



Fish Passage Center Weekly Report #06 - 15

June 16, 2006

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Summary of Events:

Water Supply: Precipitation throughout the Columbia Basin has varied between 124% and 278% of average at individual sub-basins over the first portion of June. Precipitation above The Dalles over the first portion of June has been 175% of average. Over the entire water year, precipitation has been average or above average at all list locations.

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

Location	Water Year 2006 June 1-12		Water Year 2006 October 1, 2005 to June 12	
	Observed (inches)	% Average	Observed (inches)	% Average
Columbia Above Coulee	1.64	172	21.43	112
Snake River Above Ice Harbor	0.76	131	17.98	126
Columbia Above The Dalles	1.25	175	21.28	114
Kootenai	1.65	168	22.79	117
Clark Fork	1.72	223	16.46	126
Flathead	1.71	162	20.66	120
Pend Oreille/Spokane	2.11	241	30.39	117
Central Washington	0.71	278	10.47	138
Snake River Plain	0.69	180	11.54	128
Salmon/Boise/Payette	0.73	124	22.67	135
Clearwater	1.34	134	28.16	111
SW Washington Cascades/Cowlitz	1.79	151	65.51	103
Willamette Valley	1.67	186	60.69	111

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

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

Location	April Final		May Final		June Final	
	% 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, MI (Jan-July)	96	6080	98	6160	101	6360
Hungry Horse Res. Inflow, MI (Jan-July)	99	2210	101	2250	106	2360
Lower Granite Res. Inflow (Apr-July)	118	25500	126	27100	124	26700
Brownlee Res. Inflow (Apr-July)	133	8380	143	9020	141	8910
Dworshak Res. Inflow (Apr-July)	96	2540	101	2670	106	2800

Snowpack within the Columbia Basin is diminishing. Average snowpack in the Columbia River for basins above the Snake River confluence is 61% of average, for Snake River Basins the average snowpack is 35% of average, and for lower Columbia Basins between McNary and Bonneville Dam average snowpack 31% of average.

Grand Coulee Reservoir is at 1282.1 feet (6-15-06) and has refilled 3.1 feet over the last week. Inflow has ranged from 205 to 216.9 Kcfs, while outflow has ranged 169.9 to 189.9 Kcfs.

The Libby Reservoir is currently at elevation 2457.9 feet (6-15-06) and refilled 1.5 feet last week. Outflows over the last week been approximately 38 Kcfs with 14 Kcfs of spill. Inflow over the last week ranged from 34.7 to 48.9 Kcfs.

Hungry Horse is currently at an elevation of 3556.8 feet (6-15-06) and refilled 4.1 feet last week; outflows at Hungry Horse have been approximately 7.0 Kcfs over the last week. Inflows ranged between 12.2 and 20.6 Kcfs over the same period.

Dworshak is currently at an elevation of 1593.4 feet (6-15-06) and refilled 3.9 feet last week; outflows at Dworshak have decreased from 9.6 to 5.3 Kcfs over the last week. Inflows ranged between 10.4 and 16.8 Kcfs over the same period.

The Brownlee Reservoir was at an elevation of 2076.9 feet on June 15th, 2006. Outflows at Hells Canyon have ranged between 29.4 and 31.7 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 128.5 Kcfs over the season and 113.3 Kcfs last week; flows at McNary have averaged 334 Kcfs over the season and 356.1 Kcfs last week; and flows at Priest Rapids have averaged 188.6 Kcfs over the season and 233 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. Spill at Lower Granite, Little Goose, Lower Monumental and Ice Harbor dams averaged 40%, 40%, 35% and 62% of average daily flow over the past week, respectively. Spill at Lower Granite Dam exceeded the Court Order because of the limited hydraulic capacity at that project. At Little Goose Dam, the COE has set a spill cap that is less than the 30% Court Order, based on the TDG in the Lower Monumental Dam forebay. However, while spill is limited during the daytime hours, spill increases substantially during nighttime hours due to lack of market, or overgeneration spill. This same operation is being implemented at Lower Monumental Dam, with spill limited to as little as 10-11 Kcfs during the daytime hours when possible, but increased to near 95 Kcfs overnight for passage of overgeneration spill. Spill at Ice Harbor Dam is exceeding the Court Order.

Spill for fish passage began on April 10 at Lower Columbia River projects. Continued high flows have occurred in the lower Columbia over the past week and uncontrolled spill levels were observed. Spill at McNary, John Day, The Dalles and Bonneville dams was 55%, 43%, 43% and 40% 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 is being provided at a more flat spill over 24 hours that has varied between 39% and 52% of daily average. Spill at The Dalles Dam did not achieve the Court's Order on two days over the past week. On other days spill is limited during daytime hours to less than 40% of instantaneous flow, but exceeds 70% of instantaneous flow during nighttime hours days. 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 some locations over the past week. Sampled fish are showing signs of GBT at some projects, but action criteria are not being exceeded. Most fish affected have been showing

minor (Rank 1 and Rank 2) signs of GBT at the projects sampled.

Smolt Monitoring: The numbers of spring migrants generally decreased in the collection at all SMP sites over the past week, while subyearling Chinook indices increased at Rock Island and Lower Columbia River sites.

At Lower Granite Dam, subyearling Chinook indices averaged roughly 9,000 per day over the past week compared to 31,000 per day the previous week, while at Lower Monumental Dam the subyearling index averaged 13,000 which is up from 11,000 last week. Spring migrant indices were down at all three dams again this week.

At Rock Island Dam indices for subyearlings averaged 240 per day this week compared to 130 per day last week. At McNary Dam, subyearling indices were down, averaging 38,000 this week compared to 26,000 per day over the previous week. At John Day and Bonneville dams, subyearling indices were up, with the index at John Day averaging 24,000 per day this week compared to 15,000 last week, the Bonneville index averaging nearly 16,000 this week compared to just over 11,000 last week.

Adult Fish Passage -At Bonneville Dam, traditional counting of adult summer Chinook began on June 1st. The weekly count averaged 2,703 fish/day through the week ending June 15th with the total at 29,700 through June 15th. This total is about 127% and 165% of the respective 2005 and 10-year average. The adult summer Chinook count total at The Dalles Dam was 18,188 through the 15th of June.

At Bonneville Dam, the average daily steelhead count for the week was 182 per day. Adult sockeye salmon have increased at Bonneville with the count through June 15 at 4,313, about 63% and 76% of the respective 2005 and 10-year average count.

Approximately 2.3 million adult Shad have been counted at Bonneville Dam this season with daily counts between 119,000 and 252,000 for the week.

Hatchery Releases: In the Snake River basin 550,000 subyearling Chinook were released from the Nez Perce Tribal Hatchery. The releases were scheduled to be completed June 15. A volitional release of 3.5 million subyearling Chinook out of Ringold NFH in the Mid- Columbia, which began May 25, was completed June 9. In the 10 days Priest Rapids Hatchery is scheduled to release roughly 7 million subyearlings. Releases will be completed by June 25.

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
06/02/06	159.3	0.1	169.6	0.0	193.1	59.8	192.4	27.2	200.3	36.5	224.2	96.3	211.8	49.9
06/03/06	184.3	5.1	179.7	6.9	208.5	72.0	204.9	32.3	214.0	37.0	246.8	128.4	232.3	77.2
06/04/06	158.9	6.3	164.2	7.7	191.4	67.0	187.3	30.2	199.4	33.9	229.5	119.5	215.5	63.6
06/05/06	164.1	5.2	165.6	6.3	192.9	60.3	189.9	37.8	200.7	41.1	244.3	132.3	226.4	76.6
06/06/06	184.5	5.9	185.1	11.7	212.6	63.9	211.8	41.8	218.2	40.8	249.0	129.0	232.0	92.3
06/07/06	179.3	5.6	179.0	7.2	210.2	73.6	206.9	43.3	218.3	46.5	251.3	128.2	233.7	90.7
06/08/06	169.2	5.2	170.6	6.4	196.0	49.5	195.8	39.4	204.7	47.8	231.7	108.6	218.9	67.5
06/09/06	179.1	4.4	179.6	11.6	207.4	52.7	207.3	35.6	211.5	46.2	242.4	122.8	221.7	72.5
06/10/06	169.9	15.1	163.9	18.7	186.4	58.4	190.5	50.0	195.6	42.1	223.7	104.8	211.6	95.0
06/11/06	185.1	19.3	187.4	26.6	214.3	81.0	216.1	66.3	216.4	39.9	250.4	134.8	236.1	91.4
06/12/06	181.9	17.1	189.7	21.1	219.5	81.1	221.4	56.7	223.8	45.5	264.7	147.1	246.9	98.8
06/13/06	188.9	24.1	185.8	18.2	210.1	66.4	210.2	48.6	215.9	44.0	247.8	135.3	231.4	88.9
06/14/06	185.3	17.1	186.4	22.2	213.6	72.3	217.2	40.4	223.8	43.5	262.5	144.2	248.1	96.8
06/15/06	189.9	17.1	188.1	22.2	216.3	75.3	215.8	39.8	217.4	39.9	253.4	134.4	234.9	83.5

Daily Average Spill 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
06/02/06	7.3	0.0	28.7	27.4	99.4	20.2	98.0	22.8	100.6	19.7	101.8	39.4
06/03/06	5.4	0.0	27.1	26.6	100.8	23.9	95.5	20.2	98.7	19.9	99.5	41.8
06/04/06	5.4	0.0	27.7	24.6	114.2	36.3	111.6	23.5	113.0	19.5	112.2	71.2
06/05/06	6.8	0.0	27.8	28.9	115.5	43.9	115.1	26.4	116.2	22.0	120.5	68.5
06/06/06	9.0	0.0	27.1	28.0	118.7	44.3	115.0	41.8	115.7	38.4	117.7	81.1
06/07/06	9.6	0.0	26.2	30.1	117.2	47.4	116.7	39.2	116.9	40.1	119.4	81.7
06/08/06	9.6	0.0	28.1	31.0	123.6	48.0	122.5	34.8	122.8	21.9	125.8	70.0
06/09/06	9.6	0.0	27.8	31.7	127.4	50.0	124.4	45.6	126.3	37.7	128.3	72.2
06/10/06	9.6	0.0	29.4	31.6	125.7	59.1	124.6	62.2	125.2	45.8	131.7	85.5
06/11/06	9.3	0.0	31.0	31.7	118.4	68.3	114.5	74.3	119.4	76.4	119.9	98.7
06/12/06	5.3	0.0	31.0	32.5	106.2	37.6	105.4	34.7	105.4	33.6	108.8	59.8
06/13/06	5.3	0.0	31.1	29.4	101.9	29.5	100.7	22.8	101.2	19.1	103.4	50.1
06/14/06	5.3	0.0	29.7	31.6	100.8	42.9	98.1	41.4	99.3	29.2	99.9	69.2
06/15/06	5.3	0.0	---	---	112.8	36.2	112.3	34.5	114.6	37.2	115.7	70.4

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

Date	McNary		John Day		The Dalles		Bonneville			
	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	PH1	PH2
06/02/06	301.4	150.3	302.2	95.5	307.1	100.1	324.1	102.8	81.3	128.6
06/03/06	330.1	180.5	319.4	119.4	304.3	121.4	323.3	102.6	81.4	127.9
06/04/06	338.2	187.8	325.8	120.8	315.6	118.9	335.0	109.5	84.6	128.9
06/05/06	331.1	171.6	325.4	121.5	312.7	137.2	336.6	121.5	77.6	126.0
06/06/06	354.9	194.4	352.4	158.4	335.4	151.1	352.7	134.8	78.4	128.1
06/07/06	363.3	202.9	350.4	165.7	345.0	155.5	363.7	149.5	76.0	126.8
06/08/06	362.7	187.5	352.3	160.2	343.1	149.6	355.7	144.7	73.5	126.0
06/09/06	364.1	194.9	370.5	159.5	360.8	145.0	372.6	149.0	83.3	128.8
06/10/06	357.4	197.9	363.6	154.2	362.2	149.1	372.5	148.6	81.8	130.6
06/11/06	347.7	214.9	336.8	174.4	334.8	198.6	360.0	143.9	81.2	123.4
06/12/06	348.1	188.2	349.9	137.7	345.3	147.6	345.7	136.7	73.2	124.4
06/13/06	352.6	178.1	337.5	130.1	329.8	121.9	351.9	136.1	75.9	128.3
06/14/06	349.3	182.6	346.7	149.7	337.5	122.9	350.5	139.2	74.1	125.7
06/15/06	373.8	204.1	365.5	144.2	358.4	157.2	369.5	149.0	79.1	129.9

HATCHERY RELEASE LAST TWO WEEKS

Hatchery Release Summary

From: 6/2/2006 to 06/15/06

Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
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					4,000,000				

HATCHERY RELEASE NEXT TWO WEEKS

Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
National Marine Fisheries Service	Lyons Ferry Hatchery	CH0	FA	2006	100,000	06-19-06	07-09-06	Big Canyon (Clearwater River)	Clearwater River M F
National Marine Fisheries Service Total					100,000				
U.S. Fish and Wildlife Service	Little White Salmon NFH	CH1	FA	2006	1,800,000	06-23-06	06-23-06	Little White Salmon Hatchery	Little White Salmon R
U.S. Fish and Wildlife Service Total					1,800,000				
Washington Dept. of Fish and Wildlife	Priest Rapids Hatchery	CH0	FA	2006	1,299,000	06-18-06	06-19-06	Priest Rapids Hatchery	Mid-Columbia River
Washington Dept. of Fish and Wildlife	Priest Rapids Hatchery	CH0	FA	2006	1,299,000	06-20-06	06-21-06	Priest Rapids Hatchery	Mid-Columbia River
Washington Dept. of Fish and Wildlife	Priest Rapids Hatchery	CH0	FA	2006	1,299,000	06-22-06	06-23-06	Priest Rapids Hatchery	Mid-Columbia River
Washington Dept. of Fish and Wildlife	Priest Rapids Hatchery	CH0	FA	2006	1,299,000	06-24-06	06-25-06	Priest Rapids Hatchery	Mid-Columbia River
Washington Dept. of Fish and Wildlife	Priest Rapids Hatchery	CH0	FA	2006	1,699,000	06-16-06	06-17-06	Priest Rapids Hatchery	Mid-Columbia River
Washington Dept. of Fish and Wildlife Total					6,895,000				
Grand Total					8,795,000				

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											
	06/06/06	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	06/13/06	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
Little Goose Dam											
	06/06/06	Chinook + Steelhead	100	13	12	12.00%	0.00%	11	1	0	0
	06/13/06	Chinook + Steelhead	100	6	6	6.00%	0.00%	6	0	0	0
Lower Monumental Dam											
	06/12/06	Chinook + Steelhead	28	5	5	17.85%	0.00%	5	0	0	0
McNary Dam											
	06/09/06	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	06/11/06	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
Bonneville Dam											
	06/06/06	Chinook + Steelhead	100	10	10	10.00%	0.00%	9	1	0	0
	06/09/06	Chinook + Steelhead	100	2	2	2.00%	0.00%	2	0	0	0
	06/13/06	Chinook + Steelhead	100	7	7	7.00%	0.00%	4	3	0	0
Rock Island Dam											
	06/08/06	Chinook + Steelhead	100	2	2	2.00%	0.00%	2	0	0	0
	06/12/06	Chinook + Steelhead	100	1	1	1.00%	0.00%	1	0	0	0
	06/15/06	Chinook + Steelhead	86	6	6	6.97%	0.00%	6	0	0	0

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>High</u>	<u>#</u>	<u>24 h</u>		<u>High</u>	<u>#</u>	<u>24 h</u>		<u>High</u>	<u>#</u>	<u>24 h</u>		<u>High</u>	<u>#</u>	<u>24 h</u>		<u>High</u>	<u>#</u>
	<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>		
6/2	107	107	108	24	126	127	128	24	118	119	120	24	114	115	116	24	114	114	115	24
6/3	106	106	107	24	126	127	127	24	118	118	118	24	115	116	117	24	114	114	115	24
6/4	106	107	107	24	126	126	126	24	119	119	119	23	115	116	116	24	115	115	115	24
6/5	106	107	107	24	126	126	127	24	119	119	120	24	114	115	117	24	115	115	115	24
6/6	106	107	107	24	126	126	127	24	118	119	119	24	114	115	116	24	115	116	116	24
6/7	107	107	108	24	126	126	127	24	119	119	120	24	114	115	117	24	116	116	117	24
6/8	107	107	107	24	126	126	126	24	119	120	120	24	114	116	118	24	116	116	117	24
6/9	106	107	107	24	127	128	128	24	120	120	120	24	114	116	117	24	116	116	116	24
6/10	106	106	106	24	127	128	129	24	120	120	121	24	115	117	118	24	116	116	116	24
6/11	106	106	107	24	128	128	129	24	121	121	121	24	118	118	119	24	116	116	117	24
6/12	106	107	107	24	128	128	129	24	121	121	122	24	118	118	118	24	117	117	118	24
6/13	107	108	108	24	127	128	128	24	121	121	122	24	118	119	120	24	117	117	117	14
6/14	107	107	107	24	127	128	128	24	122	122	123	24	118	118	119	24	117	117	117	24
6/15	106	107	107	24	128	128	128	24	122	122	123	24	118	118	119	24	117	118	118	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>High</u>	<u>#</u>	<u>24 h</u>		<u>High</u>	<u>#</u>	<u>24 h</u>		<u>High</u>	<u>#</u>	<u>24 h</u>		<u>High</u>	<u>#</u>	<u>24 h</u>		<u>High</u>	<u>#</u>
	<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>		
6/2	114	114	114	24	112	112	112	24	121	123	126	24	118	119	122	24	119	121	123	24
6/3	118	122	128	24	111	112	114	24	121	123	125	24	119	120	122	24	120	122	123	24
6/4	119	124	129	24	112	113	113	24	121	124	126	24	121	121	122	24	121	122	123	24
6/5	118	122	129	24	112	113	113	24	121	126	130	24	120	122	123	24	121	122	123	24
6/6	120	125	128	24	112	113	115	16	121	122	128	16	121	123	125	24	122	124	125	24
6/7	119	123	129	24	115	116	117	24	124	125	126	24	121	122	123	24	122	123	124	24
6/8	119	124	130	24	114	115	116	23	120	121	123	23	122	123	123	24	123	123	124	24
6/9	118	122	129	24	114	115	116	24	120	123	127	24	119	119	121	24	120	121	123	24
6/10	122	124	127	24	113	114	115	24	121	127	130	24	118	120	124	24	119	122	124	24
6/11	125	128	131	24	115	116	118	24	125	126	128	24	121	124	126	24	122	125	126	24
6/12	122	122	124	24	115	116	116	24	125	127	132	24	124	125	125	24	124	125	126	24
6/13	120	121	124	13	115	115	115	24	122	125	129	24	123	124	125	24	123	125	125	24
6/14	124	125	125	24	115	116	116	23	124	125	131	23	122	122	123	23	122	123	124	23
6/15	124	125	125	24	115	116	117	24	124	126	128	24	121	121	123	24	122	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>High</u>	<u>#</u>	<u>24 h</u>		<u>High</u>	<u>#</u>	<u>24 h</u>		<u>High</u>	<u>#</u>	<u>24 h</u>		<u>High</u>	<u>#</u>	<u>24 h</u>		<u>High</u>	<u>#</u>
	<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>		
6/2	117	117	118	24	120	121	121	24	124	125	125	23	126	129	131	23	124	126	129	23
6/3	119	120	120	24	121	122	123	24	119	119	120	23	128	129	130	23	125	127	128	23
6/4	119	120	121	24	122	123	123	24	119	119	120	23	127	130	135	23	128	129	132	23
6/5	120	121	121	24	123	123	124	24	120	121	125	23	129	132	137	23	127	130	133	23
6/6	120	122	123	24	123	124	125	24	121	123	124	23	128	130	130	23	126	127	129	23
6/7	120	121	122	24	123	123	124	24	---	---	---	0	---	---	---	0	---	---	---	0
6/8	120	120	121	24	123	124	124	24	117	118	119	23	126	129	131	23	123	125	125	23
6/9	119	119	120	24	122	123	124	24	---	---	---	0	---	---	---	0	---	---	---	0
6/10	118	119	119	24	122	123	124	24	---	---	---	0	---	---	---	0	---	---	---	0
6/11	121	122	122	24	124	125	126	24	---	---	---	0	---	---	---	0	---	---	---	0
6/12	123	123	123	24	125	126	127	24	---	---	---	0	---	---	---	0	---	---	---	0
6/13	121	122	123	24	124	125	126	24	---	---	---	0	---	---	---	0	---	---	---	0
6/14	121	122	122	23	124	125	125	23	---	---	---	0	---	---	---	0	---	---	---	0
6/15	120	120	121	24	123	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>Clrwrtr-Peck</u>			<u>Anatone</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	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr
6/2	123	124	126	23	114	114	115	9	102	103	103	24	101	102	102	24	104	104	105	24
6/3	124	125	126	23	115	116	117	24	102	103	103	24	102	103	103	24	104	105	105	24
6/4	125	126	127	23	116	117	117	24	103	103	103	24	102	102	103	24	105	105	106	24
6/5	124	126	128	23	117	118	119	24	102	103	103	24	102	103	104	24	105	106	107	24
6/6	124	125	126	23	118	120	120	24	103	103	103	24	102	103	104	24	105	106	107	24
6/7	---	---	---	0	118	119	120	24	103	103	103	24	102	103	103	24	105	105	106	24
6/8	123	123	124	23	116	117	117	24	102	102	102	24	101	102	102	24	105	105	105	24
6/9	---	---	---	0	115	116	117	24	102	103	103	24	102	102	103	24	105	105	106	24
6/10	---	---	---	0	116	117	118	24	102	103	103	24	102	102	102	24	105	106	106	24
6/11	---	---	---	0	117	117	118	24	103	103	103	24	102	103	103	24	105	106	106	24
6/12	---	---	---	0	117	118	118	24	103	104	104	24	102	103	103	24	105	105	106	24
6/13	---	---	---	0	117	117	117	24	103	103	103	24	101	101	101	24	104	105	105	24
6/14	---	---	---	0	116	116	117	24	102	103	103	24	101	101	101	24	104	105	105	24
6/15	---	---	---	0	116	117	117	24	102	103	103	24	101	101	102	24	105	105	105	24

Total Dissolved Gas Saturation Data at Snake River Sites

Date	<u>Clrwrtr-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>#</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	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr
6/2	101	102	103	24	105	106	106	24	110	111	111	24	112	113	114	24	114	115	115	24
6/3	101	102	103	24	104	104	104	24	112	113	117	24	109	110	111	24	114	114	114	24
6/4	102	102	102	24	104	104	104	24	116	117	117	24	110	110	110	24	113	114	114	24
6/5	102	103	104	24	104	104	104	24	118	119	122	24	109	109	110	24	113	115	115	24
6/6	102	103	104	24	104	105	105	24	118	120	123	24	112	113	115	24	119	123	135	24
6/7	102	102	103	24	105	106	106	24	119	120	123	24	115	116	117	24	118	120	125	24
6/8	101	102	103	24	104	105	105	24	119	120	123	24	114	115	117	24	116	117	124	24
6/9	102	103	103	24	104	104	104	24	119	120	122	24	102	105	111	24	118	120	124	24
6/10	102	103	104	24	104	104	104	24	122	124	124	24	103	104	105	24	122	125	125	24
6/11	102	103	104	24	105	105	105	24	123	125	126	24	105	105	109	24	124	126	128	24
6/12	102	103	104	24	105	105	105	24	116	120	124	24	109	109	110	23	119	122	125	23
6/13	101	101	102	24	104	104	104	24	113	116	121	24	114	117	120	22	118	118	119	22
6/14	101	101	102	24	103	103	104	24	116	119	122	24	115	118	119	24	118	121	125	24
6/15	101	101	102	24	103	103	103	24	116	118	123	24	109	110	111	24	115	118	125	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>#</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	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr
6/2	116	116	117	24	119	120	122	24	118	118	118	24	116	117	117	24	---	---	---	0
6/3	115	115	115	24	120	120	121	24	115	116	116	24	116	117	117	24	---	---	---	0
6/4	114	114	114	24	118	119	119	24	116	116	116	24	117	118	118	24	---	---	---	0
6/5	112	112	113	24	117	118	119	24	114	114	114	24	118	119	121	24	---	---	---	0
6/6	113	113	114	24	118	120	121	24	114	114	115	24	119	120	121	24	---	---	---	0
6/7	119	120	122	24	121	121	122	24	116	116	117	24	120	121	123	24	---	---	---	0
6/8	118	119	120	24	119	121	121	24	116	117	117	24	119	120	121	24	---	---	---	0
6/9	115	115	116	24	119	120	123	24	115	115	116	24	120	121	123	24	---	---	---	0
6/10	118	120	121	24	120	122	129	24	116	116	116	24	120	121	123	24	---	---	---	0
6/11	120	121	124	24	122	122	123	24	117	118	119	24	121	123	126	24	---	---	---	0
6/12	127	128	129	24	122	123	124	24	120	121	121	24	119	119	123	24	---	---	---	0
6/13	122	124	126	24	121	121	122	24	120	120	120	24	118	118	119	24	---	---	---	0
6/14	117	117	119	24	119	120	123	24	119	120	120	24	117	119	119	24	---	---	---	0
6/15	116	117	117	24	120	121	122	24	114	115	116	24	118	119	120	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>High</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>24h</u>	<u>12h</u>	<u>High</u>	<u>24h</u>	<u>12h</u>	<u>High</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>High</u>	<u>#</u>			
	<u>Avg</u>	<u>Avg</u>		<u>hr</u>	<u>Avg</u>		<u>Avg</u>	<u>hr</u>		<u>Avg</u>	<u>Avg</u>		<u>hr</u>	<u>Avg</u>	<u>Avg</u>			<u>hr</u>	<u>Avg</u>	<u>AVG</u>
6/2	117	118	118	23	119	119	119	24	117	118	118	24	118	119	120	24	116	116	116	24
6/3	115	115	115	22	119	120	120	24	117	117	118	24	118	119	119	24	115	117	117	24
6/4	115	115	116	24	119	120	120	24	117	117	118	24	118	118	118	24	116	116	117	24
6/5	115	116	116	24	119	119	119	24	115	115	116	24	118	118	119	24	115	116	116	24
6/6	117	118	119	24	120	121	121	24	115	115	116	24	120	121	122	24	116	117	119	24
6/7	118	119	120	24	121	122	122	24	114	115	115	24	120	121	123	24	115	116	119	24
6/8	116	116	118	24	121	121	123	24	113	113	114	24	120	120	121	24	112	113	113	24
6/9	113	114	114	24	121	121	122	24	111	111	111	24	121	122	122	24	113	113	114	24
6/10	115	116	116	24	121	122	123	24	111	111	111	24	120	121	121	24	114	116	116	24
6/11	116	117	118	24	122	123	123	24	111	112	113	24	120	122	123	24	118	121	124	24
6/12	118	118	119	24	121	121	122	24	115	115	115	24	119	120	121	24	115	116	117	24
6/13	117	117	117	24	120	120	120	24	115	115	116	24	119	119	120	24	113	114	114	24
6/14	115	115	116	24	120	121	122	24	115	116	116	24	119	119	120	24	114	114	114	24
6/15	112	112	113	24	121	121	122	24	112	113	114	24	119	119	120	24	113	114	114	24

Total Dissolved Gas Saturation Data at Lower Columbia River Sites

Date	<u>The Dalles Dnst</u>			<u>Bonneville</u>			<u>Warrendale</u>			<u>CamasWashougal</u>			<u>Cascade Island</u>							
	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>24h</u>	<u>12h</u>	<u>High</u>	<u>24h</u>	<u>12h</u>	<u>High</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>High</u>	<u>#</u>			
	<u>Avg</u>	<u>Avg</u>		<u>hr</u>	<u>Avg</u>		<u>Avg</u>	<u>hr</u>		<u>Avg</u>	<u>Avg</u>		<u>hr</u>	<u>Avg</u>	<u>Avg</u>			<u>hr</u>	<u>Avg</u>	<u>Avg</u>
6/2	118	118	119	24	116	116	116	24	116	116	117	23	116	117	118	24	120	120	121	17
6/3	119	119	121	24	116	117	117	24	116	117	117	23	115	116	116	24	120	120	121	17
6/4	118	119	121	24	118	119	120	24	118	118	119	23	116	116	117	24	119	119	120	17
6/5	119	120	121	24	117	117	118	24	118	118	118	23	117	117	118	24	121	122	124	17
6/6	119	120	121	24	116	118	119	24	118	119	120	23	117	118	119	24	121	121	123	17
6/7	119	120	121	24	115	115	117	24	118	118	119	23	116	117	118	24	124	124	125	17
6/8	117	118	120	24	113	113	114	24	117	117	118	23	114	114	115	24	124	124	124	17
6/9	117	118	118	24	112	113	114	24	116	116	117	19	114	115	115	24	122	122	122	17
6/10	118	119	120	24	114	115	116	24	117	118	118	23	115	116	116	24	124	125	125	17
6/11	122	122	123	24	117	118	119	24	119	119	120	23	117	118	118	24	123	125	125	17
6/12	119	120	122	24	121	121	121	24	120	121	121	23	118	118	119	24	123	123	124	17
6/13	117	118	118	24	116	117	119	24	118	119	120	23	118	118	118	24	123	124	124	17
6/14	117	117	118	24	113	113	114	24	116	116	117	23	115	115	115	24	123	123	124	17
6/15	118	119	119	24	113	113	114	24	116	116	117	23	114	115	115	24	123	123	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/currentsmptsubmitdata.asp>

COMBINED YEARLING CHINOOK											
	WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2
Date	(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)
06/02/2006	---	23	---	---	4,049	6,478	375	74	6,625	7,052	2,219
06/03/2006	*	---	1	---	3,455	4,275	861	54	---	6,659	2,536
06/04/2006	---	6	---	---	4,440	12,375	1,216	45	4,366	4,161	2,300
06/05/2006	*	---	---	---	1,451	11,603	1,481	50	---	3,724	2,001
06/06/2006	*	---	0	---	1,840	14,173	360	111	3,627	4,411	4,235
06/07/2006	*	---	0	---	1,181	19,125	408	102	---	2,552	2,642
06/08/2006	*	---	---	---	823	6,141	1,025	305	1,796	1,896	2,649
06/09/2006	*	---	---	---	1,203	2,465	916	411	---	1,064	1,183
06/10/2006	---	1	---	---	1,120	4,952	845	419	1,356	1,189	921
06/11/2006	*	---	2	---	903	5,748	985	491	---	573	1,406
06/12/2006	---	1	---	---	862	1,186	350	313	856	813	920
06/13/2006	*	---	5	---	419	608	99	144	---	458	508
06/14/2006	---	6	---	---	538	2,014	315	349	513	910	958
06/15/2006	*	---	---	---	785	3,001	1,646	4	---	766	352
06/16/2006	---	---	---	---	---	---	---	---	---	---	---
<hr/>											
Total:	0	45	0	0	23,069	94,144	10,882	2,872	19,139	36,228	24,830
# Days:	0	10	0	0	14	14	14	14	7	14	14
Average:	0	5	0	0	1,648	6,725	777	205	2,734	2,588	1,774
YTD	30,807	25,152	13,056	19,187	3,685,116	4,171,900	1,436,922	37,245	1,558,479	2,247,414	2,253,537

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)
06/02/2006	---	0	---	---	25,002	15,652	4,876	36	26,773	11,499	5,103
06/03/2006	*	---	0	---	49,005	15,222	9,595	54	---	10,223	4,109
06/04/2006	---	0	---	---	61,599	38,680	8,388	66	27,035	14,239	5,299
06/05/2006	*	---	---	---	35,628	33,414	13,617	72	---	20,610	5,489
06/06/2006	*	---	0	---	23,596	55,629	11,028	216	30,687	21,481	12,919
06/07/2006	*	---	0	---	15,813	33,293	9,760	163	---	13,793	20,368
06/08/2006	*	---	---	---	10,128	19,152	21,767	316	20,768	13,793	21,521
06/09/2006	*	---	---	---	10,452	44,405	22,131	193	---	14,482	19,349
06/10/2006	---	0	---	---	13,207	53,449	20,859	139	30,897	17,967	13,844
06/11/2006	*	---	0	---	14,732	42,030	22,798	159	---	20,996	12,172
06/12/2006	---	0	---	---	8,350	18,053	6,778	138	36,760	21,543	16,708
06/13/2006	*	---	0	---	5,217	4,238	4,496	115	---	25,087	18,618
06/14/2006	---	0	---	---	5,027	9,033	9,944	432	48,130	28,778	13,843
06/15/2006	*	---	---	---	7,051	17,208	6,525	531	---	36,468	15,321
06/16/2006	---	---	---	---	---	---	---	---	---	---	---
<hr/>											
Total:	0	0	0	0	284,807	399,458	172,562	2,630	221,050	270,959	184,663
# Days:	0	10	0	0	14	14	14	14	7	14	14
Average:	0	0	0	0	20,343	28,533	12,326	188	31,579	19,354	13,190
YTD	3	35	15	287	494,049	721,604	274,340	7,696	498,342	375,153	1,939,061

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)
06/02/2006		---	0	---	---	900	676	250	825	5,961	8,733	2,241
06/03/2006	*	---	0	---	---	754	1,878	304	979	---	10,628	2,243
06/04/2006		---	0	---	---	416	1,125	122	1,266	2,837	6,586	2,225
06/05/2006	*	---	---	---	---	645	951	307	911	---	4,194	2,821
06/06/2006	*	---	0	---	---	240	893	0	726	1,464	4,819	2,930
06/07/2006	*	---	0	---	---	324	787	363	568	---	2,734	2,284
06/08/2006	*	---	---	---	---	412	1,034	146	511	1,917	1,262	2,520
06/09/2006	*	---	---	---	---	415	945	262	515	---	1,496	977
06/10/2006		---	0	---	---	329	491	221	350	829	1,922	803
06/11/2006	*	---	0	---	---	328	292	219	205	---	1,942	1,406
06/12/2006		---	0	---	---	45	79	50	192	722	2,168	719
06/13/2006	*	---	0	---	---	167	155	174	146	---	1,680	694
06/14/2006		---	0	---	---	258	254	86	194	723	2,977	465
06/15/2006	*	---	---	---	---	192	180	60	68	---	1,341	487
06/16/2006		---	---	---	---	---	---	---	---	---	---	---
<hr/>												
Total:		0	0	0	0	5,425	9,740	2,564	7,456	14,453	52,482	22,815
# Days:		0	10	0	0	14	14	14	14	7	14	14
Average:		0	0	0	0	388	696	183	533	2,065	3,749	1,630
YTD		0	0	0	46	84,363	130,852	33,646	60,621	101,134	308,857	653,520

		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)
06/02/2006		---	96	---	---	5,270	5,465	1,000	229	2,194	10,783	1,307
06/03/2006	*	---	9	---	---	5,340	3,627	1,114	258	---	8,176	1,622
06/04/2006		---	41	---	---	4,578	5,749	1,033	436	1,524	6,553	1,375
06/05/2006	*	---	---	---	---	3,547	3,170	1,066	324	---	5,821	1,590
06/06/2006	*	---	3	---	---	6,879	2,553	1,081	345	1,098	6,210	986
06/07/2006	*	---	0	---	---	4,200	6,844	1,406	220	---	4,435	991
06/08/2006	*	---	---	---	---	3,458	5,753	3,225	178	980	4,000	901
06/09/2006	*	---	---	---	---	3,152	5,054	2,052	201	---	3,656	777
06/10/2006		---	6	---	---	2,767	4,461	1,767	171	510	3,065	402
06/11/2006	*	---	3	---	---	4,596	6,543	2,080	154	---	3,443	641
06/12/2006		---	11	---	---	1,407	1,982	642	160	206	2,258	259
06/13/2006	*	---	8	---	---	1,283	1,934	720	164	---	1,235	160
06/14/2006		---	14	---	---	719	2,332	659	185	600	1,819	438
06/15/2006	*	---	---	---	---	1,715	1,246	808	105	---	2,331	217
06/16/2006		---	---	---	---	---	---	---	---	---	---	---
<hr/>												
Total:		0	191	0	0	48,911	56,713	18,653	3,130	7,112	63,785	11,666
# Days:		0	10	0	0	14	14	14	14	7	14	14
Average:		0	19	0	0	3,494	4,051	1,332	224	1,016	4,556	833
YTD		1,964	19,936	9,317	3,066	4,477,469	4,369,775	1,264,297	26,396	445,527	1,673,977	269,227

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)
06/02/2006	---	0	---	---	321	810	375	53	7,318	6,221	4,384
06/03/2006 *	---	0	---	---	251	324	278	66	---	6,162	4,231
06/04/2006	---	0	---	---	277	689	182	76	4,640	3,287	2,350
06/05/2006 *	---	---	---	---	322	697	245	43	---	2,517	2,026
06/06/2006 *	---	0	---	---	160	639	180	24	3,638	2,903	1,465
06/07/2006 *	---	0	---	---	162	316	227	21	---	1,883	1,349
06/08/2006 *	---	---	---	---	82	258	256	45	1,920	684	1,476
06/09/2006 *	---	---	---	---	166	330	174	12	---	330	940
06/10/2006	---	0	---	---	263	302	184	20	1,455	615	1,042
06/11/2006 *	---	0	---	---	164	215	109	19	---	772	644
06/12/2006	---	0	---	---	91	316	50	51	774	723	316
06/13/2006 *	---	0	---	---	112	69	25	42	---	776	321
06/14/2006	---	0	---	---	81	100	143	187	383	786	821
06/15/2006 *	---	---	---	---	128	213	90	68	---	457	271
06/16/2006	---	---	---	---	---	---	---	---	---	---	---
<hr/>											
Total:	0	0	0	0	2,580	5,278	2,518	727	20,128	28,116	21,636
# Days:	0	10	0	0	14	14	14	14	7	14	14
Average:	0	0	0	0	184	377	180	52	2,875	2,008	1,545
YTD	13	0	0	678	51,334	91,094	39,910	33,568	493,210	524,956	405,281

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

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

Definitions for Smolt Index Counts

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

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

Two Week Transportation Summary

Source: Fish Passage Center

Updated:

6/16/06 9:23 AM

		06/02/06	TO	06/16/06				
		Species						
Site	Data	CHO	CH1	CO	SO	ST	Grand Total	
LGR	Sum of NumberCollected	192,056	15,728	3,630	1,690	31,721	244,825	
	Sum of NumberBarged	203,771	18,830	3,754	1,973	34,216	262,544	
	Sum of NumberBypassed	546	0	0	0	2,362	2,908	
	Sum of Numbertrucked	0	0	0	0	0	0	
	Sum of SampleMorts	42	1	0	3	3	49	
	Sum of FacilityMorts	342	7	6	37	36	428	
	Sum of ResearchMorts	8	0	0	0	0	8	
	Sum of TotalProjectMorts	392	8	6	40	39	485	
LGS	Sum of NumberCollected	269,963	67,130	7,143	3,750	38,925	386,911	
	Sum of NumberBarged	274,539	67,676	7,828	3,690	40,525	394,258	
	Sum of NumberBypassed	38	0	0	0	0	38	
	Sum of Numbertrucked	0	0	0	0	0	0	
	Sum of SampleMorts	39	12	0	0	1	52	
	Sum of FacilityMorts	1,293	61	5	31	41	1,431	
	Sum of ResearchMorts	2	0	0	0	0	2	
	Sum of TotalProjectMorts	1,334	73	5	31	42	1,485	
LMN	Sum of NumberCollected	118,636	7,738	1,840	1,860	13,084	143,158	
	Sum of NumberBarged	121,854	6,761	2,000	1,989	14,022	146,626	
	Sum of NumberBypassed	0	8	0	0	96	104	
	Sum of Numbertrucked	0	0	0	0	0	0	
	Sum of SampleMorts	15	1	0	1	3	20	
	Sum of FacilityMorts	108	22	0	9	21	160	
	Sum of ResearchMorts	0	0	0	0	0	0	
	Sum of TotalProjectMorts	123	23	0	10	24	180	
MCN	Sum of NumberCollected	99,713	8,681	6,566	9,137	3,244	127,341	
	Sum of NumberBarged	0	0	0	0	0	0	
	Sum of NumberBypassed	99,505	8,641	6,564	9,117	3,240	127,067	
	Sum of Numbertrucked	0	0	0	0	0	0	
	Sum of SampleMorts	61	10	1	5	0	77	
	Sum of FacilityMorts	115	25	1	13	4	158	
	Sum of ResearchMorts	32	5	0	2	0	39	
	Sum of TotalProjectMorts	208	40	2	20	4	274	
Total Sum of NumberCollected		680,368	99,277	19,179	16,437	86,974	902,235	
Total Sum of NumberBarged		600,164	93,267	13,582	7,652	88,763	803,428	
Total Sum of NumberBypassed		100,089	8,649	6,564	9,117	5,698	130,117	
Total Sum of Numbertrucked		0	0	0	0	0	0	
Total Sum of SampleMorts		157	24	1	9	7	198	
Total Sum of FacilityMorts		1,858	115	12	90	102	2,177	
Total Sum of ResearchMorts		42	5	0	2	0	49	
Total Sum of TotalProjectMorts		2,057	144	13	101	109	2,424	

YTD Transportation Summary

Source: Fish Passage Center

Updated:

6/16/06 9:23 AM

TO: 06/16/06

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	313,446	2,401,990	49,810	32,230	2,816,228	5,613,704
	Sum of NumberBarged	292,531	1,957,918	45,332	25,345	2,462,099	4,783,225
	Sum of NumberBypassed	15,870	437,073	4,214	6,237	351,840	815,234
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	66	199	2	27	92	386
	Sum of FacilityMorts	684	6,001	140	545	1,190	8,560
	Sum of ResearchMorts	8	311	2	1	57	379
	Sum of TotalProjectMorts	758	6,511	144	573	1,339	9,325
LGS	Sum of NumberCollected	484,780	3,123,694	86,516	62,125	3,224,098	6,981,213
	Sum of NumberBarged	468,085	2,737,672	84,789	51,853	2,629,249	5,971,648
	Sum of NumberBypassed	4,119	376,363	1,524	8,894	591,412	982,312
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	51	131	0	21	13	216
	Sum of FacilityMorts	2,351	5,757	93	1,229	760	10,190
	Sum of ResearchMorts	2	13	0	0	1	16
	Sum of TotalProjectMorts	2,404	5,901	93	1,250	774	10,422
LMN	Sum of NumberCollected	190,566	1,094,330	22,938	27,529	934,688	2,270,051
	Sum of NumberBarged	185,953	1,112,069	23,336	27,997	917,922	2,267,277
	Sum of NumberBypassed	219	34,390	159	576	50,953	86,297
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	17	47	0	6	33	103
	Sum of FacilityMorts	171	933	0	184	613	1,901
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	188	980	0	190	646	2,004
MCN	Sum of NumberCollected	228,748	828,871	47,309	251,184	231,686	1,587,798
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	228,214	827,956	47,291	250,795	231,528	1,585,784
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	108	116	1	26	13	264
	Sum of FacilityMorts	370	758	14	348	139	1,629
	Sum of ResearchMorts	56	41	3	15	6	121
	Sum of TotalProjectMorts	534	915	18	389	158	2,014
Total Sum of NumberCollected		1,217,540	7,448,885	206,573	373,068	7,206,700	16,452,766
Total Sum of NumberBarged		946,569	5,807,659	153,457	105,195	6,009,270	13,022,150
Total Sum of NumberBypassed		248,422	1,675,782	53,188	266,502	1,225,733	3,469,627
Total Sum of NumberTrucked		0	0	0	0	0	0
Total Sum of SampleMorts		242	493	3	80	151	969
Total Sum of FacilityMorts		3,576	13,449	247	2,306	2,702	22,280
Total Sum of ResearchMorts		66	365	5	16	64	516
Total Sum of TotalProjectMorts		3,884	14,307	255	2,402	2,917	23,765

Cumulative Adult Passage at Mainstem Dams Through: 06/15

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	06/15	96,456	2,908	74,038	4,288	151,682	8,418	29,700	948	23,344	1,056	18,020	1,768	0	0	0	0	0	0
TDA	06/15	61,827	2,176	60,956	3,209	104,616	6,110	18,188	694	16,392	637	12,323	1,079	0	0	0	0	0	0
JDA	06/15	50,313	2,093	55,877	2,715	87,792	4,857	11,475	438	11,810	579	8,883	704	0	0	0	0	0	0
MCN	06/15	45,355	2,475	51,855	3,201	80,814	5,125	5,825	328	8,370	362	6,185	554	0	0	0	0	0	0
IHR	06/14	25,465	843	28,039	1,267	54,334	3,256	1,311	52	1,223	89	1,845	199	0	0	0	0	0	0
LMN	06/15	23,596	551	25,933	1,002	51,936	3,032	957	31	793	55	1,078	98	0	0	0	0	0	0
LGS	06/14	20,412	727	23,676	907	49,306	3,019	0	0	0	0	0	0	0	0	0	0	0	0
LGR	06/14	21,809	918	25,036	1,195	48,326	3,175	0	0	0	0	0	0	0	0	0	0	0	0
PRD	06/14	8,534	81	14,148	515	16,757	523	176	0	356	1	195	7	0	0	0	0	0	0
RIS	06/14	8,965	445	10,913	482	12,803	702	0	0	0	0	0	0	0	0	0	0	0	0
RRH	06/14	5,125	242	3,560	396	4,560	265	0	0	0	0	0	0	0	0	0	0	0	0
WEL	06/14	2,704	141	2,126	77	2,486	141	0	0	0	0	0	0	0	0	0	0	0	0
WFA	06/02	25,739	137	27,666	939	n/a	n/a	---	---	---	---	---	---	0	0	0	0	n/a	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							
BON	0	0	0	-1	0	0	4,313	6,817	5,681	5,273	5,575	7553	1,381
TDA	2	0	-1	-1	0	0	2,010	4,052	3,382	1,677	2,269	2196	499
JDA	0	0	3	-13	0	-1	1,721	2,690	2,403	2,933	2,076	4085	1,140
MCN	0	0	0	0	0	0	656	1,411	1,229	2,439	1,919	2124	797
IHR	0	0	0	0	0	0	0	3	0	2,720	1,550	1736	927
LMN	0	0	0	0	0	0	1	0	0	2,741	1,162	1717	1,038
LGS	0	0	0	0	0	0	0	0	0	2,680	1,134	1974	897
LGR	0	0	0	0	0	0	0	7	0	7,660	5,028	6287	2,337
PRD	0	0	0	0	0	0	40	83	179	55	24	15	0
RIS	0	0	2	0	0	0	1	36	21	62	86	42	40
RRH	0	0	0	0	0	0	1	4	14	154	363	109	135
WEL	0	0	0	0	0	0	0	1	0	39	66	22	28
WFA	0	0	0	0	n/a	n/a	0	0	n/a	20,860	10,955	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: 06/16/06

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
26