



Fish Passage Center Weekly Report #06 - 13

June 2, 2006

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Summary of Events:

Water Supply: Precipitation throughout the Columbia Basin has varied between 73% and 124% of average at individual sub-basins over May. Precipitation above The Dalles over May has been 92% of average. Over the entire water year, precipitation has been average or above average at all list locations.

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 2006 May 1-29		Water Year 2006 October 1, 2005 to May 29	
	Observed (inches)	% Average	Observed (inches)	% Average
Columbia Above Coulee	1.88	90	19.75	110
Snake River Above Ice Harbor	1.41	80	17.16	127
Columbia Above The Dalles	1.70	92	19.99	112
Kootenai	2.06	99	21.07	114
Clark Fork	1.39	73	14.63	120
Flathead	1.88	82	18.98	118
Pend Oreille/Spokane	2.35	96	27.86	112
Central Washington	0.90	124	9.69	133
Snake River Plain	1.03	75	10.79	126
Salmon/Boise/Payette	1.26	75	21.99	137
Clearwater	2.81	99	26.64	111
SW Washington Cascades/Cowlitz	3.36	95	63.79	102
Willamette Valley	3.12	95	58.81	110

Table 2 displays the April Final, May Final, and June Early runoff volume forecasts for multiple reservoirs. The June Early forecast at The Dalles between January and July is 111000 Kaf (103% of average).

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

Location	April Final		May Final		June Early Month	
	% Average (1971- 2000)	Probable Runoff Volume (Kaf)	% Average (1971- 2000)	Probable Runoff Volume (Kaf)	% Average (1971- 2000)	Probable Runoff Volume (Kaf)
The Dalles (Jan-July)	100	107000	103	110000	103	111000
Grand Coulee (Jan-July)	96	60600	98	61900	101	63300
Libby Res. Inflow, MT (Jan-July)	96	6030	98	6160	100	6300
Hungry Horse Res. Inflow, MT (Jan-July)	99	2210	101	2250	105	2330
Lower Granite Res. Inflow (Apr-July)	118	25500	126	27100	125	27000
Brownlee Res. Inflow (Apr-July)	133	8380	143	9020	147	9290
Dwarshak Res. Inflow (Apr-July)	96	2540	101	2670	107	2840

Snowpack within the Columbia Basin is diminishing. Average snowpack in the Columbia River for basins above the Snake River confluence is 77% of average, for Snake River Basins the average snowpack is 63% of average, and for lower Columbia Basins between McNary and Bonneville Dam average snowpack 74% of average.

Grand Coulee Reservoir is at 1273.3 feet (6-1-06) and has refilled 5.3 feet over the last week. Inflow has ranged from 209.2 to 269.1 Kcfs, while outflow has ranged 154.8 to 224.4 Kcfs.

The Libby Reservoir is currently at elevation 2450.2 feet (6-1-06) and refilled 2.8 feet last week. Outflows have been approximately 25 Kcfs for sturgeon flow operations. Inflow over the same period ranged from 30.5 to 55.5 Kcfs.

Hungry Horse is currently at an elevation of 3545.7 feet (6-1-06) and refilled 4.7 feet last week. Outflows at Hungry Horse have been approximately 4.0 Kcfs, inflow ranged between 8.9 and 20.3 Kcfs last week.

Dworshak is currently at an elevation of 1582.8 feet (6-1-06) and refilled 5.1 feet last week; outflows at Dworshak have increased from 4.3 to 7.5 Kcfs over the last week. Inflows ranged between 13 and 17.7 Kcfs over the same period.

The Brownlee Reservoir was at an elevation of 2075.1 feet on June 1st, 2006 (refilled 1.9 feet last week). Outflows at Hells Canyon have been as high as 43.5 Kcfs over the last week.

The Biological Opinion flow period began on April 3rd in the lower Snake River (Lower Granite) and on April 10th in the mid (Priest Rapids) and lower (McNary) Columbia River. According to the last Water Supply Forecast (April Final), the flow objectives this spring will be 100 Kcfs at Lower Granite, 260 Kcfs at McNary, and 135 Kcfs at Priest Rapids. Flows at Lower Granite have averaged 131.4 Kcfs over the season and 124.3 Kcfs last week; flows at McNary have averaged 330.4 Kcfs over the season and 375.6 Kcfs last week; and flows at Priest Rapids have averaged 178 Kcfs over the season and 237.6 Kcfs last week.

Spill: No spill occurred at Dworshak Dam over the past week. Spill operations for fish passage at the Lower Snake River projects began on April 3, 2006 in accordance with the December 29, 2005 District Court Order and Opinion. High flows early in the past week resulted in uncontrolled (excess hydraulic capacity) spill at the Snake River projects, however by week's end the flow levels had dropped low enough that spill could be controlled. Spill at Lower Granite, Little Goose, Lower Monumental and Ice Harbor dams averaged 35%, 32%, 26% and 42% of average daily flow over the past week, respectively. All projects exceeded the levels specified in the Court's Order early in the week. However, by Thursday the spill at Lower Granite was reduced to 20 Kcfs was reduced to less than the 30% specified in the Court's Order due to high levels of TDG in the Lower Monumental forebay, spill at Lower Monumental Dam was also decreased substantially due to forebay TDG reading at Ice Harbor Dam, and Ice Harbor Dam spilled according to the research protocol.

Spill for fish passage began on April 10 at Lower Columbia River projects. Peak flows occurred in the lower Columbia over the past week and uncontrolled spill levels were observed. Flows began to recede later in the week and spill levels decreased. Spill at McNary, John Day, The Dalles and Bonneville dams was 54%, 43%, 45% and 41% of average daily flow, respectively. McNary Dam has been exceeding the requirements of the Court's Order. John Day Dam is being operated with a limited hydraulic capacity and spill here also exceeded the Court's Order. Spill at The Dalles Dam exceeded the 40% instantaneous spill called for in the Court's Order earlier in the week, but was decreased to less than 40% on Thursday to address forebay gas concentrations at Bonneville Dam. Spill at Bonneville Dam has exceeded the Court Order over the past week.

High flows have resulted in total dissolved gas levels that have exceeded the TDG waiver limits at most locations over the past week, particularly at the Snake River projects. Biological criteria levels were exceeded at Little Goose Dam over the past week in response to the TDG levels in the Lower Granite tailrace in excess of 125% this past

week and 130% the week before. However, most fish have been showing minor (Rank 1 and Rank 2) signs of GBT at the projects sampled. Snake River sites have shown that approximately 12% to 17% of the fish are showing minor signs of GBT. This is expected to decrease with decreasing TDG levels as flows recede.

Smolt Monitoring: Relatively large numbers of spring migrants continue to be collected at Smolt Monitoring Dams in the Snake River and Lower Columbia River. The indices for yearling Chinook and steelhead decreased at most sites, with the sharpest decrease occurring at Snake River dams. Sockeye, coho and subyearling Chinook indices increased at Lower Columbia River sites, while at Snake River dams sockeye and coho indices have begun to decrease.

At Lower Granite Dam, yearling Chinook indices averaged roughly 4,000 per day over the past week compared to 20,000 per day the previous week. Steelhead indices averaged 14,000 per day this week compared to 75,000 per day last week. Sockeye, coho indices were down at Lower Granite Dam as well as at other Snake River sites. Subyearling Chinook indices increased over the past week at Lower Granite Dam, and now subyearling Chinook predominate at the site, with the index higher than steelhead or yearling Chinook.

At Rock Island Dam indices were down for all species while at Lower Columbia sites yearling Chinook was the only species that declined while all other spring migrants continued to increase over the past two weeks. Subyearling Chinook indices rose most rapidly of all salmonids this past week, with the index at McNary Dam reaching 77,000 on May 31.

Adult Fish Passage: Adult Chinook counts at Bonneville Dam have varied over the last week between 350 and 1,045 adult spring Chinook. Adult spring Chinook counts to-date this year (96,456) are greater than the 2005 total to-date (74,038) but are still only 64% of the ten-year average. Spring Chinook jack counts at Bonneville Dam are 68% of that seen to-date in 2005 and 35% of the ten-year average. Daily adult steelhead passage numbers at Bonneville Dam have ranged between 54 and 73 over the last week.

A total of 21,062 spring Chinook were observed at Ice Harbor Dam, 97% and 43% of the 2005 count and ten-year average, respectively. A total of 6,678 adult spring Chinook have been detected at Priest Rapids Dam. This is 66% and 44% of the 2005 and ten-year average count to-date, respectively.

Hatchery Releases: In the Snake River basin roughly 1 million subyearling Chinook were released beginning May 25 and 26, split equally between Big Canyon Creek and Captain John acclimation facilities. In addition nearly 1 million more subs from Lyons Ferry Hatchery were scheduled to be released at Snake River basin sites by June 1. In the mid-Columbia River releases of summer steelhead were completed in the Okanogan River the last week of May. Also in the mid-Columbia, a volitional release of 3.5 million subyearling Chinook out of Ringold NFH scheduled to begin June 6 was instead begun May 25 due to disease concerns with some of the fish; the release is scheduled to be completed by June 9.

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
05/19/06	97.8	0.0	99.4	0.0	135.9	30.2	151.0	38.0	173.0	39.4	200.3	71.6	194.3	43.7
05/20/06	82.8	0.0	83.5	0.0	121.2	15.0	118.5	0.0	140.7	32.7	145.4	16.3	145.5	12.1
05/21/06	77.8	0.0	82.0	0.0	117.0	11.8	120.7	0.0	140.7	30.1	152.7	26.8	145.3	13.2
05/22/06	106.5	0.0	105.7	0.0	135.2	12.1	133.9	0.0	149.5	33.5	158.6	22.0	154.5	13.4
05/23/06	107.9	0.0	106.7	0.0	134.4	14.1	137.1	0.8	152.5	31.9	170.5	38.0	164.4	13.1
05/24/06	136.7	0.0	128.2	0.0	144.9	15.7	153.4	36.9	165.9	31.2	179.3	50.6	175.6	13.7
05/25/06	163.5	0.0	162.8	2.3	178.2	27.8	173.6	41.8	180.0	34.7	193.1	59.5	176.4	21.7
05/26/06	180.1	0.0	187.8	15.7	216.1	72.8	209.7	35.7	218.7	43.0	250.0	116.6	231.6	69.0
05/27/06	212.2	7.3	205.7	29.2	229.6	93.1	224.0	44.8	227.1	42.2	260.9	133.4	241.3	83.1
05/28/06	224.4	17.1	223.6	35.3	250.3	119.1	251.1	67.5	248.8	46.6	295.5	176.2	280.2	121.6
05/29/06	220.1	17.1	224.0	36.4	246.9	115.1	244.7	66.2	243.0	45.8	287.4	165.8	266.0	109.6
05/30/06	191.3	10.4	205.9	25.7	241.4	105.0	242.8	64.1	239.6	48.1	280.7	150.6	265.6	103.7
05/31/06	154.8	0.2	155.8	0.0	174.7	29.8	177.4	35.6	183.5	30.5	205.9	66.3	196.9	27.4
06/01/06	161.0	0.1	155.1	4.8	174.3	44.9	179.5	37.8	180.9	32.8	195.5	62.2	183.9	14.5

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

Date	Dworshak		Hells Canyon		Lower Granite		Little Goose		Lower Monumental		Ice Harbor	
	Flow	Spill	Inflow	Outflow	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill
05/19/06	4.5	0.0	44.8	31.1	175.0	90.6	169.6	57.5	176.9	60.8	177.1	91.0
05/20/06	4.5	0.0	45.6	31.2	183.8	102.3	187.6	77.6	193.3	76.5	192.9	101.2
05/21/06	4.4	0.0	49.0	31.4	193.4	110.2	194.8	85.3	200.9	86.1	200.3	112.6
05/22/06	4.4	0.0	48.5	34.9	177.8	95.0	174.1	64.0	180.6	66.4	182.4	90.6
05/23/06	4.4	0.0	47.4	40.2	178.3	94.7	176.7	65.3	180.8	68.9	184.1	96.5
05/24/06	8.3	0.0	45.4	40.1	171.6	90.2	170.9	58.6	173.7	60.6	174.7	88.5
05/25/06	9.8	0.0	43.6	40.8	161.9	76.4	160.4	48.0	166.0	52.3	168.4	86.2
05/26/06	9.4	0.0	41.7	43.5	157.2	71.5	156.2	43.8	158.5	44.3	162.5	71.5
05/27/06	4.4	0.0	40.1	37.5	141.5	59.6	139.0	42.5	142.0	43.2	145.3	64.7
05/28/06	4.4	0.0	38.2	37.4	129.0	54.4	124.9	54.4	128.5	33.7	129.8	39.1
05/29/06	4.3	0.0	36.6	36.1	124.1	44.4	120.8	42.8	124.1	31.5	124.4	37.9
05/30/06	6.7	0.0	35.5	35.4	116.0	41.2	113.1	40.1	116.3	36.8	118.4	49.3
05/31/06	7.5	0.0	35.3	31.4	104.1	20.6	102.7	25.8	104.6	19.6	106.4	47.7
06/01/06	7.5	0.0	---	---	98.4	22.0	96.2	25.0	98.9	19.9	99.7	56.3

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		
05/19/06	376.4	199.4	364.4	140.6	359.8	142.5	371.8	146.9	83.6	129.8
05/20/06	382.3	205.9	368.8	146.9	359.5	132.0	377.6	152.8	83.2	130.0
05/21/06	376.0	199.6	370.0	144.0	363.4	138.0	380.7	155.2	83.9	130.1
05/22/06	361.7	187.0	369.7	152.7	359.5	144.5	379.1	156.2	82.2	129.3
05/23/06	368.8	195.2	368.6	160.5	365.5	139.7	386.4	159.9	83.6	131.4
05/24/06	383.7	207.0	390.0	177.0	382.6	142.9	389.6	167.0	82.6	128.4
05/25/06	366.1	189.1	368.5	143.7	377.4	137.9	395.8	167.8	85.1	131.4
05/26/06	378.1	201.1	369.4	147.1	362.6	124.2	373.0	149.4	83.1	128.8
05/27/06	399.3	225.4	384.9	190.8	391.2	212.3	391.5	163.3	84.9	131.8
05/28/06	393.0	219.5	379.4	158.9	386.5	216.8	386.6	160.8	84.4	129.8
05/29/06	393.8	219.8	398.1	170.8	383.7	191.2	393.0	170.0	84.9	126.6
05/30/06	389.6	219.7	387.6	175.2	384.9	189.3	402.9	179.0	83.8	128.5
05/31/06	340.5	172.5	348.2	143.9	351.3	131.4	366.1	142.8	83.4	128.4
06/01/06	334.9	171.4	326.0	131.8	322.0	101.1	335.6	127.0	78.5	118.6

HATCHERY RELEASE LAST TWO WEEKS

Hatchery Release Summary

From: **5/19/2006** to **06/01/06**

Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
National Marine Fisheries Service	Lyons Ferry Hatchery	CH0	FA	2006	230,000	05-15-06	06-02-06	Cpt John Acclim Pond	Snake River
National Marine Fisheries Service					230,000				
Total									
Nez Perce Tribe	Lyons Ferry Hatchery	CH0	FA	2006	500,000	05-25-06	05-26-06	Big Canyon (Clearwater River)	Clearwater River M F
Nez Perce Tribe	Lyons Ferry Hatchery	CH0	FA	2006	500,000	05-26-06	05-29-06	Cpt John Acclim Pond	Snake River
Nez Perce Tribe	Umatilla Hatchery	CH0	FA	2006	400,000	05-22-06	05-24-06	Pittsburg Landing Acclim Pond	Snake River
Nez Perce Tribe Total					1,400,000				
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	CH0	FA	2006	200,000	06-01-06	06-01-06	Lyons Ferry Hatchery	Snake River
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	CH0	FA	2006	350,000	05-30-06	05-30-06	Cpt John Acclim Pond	Snake River
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	CH0	FA	2006	400,000	05-24-06	06-01-06	Grande Ronde River	Grande Ronde River
Washington Dept. of Fish and Wildlife	Ringold Springs Hatchery	CH0	FA	2006	3,450,000	05-25-06	06-09-06	Ringold Springs Hatchery	Mid-Columbia River
Washington Dept. of Fish and Wildlife	Wells Hatchery	ST	SU	2006	98,379	05-01-06	05-26-06	Okanogan River	Okanogan River
Washington Dept. of Fish and Wildlife Total					4,498,379				
Wildlife Total									
Grand Total					6,128,379				

HATCHERY RELEASE NEXT TWO WEEKS

Hatchery Release Summary

From: **6/2/2006** to **6/15/2006**

Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
National Marine Fisheries Service	Lyons Ferry Hatchery	CH0	FA	2006	230,000	05-15-06	06-02-06	Cpt John Acclim Pond	Snake River
National Marine Fisheries Service Total					230,000				
Nez Perce Tribe	Nez Perce Tribal Hatchery	CH0	FA	2006	25,000	06-13-06	06-13-06	Clearwater River	Snake River
Nez Perce Tribe	Nez Perce Tribal Hatchery	CH0	FA	2006	25,000	06-13-06	06-13-06	Clearwater River	Snake River
Nez Perce Tribe	Nez Perce Tribal Hatchery	CH0	FA	2006	500,000	06-08-06	06-15-06	Nez Perce Tribal Hatchery	Clearwater River M F
Nez Perce Tribe Total					550,000				
Washington Dept. of Fish and Wildlife	Ringold Springs Hatchery	CH0	FA	2006	3,450,000	05-25-06	06-09-06	Ringold Springs Hatchery	Mid-Columbia River
Washington Dept. of Fish and Wildlife Total					3,450,000				
Grand Total					4,230,000				

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											
	05/23/06	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	05/30/06	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
Little Goose Dam											
	05/23/06	Chinook + Steelhead	100	12	12	12.00%	0.00%	10	2	0	0
	05/30/06	Chinook + Steelhead	100	17	17	17.00%	0.00%	17	0	0	0
Lower Monumental Dam											
	05/29/06	Chinook + Steelhead	100	12	11	11.00%	0.00%	11	0	0	0
McNary Dam											
	05/26/06	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	05/28/06	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
Bonneville Dam											
	05/23/06	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	05/26/06	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	05/30/06	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
Rock Island Dam											
	05/25/06	Chinook + Steelhead	100	1	1	1.00%	0.00%	1	0	0	0
	05/29/06	Chinook + Steelhead	99	1	1	1.01%	0.00%	1	0	0	0
	06/01/06	Chinook + Steelhead	100	9	9	9.00%	0.00%	9	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 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>					
	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High					
5/19	---	---	---	0	128	129	131	24	116	116	117	24	113	114	116	24	114	114	115	24
5/20	---	---	---	0	129	129	131	24	116	117	118	24	112	113	116	24	114	114	114	24
5/21	---	---	---	0	130	131	131	24	116	116	117	24	112	113	114	24	114	114	115	24
5/22	100	101	101	24	129	130	130	24	116	117	117	24	113	115	116	24	114	115	115	24
5/23	99	99	100	24	129	130	131	24	115	115	116	24	112	113	114	24	113	113	114	24
5/24	99	99	100	24	129	130	130	24	115	115	115	24	112	113	114	24	112	113	113	24
5/25	100	100	100	24	130	131	132	24	115	116	117	24	113	115	115	24	113	114	114	24
5/26	101	101	101	24	131	131	131	24	117	117	117	24	114	115	115	24	113	113	114	23
5/27	100	101	101	24	131	131	132	24	117	117	118	24	115	115	116	24	113	113	113	24
5/28	100	100	100	24	130	131	131	24	117	117	117	24	115	115	116	24	113	113	113	24
5/29	99	99	100	24	130	130	130	24	117	117	117	24	115	115	115	24	113	113	114	24
5/30	99	99	99	24	129	130	130	24	117	117	118	24	114	115	115	24	113	114	114	24
5/31	102	103	103	24	127	128	131	24	117	118	119	24	114	115	116	24	114	114	115	24
6/1	106	107	107	24	127	128	129	24	118	118	119	24	115	116	117	24	114	115	115	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>					
	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High					
5/19	113	113	114	24	110	111	111	24	119	123	137	24	120	122	123	24	121	122	123	24
5/20	113	113	114	24	110	110	110	24	112	113	114	24	119	121	122	24	120	122	124	24
5/21	113	114	115	24	109	110	111	24	112	112	113	24	115	115	116	24	115	115	116	24
5/22	113	114	115	24	110	110	111	24	113	113	113	24	111	112	113	24	112	112	113	24
5/23	112	112	113	24	109	110	110	24	112	112	115	24	110	110	110	24	110	111	112	24
5/24	112	112	112	24	110	110	110	23	113	114	117	23	110	110	111	24	113	113	114	24
5/25	113	114	136	24	110	111	111	16	115	116	125	16	112	112	112	24	114	115	115	24
5/26	123	127	130	24	112	112	113	24	122	126	129	24	114	115	121	24	116	118	122	24
5/27	127	129	133	24	113	113	114	22	126	129	130	22	120	122	123	24	122	123	125	24
5/28	128	129	129	24	114	114	114	24	130	130	130	24	124	127	127	24	125	127	128	24
5/29	129	129	134	24	114	114	114	24	129	130	130	24	127	127	128	24	127	127	127	24
5/30	124	128	131	23	114	115	115	24	128	131	133	24	128	128	130	24	127	128	128	24
5/31	113	114	116	23	113	114	115	24	118	120	129	24	128	130	130	24	127	129	130	24
6/1	115	117	119	24	112	112	112	24	120	125	129	24	119	121	124	24	120	122	124	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>					
	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High					
5/19	117	119	120	24	121	122	124	24	116	117	119	23	121	126	129	23	122	124	127	23
5/20	117	118	120	24	120	121	123	24	116	116	117	23	116	116	118	23	121	124	126	23
5/21	114	116	120	24	119	120	123	24	118	118	119	23	118	119	125	23	117	118	119	23
5/22	111	112	114	24	117	118	120	24	119	119	121	23	119	119	122	23	118	119	121	23
5/23	109	109	110	24	115	116	118	24	116	116	117	23	116	118	126	23	117	119	122	23
5/24	111	113	113	24	115	117	118	24	113	113	114	23	115	116	117	23	115	115	115	23
5/25	113	114	115	24	117	118	120	24	112	113	114	23	115	117	123	23	114	115	115	23
5/26	114	115	116	24	118	119	120	24	114	114	115	23	123	127	128	23	120	124	127	23
5/27	120	121	123	24	122	123	125	24	115	115	116	23	128	129	130	23	125	126	127	23
5/28	122	123	124	24	124	125	126	24	116	117	118	23	131	132	134	23	128	130	132	23
5/29	125	126	127	24	126	127	127	24	118	120	121	23	130	130	131	23	127	129	130	23
5/30	126	127	127	24	127	128	128	24	---	---	---	0	---	---	---	0	---	---	---	0
5/31	126	127	128	24	127	127	128	24	---	---	---	0	---	---	---	0	---	---	---	0
6/1	120	122	123	24	122	123	124	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>		#
	<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>	
5/19	122	123	125	23	114	115	116	24	103	103	105	20	104	105	106	24	109	109	110	24
5/20	119	121	122	23	114	115	116	24	103	104	106	24	104	105	105	24	109	110	110	24
5/21	116	117	118	23	114	115	115	24	103	104	104	23	104	105	106	23	110	110	111	24
5/22	118	118	120	23	112	112	112	24	103	104	104	24	103	104	105	24	109	110	110	24
5/23	117	118	121	23	111	111	113	24	102	102	103	24	103	104	104	24	109	110	110	24
5/24	115	115	116	23	111	112	113	24	102	103	103	24	103	104	104	24	109	109	110	24
5/25	114	115	116	23	111	111	111	24	103	103	103	23	103	104	104	23	108	108	109	24
5/26	120	122	124	23	110	111	112	24	103	103	104	24	103	103	103	24	108	108	109	24
5/27	123	124	124	23	114	115	115	24	102	103	103	24	102	102	103	24	107	107	108	24
5/28	125	126	127	23	115	115	116	24	102	102	102	24	101	101	102	24	106	107	107	24
5/29	125	126	126	23	116	118	118	24	101	102	102	24	102	102	103	24	106	107	107	24
5/30	---	---	---	0	117	119	119	24	101	102	102	24	102	103	103	24	106	107	108	24
5/31	---	---	---	0	119	120	121	24	102	102	103	24	102	103	104	24	106	106	107	24
6/1	---	---	---	0	118	119	120	24	102	103	103	24	102	102	103	24	105	105	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>		#
	<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>	
5/19	104	104	104	24	107	107	107	24	129	131	132	24	120	121	121	24	122	123	124	24
5/20	103	104	104	24	107	107	107	20	131	132	132	20	121	121	122	24	125	126	127	24
5/21	104	104	105	23	108	108	108	24	132	133	135	24	124	125	125	24	126	127	128	24
5/22	103	103	104	24	108	109	109	24	130	131	131	24	125	125	126	24	123	124	125	24
5/23	102	103	103	24	107	107	107	24	130	130	131	24	122	123	124	23	123	123	124	23
5/24	102	103	103	24	107	107	107	24	129	130	130	24	122	122	122	24	122	123	123	24
5/25	102	103	103	23	107	108	108	24	126	126	129	24	122	122	122	24	120	121	123	24
5/26	102	103	103	24	107	107	108	24	125	126	128	24	121	121	122	24	119	119	121	24
5/27	101	102	102	24	106	106	107	24	122	123	126	24	118	118	119	24	120	121	125	24
5/28	101	101	102	24	105	105	106	24	120	123	124	24	116	117	117	24	120	123	125	24
5/29	101	102	103	24	103	104	104	24	118	120	124	24	113	114	114	24	118	120	124	24
5/30	102	103	104	24	104	104	105	24	117	119	123	24	113	113	116	24	119	123	139	24
5/31	102	103	105	24	105	106	106	24	110	111	114	24	115	115	116	24	115	115	116	24
6/1	102	102	103	24	106	107	107	24	111	112	115	24	116	116	117	24	116	116	118	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>		#
	<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>	
5/19	123	124	124	24	121	122	123	24	119	119	120	24	123	123	125	24	---	---	---	0
5/20	123	124	125	24	124	125	127	24	119	119	120	24	124	125	126	24	---	---	---	0
5/21	128	129	129	24	125	126	128	24	122	123	123	24	125	125	126	24	---	---	---	0
5/22	129	130	131	24	123	124	128	24	124	125	125	24	123	124	126	24	---	---	---	0
5/23	123	124	126	24	122	122	123	24	121	122	122	24	123	124	126	24	---	---	---	0
5/24	124	124	124	24	122	122	123	24	120	120	121	24	122	124	126	24	---	---	---	0
5/25	123	124	124	24	120	121	122	24	121	121	122	24	122	124	125	24	---	---	---	0
5/26	122	122	124	24	119	120	121	24	120	120	121	24	120	121	121	24	---	---	---	0
5/27	120	120	121	24	119	121	124	24	117	118	119	24	118	120	122	24	---	---	---	0
5/28	120	121	123	24	118	119	122	24	116	117	117	24	118	118	118	24	---	---	---	0
5/29	119	120	120	24	119	120	122	24	114	115	115	24	117	117	118	24	---	---	---	0
5/30	118	120	121	24	120	121	123	24	115	116	117	24	117	118	121	24	---	---	---	0
5/31	119	121	123	24	120	121	122	24	119	119	120	24	117	118	119	24	---	---	---	0
6/1	118	118	120	24	119	120	120	24	118	118	119	24	117	117	118	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>24 h</u>	<u>12 h</u>	#	<u>24h</u>	<u>12h</u>	#	<u>24h</u>	<u>12h</u>	#	<u>24h</u>	<u>12h</u>	#	<u>24h</u>	<u>AVG</u>	<u>High</u>	#	
	<u>Avg</u>	<u>Avg</u>		<u>High</u>	<u>Avg</u>		<u>Avg</u>	<u>High</u>		<u>Avg</u>	<u>Avg</u>		<u>High</u>	<u>Avg</u>		<u>Avg</u>	<u>High</u>	<u>Avg</u>		<u>AVG</u>
5/19	116	116	117	24	121	122	122	24	116	117	117	24	120	120	121	24	116	116	117	24
5/20	115	115	115	24	122	122	123	24	115	115	116	24	120	120	121	24	115	116	117	24
5/21	115	116	118	24	122	122	122	24	115	115	116	24	120	120	120	24	116	116	117	24
5/22	117	117	118	24	121	121	122	24	115	116	116	24	120	121	121	24	115	116	116	24
5/23	114	115	116	24	120	121	121	24	115	115	116	24	120	121	121	24	115	116	117	24
5/24	113	114	115	24	120	120	120	24	115	115	116	24	122	122	123	24	116	117	117	24
5/25	112	113	114	24	119	120	120	24	114	114	115	24	119	121	121	24	116	116	117	24
5/26	112	113	113	24	120	121	122	24	114	114	114	24	120	121	121	24	114	115	115	24
5/27	110	110	111	24	122	122	122	24	112	113	113	24	122	123	124	24	114	115	117	24
5/28	111	112	113	24	121	122	122	24	110	110	111	24	121	122	123	24	114	116	117	24
5/29	111	112	113	24	122	122	122	24	109	110	110	24	121	122	122	24	113	114	115	24
5/30	114	116	117	24	122	122	123	24	110	111	112	24	122	122	123	24	115	116	117	24
5/31	117	118	119	24	119	120	120	24	112	113	114	24	120	120	121	24	116	116	117	24
6/1	118	119	119	24	119	120	121	24	115	116	117	24	119	120	120	24	115	115	116	24

Total Dissolved Gas Saturation Data at Lower Columbia River Sites

Date	<u>The Dalles Dnst</u>			<u>Bonneville</u>			<u>Warrendale</u>			<u>Camas\Washougal</u>			<u>Cascade Island</u>							
	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#	<u>24h</u>	<u>12h</u>	#	<u>24h</u>	<u>12h</u>	#	<u>24h</u>	<u>12h</u>	#	<u>24h</u>	<u>12h</u>	<u>High</u>	#	
	<u>Avg</u>	<u>Avg</u>		<u>High</u>	<u>Avg</u>		<u>Avg</u>	<u>High</u>		<u>Avg</u>	<u>Avg</u>		<u>High</u>	<u>Avg</u>		<u>Avg</u>	<u>High</u>	<u>Avg</u>		<u>Avg</u>
5/19	119	119	120	24	116	117	117	24	119	119	119	23	116	117	117	24	125	125	125	17
5/20	118	119	120	24	116	116	117	24	119	119	119	23	118	118	119	24	124	125	125	17
5/21	119	120	120	24	117	118	118	24	119	120	120	23	118	118	119	24	123	123	126	17
5/22	119	119	120	24	117	118	118	24	120	120	120	23	118	118	119	24	123	123	125	16
5/23	119	119	119	24	116	116	116	24	119	119	119	23	116	117	118	24	122	122	122	17
5/24	119	119	120	24	116	116	116	24	119	119	120	23	117	117	117	24	122	123	123	17
5/25	119	119	120	24	117	118	118	24	120	120	120	23	118	118	119	24	123	123	123	17
5/26	117	118	118	24	116	117	118	24	119	119	120	23	118	118	118	24	122	122	122	17
5/27	119	119	120	24	113	113	114	24	117	117	118	23	115	116	117	24	122	122	122	17
5/28	120	121	121	24	114	115	116	24	117	117	118	23	114	115	115	24	122	122	122	17
5/29	119	119	119	24	116	117	117	24	119	119	120	23	117	119	119	24	123	123	123	17
5/30	120	120	121	24	118	119	120	24	121	121	122	23	119	120	120	24	123	123	124	17
5/31	120	120	122	24	119	120	121	24	120	121	122	23	120	120	121	24	123	123	125	13
6/1	118	118	118	24	118	119	120	24	119	120	121	23	118	119	119	24	122	122	124	17

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												
	WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2	
Date	(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)
05/19/2006	*	---	---	31	---	62,090	122,682	87,697	319	81,898	64,169	117,891
05/20/2006	*	---	---	13	---	49,984	100,464	52,537	261	---	77,312	60,985
05/21/2006	*	---	---	8	---	12,541	104,849	42,283	433	61,256	78,986	51,410
05/22/2006	*	---	---	0	---	5,493	60,893	20,831	251	---	62,030	32,794
05/23/2006	*	---	---	7	---	3,631	44,262	17,906	266	38,954	45,567	22,879
05/24/2006	*	---	---	9	---	2,782	31,033	12,529	175	---	39,704	27,886
05/25/2006	*	---	---	53	---	4,036	20,210	8,002	169	19,531	27,888	21,541
05/26/2006	*	---	11	---	---	3,449	7,973	8,181	31	---	24,000	19,071
05/27/2006		---	5	---	---	5,551	8,789	4,051	99	18,701	23,164	15,025
05/28/2006	*	---	18	---	---	3,761	12,775	2,945	96	---	22,609	10,507
05/29/2006	*	---	10	---	---	4,783	5,805	2,816	31	8,203	18,486	8,034
05/30/2006	*	---	12	---	---	5,311	20,015	2,966	17	---	18,067	7,291
05/31/2006	*	---	36	---	---	1,847	5,935	1,048	361	9,761	7,015	6,655
06/01/2006	*	---	---	---	---	4,524	3,290	186	123	---	5,957	3,100
06/02/2006		---	---	---	---	---	---	---	---	---	---	---
<hr/>												
Total:	0	92	121	0	169,783	548,975	263,978	2,632	238,304	514,954	405,069	
# Days:	0	6	7	0	14	14	14	14	7	14	14	
Average:	0	15	17	0	12,127	39,213	18,856	188	34,043	36,782	28,934	
YTD	30,806	25,097	13,022	19,187	3,662,047	4,077,632	1,426,040	34,373	1,539,340	2,211,186	2,228,707	

COMBINED SUBYEARLING CHINOOK												
	WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2	
Date	(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)
05/19/2006	*	---	---	0	---	11,073	2,421	531	668	2,841	655	4,525
05/20/2006	*	---	---	0	---	9,743	10,654	788	466	---	475	1,883
05/21/2006	*	---	---	0	---	16,256	9,071	2,088	281	13,824	553	3,838
05/22/2006	*	---	---	0	---	12,358	21,037	2,933	246	---	1,644	764
05/23/2006	*	---	---	0	---	9,399	21,827	5,575	358	51,203	926	1,425
05/24/2006	*	---	---	1	---	4,797	25,008	11,915	365	---	3,240	1,652
05/25/2006	*	---	---	0	---	8,589	18,871	8,112	103	11,096	5,952	1,769
05/26/2006	*	---	0	---	---	8,017	18,282	14,074	112	---	7,847	4,996
05/27/2006		---	0	---	---	17,947	18,099	7,953	46	33,885	10,502	2,947
05/28/2006	*	---	0	---	---	10,926	17,945	5,328	38	---	12,468	4,573
05/29/2006	*	---	0	---	---	13,006	28,914	8,021	75	36,849	8,262	3,868
05/30/2006	*	---	0	---	---	22,129	35,654	11,211	35	---	11,418	4,072
05/31/2006	*	---	0	---	---	20,469	26,491	12,761	39	77,271	11,798	5,263
06/01/2006	*	---	---	---	---	21,364	21,690	9,541	21	---	8,824	4,604
06/02/2006		---	---	---	---	---	---	---	---	---	---	---
<hr/>												
Total:	0	0	1	0	186,073	275,964	100,831	2,853	226,969	84,564	46,179	
# Days:	0	6	7	0	14	14	14	14	7	14	14	
Average:	0	0	0	0	13,291	19,712	7,202	204	32,424	6,040	3,299	
YTD	3	35	14	287	209,242	322,146	101,778	5,066	277,283	104,194	1,754,398	

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)	
05/19/2006	*	---	---	0	---	9,887	4,823	3,192	4,113	1,826	5,192	58,856
05/20/2006	*	---	---	0	---	8,895	10,652	2,997	3,431	---	8,509	39,906
05/21/2006	*	---	---	0	---	4,645	15,352	1,305	3,557	9,840	8,868	28,198
05/22/2006	*	---	---	0	---	2,517	19,661	3,179	2,683	---	17,931	15,636
05/23/2006	*	---	---	0	---	854	9,963	3,462	2,880	10,435	11,532	11,806
05/24/2006	*	---	---	0	---	1,706	5,129	2,958	1,831	---	9,408	18,931
05/25/2006	*	---	---	0	---	1,345	5,394	993	1,672	7,831	16,936	8,963
05/26/2006	*	---	0	---	---	839	4,746	971	596	---	14,521	7,326
05/27/2006		---	0	---	---	1,203	3,331	1,050	1,718	19,524	16,845	9,320
05/28/2006	*	---	0	---	---	806	4,185	1,122	1,092	---	18,585	9,535
05/29/2006	*	---	0	---	---	1,762	1,823	936	357	13,696	17,559	7,142
05/30/2006	*	---	0	---	---	1,287	1,041	940	199	---	17,125	7,227
05/31/2006	*	---	0	---	---	403	702	740	3,189	7,119	5,907	6,171
06/01/2006	*	---	---	---	---	314	1,074	248	1,497	---	10,188	2,607
06/02/2006		---	---	---	---	---	---	---	---	---	---	---
<hr/>												
Total:		0	0	0	0	36,463	87,876	24,093	28,815	70,271	179,106	231,624
# Days:		0	6	7	0	14	14	14	14	7	14	14
Average:		0	0	0	0	2,605	6,277	1,721	2,058	10,039	12,793	16,545
YTD		0	0	0	46	78,938	121,112	31,082	53,165	86,681	256,375	630,705

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)	
05/19/2006	*	---	---	43	---	185,876	186,322	86,694	2,176	9,161	24,887	5,433
05/20/2006	*	---	---	48	---	138,515	194,891	82,018	1,280	---	32,346	3,953
05/21/2006	*	---	---	26	---	83,140	177,230	69,687	1,602	14,711	46,046	3,453
05/22/2006	*	---	---	0	---	54,468	98,199	61,941	955	---	46,299	3,243
05/23/2006	*	---	---	7	---	26,914	87,914	41,323	1,351	27,824	46,180	4,230
05/24/2006	*	---	---	3	---	19,924	55,911	31,053	1,192	---	60,047	2,569
05/25/2006	*	---	---	22	---	21,420	38,328	14,948	751	10,487	53,516	5,994
05/26/2006	*	---	32	---	---	15,847	19,843	12,549	292	---	55,679	4,578
05/27/2006		---	7	---	---	22,203	16,129	10,053	610	17,911	67,890	4,182
05/28/2006	*	---	52	---	---	18,539	12,102	6,029	360	---	69,781	7,492
05/29/2006	*	---	51	---	---	12,754	8,404	4,939	224	11,205	40,342	6,844
05/30/2006	*	---	51	---	---	15,611	8,887	4,195	119	---	39,234	4,560
05/31/2006	*	---	71	---	---	8,086	3,125	1,849	354	4,228	33,385	3,267
06/01/2006	*	---	---	---	---	7,917	3,223	1,983	207	---	17,489	2,516
06/02/2006		---	---	---	---	---	---	---	---	---	---	---
<hr/>												
Total:		0	264	149	0	631,214	910,508	429,261	11,473	95,527	633,121	62,314
# Days:		0	6	7	0	14	14	14	14	7	14	14
Average:		0	44	21	0	45,087	65,036	30,662	820	13,647	45,223	4,451
YTD		1,964	19,694	9,297	3,066	4,428,558	4,313,063	1,245,644	23,266	438,415	1,610,192	257,561

Two-Week Summary of Passage Indices

Date	COMBINED SOCKEYE											
	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)	
05/19/2006	*	---	---	0	---	3,955	4,900	3,035	1,499	17,481	10,806	26,982
05/20/2006	*	---	---	0	---	1,694	4,487	3,552	1,841	---	18,116	13,928
05/21/2006	*	---	---	0	---	1,858	8,587	3,392	3,289	28,080	19,191	12,468
05/22/2006	*	---	---	0	---	1,831	9,393	2,199	3,101	---	22,451	7,245
05/23/2006	*	---	---	0	---	1,068	6,365	3,255	3,177	14,413	12,392	11,766
05/24/2006	*	---	---	0	---	533	5,162	3,131	2,862	---	10,003	12,376
05/25/2006	*	---	---	0	---	414	3,951	1,956	1,374	20,226	24,339	7,940
05/26/2006	*	---	0	---	---	93	2,116	1,456	997	---	17,613	10,073
05/27/2006		---	0	---	---	833	1,529	1,200	907	50,725	17,866	15,404
05/28/2006	*	---	0	---	---	627	1,047	1,683	336	---	28,671	12,842
05/29/2006	*	---	0	---	---	503	955	535	9	53,860	27,425	17,952
05/30/2006	*	---	0	---	---	241	480	289	18	---	25,913	19,021
05/31/2006	*	---	0	---	---	67	200	185	266	17,202	7,753	17,000
06/01/2006	*	---	---	---	---	503	134	248	85	---	8,739	11,140
06/02/2006		---	---	---	---	---	---	---	---	---	---	---
Total:		0	0	0	0	14,220	49,306	26,116	19,761	201,987	251,278	196,137
# Days:		0	6	7	0	14	14	14	14	7	14	14
Average:		0	0	0	0	1,016	3,522	1,865	1,412	28,855	17,948	14,010
YTD		13	0	0	678	48,754	85,816	37,392	32,841	473,082	496,840	383,645

* 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:

6/2/06 10:05 AM

		05/20/06 TO 06/02/06					
		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	107,250	85,831	18,100	7,100	311,769	530,050
	Sum of NumberBarged	79,403	73,923	15,073	5,236	248,894	422,529
	Sum of NumberBypassed	10,588	7,788	2,735	1,307	56,758	79,176
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of SampleMorts	19	10	1	3	20	53
	Sum of FacilityMorts	300	503	41	156	242	1,242
	Sum of ResearchMorts	0	9	0	0	9	18
	Sum of TotalProjectMorts	319	522	42	159	271	1,313
LGS	Sum of NumberCollected	167,861	309,744	43,434	25,314	514,701	1,061,054
	Sum of NumberBarged	166,800	307,343	43,364	24,643	514,285	1,056,435
	Sum of NumberBypassed	6	0	0	0	0	6
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of SampleMorts	7	35	0	12	2	56
	Sum of FacilityMorts	1,048	2,138	70	659	287	4,202
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	1,055	2,173	70	671	289	4,258
LMN	Sum of NumberCollected	71,212	167,869	15,701	16,807	271,319	542,908
	Sum of NumberBarged	63,600	202,925	16,098	17,738	276,361	576,722
	Sum of NumberBypassed	1	848	0	0	1,195	2,044
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of SampleMorts	1	7	0	2	15	25
	Sum of FacilityMorts	63	194	0	62	173	492
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	64	201	0	64	188	517
MCN	Sum of NumberCollected	102,899	111,855	31,729	91,072	43,990	381,545
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	102,654	111,616	31,717	90,972	43,966	380,925
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of SampleMorts	21	28	0	10	1	60
	Sum of FacilityMorts	206	205	9	85	21	526
	Sum of ResearchMorts	18	6	3	5	2	34
	Sum of TotalProjectMorts	245	239	12	100	24	620
Total Sum of NumberCollected		449,222	675,299	108,964	140,293	1,141,779	2,515,557
Total Sum of NumberBarged		309,803	584,191	74,535	47,617	1,039,540	2,055,686
Total Sum of NumberBypassed		113,249	120,252	34,452	92,279	101,919	462,151
Total Sum of Numbertrucked		0	0	0	0	0	0
Total Sum of SampleMorts		48	80	1	27	38	194
Total Sum of FacilityMorts		1,617	3,040	120	962	723	6,462
Total Sum of ResearchMorts		18	15	3	5	11	52
Total Sum of TotalProjectMorts		1,683	3,135	124	994	772	6,708

YTD Transportation Summary

Source: Fish Passage Center

Updated:

6/2/06 10:05 AM

TO: 06/02/06

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	121,390	2,386,262	46,180	30,540	2,784,507	5,368,879
	Sum of NumberBarged	88,760	1,939,088	41,578	23,372	2,427,883	4,520,681
	Sum of NumberBypassed	15,324	437,073	4,214	6,237	349,478	812,326
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	24	198	2	24	89	337
	Sum of FacilityMorts	342	5,994	134	508	1,154	8,132
	Sum of ResearchMorts	0	311	2	1	57	371
	Sum of TotalProjectMorts	366	6,503	138	533	1,300	8,840
LGS	Sum of NumberCollected	202,817	3,021,739	68,158	53,017	3,129,159	6,474,890
	Sum of NumberBarged	197,668	2,638,276	66,561	43,138	2,535,160	5,480,803
	Sum of NumberBypassed	4,081	376,394	1,524	8,894	591,460	982,353
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	10	116	0	20	12	158
	Sum of FacilityMorts	1,058	5,181	73	965	700	7,977
	Sum of ResearchMorts	0	10	0	0	1	11
	Sum of TotalProjectMorts	1,068	5,307	73	985	713	8,146
LMN	Sum of NumberCollected	71,930	1,086,592	21,098	25,669	921,604	2,126,893
	Sum of NumberBarged	64,099	1,105,308	21,336	26,008	903,900	2,120,651
	Sum of NumberBypassed	219	34,382	159	576	50,857	86,193
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	2	46	0	5	30	83
	Sum of FacilityMorts	63	911	0	175	592	1,741
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	65	957	0	180	622	1,824
MCN	Sum of NumberCollected	129,035	820,190	40,743	242,047	228,442	1,460,457
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	128,709	819,315	40,727	241,678	228,288	1,458,717
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	51	109	0	23	13	196
	Sum of FacilityMorts	255	733	13	335	135	1,471
	Sum of ResearchMorts	20	33	3	11	6	73
	Sum of TotalProjectMorts	326	875	16	369	154	1,740
Total Sum of NumberCollected		525,172	7,314,783	176,179	351,273	7,063,712	15,431,119
Total Sum of NumberBarged		350,527	5,682,672	129,475	92,518	5,866,943	12,122,135
Total Sum of NumberBypassed		148,333	1,667,164	46,624	257,385	1,220,083	3,339,589
Total Sum of NumberTrucked		0	0	0	0	0	0
Total Sum of SampleMorts		87	469	2	72	144	774
Total Sum of FacilityMorts		1,718	12,819	220	1,983	2,581	19,321
Total Sum of ResearchMorts		20	354	5	12	64	455
Total Sum of TotalProjectMorts		1,825	13,642	227	2,067	2,789	20,550

Cumulative Adult Passage at Mainstem Dams Through: 06/01

DAM	EndDate	Spring Chinook						Summer Chinook						Fall Chinook					
		2006		2005		10-Yr Avg.		2006		2005		10-Yr Avg.		2006		2005		10-Yr Avg.	
		Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack
BON	06/01	96,456	2,908	74,038	4,288	151,682	8,418	672	61	1,432	52	1,062	107	0	0	0	0	0	0
TDA	06/01	61,115	2,100	58,513	3,133	102,826	5,933	0	0	0	0	0	0	0	0	0	0	0	0
JDA	06/01	47,957	1,919	51,841	2,581	84,875	4,627	0	0	0	0	0	0	0	0	0	0	0	0
MCN	06/01	41,399	2,137	43,696	2,745	75,796	4,600	0	0	0	0	0	0	0	0	0	0	0	0
IHR	05/31	21,062	620	21,719	842	48,475	2,647	0	0	0	0	0	0	0	0	0	0	0	0
LMN	06/01	18,356	347	19,792	700	45,071	2,385	0	0	0	0	0	0	0	0	0	0	0	0
LGS	05/31	14,290	353	17,027	524	41,553	2,261	0	0	0	0	0	0	0	0	0	0	0	0
LGR	05/31	13,900	413	17,220	664	40,152	2,251	0	0	0	0	0	0	0	0	0	0	0	0
PRD	05/31	6,678	30	10,143	344	15,236	414	0	0	0	0	0	0	0	0	0	0	0	0
RIS	05/31	6,820	253	7,544	301	11,283	517	0	0	0	0	0	0	0	0	0	0	0	0
RRH	05/31	3,692	75	2,882	228	4,080	176	0	0	0	0	0	0	0	0	0	0	0	0
WEL	05/29	1,524	13	1,331	27	2,029	61	0	0	0	0	0	0	0	0	0	0	0	0
WFA	05/26	23,735	120	22,809	690	n/a	n/a	---	---	---	---	---	---	0	0	0	0	n/a	n/a

DAM	Coho						Sockeye			Steelhead			
	2006		2005		10-Yr Avg.		10-Yr			10-Yr			Wild
	Adult	Jack	Adult	Jack	Adult	Jack	2006	2005	Avg.	2006	2005	Avg.	2006
BON	0	0	0	0	0	0	11	59	55	3,238	2,791	4625	853
TDA	0	0	-1	1	0	0	1	9	21	1,236	1,249	1295	398
JDA	0	0	4	-13	0	-1	0	-3	12	2,462	1,302	3290	1,029
MCN	0	0	0	0	0	0	0	0	2	2,163	1,252	1650	765
IHR	0	0	0	0	0	0	1	3	0	2,639	1,329	1627	900
LMN	0	0	0	0	0	0	0	0	0	2,663	973	1630	1,027
LGS	0	0	0	0	0	0	0	0	0	2,661	1,024	1926	892
LGR	0	0	0	0	0	0	0	0	0	7,633	4,863	6245	2,332
PRD	2	0	0	0	0	0	0	14	12	44	14	5	0
RIS	0	0	2	0	0	0	0	27	1	60	59	32	38
RRH	0	0	0	0	0	0	0	2	0	149	352	106	131
WEL	0	0	0	0	0	0	0	1	0	27	62	22	20
WFA	0	0	0	0	n/a	n/a	0	0	n/a	18,260	9,795	n/a	n/a

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: 06/02/06

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

Chinook Adult	Chinook Jack	Steelhead	Wild Steelhead
1	0	2,516	238

Run Year counts (June 1, 2005 to May 31, 2006) for Lower Granite:

Steelhead
0