



Fish Passage Center Weekly Report #07 - 17

June 29, 2007

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Summary of Events:

Water Supply: Precipitation throughout the Columbia Basin has varied between 57% and 123% of average at individual sub-basins over June. Precipitation above The Dalles has been 100 % of average over June. Over the entire water year, precipitation has varied between 75% and 116% of average at individual sub-basins (Table 1).

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 2007 June 1-25		Water Year 2007 October 1, 2006 to June 25, 2007	
	Observed (inches)	% Average	Observed (inches)	% Average
	Columbia Above Coulee	2.15	108	21.98
SNAKE RIVER ABOVE ICE HARBOR	0.95	78	12.04	81
Columbia Above The Dalles	1.50	100	19.54	101
Kootenai	2.51	123	23.85	116
Clark Fork	1.63	101	14.74	106
Flathead	1.74	79	18.68	102
Pend Oreille/Spokane	1.63	89	25.04	93
Central Washington	0.39	73	7.23	92
SNAKE RIVER PLAIN	0.64	79	7.04	75
Salmon/Boise/ Payette	0.85	69	14.01	81
Clearwater	1.72	83	25.46	97
SW Washington Cascades/Cowlitz	1.41	57	63.74	98
Willamette Valley	1.15	61	56.36	102

Table 2 displays the May Final and July Early runoff volume forecasts for multiple reservoirs. Water Supply Forecasts at Libby Dam have increased 9% between the May final and July Early forecasts. Water Supply Forecasts at Lower Granite Dam and Brownlee Dam decreased by 7-8% between the May final and July Early forecasts. The current forecast at The Dalles between January and July is 95500 Kaf (89% of average).

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

Location	May Final		July Early	
	% Average (1971- 2000)	Probable Runoff Volume (Kaf)	% Average (1971- 2000)	Probable Runoff Volume (Kaf)
The Dalles (Jan-July)	92	99100	89	95500
Grand Coulee (Jan-July)	104	65300	102	64400
Libby Res. Inflow, MT (Jan-July)	108	6790	117	7370
Hungry Horse Res. Inflow, MT (Jan-July)	92	2050	88	1960
Lower Granite Res. Inflow (Apr- July)	66	14200	59	12800
Brownlee Res. Inflow (Apr-July)	48	3040	40	2550
Dworshak Res. Inflow (Apr-July), RFC Forecast	78	2060	70	1850
Dworshak Res. Inflow (Apr-July), COE Forecast	70 (May Final)	1868 (May Final)		

Grand Coulee Reservoir is at 1284.6 feet (6-28-07) and refilled 2.7 feet last week. Outflows at Grand Coulee ranged between 81.8 and 147.8 Kcfs last week.

Dworshak is currently at an elevation of 1599.6 feet (6-28-07) and drafted 0.3 feet last week. Outflows at Dworshak ranged between 3.6 and 4.3 Kcfs last week.

The Libby Reservoir is currently at elevation 2448.4 feet (6-28-07) and refilled 4.5 feet last week. Outflows at Libby are currently at 14.7 Kcfs and will remain at that level until a flat flow is agreed upon at TMT/IT for the remainder of July and August.

Hungry Horse is currently at an elevation of 3559.9 feet (6-28-07) and refilled 0.2 feet last week. Outflows at Hungry Horse are currently 4.3 Kcfs.

The Brownlee Reservoir was at an elevation of 2073.5 feet on June 28th, 2007, drafting 1.9 feet last week. Outflows at Brownlee Dam have been 8.2 to 16.4 Kcfs over the last week.

The Spring 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 April Final Water Supply Forecast, the flow objectives this spring were 85 Kcfs at Lower Granite, 237 Kcfs at McNary, and 135 Kcfs at Priest Rapids. The McNary Dam flow over the past week averaged 191.4 Kcfs and 240.6 Kcfs over the season. The Priest Rapids Dam flow over the past week averaged 145.1 Kcfs and 169.1 Kcfs over the season. The Spring Biological Opinion flow period will end on June 30th at both McNary and Priest Rapids Dams.

The spring Biological Opinion flow period at Lower Granite Dam ended on June 20th, 2007. Flows at Lower Granite Dam averaged 61.2 Kcfs over the spring season, well below the 85 Kcfs flow target. The summer Biological Opinion flow at Lower Granite Dam is determined by the June Final Water Supply Forecast and is 50 Kcfs this year. Flows at Lower Granite dam were 35.1 Kcfs over the last week and 35.4 Kcfs over the summer flow period.

Spill: The spring spill season ended at midnight on June 20, 2007 at the Snake River projects. In accordance with the Court Order, summer spill was initiated at the Snake River Projects at 0001 hours on June 21, 2007. The Court Order calls for the following spill levels at the Federal Snake River Projects:

Project	Day/Night Spill
Lower Granite	18Kcfs/18Kcfs
Little Goose	30%/30%
Lower Monumental	17Kcfs/17Kcfs
Ice Harbor	30%/30% vs 45Kcfs/Gas Cap Study

Spill at Lower Granite Dam over the past week was near the summer spill level of 18 Kcfs as per the Court Order. Little Goose Dam has met the Court Order over most of the past week, which remains at the same 30% of instantaneous flow as was required during the spring spill period.

According to the Court Order, summer spill at Lower Monumental Dam of 17 Kcfs spill for 24 hours daily began on June 21. At times since June 21 spill was less than 17 Kcfs, since flow during some periods of the day was too low to operate one turbine unit and provide the full amount of spill.

Ice Harbor spill is being provided to achieve the study conditions specified in the Court's Order.

Court ordered spring spill at the lower Columbia projects began on April 10, 2007 and continues through June 30th, except at McNary and Bonneville dams. The Court Order calls for the following spill levels at the Federal Lower Columbia River Projects:

Project	Day/Night Spill
McNary	40%/40% vs 60%/60%
John Day	0/60%
The Dalles	40%/40%
Bonneville	85Kcfs/gas cap until July 15 75Kcfs/gas cap July 16-Aug31

Spill at McNary Dam is supposed to be 40% of instantaneous flow throughout the spring spill period and change to summer spill (alternating 60% of instantaneous flow and 40% of instantaneous flow in 2 day blocks) on July 1. However, to accommodate research the Action Agencies implemented summer spill operations at McNary Dam on June 20th resulting in an additional 5 days of the higher 60% spill level during the spring period. Both John Day and The Dalles dams have met the Court's Order over the past week.

On June 20th the summer spill program was initiated at Bonneville Dam for research purposes. Spill is 85-87Kcfs during daytime hours and gas cap spill at night, which will be implemented until July 15. After July 15 the project will revert to the Court's Order of 75 Kcfs during daytime hours and gas cap spill at night.

Total dissolved gas waivers were not exceeded at the federal hydroprojects throughout the past week, except for the 6/22 and 6/23 at the forebay of Ice Harbor Dam and at the Camas/Washougal Station on 6/25, 6/27 and 6/28. Gas bubble trauma (GBT) monitoring continued this week at Little Goose, Lower Monumental, McNary and Bonneville dams. A few fish (2.94%) were observed with signs of GBT at Little Goose Dam.

Smolt Monitoring: Subyearling Chinook now predominate at the Snake River SMP sites as well as at the Columbia River sites. Subyearling were relatively steady at Snake River sites over the past week, while at all Columbia River SMP sites, indices were up substantially, especially at McNary Dam, where indices rose to over 300,000 this week.

At Lower Granite Dam, there was a slight increase in the average subyearling passage index, with the average this week at 5,000 per day compared to 4,200 per day last week. Indices of subyearling Chinook increased at Little Goose and Lower Monumental dams as well this past week. Based on seasonal estimates of detection probability, the estimated total population index (as opposed to the passage index) for subyearling Chinook passing the Snake projects was 980,000 at Lower Granite.

At Rock Island Dam, the numbers of all spring migrants have continued to decrease, while the subyearling index was up slightly this past week, averaging 114 per day this week compared to 72 per day last week.

In the Lower Columbia, at McNary Dam, numbers of subyearling Chinook were up again this week, with the index averaging 255,000 this week compared to 48,000 last week. The last date sampled at McNary was June 28, on that date the index reached a season high 366,000. While at John Day Dam, the weekly average subyearling index rose to 29,000 compared to 12,000 last week. At Bonneville Dam indices subyearling Chinook also continued to increase over the past week. The index averaged 22,000 this week compared to 15,000 per day last week.

Adult Fish Passage Report: The summer Chinook count began June 1st at Bonneville Dam. Daily passage numbers at Bonneville Dam have ranged between 967 and 1,376 adult summer Chinook in the last week. The 2007 summer Chinook count of 29,459 is about 70.5 percent of the 10-year average count and 45.5 percent of the 2006 count. The summer Chinook jack count of 7,924 at Bonneville Dam is presently 3.7 times greater than observed in 2006, and 1.9 times greater than the 10-year average count to date. The adult summer Chinook count total at The Dalles Dam was 23,248 through June 28th, about 78.9 percent of the Bonneville passage total to date. A total of 15,016 summer Chinook have passed McNary Dam. The adult summer Chinook count total at Lower Granite Dam in the Snake River, was 3,693 through of June 28th. The 2007 adult summer Chinook count at Rock Island Dam in the upper Columbia River was 4,031 with daily totals ranging from 105 to 832.

As of June 28th, 8,992 steelhead had passed Bonneville Dam which was 220 fewer than the 2006 count. The 2007 Bonneville steelhead count was about 61.8 percent of the 10-year average. The daily steelhead counts at The Dalles Dam ranged between 73 and 165 for the week with the cumulative count of 3,039. About 33.7 percent of the steelhead counted at Bonneville have

passed The Dalles Dam. The majority of the 3,145 steelhead counted at McNary Dam have moved up into the Snake River with the cumulative count at Ice Harbor now at 3,006 for the season. The cumulative count at Priest Rapids was at 72 for the season.

As of June 28th, 2,418,853 adult Shad were counted at Bonneville Dam this season with daily counts ranging from 19,980 to 89,609. Adult sockeye counts increased at Bonneville with the count through June 28th at 17,221. This year's sockeye count is about 70.7 percent of the 2006 count and 42.1 percent of the 10-year average count. About 2,536 of the adult sockeye have been counted at Priest Rapids Dam. Two of the major spawning sites for sockeye are Lake Wenatchee and Lake Ososyoos (Okanogan basin). To date, only 13 sockeye have been counted at Ice Harbor Dam in the Snake River.

Hatchery Release:

Snake River Zone: The Snake River Zone encompasses the Snake River and its tributaries from its confluence with the Columbia River to Hells Canyon Dam. There were no scheduled releases of juvenile salmonids into this zone this week.

Approximately 304,000 spring Chinook parr are scheduled for release into the Selway River on July 1st. However, these parr are not expected to out-migrate until 2008. There are no other releases scheduled for this zone over the next two weeks.

Mid-Columbia Zone: The Mid-Columbia Zone encompasses the area of the Columbia River and its tributaries from McNary Dam to Chief Joseph Dam. There were no scheduled releases of juvenile salmonids into this zone this week.

Approximately 860,000 subyearling summer Chinook are scheduled for release into the Mid-Columbia River on July 2nd from Turtle Rock Hatchery. There are no other releases scheduled for this zone over the next two weeks.

Lower Columbia Zone: The Lower Columbia Zone is defined as the Columbia River and its tributaries from Bonneville Dam to McNary Dam. Approximately 2.16 million subyearling fall Chinook

were scheduled for release into the Klickitat River from Klickitat Hatchery, beginning June 25th. In addition to this release, just over 2.06 million upriver bright fall Chinook were released into the Little White Salmon River on June 28th. These fall Chinook were released from the Little White Salmon NFH. There were no other scheduled releases of juvenile salmonids into this zone over the past week.

There are no releases of juvenile salmonids scheduled for this zone over the next two weeks.

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
06/15/07	164.2	0.2	172.6	0.0	183.1	23.6	173.3	23.7	174.8	33.1	184.5	45.3	174.1	23.0
06/16/07	143.4	0.1	142.1	0.0	158.8	11.4	163.9	17.4	170.6	30.4	183.6	40.5	186.6	24.6
06/17/07	102.8	0.1	107.5	0.0	131.0	9.6	135.6	11.1	142.9	25.5	157.9	12.2	165.9	19.1
06/18/07	134.8	0.1	140.1	0.0	143.3	10.0	131.2	14.5	135.9	33.7	158.1	18.5	153.6	18.5
06/19/07	152.2	0.1	147.1	0.0	164.3	10.0	162.7	14.6	166.4	32.9	151.6	11.8	144.6	19.4
06/20/07	149.6	0.1	151.0	0.0	164.0	10.3	159.8	13.8	164.2	30.0	172.4	28.9	162.7	22.4
06/21/07	150.4	0.1	150.9	0.0	165.2	12.1	161.3	14.4	164.9	32.0	175.0	33.1	169.3	25.8
06/22/07	123.6	0.1	125.9	0.0	147.8	9.2	153.7	13.1	160.5	29.4	171.1	28.1	172.4	23.5
06/23/07	106.0	0.1	103.1	0.0	120.4	7.9	123.8	12.1	133.2	27.0	153.7	11.0	154.8	20.4
06/24/07	81.8	0.1	83.2	0.0	103.5	7.9	102.2	10.5	105.7	23.3	133.4	8.1	134.4	20.1
06/25/07	130.5	0.2	132.0	0.0	140.4	10.0	135.1	14.2	139.1	32.8	137.4	7.4	133.7	19.4
06/26/07	147.8	0.1	148.3	0.0	143.3	16.3	133.6	11.5	138.0	28.2	138.8	8.4	136.8	15.2
06/27/07	135.7	0.2	134.1	0.0	147.0	8.4	149.7	12.2	157.2	27.8	145.6	17.4	147.7	20.6
06/28/07	141.1	0.2	135.7	0.0	147.1	8.7	139.9	11.2	142.8	27.9	145.7	9.6	135.7	20.9

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

Date	Dworshak		Brownlee Canyon		Hells Granite		Lower Granite		Little Goose		Lower Monumental		Ice Harbor	
	Flow	Spill	Inflow	Outflow	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill
06/15/07	4.3	0.0	12.0	11.6	47.5	19.8	48.1	14.5	47.7	22.6	47.8	33.8		
06/16/07	4.3	0.0	11.0	11.2	46.0	19.9	44.4	13.3	42.5	22.9	44.0	33.5		
06/17/07	4.3	0.0	10.0	8.4	45.7	19.9	46.1	13.8	45.2	22.0	47.0	36.0		
06/18/07	4.3	0.0	9.9	7.9	40.7	19.8	40.7	12.2	39.4	23.1	40.7	30.4		
06/19/07	4.7	0.0	10.2	11.5	37.5	19.9	38.1	11.3	35.0	22.3	37.1	17.3		
06/20/07	4.3	0.0	---	---	42.9	19.9	43.3	13.0	43.1	23.0	42.7	15.6		
06/21/07	5.0	0.0	9.7	14.2	37.4	18.1	34.4	10.3	33.4	16.5	32.6	22.0		
06/22/07	4.3	0.0	8.5	13.1	41.5	18.2	43.4	13.0	44.8	17.1	45.2	35.0		
06/23/07	4.3	0.0	8.5	13.3	39.9	18.0	39.0	11.9	37.9	16.6	37.5	17.3		
06/24/07	4.3	0.0	8.7	9.4	35.3	18.2	35.4	10.7	33.9	17.1	34.1	15.2		
06/25/07	4.1	0.0	9.1	8.4	33.6	18.1	34.2	10.6	34.4	16.3	33.0	15.2		
06/26/07	3.6	0.0	8.7	10.1	31.4	17.7	31.8	9.7	28.8	15.9	30.6	15.3		
06/27/07	3.8	0.0	10.7	12.6	30.8	18.3	30.7	9.3	29.7	16.7	30.1	20.1		
06/28/07	4.3	0.0	---	---	33.0	18.1	32.9	9.9	32.9	17.1	31.6	21.8		

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		
06/15/07	233.8	93.8	224.2	53.1	230.7	92.2	237.2	99.2	19.5	107.0
06/16/07	247.2	99.0	214.2	49.8	201.4	80.8	214.7	98.4	6.9	97.9
06/17/07	196.5	78.9	180.0	51.8	177.7	71.2	194.4	98.3	0.0	84.5
06/18/07	221.9	88.8	222.3	57.1	223.2	89.2	221.2	98.2	12.7	98.8
06/19/07	222.4	89.0	219.5	55.9	219.1	87.0	229.4	98.2	15.2	104.5
06/20/07	206.6	82.8	188.6	48.9	185.8	74.6	201.3	102.8	4.3	82.7
06/21/07	201.0	80.5	177.7	45.5	169.1	67.1	194.8	92.3	0.0	91.0
06/22/07	200.2	109.6	192.2	44.6	194.1	77.3	210.2	91.7	4.9	102.1
06/23/07	215.4	125.9	196.5	48.5	191.5	76.5	209.6	91.3	5.2	101.7
06/24/07	183.3	82.7	161.2	41.6	162.0	65.4	184.5	78.8	8.2	85.9
06/25/07	185.2	73.8	192.7	48.2	187.3	74.7	166.8	92.3	0.0	63.1
06/26/07	196.9	106.5	189.4	48.4	187.6	75.0	191.3	94.2	3.8	81.8
06/27/07	172.9	103.6	165.3	43.9	163.7	65.7	176.6	93.3	0.0	71.9
06/28/07	186.0	83.5	163.9	42.9	160.9	64.5	170.0	93.5	0.0	65.0

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											
	06/19/07	Chinook + Steelhead	78	36	36	46.15%	0.00%	25	11	0	0
	06/26/07	Chinook + Steelhead	102	4	3	2.94%	0.00%	2	1	0	0
Lower Monumental Dam											
	06/25/07	Chinook + Steelhead	1	0	0	0.00%	0.00%	0	0	0	0
McNary Dam											
	06/17/07	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	06/21/07	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	06/25/07	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
Bonneville Dam											
	06/23/07	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	06/26/07	Chinook + Steelhead	100	1	1	1.00%	0.00%	1	0	0	0

HATCHERY RELEASE LAST TWO WEEKS

Hatchery Release Summary									
From:	6/15/2007		to		06/28/07				
Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
U.S. Fish and Wildlife Service	Little White Salmon NFH	CH0	FA	2007	2,061,924	06-28-07	06-28-07	Little White Salmon River	Little White Salmon River
U.S. Fish and Wildlife Service Total					2,061,924				
Washington Dept. of Fish and Wildlife	Priest Rapids Hatchery	CH0	FA	2007	6,700,000	06-13-07	06-21-07	Priest Rapids Hatchery	Mid-Columbia River
Washington Dept. of Fish and Wildlife	Ringold Springs Hatchery	CH0	FA	2007	3,450,000	06-14-07	06-22-07	Ringold Springs Hatchery	Mid-Columbia River
Washington Dept. of Fish and Wildlife Total					10,150,000				
Yakama Tribe	Klickitat Hatchery	CH0	FA	2007	2,159,500	06-25-07	06-29-07	Klickitat Hatchery	Klickitat River
Yakama Tribe Total					2,159,500				
Grand Total					14,371,424				

HATCHERY RELEASE NEXT TWO WEEKS

Hatchery Release Summary									
From:	6/29/2007		to		7/12/2007				
Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
Nez Perce Tribe	Clearwater Hatchery	CH0	SP	2008	304,000	07-01-07	07-01-07	Selway River	Clearwater River M F
Nez Perce Tribe Total					304,000				
Washington Dept. of Fish and Wildlife	Turtle Rock Hatchery	CH0	SU	2007	410,000	07-02-07	07-06-07	Turtle Rock Hatchery	Mid-Columbia River
Washington Dept. of Fish and Wildlife	Turtle Rock Hatchery	CH0	SU	2007	450,000	07-02-07	07-06-07	Turtle Rock Hatchery	Mid-Columbia River
Washington Dept. of Fish and Wildlife Total					860,000				
Yakama Tribe	Klickitat Hatchery	CH0	FA	2007	2,159,500	06-25-07	06-29-07	Klickitat Hatchery	Klickitat River
Yakama Tribe Total					2,159,500				
Grand Total					3,323,500				

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

Total Dissolved Gas Saturation Data at Upper Columbia River Sites

Date	<u>Hungry H. Dnst</u>			<u>Boundary</u>			<u>Grand Coulee</u>			<u>Grand C. Tlwr</u>			<u>Chief Joseph</u>							
	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>					
	<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>	<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>	<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>	<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>				
6/15	105	105	106	24	117	119	119	24	114	114	114	24	111	112	112	24	111	111	112	24
6/16	105	106	106	24	117	119	119	24	114	114	114	24	111	112	112	24	111	112	112	24
6/17	105	105	106	24	115	116	117	24	113	114	114	24	110	111	111	24	111	111	112	24
6/18	104	104	105	24	116	117	118	24	113	113	114	24	110	111	112	23	111	111	112	24
6/19	104	105	105	24	116	118	120	24	113	113	114	24	110	111	112	24	111	112	112	24
6/20	105	106	106	24	117	120	121	24	113	113	113	24	111	111	112	24	112	112	112	24
6/21	105	106	106	24	116	119	122	24	113	113	113	24	110	111	112	24	111	111	112	24
6/22	105	106	106	24	117	120	121	24	112	113	113	24	110	111	111	24	111	111	111	24
6/23	106	106	106	24	117	119	120	24	113	113	113	24	110	110	111	24	111	111	111	24
6/24	106	106	106	24	119	121	122	24	112	113	113	24	110	111	112	24	110	111	112	24
6/25	105	105	105	24	116	117	118	24	112	112	113	24	109	110	111	24	110	110	110	24
6/26	104	105	105	24	116	117	120	24	112	112	113	24	110	110	111	24	110	111	112	24
6/27	105	106	106	24	115	116	117	24	113	113	114	24	110	111	112	24	111	111	111	24
6/28	106	106	107	24	115	116	117	24	113	114	114	24	111	112	113	24	111	111	112	24

Total Dissolved Gas Saturation Data at Mid Columbia River Sites

Date	<u>Chief J. Dnst</u>			<u>Wells</u>			<u>Wells Dwnstrm</u>			<u>Rocky Reach</u>			<u>Rocky R. Tlwr</u>							
	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>					
	<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>	<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>	<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>	<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>				
6/15	110	111	111	24	110	110	111	24	114	115	117	24	109	110	110	24	111	111	113	24
6/16	111	111	111	24	109	110	110	24	112	112	115	24	111	112	113	24	112	113	115	24
6/17	111	111	112	24	110	110	111	24	111	112	112	24	111	112	113	24	112	113	114	24
6/18	110	111	111	24	109	110	110	24	110	111	112	24	109	109	110	24	110	110	111	24
6/19	111	111	112	24	110	111	111	24	112	113	113	24	110	110	110	24	110	111	111	24
6/20	111	111	112	24	111	111	112	24	113	114	114	24	110	111	112	24	111	112	112	24
6/21	111	111	112	24	110	111	111	24	113	113	114	24	111	112	112	24	112	112	113	24
6/22	110	111	111	24	109	110	110	24	111	112	113	24	111	111	112	24	112	112	113	24
6/23	111	111	113	24	109	109	110	24	110	111	111	24	110	110	111	24	111	111	112	24
6/24	111	111	112	24	108	109	110	24	110	111	112	24	109	109	110	24	110	110	110	24
6/25	110	110	111	24	108	108	108	24	109	110	110	24	108	108	109	24	109	109	109	24
6/26	110	110	111	24	109	110	110	24	112	114	118	24	108	109	109	24	109	110	110	24
6/27	110	111	112	24	111	111	111	24	113	113	115	24	110	111	112	24	111	112	112	24
6/28	111	111	112	24	111	111	111	23	112	113	113	23	112	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>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>					
	<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>	<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>	<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>	<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>				
6/15	110	111	112	24	115	116	117	24	110	111	112	24	116	118	120	24	114	114	116	24
6/16	112	113	114	24	116	117	117	24	109	110	111	24	114	115	119	24	115	116	117	24
6/17	112	112	113	24	116	117	117	24	107	107	109	24	110	111	112	24	110	110	111	24
6/18	110	111	111	24	115	116	119	24	107	107	108	24	111	112	114	24	109	111	112	24
6/19	111	112	112	24	115	116	117	24	111	113	115	24	114	115	116	24	112	114	115	24
6/20	111	112	113	24	116	117	118	24	111	112	114	24	116	118	121	22	114	116	117	24
6/21	112	112	113	24	117	117	118	24	110	110	111	24	115	117	119	24	114	115	116	24
6/22	112	112	113	24	116	117	117	24	110	111	112	24	114	116	118	24	114	116	117	24
6/23	111	111	112	24	115	116	117	24	109	110	111	24	113	114	116	24	112	114	114	24
6/24	110	111	111	24	115	116	116	24	108	108	110	24	112	113	115	24	111	112	113	24
6/25	109	110	110	24	114	115	116	24	108	109	110	24	111	112	114	24	110	111	112	24
6/26	109	110	111	24	113	114	115	24	109	111	112	24	112	113	115	24	111	113	114	24
6/27	110	111	111	24	115	116	116	24	111	112	113	24	114	115	116	24	112	113	116	24
6/28	112	114	115	24	117	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>Clrwtr-Peck</u>				<u>Anatone</u>			
	<u>24 h</u>		<u>12 h</u>		#	<u>24 h</u>		<u>12 h</u>		#	<u>24 h</u>		<u>12 h</u>		#	<u>24 h</u>		<u>12 h</u>		#
	Avg	Avg	High	hr		Avg	Avg	High	hr		Avg	Avg	High	hr		Avg	Avg	High	hr	
6/15	115	116	118	24	110	111	112	24	100	100	101	24	102	103	103	24	103	104	105	24
6/16	116	118	118	24	110	111	112	24	100	101	101	24	102	102	103	24	103	104	104	24
6/17	112	112	113	24	109	109	110	24	100	100	100	24	100	101	101	24	102	103	104	24
6/18	111	113	114	24	108	109	110	24	100	101	101	24	101	103	104	24	103	104	105	24
6/19	113	115	116	24	109	111	112	24	101	102	105	24	102	103	105	24	103	104	105	24
6/20	116	117	118	24	111	112	113	24	100	101	102	24	102	103	104	24	103	104	105	24
6/21	116	117	117	24	111	112	113	24	100	101	104	24	102	103	106	24	103	104	105	24
6/22	116	117	118	24	111	112	113	24	100	100	101	24	102	103	104	24	103	104	105	24
6/23	114	115	116	24	110	111	112	24	100	100	101	24	102	103	104	24	102	104	105	24
6/24	113	114	115	24	109	110	110	24	100	100	101	24	102	103	104	24	102	103	104	24
6/25	112	113	114	24	107	108	109	24	99	99	100	24	101	102	103	24	102	103	104	24
6/26	113	113	114	24	109	110	111	24	99	100	100	20	101	103	104	24	103	104	105	24
6/27	114	115	116	24	110	110	111	24	100	100	101	24	101	103	104	24	103	104	105	24
6/28	---	---	---	0	110	111	112	24	100	101	101	24	101	103	103	24	103	104	105	24

Total Dissolved Gas Saturation Data at Snake River Sites

Date	<u>Clrwtr-Lewiston</u>				<u>Lower Granite</u>				<u>L. Granite Tlwr</u>				<u>Little Goose</u>				<u>L. Goose Tlwr</u>			
	<u>24 h</u>		<u>12 h</u>		#	<u>24 h</u>		<u>12 h</u>		#	<u>24 h</u>		<u>12 h</u>		#	<u>24 h</u>		<u>12 h</u>		#
	Avg	Avg	High	hr		Avg	Avg	High	hr		Avg	Avg	High	hr		Avg	Avg	High	hr	
6/15	102	104	105	24	104	104	105	24	114	115	115	24	109	110	110	24	110	110	111	24
6/16	102	103	103	24	103	103	103	24	113	114	116	24	109	110	110	24	109	109	110	24
6/17	100	101	102	24	102	103	103	24	112	113	113	24	109	109	109	24	109	109	110	24
6/18	102	104	106	24	103	103	103	24	115	115	116	24	109	109	110	24	109	109	109	24
6/19	103	105	106	24	103	103	103	24	115	116	116	24	109	110	110	24	109	109	110	24
6/20	103	105	106	24	102	102	102	24	113	114	115	24	110	110	110	24	109	110	111	24
6/21	103	105	106	24	101	101	102	24	111	112	112	24	109	109	110	24	108	109	109	24
6/22	103	105	106	24	102	102	103	24	114	115	115	24	110	111	112	24	109	110	110	24
6/23	102	104	106	24	103	103	104	24	112	113	115	24	111	111	112	24	108	109	110	24
6/24	102	103	105	24	103	104	105	24	114	115	116	24	111	111	111	24	108	109	109	24
6/25	102	104	105	24	102	102	103	24	113	114	115	24	109	109	110	24	108	108	109	24
6/26	103	105	106	24	102	102	103	24	114	115	116	24	108	109	110	24	107	108	108	24
6/27	103	105	106	24	101	101	102	24	116	116	116	24	109	110	110	24	108	108	109	24
6/28	103	106	107	24	100	100	101	24	113	114	116	24	108	109	109	24	108	108	108	24

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

Date	<u>Lower Mon.</u>				<u>L. Mon. Tlwr</u>				<u>Ice Harbor</u>				<u>Ice Harbor Tlwr</u>				<u>McNary-Oregon</u>			
	<u>24 h</u>		<u>12 h</u>		#	<u>24 h</u>		<u>12 h</u>		#	<u>24 h</u>		<u>12 h</u>		#	<u>24 h</u>		<u>12 h</u>		#
	Avg	Avg	High	hr		Avg	Avg	High	hr		Avg	Avg	High	hr		Avg	Avg	High	hr	
6/15	110	110	110	24	117	119	121	24	114	114	115	24	113	114	115	24	---	---	---	0
6/16	109	109	110	24	115	116	118	24	114	114	114	24	113	114	115	24	---	---	---	0
6/17	109	109	110	24	114	115	118	24	114	114	114	24	114	115	115	24	---	---	---	0
6/18	109	109	109	24	116	117	119	24	113	114	114	24	114	115	116	24	---	---	---	0
6/19	108	108	109	24	116	117	118	24	113	113	113	23	112	113	114	24	---	---	---	0
6/20	108	109	111	24	116	117	119	24	113	113	115	24	112	113	115	24	---	---	---	0
6/21	108	109	109	24	114	115	118	24	113	113	114	24	112	114	114	24	---	---	---	0
6/22	108	108	109	24	112	112	113	24	115	116	116	24	113	114	114	24	---	---	---	0
6/23	109	109	110	24	114	114	116	24	116	116	117	24	113	113	114	24	---	---	---	0
6/24	108	109	109	24	114	114	114	24	114	115	116	24	111	112	112	24	---	---	---	0
6/25	106	107	108	24	113	114	116	24	111	112	113	24	111	111	112	24	---	---	---	0
6/26	107	107	108	24	115	117	117	24	110	111	111	24	111	111	112	24	---	---	---	0
6/27	108	108	109	24	114	114	115	24	111	111	111	24	112	114	115	24	---	---	---	0
6/28	107	108	108	24	114	114	115	24	111	111	111	24	113	114	114	24	---	---	---	0

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

Total Dissolved Gas Saturation Data at Lower Columbia River Sites

Date	<u>McNary-Wash</u>				<u>McNary Tlwr</u>				<u>John Day</u>				<u>John Day Tlwr</u>				<u>The Dalles</u>			
	<u>24 h</u>		<u>12 h</u>		#	<u>24 h</u>		<u>12 h</u>		#	<u>24h</u>		<u>12h</u>		#	<u>24h</u>		<u>12h</u>		#
	Avg	Avg	High	hr		Avg	Avg	High	hr		Avg	Avg	High	hr		Avg	AVG	High	hr	
6/15	111	111	112	24	115	115	118	24	107	107	108	24	111	117	118	24	109	112	114	24
6/16	112	112	112	24	114	115	115	24	108	108	109	24	111	116	117	24	108	110	111	24
6/17	109	109	110	24	116	118	118	24	107	108	108	24	111	115	116	24	107	109	110	24
6/18	108	109	110	24	114	115	115	24	106	107	107	24	111	116	118	24	108	110	111	24
6/19	110	111	112	24	115	116	118	23	107	108	109	24	112	116	117	24	109	113	116	24
6/20	111	112	114	24	116	117	118	24	108	108	109	24	112	116	118	24	110	113	115	24
6/21	111	111	112	24	115	117	119	24	106	107	107	24	112	117	118	24	109	111	112	24
6/22	111	111	112	24	117	117	118	24	106	107	107	24	111	116	118	24	109	111	112	24
6/23	110	110	111	24	116	116	117	24	108	108	109	24	112	117	118	24	109	111	114	24
6/24	110	110	111	24	117	118	119	24	107	108	108	24	112	117	119	24	109	110	112	24
6/25	108	108	109	24	117	118	118	24	106	107	107	24	111	117	118	24	109	112	114	24
6/26	110	111	112	24	116	117	118	24	108	109	110	24	112	117	118	24	110	113	116	24
6/27	109	110	111	24	114	115	116	24	107	107	108	24	112	117	118	24	109	112	115	24
6/28	111	112	112	24	115	116	118	24	106	107	107	24	112	117	118	24	110	112	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>24 h</u>		<u>12 h</u>		#	<u>24h</u>		<u>12h</u>		#	<u>24h</u>		<u>12h</u>		#
	Avg	Avg	High	hr		Avg	Avg	High	hr		Avg	Avg	High	hr		Avg	AVG	High	hr	
6/15	115	117	118	24	111	111	112	24	---	---	---	0	112	113	114	24	117	118	118	24
6/16	113	115	116	24	111	112	113	24	---	---	---	0	111	112	113	24	117	117	118	24
6/17	112	113	114	24	108	109	109	24	---	---	---	0	111	112	113	24	116	117	117	24
6/18	113	114	115	24	107	108	109	24	---	---	---	0	112	113	113	24	117	117	118	24
6/19	114	116	118	24	110	111	112	24	---	---	---	0	112	114	115	24	117	118	118	24
6/20	115	116	117	24	112	113	113	24	---	---	---	0	114	115	116	24	117	117	118	24
6/21	115	115	117	24	110	112	112	24	---	---	---	0	114	116	117	24	115	116	117	24
6/22	114	115	116	24	109	110	111	24	---	---	---	0	112	113	115	24	116	116	118	24
6/23	114	114	116	24	110	110	111	24	---	---	---	0	112	114	116	24	116	117	118	24
6/24	113	114	116	24	109	110	111	24	---	---	---	0	111	113	114	24	115	116	117	24
6/25	114	114	116	24	109	111	112	24	---	---	---	0	112	116	117	24	115	116	117	24
6/26	115	116	118	24	110	112	113	24	---	---	---	0	113	114	115	24	116	117	118	24
6/27	115	116	118	24	112	113	113	24	---	---	---	0	113	116	117	24	116	116	117	24
6/28	115	115	116	24	111	111	112	24	---	---	---	0	115	116	117	24	115	116	117	24

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)	
06/15/2007	*	---	19	---	---	193	82	0	9	---	3,296	1,385
06/16/2007		---	18	---	---	34	40	8	2	3,248	2,023	1,607
06/17/2007	*	---	16	---	---	55	215	12	7	---	2,900	740
06/18/2007		---	32	---	---	45	287	4	7	2,396	2,190	1,050
06/19/2007	*	---	19	---	---	59	122	3	2	---	975	978
06/20/2007	*	---	17	---	---	32	89	0	5	1,314	1,102	575
06/21/2007	*	---	24	---	---	9	72	2	3	---	1,096	462
06/22/2007		---	---	---	---	0	86	8	1	2,509	813	568
06/23/2007	*	---	---	---	---	27	14	4	0	---	604	623
06/24/2007		---	---	---	---	9	14	0	0	0	660	435
06/25/2007	*	---	---	---	---	21	12	4	0	---	544	469
06/26/2007		---	---	---	---	0	0	2	3	429	411	245
06/27/2007	*	---	---	---	---	0	16	0	3	---	406	141
06/28/2007	*	---	---	---	---	0	14	0	2	507	450	170
06/29/2007		---	---	---	---	---	---	---	---	---	---	---
<hr/>												
Total:	0	145	0	0	484	1,063	47	44	10,403	17,470	9,448	
# Days:	0	7	0	0	14	14	14	14	7	14	14	
Average:	0	21	0	0	35	76	3	3	1,486	1,248	675	
YTD	43,491	86,948	15,108	6,553	2,247,413	655,046	355,415	23,727	2,224,039	4,260,274	1,948,707	

COMBINED SUBYEARLING CHINOOK												
	WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2	
Date	(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	
06/15/2007	*	---	4	---	---	4,253	9,428	764	23	---	11,573	11,489
06/16/2007		---	2	---	---	3,636	4,670	652	32	55,637	11,270	14,331
06/17/2007	*	---	1	---	---	4,465	8,976	460	53	---	18,942	13,353
06/18/2007		---	0	---	---	5,232	12,424	294	48	38,027	12,855	12,971
06/19/2007	*	---	0	---	---	3,923	4,450	207	57	---	10,985	16,835
06/20/2007	*	---	1	---	---	4,377	3,821	470	187	50,928	9,410	16,664
06/21/2007	*	---	1	---	---	3,905	6,163	1,001	104	---	7,019	17,723
06/22/2007		---	---	---	---	3,427	7,306	630	119	159,179	10,740	15,778
06/23/2007	*	---	---	---	---	4,709	9,294	469	178	---	20,118	17,008
06/24/2007		---	---	---	---	6,494	5,776	325	158	259,217	19,039	17,407
06/25/2007	*	---	---	---	---	7,422	12,630	402	54	---	14,701	22,862
06/26/2007		---	---	---	---	5,969	10,971	542	85	235,112	49,403	19,338
06/27/2007	*	---	---	---	---	5,060	12,218	1,799	107	---	56,736	26,768
06/28/2007	*	---	---	---	---	1,997	2,664	314	97	366,889	33,499	34,938
06/29/2007		---	---	---	---	---	---	---	---	---	---	---
<hr/>												
Total:	0	9	0	0	64,869	110,791	8,329	1,302	1,164,989	286,290	257,465	
# Days:	0	7	0	0	14	14	14	14	7	14	14	
Average:	0	1	0	0	4,634	7,914	595	93	166,427	20,449	18,390	
YTD	0	82	90	255	257,825	322,635	60,008	4,147	1,342,019	454,223	2,555,613	

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)
06/15/2007	*	---	0	---	97	62	4	60	---	1,302	2,176
06/16/2007		---	0	---	26	164	0	59	1,354	889	2,171
06/17/2007	*	---	0	---	64	158	2	91	---	1,305	1,737
06/18/2007		---	0	---	72	14	0	57	932	1,379	1,553
06/19/2007	*	---	0	---	30	36	0	43	---	399	1,102
06/20/2007	*	---	0	---	0	57	0	52	466	636	783
06/21/2007	*	---	0	---	0	115	0	23	---	558	380
06/22/2007		---	---	---	10	0	2	26	329	271	1,153
06/23/2007	*	---	---	---	0	43	0	32	---	200	350
06/24/2007		---	---	---	0	43	0	12	122	133	237
06/25/2007	*	---	---	---	0	46	0	10	---	155	156
06/26/2007		---	---	---	0	15	0	13	0	118	71
06/27/2007	*	---	---	---	0	15	0	5	---	361	147
06/28/2007	*	---	---	---	0	29	0	10	0	91	121
06/29/2007		---	---	---	---	---	---	---	---	---	---
<hr/>											
Total:		0	0	0	299	797	8	493	3,203	7,797	12,137
# Days:		0	7	0	14	14	14	14	7	14	14
Average:		0	0	0	21	57	1	35	458	557	867
YTD		0	0	0	57	50,668	54,960	17,917	64,310	98,823	345,389

		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)
06/15/2007	*	---	31	---	660	1,759	105	14	---	1,380	347
06/16/2007		---	24	---	256	2,285	123	14	1,523	1,010	1,259
06/17/2007	*	---	17	---	446	1,624	93	15	---	1,749	1,267
06/18/2007		---	24	---	281	1,076	39	13	1,108	1,504	1,142
06/19/2007	*	---	12	---	237	1,157	56	8	---	1,042	1,030
06/20/2007	*	---	10	---	193	1,422	69	14	594	680	477
06/21/2007	*	---	38	---	214	1,628	58	9	---	492	635
06/22/2007		---	---	---	87	2,234	87	9	594	418	1,027
06/23/2007	*	---	---	---	73	999	60	8	---	302	1,051
06/24/2007		---	---	---	84	649	52	3	488	284	715
06/25/2007	*	---	---	---	41	706	53	17	---	351	400
06/26/2007		---	---	---	56	251	30	8	257	91	387
06/27/2007	*	---	---	---	72	337	65	8	---	361	374
06/28/2007	*	---	---	---	38	450	40	3	0	91	194
06/29/2007		---	---	---	---	---	---	---	---	---	---
<hr/>											
Total:		0	156	0	2,738	16,577	930	143	4,564	9,755	10,305
# Days:		0	7	0	14	14	14	14	7	14	14
Average:		0	22	0	196	1,184	66	10	652	697	736
YTD		3,734	45,908	1,940	7,792	1,858,660	1,843,329	738,694	18,499	374,515	955,845

Two-Week Summary of Passage Indices

Date	COMBINED SOCKEYE											
	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)	
06/15/2007	*	---	0	---	---	32	0	0	2	---	2,683	820
06/16/2007		---	0	---	---	0	0	6	3	1,946	1,421	347
06/17/2007	*	---	0	---	---	0	29	4	0	---	1,460	277
06/18/2007		---	0	---	---	9	57	2	0	1,271	1,095	365
06/19/2007	*	---	0	---	---	0	36	0	0	---	768	484
06/20/2007	*	---	0	---	---	11	29	5	3	382	645	222
06/21/2007	*	---	0	---	---	0	14	0	0	---	581	361
06/22/2007		---	---	---	---	0	14	2	0	395	375	170
06/23/2007	*	---	---	---	---	0	29	2	2	---	300	39
06/24/2007		---	---	---	---	0	14	0	0	0	288	169
06/25/2007	*	---	---	---	---	0	0	4	0	---	389	156
06/26/2007		---	---	---	---	0	15	0	0	0	213	53
06/27/2007	*	---	---	---	---	0	0	0	0	---	226	22
06/28/2007	*	---	---	---	---	0	0	0	0	0	180	49
06/29/2007		---	---	---	---	---	---	---	---	---	---	---
<hr/>												
Total:		0	0	0	0	52	237	25	10	3,994	10,624	3,534
# Days:		0	7	0	0	14	14	14	14	7	14	14
Average:		0	0	0	0	4	17	2	1	571	759	252
YTD		27	0	0	413	20,682	17,100	5,735	16,418	513,346	788,832	170,707

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

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

Definitions for Smolt Index Counts

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

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

Two Week Transportation Summary

Source: Fish Passage Center

Updated:

6/29/07 9:42 AM

		06/15/07 TO 06/29/07						
		Species						
Site	Data	CH0	CH1	CO	SO	ST	Grand Total	
LGR	Sum of NumberCollected	33,270	275	170	30	1,505	35,250	
	Sum of NumberBarged	19,398	335	209	30	1,899	21,871	
	Sum of NumberBypassed	14,900	0	0	0	232	15,132	
	Sum of Numbertrucked	0	0	0	0	0	0	
	Sum of SampleMorts	30	0	0	0	1	31	
	Sum of FacilityMorts	498	0	1	0	13	512	
	Sum of ResearchMorts	321	0	0	0	0	321	
	Sum of TotalProjectMorts	849	0	1	0	14	864	
LGS	Sum of NumberCollected	76,823	741	554	165	11,532	89,815	
	Sum of NumberBarged	77,263	845	633	165	13,527	92,433	
	Sum of NumberBypassed	2,489	0	0	0	0	2,489	
	Sum of Numbertrucked	0	0	0	0	0	0	
	Sum of SampleMorts	12	0	1	0	3	16	
	Sum of FacilityMorts	32	5	0	0	70	107	
	Sum of ResearchMorts	107	0	0	0	0	107	
	Sum of TotalProjectMorts	151	5	1	0	73	230	
LMN	Sum of NumberCollected	3,966	24	4	12	451	4,457	
	Sum of NumberBarged	2,600	40	4	12	213	2,869	
	Sum of NumberBypassed	2,305	0	0	0	424	2,729	
	Sum of Numbertrucked	0	0	0	0	0	0	
	Sum of SampleMorts	21	0	0	0	7	28	
	Sum of FacilityMorts	3	2	0	0	1	6	
	Sum of ResearchMorts	0	0	0	0	0	0	
	Sum of TotalProjectMorts	24	2	0	0	8	34	
MCN	Sum of NumberCollected	565,962	6,021	1,867	2,355	2,600	578,805	
	Sum of NumberBarged	0	0	0	0	0	0	
	Sum of NumberBypassed	565,863	6,016	1,867	2,354	2,594	578,694	
	Sum of Numbertrucked	0	0	0	0	0	0	
	Sum of SampleMorts	40	0	0	0	2	42	
	Sum of FacilityMorts	41	5	0	1	4	51	
	Sum of ResearchMorts	18	0	0	0	0	18	
	Sum of TotalProjectMorts	99	5	0	1	6	111	
Total Sum of NumberCollected		680,021	7,061	2,595	2,562	16,088	708,327	
Total Sum of NumberBarged		99,261	1,220	846	207	15,639	117,173	
Total Sum of NumberBypassed		585,557	6,016	1,867	2,354	3,250	599,044	
Total Sum of Numbertrucked		0	0	0	0	0	0	
Total Sum of SampleMorts		103	0	1	0	13	117	
Total Sum of FacilityMorts		574	12	1	1	88	676	
Total Sum of ResearchMorts		446	0	0	0	0	446	
Total Sum of TotalProjectMorts		1,123	12	2	1	101	1,239	

YTD Transportation Summary

Source: Fish Passage Center

Updated:

6/29/07 9:42 AM

TO: 06/29/07

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	157,621	1,578,062	38,255	15,920	1,367,485	3,157,343
	Sum of NumberBarged	127,839	1,125,009	36,804	15,540	1,185,248	2,490,440
	Sum of NumberBypassed	28,038	451,109	1,432	356	181,734	662,669
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	90	56	1	2	31	180
	Sum of FacilityMorts	739	1,008	18	22	458	2,245
	Sum of ResearchMorts	643	880	0	0	0	1,523
	Sum of TotalProjectMorts	1,472	1,944	19	24	489	3,948
LGS	Sum of NumberCollected	224,288	463,034	39,406	11,991	1,301,610	2,040,329
	Sum of NumberBarged	218,685	398,076	38,839	11,544	1,178,807	1,845,951
	Sum of NumberBypassed	3,632	64,720	541	433	121,828	191,154
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	17	31	4	2	22	76
	Sum of FacilityMorts	96	192	3	12	647	950
	Sum of ResearchMorts	110	7	0	0	0	117
	Sum of TotalProjectMorts	223	230	7	14	669	1,143
LMN	Sum of NumberCollected	33,609	279,105	13,474	4,155	573,282	903,625
	Sum of NumberBarged	29,621	270,546	13,451	4,130	561,361	879,109
	Sum of NumberBypassed	3,773	8,083	21	2	11,428	23,307
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	39	30	0	0	73	142
	Sum of FacilityMorts	43	393	2	23	436	897
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	82	423	2	23	509	1,039
MCN	Sum of NumberCollected	671,001	1,316,487	58,512	304,229	221,736	2,571,965
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	670,846	1,315,514	58,497	303,723	221,337	2,569,917
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	52	141	4	57	33	287
	Sum of FacilityMorts	86	819	11	447	366	1,729
	Sum of ResearchMorts	18	13	0	2	0	33
	Sum of TotalProjectMorts	156	973	15	506	399	2,049
Total Sum of NumberCollected		1,086,519	3,636,688	149,647	336,295	3,464,113	8,673,262
Total Sum of NumberBarged		376,145	1,793,631	89,094	31,214	2,925,416	5,215,500
Total Sum of NumberBypassed		706,289	1,839,426	60,491	304,514	536,327	3,447,047
Total Sum of NumberTrucked		0	0	0	0	0	0
Total Sum of SampleMorts		198	258	9	61	159	685
Total Sum of FacilityMorts		964	2,412	34	504	1,907	5,821
Total Sum of ResearchMorts		771	900	0	2	0	1,673
Total Sum of TotalProjectMorts		1,933	3,570	43	567	2,066	8,179

Cumulative Adult Passage at Mainstem Dams Through: 06/28

DAM	EndDate	Spring Chinook						Summer Chinook						Fall Chinook					
		2007		2006		10-Yr Avg.		2007		2006		10-Yr Avg.		2007		2006		10-Yr Avg.	
		Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack
BON	06/28	66624	16606	96456	2908	156175	8234	29459	7924	64668	2110	41749	4050	0	0	0	0	0	0
TDA	06/28	52795	15406	61827	2176	108412	6003	23248	6222	50536	1684	33140	2676	0	0	0	0	0	0
JDA	06/28	43379	13663	50313	2093	90974	4767	19914	5006	40752	1320	28680	2210	0	0	0	0	0	0
MCN	06/27	38852	12252	45887	2475	83968	5029	15016	3295	26586	1141	22563	1860	0	0	0	0	0	0
IHR	06/27	28047	7308	25434	875	56277	3172	4803	1163	5242	202	7982	989	0	0	0	0	0	0
LMN	06/28	26963	6934	23589	548	53700	2904	5828	866	5656	186	7295	790	0	0	0	0	0	0
LGS	06/28	23953	7227	20836	733	51418	2974	3715	1288	3387	181	5591	788	0	0	0	0	0	0
LGR	06/28	22481	8971	22530	973	51737	3293	3693	1316	2597	173	5216	754	0	0	0	0	0	0
PRD	06/25	6627	479	8535	81	17371	512	5024	338	6767	19	7056	180	0	0	0	0	0	0
RIS	06/27	5572	2066	9643	483	14040	762	4031	680	6819	130	4839	272	0	0	0	0	0	0
RRH	06/27	2424	920	5376	274	5343	306	1606	103	2823	38	1916	75	0	0	0	0	0	0
WEL	06/27	1816	736	3699	215	3581	201	0	0	0	0	0	0	0	0	0	0	0	0
WFA	06/24	20856	210	32929	177	6531	101	0	0	0	0	0	0	0	0	0	0	0	0

DAM	Coho						Sockeye			Steelhead			
	2007		2006		10-Yr Avg.		10-Yr Avg.			10-Yr Avg.			Wild
	Adult	Jack	Adult	Jack	Adult	Jack	2007	2006	Avg.	2007	2006	Avg.	2007
BON	0	0	0	0	0	0	17221	24330	40865	8992	9212	14530	1872
TDA	0	0	0	0	0	0	12150	17960	31645	3039	2977	5535	740
JDA	1	0	0	0	0	0	14387	16481	31166	4267	4480	7058	1173
MCN	0	0	0	0	0	0	7768	9015	19510	3145	3096	3705	678
IHR	0	0	0	0	0	0	13	9	6	3006	2984	2518	659
LMN	0	0	0	0	0	0	9	4	3	3060	3202	2402	905
LGS	0	0	0	0	0	0	1	1	1	2601	2793	2412	789
LGR	0	0	0	0	0	0	3	1	1	10792	7666	6955	2426
PRD	0	1	0	0	0	0	2536	1530	6033	72	102	81	0
RIS	0	0	0	0	0	0	1528	922	3182	72	70	95	33
RRH	0	0	0	0	1	0	727	402	1588	200	158	145	91
WEL	0	0	0	0	0	0	271	85	595	60	41	27	41
WFA	2	0	0	0	0	0	0	0	0	14992	20863	3525	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: 06/29/07

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

Year	Chinook Adult	Chinook Jack	Steelhead	Wild Steelhead
2007	22	0	1,677	517
2006	2	0	2,523	239

Run Year counts (June 1, 2006 to May 31, 2007) for Lower Granite:

Steelhead
212