



Fish Passage Center Weekly Report #06 - 12

May 26, 2006

1827 NE 44th Ave., Suite 240
Portland, OR 97213
phone: 503/230-4099
fax: 503/230-7559

Summary of Events:

Water Supply: Precipitation throughout the Columbia Basin has varied between 28% and 118 % of average at individual sub-basins over May. Precipitation above The Dalles over May has been 63% 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 1-22		Water Year 2006 October 1, 2005 to May 22	
	Observed (inches)	% Average	Observed (inches)	% Average
Columbia Above Coulee	0.95	60	18.81	108
SNAKE RIVER Above Ice Harbor	0.69	52	16.44	126
Columbia Above The Dalles	0.88	63	19.17	111
Kootenai	1.22	78	20.23	113
Clark Fork	0.44	31	13.68	117
Flathead	0.66	38	17.76	115
Pend Oreille/Spokane	1.20	65	26.71	110
Central Washington	0.65	118	9.44	133
SNAKE RIVER Plain	0.30	28	10.05	123
Salmon/Boise/Payette	0.66	52	21.39	137
Clearwater	1.03	48	24.85	106
SW Washington Cascades/Cowlitz	1.10	41	61.52	100
Willamette Valley	1.23	49	56.91	108

Table 2 displays the April Final, May Final, and May Mid Month runoff volume forecasts for multiple reservoirs. The May Mid Month forecast at The Dalles between January and July is 109000 Kaf (102% of average).

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

Location	April Final		May Final		May Mid 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	102	109000
Grand Coulee (Jan-July)	96	60600	98	61900	98	61600
Libby Res. Inflow, MT (Jan-July)	96	6030	98	6160	96	6070
Hungry Horse Res. Inflow, MT (Jan-July)	99	2210	101	2250	102	2270
Lower Granite Res. Inflow (Apr-July)	118	25500	126	27100	127	27400
Brownlee Res. Inflow (Apr-July)	133	8380	143	9020	152	9590
Dworshak Res. Inflow (Apr-July)	96	2540	101	2670	102	2690

Snowpack within the Columbia Basin is diminishing. Average snowpack in the Columbia River for basins above the Snake River confluence is 75% of average, for Snake River Basins the average snowpack is 56% of average, and for lower Columbia Basins between McNary and Bonneville Dam average snowpack 58% of average.

Grand Coulee Reservoir is at 1266.7 feet (5-25-06) and has refilled 25.2 feet over the last week. Inflow has ranged from 209.4 to 268.9 Kcfs, while outflow has ranged 77.8 to 163.5 Kcfs.

The Libby Reservoir is currently at elevation 2446.0 feet (5-25-06) and refilled 12.6 feet last week. Outflows have been approximately 25 Kcfs for sturgeon flow operations. Inflow over the same period ranged from 62.5 to 77.0 Kcfs.

Hungry Horse is currently at an elevation of 3539.7 feet (5-25-06) and refilled 12.5 feet last week. Outflows at Hungry Horse are currently 4.1 Kcfs, inflow ranged between 21.1 and 29.8 Kcfs last week.

Dworshak is currently at an elevation of 1574.5 feet (5-25-06) and refilled 13.5 feet last week; outflows at Dworshak have been between 4.4 and 9.8 Kcfs over the last week. Inflows ranged between 21.1 to 28.1 Kcfs over the same period.

The Brownlee Reservoir was at an elevation of 2073.1 feet on May 25th, 2006 (refilled 11.9 feet last week). Outflows at Hells Canyon have been as high as 40.8 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 132.3 Kcfs over the season and 177.4 Kcfs last week; flows at McNary have averaged 323.4 Kcfs over the season and 373.6 Kcfs last week; and flows at Priest Rapids have averaged 168.9 Kcfs over the season and 165.1 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 over the past week have resulted in uncontrolled (excess hydraulic capacity) spill at the Snake River projects. Spill at Lower Granite, Little Goose, Lower Monumental and Ice Harbor dams averaged 53%, 37%, 37% and 52% of average daily flow over the past week, respectively. All projects are exceeding the levels specified in the Court's Order.

Spill for fish passage began on April 10 at Lower Columbia River projects. Spill for fish passage McNary, John Day, The Dalles and Bonneville dams was 53%, 41%, 38% 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. Spill at The Dalles Dam is less than called for in the Court's Order. Spill at Bonneville Dam has been below the Court Order over most of the past week to address TDG levels downstream.

Recent higher 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 monitors. Biological criteria levels have been exceeded. However, more 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% 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 decreased at all sites, with the sharpest decrease occurring at Snake River dams. Steelhead, sockeye, coho and subyearling Chinook indices increased at most SMP dams over the past week. With increasing flows in the Snake River daily indices steelhead moved upward again over the last week.

SMP traps at the Salmon River, Snake River at Lewiston and on the Grande Ronde River were scheduled to end this week. Of the three only the Grande Ronde trap was operating this week as the other two traps had been stopped operating due to high flows and debris beginning mid-May. Hot weather that week triggered the snowmelt freshet from the Salmon River basin, as well as other areas of the Snake River Basin, made trap operations difficult at best.

At Lower Granite Dam, yearling Chinook indices averaged roughly 28,000 per day over the past week compared to 70,000 per day the previous week. Steelhead indices averaged 83,000 per day this week compared to 87,000 per day last week. Sockeye, coho and subyearling Chinook indices all increased over the past week at Lower Granite Dam, although the past few days there have been decreasing indices of all species at the site coinciding with decreasing flows. Little Goose and Lower Monumental dams showed similar trends in their passage indices for Chinook with numbers decreasing over the past week while steelhead indices moved upward, as did indices for sockeye, coho and subyearling Chinook.

At Rock Island Dam indices were up for all species while at Lower Columbia sites yearling Chinook and sockeye indices declined but other spring migrants continued to increase over the past two weeks. Subyearling Chinook indices rose rapidly at McNary Dam and also increased at John Day and Bonneville dams over the past week.

Hatchery Releases: In the Snake River basin over the past two weeks and continuing on into the first week of June, most of the hatchery of subyearling fall Chinook releases will be completed. Nearly 1 million subyearling fall Chinook were released from recent releases at Captain John and Pittsburgh Landing acclimation ponds in addition to an early release from NPT hatchery due to high water temperatures at that facility. Roughly one million subyearling Chinook are scheduled for releases 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 are scheduled to be released at Snake River basin sites by June 1. In the lower-Columbia River summer steelhead acclimation releases were completed in the Umatilla River, while in the mid-Columbia River releases of spring Chinook were completed at Yakima River facilities by mid-May. Coho releases from Wenatchee River were completed in mid-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.

Adult Fish Passage: Adult Chinook counts at Bonneville Dam have varied over the last week between 1,070 and 1,845 adult spring Chinook. Adult spring Chinook counts to-date this year (97,678) have surpassed the 2005 total to-date (65,722) but are still only 67% of the ten-year average. Spring Chinook jack counts at Bonneville Dam are 82% of that seen to-date in 2005 and 39% of the ten-year average. Daily adult steelhead passage numbers at Bonneville Dam have ranged between 43 and 64 over the last week.

A total of 17,725 spring Chinook were observed at Ice Harbor Dam, 94% and 39% of the 2005 count and ten-year average, respectively. A total of 5,700 adult spring Chinook have been detected at Priest Rapids Dam. This is 65% and 40% of the 2005 and ten-year average count to-date, respectively.

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
05/12/06	134.4	0.0	142.6	0.0	161.1	10.0	162.0	36.4	167.4	28.1	188.8	51.7	176.1	16.2
05/13/06	121.1	0.0	124.7	0.0	141.2	10.0	150.7	33.1	156.1	28.1	161.7	30.8	163.9	12.9
05/14/06	89.2	0.0	94.9	0.0	103.8	19.9	97.9	24.2	106.2	20.4	158.1	30.8	161.4	11.0
05/15/06	134.1	0.0	131.4	0.0	149.2	11.6	145.3	34.0	147.3	29.2	132.8	14.0	130.8	10.2
05/16/06	116.8	0.0	119.5	0.0	132.3	20.4	133.9	0.1	142.2	28.5	129.5	9.4	122.7	11.0
05/17/06	105.5	0.0	114.0	0.0	149.0	29.2	141.5	0.0	155.2	28.0	158.9	34.5	140.4	22.0
05/18/06	119.0	0.0	121.5	0.0	172.7	70.6	170.7	41.0	184.9	38.9	204.7	74.8	192.1	41.0
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	128.2	0.0	178.2	27.8	173.6	41.8	180.0	34.7	193.1	59.5	176.4	21.7

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
05/12/06	4.5	0.0	46.8	40.6	101.4	20.3	100.9	30.3	102.5	23.4	102.4	30.6
05/13/06	4.5	0.0	46.2	40.0	100.1	20.4	96.2	28.2	96.9	22.6	99.5	51.1
05/14/06	4.5	0.0	44.5	40.0	105.4	24.9	102.6	29.4	105.5	21.5	107.7	67.8
05/15/06	7.2	0.0	44.3	36.9	120.4	40.4	117.9	29.4	118.2	20.2	119.4	48.0
05/16/06	9.4	0.0	44.5	31.4	131.6	52.5	129.0	38.2	130.0	25.1	130.1	39.6
05/17/06	9.7	0.0	45.3	31.2	151.5	66.7	149.7	40.3	149.7	38.2	152.1	66.7
05/18/06	4.5	0.0	46.9	31.4	165.7	80.7	168.9	56.2	169.4	54.6	172.9	88.9
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	---	---	161.9	76.4	160.4	48.0	166.0	52.3	168.4	86.2

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

Date	McNary		John Day		The Dalles		Bonneville		PH1	PH2
	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill		
05/12/06	276.7	127.2	288.3	118.0	279.1	106.5	284.2	85.1	68.9	118.7
05/13/06	294.1	144.4	295.7	116.2	295.1	115.8	302.7	84.4	81.2	125.6
05/14/06	271.1	121.5	255.1	100.1	246.5	98.0	274.0	84.2	66.9	111.3
05/15/06	274.3	108.5	264.6	84.8	261.7	103.5	291.5	82.3	78.2	119.5
05/16/06	281.2	109.6	266.4	79.8	272.0	99.8	276.1	79.6	69.6	115.4
05/17/06	292.4	118.6	303.5	107.4	300.0	100.8	301.6	77.4	82.9	129.8
05/18/06	352.4	174.4	345.8	133.1	343.3	129.5	345.8	120.9	83.1	130.3
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	383.3	167.8	85.1	131.4

HATCHERY RELEASE LAST TWO WEEKS

Hatchery Release Summary

		From: 5/12/2006 to 05/25/06								
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 Total					230,000					
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	Nez Perce Tribal Hatchery	CH0	FA	2006	281,500	05-17-06	05-17-06	North Lapwai Valley Hatchery	Clearwater River M F	
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					1,181,500					
Umatilla Tribe	Umatilla Hatchery	ST	SU	2006	45,000	04-30-06	05-15-06	Bonifer Acclim Pond	Umatilla River	
Umatilla Tribe	Umatilla Hatchery	ST	SU	2006	45,000	04-30-06	05-15-06	Pendelton Acclim Pond	Umatilla River	
Umatilla Tribe	Umatilla Hatchery	ST	SU	2006	45,000	04-30-06	05-15-06	Thornhollow Acclim Pond	Umatilla River	
Umatilla Tribe Total					135,000					
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					3,948,379					
Yakama Tribe	Cle Elem Hatchery	CH1	SP	2006	231,551	03-15-06	05-14-06	Jack Creek Acclim Pond	Yakima River	
Yakama Tribe	Cle Elem Hatchery	CH1	SP	2006	273,636	03-15-06	05-14-06	Easton Pond	Yakima River	
Yakama Tribe	Cle Elem Hatchery	CH1	SP	2006	280,667	03-15-06	05-14-06	Clark Flat Acclim Pond	Yakima River	
Yakama Tribe	Leavenworth NFH	CO	UN	2006	34,112	04-26-06	05-15-06	Nason Creek	Wenatchee River	
Yakama Tribe	Leavenworth NFH	CO	UN	2006	108,064	04-26-06	05-15-06	Maher Creek Acclim. Pond	Wenatchee River	
Yakama Tribe	Leavenworth NFH	CO	UN	2006	108,574	04-26-06	05-15-06	Coulter Creek	Wenatchee River	
Yakama Tribe Total					1,036,604					
Grand Total					6,531,483					

HATCHERY RELEASE NEXT TWO WEEKS

Hatchery Release Summary

From: 5/26/2006 to 6/8/2006

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	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	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					1,500,000				
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					6,228,379				

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											
	05/16/06	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	05/23/06	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
Little Goose Dam											
	05/16/06	Chinook + Steelhead	100	3	3	3.00%	0.00%	3	0	0	0
	05/23/06	Chinook + Steelhead	100	12	12	12.00%	0.00%	10	2	0	0
Lower Monumental Dam											
	05/15/06	Chinook + Steelhead	100	3	3	3.00%	0.00%	3	0	0	0
	05/22/06	Chinook + Steelhead	100	12	12	12.00%	0.00%	10	2	0	0
McNary Dam											
	05/18/06	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	05/22/06	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
Bonneville Dam											
	05/16/06	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	05/19/06	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	05/23/06	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
Rock Island Dam											
	05/15/06	Chinook + Steelhead	100	3	3	3.00%	0.00%	3	0	0	0
	05/18/06	Chinook + Steelhead	100	2	2	2.00%	0.00%	2	0	0	0
	05/22/06	Chinook + Steelhead	100	1	1	1.00%	0.00%	1	0	0	0
	05/25/06	Chinook + Steelhead	100	1	1	1.00%	0.00%	1	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>	High	#	<u>24 h</u>	<u>12 h</u>	High	#	<u>24 h</u>	<u>12 h</u>	High	#	<u>24 h</u>	<u>12 h</u>	High		#			
	Avg	Avg		hr	Avg	Avg		hr	Avg	Avg		hr	Avg	Avg			hr	Avg	Avg	hr
5/12	---	---	---	0	121	122	122	23	113	113	114	24	111	112	112	24	---	---	---	0
5/13	---	---	---	0	121	122	123	24	112	113	113	24	110	111	112	24	---	---	---	0
5/14	---	---	---	0	121	121	122	23	112	113	113	24	110	110	112	23	---	---	---	0
5/15	---	---	---	0	122	123	124	25	113	114	114	25	111	112	113	25	112	112	112	11
5/16	---	---	---	0	122	123	124	24	114	114	114	24	112	113	114	24	112	112	113	24
5/17	---	---	---	0	124	126	127	24	114	115	115	24	112	113	114	24	113	113	114	24
5/18	---	---	---	0	126	127	129	24	115	115	116	24	113	114	115	24	113	114	115	24
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

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>	High	#	<u>24 h</u>	<u>12 h</u>	High	#	<u>24 h</u>	<u>12 h</u>	High	#	<u>24 h</u>	<u>12 h</u>	High		#			
	Avg	Avg		hr	Avg	Avg		hr	Avg	Avg		hr	Avg	Avg			hr	Avg	Avg	hr
5/12	---	---	---	0	109	109	110	24	111	111	114	24	110	110	110	24	113	114	119	24
5/13	---	---	---	0	108	109	109	24	110	110	110	24	110	110	110	24	112	112	115	24
5/14	---	---	---	0	109	109	110	24	112	115	118	24	110	110	111	24	112	112	112	24
5/15	111	111	111	5	109	110	111	25	111	112	113	25	111	111	114	25	113	114	115	25
5/16	111	111	112	17	110	111	111	23	113	115	118	23	113	113	114	24	113	114	116	24
5/17	112	112	113	24	111	111	112	24	114	117	121	24	113	114	115	24	113	114	116	24
5/18	112	113	113	24	111	111	112	23	122	127	134	23	115	115	116	24	116	117	118	24
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

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>	High	#	<u>24 h</u>	<u>12 h</u>	High	#	<u>24 h</u>	<u>12 h</u>	High	#	<u>24 h</u>	<u>12 h</u>	High		#			
	Avg	Avg		hr	Avg	Avg		hr	Avg	Avg		hr	Avg	Avg			hr	Avg	Avg	hr
5/12	112	114	116	24	116	117	118	24	112	112	112	23	116	117	121	23	113	115	116	23
5/13	113	113	114	24	116	117	117	24	114	116	117	23	114	116	118	23	115	116	117	23
5/14	112	112	113	24	116	116	117	24	115	118	120	23	115	117	119	23	115	117	119	23
5/15	113	114	115	25	116	117	117	24	116	116	118	15	116	117	118	23	115	117	117	23
5/16	113	114	115	24	117	117	118	24	117	117	119	20	116	118	120	23	117	118	120	23
5/17	112	113	113	24	116	117	119	24	115	115	118	13	117	117	120	11	118	119	122	23
5/18	115	116	117	24	119	120	120	24	118	119	121	23	121	123	126	22	118	119	122	23
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

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

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

Date	<u>Priest R. Dnst</u>			#	<u>Pasco</u>			#	<u>Dworshak</u>			#	<u>Clrwtr-Peck</u>			#	<u>Anatone</u>			#			
	<u>24 h</u>	<u>12 h</u>	<u>High</u>		<u>24 h</u>	<u>12 h</u>	<u>High</u>		<u>24 h</u>	<u>12 h</u>	<u>High</u>		<u>24 h</u>	<u>12 h</u>	<u>High</u>		<u>24 h</u>	<u>12 h</u>	<u>High</u>		<u>24 h</u>	<u>12 h</u>	<u>High</u>
	<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>	
5/12	113	114	115	23	110	111	112	24	104	106	107	24	102	103	104	24	106	107	107	24			
5/13	114	115	115	23	110	112	112	24	106	107	108	24	102	104	104	24	106	107	107	24			
5/14	114	115	116	23	111	112	113	24	106	107	107	24	103	104	105	24	106	107	108	24			
5/15	114	115	116	23	112	114	115	25	103	105	106	25	103	104	105	25	107	108	108	25			
5/16	116	117	118	23	113	114	115	24	102	102	103	24	103	104	105	24	106	106	107	24			
5/17	117	118	119	23	114	115	116	24	102	103	103	24	104	105	106	24	106	107	108	24			
5/18	119	120	121	23	114	115	116	24	105	106	107	21	105	105	106	24	108	108	109	24			
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			

Total Dissolved Gas Saturation Data at Snake River Sites

Date	<u>Clrwtr-Lewiston</u>			#	<u>Lower Granite</u>			#	<u>L. Granite Tlwr</u>			#	<u>Little Goose</u>			#	<u>L. Goose Tlwr</u>			#			
	<u>24 h</u>	<u>12 h</u>	<u>High</u>		<u>24 h</u>	<u>12 h</u>	<u>High</u>		<u>24 h</u>	<u>12 h</u>	<u>High</u>		<u>24 h</u>	<u>12 h</u>	<u>High</u>		<u>24 h</u>	<u>12 h</u>	<u>High</u>		<u>24 h</u>	<u>12 h</u>	<u>High</u>
	<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>	
5/12	102	103	105	24	106	106	106	24	110	110	111	24	111	111	112	24	114	114	115	24			
5/13	102	104	105	24	105	105	105	24	110	110	111	24	108	109	109	24	113	114	114	24			
5/14	102	104	105	24	105	105	105	24	112	114	117	24	108	108	109	24	112	112	113	24			
5/15	103	104	105	25	106	106	107	25	118	119	121	25	109	109	112	25	112	112	113	25			
5/16	102	103	104	24	106	107	107	24	120	122	123	24	110	111	112	24	114	117	118	24			
5/17	103	104	104	24	106	107	107	24	123	125	126	24	115	116	118	24	117	118	119	24			
5/18	104	104	105	24	106	107	107	24	128	130	130	24	119	119	120	24	121	122	124	24			
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			

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

Date	<u>Lower Mon.</u>			#	<u>L. Mon. Tlwr</u>			#	<u>Ice Harbor</u>			#	<u>Ice Harbor Tlwr</u>			#	<u>McNary-Oregon</u>			#			
	<u>24 h</u>	<u>12 h</u>	<u>High</u>		<u>24 h</u>	<u>12 h</u>	<u>High</u>		<u>24 h</u>	<u>12 h</u>	<u>High</u>		<u>24 h</u>	<u>12 h</u>	<u>High</u>		<u>24 h</u>	<u>12 h</u>	<u>High</u>		<u>24 h</u>	<u>12 h</u>	<u>High</u>
	<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>	
5/12	116	117	117	24	120	121	122	24	116	116	116	24	117	117	117	24	---	---	---	0			
5/13	114	114	115	24	120	120	121	24	115	115	115	24	117	117	118	24	---	---	---	0			
5/14	114	114	115	24	119	120	120	24	115	116	116	24	118	119	120	24	---	---	---	0			
5/15	115	116	116	25	118	119	120	25	116	117	117	25	118	119	120	25	---	---	---	0			
5/16	115	115	116	24	118	119	119	24	116	116	116	24	118	118	118	24	---	---	---	0			
5/17	117	119	121	24	119	120	120	24	116	117	117	24	120	121	123	24	---	---	---	0			
5/18	119	120	121	24	121	121	123	24	118	118	119	24	122	123	124	24	---	---	---	0			
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			

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>	High	<u>24 h</u>	<u>12 h</u>	High	<u>24h</u>	<u>12h</u>	High	<u>24h</u>	<u>12h</u>	High	<u>24h</u>	<u>12h</u>	High					
	Avg	Avg		hr	Avg		Avg	hr		Avg	Avg		hr	Avg			Avg	hr	Avg	AVG
5/12	113	113	114	24	118	119	119	24	110	110	111	24	119	120	120	24	111	113	114	24
5/13	111	112	113	24	118	119	119	24	111	111	112	24	119	120	120	24	113	115	116	24
5/14	112	113	114	24	116	117	119	24	112	112	112	24	117	118	118	24	114	115	117	24
5/15	115	116	117	25	115	115	116	25	113	113	115	25	117	118	119	24	115	117	118	25
5/16	116	117	118	24	115	115	116	24	114	114	115	23	117	118	119	23	114	115	116	24
5/17	116	117	119	24	116	116	118	24	116	117	118	24	119	120	120	24	115	117	117	24
5/18	116	117	117	24	120	121	121	24	117	118	118	24	119	120	120	24	116	117	118	24
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

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>	High	<u>24 h</u>	<u>12 h</u>	High	<u>24h</u>	<u>12h</u>	High	<u>24h</u>	<u>12h</u>	High	<u>24h</u>	<u>12h</u>	High					
	Avg	Avg		hr	Avg		Avg	hr		Avg	Avg		hr	Avg			Avg	hr	Avg	AVG
5/12	117	117	118	24	112	112	114	24	113	114	115	23	113	113	114	24	120	120	120	17
5/13	118	119	120	24	113	114	116	24	114	115	115	23	113	113	114	24	121	121	122	17
5/14	118	119	119	24	116	117	118	24	117	117	117	23	115	117	117	24	120	120	120	17
5/15	118	119	120	25	116	117	118	25	117	117	117	23	115	115	116	25	120	121	121	18
5/16	117	118	118	24	117	117	118	24	116	117	117	23	115	117	118	24	119	119	121	17
5/17	118	119	119	24	115	115	116	24	115	115	116	23	115	116	117	24	119	120	122	17
5/18	119	120	120	24	115	115	116	24	117	117	118	23	115	116	116	24	122	122	123	16
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

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)	
05/12/2006	*	41	29	54	416	77,073	99,685	57,922	390	---	61,255	65,369
05/13/2006	*	26	26	47	264	65,142	66,570	52,607	842	99,373	50,927	68,480
05/14/2006	*	108	26	59	238	60,500	61,504	43,506	1,606	---	58,013	95,652
05/15/2006	*	---	---	111	284	62,929	62,189	50,969	332	122,261	62,170	76,457
05/16/2006	*	---	---	332	539	68,662	137,510	65,299	527	---	68,013	86,842
05/17/2006	*	---	---	623	721	83,613	119,308	74,938	316	120,654	88,573	80,350
05/18/2006	*	---	---	166	---	61,067	116,162	48,758	206	---	94,719	82,950
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		---	---	---	---	---	---	---	---	---	---	---
Total:		175	81	1,513	2,462	619,543	1,147,321	635,784	6,093	543,927	879,326	891,486
# Days:		3	3	14	6	14	14	14	14	7	14	14
Average:		58	27	108	410	44,253	81,952	45,413	435	77,704	62,809	63,678
YTD		30,806	25,005	13,022	19,187	3,632,821	4,013,050	1,403,847	33,615	1,502,650	2,091,888	2,159,024

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)	
05/12/2006	*	0	0	0	6	0	2,868	0	12	---	248	2,394
05/13/2006	*	0	0	0	6	0	2,008	0	26	1,305	502	1,796
05/14/2006	*	0	0	1	13	250	5,054	0	16	---	396	1,859
05/15/2006	*	---	---	1	23	542	1,665	123	13	1,519	166	1,086
05/16/2006	*	---	---	3	65	1,839	5,350	123	85	---	142	1,487
05/17/2006	*	---	---	0	64	2,784	1,401	0	85	1,160	473	1,294
05/18/2006	*	---	---	1	---	6,990	2,261	361	586	---	892	1,989
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		---	---	---	---	---	---	---	---	---	---	---
Total:		0	0	7	177	84,620	129,496	32,549	3,310	82,948	16,264	27,761
# Days:		3	3	14	6	14	14	14	14	7	14	14
Average:		0	0	1	30	6,044	9,250	2,325	236	11,850	1,162	1,983
YTD		3	35	14	287	95,384	155,071	32,889	4,700	129,180	33,075	1,724,075

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)	
05/12/2006	*	0	0	0	0	502	2,151	130	746	---	2,481	15,803
05/13/2006	*	0	0	0	0	1,258	1,148	322	1,179	1,866	2,058	14,486
05/14/2006	*	0	0	0	0	1,500	2,246	384	3,915	---	5,514	18,768
05/15/2006	*	---	---	0	0	2,712	555	675	2,375	1,177	4,490	18,918
05/16/2006	*	---	---	0	0	2,759	3,210	613	3,679	---	9,234	31,560
05/17/2006	*	---	---	0	0	2,784	4,483	1,140	3,081	2,653	8,172	32,032
05/18/2006	*	---	---	0	---	5,150	2,826	1,518	3,192	---	8,693	40,454
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		---	---	---	---	---	---	---	---	---	---	---
<hr/>												
Total:		0	0	0	0	46,514	87,593	22,868	38,334	35,628	119,018	354,317
# Days:		3	3	14	6	14	14	14	14	7	14	14
Average:		0	0	0	0	3,322	6,257	1,633	2,738	5,090	8,501	25,308
YTD		0	0	0	46	72,324	104,210	25,075	44,517	46,337	155,645	581,377

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)	
05/12/2006	*	57	413	70	51	56,989	54,226	21,878	919	---	23,065	8,141
05/13/2006	*	44	388	85	49	56,842	57,676	23,014	989	10,325	11,936	6,944
05/14/2006	*	42	531	79	41	58,000	60,653	17,675	1,092	---	13,921	4,053
05/15/2006	*	---	---	81	88	64,014	53,022	23,888	675	9,766	11,379	2,383
05/16/2006	*	---	---	372	161	72,340	70,616	25,421	929	---	12,671	2,667
05/17/2006	*	---	---	594	371	172,702	80,501	39,671	712	15,250	18,129	6,756
05/18/2006	*	---	---	187	---	151,933	152,629	33,509	955	---	22,287	7,002
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		---	---	---	---	---	---	---	---	---	---	---
<hr/>												
Total:		143	1,332	1,617	761	1,163,077	1,368,118	572,720	15,578	97,524	422,709	66,821
# Days:		3	3	14	6	14	14	14	14	7	14	14
Average:		48	444	116	127	83,077	97,723	40,909	1,113	13,932	30,194	4,773
YTD		1,964	19,430	9,297	3,066	4,327,601	4,241,350	1,204,047	21,100	405,069	1,286,392	224,122

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)	
05/12/2006	*	2	0	0	19	2,511	0	325	361	---	12,400	24,663
05/13/2006	*	0	0	0	9	1,006	574	0	860	33,556	16,912	24,902
05/14/2006	*	0	0	0	11	1,000	1,408	192	766	---	15,664	18,986
05/15/2006	*	---	---	0	27	1,356	838	860	516	34,984	13,613	11,789
05/16/2006	*	---	---	0	110	1,226	1,339	858	718	---	19,606	15,603
05/17/2006	*	---	---	0	68	3,132	1,681	443	439	42,427	16,046	22,444
05/18/2006	*	---	---	0	---	2,207	2,847	1,520	695	---	13,595	21,120
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	*	---	---	---	---	---	---	---	---	---	---	---
<hr/>												
Total:		2	0	0	244	23,791	51,532	24,718	21,498	191,167	225,134	232,212
# Days:		3	3	14	6	14	14	14	14	7	14	14
Average:		1	0	0	41	1,699	3,681	1,766	1,536	27,310	16,081	16,587
YTD		13	0	0	678	45,887	79,355	31,796	30,223	351,271	362,860	280,213

* See sampling comments

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

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

Definitions for Smolt Index Counts

WTB (Collection) = Salmon River Trap at Whitebird : Collection Counts

IMN (Collection) = Imnaha River Trap : Collection Counts

GRN (Collection) = Grande Ronde River Trap : Collection Counts

LEW (Collection) = Snake River Trap at Lewiston : Collection Counts

LGR (Index) = Lower Granite Dam Bypass Collection System : Passage Index Counts

Passage Index = Collection Counts / {Powerhouse Flow / (Powerhouse Flow + Spill)}

LGS (Index) = Little Goose Bypass Collection System : Passage Index Counts

Passage Index = Collection Counts / {Powerhouse Flow / (Powerhouse Flow + Spill)}

LMN (Index) = Lower Monumental Dam Bypass Collection System : Passage Index Counts

Passage Index = Collection Counts / {Powerhouse Flow / (Powerhouse Flow + Spill)}

RIS (Index) = Rock Island Dam Second Powerhouse Bypass Trap : Passage Index Counts

Passage Index = Collection Counts / {Powerhouse 2 Flow / (Powerhouse 1 & 2 Flow + Spill)}

MCN (Index) = McNary Dam Bypass Collection System : Passage Index Counts

Passage Index = Collection Counts / {Powerhouse Flow / (Powerhouse Flow + Spill)}

JDA (Index) = John Day Dam Bypass Collection System : Passage Index Counts

Passage Index = Collection Counts / {Powerhouse Flow / (Powerhouse Flow + Spill)}

BO2 (Index) = Bonneville Dam Second Powerhouse Bypass Collection System : Passage Index Counts

Passage Index = Collection Counts / {Powerhouse 2 Flow / (Powerhouse 1 & 2 Flow + Spill)}

JDA and BO2 data collected for the FPC by Pacific States Marine Fisheries Commission.

RIS data collected for the FPC by Chelan Co. PUD/Washington Dept. of Fish and Wildlife.

LGR, LMN, and MCN data collected for the FPC by Washington Dept. of Fish and Wildlife.

LGS and GRN data collected for the FPC by Oregon Dept. of Fish and Wildlife.

IMN data collected for the FPC by the Nez Perce Tribe.

Two Week Transportation Summary

Source: Fish Passage Center

Updated:

5/26/06 9:11 AM

		05/13/06	TO	05/26/06			
		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	40,600	401,806	24,950	13,750	664,544	1,145,650
	Sum of NumberBarged	29,843	360,506	22,165	12,181	604,505	1,029,200
	Sum of NumberBypassed	10,588	39,720	2,735	1,307	59,627	113,977
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of SampleMorts	5	23	1	5	26	60
	Sum of FacilityMorts	164	1,538	49	257	371	2,379
	Sum of ResearchMorts	0	19	0	0	15	34
	Sum of TotalProjectMorts	169	1,580	50	262	412	2,473
LGS	Sum of NumberCollected	82,635	776,374	55,119	32,567	900,296	1,846,991
	Sum of NumberBarged	82,474	773,091	55,091	31,671	899,580	1,841,907
	Sum of NumberBypassed	2	2	0	0	2	6
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of SampleMorts	5	18	0	7	5	35
	Sum of FacilityMorts	154	2,679	28	890	286	4,037
	Sum of ResearchMorts	0	4	0	0	0	4
	Sum of TotalProjectMorts	159	2,701	28	897	291	4,076
LMN	Sum of NumberCollected	20,611	458,486	14,996	16,003	384,505	894,601
	Sum of NumberBarged	20,726	492,293	15,593	17,146	389,992	935,750
	Sum of NumberBypassed	1	2,050	0	0	2,290	4,341
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of SampleMorts	0	18	0	1	17	36
	Sum of FacilityMorts	32	380	0	50	229	691
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	32	398	0	51	246	727
MCN	Sum of NumberCollected	39,526	294,411	17,203	101,801	49,804	502,745
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	39,455	294,043	17,199	101,532	49,753	501,982
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of SampleMorts	4	37	0	11	2	54
	Sum of FacilityMorts	66	328	3	257	48	702
	Sum of ResearchMorts	1	3	1	1	1	7
	Sum of TotalProjectMorts	71	368	4	269	51	763
Total Sum of NumberCollected		183,372	1,931,077	112,268	164,121	1,999,149	4,389,987
Total Sum of NumberBarged		133,043	1,625,890	92,849	60,998	1,894,077	3,806,857
Total Sum of NumberBypassed		50,046	335,815	19,934	102,839	111,672	620,306
Total Sum of Numbertrucked		0	0	0	0	0	0
Total Sum of SampleMorts		14	96	1	24	50	185
Total Sum of FacilityMorts		416	4,925	80	1,454	934	7,809
Total Sum of ResearchMorts		1	26	1	1	16	45
Total Sum of TotalProjectMorts		431	5,047	82	1,479	1,000	8,039

YTD Transportation Summary

Source: Fish Passage Center

Updated:

5/26/06 9:11 AM

TO: 05/26/06

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	47,540	2,368,186	42,230	28,790	2,724,033	5,210,779
	Sum of NumberBarged	32,016	1,924,801	37,882	22,044	2,375,398	4,392,141
	Sum of NumberBypassed	15,324	436,897	4,214	6,237	347,370	810,042
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	10	194	2	22	84	312
	Sum of FacilityMorts	190	5,983	130	486	1,127	7,916
	Sum of ResearchMorts	0	311	2	1	54	368
	Sum of TotalProjectMorts	200	6,488	134	509	1,265	8,596
LGS	Sum of NumberCollected	102,791	3,013,658	67,943	54,047	3,137,062	6,375,501
	Sum of NumberBarged	98,547	2,630,095	66,388	43,997	2,543,094	5,382,121
	Sum of NumberBypassed	4,077	376,395	1,524	8,894	591,460	982,350
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	8	94	0	15	12	129
	Sum of FacilityMorts	159	5,255	31	1,141	637	7,223
	Sum of ResearchMorts	0	13	0	0	1	14
	Sum of TotalProjectMorts	167	5,362	31	1,156	650	7,366
LMN	Sum of NumberCollected	20,880	1,070,736	16,748	21,669	891,860	2,021,893
	Sum of NumberBarged	20,776	1,089,686	17,186	22,226	875,884	2,025,758
	Sum of NumberBypassed	219	34,328	159	576	50,763	86,045
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	1	45	0	4	27	77
	Sum of FacilityMorts	32	882	0	157	559	1,630
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	33	927	0	161	586	1,707
MCN	Sum of NumberCollected	63,359	803,922	22,915	188,367	213,707	1,292,270
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	63,208	803,096	22,909	188,045	213,559	1,290,817
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	34	102	0	17	13	166
	Sum of FacilityMorts	114	694	5	298	130	1,241
	Sum of ResearchMorts	3	30	1	7	5	46
	Sum of TotalProjectMorts	151	826	6	322	148	1,453
Total Sum of NumberCollected		234,570	7,256,502	149,836	292,873	6,966,662	14,900,443
Total Sum of NumberBarged		151,339	5,644,582	121,456	88,267	5,794,376	11,800,020
Total Sum of NumberBypassed		82,828	1,650,716	28,806	203,752	1,203,152	3,169,254
Total Sum of NumberTrucked		0	0	0	0	0	0
Total Sum of SampleMorts		53	435	2	58	136	684
Total Sum of FacilityMorts		495	12,814	166	2,082	2,453	18,010
Total Sum of ResearchMorts		3	354	3	8	60	428
Total Sum of TotalProjectMorts		551	13,603	171	2,148	2,649	19,122

Cumulative Adult Passage at Mainstem Dams Through: 05/25

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	05/25	97,678	3,024	65,722	3,706	145,085	7,716	0	0	0	0	0	0	0	0	0	0	0	0
TDA	05/25	56,765	1,812	50,251	2,558	96,894	5,267	0	0	0	0	0	0	0	0	0	0	0	0
JDA	05/25	45,616	1,752	44,690	2,036	79,577	4,073	0	0	0	0	0	0	0	0	0	0	0	0
MCN	05/25	36,457	1,745	38,494	2,118	70,690	3,857	0	0	0	0	0	0	0	0	0	0	0	0
IHR	05/25	17,725	446	18,839	567	45,091	2,227	0	0	0	0	0	0	0	0	0	0	0	0
LMN	05/25	13,268	192	16,593	380	41,219	1,973	0	0	0	0	0	0	0	0	0	0	0	0
LGS	05/25	10,650	193	14,415	316	38,023	1,828	0	0	0	0	0	0	0	0	0	0	0	0
LGR	05/25	9,161	179	14,925	366	37,056	1,814	0	0	0	0	0	0	0	0	0	0	0	0
PRD	05/24	5,700	16	8,836	172	14,364	265	0	0	0	0	0	0	0	0	0	0	0	0
RIS	05/24	4,455	144	6,170	105	10,142	324	0	0	0	0	0	0	0	0	0	0	0	0
RRH	05/24	2,099	16	2,248	78	3,605	85	0	0	0	0	0	0	0	0	0	0	0	0
WEL	05/22	381	3	891	8	1,710	24	0	0	0	0	0	0	0	0	0	0	0	0
WFA	05/22	19,300	85	21,521	613	n/a	n/a	---	---	---	---	---	---	0	0	0	0	0	n/a

DAM	Coho						Sockeye			Steelhead					
	2006		2005		10-Yr Avg.		2006		2005	10-Yr Avg.	2006		2005	10-Yr Avg.	Wild 2006
	Adult	Jack	Adult	Jack	Adult	Jack	2006	2005	Avg.	2006	2005	Avg.	2006		
BON	0	0	0	0	0	0	1	8	1	2,889	2,147	3859	789		
TDA	0	0	-1	1	0	0	0	0	0	1,163	912	1113	381		
JDA	0	0	4	-13	0	-1	0	0	0	2,398	1,152	3135	1,027		
MCN	0	0	0	0	0	0	0	0	0	2,123	1,103	1548	763		
IHR	0	0	0	0	0	0	0	3	0	2,638	1,286	1617	900		
LMN	0	0	0	0	0	0	0	0	0	2,660	917	1616	1,026		
LGS	0	0	0	0	0	0	0	0	0	2,659	997	1918	890		
LGR	0	0	0	0	0	0	0	0	0	7,628	4,843	6237	2,331		
PRD	4	0	0	0	0	0	0	9	6	25	13	2	0		
RIS	0	0	2	0	0	0	4	27	1	57	53	28	37		
RRH	0	0	0	0	0	0	0	1	0	146	350	105	129		
WEL	0	0	0	0	0	0	0	0	0	21	57	22	15		
WFA	0	0	0	0	n/a	n/a	0	0	n/a	16,442	9,375	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: 05/26/06

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