



Fish Passage Center Weekly Report #06 - 19

July 14, 2006

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Summary of Events:

Water Supply: Precipitation throughout the Columbia Basin has varied between 10% and 182% of average at individual sub-basins over the first portion of July. Precipitation above The Dalles over the first portion of June has been 112% of average. Over the entire water year, precipitation has been average or above average at all list locations.

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

Location	Water Year 2006 July 1-10		Water Year 2006 October 1, 2005 to July 10	
	Observed (inches)	% Average	Observed (inches)	% Average
Columbia Above Coulee	0.82	142	23.31	110
SNAKE RIVER Above Ice Harbor	0.26	87	18.83	122
Columbia Above The Dalles	0.45	112	22.59	112
Kootenai	1.11	182	24.94	115
Clark Fork	0.54	140	17.38	119
Flathead	0.50	98	23.03	119
Pend Oreille/Spokane	0.69	156	32.34	117
Central Washington	0.06	50	11.01	136
SNAKE RIVER Plain	0.29	151	12.11	124
Salmon/Boise/Payette	0.24	94	23.74	133
Clearwater	0.33	70	29.82	109
SW Washington Cascades/Cowlitz	0.04	10	66.03	100
Willamette Valley	0.03	11	61.20	109

Table 2 displays the May Final, June Final, and July Final runoff volume forecasts for multiple reservoirs. The July Final forecast at The Dalles between January and July is 114000 Kaf (106% of average). The forecast at Libby has increased 12% between the June final and July Final forecast.

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

Location	May Final		June Final		July 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)	103	110000	103	111000	106	114000
Grand Coulee (Jan-July)	98	61900	101	63300	106	66900
Libby Res. Inflow, MT (Jan-July)	98	6160	101	6360	113	7120
Hungry Horse Res. Inflow, MT (Jan-July)	101	2250	106	2360	109	2430
Lower Granite Res. Inflow (Apr-July)	126	27100	124	26700	116	25100
Brownlee Res. Inflow (Apr-July)	143	9020	141	8910	138	8710
Dwarshak Res. Inflow (Apr-July)	101	2670	106	2800	105	2770

Grand Coulee Reservoir is at 1288.0 feet (7-12-06) and has drafted about 0.9 feet over the last week. Inflow has ranged from 130.3 to 141.7 Kcfs, while outflow has ranged between 117.6 and 145.3 Kcfs.

The Libby Reservoir is currently at elevation 2457.4 feet (7-12-06) and held steady last week. Outflows are currently 17 Kcfs.

Hungry Horse is currently at an elevation of 3557.3 feet (7-12-06) and has drafted approximately 0.7 feet in the last week. Hungry Horse outflows are approximately 5.4 Kcfs. Inflows ranged between 1.3 and 4.3 Kcfs over the same period.

Dworshak is currently at an elevation of 1591.4 feet (7-12-06) and drafted approximately 6.2 feet last week. Outflows at Dworshak are currently 11.2 Kcfs for temperature regulation at Lower Granite Dam.

The Brownlee Reservoir was at an elevation of 2069.0 feet on July 12th, 2006. Outflows at Hells Canyon have ranged between 15.8 and 22.1 Kcfs over the last week.

The Biological Opinion spring flow period has ended. According to the April Final Water Supply Forecast, the flow objectives this spring was 100 Kcfs at Lower Granite, 260 Kcfs at McNary, and 135 Kcfs at Priest Rapids. Over the entire spring season, flows at Lower Granite averaged 125.8 Kcfs; flows at McNary averaged 325.3 Kcfs; and flows at Priest Rapids averaged 191.3 Kcfs.

According to the June Final Water Supply Forecast, the flow objective this summer is 54.5 Kcfs at Lower Granite (began 6-21-06) and 200 Kcfs at McNary (began 7-1-06). From June 21 to July 12 flows have averaged 51.9 Kcfs at Lower Granite, over the last week flows have averaged 47.2 Kcfs at Lower Granite. Between July 1 and July 12, flows at McNary have averaged 204.8 Kcfs.

Spill: Spill at Dworshak Dam has averaged 14% of average daily flow over the past week. Spill operation 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. Summer spill began on June 21. Spill at Lower Granite, Little Goose, Lower Monumental, and Ice Harbor dams averaged 38%, 31%, 36%, and 52%, of average daily flow over the past week, respectively. All Snake River sites were meeting Court ordered summer spill.

Spring spill for fish passage began on April 10 and continued through June 30 at Lower Columbia River projects. Summer spill was initiated on July 1. Spill at McNary, John Day, The Dalles, and Bonneville dams was 51%, 30%, 40%, and 43% of average daily flow, respectively. McNary, John Day, and the Dalles dams met the Court's orders on most all days last week. Spill at Bonneville Dam was below the Court's order for day time spills for all days this last week, while meeting the Court's order for night time spill. Total dissolved gas levels at Camas/Washougal have been below the waiver requirements since June 27.

Total dissolved gas levels have met the TDG waiver requirements over the past week. Sampled fish are showing signs of GBT at some projects. However, all fish affected have been showing minor (Rank 1) signs of GBT at the projects sampled.

Smolt Monitoring: Subyearling Chinook salmon predominate in the run at all sites as they have for the past several weeks. Small numbers of spring migrants continue to be detected in the system. Subyearling indices decreased at all sites except Rock Island Dam, where indices increased over the past week.

At Lower Granite Dam, subyearling Chinook indices averaged roughly 3,000 per day over the past week compared to 13,000 per day the previous week, while at Little Goose and Lower Monumental Dam the subyearling index averaged 4,600 and 1,700 (respectively) per day this week.

At Rock Island Dam indices for subyearlings averaged 1,000 per day this week compared to

300 per day last week. At McNary Dam, subyearling indices were down, averaging 180,000 this week compared to 330,000 per day over the previous week. At John Day Dam subyearling indices averaged 94,000 per day this week compared to 102,000 per day last week. At Bonneville Dam subyearling indices also decreased with this weeks' average index at 43,000 per day, compared to 65,000 fish per day last week.

Adult Fish Passage: At Bonneville dam, daily counts of summer Chinook averaged 1,069 fish for the week ending July 13. The season total is now 86,898 fish, about 129% and 168% of the respective 2005 and 10-year average counts. The adult summer Chinook count at The Dalles Dam through July 13 was 70,902 fish, about 82% of the Bonneville passage total to date. About 51,931 of the summer Chinook have passed McNary Dam (as of July 12) with the majority moving upstream into the Mid-Columbia River. Daily counts at Rock Island Dam ranged between 1,236 and 1,581 during the week.

At Bonneville Dam, steelhead counts again increased throughout the week with the average daily count of 1,197 per day. Through July 13, the steelhead run at Bonneville Dam was 22,780, 74% and 65% of the respective 2005 and 10-year average counts. The daily counts at The Dalles Dam ranged between 189 and 876 for the week with the cumulative steelhead count through July 13 at 9,140. About 40% of the steelhead counted at

Bonneville Dam have passed The Dalles Dam. The majority of the 6,307 steelhead counted at McNary Dam have moved up into the Snake River with the cumulative count at Ice Harbor Dam now at 4,277 for the season. The cumulative count at Priest Rapids Dam is 237 for the season.

Adult sockeye salmon passage at Bonneville Dam averaged 352 fish per day through the week with the count at Bonneville through July 13 at 35,646, about 52% and 62% of the respective 2005 and 10-year average counts. About 19,587 of the adult sockeye have been counted at Priest Rapids Dam. One of the major spawning sites for the sockeye is Lake Wenatchee with the other site at Lake Osoyoos (Okanogan basin). To date, 37 sockeye have been counted into the Snake River.

Hatchery Releases: Hatchery releases of subyearling Chinook are winding down throughout the system. A late release of 100,000 subyearlings from Lyons Ferry Hatchery were scheduled for release from Big Canyon Creek on the Clearwater River. The release was volitional and scheduled for completion July 9.

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

Date	Grand Coulee		Chief Joseph		Wells		Rocky Reach		Rock Island		Wanapum		Priest Rapids	
	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill
06/30/06	148.2	0.2	148.2	0.0	156.1	15.9	151.4	12.6	156.6	31.0	171.1	32.2	165.0	34.1
07/01/06	112.9	0.2	118.4	0.0	132.9	9.8	141.9	12.1	149.9	25.2	161.6	25.3	161.4	36.4
07/02/06	93.3	0.2	96.0	0.0	100.0	7.2	99.2	10.8	106.9	23.7	113.7	3.8	111.2	23.2
07/03/06	104.8	0.2	104.7	0.0	114.5	7.8	121.2	12.5	125.6	29.2	154.8	26.1	155.0	33.1
07/04/06	96.9	0.3	94.3	0.0	97.8	7.7	95.3	10.3	101.7	25.0	90.0	1.9	86.3	17.6
07/05/06	140.4	0.2	136.5	0.0	145.0	9.0	146.1	14.3	151.1	31.2	160.0	24.7	158.5	32.4
07/06/06	138.2	0.2	141.4	0.0	145.5	10.0	143.6	14.1	150.6	32.3	156.3	15.9	149.6	30.4
07/07/06	145.3	0.2	144.5	0.0	148.0	10.0	149.3	13.3	155.7	30.9	169.4	30.6	162.2	25.5
07/08/06	135.4	0.2	138.8	0.0	150.2	9.4	155.1	12.6	157.4	29.0	168.0	28.9	160.4	22.5
07/09/06	119.6	0.2	115.3	0.0	117.9	8.9	116.1	9.5	121.9	21.9	132.4	8.5	133.6	21.7
07/10/06	143.6	0.2	149.5	0.0	158.8	10.0	155.8	13.8	159.7	31.0	170.5	26.8	161.2	22.9
07/11/06	136.6	0.2	130.5	0.0	138.8	10.0	138.7	13.0	141.6	30.0	149.6	8.6	144.6	20.2
07/12/06	117.6	0.1	121.3	0.0	129.5	10.0	128.7	11.7	132.1	27.9	137.9	1.9	137.9	22.5
07/13/06	133.4	0.2	131.4	0.0	132.9	8.5	131.7	11.6	132.1	25.1	140.2	13.3	129.5	23.2

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
06/30/06	6.8	0.0	14.2	13.4	52.2	18.2	52.1	15.8	52.3	14.3	50.5	17.6
07/01/06	4.3	0.0	14.0	13.6	46.7	18.1	44.1	13.2	41.5	14.3	40.8	15.1
07/02/06	4.3	0.0	14.6	15.8	45.1	17.9	44.3	13.2	45.8	14.8	47.6	31.8
07/03/06	4.3	0.0	15.3	16.3	45.9	18.2	45.6	13.6	47.0	15.2	47.4	36.8
07/04/06	5.9	0.0	15.1	15.7	43.6	17.8	42.4	12.8	42.6	15.3	43.0	20.1
07/05/06	8.4	0.0	16.1	15.8	46.0	18.1	47.5	15.6	47.8	16.8	50.1	16.6
07/06/06	9.5	0.0	15.4	16.9	46.5	18.2	47.0	14.5	44.4	16.0	45.1	32.7
07/07/06	10.0	0.6	15.6	17.9	46.9	18.0	47.5	15.3	47.7	16.9	48.8	36.2
07/08/06	11.3	1.8	13.0	15.8	48.9	17.8	46.7	13.7	45.2	16.6	45.7	19.0
07/09/06	11.3	1.7	15.0	17.6	46.3	18.1	45.9	14.2	48.0	17.0	48.3	15.5
07/10/06	11.2	1.7	14.4	20.5	46.1	17.9	47.8	14.8	46.3	16.8	47.9	33.4
07/11/06	11.2	1.7	14.4	21.3	48.5	18.2	46.0	14.2	46.4	16.9	46.6	32.5
07/12/06	11.2	1.7	14.4	20.4	47.4	18.1	47.0	14.7	46.7	16.7	48.6	17.8
07/13/06	11.2	1.6	---	---	45.0	18.2	44.7	13.5	45.0	16.0	45.7	17.3

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

Date	McNary		John Day		The Dalles		Bonneville		PH1	PH2
	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill		
06/30/06	227.0	100.0	217.0	40.6	208.7	83.4	232.1	74.3	33.7	112.6
07/01/06	204.5	81.8	187.3	55.8	181.7	72.8	196.3	74.7	5.2	104.8
07/02/06	191.4	103.9	183.1	55.4	183.6	73.5	195.7	74.0	2.9	107.3
07/03/06	196.0	110.9	181.5	54.5	178.9	70.1	189.2	74.4	0.0	103.2
07/04/06	181.1	79.4	179.3	54.2	171.4	67.9	187.6	75.4	0.0	100.8
07/05/06	182.9	73.7	160.9	47.9	157.8	62.7	162.6	77.5	1.5	72.1
07/06/06	201.3	80.2	178.0	54.1	169.0	67.2	186.2	82.6	0.0	92.1
07/07/06	207.7	84.6	215.8	67.4	207.2	85.7	214.8	90.0	16.1	97.2
07/08/06	224.6	123.7	209.9	63.2	207.3	80.6	220.9	88.6	13.8	107.0
07/09/06	208.0	122.1	207.6	62.0	202.7	79.5	219.5	89.2	9.9	108.9
07/10/06	231.1	137.7	212.2	63.4	202.0	80.6	203.7	90.3	8.4	93.4
07/11/06	230.6	136.7	225.2	64.0	219.7	86.9	233.5	92.2	22.6	107.2
07/12/06	198.1	87.3	180.3	54.3	171.9	68.8	191.4	92.3	0.9	86.6
07/13/06	182.8	71.7	186.0	55.8	171.4	69.1	191.9	91.8	2.0	86.5

HATCHERY RELEASE LAST TWO WEEKS

Hatchery Release Summary

From: 6/30/2006 to 07/13/06

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
Total					100,000				

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
Little Goose Dam											
	07/04/06	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
Lower Monumental Dam											
	07/10/06	Chinook + Steelhead	65	2	1	1.53%	0.00%	1	0	0	0
McNary Dam											
	07/10/06	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
Bonneville Dam											
	07/04/06	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	07/07/06	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	07/11/06	Chinook + Steelhead	100	2	2	2.00%	0.00%	2	0	0	0
Rock Island Dam											
	07/06/06	Chinook + Steelhead	100	1	1	1.00%	0.00%	1	0	0	0
	07/10/06	Chinook + Steelhead	100	2	2	2.00%	0.00%	2	0	0	0
	07/13/06	Chinook + Steelhead	89	2	2	2.24%	0.00%	2	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	#	<u>24 h</u>	<u>12 h</u>	High	#
	Avg	Avg			Avg	Avg			Avg	Avg			Avg	Avg			Avg	Avg		
6/30	106	106	107	24	117	118	120	24	---	---	---	0	115	116	116	24	115	116	116	24
7/1	106	106	107	24	117	118	120	24	---	---	---	0	114	116	117	24	116	117	117	24
7/2	106	107	107	24	116	117	120	24	119	119	119	16	114	115	117	24	117	117	118	24
7/3	106	107	107	24	115	116	118	24	118	119	119	24	114	116	118	24	116	117	117	24
7/4	107	107	107	24	115	117	119	24	118	119	119	23	114	116	117	24	117	117	117	24
7/5	107	107	108	24	115	116	118	24	119	119	120	24	115	116	118	24	117	117	118	24
7/6	107	108	109	24	115	116	117	24	119	119	119	24	115	115	117	24	116	116	116	24
7/7	106	107	107	24	114	116	117	24	118	119	119	21	114	115	116	24	115	115	115	24
7/8	106	107	107	24	115	116	117	24	119	120	120	24	113	115	117	24	115	116	116	24
7/9	107	108	108	24	116	117	118	24	121	121	121	14	114	116	117	24	117	117	118	24
7/10	108	108	108	24	116	116	117	24	122	122	122	23	116	117	119	24	117	117	118	24
7/11	107	108	108	24	115	116	116	24	121	121	122	21	116	117	118	24	116	117	117	16
7/12	107	108	108	25	114	115	116	25	121	121	122	24	115	116	119	25	116	116	117	13
7/13	107	107	108	24	116	116	117	24	120	120	120	24	116	118	118	24	115	115	116	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	#	<u>24 h</u>	<u>12 h</u>	High	#
	Avg	Avg			Avg	Avg			Avg	Avg			Avg	Avg			Avg	Avg		
6/30	115	116	117	24	114	114	115	24	116	117	121	24	114	115	115	24	115	115	116	24
7/1	116	116	117	24	115	115	116	24	116	117	120	24	114	115	116	24	115	115	116	24
7/2	115	116	117	24	115	116	117	24	116	117	117	24	116	117	117	24	116	117	118	24
7/3	115	116	117	24	115	116	117	24	116	117	117	24	116	116	116	23	116	116	116	23
7/4	116	117	117	24	115	116	117	24	116	117	118	24	115	116	116	24	115	116	116	24
7/5	116	117	117	24	115	116	117	24	116	117	118	24	116	116	116	24	116	116	117	24
7/6	115	116	116	24	114	115	116	24	115	116	116	24	115	115	115	24	115	115	116	24
7/7	114	114	115	24	113	113	114	24	114	115	115	24	113	113	114	24	114	114	114	24
7/8	114	115	116	24	114	114	114	24	115	115	116	24	113	114	115	24	113	114	115	24
7/9	116	116	117	24	115	116	116	24	116	117	117	24	115	116	116	24	115	116	116	24
7/10	116	117	117	24	115	116	116	24	116	117	117	24	115	115	116	24	115	115	116	24
7/11	116	117	117	24	115	116	116	23	116	116	117	23	115	115	115	24	114	115	115	24
7/12	116	117	118	25	114	115	115	25	115	116	116	25	114	114	115	25	114	114	115	25
7/13	115	115	116	24	113	113	114	24	114	114	114	24	113	113	113	24	113	113	114	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	#	<u>24 h</u>	<u>12 h</u>	High	#
	Avg	Avg			Avg	Avg			Avg	Avg			Avg	Avg			Avg	Avg		
6/30	114	115	116	24	118	119	119	24	115	116	117	23	116	117	121	23	116	117	119	23
7/1	114	115	115	24	117	118	119	24	115	116	119	21	118	120	127	23	117	119	124	23
7/2	114	115	116	24	111	117	118	24	114	114	116	14	116	117	117	23	116	116	117	23
7/3	115	116	116	23	117	118	118	23	115	115	117	13	117	117	120	23	116	117	117	23
7/4	114	115	115	24	107	113	118	24	114	114	117	15	116	116	117	23	116	117	117	23
7/5	114	115	116	24	118	119	120	24	114	115	117	23	117	118	120	23	115	116	118	23
7/6	114	114	115	24	117	118	118	24	---	---	---	0	---	---	---	0	---	---	---	0
7/7	113	113	114	24	117	118	118	24	110	110	113	23	112	113	115	23	110	111	112	23
7/8	113	114	114	24	117	118	119	24	112	115	117	23	114	115	117	23	113	114	115	23
7/9	114	115	115	24	115	117	118	24	113	114	117	23	116	117	119	23	115	117	119	23
7/10	115	115	115	24	118	119	119	24	112	113	113	23	115	116	117	23	114	115	115	23
7/11	114	114	115	24	118	118	119	24	111	113	114	23	114	114	115	23	113	113	115	21
7/12	113	114	114	24	115	117	118	25	112	112	113	23	113	113	114	23	111	111	112	23
7/13	113	113	114	24	113	117	118	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>Clrwr-Peck</u>			<u>Anatone</u>							
	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#					
	Avg	Avg		High	Avg		Avg	High		Avg	Avg		High	Avg		Avg	High			
6/30	116	116	117	23	111	113	113	24	99	100	102	24	102	104	105	24	103	104	105	24
7/1	116	117	119	23	112	113	113	24	100	101	101	24	102	104	105	24	103	104	105	24
7/2	114	115	116	23	112	113	114	24	100	101	101	24	103	104	105	24	103	104	105	24
7/3	115	116	117	23	111	111	112	24	100	101	101	24	---	---	---	0	103	104	105	24
7/4	115	116	116	23	111	113	113	24	100	100	101	24	103	104	106	24	103	104	105	24
7/5	114	115	115	23	111	112	113	21	99	100	100	24	102	103	104	24	103	103	104	24
7/6	---	---	---	0	109	110	110	15	99	99	100	24	102	103	104	24	102	102	103	24
7/7	111	112	113	23	107	108	108	24	99	101	104	24	102	103	104	24	102	103	104	24
7/8	114	115	116	23	108	110	110	24	103	103	104	24	104	105	106	24	103	104	105	24
7/9	117	117	118	23	111	112	113	24	103	104	104	24	104	106	107	24	103	104	105	24
7/10	116	116	117	23	111	112	112	24	104	104	104	24	105	106	107	24	103	103	104	24
7/11	114	115	116	23	111	111	112	24	103	104	104	24	105	106	107	24	102	104	105	24
7/12	113	114	114	23	108	108	109	25	103	103	104	25	104	105	106	25	102	102	103	25
7/13	---	---	---	0	108	109	110	24	103	103	103	24	104	106	107	24	102	103	104	24

Total Dissolved Gas Saturation Data at Snake River Sites

Date	<u>Clrwr-Lewiston</u>			<u>Lower Granite</u>			<u>L. Granite Tlwr</u>			<u>Little Goose</u>			<u>L. Goose Tlwr</u>							
	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#					
	Avg	Avg		High	Avg		Avg	High		Avg	Avg		High	Avg		Avg	High			
6/30	103	105	107	24	104	104	105	24	112	113	115	24	112	112	112	24	114	115	116	24
7/1	103	106	107	24	103	103	104	24	112	113	115	24	110	111	112	24	114	114	115	24
7/2	104	106	108	24	101	101	101	24	110	110	110	12	111	112	113	24	114	114	115	24
7/3	104	106	108	24	102	103	104	24	114	114	115	13	113	113	114	24	115	115	115	24
7/4	103	106	108	24	104	105	105	24	111	112	114	24	113	113	114	24	114	114	115	24
7/5	104	105	107	24	105	105	106	24	113	114	115	24	112	112	113	24	117	119	141	24
7/6	103	104	106	24	103	103	103	24	114	115	115	24	110	110	111	24	113	113	114	24
7/7	103	106	107	24	101	101	101	24	111	113	115	24	108	109	109	24	113	114	114	24
7/8	104	107	109	24	100	100	101	24	110	110	112	24	108	108	109	24	113	114	115	24
7/9	105	107	109	24	101	101	102	24	113	114	115	24	108	108	109	24	115	115	116	24
7/10	105	107	109	24	102	103	103	24	111	113	115	24	109	109	110	24	114	114	115	24
7/11	105	108	109	24	103	104	105	24	113	114	115	24	109	110	110	24	114	115	116	24
7/12	104	106	107	25	103	103	104	25	111	113	115	25	107	108	109	25	113	114	114	25
7/13	105	107	109	24	102	102	103	24	113	114	115	24	106	107	107	24	112	113	114	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>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#				
	Avg	Avg		High	Avg		Avg	High		Avg	Avg		High	Avg	Avg	High
6/30	113	113	113	24	116	117	117	24	114	114	114	24	113	115	116	24
7/1	113	113	113	24	116	116	117	24	114	114	114	24	111	112	113	24
7/2	114	114	115	24	116	116	117	24	114	114	115	24	113	113	114	24
7/3	114	114	114	24	115	116	117	24	114	114	114	24	113	113	114	24
7/4	113	113	114	24	116	117	118	24	114	114	114	24	112	112	113	24
7/5	113	113	114	24	118	119	119	24	114	114	114	24	113	115	115	24
7/6	112	112	113	24	117	118	118	24	112	113	113	24	112	113	114	24
7/7	110	110	111	24	117	118	119	24	110	110	111	24	114	115	116	24
7/8	110	110	111	24	117	118	118	24	110	110	110	24	113	114	116	24
7/9	111	111	113	24	118	118	118	24	111	111	112	24	111	112	112	24
7/10	112	112	113	24	117	118	119	24	112	112	113	24	113	115	115	24
7/11	112	112	112	24	118	119	119	24	113	113	113	24	114	115	116	24
7/12	111	111	112	25	117	118	119	25	111	112	113	25	112	113	114	25
7/13	108	109	109	24	116	117	118	24	109	109	110	24	111	113	114	24

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

Total Dissolved Gas Saturation Data at Lower Columbia River Sites

Date	<u>McNary-Wash</u>			<u>McNary Tlwr</u>			<u>John Day</u>			<u>John Day Tlwr</u>			<u>The Dalles</u>							
	<u>24 h</u>		<u>12 h</u>	#	<u>24 h</u>		<u>12 h</u>	#	<u>24h</u>		<u>12h</u>	#	<u>24h</u>		<u>12h</u>	#				
	<u>Avg</u>	<u>Avg</u>	<u>High</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>		<u>Avg</u>	<u>AVG</u>	<u>High</u>		<u>hr</u>			
6/30	112	113	114	24	117	117	117	24	115	115	115	24	124	130	131	24	114	115	116	24
7/1	112	113	113	24	116	117	117	24	113	113	114	24	117	117	119	24	113	113	114	24
7/2	113	113	115	24	116	117	118	24	112	112	113	24	116	116	116	24	111	112	112	24
7/3	112	113	113	24	117	117	117	24	112	112	113	24	116	116	116	24	110	110	111	24
7/4	112	112	112	24	115	116	117	24	112	112	113	24	116	117	117	24	111	111	111	24
7/5	112	112	112	24	115	117	117	24	111	112	112	24	116	118	118	24	108	109	110	24
7/6	109	110	111	24	115	117	120	24	108	109	110	24	116	117	118	24	106	106	107	24
7/7	107	107	108	24	115	116	117	24	106	107	107	24	117	119	119	24	106	108	109	24
7/8	107	107	109	24	116	118	118	24	106	107	107	24	117	119	120	24	109	109	110	24
7/9	109	110	111	24	117	118	118	24	107	107	108	24	117	118	120	24	109	110	110	24
7/10	111	111	111	24	118	118	119	24	105	106	106	24	117	119	119	24	107	107	109	24
7/11	110	110	110	24	118	118	119	24	105	105	106	24	117	119	120	24	106	107	107	24
7/12	108	109	109	25	116	116	117	23	105	105	106	25	115	116	117	25	106	106	108	25
7/13	107	107	107	24	114	115	116	24	105	106	106	24	116	117	119	24	106	107	108	23

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>24 h</u>		<u>12 h</u>	#	<u>24h</u>		<u>12h</u>	#	<u>24h</u>		<u>12h</u>	#				
	<u>Avg</u>	<u>Avg</u>	<u>High</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>		<u>Avg</u>	<u>AVG</u>	<u>High</u>		<u>hr</u>			
6/30	118	118	118	24	114	115	115	24	115	116	116	23	112	114	115	24	116	116	117	17
7/1	117	117	118	24	114	115	115	24	116	116	117	23	113	114	115	24	118	118	118	17
7/2	116	116	117	24	113	113	113	24	115	115	116	23	113	114	115	24	116	116	116	17
7/3	116	116	116	24	110	110	111	24	114	114	114	24	112	112	113	24	116	116	116	24
7/4	116	116	116	24	108	108	109	24	113	113	114	23	110	111	112	24	116	116	117	17
7/5	115	115	115	24	106	107	108	24	114	115	116	23	109	110	112	24	116	117	117	17
7/6	113	113	114	24	104	104	105	24	112	113	113	23	109	110	111	24	116	116	117	17
7/7	114	114	115	24	105	106	106	24	113	115	117	23	109	112	114	24	116	116	119	17
7/8	115	116	116	24	109	111	112	24	114	115	117	23	110	112	114	23	117	117	119	17
7/9	115	116	116	24	112	112	113	24	116	116	118	23	112	114	116	24	117	117	118	17
7/10	114	114	114	24	109	110	111	24	114	116	118	23	111	112	114	24	116	116	120	17
7/11	114	114	114	24	108	108	108	24	114	116	118	23	111	112	115	24	117	117	120	17
7/12	113	113	114	25	107	107	108	25	114	116	119	23	109	111	113	25	116	116	120	18
7/13	113	114	114	23	107	108	109	24	116	117	119	15	111	114	116	24	116	116	119	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												
Date	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)	
06/30/2006	*	---	---	---	---	0	288	5	0	0	0	
07/01/2006	*	---	---	---	---	0	36	6	2	---	172	
07/02/2006		---	---	---	---	0	171	39	0	86	0	
07/03/2006	*	---	---	---	---	0	2,438	18	0	---	0	
07/04/2006	*	---	---	---	---	17	527	9	0	228	0	
07/05/2006	*	---	---	---	---	0	2	0	0	---	0	
07/06/2006	*	---	---	---	---	0	0	0	0	0	0	
07/07/2006		---	---	---	---	0	30	13	1	0	0	
07/08/2006		---	---	---	---	0	72	12	0	172	0	
07/09/2006	*	---	---	---	---	0	29	3	0	0	58	
07/10/2006		---	---	---	---	9	0	20	0	0	204	
07/11/2006		---	---	---	---	0	23	0	0	76	0	
07/12/2006		---	---	---	---	0	15	0	0	76	1	
07/13/2006	*	---	---	---	---	0	6	0	0	17	0	
07/14/2006		---	---	---	---	---	---	---	---	---	---	
<hr/>												
Total:		0	0	0	0	26	3,637	125	3	655	435	0
# Days:		0	0	0	0	14	14	14	14	11	14	14
Average:		0	0	0	0	2	260	9	0	60	31	0
YTD		30,897	25,174	13,056	19,187	3,692,688	4,182,386	1,439,168	37,264	1,560,546	2,250,283	2,256,332

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)	
06/30/2006	*	---	---	---	---	17,725	12,610	1,466	151	322,965	127,729	85,110
07/01/2006	*	---	---	---	---	19,155	24,098	1,884	156	---	193,157	70,780
07/02/2006		---	---	---	---	7,529	40,944	4,941	190	252,596	82,399	54,149
07/03/2006	*	---	---	---	---	10,168	60,099	4,694	137	---	64,411	62,147
07/04/2006	*	---	---	---	---	8,432	31,442	4,777	266	195,619	52,831	79,558
07/05/2006	*	---	---	---	---	16,216	22,645	2,564	528	---	57,146	67,991
07/06/2006	*	---	---	---	---	10,442	11,703	2,349	726	154,004	135,663	41,499
07/07/2006		---	---	---	---	4,406	8,429	1,920	1,359	472,197	86,919	58,563
07/08/2006		---	---	---	---	5,395	5,906	2,852	1,197	346,021	87,259	52,871
07/09/2006	*	---	---	---	---	3,624	5,526	3,415	1,693	110,586	116,913	47,348
07/10/2006		---	---	---	---	2,956	4,514	2,170	1,247	91,398	143,967	37,370
07/11/2006		---	---	---	---	2,023	4,205	918	1,088	76,018	96,340	48,017
07/12/2006		---	---	---	---	2,013	2,432	405	379	93,259	68,895	30,763
07/13/2006	*	---	---	---	---	1,353	1,409	487	213	121,155	55,962	28,727
07/14/2006		---	---	---	---	---	---	---	---	---	---	---
<hr/>												
Total:		0	0	0	0	111,437	235,962	34,842	9,330	2,235,818	1,369,591	764,893
# Days:		0	0	0	0	14	14	14	14	11	14	14
Average:		0	0	0	0	7,960	16,854	2,489	666	203,256	97,828	54,635
YTD		3	35	15	287	731,052	1,112,990	350,276	24,334	3,386,694	2,403,004	3,599,438

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)
06/30/2006	*	---	---	---	0	28	3	11	0	376	0
07/01/2006	*	---	---	---	0	0	0	13	---	344	193
07/02/2006		---	---	---	0	29	0	11	0	409	0
07/03/2006	*	---	---	---	0	0	6	3	---	0	0
07/04/2006	*	---	---	---	0	72	0	0	114	0	119
07/05/2006	*	---	---	---	18	0	0	7	---	20	0
07/06/2006	*	---	---	---	0	0	0	6	0	0	0
07/07/2006		---	---	---	0	0	3	7	0	0	0
07/08/2006		---	---	---	0	0	0	10	172	0	0
07/09/2006	*	---	---	---	0	0	0	9	0	0	0
07/10/2006		---	---	---	0	0	0	13	0	3	0
07/11/2006		---	---	---	0	0	0	9	0	0	0
07/12/2006		---	---	---	0	0	0	11	0	0	0
07/13/2006	*	---	---	---	0	0	0	12	0	0	0
07/14/2006		---	---	---	---	---	---	---	---	---	---
<hr/>											
Total:	0	0	0	0	18	129	12	122	286	1,152	312
# Days:	0	0	0	0	14	14	14	14	11	14	14
Average:	0	0	0	0	1	9	1	9	26	82	22
YTD	0	0	0	46	86,142	133,008	33,976	61,212	102,165	316,645	657,295

		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)
06/30/2006	*	---	---	---	15	80	38	8	0	0	0
07/01/2006	*	---	---	---	33	145	12	8	---	0	0
07/02/2006		---	---	---	32	143	27	3	0	0	0
07/03/2006	*	---	---	---	17	359	25	3	---	0	0
07/04/2006	*	---	---	---	17	72	18	6	0	0	0
07/05/2006	*	---	---	---	53	115	10	4	---	20	0
07/06/2006	*	---	---	---	67	0	0	10	0	0	411
07/07/2006		---	---	---	0	90	6	1	0	0	0
07/08/2006		---	---	---	0	29	12	5	0	0	0
07/09/2006	*	---	---	---	16	46	24	9	0	58	0
07/10/2006		---	---	---	26	23	7	4	0	3	209
07/11/2006		---	---	---	33	12	24	2	0	0	0
07/12/2006		---	---	---	0	7	0	0	0	0	0
07/13/2006	*	---	---	---	0	0	0	4	17	0	0
07/14/2006		---	---	---	---	---	---	---	---	---	---
<hr/>											
Total:	0	0	0	0	309	1,121	203	67	17	81	620
# Days:	0	0	0	0	14	14	14	14	11	14	14
Average:	0	0	0	0	22	80	15	5	2	6	44
YTD	1,970	19,998	9,317	3,066	4,483,390	4,375,962	1,265,377	26,898	446,124	1,682,235	271,622

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)	
06/30/2006	*	---	---	---	---	0	28	0	5	225	188	0
07/01/2006	*	---	---	---	---	0	0	6	14	---	0	0
07/02/2006		---	---	---	---	0	0	3	12	86	409	0
07/03/2006	*	---	---	---	---	0	0	6	17	---	144	178
07/04/2006	*	---	---	---	---	0	0	0	19	0	0	0
07/05/2006	*	---	---	---	---	0	0	0	21	---	102	0
07/06/2006	*	---	---	---	---	17	36	0	10	85	6	0
07/07/2006		---	---	---	---	0	0	0	29	0	0	0
07/08/2006		---	---	---	---	0	14	0	19	172	0	135
07/09/2006	*	---	---	---	---	0	0	0	30	98	58	0
07/10/2006		---	---	---	---	0	12	7	18	0	26	220
07/11/2006		---	---	---	---	0	0	6	14	0	179	0
07/12/2006		---	---	---	---	8	0	0	5	101	4	0
07/13/2006	*	---	---	---	---	0	12	0	0	0	0	0
07/14/2006		---	---	---	---	---	---	---	---	---	---	---
<hr/>												
Total:		0	0	0	0	25	102	28	213	767	1,116	533
# Days:		0	0	0	0	14	14	14	14	11	14	14
Average:		0	0	0	0	2	7	2	15	70	80	38
YTD		13	0	0	678	51,826	92,614	40,231	34,409	495,276	527,653	407,580

* 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:

7/14/06 9:18 AM

		06/30/06 TO 07/14/06					
		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	68,297	15	10	15	185	68,522
	Sum of NumberBarged	74,288	60	20	15	229	74,612
	Sum of NumberBypassed	180	0	0	0	0	180
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of SampleMorts	97	1	0	0	2	100
	Sum of FacilityMorts	385	4	0	0	12	401
	Sum of ResearchMorts	14	0	0	0	0	14
	Sum of TotalProjectMorts	496	5	0	0	14	515
LGS	Sum of NumberCollected	163,526	2,540	90	71	774	167,001
	Sum of NumberBarged	179,879	2,578	90	125	795	183,467
	Sum of NumberBypassed	27	1	0	0	0	28
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of SampleMorts	34	0	0	0	1	35
	Sum of FacilityMorts	525	1	0	3	10	539
	Sum of ResearchMorts	9	0	0	0	0	9
	Sum of TotalProjectMorts	568	1	0	3	11	583
LMN	Sum of NumberCollected	22,746	82	8	18	137	22,991
	Sum of NumberBarged	19,644	84	8	17	142	19,895
	Sum of NumberBypassed	3,231	4	0	0	1	3,236
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of SampleMorts	55	0	0	1	0	56
	Sum of FacilityMorts	104	2	0	0	2	108
	Sum of ResearchMorts	1	0	0	0	0	1
	Sum of TotalProjectMorts	160	2	0	1	2	165
MCN	Sum of NumberCollected	1,196,477	320	150	403	10	1,197,360
	Sum of NumberBarged	691,504	170	100	179	10	691,963
	Sum of NumberBypassed	500,777	150	50	223	0	501,200
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of SampleMorts	74	0	0	0	0	74
	Sum of FacilityMorts	4,068	0	0	0	0	4,068
	Sum of ResearchMorts	55	0	0	1	0	56
	Sum of TotalProjectMorts	4,197	0	0	1	0	4,198
Total Sum of NumberCollected		1,451,046	2,957	258	507	1,106	1,455,874
Total Sum of NumberBarged		965,315	2,892	218	336	1,176	969,937
Total Sum of NumberBypassed		504,215	155	50	223	1	504,644
Total Sum of Numbertrucked		0	0	0	0	0	0
Total Sum of SampleMorts		260	1	0	1	3	265
Total Sum of FacilityMorts		5,082	7	0	3	24	5,116
Total Sum of ResearchMorts		79	0	0	1	0	80
Total Sum of TotalProjectMorts		5,421	8	0	5	27	5,461

YTD Transportation Summary

Source: Fish Passage Center

Updated:

7/14/06 9:18 AM

TO: 07/14/06

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	470,351	2,407,703	51,160	32,595	2,820,577	5,782,386
	Sum of NumberBarged	450,643	1,964,107	46,802	25,770	2,467,161	4,954,483
	Sum of NumberBypassed	17,386	437,073	4,214	6,237	352,045	816,955
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	227	203	2	30	98	560
	Sum of FacilityMorts	1,231	6,009	140	557	1,216	9,153
	Sum of ResearchMorts	41	311	2	1	57	412
	Sum of TotalProjectMorts	1,499	6,523	144	588	1,371	10,125
LGS	Sum of NumberCollected	756,879	3,131,184	88,073	63,210	3,228,496	7,267,842
	Sum of NumberBarged	745,638	2,746,858	86,455	52,982	2,634,319	6,266,252
	Sum of NumberBypassed	4,255	376,348	1,524	8,895	591,417	982,439
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	118	136	0	23	19	296
	Sum of FacilityMorts	2,959	5,761	94	1,303	739	10,856
	Sum of ResearchMorts	23	22	0	0	1	46
	Sum of TotalProjectMorts	3,100	5,919	94	1,326	759	11,198
LMN	Sum of NumberCollected	245,045	1,096,095	23,183	27,779	935,510	2,327,612
	Sum of NumberBarged	238,182	1,060,659	23,024	27,010	883,848	2,232,723
	Sum of NumberBypassed	6,188	34,451	159	576	51,011	92,385
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	95	47	0	8	33	183
	Sum of FacilityMorts	300	938	0	185	618	2,041
	Sum of ResearchMorts	1	0	0	0	0	1
	Sum of TotalProjectMorts	396	985	0	193	651	2,225
MCN	Sum of NumberCollected	1,761,511	829,942	47,855	252,232	231,983	3,123,523
	Sum of NumberBarged	691,504	170	100	179	10	691,963
	Sum of NumberBypassed	1,065,112	828,856	47,736	251,660	231,814	2,425,178
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	214	116	1	28	13	372
	Sum of FacilityMorts	4,502	759	15	348	140	5,764
	Sum of ResearchMorts	180	41	3	17	6	247
	Sum of TotalProjectMorts	4,896	916	19	393	159	6,383
Total Sum of NumberCollected		3,233,786	7,464,924	210,271	375,816	7,216,566	18,501,363
Total Sum of NumberBarged		2,125,967	5,771,794	156,381	105,941	5,985,338	14,145,421
Total Sum of NumberBypassed		1,092,941	1,676,728	53,633	267,368	1,226,287	4,316,957
Total Sum of NumberTrucked		0	0	0	0	0	0
Total Sum of SampleMorts		654	502	3	89	163	1,411
Total Sum of FacilityMorts		8,992	13,467	249	2,393	2,713	27,814
Total Sum of ResearchMorts		245	374	5	18	64	706
Total Sum of TotalProjectMorts		9,891	14,343	257	2,500	2,940	29,931

Cumulative Adult Passage at Mainstem Dams Through: 07/13

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	07/13	96,456	2,908	74,038	4,288	151,682	8,418	86,898	3,299	67,594	3,615	51,623	6,052	0	0	0	0	0	0
TDA	07/13	61,827	2,176	60,964	3,210	104,618	6,110	70,902	2,698	58,683	2,742	43,648	4,136	0	0	0	0	0	0
JDA	07/13	50,313	2,093	56,027	2,715	87,807	4,857	63,062	2,722	53,340	3,869	40,230	3,914	0	0	0	0	0	0
MCN	07/12	45,355	2,475	51,855	3,201	80,814	5,125	51,931	2,287	51,896	2,103	37,369	3,514	0	0	0	0	0	0
IHR	07/12	25,465	843	28,039	1,267	54,334	3,256	7,921	456	8,084	840	10,292	1,663	0	0	0	0	0	0
LMN	07/11	23,596	551	25,933	1,002	51,936	3,032	8,489	323	7,327	618	9,499	1,328	0	0	0	0	0	0
LGS	07/12	20,839	745	23,995	923	49,856	3,088	5,904	408	6,127	715	8,200	1,537	0	0	0	0	0	0
LGR	07/12	22,963	984	26,028	1,258	49,902	3,362	5,787	486	5,835	792	8,211	1,592	0	0	0	0	0	0
PRD	07/09	8,535	81	14,148	515	16,757	523	36,382	119	39,423	1,324	22,795	848	0	0	0	0	0	0
RIS	07/12	9,245	473	11,908	504	13,259	737	38,887	705	33,319	1,347	20,629	1,774	0	0	0	0	0	0
RRH	07/12	5,376	274	4,568	417	4,860	283	21,657	529	21,542	976	12,078	884	0	0	0	0	0	0
WEL	07/09	4,043	214	4,897	99	3,488	193	7,654	224	9,888	88	5,223	168	0	0	0	0	0	0
WFA	06/26	32,598	163	33,298	1,111	3,283	86	0	0	0	0	0	0	0	0	0	0	0	0

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	1	0	35,646	68,633	57,557	22,780	30,639	35,295	8,502		
TDA	0	0	-1	0	0	0	28,764	61,149	47,906	9,140	15,819	16,463	3,744		
JDA	0	0	0	0	0	0	32,726	64,029	50,906	10,964	12,004	14,703	3,445		
MCN	0	0	0	0	0	0	27,178	56,942	42,482	6,307	8,274	8,318	1,812		
IHR	0	0	0	0	0	0	37	14	25	4,277	4,368	4,754	1,193		
LMN	0	0	0	0	0	0	11	16	25	4,400	3,737	3,868	1,290		
LGS	0	0	0	0	0	0	12	7	29	3,085	2,472	3,280	994		
LGR	0	0	0	0	0	0	6	15	27	7,975	6,195	7,271	2,398		
PRD	0	0	0	1	1	0	19,587	50,554	42,286	237	364	414	0		
RIS	0	0	2	0	1	0	24,123	47,148	36,691	182	420	375	114		
RRH	0	0	0	0	1	0	15,664	30,619	23,196	214	518	302	162		
WEL	0	0	0	0	0	0	5,060	12,444	14,727	73	107	60	38		
WFA	0	0	0	0	0	0	0	0	0	26,125	15,643	14,760	0		

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: 07/14/06

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
335