	FA	2008	63,000	05-30-08	05-30-08	Thornhollow Acclim Pond	Umatilla River
Umatilla Tribe Total					63,000				
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	CH0	FA	2008	200,733	06-02-08	06-02-08	Lyons Ferry Hatchery	Snake River
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	CH0	FA	2008	230,401	05-28-08	05-28-08	Couse Creek	Snake River
Washington Dept. of Fish and Wildlife Total					431,134				
Grand Total					2,476,884				

Hatchery Releases Next Two Weeks

Hatchery Release Summary									
From:	6/6/2008		to		6/19/2008				
Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
Nez Perce Tribe	Lookingglass Hatchery	CH0	SP	2009	56,207	06-15-08	07-15-08	Lostine River	Wallowa River
Nez Perce Tribe	Nez Perce Tribal Hatchery	CH0	FA	2008	100,000	06-09-08	06-11-08	Cedar Flats Acclim.	Selway River
Nez Perce Tribe	Nez Perce Tribal Hatchery	CH0	FA	2008	100,000	06-09-08	06-11-08	Lukes Gulch Acclim. Nez Perce Tribal Hatchery	S Fk Clearwater River
Nez Perce Tribe	Nez Perce Tribal Hatchery	CH0	FA	2008	500,000	06-09-08	06-11-08		Clearwater River M F
Nez Perce Tribe	Nez Perce Tribal Hatchery	CH0	SP	2009	40,000	06-15-08	06-15-08	Meadow Creek - SELW	Selway River
Nez Perce Tribe Total					796,207				
U.S. Fish and Wildlife Service	Little White Salmon NFH	CH0	FA	2008	2,000,000	06-19-08	06-19-08	Little White Salmon River	Little White Salmon River
U.S. Fish and Wildlife Service Total					2,000,000				
Washington Dept. of Fish and Wildlife	Priest Rapids Hatchery	CH0	FA	2008	4,500,000	06-11-08	06-18-08	Priest Rapids Hatchery Ringold Springs	Mid-Columbia River
Washington Dept. of Fish and Wildlife	Ringold Springs Hatchery	CH0	FA	2008	3,450,000	06-15-08	06-15-08	Hatchery	Mid-Columbia River
Washington Dept. of Fish and Wildlife	Wells Hatchery	CH0	SU	2008	242,400	06-13-08	06-20-08	Wells Hatchery	Mid-Columbia River
Washington Dept. of Fish and Wildlife Total					8,192,400				
Yakama Tribe	Klickitat Hatchery	CH0	FA	2008	50,000	06-13-08	06-13-08	Klickitat River	Klickitat River
Yakama Tribe	Klickitat Hatchery	CH0	FA	2008	4,000,000	06-11-08	06-12-08	Klickitat River	Klickitat River
Yakama Tribe Total					4,050,000				
Grand Total					15,038,607				

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>				
5/23	98	98	99	24	127	128	129	23	112	112	112	24	109	109	109	23	108	108	108	24
5/24	98	98	98	24	128	128	130	22	112	112	112	24	111	113	116	22	107	108	108	24
5/25	97	97	98	24	128	128	130	23	112	112	113	24	109	110	110	23	110	112	113	24
5/26	98	99	99	24	128	129	130	23	113	113	114	24	109	111	111	23	109	109	110	24
5/27	99	99	100	24	129	129	131	23	114	114	115	24	110	111	112	23	109	110	111	24
5/28	99	100	100	24	129	130	131	23	115	115	115	24	111	112	112	23	111	112	112	24
5/29	102	102	103	24	128	129	130	24	115	115	116	24	112	113	117	24	111	112	112	24
5/30	101	102	102	24	128	129	130	24	115	116	117	24	114	116	121	24	111	112	112	24
5/31	101	101	102	24	128	129	130	22	116	116	116	24	112	113	113	22	115	119	120	24
6/1	101	101	102	24	128	129	130	23	116	117	117	24	115	118	124	23	113	114	117	24
6/2	103	104	104	24	128	129	129	23	116	117	117	24	118	121	124	23	115	118	124	24
6/3	104	105	106	24	129	130	130	23	118	118	119	24	117	119	124	23	119	120	123	24
6/4	104	105	105	24	129	130	132	21	119	119	119	24	121	124	134	21	117	119	119	24
6/5	104	104	105	24	129	129	130	21	119	119	119	24	116	117	118	21	121	126	129	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>				
5/23	108	108	114	24	107	108	108	24	110	111	112	24	109	109	109	24	109	109	110	24
5/24	111	114	116	24	107	108	108	24	113	115	116	24	109	110	112	24	114	115	116	24
5/25	111	114	115	24	107	108	108	24	116	119	125	24	112	112	113	24	114	115	116	24
5/26	109	109	113	24	110	111	112	24	115	117	128	24	115	116	119	24	117	118	122	24
5/27	110	111	112	24	108	109	109	24	122	125	128	24	114	116	121	24	116	118	122	24
5/28	110	111	111	24	110	110	111	24	120	124	127	24	120	121	123	24	121	122	123	24
5/29	111	112	114	24	110	110	110	24	120	122	126	24	119	120	122	24	119	120	123	24
5/30	112	113	114	24	110	112	114	24	118	120	123	24	118	119	120	24	119	120	121	24
5/31	115	118	119	24	111	112	113	24	118	120	127	24	116	118	119	24	117	118	120	24
6/1	113	115	116	24	115	116	117	24	119	121	125	24	117	117	118	24	117	118	119	24
6/2	116	117	119	24	111	112	113	24	119	124	133	24	117	118	118	24	118	119	119	24
6/3	116	117	117	24	115	117	119	23	127	130	135	23	118	121	125	24	120	122	126	24
6/4	116	116	117	24	116	116	117	24	128	132	136	24	125	126	130	24	125	126	130	24
6/5	116	118	120	24	114	115	117	24	118	119	120	24	126	128	130	24	125	127	130	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>				
5/23	108	108	108	24	111	111	112	24	107	107	108	24	112	114	117	24	110	110	111	24
5/24	113	115	116	24	116	118	121	24	106	107	110	24	123	125	126	24	119	124	126	24
5/25	113	114	115	24	116	118	119	24	108	111	112	24	122	125	126	24	120	123	125	24
5/26	117	118	120	24	118	120	122	24	112	113	115	24	121	124	126	24	124	125	126	24
5/27	115	116	117	24	117	118	119	24	113	115	117	24	122	124	126	24	120	123	124	24
5/28	119	120	121	24	121	122	122	24	114	115	117	24	122	124	126	21	123	125	126	24
5/29	118	119	120	24	120	121	122	24	115	116	116	24	120	120	124	12	119	120	121	24
5/30	118	118	119	24	119	120	121	24	115	116	117	24	124	125	128	24	120	122	124	24
5/31	116	117	117	24	118	118	119	24	115	117	119	24	121	123	127	24	122	125	126	24
6/1	116	117	118	24	118	119	120	24	115	115	115	24	118	120	123	24	118	120	121	24
6/2	116	117	118	24	119	120	121	24	114	115	116	24	119	123	127	24	116	117	118	24
6/3	118	118	120	24	120	121	123	24	114	115	115	24	125	127	128	24	124	126	127	24
6/4	122	122	123	24	124	125	125	24	114	114	115	24	125	127	128	24	122	123	125	24
6/5	125	127	127	24	125	125	125	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>24 h</u>		<u>12 h</u>		#	<u>24 h</u>		<u>12 h</u>		#	<u>24 h</u>		<u>12 h</u>		#
	Avg	Avg	High	hr		Avg	Avg	High	hr		Avg	Avg	High	hr		Avg	Avg	High	hr	
5/23	114	115	116	24	107	107	107	24	102	103	103	24	103	103	104	24	107	108	108	24
5/24	121	124	125	24	109	111	112	24	109	113	114	24	103	103	104	24	106	106	107	24
5/25	123	124	124	24	115	117	117	24	113	114	114	24	103	104	104	24	105	106	106	24
5/26	125	125	126	24	116	117	117	24	105	107	113	24	103	104	104	24	105	106	106	24
5/27	122	123	124	24	116	117	117	24	103	104	105	24	103	104	105	24	105	105	106	24
5/28	124	125	125	24	115	116	116	24	105	107	111	24	103	104	105	24	105	105	105	24
5/29	121	121	122	24	115	115	116	24	106	108	112	24	103	103	104	24	105	105	105	24
5/30	121	123	124	24	113	114	115	24	110	112	113	24	103	104	104	24	105	106	106	24
5/31	123	124	124	24	115	116	117	24	106	107	108	24	104	105	106	24	105	106	107	24
6/1	120	121	122	24	115	116	116	24	110	113	115	24	130	135	136	24	105	105	106	24
6/2	118	119	120	24	112	113	114	24	101	104	113	24	139	140	140	24	105	106	106	24
6/3	124	125	125	24	112	114	115	24	103	108	115	24	121	138	139	24	105	105	106	24
6/4	123	123	124	24	116	116	117	24	104	109	114	24	103	103	104	24	105	105	105	24
6/5	---	---	---	0	115	116	116	24	102	104	110	24	103	103	104	24	105	106	106	24

Total Dissolved Gas Saturation Data at Snake River Sites

Date	<u>Clrwtr-Lewiston</u>				<u>Lower Granite</u>				<u>L. Granite Tlwr</u>				<u>Little Goose</u>				<u>L. Goose Tlwr</u>			
	<u>24 h</u>		<u>12 h</u>		#	<u>24 h</u>		<u>12 h</u>		#	<u>24 h</u>		<u>12 h</u>		#	<u>24 h</u>		<u>12 h</u>		#
	Avg	Avg	High	hr		Avg	Avg	High	hr		Avg	Avg	High	hr		Avg	Avg	High	hr	
5/23	103	103	103	24	108	108	109	24	128	130	131	24	126	126	127	24	123	124	124	24
5/24	102	103	103	24	107	107	107	24	124	125	126	24	125	125	126	24	121	123	125	24
5/25	103	104	105	24	105	106	106	24	121	121	122	24	122	123	123	24	118	119	122	24
5/26	103	103	104	24	106	106	106	24	121	121	121	24	121	122	122	24	117	118	118	24
5/27	103	103	104	24	105	105	106	24	122	122	123	24	119	120	120	24	117	118	118	24
5/28	103	103	103	24	105	105	105	24	122	122	124	24	119	119	119	24	120	123	139	24
5/29	102	103	103	24	105	105	105	24	125	126	128	24	118	118	118	24	120	122	124	24
5/30	103	103	103	24	104	104	104	24	128	128	128	24	117	118	118	24	123	124	125	24
5/31	103	104	105	24	105	106	106	24	128	128	130	24	120	121	121	24	122	122	124	24
6/1	103	103	103	24	106	106	106	24	127	127	128	24	121	121	122	24	122	122	122	24
6/2	103	103	103	24	105	106	106	24	127	128	131	24	120	121	121	24	123	123	124	24
6/3	102	103	104	24	106	106	106	24	127	127	128	24	120	121	122	24	123	124	125	24
6/4	102	102	103	24	105	105	106	24	124	126	127	24	120	121	122	24	123	125	125	24
6/5	102	103	104	24	105	105	105	24	124	125	127	24	119	120	120	24	121	123	143	24

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

Date	<u>Lower Mon.</u>				<u>L. Mon. Tlwr</u>				<u>Ice Harbor</u>				<u>Ice Harbor Tlwr</u>				<u>McNary-Oregon</u>			
	<u>24 h</u>		<u>12 h</u>		#	<u>24 h</u>		<u>12 h</u>		#	<u>24 h</u>		<u>12 h</u>		#	<u>24 h</u>		<u>12 h</u>		#
	Avg	Avg	High	hr		Avg	Avg	High	hr		Avg	Avg	High	hr		Avg	Avg	High	hr	
5/23	129	130	131	24	121	122	123	24	124	125	125	24	123	124	126	24	---	---	---	0
5/24	125	126	126	24	118	121	125	24	123	123	124	24	122	123	124	24	---	---	---	0
5/25	123	124	125	24	116	117	120	24	121	122	122	19	120	121	121	24	---	---	---	0
5/26	121	121	122	24	116	116	117	24	120	120	121	18	119	120	121	24	---	---	---	0
5/27	119	119	119	24	115	115	118	24	---	---	---	0	120	120	121	24	---	---	---	0
5/28	119	119	119	24	121	122	123	24	118	118	119	24	121	122	124	24	---	---	---	0
5/29	120	121	122	24	122	123	124	24	118	118	119	24	122	123	124	24	---	---	---	0
5/30	120	120	121	24	120	122	124	24	117	118	118	24	122	123	124	24	---	---	---	0
5/31	124	125	127	24	119	119	122	24	119	119	119	24	122	122	122	24	---	---	---	0
6/1	123	123	124	24	121	124	126	24	120	120	120	24	123	123	124	24	---	---	---	0
6/2	122	122	123	24	121	121	124	24	119	119	120	24	122	123	124	24	---	---	---	0
6/3	124	125	126	24	121	123	125	24	119	120	121	24	123	124	125	24	---	---	---	0
6/4	123	124	126	24	122	125	125	24	120	120	121	24	123	124	124	24	---	---	---	0
6/5	123	124	125	24	120	121	122	24	120	120	121	24	121	122	122	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>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>	<u>Avg</u>	<u>AVG</u>	<u>High</u>	<u>hr</u>
5/23	114	115	116	24	121	121	121	24	108	108	108	24	119	120	120	24	110	111	112	24
5/24	110	111	112	24	121	123	123	24	110	111	111	24	120	120	123	24	113	115	119	24
5/25	110	111	113	24	121	122	123	24	113	114	115	24	119	120	120	24	113	114	115	24
5/26	116	118	119	24	121	122	123	24	116	116	117	24	118	119	119	24	114	115	115	24
5/27	117	117	118	24	120	121	122	24	117	117	118	24	118	119	120	24	114	115	116	24
5/28	118	118	118	24	122	122	123	24	119	119	119	24	119	120	121	24	116	116	117	24
5/29	115	116	116	24	121	122	122	24	116	117	118	24	119	119	120	24	113	114	114	24
5/30	114	115	115	24	122	122	123	24	114	114	114	24	119	119	120	24	113	114	115	24
5/31	114	115	115	24	123	123	123	24	114	114	114	24	119	119	120	24	113	114	114	24
6/1	116	116	116	24	122	122	122	24	113	114	114	24	119	119	119	24	112	113	113	24
6/2	114	114	115	24	122	122	122	24	114	114	114	24	119	119	119	24	113	114	114	24
6/3	113	113	114	24	122	122	123	24	113	114	114	24	120	121	125	24	114	115	118	24
6/4	112	112	113	24	123	123	123	24	110	110	111	24	122	124	126	24	113	115	117	24
6/5	114	115	115	24	122	123	123	24	110	110	111	24	119	120	120	24	112	113	114	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>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>	<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>
5/23	117	118	118	24	112	113	113	24	---	---	---	0	118	119	120	24	124	124	125	24
5/24	119	120	121	24	115	116	118	24	---	---	---	0	118	119	119	23	123	123	124	24
5/25	118	119	119	24	116	117	118	24	---	---	---	0	118	119	119	22	123	123	123	24
5/26	118	119	119	24	115	115	116	24	---	---	---	0	118	118	119	24	122	123	123	24
5/27	118	119	120	24	115	115	116	24	---	---	---	0	117	118	118	24	122	122	123	24
5/28	119	120	120	24	115	115	116	24	---	---	---	0	118	118	119	24	123	124	125	24
5/29	118	119	120	24	114	114	115	24	---	---	---	0	119	120	120	24	124	125	126	24
5/30	119	119	121	24	114	115	118	24	---	---	---	0	119	119	120	24	124	124	125	24
5/31	118	118	119	24	116	117	118	24	---	---	---	0	120	121	122	24	124	124	125	24
6/1	117	118	118	24	114	114	115	24	---	---	---	0	118	118	118	24	123	123	124	24
6/2	117	118	119	24	114	114	115	24	---	---	---	0	119	120	121	24	124	125	128	24
6/3	120	122	125	24	117	119	122	24	---	---	---	0	119	120	122	24	124	124	125	24
6/4	118	119	121	24	115	116	120	24	---	---	---	0	119	120	121	24	124	124	124	24
6/5	117	118	119	24	115	116	117	24	---	---	---	0	118	119	119	24	124	124	125	24

Two-Week Summary of Passage Indices

Source: Fish Passage Center

Updated: 6/6/2008 9:12

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/currentsmppsubmitdata.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)	
05/23/2008	*	---	0	---	---	19,165	73,814	40,440	959	78,940	62,173	12,707
05/24/2008	*	---	0	---	---	9,218	63,968	26,297	1,017	---	77,209	8,848
05/25/2008	*	---	0	---	---	13,405	31,712	22,899	1,419	83,181	47,438	20,704
05/26/2008	*	---	0	---	---	9,496	31,592	11,435	1,355	---	68,964	22,369
05/27/2008	*	---	4	---	---	11,361	27,244	14,528	1,080	46,463	64,706	26,325
05/28/2008	*	---	8	---	---	8,786	57,307	14,230	343	---	50,939	23,907
05/29/2008	*	---	0	---	---	11,185	24,665	10,006	806	25,943	94,716	13,000
05/30/2008	*	---	0	---	---	8,740	27,348	18,619	437	---	71,801	10,604
05/31/2008	*	---	0	---	---	7,427	22,373	10,575	352	23,362	49,788	15,548
06/01/2008	*	---	0	---	---	7,364	29,923	11,562	292	---	26,226	5,959
06/02/2008	*	---	0	---	---	3,932	23,159	9,596	233	12,851	22,624	2,911
06/03/2008	*	---	0	---	---	5,871	23,781	12,768	169	---	14,539	2,609
06/04/2008	*	---	0	---	---	4,248	17,849	11,137	214	11,991	12,128	2,414
06/05/2008	*	---	---	---	---	2,952	10,556	11,361	161	---	10,136	1,749
06/06/2008		---	---	---	---	---	---	---	---	---	---	---
Total:		0	12	0	0	123,150	465,291	225,453	8,837	282,731	673,387	169,654
# Days:		0	13	0	0	14	14	14	14	7	14	14
Average:		0	1	0	0	8,796	33,235	16,104	631	40,390	48,099	12,118
YTD		56,037	78,589	19,672	13,632	3,538,263	2,672,708	1,940,205	20,587	1,299,851	1,599,225	1,259,203

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)	
05/23/2008	*	---	0	---	---	8,711	3,742	909	256	9,505	800	4,031
05/24/2008	*	---	0	---	---	8,779	5,650	2,431	150	---	2,280	2,794
05/25/2008	*	---	0	---	---	5,284	6,229	1,139	35	9,669	2,976	4,025
05/26/2008	*	---	0	---	---	4,610	3,656	1,263	23	---	2,856	1,697
05/27/2008	*	---	0	---	---	4,115	4,275	1,326	10	29,250	3,432	3,364
05/28/2008	*	---	0	---	---	3,205	8,854	1,636	11	---	8,120	3,102
05/29/2008	*	---	0	---	---	6,770	4,349	792	49	28,925	11,520	2,854
05/30/2008	*	---	0	---	---	8,532	2,765	545	39	---	24,737	3,805
05/31/2008	*	---	0	---	---	13,347	4,431	414	56	6,908	20,488	4,963
06/01/2008	*	---	0	---	---	13,754	5,121	623	41	---	13,738	5,077
06/02/2008	*	---	0	---	---	33,090	6,845	298	28	5,342	10,199	4,076
06/03/2008	*	---	0	---	---	32,514	24,148	2,016	36	---	7,807	4,388
06/04/2008	*	---	0	---	---	34,975	42,282	14,478	32	5,934	6,933	4,268
06/05/2008	*	---	---	---	---	20,773	33,336	14,970	18	---	6,915	4,134
06/06/2008		---	---	---	---	---	---	---	---	---	---	---
Total:		0	0	0	0	198,459	155,683	42,840	784	95,533	122,801	52,578
# Days:		0	13	0	0	14	14	14	14	7	14	14
Average:		0	0	0	0	14,176	11,120	3,060	56	13,648	8,772	3,756
YTD		0	0	2	119	230,913	164,457	44,431	2,292	106,414	124,063	2,065,993

Two-Week Summary of Passage Indices

COMBINED COHO											
Date	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)
05/23/2008 *	---	0	---	---	747	16,083	3,635	1,998	20,290	12,769	12,681
05/24/2008 *	---	0	---	---	1,097	12,355	885	2,346	---	22,994	9,413
05/25/2008 *	---	0	---	---	1,761	5,043	1,518	2,265	23,389	15,423	12,105
05/26/2008 *	---	0	---	---	1,475	3,948	632	2,805	---	15,147	7,396
05/27/2008 *	---	0	---	---	1,163	3,349	1,074	2,087	14,521	14,478	6,435
05/28/2008 *	---	0	---	---	943	7,862	996	872	---	13,885	9,481
05/29/2008 *	---	0	---	---	785	1,985	424	1,038	28,128	27,328	5,708
05/30/2008 *	---	0	---	---	728	3,265	1,420	1,469	---	17,137	6,071
05/31/2008 *	---	0	---	---	753	2,385	1,042	2,143	6,364	15,161	4,909
06/01/2008 *	---	0	---	---	975	1,730	527	1,431	---	11,031	2,865
06/02/2008 *	---	0	---	---	437	2,920	353	2,237	3,848	7,719	1,746
06/03/2008 *	---	0	---	---	790	2,343	960	1,353	---	4,977	2,109
06/04/2008 *	---	0	---	---	111	1,702	343	1,270	4,709	4,544	1,273
06/05/2008 *	---	---	---	---	219	427	401	1,164	---	4,597	1,293
06/06/2008	---	---	---	---	---	---	---	---	---	---	---
Total:	0	0	0	0	11,984	65,397	14,210	24,478	101,249	187,190	83,485
# Days:	0	13	0	0	14	14	14	14	7	14	14
Average:	0	0	0	0	856	4,671	1,015	1,748	14,464	13,371	5,963
YTD	0	0	0	326	108,297	164,058	141,912	47,027	147,782	325,380	340,975

COMBINED STEELHEAD											
Date	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)
05/23/2008 *	---	0	---	---	45,797	90,888	49,073	1,041	36,159	59,811	5,909
05/24/2008 *	---	0	---	---	15,584	41,303	31,599	1,010	---	56,669	6,486
05/25/2008 *	---	0	---	---	26,126	22,003	13,917	1,006	30,730	34,164	8,538
05/26/2008 *	---	0	---	---	26,367	26,177	10,801	553	---	30,570	10,518
05/27/2008 *	---	107	---	---	32,742	28,432	11,180	438	7,871	25,508	6,143
05/28/2008 *	---	128	---	---	21,851	71,597	14,941	285	---	15,051	5,033
05/29/2008 *	---	10	---	---	19,427	18,008	9,146	329	7,635	21,378	4,122
05/30/2008 *	---	7	---	---	30,174	25,516	15,822	278	---	25,803	2,590
05/31/2008 *	---	0	---	---	23,143	27,243	10,138	374	3,543	20,490	3,775
06/01/2008 *	---	0	---	---	25,558	34,662	10,653	429	---	17,901	1,542
06/02/2008 *	---	0	---	---	14,962	37,970	8,766	302	4,026	13,116	2,114
06/03/2008 *	---	0	---	---	16,934	27,756	12,416	216	---	10,343	1,279
06/04/2008 *	---	0	---	---	9,305	17,403	10,451	245	3,468	11,357	991
06/05/2008 *	---	---	---	---	6,779	13,850	8,688	266	---	8,329	1,340
06/06/2008	---	---	---	---	---	---	---	---	---	---	---
Total:	0	252	0	0	314,749	482,808	217,591	6,772	93,432	350,490	60,380
# Days:	0	13	0	0	14	14	14	14	7	14	14
Average:	0	19	0	0	22,482	34,486	15,542	484	13,347	25,035	4,313
YTD	4,565	21,929	5,891	10,708	3,375,665	3,589,813	1,510,265	20,330	496,607	1,093,737	437,977

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)	
05/23/2008	*	---	0	---	---	1,742	4,488	3,181	2,833	12,937	10,184	3,534
05/24/2008	*	---	0	---	---	1,975	1,412	1,547	1,605	---	12,876	3,892
05/25/2008	*	---	0	---	---	685	1,780	1,012	4,323	68,960	14,086	6,342
05/26/2008	*	---	0	---	---	369	2,778	884	5,870	---	21,561	4,668
05/27/2008	*	---	0	---	---	447	1,211	1,390	2,327	17,175	26,737	12,285
05/28/2008	*	---	0	---	---	848	1,603	783	797	---	17,192	25,897
05/29/2008	*	---	0	---	---	589	687	863	870	21,051	37,418	11,098
05/30/2008	*	---	0	---	---	728	1,760	1,492	856	---	41,027	11,980
05/31/2008	*	---	0	---	---	646	598	454	852	8,874	27,866	16,549
06/01/2008	*	---	0	---	---	541	2,145	575	456	---	16,235	9,425
06/02/2008	*	---	0	---	---	218	1,924	651	520	6,551	10,046	4,867
06/03/2008	*	---	0	---	---	677	1,083	1,184	306	---	6,441	2,386
06/04/2008	*	---	0	---	---	223	183	1,028	196	4,568	5,928	2,014
06/05/2008	*	---	---	---	---	109	940	0	114	---	5,422	1,781
06/06/2008		---	---	---	---	---	---	---	---	---	---	---
Total:		0	0	0	0	9,797	22,592	15,044	21,925	140,116	253,019	116,718
# Days:		0	13	0	0	14	14	14	14	7	14	14
Average:		0	0	0	0	700	1,614	1,075	1,566	20,017	18,073	8,337
YTD		37	0	0	111	26,493	32,658	43,182	36,928	199,305	294,198	127,229

* 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:

6/6/08 9:15 AM

		05/23/08	TO	06/06/08			
Site	Data	Species					Grand Total
		CH0	CH1	CO	SO	ST	
LGR	Sum of NumberCollected	91,550	59,317	5,900	4,600	151,617	312,984
	Sum of NumberBarged	81,492	55,103	5,784	4,485	137,232	284,096
	Sum of NumberBypassed	146	2,985	12	52	11,668	14,863
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of SampleMorts	32	15	1	2	6	56
	Sum of FacilityMorts	473	147	3	11	67	701
	Sum of ResearchMorts	0	1	0	0	0	1
	Sum of TotalProjectMorts	505	163	4	13	73	758
LGS	Sum of NumberCollected	91,521	282,372	39,152	13,761	291,648	718,454
	Sum of NumberBarged	71,820	273,271	38,861	13,149	282,518	679,619
	Sum of NumberBypassed	118	645	39	46	778	1,626
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of SampleMorts	4	24	0	1	4	33
	Sum of FacilityMorts	79	2,305	2	15	249	2,650
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	83	2,329	2	16	253	2,683
LMN	Sum of NumberCollected	29,109	158,239	9,996	10,455	151,054	358,853
	Sum of NumberBarged	17,309	123,126	7,323	8,379	110,590	266,727
	Sum of NumberBypassed	593	26,452	2,372	2,076	33,899	65,392
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of SampleMorts	0	6	0	0	5	11
	Sum of FacilityMorts	29	161	1	0	63	254
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	29	167	1	0	68	265
MCN	Sum of NumberCollected	41,353	121,638	43,401	59,400	40,093	305,885
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	41,281	121,272	43,362	59,326	40,038	305,279
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of SampleMorts	10	24	2	7	4	47
	Sum of FacilityMorts	55	325	34	62	46	522
	Sum of ResearchMorts	7	17	3	5	5	37
	Sum of TotalProjectMorts	72	366	39	74	55	606
Total Sum of NumberCollected		253,533	621,566	98,449	88,216	634,412	1,696,176
Total Sum of NumberBarged		170,621	451,500	51,968	26,013	530,340	1,230,442
Total Sum of NumberBypassed		42,138	151,354	45,785	61,500	86,383	387,160
Total Sum of Numbertrucked		0	0	0	0	0	0
Total Sum of SampleMorts		46	69	3	10	19	147
Total Sum of FacilityMorts		636	2,938	40	88	425	4,127
Total Sum of ResearchMorts		7	18	3	5	5	38
Total Sum of TotalProjectMorts		689	3,025	46	103	449	4,312

YTD Transportation Summary

Source: Fish Passage Center

Updated:

6/6/08 9:15 AM

TO: 06/06/08

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	105,093	2,370,640	68,404	12,764	2,126,110	4,683,011
	Sum of NumberBarged	93,410	1,938,293	66,411	12,256	1,747,122	3,857,492
	Sum of NumberBypassed	1,726	425,557	1,848	424	375,521	805,076
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	34	146	2	2	42	226
	Sum of FacilityMorts	516	2,789	43	32	781	4,161
	Sum of ResearchMorts	0	2,789	0	0	0	2,789
	Sum of TotalProjectMorts	550	5,724	45	34	823	7,176
LGS	Sum of NumberCollected	95,804	1,660,273	94,478	19,182	2,239,555	4,109,292
	Sum of NumberBarged	75,819	1,261,937	91,460	18,548	1,512,390	2,960,154
	Sum of NumberBypassed	401	389,245	2,765	67	718,654	1,111,132
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	4	36	1	1	10	52
	Sum of FacilityMorts	80	2,928	2	16	402	3,428
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	84	2,964	3	17	412	3,480
LMN	Sum of NumberCollected	30,005	1,193,224	82,594	26,354	930,355	2,262,532
	Sum of NumberBarged	17,309	244,780	8,343	8,379	199,042	477,853
	Sum of NumberBypassed	1,489	940,181	73,949	17,975	724,635	1,758,229
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	0	29	0	0	13	42
	Sum of FacilityMorts	29	731	2	0	168	930
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	29	760	2	0	181	972
MCN	Sum of NumberCollected	46,561	723,827	68,673	91,310	271,971	1,202,342
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	46,487	723,161	68,633	91,223	271,739	1,201,243
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	10	80	2	8	19	119
	Sum of FacilityMorts	56	522	35	68	191	872
	Sum of ResearchMorts	8	58	3	5	20	94
	Sum of TotalProjectMorts	74	660	40	81	230	1,085
Total Sum of NumberCollected		277,463	5,947,964	314,149	149,610	5,567,991	12,257,177
Total Sum of NumberBarged		186,538	3,445,010	166,214	39,183	3,458,554	7,295,499
Total Sum of NumberBypassed		50,103	2,478,144	147,195	109,689	2,090,549	4,875,680
Total Sum of NumberTrucked		0	0	0	0	0	0
Total Sum of SampleMorts		48	291	5	11	84	439
Total Sum of FacilityMorts		681	6,970	82	116	1,542	9,391
Total Sum of ResearchMorts		8	2,847	3	5	20	2,883
Total Sum of TotalProjectMorts		737	10,108	90	132	1,646	12,713

Cumulative Adult Passage at Mainstem Dams Through: 06/05

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	06/05	125545	17552	67482	16860	151523	9831	7051	1397	3534	966	5882	663	0	0	0	0	0	0
TDA	06/04	95440	15801	53524	15567	106828	7522	803	197	0	0	934	84	0	0	0	0	0	0
JDA	06/05	81771	14925	43379	13663	89086	6102	0	0	0	0	0	0	0	0	0	0	0	0
MCN	06/05	64780	11482	37229	11751	79813	5948	0	0	0	0	0	0	0	0	0	0	0	0
IHR	06/04	47172	6775	25361	6720	51104	3435	0	0	0	0	0	0	0	0	0	0	0	0
LMN	06/05	46942	5796	24823	6429	48096	3101	0	0	0	0	0	0	0	0	0	0	0	0
LGS	06/05	41996	6052	20691	6233	44383	3012	0	0	0	0	0	0	0	0	0	0	0	0
LGR	06/05	38249	8000	18680	7611	43568	3257	0	0	0	0	0	0	0	0	0	0	0	0
PRD	06/04	10664	523	5984	390	16112	490	0	0	0	0	0	0	0	0	0	0	0	0
RIS	06/03	9521	762	4592	1483	12322	738	0	0	0	0	0	0	0	0	0	0	0	0
RRH	06/03	3168	237	2011	631	4663	277	0	0	0	0	0	0	0	0	0	0	0	0
WEL	06/04	1750	215	946	436	2519	139	0	0	0	0	0	0	0	0	0	0	0	0
WFA	06/04	6560	100	17384	166	-	-	0	0	0	0	-	-	0	0	0	0	-	-

DAM	Coho						Sockeye			Steelhead			
	2008		2007		10-Yr Avg.		2008	2007	10-Yr Avg.	2008	2007	10-Yr Avg.	Wild 2008
	Adult	Jack	Adult	Jack	Adult	Jack							
BON	0	0	0	0	0	0	505	241	363	4457	3982	4837	1053
TDA	0	0	0	0	0	0	58	106	110	1530	1366	1421	555
JDA	-1	0	1	0	0	0	61	92	111	3475	2344	3373	1484
MCN	0	0	0	0	0	0	9	39	26	2551	2016	1870	1105
IHR	0	0	0	0	0	0	0	0	0	3192	2301	1926	1177
LMN	0	0	0	0	0	0	0	0	0	4038	2358	1940	1767
LGS	0	0	0	0	0	0	0	0	0	2666	2317	2190	1042
LGR	0	0	0	0	0	0	0	0	0	7785	10585	7421	2467
PRD	0	0	0	1	0	0	0	0	14	136	53	13	0
RIS	0	0	0	0	0	0	1	0	1	286	50	40	141
RRH	0	0	0	0	0	0	1	1	0	514	171	133	253
WEL	0	0	0	0	0	0	0	0	0	161	47	24	111
WFA	0	0	2	0	-	-	0	0	-	11643	11470	-	-

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: 06/06/08

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