



Fish Passage Center

Weekly Report #09 - 14

June 12, 2009

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Summary of Events:

Water Supply: Precipitation throughout the Columbia Basin has varied between 26% and 579% of average at individual sub-basins over June. Precipitation above The Dalles has been 147% of average over June. Over the entire water year, precipitation has generally been near average.

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 2009 | | Water Year 2009 October 1, 2008 to June 8, 2009 | |
|-----------------------------------|----------------------|--------------|---|--------------|
| | June 1-8 | | Observed (inches) | % Average |
| | Observed (inches) | % Average | | |
| Columbia Above Coulee | 0.35 | 55 | 16.84 | 90 |
| Snake River Above Ice Harbor | 1.39 | 356 | 15.39 | 110 |
| Columbia Above The Dalles | 0.70 | 147 | 18.03 | 98 |
| Kootenai | 0.22 | 34 | 16.21 | 84 |
| Clark Fork | 0.57 | 110 | 13.40 | 105 |
| Flathead | 0.49 | 70 | 15.30 | 105 |
| Pend Oreille/ Spokane | 0.34 | 58 | 23.86 | 93 |
| Central Washington | 0.15 | 88 | 6.53 | 87 |
| Snake River Plain | 1.48 | 579 | 9.47 | 107 |
| Salmon/Boise/ Payette | 1.16 | 296 | 15.32 | 93 |
| Clearwater | 0.76 | 114 | 27.15 | 109 |
| SW Washington Cascades/Cowlitz | 0.21 | 26 | 57.86 | 91 |
| Willamette Valley | 0.67 | 111 | 46.81 | 86 |

Average snowpack in the Columbia River for basins above the Snake River confluence is 66% of average, for Snake River Basins the average snowpack is 65% of average, and for lower Columbia Basins between McNary and Bonneville Dam average snowpack is 64% of average.

Table 2 displays the May Final and June Final runoff volume forecasts for multiple reservoirs. The current forecast at The Dalles between January and July is 92000 Kaf (86% of average).

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

| Location | May Final | | June Final | |
|--|---------------------------------|---------------------------------------|---------------------------------|---------------------------------------|
| | % Average (1971- 2000) | Probable Runoff Volume (Kaf) | % Average (1971- 2000) | Probable Runoff Volume (Kaf) |
| The Dalles (Jan- July) | 85 | 91100 | 86 | 92000 |
| Grand Coulee (Jan- July) | 87 | 55000 | 85 | 53700 |
| Libby Res. Inflow, MT (Apr-Aug) | 84 | 5270 5209* | 80 | 5000 5062* |
| Hungry Horse Res. Inflow, MT (Jan- July) | 92 | 2050 | 93 | 2060 |
| Lower Granite Res. Inflow (Apr- July) | 97 | 20900 | 102 | 21900 |
| Brownlee Res. Inflow (Apr-July) | 79 | 5000 | 76 | 4780 |
| Dworshak Res. Inflow (Apr-July) | 99 98* | 2610 2631* | 98 | 2590 2597* |

* Denotes COE Forecast

The Biological Opinion flow period began on April 3rd in the lower Snake River (Lower Granite) and began 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 are 100 Kcfs at Lower Granite, 228 Kcfs at McNary, and 135 Kcfs at Priest Rapids. At Lower Granite flows from April 3-June 11 have averaged 111.4 Kcfs and 144.1 Kcfs over the last week, flows at Priest Rapids from April 10-June 11 averaged 138.9 Kcfs and 174.9 Kcfs over the last week, and flows at McNary have averaged 272.6 Kcfs between April 10-June 11 and 336.4 Kcfs over the last week.

Grand Coulee Reservoir is at 1282.8 feet (6-11-09) and has refilled 2.9 feet over the last week. Outflows at Grand Coulee have ranged between 125.9 and 152.2 Kcfs over the last week.

The Libby Reservoir is currently at elevation 2425.8 feet (6-11-09) and has refilled 3.0 feet last week. Outflows at Libby have been 13.4-26.3 Kcfs over the last week.

Hungry Horse is currently at an elevation of 3546.3 ft (6-11-09) and has refilled 3.5 feet last week. Outflows at Hungry Horse have been 3.2-4.2 Kcfs last week.

Dworshak is currently at an elevation of 1593.4 feet (6-11-09) and has refilled 5.1 feet last week. Outflows at Dworshak have ranged between 6.9-7.2 Kcfs over the last week.

The Brownlee Reservoir was at an elevation of 2075.5 feet on June 11th, 2009, drafting 1.1 feet last week. Outflows at Brownlee Dam have been 25.8 to 39.8 Kcfs over the last week.

Spill: Over the last ten days some spill has occurred at Dworshak Dam due to a unit outage. Spill at Dworshak has ranged between 1.8-3.0 Kcfs over the last ten days with TDG ranging between approximately 106.2 and 109.8 % TDG below Dworshak Dam.

The 2009 planned spring spill program at the lower Snake River Projects began on April 3 at 0001 hours and will continue through June 20, 2009. The following table shows the planned operations for 2009.

| 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 |

Flow in the Snake River has been decreasing but still remained relatively high over the past week. Over the last two days spill at Lower Granite Dam has been managed near the court order at approximately 20.5 Kcfs. Previous to this time, spill at Lower Granite Dam had been above the court order due to flows in excess of hydraulic and generation capacity. Over the last week, spill at Little Goose Dam generally did not meet the 30% court order. However, the 12-hour average for total dissolved gas in the Lower Monumental Dam forebay exceeded 115%, thus lowering the spill caps at Little Goose Dam. The test of bulk versus uniform spill patterns at Lower Monumental Dam ended on June 1st. Since this time, the spill pattern at Lower Monumental Dam has been bulk. For most of this week spill at Lower Monumental Dam has exceeded the gas cap due to flows in excess of hydraulic capacity. However, flows over the past two days have lowered enough to allow for Lower Monumental Dam to spill to the gas cap. The 12-hour average TDG at the Ice Harbor Dam forebay has exceeded the 115% criterion over the past week. The implementation of study-like conditions at Ice Harbor Dam began on April 30th, and spill management has attempted to alternate between 30% spill for 24 hours and 45 Kcfs daytime spill and gas cap nighttime spill, in two day blocks. Uncontrolled spill has also occurred at this project due to the high river flows but has been managed to the court order over the last day.

The 2009 spill program began at the lower Columbia River projects at 0001 hours on April 10th and will continue through June 30th. The following table shows the planned operations for 2009.

| Project | Day/Night Spill |
|------------|---|
| McNary | 40%/40% |
| John Day | 30%/30% on pre-test days; 30%/30% vs. 40%/40% on test days |
| The Dalles | 40%/40% |
| Bonneville | 100 Kcfs/100 Kcfs |

McNary Dam spill has exceeded the Court Order over most of the past week due to high flows. However, flows have become more manageable in the past couple of days as flows begin to recede. At John Day Dam the testing of 30% versus 40% spill has stopped and the TSW has been closed due to an avian predation issue. The current plan at John Day is to spill 30% without the TSW until more modeling work can be completed. John Day spill has been below the 30% level for most of the last week due to excessive TDG at the John Day tailrace. Previous to June 8th spill at The Dalles Dam was below the court ordered 40% level. This is due primarily to reduced spill caps that were implemented because of excess TDG in the Bonneville Dam Forebay prior to June 5th. Since June 8th, spill at The Dalles Dam has met the 40% court order although TDG did exceed the 115% limit at the Bonneville Forebay on June 9th. Bonneville Dam spill levels exceeded the court ordered 100 Kcfs over much of the past week. Only over the last day have flows decreased to the point where spill could be managed to 100 Kcfs. Total Dissolved Gas levels exceeded the 120% limit at Cascade-Island and the 115% limit at Camas-Washougal through most of the past week.

Gas bubble trauma (GBT) monitoring occurred at Lower Granite, Little Goose and Lower Monumental dams in the Snake River, Rock Island in the Mid Columbia River and at McNary and Bonneville dams in the lower Columbia. A few fish with minor signs of GBT were detected in the samples this past week at Little Goose and Bonneville dams.

Smolt Monitoring: Collection of Spring migrants continued to decline at all SMP sites in the Snake River and Lower Columbia this past week, while subyearling Chinook indices remained steady or increased. Sampling at the Imnaha Trap captured a decreasing number of yearling Chinook and steelhead. That reduction is consistent with other recent years as the spring migration winds down in the tributaries as well as in the hydro-system.

At Lower Granite Dam subyearling Chinook predominated in passage numbers followed by steelhead. PIT-tag detections at Lower Granite confirm that the acclimation released subyearling Chinook were arriving at the site over the past week. And releases at Hells Canyon and North Lapwai Valley Acclimation Ponds were also detected.

At Rock Island dam the daily passage indices for coho predominated in the sample. But coho indices

dropped below 1,000 per day over the past several days. Subyearling Chinook indices remained low compared to Coho but became higher than yearling Chinook over the past two weeks. Mid to late June is typically the time period when subyearlings predominate at Rock Island.

At McNary Dam subyearling Chinook became more prevalent in the sample than yearling Chinook over the past two weeks also. The passage index for subyearling Chinook averaged over 20,000 per day over the past week.

At Bonneville Dam all Spring migrant indices were down and subyearling Chinook passage predominated there two. The subyearling indices doubled from 4,000 per day average last week to over 8,000 per day this week.

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. Two releases of subyearling fall Chinook were scheduled to take place this week. In all, these releases were expected to total around 400,000 juveniles. Approximately 50% were to be released from the Lukes Gulch Acclimation Facility on the South Fork Clearwater River. The other 50% were to be released from the Cedar Flats Acclimation Facility on the Selway River. These were the only two releases that were scheduled to begin this week. Two releases of subyearling fall Chinook juveniles that began weeks ago continued this week. These releases are expected to run through mid-June.

Releases of subyearling fall Chinook surrogates to the Clearwater River are expected to begin on or around June 15th. These releases are expected to run through early July. Just over 117,000 fall Chinook surrogates are scheduled for release into the Clearwater River. Finally two releases of spring Chinook parr are scheduled to take place over the next two weeks. The first is a release of approximately 61,000 spring Chinook parr to the Lostine River on June 15th. The second is a release of about 305,000 spring Chinook parr to Meadow Creek, a tributary of the Selway River, on June 22nd. Because these are spring Chinook parr, these juveniles are not expected to out-migrate until spring of 2010. There are no other scheduled releases of juvenile salmonids to 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.

Ringold Springs Hatchery began releasing subyearling fall Chinook this week. This is a volitional release and is not expected to end until around June 25th. In all, about 3.45 million fall Chinook juveniles are expected to be released from Ringold Springs Hatchery, 94% of which are unmarked. This was the only release of juvenile salmonids that began this week or was scheduled to begin this week to this zone.

About 6.7 million subyearling fall Chinook are scheduled for release from Priest Rapids Hatchery, beginning on or around June 15th. This release is volitional and is expected to run through the end of June. About 72% of these subyearling fall Chinook are unmarked. In addition, nearly 750,000 subyearling summer Chinook are scheduled for release from Turtle Rock Hatchery into the Mid-Columbia River, beginning on or around June 15th. There are no other scheduled releases of juvenile salmonids to 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. There were no scheduled releases of anadromous salmonid juveniles to this zone over the past week. However, on June 18th approximately 4.5 million subyearling fall Chinook are scheduled for release from Little White Salmon NFH.

Adult Fish Passage: The summer Chinook count began June 1st at Bonneville Dam. Daily passage numbers at Bonneville Dam ranged between 1598 and 2949 adult summer Chinook in the last week. The 2009 summer Chinook count of 23750 is about 1.31 times greater than the 2008 count and 1.49 times greater than the 10 year average. The summer Chinook jack count of 10615 is about 3.35 times greater than the 2008 of 603 and about 5.94 times greater than the 10 year average.

At Willamette Falls Dam, 18799 adult spring Chinook have been counted so far this year. The 2009 adult spring Chinook count at Willamette Falls Dam is 2.89 times greater than the 2008 count of 6490. The adult spring Chinook count at McNary Dam ended on June 8th. At McNary Dam 70413 adult spring Chinook were counted this year. The 2009 adult spring Chinook count at McNary Dam is about 1.03 times greater than the 2008 count and only about 80.9% of the 10 year average. The 2009 McNary Dam spring Chinook jack count of 43328 is 3.57 times greater than the 2008 count of 12133 and 5.85 times greater than the 10 year

average count of 7409. Spring Chinook are counted at Ice Harbor Dam through June 11th each year. The 2009 Ice Harbor count of 55435 increased about 1.04 times when compared to the 2008 count. Additionally, it is about 93.9% of the 10 year average. The 2009 IHR spring Chinook jack of 28223 increased about 3.64 times compared to the 2008 count and 6.06 times compared to the 10 year average. The 2009 adult spring Chinook count at Lower Granite Dam does not end until June 17th. As of June 11th, the 2009 adult spring Chinook count at Lower Granite Dam was 42829. The LGR 2009 adult spring Chinook count was 96.8% of the 2008 count and 84.3% of the 10 year average. The 2009 Lower Granite spring Chinook jack count of 27876 is about 2.91 times greater than the 2008 count and 5.94 times greater than the 10 year average.

The Bonneville Dam 2009 steelhead count of 6750 is about 1.22 times greater than the 2008 count of 5490. The 2009 steelhead count is about 1.10 times greater than of the 10-year average of 6150. In the Snake River, this year's Lower Granite steelhead count of 10808 is 1.39 times greater than the 2008 count of 7795 and 1.39 times greater than the 10 year average of 7790. The 2009 wild steelhead count as of June 11th was 3389. At Rock Island Dam, as of June 9th, 108 adult steelhead have been counted and at Rocky Reach Dam, 435 adult steelhead have been counted so far this season. At Willamette Falls Dam, the 2009 count for steelhead was 9627, as of June 5th. This year's steelhead count is only about 79.7% of the 2008 count of 12084 at Willamette Falls Dam for the same date range.

Daily adult sockeye passage numbers at Bonneville Dam ranged between 237 and 1115 last week. The 2009 adult sockeye count at Bonneville Dam of 5398 is about 89.5% of the 2008 count of 6028 and about 1.81 times greater than the 10 year average of 2973.

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

| Date | Grand Coulee | | Chief Joseph | | Wells | | Rocky Reach | | Rock Island | | Wanapum | | Priest Rapids | |
|------------|--------------|-------|--------------|-------|-------|-------|-------------|-------|-------------|-------|---------|-------|---------------|-------|
| | Flow | Spill | Flow | Spill | Flow | Spill | Flow | Spill | Flow | Spill | Flow | Spill | Flow | Spill |
| 05/29/2009 | 129.9 | 0.0 | 138.3 | 0.0 | 158.0 | 9.5 | 158.0 | 0.0 | 167.2 | 16.5 | 172.9 | 44.6 | 172.6 | 33.2 |
| 05/30/2009 | 120.7 | 0.2 | 121.9 | 0.0 | 144.7 | 9.5 | 142.0 | 0.0 | 154.9 | 16.0 | 162.0 | 29.6 | 160.6 | 28.2 |
| 05/31/2009 | 120.8 | 0.3 | 115.3 | 0.0 | 140.7 | 8.6 | 136.2 | 0.0 | 150.1 | 14.6 | 155.8 | 25.3 | 152.8 | 26.2 |
| 06/01/2009 | 117.6 | 0.2 | 120.2 | 0.0 | 144.2 | 9.0 | 140.2 | 0.0 | 152.9 | 17.2 | 160.9 | 24.4 | 164.8 | 23.5 |
| 06/02/2009 | 127.2 | 0.2 | 130.8 | 0.0 | 148.1 | 9.1 | 143.6 | 0.0 | 155.2 | 16.5 | 159.1 | 29.2 | 148.6 | 21.4 |
| 06/03/2009 | 154.3 | 0.1 | 152.6 | 0.0 | 174.6 | 10.0 | 168.7 | 0.0 | 181.5 | 16.4 | 194.2 | 59.3 | 193.1 | 58.4 |
| 06/04/2009 | 160.5 | 0.2 | 159.2 | 4.1 | 179.3 | 10.4 | 174.8 | 0.0 | 186.8 | 19.1 | 187.4 | 65.4 | 190.5 | 68.5 |
| 06/05/2009 | 137.6 | 0.2 | 138.4 | 0.0 | 170.4 | 10.0 | 166.5 | 0.0 | 178.3 | 19.1 | 185.6 | 58.7 | 183.4 | 51.7 |
| 06/06/2009 | 125.9 | 8.8 | 127.5 | 40.2 | 146.7 | 10.0 | 143.0 | 0.0 | 155.5 | 17.1 | 163.7 | 39.3 | 173.2 | 36.3 |
| 06/07/2009 | 133.3 | 0.1 | 131.2 | 0.0 | 148.2 | 9.2 | 145.2 | 0.0 | 159.8 | 16.2 | 168.3 | 28.6 | 162.8 | 24.3 |
| 06/08/2009 | 152.2 | 4.7 | 150.4 | 12.7 | 174.7 | 10.0 | 170.0 | 0.0 | 177.0 | 17.7 | 187.8 | 57.0 | 183.8 | 52.4 |
| 06/09/2009 | 140.4 | 0.2 | 143.1 | 0.0 | 163.5 | 10.0 | 161.8 | 0.0 | 172.0 | 17.1 | 180.1 | 52.0 | 184.2 | 49.6 |
| 06/10/2009 | 147.3 | 0.1 | 146.2 | 0.0 | 164.1 | 10.0 | 160.2 | 14.5 | 170.4 | 34.1 | 182.6 | 44.5 | 176.6 | 30.7 |
| 06/11/2009 | 133.6 | 0.2 | 135.7 | 0.0 | 149.1 | 9.4 | 147.8 | 13.3 | 157.7 | 31.1 | 161.9 | 26.5 | 160.2 | 20.8 |

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

| Date | Dworshak | | Hells Canyon | | Lower Granite | | Little Goose | | Lower Monumental | | Ice Harbor | |
|------------|----------|-------|--------------|---------|---------------|-------|--------------|-------|------------------|-------|------------|-------|
| | Flow | Spill | Inflow | Outflow | Flow | Spill | Flow | Spill | Flow | Spill | Flow | Spill |
| 05/29/2009 | 4.4 | 0.0 | 22.3 | 24.9 | 160.9 | 57.2 | 149.9 | 40.6 | 158.8 | 42.5 | 162.5 | 78.8 |
| 05/30/2009 | 4.4 | 0.0 | 24.0 | 22.0 | 160.9 | 64.8 | 153.2 | 44.0 | 159.8 | 43.1 | 163.8 | 80.6 |
| 05/31/2009 | 4.4 | 0.0 | 22.9 | 21.6 | 169.3 | 76.7 | 159.7 | 50.7 | 167.8 | 50.5 | 169.6 | 86.3 |
| 06/01/2009 | 4.3 | 0.0 | 23.0 | 20.6 | 167.6 | 75.3 | 156.4 | 47.7 | 162.7 | 54.3 | 167.2 | 84.1 |
| 06/02/2009 | 6.6 | 2.2 | 23.0 | 23.6 | 160.1 | 63.8 | 151.0 | 41.6 | 158.5 | 49.1 | 163.5 | 80.8 |
| 06/03/2009 | 7.1 | 2.7 | 23.8 | 21.2 | 148.7 | 43.3 | 138.3 | 28.9 | 145.5 | 29.6 | 149.8 | 68.9 |
| 06/04/2009 | 7.1 | 2.8 | 26.5 | 25.0 | 142.5 | 40.5 | 132.4 | 25.8 | 138.3 | 24.1 | 140.7 | 65.9 |
| 06/05/2009 | 7.2 | 2.9 | 28.3 | 29.4 | 147.6 | 40.1 | 137.4 | 29.3 | 143.4 | 27.1 | 145.8 | 66.3 |
| 06/06/2009 | 7.2 | 2.9 | 32.3 | 37.4 | 158.2 | 49.7 | 148.0 | 40.2 | 153.6 | 37.1 | 157.3 | 77.1 |
| 06/07/2009 | 7.2 | 2.9 | 35.3 | 40.1 | 171.2 | 61.4 | 158.7 | 49.7 | 166.4 | 49.3 | 170.6 | 87.6 |
| 06/08/2009 | 7.0 | 2.7 | 36.8 | 41.5 | 158.0 | 48.2 | 147.7 | 41.6 | 154.1 | 36.9 | 158.7 | 77.4 |
| 06/09/2009 | 6.9 | 2.6 | 34.0 | 35.2 | 138.5 | 29.5 | 130.9 | 30.1 | 137.1 | 29.9 | 143.3 | 60.9 |
| 06/10/2009 | 7.0 | 2.7 | 31.6 | 31.5 | 125.6 | 20.6 | 117.4 | 30.0 | 119.6 | 20.0 | 120.2 | 39.5 |
| 06/11/2009 | 7.0 | 2.7 | --- | --- | 109.5 | 20.5 | 102.7 | 29.0 | 103.3 | 19.7 | 106.8 | 52.9 |

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 |
| 05/29/2009 | 349.8 | 174.1 | 345.1 | 110.8 | 349.4 | 115.3 | 343.5 | 149.4 | 74.8 | 107.3 |
| 05/30/2009 | 343.4 | 169.1 | 343.2 | 103.2 | 334.0 | 110.0 | 342.6 | 148.5 | 75.2 | 106.7 |
| 05/31/2009 | 340.7 | 165.3 | 345.8 | 94.8 | 331.4 | 104.4 | 345.2 | 148.8 | 75.7 | 108.8 |
| 06/01/2009 | 345.5 | 170.5 | 346.0 | 89.9 | 330.4 | 99.8 | 346.1 | 149.3 | 75.1 | 109.6 |
| 06/02/2009 | 335.0 | 167.1 | 340.9 | 90.0 | 331.7 | 100.0 | 343.8 | 149.5 | 74.4 | 107.8 |
| 06/03/2009 | 336.1 | 167.7 | 338.6 | 90.0 | 326.9 | 100.0 | 344.5 | 149.6 | 74.6 | 108.2 |
| 06/04/2009 | 350.4 | 174.0 | 335.3 | 90.0 | 325.5 | 100.0 | 344.3 | 149.5 | 74.8 | 107.9 |
| 06/05/2009 | 353.3 | 176.8 | 344.0 | 89.9 | 332.5 | 100.0 | 343.7 | 149.7 | 75.1 | 107.0 |
| 06/06/2009 | 348.5 | 172.3 | 338.4 | 89.9 | 336.5 | 104.8 | 343.0 | 149.3 | 74.8 | 106.8 |
| 06/07/2009 | 339.0 | 162.5 | 347.4 | 86.7 | 340.2 | 120.7 | 343.8 | 149.6 | 75.3 | 106.9 |
| 06/08/2009 | 352.9 | 176.0 | 353.0 | 84.9 | 341.4 | 135.7 | 354.4 | 158.7 | 75.6 | 108.3 |
| 06/09/2009 | 354.6 | 179.1 | 352.9 | 82.3 | 346.4 | 138.6 | 360.6 | 164.2 | 74.8 | 109.5 |
| 06/10/2009 | 311.0 | 135.7 | 307.2 | 80.0 | 306.4 | 123.0 | 338.4 | 144.1 | 74.4 | 107.7 |
| 06/11/2009 | 294.6 | 123.6 | 294.3 | 78.3 | 285.1 | 113.7 | 288.0 | 101.5 | 73.3 | 101.1 |

Gas Bubble Trauma Monitoring Results from Representative Sites on the Snake River and Columbia River

| Site | Date | Species | Number of Fish | Number w GBT signs | Number w Fin Signs | % Fin GBT | % Severe Fin GBT | Number of Fish with Fin GBT Listed by Highest Rank | | | |
|-----------------------------|----------|---------------------|----------------|--------------------|--------------------|-----------|------------------|--|--------|--------|--------|
| | | | | | | | | Rank 1 | Rank 2 | Rank 3 | Rank 4 |
| Lower Granite Dam | | | | | | | | | | | |
| | 06/01/09 | Chinook + Steelhead | 100 | 0 | 0 | 0.00% | 0.00% | 0 | 0 | 0 | 0 |
| | 06/10/09 | Chinook + Steelhead | 100 | 0 | 0 | 0.00% | 0.00% | 0 | 0 | 0 | 0 |
| Little Goose Dam | | | | | | | | | | | |
| | 06/01/09 | Chinook + Steelhead | 100 | 0 | 0 | 0.00% | 0.00% | 0 | 0 | 0 | 0 |
| | 06/08/09 | Chinook + Steelhead | 100 | 1 | 1 | 1.00% | 0.00% | 1 | 0 | 0 | 0 |
| Lower Monumental Dam | | | | | | | | | | | |
| | 06/02/09 | Chinook + Steelhead | 100 | 0 | 0 | 0.00% | 0.00% | 0 | 0 | 0 | 0 |
| | 06/09/09 | Chinook + Steelhead | 100 | 0 | 0 | 0.00% | 0.00% | 0 | 0 | 0 | 0 |
| McNary Dam | | | | | | | | | | | |
| | 06/05/09 | Chinook + Steelhead | 100 | 0 | 0 | 0.00% | 0.00% | 0 | 0 | 0 | 0 |
| | 06/07/09 | Chinook + Steelhead | 99 | 0 | 0 | 0.00% | 0.00% | 0 | 0 | 0 | 0 |
| | 06/11/09 | Chinook + Steelhead | 100 | 0 | 0 | 0.00% | 0.00% | 0 | 0 | 0 | 0 |
| Bonneville Dam | | | | | | | | | | | |
| | 06/02/09 | Chinook + Steelhead | 102 | 2 | 2 | 1.96% | 0.00% | 2 | 0 | 0 | 0 |
| | 06/06/09 | Chinook + Steelhead | 70 | 1 | 1 | 1.42% | 0.00% | 1 | 0 | 0 | 0 |
| | 06/09/09 | Chinook + Steelhead | 40 | 1 | 1 | 2.50% | 0.00% | 1 | 0 | 0 | 0 |
| Rock Island Dam | | | | | | | | | | | |
| | 06/02/09 | Chinook + Steelhead | 100 | 1 | 1 | 1.00% | 0.00% | 1 | 0 | 0 | 0 |
| | 06/04/09 | Chinook + Steelhead | 50 | 0 | 0 | 0.00% | 0.00% | 0 | 0 | 0 | 0 |
| | 06/09/09 | Chinook + Steelhead | 35 | 0 | 0 | 0.00% | 0.00% | 0 | 0 | 0 | 0 |

Hatchery Releases Last Two Weeks

| Hatchery Release Summary | | | | | | | | | |
|---|---------------------------|---------|------|-------|-------------------|----------|----------|---|---------------------------|
| From: | 6/12/2009 | | to | | 6/25/2009 | | | | |
| Agency | Hatchery | Species | Race | MigYr | NumRel | RelStart | RelEnd | RelSite | RelRiver |
| National Marine Fisheries Service National Marine Fisheries Service Total | Lyons Ferry Hatchery | CH0 | FA | 2009 | 117,362 | 06-15-09 | 07-03-09 | Big Canyon (Clearwater River) | Clearwater River M F |
| Nez Perce Tribe | Lookingglass Hatchery | CH0 | SP | 2010 | 61,000 | 06-15-09 | 07-01-09 | Lostine River | Wallowa River |
| Nez Perce Tribe | Nez Perce Tribal Hatchery | CH0 | FA | 2009 | 800,000 | 06-01-09 | 06-15-09 | Nez Perce Tribal Hatchery | Clearwater River M F |
| Nez Perce Tribe Nez Perce Tribe Total | Nez Perce Tribal Hatchery | CH0 | SP | 2010 | 305,000 | 06-22-09 | 06-26-09 | Meadow Creek - CLES | S Fk Clearwater River |
| U.S. Fish and Wildlife Service | Little White Salmon NFH | CH0 | FA | 2009 | 4,500,000 | 06-18-09 | 06-18-09 | Little White Salmon Hatchery | Little White Salmon River |
| U.S. Fish and Wildlife Service Total | | | | | 4,500,000 | | | | |
| Washington Dept. of Fish and Wildlife | Lyons Ferry Hatchery | CH0 | FA | 2009 | 200,000 | 06-01-09 | 06-15-09 | Lyons Ferry Hatchery | Snake River |
| Washington Dept. of Fish and Wildlife | Priest Rapids Hatchery | CH0 | FA | 2009 | 6,700,000 | 06-15-09 | 06-30-09 | Priest Rapids Hatchery Ringold Springs | Mid-Columbia River |
| Washington Dept. of Fish and Wildlife | Ringold Springs Hatchery | CH0 | FA | 2009 | 3,450,000 | 06-08-09 | 06-25-09 | Hatchery | Mid-Columbia River |
| Washington Dept. of Fish and Wildlife | Turtle Rock Hatchery | CH0 | SU | 2009 | 325,000 | 06-15-09 | 06-30-09 | Turtle Rock Hatchery | Mid-Columbia River |
| Washington Dept. of Fish and Wildlife | Turtle Rock Hatchery | CH0 | SU | 2009 | 418,000 | 06-15-09 | 06-30-09 | Turtle Rock Hatchery | Mid-Columbia River |
| Washington Dept. of Fish and Wildlife Total | | | | | 11,093,000 | | | | |
| Grand Total | | | | | 16,876,362 | | | | |

CH = Chinook, ST = Steelhead, CO = Coho, SO = Sockeye, CT = Cutthroat Trout, CM = Chum

Hatchery Releases Next Two Weeks

Hatchery Release Summary

From: 5/29/2009 to 06/11/09

| Agency | Hatchery | Species | Race | MigYr | NumRel | RelStart | RelEnd | RelSite | RelRiver |
|--|---------------------------|---------|------|-------|------------------|----------|----------|---|-----------------------|
| Nez Perce Tribe | Nez Perce Tribal Hatchery | CH0 | FA | 2009 | 200,000 | 06-10-09 | 06-10-09 | Cedar Flats Acclim. | Selway River |
| Nez Perce Tribe | Nez Perce Tribal Hatchery | CH0 | FA | 2009 | 200,000 | 06-10-09 | 06-10-09 | Lukes Gulch Acclim. | S Fk Clearwater River |
| Nez Perce Tribe | Nez Perce Tribal Hatchery | CH0 | FA | 2009 | 500,000 | 05-30-09 | 05-30-09 | Clearwater River Nez Perce Tribal | Snake River |
| Nez Perce Tribe | Nez Perce Tribal Hatchery | CH0 | FA | 2009 | 800,000 | 06-01-09 | 06-15-09 | Hatchery | Clearwater River M F |
| Nez Perce Tribe Total | | | | | 1,700,000 | | | | |
| Washington Dept. of Fish and Wildlife | Eastbank Hatchery | CH1 | SP | 2009 | 140,000 | 05-01-09 | 05-31-09 | Lake Wenatchee | Wenatchee River |
| Washington Dept. of Fish and Wildlife | Lyons Ferry Hatchery | CH0 | FA | 2009 | 200,000 | 05-15-09 | 06-01-09 | Couse Creek | Snake River |
| Washington Dept. of Fish and Wildlife | Lyons Ferry Hatchery | CH0 | FA | 2009 | 200,000 | 06-01-09 | 06-15-09 | Lyons Ferry Hatchery Ringold Springs | Snake River |
| Washington Dept. of Fish and Wildlife | Ringold Springs Hatchery | CH0 | FA | 2009 | 3,450,000 | 06-08-09 | 06-25-09 | Hatchery | Mid-Columbia River |
| Washington Dept. of Fish and Wildlife | Wells Hatchery | CH0 | SU | 2009 | 453,000 | 05-15-09 | 05-31-09 | Wells Hatchery | Mid-Columbia River |
| Washington Dept. of Fish and Wildlife | Wells Hatchery | ST | SU | 2009 | 110,000 | 04-20-09 | 05-31-09 | Methow River | Methow River |
| Washington Dept. of Fish and Wildlife | Wells Hatchery | ST | SU | 2009 | 110,000 | 04-20-09 | 05-31-09 | Twisp River | Methow River |
| Washington Dept. of Fish and Wildlife | Wells Hatchery | ST | SU | 2009 | 110,000 | 05-01-09 | 05-31-09 | Chewuch River | Methow River |
| Washington Dept. of Fish and Wildlife | Wells Hatchery | ST | SU | 2009 | 130,000 | 04-20-09 | 05-31-09 | Okanogan River | Okanogan River |
| Washington Dept. of Fish and Wildlife Total | | | | | 4,903,000 | | | | |
| Grand Total | | | | | 6,603,000 | | | | |

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>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> | <u>Avg</u> | <u>Avg</u> | <u>High</u> | <u>hr</u> |
| 5/29 | 99 | 99 | 99 | 24 | 126 | 127 | 128 | 23 | 109 | 109 | 109 | 24 | 106 | 107 | 109 | 23 | 108 | 108 | 108 | 24 |
| 5/30 | 99 | 100 | 100 | 24 | 126 | 127 | 128 | 23 | 110 | 110 | 111 | 24 | 107 | 108 | 110 | 23 | 108 | 109 | 109 | 24 |
| 5/31 | 100 | 100 | 101 | 24 | 126 | 127 | 127 | 24 | 110 | 110 | 110 | 24 | 107 | 108 | 109 | 24 | 109 | 109 | 110 | 24 |
| 6/1 | 99 | 99 | 99 | 24 | 126 | 127 | 128 | 24 | 110 | 110 | 110 | 5 | 106 | 107 | 109 | 24 | 109 | 109 | 110 | 24 |
| 6/2 | 99 | 101 | 102 | 24 | 127 | 127 | 128 | 22 | 110 | 110 | 111 | 13 | 108 | 109 | 111 | 22 | 108 | 109 | 109 | 24 |
| 6/3 | 104 | 107 | 107 | 24 | 126 | 127 | 128 | 22 | 110 | 111 | 111 | 24 | 109 | 110 | 111 | 22 | 109 | 109 | 110 | 24 |
| 6/4 | 106 | 106 | 107 | 24 | 128 | 128 | 129 | 21 | 112 | 112 | 113 | 24 | 110 | 111 | 112 | 21 | 109 | 110 | 110 | 24 |
| 6/5 | 107 | 108 | 108 | 24 | 127 | 128 | 128 | 21 | 113 | 113 | 114 | 24 | 111 | 112 | 113 | 21 | 110 | 111 | 111 | 24 |
| 6/6 | 106 | 107 | 107 | 24 | 126 | 127 | 127 | 23 | 113 | 113 | 114 | 24 | 111 | 112 | 113 | 23 | 110 | 111 | 111 | 24 |
| 6/7 | 105 | 106 | 106 | 24 | 126 | 126 | 127 | 21 | 113 | 114 | 115 | 24 | 111 | 112 | 112 | 21 | 110 | 110 | 110 | 24 |
| 6/8 | 105 | 106 | 106 | 24 | 124 | 125 | 126 | 24 | 114 | 114 | 115 | 24 | 111 | 112 | 113 | 24 | 109 | 109 | 110 | 11 |
| 6/9 | 105 | 105 | 106 | 24 | 122 | 123 | 125 | 20 | 114 | 114 | 115 | 24 | 111 | 112 | 113 | 20 | 110 | 111 | 111 | 24 |
| 6/10 | 105 | 106 | 106 | 24 | 121 | 122 | 122 | 20 | 115 | 115 | 115 | 24 | 111 | 112 | 113 | 20 | 111 | 111 | 111 | 24 |
| 6/11 | 105 | 105 | 106 | 24 | 121 | 121 | 122 | 20 | 115 | 115 | 115 | 24 | 111 | 112 | 113 | 20 | 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>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> | <u>Avg</u> | <u>Avg</u> | <u>High</u> | <u>hr</u> |
| 5/29 | 107 | 107 | 107 | 24 | 109 | 109 | 110 | 24 | 111 | 112 | 112 | 24 | 110 | 110 | 111 | 24 | 107 | 108 | 108 | 24 |
| 5/30 | 107 | 108 | 108 | 24 | 109 | 109 | 110 | 24 | 111 | 111 | 112 | 24 | 110 | 111 | 111 | 24 | 108 | 108 | 109 | 24 |
| 5/31 | 108 | 108 | 109 | 24 | 109 | 109 | 110 | 24 | 111 | 111 | 112 | 24 | 110 | 111 | 111 | 24 | 108 | 109 | 109 | 24 |
| 6/1 | 108 | 108 | 109 | 24 | 109 | 109 | 110 | 24 | 111 | 111 | 112 | 24 | 110 | 110 | 110 | 24 | 107 | 108 | 108 | 24 |
| 6/2 | 107 | 108 | 109 | 24 | 109 | 109 | 109 | 24 | 111 | 111 | 111 | 24 | 109 | 110 | 110 | 24 | 107 | 108 | 108 | 24 |
| 6/3 | 108 | 108 | 109 | 24 | 109 | 109 | 109 | 24 | 111 | 111 | 112 | 24 | 110 | 110 | 111 | 24 | 108 | 108 | 109 | 24 |
| 6/4 | 109 | 110 | 114 | 24 | 110 | 110 | 111 | 24 | 112 | 112 | 113 | 24 | 110 | 111 | 111 | 24 | 108 | 108 | 109 | 24 |
| 6/5 | 110 | 110 | 110 | 24 | 111 | 111 | 112 | 24 | 113 | 113 | 114 | 24 | 111 | 112 | 113 | 24 | 109 | 109 | 110 | 24 |
| 6/6 | 115 | 120 | 121 | 24 | 110 | 111 | 111 | 24 | 112 | 112 | 113 | 24 | 112 | 112 | 112 | 24 | 109 | 110 | 110 | 24 |
| 6/7 | 110 | 110 | 115 | 24 | 111 | 112 | 113 | 24 | 112 | 113 | 114 | 24 | 110 | 110 | 110 | 24 | 108 | 108 | 109 | 24 |
| 6/8 | 112 | 112 | 118 | 11 | 110 | 111 | 112 | 24 | 112 | 113 | 114 | 24 | 110 | 111 | 112 | 24 | 108 | 108 | 108 | 24 |
| 6/9 | 110 | 110 | 111 | 24 | 110 | 111 | 111 | 24 | 112 | 112 | 113 | 24 | 112 | 112 | 112 | 24 | 108 | 109 | 109 | 24 |
| 6/10 | 110 | 110 | 111 | 24 | 110 | 111 | 111 | 24 | 112 | 112 | 113 | 24 | 111 | 112 | 112 | 24 | 110 | 112 | 112 | 24 |
| 6/11 | 110 | 110 | 111 | 24 | 111 | 111 | 112 | 20 | 112 | 112 | 113 | 20 | 111 | 112 | 112 | 24 | 112 | 113 | 113 | 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>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> | <u>Avg</u> | <u>Avg</u> | <u>High</u> | <u>hr</u> |
| 5/29 | 108 | 110 | 110 | 24 | 111 | 112 | 113 | 23 | 113 | 114 | 117 | 24 | 113 | 114 | 116 | 24 | 113 | 114 | 115 | 24 |
| 5/30 | 109 | 110 | 110 | 24 | 112 | 113 | 114 | 24 | 112 | 113 | 114 | 24 | 113 | 113 | 113 | 24 | 113 | 113 | 114 | 24 |
| 5/31 | 109 | 110 | 110 | 24 | 112 | 113 | 115 | 24 | 112 | 114 | 115 | 24 | 113 | 113 | 113 | 24 | 112 | 112 | 114 | 24 |
| 6/1 | 109 | 109 | 110 | 24 | 112 | 112 | 113 | 24 | 112 | 113 | 114 | 24 | 113 | 113 | 113 | 24 | 112 | 112 | 113 | 24 |
| 6/2 | 108 | 109 | 109 | 24 | 111 | 112 | 114 | 24 | 110 | 111 | 111 | 24 | 112 | 113 | 115 | 24 | 111 | 111 | 112 | 24 |
| 6/3 | 109 | 109 | 110 | 24 | 111 | 111 | 112 | 24 | 111 | 112 | 113 | 24 | 114 | 116 | 118 | 24 | 112 | 113 | 116 | 24 |
| 6/4 | 109 | 110 | 111 | 24 | 112 | 113 | 113 | 24 | 112 | 113 | 114 | 24 | 116 | 118 | 119 | 24 | 117 | 117 | 118 | 24 |
| 6/5 | 110 | 111 | 111 | 24 | 113 | 113 | 114 | 24 | 112 | 114 | 116 | 24 | 114 | 115 | 116 | 24 | 113 | 114 | 116 | 24 |
| 6/6 | 110 | 110 | 110 | 24 | 112 | 113 | 113 | 24 | 110 | 111 | 112 | 24 | 113 | 113 | 114 | 24 | 111 | 111 | 113 | 24 |
| 6/7 | 109 | 109 | 109 | 24 | 111 | 112 | 112 | 24 | 111 | 111 | 113 | 24 | 112 | 112 | 112 | 24 | 111 | 111 | 112 | 24 |
| 6/8 | 109 | 109 | 110 | 24 | 111 | 111 | 112 | 24 | 111 | 112 | 114 | 24 | 113 | 113 | 114 | 24 | 111 | 112 | 113 | 24 |
| 6/9 | 110 | 111 | 112 | 24 | 112 | 113 | 113 | 24 | 112 | 113 | 116 | 24 | 113 | 113 | 114 | 24 | 112 | 113 | 113 | 24 |
| 6/10 | 111 | 112 | 113 | 24 | 115 | 116 | 117 | 24 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 |
| 6/11 | 111 | 112 | 112 | 24 | 115 | 116 | 116 | 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 | Priest R. Dnst | | | # | Pasco | | | # | Dworshak | | | # | Clrwtr-Peck | | | # | Anatone | | | # |
|------|----------------|----------|------|----|----------|----------|------|----|----------|----------|------|----|-------------|----------|------|----|----------|----------|------|----|
| | 24 h Avg | 12 h Avg | High | | 24 h Avg | 12 h Avg | High | | 24 h Avg | 12 h Avg | High | | 24 h Avg | 12 h Avg | High | | 24 h Avg | 12 h Avg | High | |
| 5/29 | 115 | 116 | 116 | 24 | 113 | 114 | 114 | 24 | 101 | 102 | 102 | 24 | 104 | 105 | 105 | 24 | 107 | 108 | 108 | 24 |
| 5/30 | 115 | 115 | 116 | 24 | 113 | 114 | 115 | 24 | 101 | 102 | 103 | 15 | 104 | 104 | 106 | 15 | 108 | 108 | 109 | 24 |
| 5/31 | 114 | 114 | 115 | 24 | 112 | 113 | 114 | 24 | 102 | 102 | 102 | 20 | 104 | 105 | 106 | 20 | 108 | 109 | 109 | 24 |
| 6/1 | 114 | 114 | 114 | 24 | 111 | 112 | 112 | 24 | 101 | 102 | 102 | 24 | 104 | 105 | 105 | 24 | 108 | 109 | 109 | 24 |
| 6/2 | 113 | 113 | 113 | 24 | 110 | 110 | 111 | 24 | 107 | 109 | 110 | 24 | 104 | 105 | 105 | 24 | 108 | 108 | 109 | 24 |
| 6/3 | 116 | 118 | 118 | 24 | 110 | 111 | 112 | 24 | 107 | 108 | 108 | 23 | 104 | 105 | 106 | 24 | 107 | 108 | 108 | 24 |
| 6/4 | 119 | 120 | 120 | 24 | 113 | 114 | 115 | 24 | 108 | 108 | 108 | 24 | 104 | 104 | 105 | 16 | 107 | 108 | 108 | 24 |
| 6/5 | 117 | 117 | 118 | 24 | 114 | 115 | 116 | 24 | 109 | 109 | 110 | 24 | 104 | 106 | 110 | 24 | 107 | 108 | 109 | 24 |
| 6/6 | 113 | 115 | 116 | 24 | 112 | 112 | 113 | 24 | 108 | 109 | 109 | 24 | 103 | 103 | 104 | 24 | 107 | 107 | 108 | 24 |
| 6/7 | 113 | 113 | 115 | 24 | 109 | 110 | 110 | 24 | 108 | 109 | 109 | 23 | 104 | 104 | 105 | 24 | 108 | 108 | 108 | 24 |
| 6/8 | 115 | 116 | 116 | 24 | 110 | 111 | 111 | 24 | 107 | 108 | 108 | 24 | 103 | 103 | 104 | 24 | 108 | 108 | 109 | 24 |
| 6/9 | 116 | 116 | 117 | 24 | 112 | 113 | 113 | 24 | 107 | 107 | 108 | 24 | 103 | 104 | 105 | 24 | 107 | 108 | 108 | 24 |
| 6/10 | --- | --- | --- | 0 | 112 | 113 | 113 | 24 | 107 | 108 | 108 | 24 | 103 | 104 | 104 | 24 | 106 | 107 | 107 | 24 |
| 6/11 | --- | --- | --- | 0 | 112 | 112 | 113 | 24 | 107 | 108 | 108 | 24 | 103 | 104 | 105 | 24 | 106 | 106 | 107 | 24 |

Total Dissolved Gas Saturation Data at Snake River Sites

| Date | Clrwtr-Lewiston | | | # | Lower Granite | | | # | L. Granite Tlwr | | | # | Little Goose | | | # | L. Goose Tlwr | | | # |
|------|-----------------|----------|------|----|---------------|----------|------|----|-----------------|----------|------|----|--------------|----------|------|----|---------------|----------|------|----|
| | 24 h Avg | 12 h Avg | High | | 24 h Avg | 12 h Avg | High | | 24 h Avg | 12 h Avg | High | | 24 h Avg | 12 h Avg | High | | 24 h Avg | 12 h Avg | High | |
| 5/29 | 103 | 104 | 104 | 24 | 107 | 107 | 107 | 24 | 122 | 123 | 124 | 24 | 126 | 135 | 139 | 24 | 117 | 117 | 118 | 24 |
| 5/30 | 103 | 104 | 105 | 15 | 107 | 107 | 108 | 24 | 124 | 125 | 125 | 24 | 117 | 118 | 118 | 24 | 118 | 119 | 120 | 24 |
| 5/31 | 104 | 104 | 105 | 20 | 107 | 108 | 108 | 24 | 127 | 127 | 127 | 24 | 119 | 119 | 120 | 24 | 119 | 120 | 120 | 24 |
| 6/1 | 103 | 104 | 104 | 24 | 107 | 107 | 108 | 24 | 127 | 127 | 127 | 24 | 121 | 122 | 122 | 24 | 119 | 119 | 120 | 24 |
| 6/2 | 103 | 104 | 105 | 24 | 107 | 107 | 107 | 24 | 123 | 125 | 126 | 24 | 120 | 121 | 121 | 24 | 118 | 118 | 119 | 24 |
| 6/3 | 103 | 104 | 105 | 24 | 107 | 107 | 108 | 24 | 118 | 119 | 121 | 24 | 121 | 121 | 122 | 24 | 117 | 117 | 117 | 24 |
| 6/4 | 103 | 103 | 104 | 24 | 107 | 108 | 108 | 24 | 118 | 118 | 118 | 24 | 119 | 120 | 121 | 24 | 116 | 116 | 117 | 24 |
| 6/5 | 104 | 105 | 105 | 24 | 107 | 108 | 108 | 24 | 118 | 118 | 119 | 24 | 116 | 116 | 116 | 24 | 115 | 116 | 116 | 24 |
| 6/6 | 102 | 103 | 103 | 24 | 107 | 107 | 108 | 24 | 120 | 122 | 122 | 24 | 113 | 114 | 116 | 24 | 117 | 118 | 120 | 24 |
| 6/7 | 102 | 103 | 104 | 24 | 105 | 105 | 106 | 24 | 123 | 124 | 124 | 24 | 111 | 112 | 113 | 24 | 119 | 119 | 119 | 24 |
| 6/8 | 102 | 103 | 104 | 24 | 106 | 107 | 107 | 24 | 119 | 120 | 121 | 24 | 115 | 116 | 117 | 24 | 117 | 118 | 119 | 24 |
| 6/9 | 103 | 104 | 104 | 24 | 107 | 107 | 107 | 24 | 114 | 117 | 118 | 24 | 116 | 116 | 116 | 23 | 115 | 116 | 116 | 24 |
| 6/10 | 103 | 104 | 104 | 24 | 107 | 107 | 107 | 24 | 111 | 111 | 111 | 24 | 114 | 115 | 115 | 24 | 115 | 115 | 116 | 24 |
| 6/11 | 102 | 104 | 105 | 24 | 106 | 107 | 107 | 24 | 110 | 111 | 111 | 24 | 112 | 113 | 113 | 24 | 114 | 114 | 115 | 24 |

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

| Date | Lower Mon. | | | # | L. Mon. Tlwr | | | # | Ice Harbor | | | # | Ice Harbor Tlwr | | | # | McNary-Oregon | | | # |
|------|------------|----------|------|----|--------------|----------|------|----|------------|----------|------|----|-----------------|----------|------|----|---------------|----------|------|---|
| | 24 h Avg | 12 h Avg | High | | 24 h Avg | 12 h Avg | High | | 24 h Avg | 12 h Avg | High | | 24 h Avg | 12 h Avg | High | | 24 h Avg | 12 h Avg | High | |
| 5/29 | 118 | 118 | 119 | 24 | 119 | 119 | 120 | 24 | 118 | 118 | 118 | 24 | 120 | 121 | 121 | 24 | --- | --- | --- | 0 |
| 5/30 | 119 | 119 | 119 | 24 | 120 | 121 | 122 | 24 | 118 | 118 | 119 | 24 | 121 | 122 | 123 | 24 | --- | --- | --- | 0 |
| 5/31 | 119 | 120 | 120 | 24 | 121 | 122 | 122 | 24 | 118 | 118 | 118 | 24 | 121 | 122 | 123 | 24 | --- | --- | --- | 0 |
| 6/1 | 121 | 121 | 122 | 24 | 121 | 121 | 123 | 24 | 119 | 119 | 119 | 24 | 122 | 122 | 123 | 24 | --- | --- | --- | 0 |
| 6/2 | 119 | 120 | 120 | 24 | 120 | 120 | 121 | 24 | 118 | 118 | 119 | 24 | 121 | 122 | 123 | 24 | --- | --- | --- | 0 |
| 6/3 | 119 | 119 | 120 | 24 | 121 | 122 | 122 | 24 | 118 | 118 | 119 | 24 | 120 | 120 | 121 | 24 | --- | --- | --- | 0 |
| 6/4 | 119 | 120 | 120 | 24 | 121 | 121 | 122 | 24 | 119 | 119 | 120 | 24 | 119 | 119 | 120 | 24 | --- | --- | --- | 0 |
| 6/5 | 118 | 118 | 119 | 24 | 121 | 121 | 123 | 24 | 118 | 119 | 119 | 24 | 120 | 121 | 122 | 24 | --- | --- | --- | 0 |
| 6/6 | 115 | 116 | 117 | 24 | 119 | 120 | 121 | 24 | 116 | 117 | 118 | 24 | 122 | 122 | 123 | 24 | --- | --- | --- | 0 |
| 6/7 | 116 | 118 | 119 | 24 | 120 | 120 | 123 | 24 | 115 | 115 | 116 | 24 | 122 | 123 | 123 | 24 | --- | --- | --- | 0 |
| 6/8 | 118 | 118 | 119 | 24 | 121 | 122 | 122 | 24 | 117 | 118 | 118 | 24 | 120 | 121 | 122 | 24 | --- | --- | --- | 0 |
| 6/9 | 118 | 118 | 118 | 24 | 118 | 119 | 120 | 24 | 118 | 118 | 118 | 24 | 119 | 120 | 120 | 24 | --- | --- | --- | 0 |
| 6/10 | 117 | 117 | 118 | 24 | 118 | 118 | 119 | 24 | 117 | 117 | 118 | 24 | 117 | 117 | 119 | 24 | --- | --- | --- | 0 |
| 6/11 | 116 | 116 | 116 | 24 | 117 | 117 | 118 | 24 | 116 | 116 | 116 | 24 | 117 | 118 | 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 | <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>#</u> | <u>24 h</u> | <u>12 h</u> | <u>#</u> | <u>24h</u> | <u>12h</u> | <u>#</u> | <u>24h</u> | <u>12h</u> | <u>#</u> | <u>24h</u> | <u>12h</u> | <u>#</u> | | | | | |
| | Avg | Avg | High | hr | Avg | Avg | High | hr | Avg | Avg | High | hr | Avg | AVG | High | hr | | | | |
| 5/29 | 113 | 114 | 115 | 24 | 120 | 120 | 120 | 24 | 115 | 115 | 116 | 24 | 118 | 118 | 118 | 24 | 115 | 115 | 116 | 24 |
| 5/30 | 114 | 115 | 116 | 24 | 119 | 119 | 120 | 24 | 117 | 118 | 118 | 24 | 117 | 118 | 118 | 24 | 115 | 116 | 117 | 24 |
| 5/31 | 115 | 115 | 117 | 24 | 119 | 120 | 120 | 24 | 118 | 118 | 119 | 24 | 116 | 117 | 117 | 24 | 116 | 117 | 117 | 24 |
| 6/1 | 115 | 115 | 116 | 24 | 120 | 120 | 121 | 24 | 118 | 118 | 118 | 24 | 117 | 117 | 117 | 24 | 116 | 117 | 117 | 24 |
| 6/2 | 113 | 114 | 115 | 24 | 119 | 119 | 120 | 24 | 117 | 117 | 118 | 24 | 117 | 117 | 117 | 24 | 116 | 116 | 116 | 24 |
| 6/3 | 112 | 113 | 113 | 24 | 119 | 119 | 120 | 24 | 117 | 117 | 117 | 24 | 116 | 117 | 117 | 24 | 116 | 116 | 117 | 24 |
| 6/4 | 112 | 113 | 114 | 24 | 119 | 119 | 120 | 24 | 116 | 116 | 117 | 24 | 118 | 119 | 120 | 24 | 115 | 115 | 116 | 24 |
| 6/5 | 113 | 114 | 114 | 24 | 119 | 120 | 120 | 24 | 115 | 116 | 116 | 24 | 120 | 120 | 120 | 24 | 115 | 115 | 115 | 23 |
| 6/6 | 113 | 114 | 114 | 24 | 119 | 119 | 120 | 24 | 113 | 114 | 115 | 24 | 120 | 120 | 120 | 24 | 111 | 112 | 112 | 24 |
| 6/7 | 111 | 111 | 112 | 24 | 119 | 119 | 120 | 24 | 110 | 110 | 111 | 24 | 120 | 120 | 120 | 24 | 111 | 112 | 112 | 24 |
| 6/8 | 111 | 112 | 112 | 24 | 120 | 120 | 120 | 24 | 109 | 109 | 110 | 24 | 120 | 120 | 121 | 24 | 111 | 112 | 113 | 24 |
| 6/9 | 111 | 112 | 113 | 24 | 120 | 120 | 120 | 24 | 111 | 112 | 112 | 24 | 120 | 120 | 120 | 24 | 112 | 113 | 114 | 24 |
| 6/10 | 112 | 113 | 114 | 24 | 118 | 118 | 119 | 24 | 113 | 114 | 114 | 24 | 119 | 120 | 120 | 24 | 112 | 113 | 114 | 24 |
| 6/11 | 113 | 114 | 114 | 24 | 118 | 118 | 118 | 24 | 114 | 114 | 115 | 24 | 119 | 120 | 120 | 24 | 113 | 114 | 114 | 24 |

Total Dissolved Gas Saturation Data at Lower Columbia River Sites

| Date | <u>The Dalles Dnst</u> | | | <u>Bonneville</u> | | | <u>Warrendale</u> | | | <u>Camas\Washougal</u> | | | <u>Cascade Island</u> | | | | | | | |
|------|------------------------|-------------|----------|-------------------|-------------|----------|-------------------|------------|----------|------------------------|------------|----------|-----------------------|------------|----------|----|-----|-----|-----|----|
| | <u>24 h</u> | <u>12 h</u> | <u>#</u> | <u>24 h</u> | <u>12 h</u> | <u>#</u> | <u>24h</u> | <u>12h</u> | <u>#</u> | <u>24h</u> | <u>12h</u> | <u>#</u> | <u>24h</u> | <u>12h</u> | <u>#</u> | | | | | |
| | Avg | Avg | High | hr | Avg | Avg | High | hr | Avg | Avg | High | hr | Avg | Avg | High | hr | | | | |
| 5/29 | 118 | 119 | 120 | 24 | 119 | 119 | 120 | 24 | --- | --- | --- | 0 | 120 | 121 | 121 | 24 | 124 | 124 | 124 | 24 |
| 5/30 | 118 | 118 | 119 | 24 | 117 | 118 | 119 | 24 | --- | --- | --- | 0 | 119 | 120 | 121 | 24 | 124 | 124 | 124 | 24 |
| 5/31 | 118 | 119 | 119 | 24 | 116 | 116 | 117 | 24 | --- | --- | --- | 0 | 118 | 119 | 120 | 24 | 124 | 124 | 124 | 24 |
| 6/1 | 118 | 118 | 119 | 24 | 116 | 116 | 117 | 24 | --- | --- | --- | 0 | 117 | 118 | 119 | 24 | 124 | 124 | 124 | 24 |
| 6/2 | 118 | 118 | 118 | 24 | 116 | 117 | 117 | 24 | --- | --- | --- | 0 | 117 | 118 | 118 | 24 | 124 | 124 | 124 | 24 |
| 6/3 | 118 | 118 | 118 | 24 | 117 | 117 | 118 | 24 | --- | --- | --- | 0 | 118 | 119 | 119 | 24 | 124 | 124 | 124 | 24 |
| 6/4 | 117 | 118 | 118 | 24 | 117 | 117 | 118 | 24 | --- | --- | --- | 0 | 118 | 119 | 119 | 24 | 124 | 124 | 124 | 24 |
| 6/5 | 117 | 117 | 118 | 23 | 114 | 115 | 116 | 24 | --- | --- | --- | 0 | 117 | 117 | 117 | 24 | 124 | 124 | 124 | 24 |
| 6/6 | 115 | 115 | 116 | 24 | 110 | 111 | 112 | 24 | --- | --- | --- | 0 | 114 | 114 | 115 | 24 | 123 | 123 | 124 | 24 |
| 6/7 | 116 | 116 | 117 | 24 | 110 | 111 | 112 | 24 | --- | --- | --- | 0 | 113 | 114 | 114 | 24 | 123 | 124 | 124 | 24 |
| 6/8 | 117 | 118 | 119 | 24 | 113 | 114 | 115 | 24 | --- | --- | --- | 0 | 115 | 116 | 117 | 24 | 124 | 124 | 124 | 24 |
| 6/9 | 118 | 118 | 119 | 24 | 116 | 117 | 117 | 24 | --- | --- | --- | 0 | 118 | 118 | 119 | 24 | 124 | 124 | 124 | 24 |
| 6/10 | 118 | 118 | 118 | 24 | 115 | 115 | 116 | 24 | --- | --- | --- | 0 | 117 | 117 | 117 | 24 | 123 | 124 | 124 | 24 |
| 6/11 | 118 | 118 | 119 | 24 | 113 | 113 | 114 | 24 | --- | --- | --- | 0 | 115 | 115 | 116 | 24 | 119 | 120 | 120 | 24 |

Two-Week Summary of Passage Indices

Source: Fish Passage Center

Updated: 6/12/2009 8:53

Two-Week Summary of Passage Indices

* One or more of the sites on this date had an incomplete or biased sample.

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

For clip information see: <http://www.fpc.org/CurrentDaily/catch.htm>

For sockeye and yearling chinook (Snake only) race information see: <http://www.fpc.org/smoltqueries/currentsmppsubmitdata.asp>

| COMBINED YEARLING CHINOOK | | | | | | | | | | | |
|----------------------------------|---------------|---------------|---------------|---------------|------------------|------------------|----------------|----------------|------------------|------------------|------------------|
| Date | WTB (Coll) | IMN (Coll) | GRN (Coll) | LEW (Coll) | LGR (INDEX) | LGS (INDEX) | LMN (INDEX) | RIS (INDEX) | MCN (INDEX) | JDA (INDEX) | BO2 (INDEX) |
| 05/29/2009 | --- | 3 | --- | --- | 7,294 | 7,017 | 8,298 | 159 | 17,768 | 13,943 | 42,290 |
| 05/30/2009 | * | 12 | --- | --- | 2,211 | 4,087 | 4,006 | 142 | --- | 16,452 | 31,834 |
| 05/31/2009 | --- | 22 | --- | --- | 3,495 | 3,809 | 2,959 | 113 | 21,599 | 18,702 | 26,507 |
| 06/01/2009 | * | 4 | --- | --- | 732 | 4,356 | 2,639 | 33 | --- | 10,629 | 19,870 |
| 06/02/2009 | * | 4 | --- | --- | 1,803 | 2,031 | 1,074 | 15 | 20,725 | 11,432 | 13,714 |
| 06/03/2009 | * | 5 | --- | --- | 2,510 | 1,421 | 1,032 | 23 | --- | 7,779 | 6,918 |
| 06/04/2009 | * | 19 | --- | --- | 1,401 | 1,529 | 1,537 | 20 | 4,652 | 7,716 | 7,911 |
| 06/05/2009 | * | 21 | --- | --- | 1,057 | 1,001 | 669 | 30 | --- | 9,467 | 6,898 |
| 06/06/2009 | * | --- | --- | --- | 1,848 | 1,162 | 750 | 11 | 5,692 | 8,822 | 3,720 |
| 06/07/2009 | * | --- | --- | --- | 1,741 | 2,292 | 145 | 11 | --- | 11,983 | 3,210 |
| 06/08/2009 | --- | 2 | --- | --- | 1,145 | 581 | 676 | 9 | 4,423 | 8,045 | 2,712 |
| 06/09/2009 | * | 11 | --- | --- | 2,241 | 682 | 746 | 2 | --- | 3,661 | 3,757 |
| 06/10/2009 | --- | 14 | --- | --- | 982 | 394 | 286 | 8 | 4,182 | 3,446 | 2,586 |
| 06/11/2009 | * | --- | --- | --- | 1,203 | 340 | 293 | 0 | --- | 2,493 | 1,532 |
| 06/12/2009 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Total: | 0 | 117 | 0 | 0 | 29,663 | 30,702 | 25,110 | 576 | 79,041 | 134,570 | 173,459 |
| # Days: | 0 | 11 | 0 | 0 | 14 | 14 | 14 | 14 | 7 | 14 | 14 |
| Average: | 0 | 11 | 0 | 0 | 2,119 | 2,193 | 1,794 | 41 | 11,292 | 9,612 | 12,390 |
| YTD | 37,667 | 44,510 | 20,207 | 29,713 | 3,076,669 | 2,429,113 | 447,076 | 9,170 | 2,227,342 | 1,008,706 | 1,701,057 |

| COMBINED SUBYEARLING CHINOOK | | | | | | | | | | | |
|-------------------------------------|---------------|---------------|---------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|------------------|
| Date | WTB (Coll) | IMN (Coll) | GRN (Coll) | LEW (Coll) | LGR (INDEX) | LGS (INDEX) | LMN (INDEX) | RIS (INDEX) | MCN (INDEX) | JDA (INDEX) | BO2 (INDEX) |
| 05/29/2009 | --- | 0 | --- | --- | 49,082 | 34,777 | 5,195 | 13 | 2,540 | 644 | 2,324 |
| 05/30/2009 | * | 0 | --- | --- | 51,007 | 25,777 | 8,564 | 6 | --- | 806 | 3,625 |
| 05/31/2009 | --- | 1 | --- | --- | 41,592 | 44,977 | 8,944 | 16 | 3,272 | 1,924 | 4,718 |
| 06/01/2009 | * | 0 | --- | --- | 37,708 | 65,655 | 14,328 | 88 | --- | 1,698 | 4,166 |
| 06/02/2009 | * | 0 | --- | --- | 50,793 | 82,923 | 21,901 | 55 | 5,886 | 1,703 | 4,730 |
| 06/03/2009 | * | 1 | --- | --- | 26,664 | 31,300 | 25,548 | 69 | --- | 1,975 | 4,330 |
| 06/04/2009 | * | 0 | --- | --- | 19,475 | 78,872 | 24,770 | 107 | 8,589 | 2,894 | 5,704 |
| 06/05/2009 | * | 0 | --- | --- | 29,937 | 54,730 | 21,222 | 110 | --- | 5,115 | 6,331 |
| 06/06/2009 | * | --- | --- | --- | 19,375 | 19,984 | 23,059 | 47 | 21,322 | 4,653 | 6,096 |
| 06/07/2009 | * | --- | --- | --- | 32,027 | 59,021 | 20,074 | 73 | --- | 8,250 | 6,780 |
| 06/08/2009 | --- | 0 | --- | --- | 26,567 | 46,763 | 21,911 | 36 | 24,358 | 10,564 | 4,825 |
| 06/09/2009 | * | 0 | --- | --- | 39,503 | 43,190 | 26,141 | 31 | --- | 16,184 | 9,619 |
| 06/10/2009 | --- | 0 | --- | --- | 22,346 | 29,994 | 15,085 | 11 | 24,054 | 15,036 | 11,538 |
| 06/11/2009 | * | --- | --- | --- | 17,498 | 30,590 | 7,254 | 10 | --- | 15,079 | 13,462 |
| 06/12/2009 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Total: | 0 | 2 | 0 | 0 | 463,574 | 648,553 | 243,996 | 672 | 90,021 | 86,525 | 88,248 |
| # Days: | 0 | 11 | 0 | 0 | 14 | 14 | 14 | 14 | 7 | 14 | 14 |
| Average: | 0 | 0 | 0 | 0 | 33,112 | 46,325 | 17,428 | 48 | 12,860 | 6,180 | 6,303 |
| YTD | 0 | 15 | 15 | 545 | 559,057 | 759,434 | 250,555 | 1,033 | 98,453 | 89,550 | 2,073,386 |

Two-Week Summary of Passage Indices

| COMBINED COHO | | | | | | | | | | | |
|-----------------|---------------|---------------|---------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Date | WTB (Coll) | IMN (Coll) | GRN (Coll) | LEW (Coll) | LGR (INDEX) | LGS (INDEX) | LMN (INDEX) | RIS (INDEX) | MCN (INDEX) | JDA (INDEX) | BO2 (INDEX) |
| 05/29/2009 | --- | 0 | --- | --- | 3,191 | 1,618 | 337 | 1,981 | 5,182 | 4,160 | 12,393 |
| 05/30/2009 | * | --- | 0 | --- | 632 | 928 | 414 | 1,832 | --- | 4,195 | 15,444 |
| 05/31/2009 | * | --- | 0 | --- | 699 | 1,546 | 482 | 2,456 | 7,374 | 5,323 | 8,614 |
| 06/01/2009 | * | --- | 0 | --- | 915 | 1,035 | 226 | 1,985 | --- | 4,127 | 7,897 |
| 06/02/2009 | * | --- | 0 | --- | 1,081 | 573 | 150 | 1,633 | 8,357 | 3,931 | 4,804 |
| 06/03/2009 | * | --- | 0 | --- | 1,098 | 135 | 129 | 1,480 | --- | 3,161 | 2,292 |
| 06/04/2009 | * | --- | 0 | --- | 140 | 627 | 369 | 1,812 | 1,482 | 2,894 | 3,385 |
| 06/05/2009 | * | --- | 0 | --- | 352 | 497 | 0 | 1,438 | --- | 6,193 | 4,158 |
| 06/06/2009 | * | --- | --- | --- | 685 | 515 | 62 | 1,293 | 2,436 | 10,902 | 1,969 |
| 06/07/2009 | * | --- | --- | --- | 606 | 501 | 145 | 1,416 | --- | 10,769 | 1,851 |
| 06/08/2009 | * | --- | 0 | --- | 763 | 144 | 406 | 420 | 2,619 | 14,447 | 1,167 |
| 06/09/2009 | * | --- | 0 | --- | 420 | 136 | 391 | 263 | --- | 5,820 | 2,235 |
| 06/10/2009 | * | --- | 0 | --- | 246 | 723 | 215 | 327 | 2,268 | 7,251 | 1,649 |
| 06/11/2009 | * | --- | --- | --- | 301 | 67 | 110 | 298 | --- | 5,278 | 1,856 |
| 06/12/2009 | * | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Total: | | 0 | 0 | 0 | 11,129 | 9,045 | 3,436 | 18,634 | 29,718 | 88,451 | 69,714 |
| # Days: | | 0 | 11 | 0 | 14 | 14 | 14 | 14 | 7 | 14 | 14 |
| Average: | | 0 | 0 | 0 | 795 | 646 | 245 | 1,331 | 4,245 | 6,318 | 4,980 |
| YTD | | 0 | 0 | 0 | 332 | 79,135 | 71,222 | 14,891 | 35,193 | 114,010 | 208,646 |

| COMBINED STEELHEAD | | | | | | | | | | | |
|--------------------|---------------|---------------|---------------|---------------|----------------|------------------|------------------|----------------|----------------|----------------|----------------|
| Date | WTB (Coll) | IMN (Coll) | GRN (Coll) | LEW (Coll) | LGR (INDEX) | LGS (INDEX) | LMN (INDEX) | RIS (INDEX) | MCN (INDEX) | JDA (INDEX) | BO2 (INDEX) |
| 05/29/2009 | --- | 115 | --- | --- | 26,441 | 20,760 | 9,782 | 286 | 5,729 | 9,949 | 8,985 |
| 05/30/2009 | * | --- | 150 | --- | 23,688 | 16,244 | 7,667 | 202 | --- | 4,580 | 7,249 |
| 05/31/2009 | * | --- | 83 | --- | 22,893 | 19,536 | 7,156 | 243 | 4,384 | 4,295 | 6,808 |
| 06/01/2009 | * | --- | 45 | --- | 23,064 | 19,573 | 9,728 | 207 | --- | 3,157 | 3,703 |
| 06/02/2009 | * | --- | 63 | --- | 21,252 | 17,330 | 7,596 | 222 | 4,800 | 2,906 | 2,890 |
| 06/03/2009 | * | --- | 65 | --- | 22,116 | 4,204 | 8,194 | 162 | --- | 2,797 | 1,115 |
| 06/04/2009 | * | --- | 62 | --- | 15,972 | 18,051 | 8,482 | 188 | 1,287 | 1,808 | 1,203 |
| 06/05/2009 | * | --- | 89 | --- | 20,569 | 13,302 | 5,169 | 120 | --- | 2,899 | 1,291 |
| 06/06/2009 | * | --- | --- | --- | 28,549 | 14,928 | 5,187 | 84 | 2,665 | 4,155 | 1,157 |
| 06/07/2009 | * | --- | --- | --- | 31,421 | 20,418 | 4,203 | 64 | --- | 7,328 | 802 |
| 06/08/2009 | * | --- | 5 | --- | 38,094 | 9,307 | 5,748 | 61 | 1,365 | 10,550 | 442 |
| 06/09/2009 | * | --- | 13 | --- | 16,319 | 14,834 | 8,702 | 52 | --- | 9,270 | 1,166 |
| 06/10/2009 | * | --- | 19 | --- | 6,200 | 17,345 | 6,557 | 52 | 1,239 | 3,329 | 1,078 |
| 06/11/2009 | * | --- | --- | --- | 6,614 | 7,486 | 3,919 | 49 | --- | 2,447 | 619 |
| 06/12/2009 | * | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Total: | | 0 | 709 | 0 | 303,192 | 213,318 | 98,090 | 1,992 | 21,469 | 69,470 | 38,508 |
| # Days: | | 0 | 11 | 0 | 14 | 14 | 14 | 14 | 7 | 14 | 14 |
| Average: | | 0 | 64 | 0 | 21,657 | 15,237 | 7,006 | 142 | 3,067 | 4,962 | 2,751 |
| YTD | | 1,833 | 23,917 | 9,611 | 8,297 | 4,466,891 | 3,533,185 | 715,008 | 17,302 | 796,112 | 926,294 |

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) |
| 05/29/2009 | --- | 0 | --- | --- | 608 | 809 | 742 | 153 | 10,165 | 2,121 | 2,788 |
| 05/30/2009 * | --- | 0 | --- | --- | 632 | 396 | 760 | 165 | --- | 3,999 | 4,413 |
| 05/31/2009 | --- | 0 | --- | --- | 350 | 706 | 619 | 339 | 10,124 | 2,908 | 3,618 |
| 06/01/2009 * | --- | 0 | --- | --- | 915 | 591 | 528 | 210 | --- | 3,483 | 2,802 |
| 06/02/2009 * | --- | 0 | --- | --- | 360 | 573 | 300 | 284 | 14,100 | 2,235 | 1,766 |
| 06/03/2009 * | --- | 0 | --- | --- | 157 | 270 | 323 | 157 | --- | 1,885 | 677 |
| 06/04/2009 * | --- | 0 | --- | --- | 280 | 501 | 369 | 105 | 2,072 | 2,020 | 1,104 |
| 06/05/2009 * | --- | 0 | --- | --- | 423 | 249 | 304 | 59 | --- | 2,509 | 1,890 |
| 06/06/2009 * | --- | --- | --- | --- | 411 | 129 | 62 | 51 | 2,842 | 6,024 | 844 |
| 06/07/2009 * | --- | --- | --- | --- | 76 | 430 | 362 | 47 | --- | 3,889 | 1,472 |
| 06/08/2009 | --- | 0 | --- | --- | 0 | 75 | 68 | 44 | 1,066 | 2,428 | 851 |
| 06/09/2009 * | --- | 0 | --- | --- | 140 | 137 | 196 | 38 | --- | 2,107 | 259 |
| 06/10/2009 | --- | 0 | --- | --- | 0 | 0 | 0 | 22 | 1,239 | 1,249 | 545 |
| 06/11/2009 * | --- | --- | --- | --- | 120 | 135 | 0 | 37 | --- | 1,278 | 530 |
| 06/12/2009 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Total: | 0 | 0 | 0 | 0 | 4,472 | 5,001 | 4,633 | 1,711 | 41,608 | 38,135 | 23,559 |
| # Days: | 0 | 11 | 0 | 0 | 14 | 14 | 14 | 14 | 7 | 14 | 14 |
| Average: | 0 | 0 | 0 | 0 | 319 | 357 | 331 | 122 | 5,944 | 2,724 | 1,683 |
| YTD | 170 | 0 | 0 | 177 | 45,976 | 45,865 | 21,412 | 4,383 | 186,506 | 108,538 | 72,411 |

* 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:

6/12/09 8:58 AM

05/29/09 TO 06/12/09

| | | Species | | | | | |
|--------------------------------|--------------------------|-----------|--------|--------|---------|--------|-------------|
| Site | Data | CH0 | CH1 | CO | ST | SO | Grand Total |
| LGR | Sum of NumberCollected | 303,000 | 19,601 | 7,200 | 198,749 | 2,850 | 531,400 |
| | Sum of NumberBarged | 301,683 | 19,239 | 7,195 | 194,595 | 2,832 | 525,544 |
| | Sum of NumberBypassed | 0 | 244 | 0 | 4,085 | 0 | 4,329 |
| | Sum of Numbertrucked | 0 | 0 | 0 | 0 | 0 | 0 |
| | Sum of SampleMorts | 59 | 3 | 1 | 2 | 1 | 66 |
| | Sum of FacilityMorts | 1,258 | 28 | 4 | 61 | 17 | 1,368 |
| | Sum of ResearchMorts | 0 | 87 | 0 | 6 | 0 | 93 |
| | Sum of TotalProjectMorts | 1,317 | 118 | 5 | 69 | 18 | 1,527 |
| LGS | Sum of NumberCollected | 475,525 | 22,280 | 6,622 | 156,615 | 3,643 | 664,685 |
| | Sum of NumberBarged | 469,848 | 21,681 | 6,622 | 156,508 | 3,633 | 658,292 |
| | Sum of NumberBypassed | 830 | 0 | 0 | 0 | 0 | 830 |
| | Sum of Numbertrucked | 0 | 0 | 0 | 0 | 0 | 0 |
| | Sum of SampleMorts | 42 | 7 | 0 | 0 | 1 | 50 |
| | Sum of FacilityMorts | 4,825 | 592 | 0 | 107 | 9 | 5,533 |
| | Sum of ResearchMorts | 3 | 0 | 0 | 0 | 0 | 3 |
| | Sum of TotalProjectMorts | 4,870 | 599 | 0 | 107 | 10 | 5,586 |
| LMN | Sum of NumberCollected | 185,190 | 18,519 | 2,570 | 73,697 | 3,400 | 283,376 |
| | Sum of NumberBarged | 184,385 | 18,474 | 2,568 | 72,129 | 3,350 | 280,906 |
| | Sum of NumberBypassed | 590 | 19 | 0 | 1,502 | 0 | 2,111 |
| | Sum of Numbertrucked | 0 | 0 | 0 | 0 | 0 | 0 |
| | Sum of SampleMorts | 6 | 3 | 0 | 0 | 0 | 9 |
| | Sum of FacilityMorts | 236 | 23 | 2 | 64 | 0 | 325 |
| | Sum of ResearchMorts | 0 | 0 | 0 | 0 | 0 | 0 |
| | Sum of TotalProjectMorts | 242 | 26 | 2 | 64 | 0 | 334 |
| MCN | Sum of NumberCollected | 45,477 | 39,581 | 14,911 | 10,734 | 20,811 | 131,514 |
| | Sum of NumberBarged | 0 | 0 | 0 | 0 | 0 | 0 |
| | Sum of NumberBypassed | 45,334 | 39,456 | 14,900 | 10,723 | 20,803 | 131,216 |
| | Sum of Numbertrucked | 0 | 0 | 0 | 0 | 0 | 0 |
| | Sum of SampleMorts | 12 | 19 | 0 | 2 | 1 | 34 |
| | Sum of FacilityMorts | 131 | 104 | 11 | 9 | 7 | 262 |
| | Sum of ResearchMorts | 0 | 2 | 0 | 0 | 0 | 2 |
| | Sum of TotalProjectMorts | 143 | 125 | 11 | 11 | 8 | 298 |
| Total Sum of NumberCollected | | 1,009,192 | 99,981 | 31,303 | 439,795 | 30,704 | 1,610,975 |
| Total Sum of NumberBarged | | 955,916 | 59,394 | 16,385 | 423,232 | 9,815 | 1,464,742 |
| Total Sum of NumberBypassed | | 46,754 | 39,719 | 14,900 | 16,310 | 20,803 | 138,486 |
| Total Sum of Numbertrucked | | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Sum of SampleMorts | | 119 | 32 | 1 | 4 | 3 | 159 |
| Total Sum of FacilityMorts | | 6,450 | 747 | 17 | 241 | 33 | 7,488 |
| Total Sum of ResearchMorts | | 3 | 89 | 0 | 6 | 0 | 98 |
| Total Sum of TotalProjectMorts | | 6,572 | 868 | 18 | 251 | 36 | 7,745 |

YTD Transportation Summary

Source: Fish Passage Center

Updated:

6/12/09 8:58 AM

TO: 06/12/09

| | | Species | | | | | |
|--------------------------------|--------------------------|-----------|-----------|---------|---------|-----------|-------------|
| Site | Data | CH0 | CH1 | CO | SO | ST | Grand Total |
| LGR | Sum of NumberCollected | 369,182 | 2,348,862 | 56,258 | 33,076 | 3,395,275 | 6,202,653 |
| | Sum of NumberBarged | 351,279 | 1,497,158 | 54,192 | 25,805 | 1,807,474 | 3,735,908 |
| | Sum of NumberBypassed | 15,038 | 847,954 | 1,951 | 7,068 | 1,587,387 | 2,459,398 |
| | Sum of NumberTrucked | 0 | 0 | 0 | 0 | 0 | 0 |
| | Sum of SampleMorts | 89 | 117 | 2 | 21 | 29 | 258 |
| | Sum of FacilityMorts | 2,776 | 2,728 | 113 | 182 | 366 | 6,165 |
| | Sum of ResearchMorts | 0 | 1,035 | 0 | 0 | 19 | 1,054 |
| | Sum of TotalProjectMorts | 2,865 | 3,880 | 115 | 203 | 414 | 7,477 |
| LGS | Sum of NumberCollected | 556,880 | 1,717,480 | 52,448 | 33,302 | 2,496,490 | 4,856,600 |
| | Sum of NumberBarged | 541,937 | 900,523 | 45,621 | 25,429 | 972,323 | 2,485,833 |
| | Sum of NumberBypassed | 5,275 | 751,922 | 2,825 | 5,826 | 1,460,070 | 2,225,918 |
| | Sum of NumberTrucked | 0 | 0 | 0 | 0 | 0 | 0 |
| | Sum of SampleMorts | 44 | 49 | 0 | 4 | 11 | 108 |
| | Sum of FacilityMorts | 4,844 | 1,612 | 2 | 43 | 290 | 6,791 |
| | Sum of ResearchMorts | 3 | 4 | 0 | 0 | 0 | 7 |
| | Sum of TotalProjectMorts | 4,891 | 1,665 | 2 | 47 | 301 | 6,906 |
| LMN | Sum of NumberCollected | 190,070 | 319,654 | 11,028 | 15,839 | 508,604 | 1,045,195 |
| | Sum of NumberBarged | 189,157 | 310,636 | 11,013 | 15,663 | 497,435 | 1,023,904 |
| | Sum of NumberBypassed | 590 | 8,781 | 9 | 114 | 10,911 | 20,405 |
| | Sum of NumberTrucked | 0 | 0 | 0 | 0 | 0 | 0 |
| | Sum of SampleMorts | 6 | 14 | 0 | 2 | 4 | 26 |
| | Sum of FacilityMorts | 244 | 236 | 5 | 6 | 238 | 729 |
| | Sum of ResearchMorts | 0 | 0 | 0 | 0 | 0 | 0 |
| | Sum of TotalProjectMorts | 250 | 250 | 5 | 8 | 242 | 755 |
| MCN | Sum of NumberCollected | 50,154 | 1,290,369 | 62,634 | 104,012 | 463,436 | 1,970,605 |
| | Sum of NumberBarged | 0 | 0 | 0 | 0 | 0 | 0 |
| | Sum of NumberBypassed | 50,005 | 1,288,842 | 62,584 | 103,956 | 463,273 | 1,968,660 |
| | Sum of NumberTrucked | 0 | 0 | 0 | 0 | 0 | 0 |
| | Sum of SampleMorts | 13 | 129 | 1 | 2 | 13 | 158 |
| | Sum of FacilityMorts | 135 | 1,375 | 49 | 53 | 147 | 1,759 |
| | Sum of ResearchMorts | 1 | 23 | 0 | 1 | 3 | 28 |
| | Sum of TotalProjectMorts | 149 | 1,527 | 50 | 56 | 163 | 1,945 |
| Total Sum of NumberCollected | | 1,166,286 | 5,676,365 | 182,368 | 186,229 | 6,863,805 | 14,075,053 |
| Total Sum of NumberBarged | | 1,082,373 | 2,708,317 | 110,826 | 66,897 | 3,277,232 | 7,245,645 |
| Total Sum of NumberBypassed | | 70,908 | 2,897,499 | 67,369 | 116,964 | 3,521,641 | 6,674,381 |
| Total Sum of NumberTrucked | | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Sum of SampleMorts | | 152 | 309 | 3 | 29 | 57 | 550 |
| Total Sum of FacilityMorts | | 7,999 | 5,951 | 169 | 284 | 1,041 | 15,444 |
| Total Sum of ResearchMorts | | 4 | 1,062 | 0 | 1 | 22 | 1,089 |
| Total Sum of TotalProjectMorts | | 8,155 | 7,322 | 172 | 314 | 1,120 | 17,083 |

Cumulative Adult Passage at Mainstem Dams Through: 06/11

| DAM | EndDate | Spring Chinook | | | | | | Summer Chinook | | | | | | Fall Chinook | | | | | |
|-----|---------|----------------|-------|--------|-------|------------|-------|----------------|-------|-------|------|------------|------|--------------|------|-------|------|------------|------|
| | | 2009 | | 2008 | | 10-Yr Avg. | | 2009 | | 2008 | | 10-Yr Avg. | | 2009 | | 2008 | | 10-Yr Avg. | |
| | | Adult | Jack | Adult | Jack | Adult | Jack | Adult | Jack | Adult | Jack | Adult | Jack | Adult | Jack | Adult | Jack | Adult | Jack |
| BON | 06/11 | 114525 | 66631 | 125543 | 17554 | 160243 | 11507 | 23750 | 10615 | 18109 | 3170 | 15898 | 1786 | 0 | 0 | 0 | 0 | 0 | 0 |
| TDA | 06/11 | 93908 | 53646 | 95438 | 15801 | 113852 | 9048 | 15716 | 5376 | 9798 | 2131 | 9504 | 1060 | 0 | 0 | 0 | 0 | 0 | 0 |
| JDA | 06/11 | 76806 | 49733 | 81772 | 14925 | 95147 | 7579 | 9129 | 3832 | 7090 | 1419 | 6012 | 589 | 0 | 0 | 0 | 0 | 0 | 0 |
| MCN | 06/11 | 70413 | 43328 | 68080 | 12133 | 86998 | 7409 | 3430 | 1429 | 3581 | 855 | 2778 | 338 | 0 | 0 | 0 | 0 | 0 | 0 |
| IHR | 06/11 | 55435 | 28223 | 53142 | 7757 | 59017 | 4657 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| LMN | 06/11 | 64000 | 19220 | 52225 | 6622 | 55638 | 4118 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| LGS | 06/11 | 46802 | 22403 | 46437 | 7169 | 51519 | 4131 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| LGR | 06/11 | 42829 | 27876 | 44226 | 9592 | 50817 | 4696 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PRD | 06/09 | 11875 | 2787 | 11379 | 578 | 17445 | 591 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| RIS | 06/09 | 10120 | 5229 | 10454 | 916 | 13677 | 932 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| RRH | 06/09 | 4729 | 861 | 3569 | 314 | 5175 | 368 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WEL | 06/10 | 2473 | 1399 | 2108 | 352 | 2905 | 218 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WFA | 06/05 | 18799 | 1668 | 6490 | 94 | - | - | 0 | 0 | 0 | 0 | - | - | 0 | 0 | 0 | 0 | - | - |

| DAM | Coho | | | | | | Sockeye | | | Steelhead | | | |
|-----|-------|------|-------|------|------------|------|---------|------|------------|-----------|-------|------------|------|
| | 2009 | | 2008 | | 10-Yr Avg. | | 2009 | 2008 | 10-Yr Avg. | 2009 | 2008 | 10-Yr Avg. | Wild |
| | Adult | Jack | Adult | Jack | Adult | Jack | | | | | | | 2009 |
| BON | 0 | 0 | 0 | 0 | 0 | 0 | 5398 | 6028 | 2973 | 6750 | 5490 | 6150 | 1402 |
| TDA | 0 | 0 | 0 | 0 | 0 | 0 | 3398 | 2180 | 1537 | 1874 | 1767 | 1846 | 555 |
| JDA | 0 | 0 | 0 | 0 | 0 | 0 | 2213 | 904 | 1009 | 3754 | 3806 | 3474 | 1778 |
| MCN | 0 | 0 | 0 | 0 | 0 | 0 | 532 | 158 | 393 | 2671 | 2587 | 2142 | 1122 |
| IHR | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 3194 | 3214 | 2122 | 1071 |
| LMN | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 4857 | 4055 | 2232 | 2266 |
| LGS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5432 | 2627 | 2273 | 2197 |
| LGR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10808 | 7795 | 7790 | 3389 |
| PRD | 0 | 0 | 0 | 0 | 0 | 0 | 32 | 0 | 30 | 60 | 164 | 28 | 0 |
| RIS | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 108 | 312 | 69 | 55 |
| RRH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 435 | 556 | 181 | 214 |
| WEL | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 1 | 0 | 80 | 186 | 43 | 56 |
| WFA | 0 | 0 | 0 | 0 | - | - | 0 | 0 | - | 9627 | 12084 | - | - |

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: 05/21/09

BON counts from January 1, 2009 to March 14, 2009 (our traditional counts begin March 15):

| Year | Chinook Adult | Chinook Jack | Steelhead | Wild Steelhead |
|------|---------------|--------------|-----------|----------------|
| 2009 | 19 | -1 | 321 | 109 |
| 2008 | 42 | 0 | 568 | 273 |