



# Fish Passage Center Weekly Report #07 - 10

May 11, 2007

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## Summary of Events:

**Water Supply:** Precipitation throughout the Columbia Basin has varied between 47% and 144% of average at individual sub-basins over the first week of May. Precipitation above The Dalles has been 105% of average over the first week of May. Over the entire water year, precipitation has generally been near or above average.

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

Location	Water Year 2007 May 1-7		Water Year 2007 October 1, 2006 to May 7, 2007	
	Observed (inches)	% Average	Observed (inches)	% Average
	Columbia Above Coulee	0.62	124	18.37
Snake River Above Ice Harbor	0.33	78	10.67	88
Columbia Above The Dalles	0.47	105	17.25	105
Kootenai	0.68	136	19.8	118
Clark Fork	0.66	144	11.52	108
Flathead	0.79	144	15.26	107
Pend Oreille/Spokane	0.28	47	22.13	96
Central Washington	0.24	138	6.55	97
Snake River Plain	0.29	86	6.32	85
Salmon/Boise/Payette	0.35	87	12.66	86
Clearwater	0.51	75	22.41	102
SW Washington Cascades/Cowlitz	0.89	104	61.17	103
Willamette Valley	1.04	131	54.53	107

Table 2 displays the April Final and May Final runoff volume forecasts for multiple reservoirs. Water Supply Forecasts did not vary much between the April Final and May Final forecasts at Columbia Basins and Snake Basin sites. The current forecast at The Dalles between January and July is 99100 Kaf (92% of average).

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

Location	April Final		May Final	
	% Average (1971- 2000)	Probable Runoff Volume (Kaf)	% Average (1971- 2000)	Probable Runoff Volume (Kaf)
The Dalles (Jan-July)	93	100000	92	99100
Grand Coulee (Jan-July)	105	65900	104	65300
Libby Res. Inflow, MT (Jan-July)	106	6700	108	6790
Hungry Horse Res. Inflow, MT (Jan-July)	93	2070	92	2050
Lower Granite Res. Inflow (Apr- July)	70	15100	66	14200
Brownlee Res. Inflow (Apr-July)	52	3300	48	3040
Dworshak Res. Inflow (Apr-July), RFC Forecast	83	2200	78	2060
Dworshak Res. Inflow (Apr-July), COE Forecast	74 (April Final)	1982 (April Final)	70 (May Final)	1868 (May Final)

Grand Coulee Reservoir is at 1249.1 feet (5-10-07) and held steady last week. Outflows at Grand Coulee ranged between 129.9 and 182.7 Kcfs last week.

Dworshak is currently at an elevation of 1577.6 feet (5-10-07) and refilled 1.5 feet last week. Outflows at Dworshak have were 9.7 Kcfs over the last week.

The Libby Reservoir is currently at elevation 2390.9 feet (5-10-07) and refilled 3.6 feet last week. Outflows at Libby are currently 14 Kcfs.

Hungry Horse is currently at an elevation of 3541.7 feet (5-10-07) and refilled 1.4 feet last week. Outflows at Hungry Horse are currently 7.4 Kcfs.

The Brownlee Reservoir was at an elevation of 2075.5 feet on May 10th, 2007, refilling 1.9 feet last week. Outflows at Brownlee Dam have been 9.7 to 15 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 are 85 Kcfs at Lower Granite, 237 Kcfs at McNary, and 135 Kcfs at Priest Rapids. The McNary Dam flow over the past week averaged 275.5 Kcfs and 240 Kcfs over the season. The Lower Granite Dam flow over the past week averaged 74.5 Kcfs and 55.7 Kcfs over the season. The Priest Rapids Dam flow over the past week averaged 189.2 Kcfs and 169.7 Kcfs over the season.

**Spill:** In accordance with the Court Order, spill was initiated at the Snake River Projects at 0001 hours on April 3, 2007. The Court Order calls for the following spill levels at the Federal Snake River Projects:

Project	Day/Night Spill
Lower Granite	20Kcfs/20Kcfs
Little Goose	30%/30%
Lower Monumental	Gas Cap/Gas Cap
Ice Harbor	30%/30% vs 45Kcfs/Gas Cap Study

Spill at Lower Granite Dam has averaged an instantaneous 20 Kcfs. Spill at Little Goose Dam was at the 30% instantaneous level until the evening of April 29th. The 2007 operations agreement calls for the implementation of fourteen days of nighttime spill to the gas cap at Little Goose Dam. However, since the initiation of this operation, spill has not achieved the nighttime spill to the 120% gas cap. Tailrace spill levels have only resulted in average TDG levels of 115.6% to 117.9%. The COE has established maximum spill levels at this project based on the forebay readings downstream at Lower Monumental Dam, where the 115% was exceeded (115.8% to 116.5%). Given the considerable restriction of spill at the upstream project, it seems unlikely that the variation in the TDG levels at Lower Monumental Dam is only related to the spill at the upstream project.

Daily average spill at Lower Monumental Dam is supposed to be 24 hours to gas cap. The monitoring of forebay gas at the downstream project (Ice Harbor) has consistently limited spill at Lower Monumental Dam. The total dissolved gas readings exceeded the 120% at The Lower Monumental tailrace on May 7 and 8 and have exceeded the 115% at Ice Harbor forebay since May 8. The Ice Harbor forebay TDG monitors were again recording values that were higher than being observed below the spill in the tailrace of Lower Monumental Dam. Clearly, the downstream TDG monitors are exceeding gas criteria due to local effects (temperature and biological processes) and are not representative of TDG due to spill at the upstream project. Spill at Lower Monumental was limited to 21.5 Kcfs until midday on May 7 when it was increased to 24.6 Kcfs. On May 8 spill was decreased to 21.5 Kcfs and then to 18.6 Kcfs where it has remained since May 9.

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

Court ordered spill at the lower Columbia projects began on April 10, 2007. The Court Order calls for the following spill levels at the Federal Lower Columbia River Projects:

Project	Day/Night Spill
McNary	40%/40%
John Day	0/60%
The Dalles	40%/40%
Bonneville	100Kcfs/100Kcfs

Spill at McNary Dam is meeting the Court's Order. Spill at John Day Dam has not met the Court's Order, and has only averaged about 49.7% spill between 1900 and 0600 hours over the past week. Total dissolved gas averages have been below 120% in the John Day Dam tailrace; consistently ranging between 117.6% and 118.9%. However, average TDG at The Dalles forebay has exhibited a greater range (111.6% to 115.4%) than observed upstream due to variation in spill. Spill could be increased at this project to better meet the Court's Order.

Spill at The Dalles has been close to the Court's Order on a daily basis. However, hourly spill does not always meet the objective of the Court's Order due to spill caps established by the COE. These spill caps are given to the project operators as maximum allowable spill volumes. Consequently as flows increase, hourly percentages will decrease if it requires spill above the COE gas cap levels. Over the past week the TDG levels in the tailrace have been well below the 120% at The Dalles and well below the 115% at the Bonneville forebay monitor. Consequently, there was no need to restrict the volume of spill such that the Court's Order could not be met hourly.

Spill at Bonneville Dam averaged 95 Kcfs over the past week, rather than the 100 Kcfs specified in the Court's Order. The tailrace average TDG reading has not varied more than 0.5% over the past seven days and has not exceeded 118.8%, while the downstream forebay reading at Camas/Washougal read 115.2% on May 7 and 115.4% on May 8, and ranged between 112.7 and 115.4. This again shows the inherent non representative readings associated with these forebay monitors for management of spill.

Total dissolved gas at the federal hydro-projects showed some exceedences over the past week at Lower Monumental forebay and tailrace, Ice Harbor forebay, McNary forebay, The Dalles forebay and Camas/Washougal. Gas bubble trauma (GBT) monitoring continued this week at Lower Granite, Lower Monumental, Rock Island, and Bonneville dams. A small percentage of fish (1.0 - 6.9%) were observed with minor signs of GBT at Little Goose, Lower Monumental, Rock Island and Bonneville dams over the past week. A total of 2 fish (1.9%) on May 7 and one fish (0.98%) on May 8 were observed with higher rank signs of GBT. However, all samples were well below the action criteria of 15% of fish observed with signs of GBT or 5% with signs of GBT greater than Rank 1.

**Smolt Monitoring:** Sampling is ongoing at all SMP locations. Full transportation (as apposed to research transportation) began at Lower Granite Dam on May 1 and on May 8 at Little Goose Dam. Full 24 hour sampling at Little Goose in support of transportation, began on May 7. Sampling at Lower Monumental Dams has been limited to condition and research sampling; full sampling, in support of transportation began May 10. Sampling at McNary Dam has been resumed on a regular schedule; every other day for spring migrants.

Smolt Monitoring at Snake River tributary traps continued this past week, where the numbers of yearling Chinook and steelhead being captured has decreased at most traps. Flows decreased in the major tributaries with cooler weather, through May 7 or 8, and then began to increase again over the past three days. At the Salmon River Trap, operated by IDFG, hatchery steelhead dominated the catch over the past week. Catch of steelhead at the trap reached 1,337 on May 8. At the Grande Ronde Trap the catch of yearling chinook decreased over the past week but steelhead catch, while low, remained relatively steady. The Imnaha Trap has had large numbers of hatchery yearling chinook and steelhead pass the trap. Steelhead collection decreased over the past week, but still remains relatively high, averaging over 900 per day over the past week. At the Snake River Trap collec-

tion numbers increased sharply last week and then declined over the past 5 to 7 days, as the flows decreased in the Snake River from near 50 Kcfs on May 2, down to 40 Kcfs by May 7, and then began rebounding to 50 Kcfs on May 10. The warming temperatures and increased flows may help push out large numbers of spring migrants that are likely still above Lower Granite Dam.

At Lower Granite Dam, there was a slight increase in collection of spring migrants the past week. The passage index for yearling Chinook averaged 96,000 per day, compared to 72,000 last week, averaged 78,000 per day this week compared to 54,000 last week. Based on different methods of estimated collection efficiency, roughly 4 to 7 million yearling chinook have passed Lower Granite Dam, while an estimated 2 to 4 million steelhead have passed.

Full 24-hour sampling at Little Goose and Lower Monumental dams began this week as transportation began. Transportation began May 8 at Little Goose, so that sampling in support of transport began May 7, while full 24-hour sampling at Lower Monumental began 3 days later, on May 10. The first collection for transport will begin May 11, with the first barge scheduled to transport fish May 12. Prior to those dates some sampling for research and fish had occurred at those dams. As a result of the increased sampling, passage indices and collection numbers increased greatly at Little Goose Dam the past 4 days.

At Rock Island Dam the bypass was shut-down on Monday April 23rd and remained shut-down until April 26, so that crews could inspect and repair seals and brushes in the collection gates. Mortality had increased during late April at the site leading the Chelan PUD to inspect and subsequently repair the gates. Normal sampling resumed on Friday, April 27, but the first real sample would not be available until April 28 to assess if the repairs had alleviated the mortality problem. Subsequent sampling has shown that the mortality rates remain above normal. Chelan PUD continues to investigate the cause. Numbers of all spring migrants have increased rapidly in the past week as sampling has resumed.

In the Lower Columbia, at McNary Dam, just as at Rock Island, numbers of all spring migrants increased this past week. Yearling Chinook predominate in the passage, with the index averaging 226,000 over the past 4 sample dates, while steelhead indices averaged 40,000 for those same dates, compared to 77,000 and 15,000 per day average (respectively) for the previous week. While at John Day Dam the yearling chinook index averaged 146,000 per day this week compared to 49,000 last week, and steelhead numbers were up, with the average index this week at 44,000 compared to 10,000 the previous week.

At Bonneville Dam the yearling chinook index averaged 58,000 over the past week, compared to 27,000 the previous week. Coho indices averaged 21,000 per day this week compared to 5,000 per day last week. Steelhead indices averaged nearly 8,000 per day. Subyearling Chinook index rose to 259,000 on May 3, as passage from the third Spring Creek release peaked. Fish numbers gradually declined over the past week, when the index reached 11,000 to 12,000 per day on May 10 and 11. During the first few day of passage of this subyearling release, turbines units (11-13, and 16-17) were operated at the low end of 1% to minimize gatewell turbulence as these smaller fish passed, as requested by the Salmon Managers in SOR# 2007-5. The mortality rate was much lower during this release than was seen in the earlier two Spring Creek releases this year. SMP personnel reported that mortality was well below 1% during the peak of passage, seeming to indicate that the operation helped reduce bypass mortality.

**Adult Fish Passage:** Adult counts at Bonneville Dam have been updated through May 10th. Between March 15th and May 10th, 49,774 adult spring Chinook had passed Bonneville Dam; this compares to 50,703 spring Chinook adults over the same period last year. Daily passage numbers at Bonneville Dam have ranged between 1,079 and 2,928 adult spring Chinook in the last week. The 2007 spring Chinook count thus far is about 39 percent of the 10-year average count. The 2007 count of 49,774 decreased by 929 salmon when

compared to the 2006 count. In 2006, the spring Chinook migration arrived much later than usual. The 2007 spring Chinook migration arrived earlier than the 2006 migration, but arrived later than the 10-year average migration. In 2006 there was a large increase in spring Chinook counts from about May 6th through May 19th. The 2007 count has not yet seen a similar large increase in fish. As of May 10th, 2,198 steelhead had passed the dam which is about 1.11 times the 2006 count of 1,964. The 2007 Bonneville steelhead count of 2,198 had 452 less steelhead than the 10-year average count of 2,650.

Counts at upriver projects have increased considerably over the past week. As of May 10th, a total of 14,076 spring Chinook were observed at Ice Harbor Dam which is about an 8.26 times increase over the 2005 count of 1,704. The 2007 Ice Harbor count is about 41.2% percent of the 10-year average count. A total of 1,280 spring Chinook have been counted at Priest Rapids dam which compares to 115 over the same period last year.

**Note:** Over the past week the U.S. Army Corp of Engineers has been working on their computer systems, which caused delays in updating dam counts at Ice Harbor and Little Goose Dams. These counts have now been updated.

#### **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 releases of yearling or subyearling Chinook or coho scheduled for this zone over the past week. However, there were a few scheduled releases of summer steelhead and sockeye. In all, approximately 467,855 summer steelhead were scheduled for release into this zone over the past week. Of these, 247,855 were released into Yankee Fork of the Salmon River. The remaining 220,000 summer steelhead were scheduled for release into the Wallowa (54.5%) and Grande Ronde (45.5%) Rivers. These were

both volitional releases that were scheduled to end this week. Approximately 100,000 sockeye were scheduled for release this week into the Salmon River Basin. Of these, 54% were scheduled for release into Redfish Lake while the remaining 46% were scheduled for direct release into the Salmon River.

There are two scheduled releases of subyearling fall Chinook over the next two weeks. The first is a release of approximately 180,000 subyearlings into the Clearwater River that is currently scheduled for May 17th. The second is a release of an estimated 200,000 subyearlings from Pittsburg Landing Acclimation Pond on the Snake River. There are no other releases in this zone scheduled 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. Approximately 95,000 subyearling fall Chinook were scheduled for release into the Yakima River on or around May 7th. In addition, this week marked the end of two volitional releases of summer steelhead in this zone. The first was a release of approximately 358,000 juveniles from Wells Hatchery into the Mid-Columbia. The second was a release of 275,919 juveniles into the Okanogan River from the Similkameen Acclimation Ponds. Finally, the Yakama Tribal Program to re-establish coho runs into the Methow and Wenatchee Rivers Basins continued this week with the release of approximately 408,000 smolts into the Wenatchee River.

Several long volitional releases of yearling spring Chinook are scheduled to end on or around May 15th. In all, these volitional releases will total about 1.35 million juveniles. Of these, approximately 64% are being released into the Yakima River (Cle Elem Hatchery) and 36% are being released into the Wenatchee River. Finally, releases of approximately 495,000 summer steelhead into the Methow and Okanogan Rivers are scheduled to end over the next two weeks. There are no other releases in this zone scheduled 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. This week marked the end of two volitional releases of yearling spring Chinook from acclimation facilities along Hood River. In all, an estimated 47,500 yearling spring Chinook were scheduled for release from these acclimation facilities. Approximately 1.07 million type-N Coho were released into the Klickitat River this week. Just over 119,000 summer steelhead were scheduled for release into this zone over the past week. Of these, 77.6% were scheduled for release into the Klickitat River, while the remaining 22.4% were to be released into the White Salmon River. Finally, an additional 22,500 winter steelhead were scheduled to be released into White Salmon River this past week. Approximately 300,000 subyearling fall Chinook are scheduled for release into the Umatilla River on May 15th. Finally, volitional releases of approximately 29,250 winter steelhead to Hood River are scheduled to end next week. There are no other releases in this zone scheduled 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
04/27/07	143.4	0.0	151.3	0.0	162.6	25.4	158.5	12.3	159.6	16.1	163.8	23.4	167.9	52.8
04/28/07	126.0	0.0	123.7	0.0	136.7	10.1	140.2	0.2	148.1	16.1	168.1	25.0	164.4	14.9
04/29/07	121.7	0.0	118.9	0.0	129.2	10.4	124.0	3.5	128.9	13.4	154.9	21.4	153.8	15.2
04/30/07	141.9	0.0	147.6	0.0	163.6	16.2	165.9	9.4	169.4	17.0	145.7	20.1	156.2	12.0
05/01/07	130.0	0.0	141.4	0.0	154.9	13.0	158.5	5.6	163.0	16.1	178.3	39.8	160.2	14.3
05/02/07	130.4	0.0	129.2	0.0	143.3	10.3	148.0	5.6	154.8	16.1	169.3	24.7	174.0	15.1
05/03/07	150.8	0.0	147.1	0.0	161.4	15.6	156.7	3.8	159.9	16.9	168.3	22.8	159.6	12.4
05/04/07	156.9	0.0	162.1	0.0	177.4	36.9	176.9	22.6	180.3	16.1	195.6	54.3	185.3	27.4
05/05/07	145.1	0.0	140.9	0.0	157.7	17.3	160.4	3.3	165.8	18.1	186.6	42.7	193.2	23.6
05/06/07	140.0	0.0	143.0	0.0	155.0	9.8	152.8	0.0	158.0	14.4	174.9	30.8	173.2	11.3
05/07/07	182.7	0.0	184.0	0.0	193.7	39.5	192.1	25.2	188.3	19.6	193.5	52.3	177.5	18.2
05/08/07	167.3	0.0	182.0	0.0	197.7	60.8	208.9	22.3	210.6	21.9	233.7	96.4	224.7	60.9
05/09/07	143.5	0.0	143.5	0.0	166.7	10.0	174.3	0.0	183.4	20.7	200.0	56.0	194.8	22.0
05/10/07	129.9	0.0	130.7	0.0	159.2	10.9	161.4	0.0	168.2	20.0	182.6	36.9	176.0	13.1

**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
04/27/07	9.8	0.0	11.6	10.3	53.8	19.9	53.6	16.1	54.7	20.3	56.3	43.3		
04/28/07	9.8	0.0	11.8	11.8	55.8	19.8	52.7	15.9	53.4	18.7	55.5	45.3		
04/29/07	9.8	0.0	12.2	12.2	60.9	19.9	59.5	20.9	60.6	18.7	61.7	47.0		
04/30/07	9.8	0.0	12.4	12.1	71.8	20.0	69.9	25.7	71.3	17.2	72.1	54.1		
05/01/07	9.8	0.0	13.0	11.3	83.0	19.9	82.8	26.9	85.7	15.2	86.5	61.7		
05/02/07	9.8	0.0	14.9	11.7	88.5	20.0	83.2	26.6	83.7	17.5	86.3	33.9		
05/03/07	9.8	0.0	15.1	12.6	94.0	20.0	91.4	25.6	92.1	16.0	91.7	27.6		
05/04/07	9.7	0.0	14.2	11.6	88.8	20.0	86.2	25.6	86.4	21.4	87.8	47.1		
05/05/07	9.7	0.0	14.2	10.6	80.9	19.9	79.3	24.8	81.3	21.4	83.7	55.3		
05/06/07	9.7	0.0	14.1	10.6	71.3	20.0	69.6	24.1	69.3	21.4	71.9	29.6		
05/07/07	9.7	0.0	13.2	12.0	67.3	19.9	65.7	24.3	65.9	22.8	66.1	19.8		
05/08/07	9.6	0.0	12.8	12.1	65.9	19.9	63.4	25.0	63.7	23.2	65.4	42.0		
05/09/07	9.7	0.0	14.0	11.8	69.0	19.8	64.3	24.7	66.2	20.3	67.1	47.8		
05/10/07	9.7	0.0	---	---	78.0	19.8	77.0	25.1	77.9	18.6	79.7	32.3		

**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
04/27/07	235.3	94.5	229.2	60.4	226.3	90.6	223.2	99.3	17.9	94.5
04/28/07	233.6	93.8	222.8	60.5	216.8	86.2	236.0	97.4	36.3	90.8
04/29/07	228.5	91.9	227.4	59.5	225.4	90.4	240.8	93.9	44.8	90.7
04/30/07	235.4	94.5	227.3	62.6	223.1	89.6	244.4	93.9	44.4	94.6
05/01/07	259.2	104.1	247.9	64.5	247.6	98.9	268.6	92.7	68.4	96.1
05/02/07	266.1	106.8	256.0	64.6	255.1	101.3	267.3	92.8	69.7	93.2
05/03/07	270.6	108.0	269.4	67.4	262.9	104.4	271.8	93.3	74.6	92.5
05/04/07	290.5	116.5	278.9	71.1	274.7	108.6	284.8	94.1	82.7	96.6
05/05/07	284.4	113.8	276.7	70.6	273.2	109.1	294.4	95.9	85.0	101.9
05/06/07	269.9	108.8	276.8	70.6	269.9	108.2	278.5	97.5	72.9	96.6
05/07/07	256.1	101.8	243.7	63.3	235.1	93.8	265.4	97.2	60.4	96.3
05/08/07	261.1	104.3	250.6	67.2	247.1	95.6	261.5	97.1	52.2	100.7
05/09/07	291.6	116.4	278.1	69.4	273.0	108.2	281.0	94.4	66.7	108.5
05/10/07	274.7	110.6	273.1	71.4	267.3	106.0	284.2	92.5	74.1	105.7

## 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
<b>Lower Granite Dam</b>											
	05/01/07	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	05/08/07	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
<b>Little Goose Dam</b>											
	05/01/07	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	05/08/07	Chinook + Steelhead	99	4	3	3.03%	0.00%	3	0	0	0
<b>Lower Monumental Dam</b>											
	05/07/07	Chinook + Steelhead	99	2	2	2.02%	0.00%	2	0	0	0
<b>McNary Dam</b>											
	05/04/07	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	05/06/07	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
<b>Bonneville Dam</b>											
	05/01/07	Chinook + Steelhead	101	1	1	0.99%	0.00%	1	0	0	0
	05/05/07	Chinook + Steelhead	103	3	3	2.91%	0.97%	1	1	1	0
	05/08/07	Chinook + Steelhead	102	7	7	6.86%	0.98%	6	0	1	0
<b>Rock Island Dam</b>											
	05/01/07	Chinook + Steelhead	101	0	0	0.00%	0.00%	0	0	0	0
	05/07/07	Chinook + Steelhead	100	1	1	1.00%	0.00%	1	0	0	0
	05/10/07	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0



# HATCHERY RELEASE LAST TWO WEEKS

From: **4/27/2007** to **05/10/07**

Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2007	50,592	04-30-07	04-30-07	East Fk Salmon River	Salmon River (ID)
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2007	54,640	04-30-07	04-30-07	Valley Creek	Salmon River (ID)
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2007	60,392	05-01-07	05-02-07	Slate Creek	Salmon River (ID)
Idaho Dept. of Fish and Game	Oxbow-Idaho	CH0	FA	2007	110,000	05-01-07	05-01-07	Hells Canyon Dam	Snake River
Idaho Dept. of Fish and Game	Oxbow-Idaho	SO	UN	2007	54,000	05-08-07	05-08-07	Redfish Lake	Salmon River (ID)
Idaho Dept. of Fish and Game	Sawtooth Hatchery	SO	UN	2007	46,000	05-08-07	05-08-07	Salmon River (ID)	Salmon River (ID)
<b>Idaho Dept. of Fish and Game Total</b>					<b>375,624</b>				
Oregon Dept. of Fish and Wildlife	Irrigon Hatchery Complex	ST	SU	2007	100,000	05-01-07	05-11-07	Big Canyon Acclim.Pd (Grande Ronde)	Grande Ronde River
Oregon Dept. of Fish and Wildlife	Irrigon Hatchery Complex	ST	SU	2007	120,000	04-28-07	05-10-07	Wallowa Acclim Pond	Wallowa River
Oregon Dept. of Fish and Wildlife	Irrigon Hatchery Complex	ST	SU	2007	165,000	04-10-07	05-01-07	Little Sheep Creek	Imnaha River
<b>Oregon Dept. of Fish and Wildlife Total</b>					<b>385,000</b>				
U.S. Fish and Wildlife Service	Hagerman NFH	ST	SU	2007	102,551	05-01-07	05-02-07	East Fk Salmon River	Salmon River (ID)
U.S. Fish and Wildlife Service	Hagerman NFH	ST	SU	2007	247,855	05-03-07	05-09-07	Yankee Fk (Salmon R)	Salmon River (ID)
U.S. Fish and Wildlife Service	Hagerman NFH	ST	SU	2007	821,364	04-09-07	04-30-07	Salmon River (ID)	Salmon River (ID)
U.S. Fish and Wildlife Service	Spring Creek NFH	CH0	FA	2007	3,494,735	05-01-07	05-01-07	White Salmon River	White Salmon River
U.S. Fish and Wildlife Service	Winthrop NFH	ST	SU	2007	122,515	04-30-07	04-30-07	Winthrop Hatchery	Methow River
<b>U.S. Fish and Wildlife Service Total</b>					<b>4,789,020</b>				
Warm Springs Tribe	Oak Springs Hatchery	ST	WI	2007	9,750	05-03-07	05-16-07	Parkdale Acclim Pond E Fk Irrig Dist Sand	Hood River
Warm Springs Tribe	Oak Springs Hatchery	ST	WI	2007	19,500	04-20-07	05-15-07	Trap Jones Creek Acclim	Hood River
Warm Springs Tribe	Round Butte Hatchery	CH1	SP	2007	20,000	04-24-07	05-07-07	Pond	Hood River
Warm Springs Tribe	Round Butte Hatchery	CH1	SP	2007	27,500	04-24-07	05-08-07	Blackberry Acclim Pond	Hood River
Warm Springs Tribe	Round Butte Hatchery	CH1	SP	2007	32,000	03-22-07	05-04-07	Parkdale Acclim Pond	Hood River
<b>Warm Springs Tribe Total</b>					<b>108,750</b>				
Washington Dept. of Fish and Wildlife	Chiwawa Hatchery	CH1	SP	2007	55,000	05-02-07	05-02-07	Lake Wenatchee	Wenatchee River
Washington Dept. of Fish and Wildlife	Chiwawa Hatchery	CH1	SP	2007	493,000	04-16-07	05-15-07	Chiwawa Hatchery	Wenatchee River
Washington Dept. of Fish and Wildlife	Eastbank Hatchery	CH1	SU	2007	275,919	04-18-07	05-09-07	Similkameen Acclim Pd	Okanogan River
Washington Dept. of Fish and Wildlife	Eastbank Hatchery	CH1	SU	2007	704,000	04-30-07	04-30-07	Dryden Acclim Pond	Wenatchee River
Washington Dept. of Fish and Wildlife	Methow Hatchery	CH1	SU	2007	264,000	04-16-07	05-01-07	Carlton Acclim Pond	Methow River
Washington Dept. of Fish and Wildlife	Skamania Hatchery	ST	SU	2007	26,684	04-15-07	05-10-07	White Salmon River	White Salmon River
Washington Dept. of Fish and Wildlife	Skamania Hatchery	ST	SU	2007	92,684	04-15-07	05-10-07	Klickitat River	Klickitat River
Washington Dept. of Fish and Wildlife	Skamania Hatchery	ST	WI	2007	22,500	04-15-07	05-10-07	White Salmon River	White Salmon River
Washington Dept. of Fish and Wildlife	Turtle Rock Hatchery	CH1	SU	2007	204,000	05-01-07	05-01-07	Turtle Rock Hatchery	Mid-Columbia River
Washington Dept. of Fish and Wildlife	Turtle Rock Hatchery	ST	SU	2007	36,000	05-01-07	05-04-07	Wenatchee River	Wenatchee River
Washington Dept. of Fish and Wildlife	Turtle Rock Hatchery	ST	SU	2007	95,000	05-01-07	05-04-07	Nason Creek	Wenatchee River
Washington Dept. of Fish and Wildlife	Turtle Rock Hatchery	ST	SU	2007	109,000	05-01-07	05-04-07	Wenatchee River	Wenatchee River
Washington Dept. of Fish and Wildlife	Wells Hatchery	CH1	SU	2007	358,000	04-23-07	05-07-07	Wells Hatchery	Mid-Columbia River
Washington Dept. of Fish and Wildlife	Wells Hatchery	ST	SU	2007	100,000	04-23-07	05-15-07	Twisp River	Methow River
Washington Dept. of Fish and Wildlife	Wells Hatchery	ST	SU	2007	122,500	04-23-07	05-15-07	Chewuch River	Methow River
Washington Dept. of Fish and Wildlife	Wells Hatchery	ST	SU	2007	122,500	04-23-07	05-15-07	Methow River	Methow River
Washington Dept. of Fish and Wildlife	Wells Hatchery	ST	SU	2007	150,000	04-23-07	05-15-07	Okanogan River	Okanogan River
<b>Washington Dept. of Fish and Wildlife Total</b>					<b>3,230,787</b>				
Yakama Tribe	Cascade Hatchery	CO	UN	2007	70,035	05-07-07	05-07-07	Nason Creek	Wenatchee River
Yakama Tribe	Cascade Hatchery	CO	UN	2007	140,157	05-01-07	05-01-07	Wells Hatchery	Mid-Columbia River
Yakama Tribe	Cle Elem Hatchery	CH1	SP	2007	281,176	03-15-07	05-15-07	Easton Pond	Yakima River
Yakama Tribe	Cle Elem Hatchery	CH1	SP	2007	287,645	03-15-07	05-15-07	Clark Flat Acclim Pond Jack Creek Acclim	Yakima River
Yakama Tribe	Cle Elem Hatchery	CH1	SP	2007	291,991	03-15-07	05-15-07	Pond	Yakima River
Yakama Tribe	Klickitat Hatchery	CO	NO	2007	1,073,000	05-07-07	05-10-07	Klickitat Hatchery	Klickitat River
Yakama Tribe	Prosser Acclim. Pond	CH0	FA	2007	95,000	05-07-07	05-07-07	Stiles Pond	Yakima River
Yakama Tribe	Willard Hatchery	CO	UN	2007	99,930	05-07-07	05-07-07	Nason Creek	Wenatchee River
Yakama Tribe	Willard Hatchery	CO	UN	2007	101,482	05-08-07	05-08-07	Wenatchee River	Wenatchee River
Yakama Tribe	Willard Hatchery	CO	UN	2007	136,490	05-06-07	05-06-07	Nason Creek	Wenatchee River
<b>Yakama Tribe Total</b>					<b>2,576,906</b>				
<b>Grand Total</b>					<b>11,466,087</b>				

**HATCHERY RELEASE NEXT TWO WEEKS**

Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
Nez Perce Tribe	Nez Perce Tribal Hatchery	CH0	FA	2007	180,000	05-17-07	05-17-07	Lapwai Creek Pittsburg Landing	Clearwater River M F
Nez Perce Tribe	Umatilla Hatchery	CH0	FA	2007	200,000	05-23-07	05-23-07	Acclim Pond	Snake River
<b>Nez Perce Tribe Total</b>					<b>380,000</b>				
Oregon Dept. of Fish and Wildlife	Irrigon Hatchery Complex	ST	SU	2007	100,000	05-01-07	05-11-07	Big Canyon Acclim.Pd (Grande Ronde)	Grande Ronde River
Oregon Dept. of Fish and Wildlife	Umatilla Hatchery	CH0	FA	2007	300,000	05-15-07	05-15-07	Umatilla River	Umatilla River
<b>Oregon Dept. of Fish and Wildlife Total</b>					<b>400,000</b>				
Warm Springs Tribe	Oak Springs Hatchery	ST	WI	2007	9,750	05-03-07	05-16-07	Parkdale Acclim Pond E Fk Irrig Dist Sand	Hood River
Warm Springs Tribe	Oak Springs Hatchery	ST	WI	2007	19,500	04-20-07	05-15-07	Trap	Hood River
<b>Warm Springs Tribe Total</b>					<b>29,250</b>				
Washington Dept. of Fish and Wildlife	Chiwawa Hatchery	CH1	SP	2007	493,000	04-16-07	05-15-07	Chiwawa Hatchery	Wenatchee River
Washington Dept. of Fish and Wildlife	Wells Hatchery	ST	SU	2007	100,000	04-23-07	05-15-07	Twisp River	Methow River
Washington Dept. of Fish and Wildlife	Wells Hatchery	ST	SU	2007	122,500	04-23-07	05-15-07	Chewuch River	Methow River
Washington Dept. of Fish and Wildlife	Wells Hatchery	ST	SU	2007	122,500	04-23-07	05-15-07	Methow River	Methow River
Washington Dept. of Fish and Wildlife	Wells Hatchery	ST	SU	2007	150,000	04-23-07	05-15-07	Okanogan River	Okanogan River
<b>Washington Dept. of Fish and Wildlife Total</b>					<b>988,000</b>				
Yakama Tribe	Cle Elem Hatchery	CH1	SP	2007	281,176	03-15-07	05-15-07	Easton Pond	Yakima River
Yakama Tribe	Cle Elem Hatchery	CH1	SP	2007	287,645	03-15-07	05-15-07	Clark Flat Acclim Pond Jack Creek Acclim	Yakima River
Yakama Tribe	Cle Elem Hatchery	CH1	SP	2007	291,991	03-15-07	05-15-07	Pond	Yakima River
<b>Yakama Tribe Total</b>					<b>860,812</b>				
<b>Grand Total</b>					<b>2,658,062</b>				

## 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>				
4/27	99	100	100	24	110	111	114	24	112	112	113	24	109	110	111	24	109	109	110	24
4/28	99	99	99	24	111	113	115	24	112	112	113	24	110	110	111	24	110	110	110	24
4/29	99	99	99	21	109	110	111	24	112	112	113	24	109	110	111	24	110	110	111	24
4/30	---	---	---	0	112	115	117	24	112	112	113	24	110	110	111	24	110	111	111	24
5/1	---	---	---	0	113	115	117	24	113	113	113	24	111	111	113	24	111	111	111	24
5/2	99	99	99	11	112	113	116	24	113	113	114	24	111	112	113	24	111	111	111	24
5/3	98	99	99	24	115	116	117	24	112	113	113	24	110	111	111	24	110	110	110	24
5/4	99	99	99	24	117	119	119	24	112	112	112	24	110	110	111	24	110	110	110	24
5/5	97	98	98	24	117	118	118	24	111	111	111	24	109	109	110	24	109	109	109	24
5/6	98	98	98	24	118	119	120	24	110	110	111	24	108	108	109	24	108	109	109	24
5/7	98	98	98	24	118	119	119	24	111	111	111	24	109	110	110	24	109	109	109	24
5/8	98	99	99	24	118	119	120	24	111	112	113	24	110	110	111	24	110	110	110	24
5/9	99	99	99	24	118	119	120	24	111	111	111	24	109	109	109	24	109	109	110	24
5/10	99	99	100	24	118	119	121	24	111	111	111	24	108	109	109	24	109	109	110	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>				
4/27	109	109	110	24	108	108	109	24	111	114	119	24	110	110	110	24	110	111	112	24
4/28	109	110	111	24	108	108	109	24	110	110	114	24	110	110	111	24	110	110	111	24
4/29	110	110	112	24	109	109	109	24	110	110	111	24	112	113	113	24	112	113	113	24
4/30	110	110	111	24	109	109	110	24	111	112	119	24	110	110	110	24	110	111	114	24
5/1	110	110	111	24	109	110	110	24	112	113	116	24	111	112	112	24	111	112	115	24
5/2	110	110	111	24	109	110	110	24	111	112	115	24	112	112	113	24	112	113	115	24
5/3	110	110	111	24	109	109	109	24	110	111	119	24	110	110	111	24	110	111	114	24
5/4	109	109	111	24	109	109	109	24	114	117	122	24	109	110	110	24	111	113	117	24
5/5	108	109	109	24	107	108	108	24	110	112	121	24	111	111	112	24	111	112	113	24
5/6	108	108	109	24	108	108	108	24	109	109	109	24	112	113	114	24	112	114	115	24
5/7	108	108	109	24	108	108	109	24	114	116	120	24	109	109	110	24	110	111	113	24
5/8	109	110	110	24	109	110	110	24	119	122	126	24	113	115	118	24	115	116	119	24
5/9	109	109	110	24	108	109	109	24	110	111	114	24	117	118	119	24	117	118	119	24
5/10	109	109	110	24	108	108	109	24	109	110	110	24	114	115	118	24	113	115	118	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>				
4/27	110	111	112	24	112	113	114	24	110	111	112	24	116	116	117	24	114	117	118	24
4/28	110	111	112	24	113	114	115	24	110	110	111	24	115	116	117	24	117	117	118	24
4/29	110	111	112	24	112	113	114	24	109	110	110	24	114	114	114	24	115	116	117	24
4/30	110	111	112	24	112	113	114	24	111	112	113	24	114	115	116	24	115	116	116	24
5/1	110	111	113	24	113	114	115	24	111	111	112	24	115	117	126	24	116	118	123	24
5/2	111	112	113	24	114	114	115	24	111	111	112	24	114	116	118	24	114	115	116	24
5/3	110	110	110	24	112	113	114	24	109	109	110	24	113	115	116	24	113	114	115	24
5/4	110	110	111	24	112	113	114	24	109	109	109	24	115	117	118	24	112	114	115	24
5/5	111	112	115	24	113	114	117	24	107	107	108	24	112	114	117	24	113	114	115	24
5/6	112	113	114	24	113	115	115	24	107	108	110	24	111	113	115	24	111	113	114	24
5/7	110	111	112	24	112	113	115	24	110	111	112	24	115	118	119	24	112	114	115	24
5/8	113	114	116	24	115	116	119	24	111	112	113	24	122	125	127	24	119	121	124	24
5/9	116	116	117	24	118	119	119	24	111	112	114	22	116	118	123	24	119	121	122	24
5/10	114	115	116	24	117	118	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		Avg
4/27	118	118	119	24	114	114	115	24	96	97	97	24	100	101	102	24	103	104	105	24	
4/28	117	117	118	24	113	113	114	24	97	97	97	24	---	---	---	24	0	103	104	105	24
4/29	115	116	117	24	112	113	114	24	97	98	98	24	101	101	102	24	103	103	104	24	
4/30	114	115	115	24	111	112	112	24	97	98	98	24	101	102	103	24	103	104	105	24	
5/1	116	117	121	24	111	111	111	24	98	98	98	24	102	102	103	24	104	105	105	24	
5/2	115	116	117	24	110	111	111	23	98	98	98	21	101	101	102	23	104	104	104	23	
5/3	113	114	115	24	108	109	110	24	98	98	98	24	101	102	102	24	104	105	105	24	
5/4	113	114	115	24	108	109	110	24	98	98	98	24	101	102	102	24	104	104	105	24	
5/5	114	115	115	24	109	110	110	24	97	98	98	24	101	101	102	24	104	105	106	24	
5/6	112	113	114	24	110	111	111	24	97	98	98	24	101	101	102	24	104	105	105	24	
5/7	113	115	116	24	109	111	112	24	97	98	98	24	101	102	102	24	104	105	106	24	
5/8	120	122	124	24	112	114	116	24	98	99	102	24	101	103	103	24	104	105	107	24	
5/9	119	121	124	24	115	117	118	24	98	98	99	24	101	102	103	24	104	104	105	24	
5/10	---	---	---	0	115	115	116	24	98	99	100	24	101	102	102	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	
4/27	101	103	104	24	102	103	104	24	111	111	111	24	110	110	111	24	114	115	116	24
4/28	101	103	104	24	102	102	103	24	110	111	111	24	110	110	111	24	114	115	115	24
4/29	101	102	103	24	103	103	104	24	110	111	111	24	111	112	112	24	116	117	118	24
4/30	101	102	103	24	103	104	104	24	110	111	111	24	112	113	113	24	118	118	119	24
5/1	101	102	103	24	103	104	104	24	110	111	111	24	113	114	116	24	118	118	118	24
5/2	100	101	101	23	103	103	103	23	110	110	111	23	112	112	113	23	118	118	119	23
5/3	101	101	102	24	102	102	102	24	109	109	109	24	109	109	110	24	116	117	117	24
5/4	101	102	102	24	101	102	102	24	109	109	110	24	106	106	107	24	116	116	117	24
5/5	101	102	103	24	101	101	102	24	109	109	110	24	104	105	105	24	115	116	116	24
5/6	101	102	103	24	102	102	102	24	110	110	110	24	104	105	106	24	115	116	117	24
5/7	102	103	104	24	102	103	103	24	110	111	112	24	105	106	106	24	116	117	118	24
5/8	102	104	105	24	104	105	106	24	110	111	112	24	107	108	109	24	117	118	119	24
5/9	102	103	104	24	105	105	105	24	111	111	111	24	109	109	110	24	117	118	119	24
5/10	101	103	104	24	105	105	106	24	110	111	111	24	110	110	111	24	117	117	118	24

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

Date	<u>Lower Mon.</u>				<u>L. Mon. Tlwr</u>				<u>Ice Harbor</u>				<u>Ice Harbor Tlwr</u>				<u>McNary-Oregon</u>			
	<u>24 h</u>		<u>12 h</u>		#	<u>24 h</u>		<u>12 h</u>		#	<u>24 h</u>		<u>12 h</u>		#	<u>24 h</u>		<u>12 h</u>		#
	Avg	Avg	High	hr		Avg	Avg	High	hr		Avg	Avg	High	hr		Avg	Avg	High	hr	
4/27	111	111	112	24	115	116	116	24	115	116	116	24	115	115	116	24	---	---	---	0
4/28	112	112	112	24	114	115	115	24	116	116	116	24	114	115	116	24	---	---	---	0
4/29	113	113	113	24	114	114	115	24	116	116	117	24	115	115	116	24	---	---	---	0
4/30	114	114	115	24	113	114	115	24	115	115	115	24	116	116	116	24	---	---	---	0
5/1	115	116	119	24	113	114	115	24	115	116	116	24	117	118	120	24	---	---	---	0
5/2	118	118	119	23	115	116	121	24	115	116	116	23	116	117	120	23	---	---	---	0
5/3	115	115	116	24	115	116	119	24	113	113	113	24	115	116	116	24	---	---	---	0
5/4	114	114	114	24	117	118	119	24	112	112	112	24	115	116	116	24	---	---	---	0
5/5	112	112	113	24	117	117	117	24	111	112	112	24	115	116	116	24	---	---	---	0
5/6	112	112	112	24	117	117	118	24	112	112	113	24	114	115	115	24	---	---	---	0
5/7	113	113	113	24	119	120	121	24	113	114	114	24	113	114	115	24	---	---	---	0
5/8	115	116	116	24	119	121	122	24	115	116	117	24	114	116	119	24	---	---	---	0
5/9	116	116	116	24	117	117	118	24	116	116	117	24	115	116	116	24	---	---	---	0
5/10	116	117	117	24	115	115	116	24	117	117	117	24	116	117	118	24	---	---	---	0

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

### Total Dissolved Gas Saturation Data at Lower Columbia River Sites

Date	McNary-Wash				McNary Tlwr				John Day				John Day Tlwr				The Dalles			
	24 h Avg	12 h Avg	High	# hr	24 h Avg	12 h Avg	High	# hr	24h Avg	12h Avg	High	# hr	24h Avg	12h Avg	High	# hr	24h Avg	AVG	High	# hr
4/27	113	113	114	24	115	116	116	24	109	110	111	24	114	118	118	24	112	114	115	24
4/28	114	115	116	24	115	116	116	24	110	111	111	24	114	118	118	24	112	114	115	24
4/29	115	115	115	24	114	114	115	24	111	111	111	24	114	118	118	24	112	113	114	24
4/30	114	115	115	24	116	117	118	24	111	111	112	24	115	118	119	24	112	114	115	24
5/1	114	115	115	24	116	116	116	24	112	113	114	24	115	119	119	24	113	115	116	24
5/2	113	114	115	23	115	116	116	23	113	113	114	24	116	119	119	24	113	114	114	24
5/3	111	111	111	24	115	116	116	24	112	112	112	24	115	118	119	24	112	113	114	24
5/4	109	109	110	24	115	116	116	24	110	111	111	24	114	118	118	24	111	112	114	24
5/5	108	109	110	24	115	116	116	24	108	108	109	24	113	118	118	24	110	112	113	24
5/6	109	110	111	24	115	115	116	24	107	107	107	24	112	118	118	24	109	112	112	24
5/7	112	113	114	24	115	116	118	24	107	108	109	24	113	117	119	24	110	113	116	24
5/8	113	114	114	24	116	117	118	24	110	111	111	24	114	118	119	24	113	115	117	24
5/9	113	114	115	24	116	116	117	24	111	112	113	24	115	118	119	24	111	113	115	24
5/10	114	116	117	24	116	116	116	24	113	114	114	23	116	118	119	23	113	115	116	24

### Total Dissolved Gas Saturation Data at Lower Columbia River Sites

Date	The Dalles Dnst				Bonneville				Warrendale				Camas\Washougal				Cascade Island			
	24 h Avg	12 h Avg	High	# hr	24 h Avg	12 h Avg	High	# hr	24h Avg	12h Avg	High	# hr	24h Avg	12h Avg	High	# hr	24h Avg	AVG	High	# hr
4/27	116	117	118	24	113	114	115	24	116	116	117	24	114	116	116	24	117	117	117	24
4/28	116	117	118	24	114	114	115	24	116	116	117	24	115	116	117	24	117	117	118	24
4/29	116	116	117	24	113	114	115	24	115	116	116	24	114	115	115	24	117	118	118	24
4/30	116	117	117	24	113	114	114	24	115	116	116	24	114	115	116	23	118	118	119	24
5/1	117	118	119	24	113	114	114	24	114	115	115	24	114	115	116	24	118	119	119	24
5/2	116	116	118	24	114	115	115	24	115	115	115	24	113	113	114	24	118	119	119	24
5/3	115	116	117	24	113	114	114	24	114	115	115	24	113	114	115	24	118	119	119	24
5/4	115	115	116	24	112	113	113	24	113	114	114	24	113	113	114	24	119	119	119	24
5/5	114	115	116	24	111	111	112	24	112	113	113	24	112	113	114	24	118	119	119	24
5/6	113	114	115	24	111	111	112	24	113	113	114	24	112	113	113	24	118	118	119	24
5/7	112	114	116	24	112	112	113	24	114	114	115	24	114	115	116	24	118	118	119	24
5/8	114	116	119	24	114	114	115	24	115	116	117	24	114	115	117	24	118	118	119	24
5/9	116	118	119	24	112	113	114	24	114	114	115	24	113	114	116	24	118	119	119	24
5/10	117	118	118	24	112	113	113	24	114	114	114	24	113	114	115	24	118	119	119	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/currentsmppsubmitdata.asp>

<b>COMBINED YEARLING CHINOOK</b>												
	WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2	
Date	(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)
04/27/2007	*	606	258	71	52	33,164	1,785	0	85	41,772	21,860	15,760
04/28/2007	*	421	320	92	14	36,736	4,489	0	97	---	22,058	14,973
04/29/2007	*	2,877	688	138	24	30,537	434	623	106	62,474	26,675	17,715
04/30/2007	*	2,123	771	211	108	22,152	608	472	181	---	44,515	23,502
05/01/2007	*	---	302	294	1,589	65,978	740	917	425	79,627	56,836	32,947
05/02/2007	*	---	229	182	1,627	107,191	---	234	281	---	73,263	34,872
05/03/2007	*	---	307	559	510	207,214	832	595	333	123,318	98,190	47,685
05/04/2007	*	---	351	718	947	220,861	352	187	473	---	101,849	46,042
05/05/2007	*	---	554	184	187	143,889	247	416	518	213,064	115,927	48,385
05/06/2007	*	---	263	99	167	101,693	219	260	429	---	156,158	55,576
05/07/2007	*	39	151	48	31	46,600	36,701	280	184	224,123	155,216	46,320
05/08/2007	*	101	259	57	25	51,837	35,407	112	382	---	114,113	50,947
05/09/2007		29	269	91	4	42,485	29,866	123	650	241,682	159,181	69,064
05/10/2007	*	28	---	68	40	64,430	15,099	332	357	---	224,904	87,067
05/11/2007		---	---	---	---	---	---	---	---	---	---	---
<hr/>												
<b>Total:</b>		<b>6,224</b>	<b>4,722</b>	<b>2,812</b>	<b>5,325</b>	<b>1,174,767</b>	<b>126,779</b>	<b>4,551</b>	<b>4,501</b>	<b>986,060</b>	<b>1,370,745</b>	<b>590,855</b>
<b># Days:</b>		<b>8</b>	<b>13</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>13</b>	<b>14</b>	<b>14</b>	<b>7</b>	<b>14</b>	<b>14</b>
<b>Average:</b>		<b>778</b>	<b>363</b>	<b>201</b>	<b>380</b>	<b>83,912</b>	<b>9,752</b>	<b>325</b>	<b>322</b>	<b>140,866</b>	<b>97,910</b>	<b>42,204</b>
<b>YTD</b>		<b>43,478</b>	<b>83,709</b>	<b>14,618</b>	<b>5,837</b>	<b>1,813,956</b>	<b>142,648</b>	<b>12,225</b>	<b>8,936</b>	<b>1,085,469</b>	<b>1,587,104</b>	<b>881,914</b>

<b>COMBINED SUBYEARLING CHINOOK</b>												
	WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2	
Date	(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)
04/27/2007	*	0	0	1	1	0	0	0	24	102	0	198
04/28/2007	*	0	0	1	0	0	14	0	15	---	0	142
04/29/2007	*	0	0	2	2	156	0	22	72	51	0	26
04/30/2007	*	0	0	3	1	0	0	11	34	---	0	197
05/01/2007	*	---	0	0	15	0	2	4	17	169	0	26
05/02/2007	*	---	0	0	28	0	---	0	18	---	0	71,021
05/03/2007	*	---	0	0	25	0	1	0	6	507	0	259,419
05/04/2007	*	---	0	1	27	254	0	0	21	---	0	139,573
05/05/2007	*	---	0	0	10	0	0	1	9	677	0	90,308
05/06/2007	*	---	0	0	13	0	0	0	3	---	0	58,903
05/07/2007	*	0	0	0	10	281	0	0	3	176	0	23,880
05/08/2007	*	0	0	4	4	0	333	0	162	---	0	15,088
05/09/2007		0	0	5	4	0	240	0	118	521	0	12,591
05/10/2007	*	0	---	5	4	279	744	0	119	---	0	10,766
05/11/2007		---	---	---	---	---	---	---	---	---	---	---
<hr/>												
<b>Total:</b>		<b>0</b>	<b>0</b>	<b>22</b>	<b>144</b>	<b>970</b>	<b>1,334</b>	<b>38</b>	<b>621</b>	<b>2,203</b>	<b>0</b>	<b>682,138</b>
<b># Days:</b>		<b>8</b>	<b>13</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>13</b>	<b>14</b>	<b>14</b>	<b>7</b>	<b>14</b>	<b>14</b>
<b>Average:</b>		<b>0</b>	<b>0</b>	<b>2</b>	<b>10</b>	<b>69</b>	<b>103</b>	<b>3</b>	<b>44</b>	<b>315</b>	<b>0</b>	<b>48,724</b>
<b>YTD</b>		<b>0</b>	<b>56</b>	<b>24</b>	<b>179</b>	<b>2,671</b>	<b>1,336</b>	<b>38</b>	<b>840</b>	<b>2,463</b>	<b>127</b>	<b>2,105,361</b>

## 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)	(INDEX)
04/27/2007	*	0	0	0	2	163	0	22	2,442	321	4,312	
04/28/2007	*	0	0	0	1	0	14	0	7	---	657	2,409
04/29/2007	*	0	0	0	1	0	1	2	6	1,727	925	2,493
04/30/2007	*	0	0	0	0	145	0	0	16	---	2,197	2,950
05/01/2007	*	---	0	0	3	0	3	1	25	1,188	2,732	5,999
05/02/2007	*	---	0	0	6	131	---	2	214	---	4,114	9,238
05/03/2007	*	---	0	0	3	515	6	0	41	2,701	8,698	9,939
05/04/2007	*	---	0	0	2	1,523	4	0	82	---	11,641	17,953
05/05/2007	*	---	0	0	0	1,299	0	4	84	2,532	11,419	15,937
05/06/2007	*	---	0	0	2	2,428	0	1	57	---	10,246	19,871
05/07/2007	*	0	0	0	0	0	157	0	131	2,371	7,887	17,055
05/08/2007	*	0	0	0	0	864	333	2	190	---	9,444	21,207
05/09/2007		0	0	0	0	1,433	0	1	249	2,527	7,385	32,566
05/10/2007	*	0	---	0	3	558	0	3	74	---	14,614	22,085
05/11/2007		---	---	---	---	---	---	---	---	---	---	---
<hr/>												
<b>Total:</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>23</b>	<b>9,059</b>	<b>518</b>	<b>16</b>	<b>1,198</b>	<b>15,488</b>	<b>92,280</b>	<b>184,014</b>
<b># Days:</b>		<b>8</b>	<b>13</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>13</b>	<b>14</b>	<b>14</b>	<b>7</b>	<b>14</b>	<b>14</b>
<b>Average:</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>647</b>	<b>40</b>	<b>1</b>	<b>86</b>	<b>2,213</b>	<b>6,591</b>	<b>13,144</b>
<b>YTD</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>48</b>	<b>11,715</b>	<b>738</b>	<b>25</b>	<b>1,393</b>	<b>18,774</b>	<b>93,291</b>	<b>247,527</b>

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)	(INDEX)
04/27/2007	*	291	639	10	21	21,134	7,122	0	24	9,198	4,310	545
04/28/2007	*	147	1,160	22	10	14,472	3,057	0	18	---	3,722	897
04/29/2007	*	520	3,310	49	15	14,489	343	668	17	22,660	5,607	1,312
04/30/2007	*	385	2,787	31	226	31,128	313	304	50	---	6,589	2,139
05/01/2007	*	---	1,932	83	465	65,020	386	413	81	11,892	9,912	1,776
05/02/2007	*	---	1,630	76	884	85,148	---	344	37	---	13,670	1,070
05/03/2007	*	---	2,157	275	1,423	146,980	301	342	58	16,421	23,774	1,340
05/04/2007	*	---	1,345	290	1,286	141,148	207	731	76	---	27,742	3,475
05/05/2007	*	---	639	122	475	117,397	360	525	124	29,124	37,158	2,584
05/06/2007	*	---	520	59	300	72,291	431	598	131	---	55,594	3,381
05/07/2007	*	75	446	20	53	49,968	83,787	637	206	30,729	43,853	3,759
05/08/2007	*	226	1,337	24	74	53,564	62,102	364	360	---	39,743	7,041
05/09/2007		196	1,183	35	88	54,508	57,002	351	322	61,570	41,981	10,994
05/10/2007	*	43	---	41	122	58,015	29,935	840	160	---	61,303	21,872
05/11/2007		---	---	---	---	---	---	---	---	---	---	---
<hr/>												
<b>Total:</b>		<b>1,883</b>	<b>19,085</b>	<b>1,137</b>	<b>5,442</b>	<b>925,262</b>	<b>245,346</b>	<b>6,117</b>	<b>1,664</b>	<b>181,594</b>	<b>374,958</b>	<b>62,185</b>
<b># Days:</b>		<b>8</b>	<b>13</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>13</b>	<b>14</b>	<b>14</b>	<b>7</b>	<b>14</b>	<b>14</b>
<b>Average:</b>		<b>235</b>	<b>1,468</b>	<b>81</b>	<b>389</b>	<b>66,090</b>	<b>18,873</b>	<b>437</b>	<b>119</b>	<b>25,942</b>	<b>26,783</b>	<b>4,442</b>
<b>YTD</b>		<b>3,711</b>	<b>29,514</b>	<b>1,597</b>	<b>6,155</b>	<b>1,118,436</b>	<b>265,755</b>	<b>7,956</b>	<b>1,948</b>	<b>202,594</b>	<b>400,604</b>	<b>72,906</b>

## 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)	
04/27/2007	*	0	0	0	0	0	0	123	1,578	345	0	
04/28/2007	*	0	0	0	0	0	0	64	---	438	47	
04/29/2007	*	0	0	0	0	0	0	126	3,607	327	105	
04/30/2007	*	0	0	0	0	0	0	403	---	1,042	98	
05/01/2007	*	---	0	0	3	0	2	114	3,220	2,130	161	
05/02/2007	*	---	0	0	9	0	---	28	---	1,062	69	
05/03/2007	*	---	0	0	9	257	0	14	6,595	580	335	
05/04/2007	*	---	0	0	26	0	0	56	---	1,358	290	
05/05/2007	*	---	0	0	18	0	0	113	8,440	1,161	0	
05/06/2007	*	---	0	0	20	539	0	63	---	948	282	
05/07/2007	*	6	0	0	8	0	630	79	5,262	1,346	637	
05/08/2007	*	17	0	0	5	0	0	226	---	1,180	258	
05/09/2007		3	0	0	5	287	240	53	8,429	1,750	534	
05/10/2007	*	0	---	0	11	558	0	14	---	2,277	725	
05/11/2007		---	---	---	---	---	---	---	---	---	---	
<hr/>												
<b>Total:</b>		<b>26</b>	<b>0</b>	<b>0</b>	<b>114</b>	<b>1,641</b>	<b>872</b>	<b>0</b>	<b>1,476</b>	<b>37,131</b>	<b>15,944</b>	<b>3,541</b>
<b># Days:</b>		<b>8</b>	<b>13</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>13</b>	<b>14</b>	<b>14</b>	<b>7</b>	<b>14</b>	<b>14</b>
<b>Average:</b>		<b>3</b>	<b>0</b>	<b>0</b>	<b>8</b>	<b>117</b>	<b>67</b>	<b>0</b>	<b>105</b>	<b>5,304</b>	<b>1,139</b>	<b>253</b>
<b>YTD</b>		<b>27</b>	<b>0</b>	<b>0</b>	<b>115</b>	<b>2,201</b>	<b>895</b>	<b>6</b>	<b>3,313</b>	<b>39,778</b>	<b>17,579</b>	<b>3,794</b>

\* See sampling comments

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

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

### Definitions for Smolt Index Counts

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

IMN (Collection) = Imnaha River Trap : Collection Counts

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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



## Two Week Transportation Summary

Source: Fish Passage Center

Updated:

5/11/07 9:05 AM

**04/27/07 TO 05/11/07**

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
<b>LGR</b>	Sum of NumberCollected	700	874,499	6,700	1,200	687,101	1,570,200
	Sum of NumberBarged	652	732,715	6,519	1,190	604,368	1,345,444
	Sum of NumberBypassed	44	140,552	180	5	82,533	223,314
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of SampleMorts	0	18	0	0	9	27
	Sum of FacilityMorts	4	694	1	5	191	895
	Sum of ResearchMorts	0	520	0	0	0	520
	Sum of TotalProjectMorts	4	1,232	1	5	200	1,442
<b>LGS</b>	Sum of NumberCollected	841	78,903	320	544	152,659	233,267
	Sum of NumberBarged	629	27,572	0	143	53,440	81,784
	Sum of NumberBypassed	212	51,272	320	401	99,140	151,345
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of SampleMorts	0	8	0	0	5	13
	Sum of FacilityMorts	0	48	0	0	74	122
	Sum of ResearchMorts	0	3	0	0	0	3
	Sum of TotalProjectMorts	0	59	0	0	79	138
<b>LMN</b>	Sum of NumberCollected	26	3,351	12		4,412	7,801
	Sum of NumberBarged	0	0	0		0	0
	Sum of NumberBypassed	26	3,337	12		4,369	7,744
	Sum of Numbertrucked	0	0	0		0	0
	Sum of SampleMorts	0	14	0		35	49
	Sum of FacilityMorts	0	2	0		25	27
	Sum of ResearchMorts	0	0	0		0	0
	Sum of TotalProjectMorts	0	16	0		60	76
<b>MCN</b>	Sum of NumberCollected	1,304	583,620	9,162	21,979	107,504	723,569
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	1,290	583,357	9,161	21,958	107,330	723,096
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of SampleMorts	0	37	0	1	12	50
	Sum of FacilityMorts	14	221	1	20	162	418
	Sum of ResearchMorts	0	5	0	0	0	5
	Sum of TotalProjectMorts	14	263	1	21	174	473
Total Sum of NumberCollected		2,871	1,540,373	16,194	23,723	951,676	2,534,837
Total Sum of NumberBarged		1,281	760,287	6,519	1,333	657,808	1,427,228
Total Sum of NumberBypassed		1,572	778,518	9,673	22,364	293,372	1,105,499
Total Sum of Numbertrucked		0	0	0	0	0	0
Total Sum of SampleMorts		0	77	0	1	61	139
Total Sum of FacilityMorts		18	965	2	25	452	1,462
Total Sum of ResearchMorts		0	528	0	0	0	528
Total Sum of TotalProjectMorts		18	1,570	2	26	513	2,129

### YTD Transportation Summary

Source: Fish Passage Center

Updated:

5/11/07 9:05 AM

TO: 05/11/07

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
<b>LGR</b>	Sum of NumberCollected	1,670	1,239,408	8,260	1,560	798,582	2,049,480
	Sum of NumberBarged	804	823,566	6,827	1,199	630,385	1,462,781
	Sum of NumberBypassed	856	414,287	1,432	356	167,973	584,904
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	5	47	0	0	13	65
	Sum of FacilityMorts	5	808	1	5	211	1,030
	Sum of ResearchMorts	0	700	0	0	0	700
	Sum of TotalProjectMorts	10	1,555	1	5	224	1,795
<b>LGS</b>	Sum of NumberCollected	845	90,643	476	565	167,740	260,269
	Sum of NumberBarged	629	27,572	0	143	53,440	81,784
	Sum of NumberBypassed	215	62,987	476	420	114,218	178,316
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	0	23	0	1	7	31
	Sum of FacilityMorts	1	58	0	1	75	135
	Sum of ResearchMorts	0	3	0	0	0	3
	Sum of TotalProjectMorts	1	84	0	2	82	169
<b>LMN</b>	Sum of NumberCollected	26	6,789	16	2	5,230	12,063
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	26	6,771	16	2	5,185	12,000
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	0	18	0	0	37	55
	Sum of FacilityMorts	0	2	0	0	25	27
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	0	20	0	0	62	82
<b>MCN</b>	Sum of NumberCollected	1,479	642,387	11,101	23,554	120,051	798,572
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	1,464	642,056	11,100	23,530	119,867	798,017
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	1	68	0	1	17	87
	Sum of FacilityMorts	14	252	1	23	167	457
	Sum of ResearchMorts	0	11	0	0	0	11
	Sum of TotalProjectMorts	15	331	1	24	184	555
Total Sum of NumberCollected		4,020	1,979,227	19,853	25,681	1,091,603	3,120,384
Total Sum of NumberBarged		1,433	851,138	6,827	1,342	683,825	1,544,565
Total Sum of NumberBypassed		2,561	1,126,101	13,024	24,308	407,243	1,573,237
Total Sum of NumberTrucked		0	0	0	0	0	0
Total Sum of SampleMorts		6	156	0	2	74	238
Total Sum of FacilityMorts		20	1,120	2	29	478	1,649
Total Sum of ResearchMorts		0	714	0	0	0	714
Total Sum of TotalProjectMorts		26	1,990	2	31	552	2,601

**Cumulative Adult Passage at Mainstem Dams Through: 05/10**

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	05/10	49774	7506	50703	489	127414	4053	0	0	0	0	0	0	0	0	0	0	0	0
TDA	05/09	33098	4335	18849	145	79333	2034	0	0	0	0	0	0	0	0	0	0	0	0
JDA	05/10	25538	3757	12653	202	64394	1540	0	0	0	0	0	0	0	0	0	0	0	0
MCN	05/09	19365	1786	3381	87	52839	1125	0	0	0	0	0	0	0	0	0	0	0	0
IHR	05/10	14076	1226	1704	25	34182	711	0	0	0	0	0	0	0	0	0	0	0	0
LMN	05/10	10241	790	572	6	30461	531	0	0	0	0	0	0	0	0	0	0	0	0
LGS	05/10	7361	519	370	1	27149	478	0	0	0	0	0	0	0	0	0	0	0	0
LGR	05/10	5831	444	211	1	25626	386	0	0	0	0	0	0	0	0	0	0	0	0
PRD	05/08	1280	4	115	0	8779	11	0	0	0	0	0	0	0	0	0	0	0	0
RIS	05/09	915	24	45	8	4949	33	0	0	0	0	0	0	0	0	0	0	0	0
RRH	05/09	303	0	16	0	1558	1	0	0	0	0	0	0	0	0	0	0	0	0
WEL	05/09	43	0	1	0	484	1	0	0	0	0	0	0	0	0	0	0	0	0
WFA	05/09	8255	40	13545	38	-	-	0	0	0	0	-	-	0	0	0	0	-	-

DAM	Coho						Sockeye			Steelhead			
	2007		2006		10-Yr Avg.		2007	2006	10-Yr Avg.	2007	2006	10-Yr Avg.	Wild 2007
	Adult	Jack	Adult	Jack	Adult	Jack							
BON	0	0	0	0	0	0	0	0	0	2198	1964	2650	641
TDA	0	0	0	0	0	0	0	0	0	1082	1015	915	401
JDA	0	0	0	0	0	0	0	0	0	1696	2202	2893	714
MCN	0	0	0	0	0	0	0	0	0	1786	2058	1524	572
IHR	0	0	0	0	0	0	0	0	0	2243	2690	1777	619
LMN	0	0	0	0	0	0	0	0	0	2305	2829	1791	816
LGS	0	0	0	0	0	0	0	0	0	2184	2664	2051	732
LGR	0	0	0	0	0	0	0	0	0	10513	7544	6666	2355
PRD	0	0	0	0	0	0	0	0	0	21	19	3	0
RIS	0	0	0	0	0	0	0	0	0	34	50	30	14
RRH	0	0	0	0	0	0	0	0	0	118	127	109	57
WEL	0	0	0	0	0	0	0	0	0	16	15	15	8
WFA	2	0	0	0	0	-	-	0	0	6821	8624	-	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: 05/11/07

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