



Fish Passage Center

Weekly Report #08 - 15

June 13, 2008

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Summary of Events:

Water Supply: Precipitation throughout the Columbia Basin has varied between 143% and 254% of average at individual sub-basins over the beginning of June. Precipitation above The Dalles has been 172% of average over June. Over the entire water year, precipitation has generally been near or above 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 2008 June 1-9 | | Water Year 2008 October 1, 2007 to June 1-9 2008 | |
|-----------------------------------|-----------------------------|--------------|--|--------------|
| | Observed (inches) | % Average | Observed (inches) | % Average |
| Columbia Above Coulee | 1.23 | 171 | 19.14 | 102 |
| Snake River Above Ice Harbor | 0.64 | 145 | 14.52 | 103 |
| Columbia Above The Dalles | 0.92 | 172 | 18.88 | 102 |
| Kootenai | 1.15 | 156 | 17.85 | 93 |
| Clark Fork | 1.13 | 196 | 13.96 | 109 |
| Flathead | 1.40 | 177 | 17.45 | 103 |
| Pend Oreille/ Spokane | 1.17 | 178 | 26.28 | 102 |
| Central Washington | 0.29 | 152 | 5.56 | 74 |
| Snake River Plain | 0.41 | 143 | 7.59 | 85 |
| Salmon/Boise/ Payette | 0.65 | 148 | 17.09 | 103 |
| Clearwater | 1.52 | 204 | 25.97 | 104 |
| SW Washington Cascades/Cowlitz | 2.25 | 254 | 59.83 | 94 |
| Willamette Valley | 1.50 | 223 | 56.7 | 104 |

Snowpack within the Columbia Basin is average or above for this time of year. Snowpack in the Columbia River for basins above the Snake River

confluence is 204% of average, for Snake River Basins snowpack is 152% of average, and for lower Columbia Basins between McNary and Bonneville Dam average snowpack is 2081% of average (according to the Natural Resource Conservation Service).

Table 2 displays the May Final and June Final runoff volume forecasts for multiple reservoirs. Water Supply Forecasts were generally similar between the May Final and June Final forecasts with Hungry Horse showing the biggest change by increasing 8% from the May Final to June Final forecast. The current forecast (June Final) at The Dalles between January and July is 98200 Kaf (92% 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) | 91 | 97300 | 92 | 98200 |
| Grand Coulee (Jan-July) | 95 | 59800 | 95 | 59800 |
| Libby Res. Inflow, MT (Jan-July) | 92 | 5820 | 93 | 5840 |
| Hungry Horse Res. Inflow, MT (Jan- July) | 91 | 2030 | 99 | 2200 |
| Lower Granite Res. Inflow (Apr- July) | 101 | 21800 | 102 | 21900 |
| Brownlee Res. Inflow (Apr-July) | 77 | 4860 | 76 | 4780 |
| Dworshak Res. Inflow (Apr-July) | 111 | 2930 | 109 | 2880 |

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, 260 Kcfs at McNary, and 135 Kcfs at Priest Rapids. Generally, flows have been high over the last week. Flows at Lower Granite Dam have averaged 127.6 Kcfs over the last week and 95.3 Kcfs over the spring season, flows at Priest Rapids have averaged 228.1 Kcfs over the last week and 156.3 Kcfs over the spring season and flows at McNary have averaged 367.7 Kcfs over the last week and 271.5 Kcfs over the spring season.

Grand Coulee Reservoir is at 1278.5 feet (6-12-08) and has refilled 5.7 feet over the last week. Outflows at Grand Coulee have ranged between 180.4 and 209.4 Kcfs over the last week. Inflows last week have ranged between 227.5 Kcfs and 255.6 Kcfs.

The Libby Reservoir is currently at elevation 2431.7 feet (6-12-08) and refilled 1.5 feet last week. Outflows at Libby have increased in accordance with SOR 2008 FWS1, which has asked for specific sturgeon and bull trout flow augmentation operations, currently outflows are at 26.3 Kcfs. Inflows at Libby have ranged between 26.5 Kcfs to 38.9 Kcfs over the last week.

Hungry Horse is currently at an elevation of 3544.2 ft (6-12-08) and has refilled 1.9 feet last week. Outflows were 6.7-8.9 Kcfs last week; inflows ranged between 4.0 Kcfs and 15.3 Kcfs last week.

Dworshak is currently at an elevation of 1581.6 feet (6-12-08) and refilled 8.0 feet last week. Outflows at Dworshak have recently been increased to full powerhouse capacity with slightly more than 5 Kcfs of spill. Total Outflow (powerhouse and spill) at Dworshak Dam has been approximately 15 Kcfs. The increase in outflow at Dworshak is due to a flood control operation based on remaining snow-covered area in the Dworshak Basin. Dworshak inflows have ranged between 20.8 and 24.1 Kcfs last week.

The Brownlee Reservoir is at an elevation of 2075.4 feet (June 12th, 2008), drafting 0.5 feet last week. Outflows at Brownlee Dam have been 23.2 to 26.7 Kcfs over the last week. Inflows at Brownlee Dam have been 22.2 to 27.0 Kcfs over the last week.

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 |

High runoff continues to result in flows in excess of hydraulic and generation capacity throughout the lower Snake River. Dworshak Dam outflow was increased for flood control and flow has exceeded hydraulic capacity. In addition, Dworshak was added to the spill priority list in order to manage excess spill system-wide. Two units were out of service at Lower Granite Dam limiting powerhouse capacity to about 70 Kcfs until Thursday, when one additional unit came back into service. Flows continue to exceed hydraulic capacity at this project. Little Goose Dam has spilled between 30% and 41% of daily flow over the past week. At Lower Monumental Dam spill has been in excess of hydraulic capacity or generation capacity and has ranged from 28 to 52 Kcfs of daily average flow over the week, with higher hourly spill during nighttime hours. Spill at Ice Harbor Dam has generally exceeded the court ordered levels of 45 Kcfs daytime spill and gas cap nighttime spill alternating with 30% instantaneous spill, and is spill in excess of hydraulic capacity and excess generation.

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%; 30%/30% vs 40%/40% test |
| The Dalles | 40%/40% |
| Bonneville | 100 Kcfs/100 Kcfs |

Spill at McNary exceeded the Court ordered spill this past week. At John Day Dam spill has ranged between 30% of daily average flow and 40% of daily average flow. Spill at The Dalles Dam met, or exceeded the Court Order. Spill at Bonneville Dam has exceeded the Court Order, ranging between a daily average of 125 Kcfs and 204 Kcfs, and is spill in excess of hydraulic and generation capacity. Total dissolved gas has exceeded the waiver limits at most sites due to spill in excess of hydraulic capacity and generation needs.

Gas bubble trauma (GBT) monitoring occurred at all the Snake River monitoring sites, Rock Island Dam in the Mid Columbia, and at McNary and Bonneville dams in the lower Columbia. At Lower Granite and McNary dams, signs of GBT have not been observed, while at Little Goose 3% of fish sampled had minor signs; at Lower Monumental 12% of fish sampled had signs with 1% of those being Rank 2; at Rock Island 2% were detected with minor signs; and at Bonneville about 1% of fish were detected with minor signs of GBT.

Smolt Monitoring: Spring migrant indices continued to decrease in the Snake River over the past week, while subyearling Chinook numbers have continued to increase. The fall chinook smolt migration in the Snake River should reach peak numbers in the next week or two.

At Snake River SMP sites the daily passage indices for yearling Chinook and steelhead continued to decline. Yearling Chinook indices dropped to about 2,000 per day this week over all three dams, compared to 10,000 to 20,000 per day for subyearling Chinook. Steelhead showed a similar drop to yearling Chinook with the average daily indices falling below 4,000 per day at all three Snake River collector projects. Sockeye and coho indices have dropped to less than 100 fish per day at all three Snake River dams.

Spring migrants continue to predominate in the Columbia River. At Rock Island Dam indices for yearling Chinook averaged under 200 per day over the past week a little lower than the previous week. Steelhead indices averaged just over 100 per day, about half of the average for the previous week. Coho indices averaged about 500 fish per day this week down from 1,000 per day last week. Sockeye indices were also down; with daily indices below 100 fish per day this week compared to indices that approached 900 fish per day at the start of last week.

In the lower River indices for all spring migrants

were down, while subyearling Chinook indices were beginning to increase rapidly. At McNary the subyearling Chinook index rose to 12,000 on June 12, not as high a number as two weeks back but likely the beginning of the peak passage at that site.

At Bonneville Dam the traveling screens have been pulled at Powerhouse 2 due to high debris loads and concomitantly high descaling in smolts so that indices are lower due to decreased turbine guidance. None the less sample numbers have remained surprisingly high with the screens removed.

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. Approximately 700,000 subyearling fall Chinook were scheduled for release into this zone this week. Of these, approximately 71.4% were scheduled for release into the Middle Fork of the Clearwater River from the Nez Perce Tribal Hatchery. The remaining 28.6% were scheduled for released from acclimation facilities on the Selway River and South Fork of the Clearwater River. In all, about 50% of these subyearlings are unmarked. All three of these releases are expected to run trough the weekend, ending on or around Sunday, June 15th.

Two releases of spring Chinook parr are scheduled for this zone, beginning next week. The first is a release of approximately 40,000 parr into Meadow Creek, a tributary of the Selway River. The second is a release of about 56,000 parr from the Lostine Acclimation Facility on the Wallowa River. Although they are being released this year, these parr are not expected to out-migrate until spring of 2009. There are no other scheduled releases of salmonid juveniles to this zone scheduled for 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. A release of approximately 3.45 million subyearling fall Chinook from Ringold Hatchery to the Mid-Columbia River began this week. In addition, a release of about 4.5 million subyearling fall Chinook from Priest Rapids Hatchery to the Mid-Columbia River began this week. These releases are volitional and are expected to run for the next couple of weeks. Approximately 81.5% of these subyearling fall Chinook are unmarked. Wells Hatchery was scheduled to begin their release of subyearling summer Chinook to the Mid-Columbia River this week. In all, approximately 242,400

subyearling summer Chinook juveniles were planned for this release, 100% of which were marked. This release is expected to run through June 20th.

Lower Columbia Zone: The Lower Columbia Zone is defined as the Columbia River and its tributaries from Bonneville Dam to McNary Dam. Approximately 4.05 million subyearling fall Chinook were scheduled for release into this zone this week. These subyearlings were scheduled to be released from Klickitat Hatchery into the Klickitat River. About 84% of these Klickitat Hatchery subyearlings are unmarked. Finally, Little White Salmon NFH is scheduled to release approximately 2.0 million subyearling fall Chinook into the Little White Salmon River, beginning June 19th. There are no other scheduled releases of juvenile salmonids to this zone over the next two weeks.

Adult Fish Passage: The summer Chinook count began June 1st at Bonneville Dam. Daily passage numbers at Bonneville Dam have ranged between 1,671 and 2,334 adult summer Chinook in the last week. The 2008 summer Chinook count of 19,911 is about 1.93 times greater than the 2007 and 1.23 times greater than the 10 year average. The summer Chinook jack count of 3,518 is about 1.42 times greater than the 2007 count and 2.13 times greater than the 10 year average to date.

As of June 11th at Willamette Falls Dam, the adult spring Chinook count of 7,201 was only 39.3% of the 2007 count of 18,297. Spring Chinook are counted at Ice Harbor Dam through June 11th. A total of 53,142 spring Chinook adults have been observed at Ice Harbor Dam as of June 11th. The 2008 Ice Harbor count about increased 1.89 times when compared to the 2007 count. Additionally, it is about 96.7% of the 10 year average count. The 2008 spring Chinook jack count of 7,757 had 449 more fish than the 2007 count and increased 2 times when compared to the 10 year average. A total of 11,598 spring Chinook adults have been counted at Priest Rapids Dam as of June 11th. The 2008 Priest Rapids Dam adult spring Chinook count increased about 1.76 times compared to the 2007 count. However, it was only about 68% of the 10 year average count.

The 2008 Bonneville adult steelhead count was 5,767 fish, as of June 12th, which was 1.20 times greater than the 2007 count of 4,775 fish. The 2008 wild steelhead count at Bonneville Dam was 1,296 fish. At Willamette Falls Dam, the 2008 count for steelhead was 13,598, as of June 11th. This year's steelhead count

has 959 more fish than the 2007 count of 12,639 at Willamette Falls Dam. The 2008 adult sockeye count at Bonneville Dam was 7,747 so far this season. The 2008 sockeye count increased about 4.53 times compared to the 2007 count and increased approximately 2.53 times compared to the 10 year average. As of June 12th at Bonneville Dam, the adult Shad count was 282,774 which was only 18.3% of the 2007 count of 1,540,561 and only 16.6% the 10 year average count of 1,699,134.

The total steelhead count passing at Lower Granite Dam as of June 12th was 7,797. The 2008 count was about 73.5% of the 2007 count of 10,602. The 2008 Lower Granite adult steelhead count increased about 1.04 times when compared to the 10-year average count of 7,447. The 2008 wild steelhead count at Lower Granite Dam as of June 12th was 2,475. At Rock Island Dam, as of June 11th, 320 adult steelhead had been counted. At Rocky Reach Dam 572 adult steelhead had been counted so far this season. The 2008 Rocky Reach Dam adult steelhead count increased 3.23 times when compared to the 2007 count and increased 4.23 times when compared to the 10 year average.

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 |
| 05/30/2008 | 191.0 | 3.4 | 194.8 | 18.6 | 224.9 | 59.0 | 223.2 | 38.1 | 228.6 | 23.7 | 250.6 | 120.9 | 238.9 | 81.9 |
| 05/31/2008 | 178.8 | 0.3 | 179.6 | 0.0 | 209.2 | 52.9 | 207.2 | 24.1 | 216.8 | 22.3 | 235.5 | 99.7 | 227.2 | 65.6 |
| 06/01/2008 | 160.5 | 12.1 | 162.8 | 16.0 | 191.6 | 46.0 | 194.4 | 16.7 | 206.3 | 21.7 | 223.0 | 87.1 | 215.4 | 61.0 |
| 06/02/2008 | 193.1 | 10.1 | 188.2 | 35.0 | 213.4 | 54.2 | 204.0 | 24.5 | 205.7 | 26.5 | 220.7 | 83.7 | 209.0 | 51.2 |
| 06/03/2008 | 215.0 | 14.4 | 214.9 | 33.0 | 242.0 | 90.6 | 240.3 | 50.9 | 239.7 | 32.9 | 266.8 | 131.1 | 258.9 | 96.9 |
| 06/04/2008 | 207.3 | 27.4 | 208.8 | 29.9 | 241.4 | 89.6 | 240.3 | 52.7 | 240.8 | 35.2 | 268.7 | 137.3 | 258.4 | 102.4 |
| 06/05/2008 | 188.4 | 8.7 | 191.5 | 24.3 | 214.7 | 40.4 | 210.5 | 31.6 | 214.7 | 24.4 | 230.0 | 97.1 | 223.8 | 68.5 |
| 06/06/2008 | 182.8 | 8.9 | 183.4 | 19.5 | 210.9 | 42.2 | 207.2 | 27.4 | 211.9 | 22.7 | 227.5 | 98.1 | 220.3 | 59.2 |
| 06/07/2008 | 181.9 | 5.0 | 182.9 | 17.9 | 205.1 | 39.9 | 206.4 | 31.2 | 209.5 | 21.6 | 226.2 | 94.8 | 216.1 | 60.2 |
| 06/08/2008 | 180.4 | 0.1 | 171.3 | 0.0 | 183.0 | 15.7 | 180.7 | 18.2 | 189.6 | 34.3 | 208.3 | 70.1 | 205.8 | 43.8 |
| 06/09/2008 | 206.3 | 2.6 | 201.7 | 13.7 | 224.4 | 60.6 | 221.4 | 43.3 | 218.7 | 38.1 | 228.3 | 93.1 | 218.2 | 62.9 |
| 06/10/2008 | 205.6 | 8.6 | 217.4 | 37.7 | 238.3 | 81.9 | 242.1 | 49.9 | 241.2 | 44.8 | 269.8 | 145.4 | 255.4 | 91.8 |
| 06/11/2008 | 209.4 | 29.8 | 221.8 | 36.7 | 241.8 | 85.6 | 250.2 | 59.2 | 234.0 | 39.4 | 261.8 | 140.3 | 250.0 | 88.5 |
| 06/12/2008 | 205.9 | 28.9 | 198.0 | 15.3 | 219.7 | 66.9 | 220.7 | 35.7 | 219.6 | 45.3 | 245.0 | 113.0 | 230.9 | 67.8 |

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 |
| 05/30/2008 | 1.3 | 0.3 | 28.3 | 28.4 | 151.7 | 80.3 | 146.3 | 65.4 | 150.2 | 47.1 | 156.6 | 94.6 | 156.6 | 94.6 |
| 05/31/2008 | 1.4 | 0.1 | 28.2 | 27.3 | 152.9 | 82.3 | 149.0 | 58.0 | 154.2 | 39.1 | 159.9 | 91.5 | 159.9 | 91.5 |
| 06/01/2008 | 1.1 | 1.0 | 28.1 | 26.0 | 154.3 | 83.4 | 150.0 | 59.2 | 152.9 | 57.1 | 160.5 | 98.8 | 160.5 | 98.8 |
| 06/02/2008 | 8.0 | 0.2 | 27.8 | 24.4 | 158.9 | 87.6 | 155.0 | 65.4 | 160.8 | 47.4 | 165.6 | 97.3 | 165.6 | 97.3 |
| 06/03/2008 | 8.7 | 0.9 | 27.2 | 25.3 | 160.7 | 89.0 | 155.0 | 66.6 | 158.9 | 58.2 | 162.8 | 99.3 | 162.8 | 99.3 |
| 06/04/2008 | 8.8 | 1.3 | 28.0 | 25.2 | 152.2 | 81.9 | 148.9 | 66.6 | 156.1 | 62.8 | 162.1 | 99.6 | 162.1 | 99.6 |
| 06/05/2008 | 8.7 | 0.6 | 28.1 | 27.8 | 149.4 | 78.9 | 143.0 | 52.0 | 147.2 | 32.2 | 153.6 | 88.6 | 153.6 | 88.6 |
| 06/06/2008 | 7.0 | 0.5 | 26.6 | 28.6 | 140.1 | 69.5 | 133.6 | 42.4 | 136.4 | 28.0 | 143.9 | 82.3 | 143.9 | 82.3 |
| 06/07/2008 | 7.1 | 0.2 | 27.0 | 27.7 | 138.7 | 68.1 | 132.1 | 40.8 | 136.4 | 34.8 | 141.9 | 76.6 | 141.9 | 76.6 |
| 06/08/2008 | 7.1 | 0.0 | 25.5 | 27.5 | 125.1 | 55.4 | 119.9 | 36.0 | 123.7 | 34.2 | 130.2 | 63.1 | 130.2 | 63.1 |
| 06/09/2008 | 9.1 | 0.8 | 23.7 | 27.4 | 121.6 | 52.2 | 117.4 | 35.1 | 117.5 | 30.8 | 124.6 | 66.1 | 124.6 | 66.1 |
| 06/10/2008 | 14.2 | 4.5 | 24.2 | 25.8 | 120.8 | 51.1 | 116.2 | 40.3 | 119.0 | 40.2 | 123.1 | 77.2 | 123.1 | 77.2 |
| 06/11/2008 | 15.0 | 5.3 | 22.8 | 23.6 | 122.4 | 60.0 | 116.4 | 49.6 | 119.2 | 51.7 | 124.6 | 92.2 | 124.6 | 92.2 |
| 06/12/2008 | 15.1 | 5.4 | --- | --- | 124.2 | 55.9 | 119.4 | 48.0 | 120.8 | 46.8 | 125.4 | 77.5 | 125.4 | 77.5 |

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 |
| 05/30/2008 | 398.2 | 224.4 | 413.9 | 129.9 | 396.7 | 169.4 | 410.8 | 202.9 | 67.5 | 129.0 |
| 05/31/2008 | 395.9 | 224.1 | 412.9 | 124.3 | 402.1 | 159.3 | 413.8 | 197.9 | 75.7 | 129.6 |
| 06/01/2008 | 392.1 | 220.2 | 394.2 | 126.6 | 389.3 | 158.3 | 417.5 | 200.0 | 77.0 | 129.1 |
| 06/02/2008 | 391.3 | 219.0 | 400.0 | 135.0 | 397.7 | 158.3 | 417.7 | 207.5 | 76.0 | 122.9 |
| 06/03/2008 | 400.1 | 230.7 | 417.8 | 150.9 | 398.9 | 176.4 | 417.5 | 202.7 | 74.7 | 128.7 |
| 06/04/2008 | 424.0 | 250.3 | 417.1 | 178.6 | 399.9 | 169.9 | 416.8 | 199.6 | 75.2 | 130.6 |
| 06/05/2008 | 403.9 | 228.6 | 410.8 | 135.0 | 404.4 | 154.5 | 417.7 | 201.2 | 76.4 | 128.7 |
| 06/06/2008 | 388.3 | 213.7 | 395.9 | 135.0 | 389.8 | 153.2 | 414.5 | 198.2 | 77.5 | 127.4 |
| 06/07/2008 | 365.7 | 191.0 | 370.8 | 117.1 | 359.4 | 145.8 | 389.0 | 173.5 | 78.5 | 125.6 |
| 06/08/2008 | 359.8 | 184.8 | 381.5 | 114.4 | 364.7 | 144.3 | 376.7 | 161.6 | 77.0 | 126.7 |
| 06/09/2008 | 329.6 | 154.2 | 320.2 | 97.9 | 313.0 | 126.4 | 346.9 | 129.2 | 75.3 | 131.1 |
| 06/10/2008 | 362.7 | 200.7 | 346.0 | 126.8 | 335.1 | 150.4 | 342.4 | 125.5 | 75.0 | 130.5 |
| 06/11/2008 | 384.1 | 223.9 | 385.2 | 165.1 | 370.3 | 168.0 | 393.9 | 173.4 | 76.7 | 132.4 |
| 06/12/2008 | 383.8 | 224.6 | 401.7 | 164.7 | 393.0 | 165.0 | 403.0 | 204.0 | 74.4 | 113.2 |

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 | | | | | | | | | | | |
| | 06/03/08 | Chinook + Steelhead | 84 | 1 | 0 | 0.00% | 0.00% | 0 | 0 | 0 | 0 |
| | 06/10/08 | Chinook + Steelhead | 36 | 0 | 0 | 0.00% | 0.00% | 0 | 0 | 0 | 0 |
| Little Goose Dam | | | | | | | | | | | |
| | 06/03/08 | Chinook + Steelhead | 100 | 1 | 1 | 1.00% | 0.00% | 1 | 0 | 0 | 0 |
| | 06/10/08 | Chinook + Steelhead | 100 | 3 | 3 | 3.00% | 0.00% | 3 | 0 | 0 | 0 |
| Lower Monumental Dam | | | | | | | | | | | |
| | 06/09/08 | Chinook + Steelhead | 100 | 12 | 12 | 12.00% | 0.00% | 11 | 1 | 0 | 0 |
| McNary Dam | | | | | | | | | | | |
| | 06/05/08 | Chinook + Steelhead | 99 | 0 | 0 | 0.00% | 0.00% | 0 | 0 | 0 | 0 |
| | 06/06/08 | Chinook + Steelhead | 1 | 0 | 0 | 0.00% | 0.00% | 0 | 0 | 0 | 0 |
| Bonneville Dam | | | | | | | | | | | |
| | 06/03/08 | Chinook + Steelhead | 73 | 1 | 1 | 1.36% | 0.00% | 1 | 0 | 0 | 0 |
| | 06/07/08 | Chinook + Steelhead | 83 | 1 | 1 | 1.20% | 0.00% | 1 | 0 | 0 | 0 |
| Rock Island Dam | | | | | | | | | | | |
| | 06/05/08 | Chinook + Steelhead | 100 | 1 | 1 | 1.00% | 0.00% | 1 | 0 | 0 | 0 |
| | 06/09/08 | Chinook + Steelhead | 99 | 2 | 2 | 2.02% | 0.00% | 2 | 0 | 0 | 0 |
| | 06/12/08 | Chinook + Steelhead | 100 | 1 | 0 | 0.00% | 0.00% | 0 | 0 | 0 | 0 |

Hatchery Releases Last Two Weeks

| Hatchery Release Summary | | | | | | | | | |
|--|---------------------------|---------|------|-------|-------------------|----------|----------|---|-----------------------|
| From: | 5/30/2008 | | to | | 06/12/08 | | | | |
| Agency | Hatchery | Species | Race | MigYr | NumRel | RelStart | RelEnd | RelSite | RelRiver |
| Nez Perce Tribe | Nez Perce Tribal Hatchery | CH0 | FA | 2008 | 100,000 | 06-11-08 | 06-15-08 | Cedar Flats Acclim. | Selway River |
| Nez Perce Tribe | Nez Perce Tribal Hatchery | CH0 | FA | 2008 | 100,000 | 06-11-08 | 06-15-08 | Lukes Gulch Acclim. Nez Perce Tribal | S Fk Clearwater River |
| Nez Perce Tribe | Nez Perce Tribal Hatchery | CH0 | FA | 2008 | 500,000 | 06-10-08 | 06-15-08 | Hatchery | Clearwater River M F |
| Nez Perce Tribe Total | | | | | 700,000 | | | | |
| Washington Dept. of Fish and Wildlife | Lyons Ferry Hatchery | CH0 | FA | 2008 | 200,733 | 06-02-08 | 06-02-08 | Lyons Ferry Hatchery | Snake River |
| Washington Dept. of Fish and Wildlife | Priest Rapids Hatchery | CH0 | FA | 2008 | 4,500,000 | 06-11-08 | 06-18-08 | Priest Rapids Hatchery Ringold Springs | Mid-Columbia River |
| Washington Dept. of Fish and Wildlife | Ringold Springs Hatchery | CH0 | FA | 2008 | 3,450,000 | 06-09-08 | 06-27-08 | Hatchery | Mid-Columbia River |
| Washington Dept. of Fish and Wildlife Total | | | | | 8,150,733 | | | | |
| Yakama Tribe | Klickitat Hatchery | CH0 | FA | 2008 | 4,000,000 | 06-11-08 | 06-12-08 | Klickitat River | Klickitat River |
| Yakama Tribe Total | | | | | 4,000,000 | | | | |
| Grand Total | | | | | 12,850,733 | | | | |

Hatchery Releases Next Two Weeks

| Hatchery Release Summary | | | | | | | | | |
|--|---------------------------|---------|------|-------|-------------------|----------|----------|---|------------------------------|
| From: | 6/13/2008 | | to | | 6/26/2008 | | | | |
| Agency | Hatchery | Species | Race | MigYr | NumRel | RelStart | RelEnd | RelSite | RelRiver |
| Nez Perce Tribe | Lookingglass Hatchery | CH0 | SP | 2009 | 56,207 | 06-15-08 | 07-15-08 | Lostine River | Wallowa River |
| Nez Perce Tribe | Nez Perce Tribal Hatchery | CH0 | FA | 2008 | 100,000 | 06-11-08 | 06-15-08 | Cedar Flats Acclim. | Selway River |
| Nez Perce Tribe | Nez Perce Tribal Hatchery | CH0 | FA | 2008 | 100,000 | 06-11-08 | 06-15-08 | Lukes Gulch Acclim. Nez Perce Tribal | S Fk Clearwater River |
| Nez Perce Tribe | Nez Perce Tribal Hatchery | CH0 | FA | 2008 | 500,000 | 06-10-08 | 06-15-08 | Hatchery | Clearwater River M F |
| Nez Perce Tribe | Nez Perce Tribal Hatchery | CH0 | SP | 2009 | 40,000 | 06-15-08 | 06-15-08 | Meadow Creek - SELW | Selway River |
| Nez Perce Tribe Total | | | | | 796,207 | | | | |
| U.S. Fish and Wildlife Service | Little White Salmon NFH | CH0 | FA | 2008 | 2,000,000 | 06-19-08 | 06-19-08 | Little White Salmon River | Little White Salmon River |
| U.S. Fish and Wildlife Service Total | | | | | 2,000,000 | | | | |
| Washington Dept. of Fish and Wildlife | Priest Rapids Hatchery | CH0 | FA | 2008 | 4,500,000 | 06-11-08 | 06-18-08 | Priest Rapids Hatchery Ringold Springs | Mid-Columbia River |
| Washington Dept. of Fish and Wildlife | Ringold Springs Hatchery | CH0 | FA | 2008 | 3,450,000 | 06-09-08 | 06-27-08 | Hatchery | Mid-Columbia River |
| Washington Dept. of Fish and Wildlife | Wells Hatchery | CH0 | SU | 2008 | 242,400 | 06-13-08 | 06-20-08 | Wells Hatchery | Mid-Columbia River |
| Washington Dept. of Fish and Wildlife Total | | | | | 8,192,400 | | | | |
| Yakama Tribe | Klickitat Hatchery | CH0 | FA | 2008 | 50,000 | 06-13-08 | 06-13-08 | Klickitat River | Klickitat River |
| Yakama Tribe Total | | | | | 50,000 | | | | |
| Grand Total | | | | | 11,038,607 | | | | |

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

| | <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>24 h</u> | | <u>12 h</u> | | # | <u>24 h</u> | | <u>12 h</u> | | # | <u>24 h</u> | | <u>12 h</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> | |
| 5/30 | 101 | 102 | 102 | 24 | 128 | 129 | 130 | 24 | 115 | 116 | 117 | 24 | 114 | 116 | 121 | 24 | 111 | 112 | 112 | 24 |
| 5/31 | 101 | 101 | 102 | 24 | 128 | 129 | 130 | 22 | 116 | 116 | 116 | 24 | 112 | 113 | 113 | 22 | 115 | 119 | 120 | 24 |
| 6/1 | 101 | 101 | 102 | 24 | 128 | 129 | 130 | 23 | 116 | 117 | 117 | 24 | 115 | 118 | 124 | 23 | 113 | 114 | 117 | 24 |
| 6/2 | 103 | 104 | 104 | 24 | 128 | 129 | 129 | 23 | 116 | 117 | 117 | 24 | 118 | 121 | 124 | 23 | 115 | 118 | 124 | 24 |
| 6/3 | 104 | 105 | 106 | 24 | 129 | 130 | 130 | 23 | 118 | 118 | 119 | 24 | 117 | 119 | 124 | 23 | 119 | 120 | 123 | 24 |
| 6/4 | 104 | 105 | 105 | 24 | 129 | 130 | 132 | 21 | 119 | 119 | 119 | 24 | 121 | 124 | 134 | 21 | 117 | 119 | 119 | 24 |
| 6/5 | 104 | 104 | 105 | 24 | 129 | 129 | 130 | 21 | 119 | 119 | 119 | 24 | 116 | 117 | 118 | 21 | 121 | 126 | 129 | 24 |
| 6/6 | 103 | 103 | 104 | 24 | 129 | 130 | 131 | 23 | 119 | 119 | 120 | 24 | 116 | 117 | 119 | 23 | 116 | 116 | 118 | 23 |
| 6/7 | 104 | 104 | 105 | 24 | 129 | 129 | 130 | 21 | 118 | 119 | 119 | 24 | 115 | 116 | 117 | 21 | 115 | 116 | 116 | 24 |
| 6/8 | 103 | 103 | 104 | 24 | 129 | 129 | 130 | 23 | 119 | 119 | 119 | 24 | 115 | 116 | 117 | 23 | 115 | 116 | 116 | 24 |
| 6/9 | 104 | 105 | 105 | 24 | 129 | 129 | 130 | 23 | 120 | 121 | 122 | 24 | 117 | 118 | 119 | 23 | 116 | 116 | 117 | 24 |
| 6/10 | 105 | 105 | 106 | 24 | 128 | 129 | 130 | 23 | 120 | 121 | 121 | 24 | 117 | 118 | 119 | 23 | 115 | 116 | 116 | 24 |
| 6/11 | 104 | 104 | 104 | 9 | 128 | 128 | 129 | 23 | 119 | 120 | 120 | 24 | 117 | 118 | 119 | 23 | 116 | 116 | 117 | 24 |
| 6/12 | 102 | 102 | 103 | 11 | 128 | 128 | 129 | 23 | 119 | 119 | 119 | 24 | 118 | 119 | 121 | 23 | 116 | 117 | 117 | 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>24 h</u> | | <u>12 h</u> | | # | <u>24 h</u> | | <u>12 h</u> | | # | <u>24 h</u> | | <u>12 h</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> | |
| 5/30 | 112 | 113 | 114 | 24 | 110 | 112 | 114 | 24 | 118 | 120 | 123 | 24 | 118 | 119 | 120 | 24 | 119 | 120 | 121 | 24 |
| 5/31 | 115 | 118 | 119 | 24 | 111 | 112 | 113 | 24 | 118 | 120 | 127 | 24 | 116 | 118 | 119 | 24 | 117 | 118 | 120 | 24 |
| 6/1 | 113 | 115 | 116 | 24 | 115 | 116 | 117 | 24 | 119 | 121 | 125 | 24 | 117 | 117 | 118 | 24 | 117 | 118 | 119 | 24 |
| 6/2 | 116 | 117 | 119 | 24 | 111 | 112 | 113 | 24 | 119 | 124 | 133 | 24 | 117 | 118 | 118 | 24 | 118 | 119 | 119 | 24 |
| 6/3 | 116 | 117 | 117 | 24 | 115 | 117 | 119 | 23 | 127 | 130 | 135 | 23 | 118 | 121 | 125 | 24 | 120 | 122 | 126 | 24 |
| 6/4 | 116 | 116 | 117 | 24 | 116 | 116 | 117 | 24 | 128 | 132 | 136 | 24 | 125 | 126 | 130 | 24 | 125 | 126 | 130 | 24 |
| 6/5 | 116 | 118 | 120 | 24 | 114 | 115 | 117 | 24 | 118 | 119 | 120 | 24 | 126 | 128 | 130 | 24 | 125 | 127 | 130 | 24 |
| 6/6 | 114 | 114 | 116 | 24 | 117 | 119 | 121 | 24 | 120 | 122 | 123 | 24 | 116 | 117 | 118 | 24 | 117 | 117 | 120 | 24 |
| 6/7 | 115 | 116 | 116 | 24 | 113 | 113 | 114 | 24 | 118 | 120 | 123 | 24 | 116 | 117 | 117 | 24 | 117 | 118 | 119 | 24 |
| 6/8 | 114 | 115 | 116 | 24 | 112 | 113 | 113 | 24 | 115 | 115 | 117 | 24 | 115 | 117 | 118 | 24 | 115 | 117 | 119 | 24 |
| 6/9 | 115 | 115 | 116 | 24 | 114 | 115 | 115 | 24 | 121 | 123 | 125 | 24 | 115 | 116 | 118 | 24 | 116 | 117 | 118 | 24 |
| 6/10 | 116 | 117 | 119 | 24 | 113 | 114 | 114 | 24 | 125 | 126 | 127 | 24 | 117 | 118 | 120 | 24 | 119 | 120 | 121 | 24 |
| 6/11 | 118 | 119 | 119 | 24 | 114 | 114 | 115 | 24 | 126 | 128 | 131 | 24 | 121 | 122 | 122 | 24 | 122 | 123 | 123 | 24 |
| 6/12 | 116 | 116 | 116 | 24 | 114 | 115 | 115 | 24 | 123 | 124 | 125 | 24 | 123 | 123 | 125 | 24 | 123 | 124 | 125 | 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>24 h</u> | | <u>12 h</u> | | # | <u>24 h</u> | | <u>12 h</u> | | # | <u>24 h</u> | | <u>12 h</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> | |
| 5/30 | 118 | 118 | 119 | 24 | 119 | 120 | 121 | 24 | 115 | 116 | 117 | 24 | 124 | 125 | 128 | 24 | 120 | 122 | 124 | 24 |
| 5/31 | 116 | 117 | 117 | 24 | 118 | 118 | 119 | 24 | 115 | 117 | 119 | 24 | 121 | 123 | 127 | 24 | 122 | 125 | 126 | 24 |
| 6/1 | 116 | 117 | 118 | 24 | 118 | 119 | 120 | 24 | 115 | 115 | 115 | 24 | 118 | 120 | 123 | 24 | 118 | 120 | 121 | 24 |
| 6/2 | 116 | 117 | 118 | 24 | 119 | 120 | 121 | 24 | 114 | 115 | 116 | 24 | 119 | 123 | 127 | 24 | 116 | 117 | 118 | 24 |
| 6/3 | 118 | 118 | 120 | 24 | 120 | 121 | 123 | 24 | 114 | 115 | 115 | 24 | 125 | 127 | 128 | 24 | 124 | 126 | 127 | 24 |
| 6/4 | 122 | 122 | 123 | 24 | 124 | 125 | 125 | 24 | 114 | 114 | 115 | 24 | 125 | 127 | 128 | 24 | 122 | 123 | 125 | 24 |
| 6/5 | 125 | 127 | 127 | 24 | 125 | 125 | 125 | 24 | 115 | 116 | 116 | 24 | 122 | 125 | 127 | 24 | 122 | 125 | 126 | 24 |
| 6/6 | 117 | 119 | 121 | 24 | 118 | 120 | 122 | 24 | 118 | 118 | 119 | 24 | 122 | 124 | 126 | 24 | 121 | 123 | 124 | 24 |
| 6/7 | 116 | 116 | 117 | 24 | 118 | 118 | 119 | 24 | 115 | 116 | 118 | 24 | 121 | 125 | 126 | 24 | 118 | 120 | 121 | 24 |
| 6/8 | 115 | 116 | 117 | 24 | 118 | 119 | 120 | 24 | 112 | 113 | 114 | 24 | 116 | 117 | 125 | 24 | 118 | 121 | 123 | 24 |
| 6/9 | 117 | 117 | 118 | 24 | 119 | 120 | 120 | 24 | 115 | 116 | 116 | 24 | 119 | 121 | 127 | 24 | 115 | 116 | 119 | 24 |
| 6/10 | 117 | 118 | 119 | 24 | 121 | 122 | 122 | 24 | 114 | 114 | 114 | 16 | 127 | 127 | 128 | 16 | 121 | 123 | 126 | 16 |
| 6/11 | 120 | 121 | 122 | 24 | 124 | 125 | 126 | 24 | 113 | 114 | 114 | 20 | 126 | 127 | 128 | 19 | 121 | 122 | 124 | 19 |
| 6/12 | 121 | 123 | 124 | 24 | 124 | 125 | 126 | 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 | |
| 5/30 | 121 | 123 | 124 | 24 | 113 | 114 | 115 | 24 | 110 | 112 | 113 | 24 | 103 | 104 | 104 | 24 | 105 | 106 | 106 | 24 |
| 5/31 | 123 | 124 | 124 | 24 | 115 | 116 | 117 | 24 | 106 | 107 | 108 | 24 | 104 | 105 | 106 | 24 | 105 | 106 | 107 | 24 |
| 6/1 | 120 | 121 | 122 | 24 | 115 | 116 | 116 | 24 | 110 | 113 | 115 | 24 | 130 | 135 | 136 | 24 | 105 | 105 | 106 | 24 |
| 6/2 | 118 | 119 | 120 | 24 | 112 | 113 | 114 | 24 | 101 | 104 | 113 | 24 | 139 | 140 | 140 | 24 | 105 | 106 | 106 | 24 |
| 6/3 | 124 | 125 | 125 | 24 | 112 | 114 | 115 | 24 | 103 | 108 | 115 | 24 | 121 | 138 | 139 | 24 | 105 | 105 | 106 | 24 |
| 6/4 | 123 | 123 | 124 | 24 | 116 | 116 | 117 | 24 | 104 | 109 | 114 | 24 | 103 | 103 | 104 | 24 | 105 | 105 | 105 | 24 |
| 6/5 | 123 | 123 | 123 | 24 | 115 | 116 | 116 | 24 | 102 | 104 | 110 | 24 | 103 | 103 | 104 | 24 | 105 | 106 | 106 | 24 |
| 6/6 | 121 | 122 | 122 | 24 | 112 | 113 | 114 | 24 | 102 | 104 | 109 | 24 | 102 | 103 | 103 | 24 | 104 | 105 | 105 | 24 |
| 6/7 | 119 | 120 | 121 | 24 | 112 | 113 | 113 | 24 | 100 | 102 | 108 | 24 | 102 | 102 | 103 | 24 | 104 | 104 | 105 | 24 |
| 6/8 | 119 | 120 | 121 | 24 | 113 | 115 | 115 | 24 | 99 | 99 | 100 | 24 | 102 | 103 | 104 | 24 | 104 | 105 | 106 | 24 |
| 6/9 | 118 | 119 | 120 | 24 | 113 | 115 | 115 | 24 | 101 | 103 | 105 | 24 | 102 | 103 | 104 | 24 | 104 | 105 | 105 | 24 |
| 6/10 | 121 | 121 | 123 | 16 | 109 | 111 | 113 | 24 | 107 | 108 | 110 | 24 | 102 | 103 | 103 | 24 | 103 | 103 | 104 | 24 |
| 6/11 | 122 | 123 | 124 | 17 | 114 | 115 | 115 | 24 | 109 | 109 | 109 | 24 | 103 | 103 | 103 | 24 | 103 | 104 | 104 | 24 |
| 6/12 | --- | --- | --- | 0 | 115 | 116 | 117 | 24 | 109 | 109 | 110 | 24 | 103 | 104 | 104 | 24 | 104 | 105 | 106 | 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 | |
| 5/30 | 103 | 103 | 103 | 24 | 104 | 104 | 104 | 24 | 128 | 128 | 128 | 24 | 117 | 118 | 118 | 24 | 123 | 124 | 125 | 24 |
| 5/31 | 103 | 104 | 105 | 24 | 105 | 106 | 106 | 24 | 128 | 128 | 130 | 24 | 120 | 121 | 121 | 24 | 122 | 122 | 124 | 24 |
| 6/1 | 103 | 103 | 103 | 24 | 106 | 106 | 106 | 24 | 127 | 127 | 128 | 24 | 121 | 121 | 122 | 24 | 122 | 122 | 122 | 24 |
| 6/2 | 103 | 103 | 103 | 24 | 105 | 106 | 106 | 24 | 127 | 128 | 131 | 24 | 120 | 121 | 121 | 24 | 123 | 123 | 124 | 24 |
| 6/3 | 102 | 103 | 104 | 24 | 106 | 106 | 106 | 24 | 127 | 127 | 128 | 24 | 120 | 121 | 122 | 24 | 123 | 124 | 125 | 24 |
| 6/4 | 102 | 102 | 103 | 24 | 105 | 105 | 106 | 24 | 124 | 126 | 127 | 24 | 120 | 121 | 122 | 24 | 123 | 125 | 125 | 24 |
| 6/5 | 102 | 103 | 104 | 24 | 105 | 105 | 105 | 24 | 124 | 125 | 127 | 24 | 119 | 120 | 120 | 24 | 121 | 123 | 143 | 24 |
| 6/6 | 102 | 102 | 102 | 24 | 104 | 105 | 105 | 24 | 123 | 124 | 124 | 24 | 119 | 119 | 120 | 24 | 118 | 119 | 119 | 24 |
| 6/7 | 101 | 102 | 102 | 24 | 104 | 104 | 105 | 24 | 123 | 123 | 124 | 24 | 115 | 116 | 117 | 24 | 117 | 118 | 119 | 24 |
| 6/8 | 102 | 103 | 104 | 24 | 103 | 104 | 104 | 24 | 121 | 121 | 122 | 24 | 114 | 115 | 116 | 24 | 116 | 116 | 117 | 24 |
| 6/9 | 102 | 102 | 103 | 24 | 104 | 105 | 105 | 24 | 120 | 121 | 122 | 24 | 116 | 116 | 117 | 24 | 116 | 117 | 117 | 24 |
| 6/10 | 101 | 102 | 102 | 24 | 104 | 105 | 105 | 24 | 119 | 119 | 123 | 24 | 114 | 114 | 115 | 24 | 117 | 118 | 124 | 24 |
| 6/11 | 102 | 102 | 102 | 24 | 103 | 103 | 104 | 24 | 121 | 123 | 125 | 24 | 111 | 112 | 112 | 24 | 118 | 121 | 125 | 24 |
| 6/12 | 103 | 104 | 104 | 24 | 103 | 103 | 104 | 24 | 120 | 122 | 125 | 24 | 111 | 112 | 113 | 24 | 118 | 121 | 124 | 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 | |
| 5/30 | 120 | 120 | 121 | 24 | 120 | 122 | 124 | 24 | 117 | 118 | 118 | 24 | 122 | 123 | 124 | 24 | --- | --- | --- | 0 |
| 5/31 | 124 | 125 | 127 | 24 | 119 | 119 | 122 | 24 | 119 | 119 | 119 | 24 | 122 | 122 | 122 | 24 | --- | --- | --- | 0 |
| 6/1 | 123 | 123 | 124 | 24 | 121 | 124 | 126 | 24 | 120 | 120 | 120 | 24 | 123 | 123 | 124 | 24 | --- | --- | --- | 0 |
| 6/2 | 122 | 122 | 123 | 24 | 121 | 121 | 124 | 24 | 119 | 119 | 120 | 24 | 122 | 123 | 124 | 24 | --- | --- | --- | 0 |
| 6/3 | 124 | 125 | 126 | 24 | 121 | 123 | 125 | 24 | 119 | 120 | 121 | 24 | 123 | 124 | 125 | 24 | --- | --- | --- | 0 |
| 6/4 | 123 | 124 | 126 | 24 | 122 | 125 | 125 | 24 | 120 | 120 | 121 | 24 | 123 | 124 | 124 | 24 | --- | --- | --- | 0 |
| 6/5 | 123 | 124 | 125 | 24 | 120 | 121 | 122 | 24 | 120 | 120 | 121 | 24 | 121 | 122 | 122 | 24 | --- | --- | --- | 0 |
| 6/6 | 120 | 122 | 123 | 24 | 120 | 121 | 122 | 24 | 117 | 118 | 119 | 24 | 120 | 121 | 121 | 24 | --- | --- | --- | 0 |
| 6/7 | 116 | 116 | 117 | 24 | 118 | 118 | 118 | 24 | 114 | 115 | 115 | 24 | 119 | 120 | 121 | 24 | --- | --- | --- | 0 |
| 6/8 | 116 | 117 | 117 | 24 | 117 | 117 | 118 | 24 | 114 | 115 | 115 | 24 | 118 | 119 | 119 | 24 | --- | --- | --- | 0 |
| 6/9 | 117 | 117 | 117 | 24 | 118 | 119 | 120 | 24 | 116 | 117 | 117 | 24 | 118 | 119 | 119 | 24 | --- | --- | --- | 0 |
| 6/10 | 114 | 114 | 115 | 24 | 118 | 120 | 123 | 24 | 113 | 114 | 115 | 24 | 119 | 120 | 124 | 24 | --- | --- | --- | 0 |
| 6/11 | 113 | 114 | 114 | 24 | 120 | 122 | 123 | 24 | 112 | 113 | 113 | 24 | 122 | 124 | 124 | 24 | --- | --- | --- | 0 |
| 6/12 | 117 | 117 | 118 | 24 | 120 | 121 | 123 | 24 | 114 | 114 | 115 | 24 | 119 | 120 | 122 | 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 | | | | |
| 5/30 | 114 | 115 | 115 | 24 | 122 | 122 | 123 | 24 | 114 | 114 | 114 | 24 | 119 | 119 | 120 | 24 | 113 | 114 | 115 | 24 |
| 5/31 | 114 | 115 | 115 | 24 | 123 | 123 | 123 | 24 | 114 | 114 | 114 | 24 | 119 | 119 | 120 | 24 | 113 | 114 | 114 | 24 |
| 6/1 | 116 | 116 | 116 | 24 | 122 | 122 | 122 | 24 | 113 | 114 | 114 | 24 | 119 | 119 | 119 | 24 | 112 | 113 | 113 | 24 |
| 6/2 | 114 | 114 | 115 | 24 | 122 | 122 | 122 | 24 | 114 | 114 | 114 | 24 | 119 | 119 | 119 | 24 | 113 | 114 | 114 | 24 |
| 6/3 | 113 | 113 | 114 | 24 | 122 | 122 | 123 | 24 | 113 | 114 | 114 | 24 | 120 | 121 | 125 | 24 | 114 | 115 | 118 | 24 |
| 6/4 | 112 | 112 | 113 | 24 | 123 | 123 | 123 | 24 | 110 | 110 | 111 | 24 | 122 | 124 | 126 | 24 | 113 | 115 | 117 | 24 |
| 6/5 | 114 | 115 | 115 | 24 | 122 | 123 | 123 | 24 | 110 | 110 | 111 | 24 | 119 | 120 | 120 | 24 | 112 | 113 | 114 | 24 |
| 6/6 | 113 | 114 | 114 | 24 | 121 | 121 | 121 | 24 | 110 | 110 | 111 | 24 | 119 | 119 | 119 | 24 | 111 | 111 | 112 | 24 |
| 6/7 | 110 | 110 | 111 | 24 | 120 | 120 | 120 | 24 | 110 | 110 | 110 | 24 | 117 | 118 | 118 | 24 | 110 | 111 | 111 | 24 |
| 6/8 | 110 | 111 | 112 | 24 | 119 | 120 | 121 | 24 | 109 | 109 | 109 | 24 | 117 | 119 | 119 | 24 | 110 | 111 | 112 | 24 |
| 6/9 | 113 | 113 | 114 | 24 | 119 | 119 | 119 | 24 | 109 | 109 | 109 | 24 | 116 | 117 | 118 | 24 | 111 | 111 | 111 | 24 |
| 6/10 | 110 | 111 | 112 | 24 | --- | --- | --- | 0 | 107 | 108 | 108 | 24 | 117 | 119 | 122 | 24 | 108 | 109 | 110 | 24 |
| 6/11 | 108 | 109 | 110 | 24 | 121 | 121 | 121 | 24 | 106 | 106 | 106 | 24 | 121 | 122 | 125 | 24 | 110 | 112 | 116 | 24 |
| 6/12 | 112 | 113 | 114 | 24 | 122 | 123 | 124 | 24 | 105 | 105 | 106 | 24 | 121 | 122 | 125 | 24 | 112 | 114 | 117 | 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 | | | | |
| 5/30 | 119 | 119 | 121 | 24 | 114 | 115 | 118 | 24 | --- | --- | --- | 0 | 119 | 119 | 120 | 24 | 124 | 124 | 125 | 24 |
| 5/31 | 118 | 118 | 119 | 24 | 116 | 117 | 118 | 24 | --- | --- | --- | 0 | 120 | 121 | 122 | 24 | 124 | 124 | 125 | 24 |
| 6/1 | 117 | 118 | 118 | 24 | 114 | 114 | 115 | 24 | --- | --- | --- | 0 | 118 | 118 | 118 | 24 | 123 | 123 | 124 | 24 |
| 6/2 | 117 | 118 | 119 | 24 | 114 | 114 | 115 | 24 | --- | --- | --- | 0 | 119 | 120 | 121 | 24 | 124 | 125 | 128 | 24 |
| 6/3 | 120 | 122 | 125 | 24 | 117 | 119 | 122 | 24 | --- | --- | --- | 0 | 119 | 120 | 122 | 24 | 124 | 124 | 125 | 24 |
| 6/4 | 118 | 119 | 121 | 24 | 115 | 116 | 120 | 24 | --- | --- | --- | 0 | 119 | 120 | 121 | 24 | 124 | 124 | 124 | 24 |
| 6/5 | 117 | 118 | 119 | 24 | 115 | 116 | 117 | 24 | --- | --- | --- | 0 | 118 | 119 | 119 | 24 | 124 | 124 | 125 | 24 |
| 6/6 | 117 | 117 | 117 | 24 | 113 | 113 | 114 | 24 | --- | --- | --- | 0 | 116 | 117 | 118 | 24 | 123 | 124 | 124 | 24 |
| 6/7 | 116 | 117 | 118 | 24 | 112 | 113 | 113 | 24 | --- | --- | --- | 0 | 115 | 116 | 116 | 24 | 122 | 122 | 122 | 24 |
| 6/8 | 116 | 117 | 117 | 24 | 112 | 112 | 113 | 24 | --- | --- | --- | 0 | 116 | 116 | 117 | 24 | 122 | 123 | 124 | 24 |
| 6/9 | 116 | 117 | 118 | 24 | 113 | 114 | 114 | 24 | --- | --- | --- | 0 | 115 | 117 | 117 | 24 | 123 | 124 | 124 | 24 |
| 6/10 | 116 | 117 | 118 | 24 | 110 | 111 | 111 | 24 | --- | --- | --- | 0 | 110 | 111 | 112 | 24 | 123 | 124 | 124 | 24 |
| 6/11 | 117 | 118 | 119 | 24 | 110 | 111 | 111 | 24 | --- | --- | --- | 0 | 113 | 115 | 115 | 24 | 122 | 122 | 123 | 24 |
| 6/12 | 118 | 119 | 121 | 24 | 112 | 113 | 114 | 23 | --- | --- | --- | 0 | 117 | 119 | 120 | 24 | 124 | 124 | 125 | 24 |

Two-Week Summary of Passage Indices

Source: Fish Passage Center

Updated: 6/13/2008 11:37

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) | |
| 05/30/2008 | * | --- | 0 | --- | --- | 8,740 | 27,348 | 18,619 | 437 | --- | 71,801 | 10,604 |
| 05/31/2008 | * | --- | 0 | --- | --- | 7,427 | 22,373 | 10,575 | 352 | 23,362 | 49,788 | 15,548 |
| 06/01/2008 | * | --- | 0 | --- | --- | 7,364 | 29,923 | 11,562 | 292 | --- | 26,226 | 5,959 |
| 06/02/2008 | * | --- | 0 | --- | --- | 3,932 | 23,159 | 9,596 | 233 | 12,851 | 22,624 | 2,911 |
| 06/03/2008 | * | --- | 0 | --- | --- | 5,871 | 23,781 | 12,768 | 169 | --- | 14,539 | 2,609 |
| 06/04/2008 | * | --- | 0 | --- | --- | 4,248 | 17,849 | 11,137 | 214 | 11,991 | 12,128 | 2,414 |
| 06/05/2008 | * | --- | 0 | --- | --- | 2,952 | 10,556 | 11,361 | 161 | --- | 10,136 | 1,749 |
| 06/06/2008 | * | --- | 1 | --- | --- | 4,248 | 8,881 | 5,290 | 212 | 8,035 | 12,662 | 1,305 |
| 06/07/2008 | * | --- | 1 | --- | --- | 2,437 | 6,710 | 3,731 | 135 | --- | 8,654 | 859 |
| 06/08/2008 | * | --- | 1 | --- | --- | 2,482 | 5,837 | 3,038 | 144 | 9,157 | 8,543 | 1,574 |
| 06/09/2008 | * | --- | --- | --- | --- | 2,539 | 3,449 | 1,330 | 199 | --- | 7,159 | 1,916 |
| 06/10/2008 | * | --- | 2 | --- | --- | 2,035 | 5,049 | 1,610 | 158 | 10,886 | 7,822 | 1,602 |
| 06/11/2008 | * | --- | 1 | --- | --- | 2,493 | --- | 2,308 | 173 | --- | 5,520 | 1,494 |
| 06/12/2008 | * | --- | 2 | --- | --- | 2,089 | 3,533 | 1,525 | 174 | 6,855 | 5,058 | 964 |
| 06/13/2008 | * | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Total: | | 0 | 8 | 0 | 0 | 58,857 | 188,448 | 104,450 | 3,053 | 83,137 | 262,660 | 51,508 |
| # Days: | | 0 | 12 | 0 | 0 | 14 | 13 | 14 | 14 | 7 | 14 | 14 |
| Average: | | 0 | 1 | 0 | 0 | 4,204 | 14,496 | 7,461 | 218 | 11,877 | 18,761 | 3,679 |
| YTD | | 56,037 | 78,597 | 19,672 | 13,632 | 3,556,586 | 2,706,167 | 1,959,037 | 21,782 | 1,334,784 | 1,654,643 | 1,268,917 |

| 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) | |
| 05/30/2008 | * | --- | 0 | --- | --- | 8,532 | 2,765 | 545 | 39 | --- | 24,737 | 3,805 |
| 05/31/2008 | * | --- | 0 | --- | --- | 13,347 | 4,431 | 414 | 56 | 6,908 | 20,488 | 4,963 |
| 06/01/2008 | * | --- | 0 | --- | --- | 13,754 | 5,121 | 623 | 41 | --- | 13,738 | 5,077 |
| 06/02/2008 | * | --- | 0 | --- | --- | 33,090 | 6,845 | 298 | 28 | 5,342 | 10,199 | 4,076 |
| 06/03/2008 | * | --- | 0 | --- | --- | 32,514 | 24,148 | 2,016 | 36 | --- | 7,807 | 4,388 |
| 06/04/2008 | * | --- | 0 | --- | --- | 34,975 | 42,282 | 14,478 | 32 | 5,934 | 6,933 | 4,268 |
| 06/05/2008 | * | --- | --- | --- | --- | 20,773 | 33,336 | 14,970 | 18 | --- | 6,915 | 4,134 |
| 06/06/2008 | * | --- | 0 | --- | --- | 15,335 | 33,703 | 19,984 | 48 | 4,381 | 7,061 | 3,852 |
| 06/07/2008 | * | --- | 0 | --- | --- | 8,357 | 27,032 | 13,990 | 29 | --- | 5,325 | 2,992 |
| 06/08/2008 | * | --- | 0 | --- | --- | 10,024 | 34,751 | 15,150 | 29 | 5,840 | 3,961 | 3,535 |
| 06/09/2008 | * | --- | --- | --- | --- | 7,351 | 25,599 | 15,266 | 29 | --- | 6,682 | 3,945 |
| 06/10/2008 | * | --- | 0 | --- | --- | 12,166 | 21,811 | 12,533 | 32 | 7,941 | 5,215 | 2,635 |
| 06/11/2008 | * | --- | 0 | --- | --- | 24,983 | --- | 14,413 | 39 | --- | 5,613 | 3,575 |
| 06/12/2008 | * | --- | 0 | --- | --- | 15,820 | 37,592 | 10,941 | 94 | 12,000 | 6,657 | 3,857 |
| 06/13/2008 | * | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Total: | | 0 | 0 | 0 | 0 | 251,021 | 299,416 | 135,621 | 550 | 48,346 | 131,331 | 55,102 |
| # Days: | | 0 | 12 | 0 | 0 | 14 | 13 | 14 | 14 | 7 | 14 | 14 |
| Average: | | 0 | 0 | 0 | 0 | 17,930 | 23,032 | 9,687 | 39 | 6,907 | 9,381 | 3,936 |
| YTD | | 0 | 0 | 2 | 119 | 324,949 | 344,945 | 146,708 | 2,592 | 136,576 | 164,577 | 2,090,384 |

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) | |
| 05/30/2008 | * | --- | 0 | --- | --- | 728 | 3,265 | 1,420 | 1,469 | --- | 17,137 | 6,071 |
| 05/31/2008 | * | --- | 0 | --- | --- | 753 | 2,385 | 1,042 | 2,143 | 6,364 | 15,161 | 4,909 |
| 06/01/2008 | * | --- | 0 | --- | --- | 975 | 1,730 | 527 | 1,431 | --- | 11,031 | 2,865 |
| 06/02/2008 | * | --- | 0 | --- | --- | 437 | 2,920 | 353 | 2,237 | 3,848 | 7,719 | 1,746 |
| 06/03/2008 | * | --- | 0 | --- | --- | 790 | 2,343 | 960 | 1,353 | --- | 4,977 | 2,109 |
| 06/04/2008 | * | --- | 0 | --- | --- | 111 | 1,702 | 343 | 1,270 | 4,709 | 4,544 | 1,273 |
| 06/05/2008 | * | --- | --- | --- | --- | 219 | 427 | 401 | 1,164 | --- | 4,597 | 1,293 |
| 06/06/2008 | * | --- | 0 | --- | --- | 104 | 384 | 367 | 928 | 5,867 | 6,455 | 1,019 |
| 06/07/2008 | * | --- | 0 | --- | --- | 199 | 507 | 67 | 599 | --- | 5,376 | 827 |
| 06/08/2008 | * | --- | 0 | --- | --- | 143 | 73 | 69 | 661 | 3,986 | 4,582 | 876 |
| 06/09/2008 | * | --- | --- | --- | --- | 45 | 428 | 28 | 670 | --- | 3,436 | 1,715 |
| 06/10/2008 | * | --- | 0 | --- | --- | 43 | 292 | 21 | 399 | 3,106 | 3,159 | 1,059 |
| 06/11/2008 | * | --- | 0 | --- | --- | 0 | --- | 0 | 286 | --- | 1,892 | 928 |
| 06/12/2008 | * | --- | 0 | --- | --- | 50 | 0 | 53 | 226 | 2,258 | 1,714 | 452 |
| 06/13/2008 | * | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Total: | | 0 | 0 | 0 | 0 | 4,597 | 16,456 | 5,651 | 14,836 | 30,138 | 91,780 | 27,142 |
| # Days: | | 0 | 12 | 0 | 0 | 14 | 13 | 14 | 14 | 7 | 14 | 14 |
| Average: | | 0 | 0 | 0 | 0 | 328 | 1,266 | 404 | 1,060 | 4,305 | 6,556 | 1,939 |
| YTD | | 0 | 0 | 0 | 326 | 108,881 | 165,742 | 142,517 | 50,796 | 162,999 | 351,994 | 347,851 |

| 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) | |
| 05/30/2008 | * | --- | 7 | --- | --- | 30,174 | 25,516 | 15,822 | 278 | --- | 25,803 | 2,590 |
| 05/31/2008 | * | --- | 0 | --- | --- | 23,143 | 27,243 | 10,138 | 374 | 3,543 | 20,490 | 3,775 |
| 06/01/2008 | * | --- | 0 | --- | --- | 25,558 | 34,662 | 10,653 | 429 | --- | 17,901 | 1,542 |
| 06/02/2008 | * | --- | 0 | --- | --- | 14,962 | 37,970 | 8,766 | 302 | 4,026 | 13,116 | 2,114 |
| 06/03/2008 | * | --- | 0 | --- | --- | 16,934 | 27,756 | 12,416 | 216 | --- | 10,343 | 1,279 |
| 06/04/2008 | * | --- | 0 | --- | --- | 9,305 | 17,403 | 10,451 | 245 | 3,468 | 11,357 | 991 |
| 06/05/2008 | * | --- | --- | --- | --- | 6,779 | 13,850 | 8,688 | 266 | --- | 8,329 | 1,340 |
| 06/06/2008 | * | --- | 79 | --- | --- | 8,185 | 13,067 | 7,494 | 191 | 2,277 | 6,271 | 923 |
| 06/07/2008 | * | --- | 77 | --- | --- | 5,074 | 9,784 | 5,196 | 141 | --- | 4,966 | 796 |
| 06/08/2008 | * | --- | 52 | --- | --- | 6,826 | 10,664 | 2,582 | 133 | 1,560 | 5,060 | 566 |
| 06/09/2008 | * | --- | --- | --- | --- | 3,876 | 6,560 | 3,056 | 207 | --- | 3,532 | 629 |
| 06/10/2008 | * | --- | 66 | --- | --- | 4,632 | 4,099 | 2,645 | 138 | 1,466 | 2,557 | 904 |
| 06/11/2008 | * | --- | 29 | --- | --- | 3,398 | --- | 1,708 | 136 | --- | 2,360 | 379 |
| 06/12/2008 | * | --- | 13 | --- | --- | 3,582 | 5,279 | 1,844 | 109 | 1,284 | 1,803 | 331 |
| 06/13/2008 | * | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Total: | | 0 | 323 | 0 | 0 | 162,428 | 233,853 | 101,459 | 3,165 | 17,624 | 133,888 | 18,159 |
| # Days: | | 0 | 12 | 0 | 0 | 14 | 13 | 14 | 14 | 7 | 14 | 14 |
| Average: | | 0 | 27 | 0 | 0 | 11,602 | 17,989 | 7,247 | 226 | 2,518 | 9,563 | 1,297 |
| YTD | | 4,565 | 22,245 | 5,891 | 10,708 | 3,411,238 | 3,639,266 | 1,534,790 | 21,385 | 503,194 | 1,120,286 | 442,505 |

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) | |
| 05/30/2008 | * | --- | 0 | --- | --- | 728 | 1,760 | 1,492 | 856 | --- | 41,027 | 11,980 |
| 05/31/2008 | * | --- | 0 | --- | --- | 646 | 598 | 454 | 852 | 8,874 | 27,866 | 16,549 |
| 06/01/2008 | * | --- | 0 | --- | --- | 541 | 2,145 | 575 | 456 | --- | 16,235 | 9,425 |
| 06/02/2008 | * | --- | 0 | --- | --- | 218 | 1,924 | 651 | 520 | 6,551 | 10,046 | 4,867 |
| 06/03/2008 | * | --- | 0 | --- | --- | 677 | 1,083 | 1,184 | 306 | --- | 6,441 | 2,386 |
| 06/04/2008 | * | --- | 0 | --- | --- | 223 | 183 | 1,028 | 196 | 4,568 | 5,928 | 2,014 |
| 06/05/2008 | * | --- | --- | --- | --- | 109 | 940 | 0 | 114 | --- | 5,422 | 1,781 |
| 06/06/2008 | * | --- | 0 | --- | --- | 104 | 1,146 | 917 | 89 | 3,926 | 6,995 | 1,592 |
| 06/07/2008 | * | --- | 0 | --- | --- | 50 | 725 | 333 | 81 | --- | 4,812 | 1,369 |
| 06/08/2008 | * | --- | 0 | --- | --- | 191 | 290 | 511 | 47 | 6,420 | 4,201 | 1,282 |
| 06/09/2008 | * | --- | --- | --- | --- | 45 | 428 | 168 | 56 | --- | 4,056 | 1,630 |
| 06/10/2008 | * | --- | 0 | --- | --- | 43 | 363 | 106 | 57 | 5,284 | 4,412 | 1,343 |
| 06/11/2008 | * | --- | 0 | --- | --- | 49 | --- | 75 | 85 | --- | 2,902 | 816 |
| 06/12/2008 | * | --- | 0 | --- | --- | 50 | 0 | 0 | 77 | 3,061 | 1,627 | 964 |
| 06/13/2008 | * | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Total: | | 0 | 0 | 0 | 0 | 3,674 | 11,585 | 7,494 | 3,792 | 38,684 | 141,970 | 57,998 |
| # Days: | | 0 | 12 | 0 | 0 | 14 | 13 | 14 | 14 | 7 | 14 | 14 |
| Average: | | 0 | 0 | 0 | 0 | 262 | 891 | 535 | 271 | 5,526 | 10,141 | 4,143 |
| YTD | | 37 | 0 | 0 | 111 | 27,025 | 35,610 | 45,292 | 37,420 | 217,996 | 323,203 | 136,225 |

* 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:

6/13/08 11:37 AM

| | | 05/30/08 | TO | 06/13/08 | | | |
|--------------------------------|--------------------------|----------|---------|----------|--------|---------|-------------|
| Site | Data | Species | | | | | Grand Total |
| | | CH0 | CH1 | CO | SO | ST | |
| LGR | Sum of NumberCollected | 120,225 | 28,217 | 2,150 | 1,725 | 77,153 | 229,470 |
| | Sum of NumberBarged | 118,487 | 26,600 | 2,147 | 1,713 | 70,800 | 219,747 |
| | Sum of NumberBypassed | 1 | 1,529 | 0 | 0 | 6,292 | 7,822 |
| | Sum of Numbertrucked | 0 | 0 | 0 | 0 | 0 | 0 |
| | Sum of SampleMorts | 63 | 9 | 0 | 0 | 6 | 78 |
| | Sum of FacilityMorts | 715 | 79 | 3 | 12 | 55 | 864 |
| | Sum of ResearchMorts | 959 | 0 | 0 | 0 | 0 | 959 |
| | Sum of TotalProjectMorts | 1,737 | 88 | 3 | 12 | 61 | 1,901 |
| LGS | Sum of NumberCollected | 186,831 | 113,213 | 9,803 | 7,111 | 141,315 | 458,273 |
| | Sum of NumberBarged | 206,868 | 114,065 | 9,811 | 7,147 | 142,560 | 480,451 |
| | Sum of NumberBypassed | 1,575 | 696 | 39 | 46 | 863 | 3,219 |
| | Sum of Numbertrucked | 0 | 0 | 0 | 0 | 0 | 0 |
| | Sum of SampleMorts | 13 | 14 | 0 | 3 | 3 | 33 |
| | Sum of FacilityMorts | 172 | 1,874 | 3 | 15 | 214 | 2,278 |
| | Sum of ResearchMorts | 0 | 0 | 0 | 0 | 0 | 0 |
| | Sum of TotalProjectMorts | 185 | 1,888 | 3 | 18 | 217 | 2,311 |
| LMN | Sum of NumberCollected | 94,602 | 71,842 | 3,925 | 5,170 | 70,122 | 245,661 |
| | Sum of NumberBarged | 94,161 | 71,686 | 3,924 | 5,170 | 68,219 | 243,160 |
| | Sum of NumberBypassed | 354 | 38 | 0 | 0 | 1,848 | 2,240 |
| | Sum of Numbertrucked | 0 | 0 | 0 | 0 | 0 | 0 |
| | Sum of SampleMorts | 4 | 6 | 0 | 0 | 7 | 17 |
| | Sum of FacilityMorts | 83 | 112 | 1 | 0 | 48 | 244 |
| | Sum of ResearchMorts | 0 | 0 | 0 | 0 | 0 | 0 |
| | Sum of TotalProjectMorts | 87 | 118 | 1 | 0 | 55 | 261 |
| MCN | Sum of NumberCollected | 21,270 | 36,652 | 13,267 | 17,195 | 7,684 | 96,068 |
| | Sum of NumberBarged | 0 | 0 | 0 | 0 | 0 | 0 |
| | Sum of NumberBypassed | 21,102 | 36,410 | 13,236 | 17,114 | 7,650 | 95,512 |
| | Sum of Numbertrucked | 0 | 0 | 0 | 0 | 0 | 0 |
| | Sum of SampleMorts | 19 | 32 | 2 | 14 | 4 | 71 |
| | Sum of FacilityMorts | 146 | 204 | 28 | 64 | 30 | 472 |
| | Sum of ResearchMorts | 3 | 6 | 1 | 3 | 0 | 13 |
| | Sum of TotalProjectMorts | 168 | 242 | 31 | 81 | 34 | 556 |
| Total Sum of NumberCollected | | 422,928 | 249,924 | 29,145 | 31,201 | 296,274 | 1,029,472 |
| Total Sum of NumberBarged | | 419,516 | 212,351 | 15,882 | 14,030 | 281,579 | 943,358 |
| Total Sum of NumberBypassed | | 23,032 | 38,673 | 13,275 | 17,160 | 16,653 | 108,793 |
| Total Sum of Numbertrucked | | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Sum of SampleMorts | | 99 | 61 | 2 | 17 | 20 | 199 |
| Total Sum of FacilityMorts | | 1,116 | 2,269 | 35 | 91 | 347 | 3,858 |
| Total Sum of ResearchMorts | | 962 | 6 | 1 | 3 | 0 | 972 |
| Total Sum of TotalProjectMorts | | 2,177 | 2,336 | 38 | 111 | 367 | 5,029 |

YTD Transportation Summary

Source: Fish Passage Center

Updated:

6/13/08 11:37 AM

TO: 06/13/08

| | | Species | | | | | |
|--------------------------------|--------------------------|---------|-----------|---------|---------|-----------|-------------|
| Site | Data | CH0 | CH1 | CO | SO | ST | Grand Total |
| LGR | Sum of NumberCollected | 153,918 | 2,380,150 | 68,704 | 13,039 | 2,144,586 | 4,760,397 |
| | Sum of NumberBarged | 150,372 | 1,948,462 | 66,810 | 12,578 | 1,766,303 | 3,944,525 |
| | Sum of NumberBypassed | 1,727 | 425,949 | 1,848 | 424 | 377,434 | 807,382 |
| | Sum of NumberTrucked | 0 | 0 | 0 | 0 | 0 | 0 |
| | Sum of SampleMorts | 70 | 146 | 2 | 2 | 46 | 266 |
| | Sum of FacilityMorts | 790 | 2,804 | 44 | 35 | 803 | 4,476 |
| | Sum of ResearchMorts | 959 | 2,789 | 0 | 0 | 0 | 3,748 |
| | Sum of TotalProjectMorts | 1,819 | 5,739 | 46 | 37 | 849 | 8,490 |
| LGS | Sum of NumberCollected | 214,666 | 1,682,631 | 95,630 | 21,182 | 2,272,612 | 4,286,721 |
| | Sum of NumberBarged | 234,402 | 1,293,331 | 92,910 | 21,196 | 1,555,767 | 3,197,606 |
| | Sum of NumberBypassed | 1,865 | 389,296 | 2,765 | 67 | 718,741 | 1,112,734 |
| | Sum of NumberTrucked | 0 | 0 | 0 | 0 | 0 | 0 |
| | Sum of SampleMorts | 14 | 36 | 1 | 3 | 11 | 65 |
| | Sum of FacilityMorts | 182 | 3,404 | 4 | 16 | 418 | 4,024 |
| | Sum of ResearchMorts | 0 | 0 | 0 | 0 | 0 | 0 |
| | Sum of TotalProjectMorts | 196 | 3,440 | 5 | 19 | 429 | 4,089 |
| LMN | Sum of NumberCollected | 102,397 | 1,206,880 | 83,059 | 27,964 | 948,369 | 2,368,669 |
| | Sum of NumberBarged | 100,462 | 266,883 | 9,107 | 9,989 | 222,779 | 609,220 |
| | Sum of NumberBypassed | 1,843 | 940,203 | 73,949 | 17,975 | 725,388 | 1,759,358 |
| | Sum of NumberTrucked | 0 | 0 | 0 | 0 | 0 | 0 |
| | Sum of SampleMorts | 4 | 31 | 0 | 0 | 16 | 51 |
| | Sum of FacilityMorts | 88 | 754 | 3 | 0 | 186 | 1,031 |
| | Sum of ResearchMorts | 0 | 0 | 0 | 0 | 0 | 0 |
| | Sum of TotalProjectMorts | 92 | 785 | 3 | 0 | 202 | 1,082 |
| MCN | Sum of NumberCollected | 60,097 | 739,905 | 75,591 | 99,964 | 274,958 | 1,250,515 |
| | Sum of NumberBarged | 0 | 0 | 0 | 0 | 0 | 0 |
| | Sum of NumberBypassed | 59,890 | 739,114 | 75,532 | 99,832 | 274,710 | 1,249,078 |
| | Sum of NumberTrucked | 0 | 0 | 0 | 0 | 0 | 0 |
| | Sum of SampleMorts | 25 | 102 | 3 | 17 | 22 | 169 |
| | Sum of FacilityMorts | 174 | 625 | 53 | 104 | 204 | 1,160 |
| | Sum of ResearchMorts | 8 | 58 | 3 | 5 | 20 | 94 |
| | Sum of TotalProjectMorts | 207 | 785 | 59 | 126 | 246 | 1,423 |
| Total Sum of NumberCollected | | 531,078 | 6,009,566 | 322,984 | 162,149 | 5,640,525 | 12,666,302 |
| Total Sum of NumberBarged | | 485,236 | 3,508,676 | 168,827 | 43,763 | 3,544,849 | 7,751,351 |
| Total Sum of NumberBypassed | | 65,325 | 2,494,562 | 154,094 | 118,298 | 2,096,273 | 4,928,552 |
| Total Sum of NumberTrucked | | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Sum of SampleMorts | | 113 | 315 | 6 | 22 | 95 | 551 |
| Total Sum of FacilityMorts | | 1,234 | 7,587 | 104 | 155 | 1,611 | 10,691 |
| Total Sum of ResearchMorts | | 967 | 2,847 | 3 | 5 | 20 | 3,842 |
| Total Sum of TotalProjectMorts | | 2,314 | 10,749 | 113 | 182 | 1,726 | 15,084 |

Cumulative Adult Passage at Mainstem Dams Through: 06/12

| DAM | EndDate | Spring Chinook | | | | | | Summer Chinook | | | | | | Fall Chinook | | | | | |
|-----|---------|----------------|-------|-------|-------|------------|------|----------------|------|-------|------|------------|------|--------------|------|-------|------|------------|------|
| | | 2008 | | 2007 | | 10-Yr Avg. | | 2008 | | 2007 | | 10-Yr Avg. | | 2008 | | 2007 | | 10-Yr Avg. | |
| | | Adult | Jack | Adult | Jack | Adult | Jack | Adult | Jack | Adult | Jack | Adult | Jack | Adult | Jack | Adult | Jack | Adult | Jack |
| BON | 06/12 | 125545 | 17552 | 67482 | 16860 | 151523 | 9831 | 19911 | 3518 | 10303 | 2477 | 16153 | 1647 | 0 | 0 | 0 | 0 | 0 | 0 |
| TDA | 06/12 | 95440 | 15801 | 53524 | 15567 | 106828 | 7522 | 10827 | 2314 | 6689 | 1590 | 10001 | 960 | 0 | 0 | 0 | 0 | 0 | 0 |
| JDA | 06/12 | 81771 | 14925 | 44005 | 13864 | 89148 | 6122 | 7806 | 1545 | 4014 | 813 | 6457 | 540 | 0 | 0 | 0 | 0 | 0 | 0 |
| MCN | 06/12 | 68085 | 12133 | 39497 | 12393 | 82136 | 6227 | 4663 | 1153 | 1683 | 402 | 3539 | 356 | 0 | 0 | 0 | 0 | 0 | 0 |
| IHR | 06/11 | 53142 | 7757 | 28047 | 7308 | 54947 | 3891 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| LMN | 06/12 | 53570 | 6742 | 27801 | 6947 | 51996 | 3531 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| LGS | 06/12 | 47307 | 7345 | 22963 | 6983 | 48383 | 3481 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| LGR | 06/12 | 45348 | 9844 | 20778 | 8477 | 47744 | 3815 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PRD | 06/11 | 11598 | 598 | 6581 | 475 | 17045 | 551 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| RIS | 06/11 | 10810 | 955 | 5056 | 1846 | 13105 | 869 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| RRH | 06/11 | 3664 | 323 | 2176 | 858 | 4956 | 357 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WEL | 06/11 | 2141 | 352 | 1131 | 601 | 2721 | 194 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WFA | 06/11 | 7201 | 127 | 18297 | 173 | - | - | 0 | 0 | 0 | 0 | - | - | 0 | 0 | 0 | 0 | - | - |

| DAM | Coho | | | | | | Sockeye | | | Steelhead | | | |
|-----|-------|------|-------|------|------------|------|---------|------|------------|-----------|-------|------|-----------|
| | 2008 | | 2007 | | 10-Yr Avg. | | 2008 | 2007 | 10-Yr Avg. | 10-Yr | | | Wild 2008 |
| | Adult | Jack | Adult | Jack | Adult | Jack | | | | 2008 | 2007 | Avg. | |
| BON | 0 | 0 | 0 | 0 | 0 | 0 | 7747 | 1707 | 3061 | 5767 | 4775 | 6278 | 1296 |
| TDA | 0 | 0 | 0 | 0 | 0 | 0 | 2936 | 868 | 1723 | 1803 | 1572 | 1892 | 617 |
| JDA | -1 | 0 | 1 | 0 | 0 | 0 | 1164 | 628 | 1194 | 3830 | 2544 | 3760 | 1572 |
| MCN | 0 | 0 | 0 | 0 | 0 | 0 | 262 | 298 | 539 | 2673 | 2179 | 2109 | 1116 |
| IHR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3216 | 2407 | 1986 | 1178 |
| LMN | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4058 | 2442 | 1993 | 1770 |
| LGS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2674 | 2354 | 2217 | 1045 |
| LGR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7797 | 10602 | 7447 | 2475 |
| PRD | 0 | 0 | 0 | 1 | 0 | 0 | 3 | 34 | 61 | 171 | 55 | 17 | 0 |
| RIS | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 4 | 320 | 53 | 45 | 154 |
| RRH | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 1 | 2 | 572 | 177 | 135 | 271 |
| WEL | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 187 | 49 | 24 | 122 |
| WFA | 0 | 0 | 2 | 0 | - | - | 0 | 0 | - | 13598 | 12639 | - | - |

BON and LGR have switched to video counts so the data is delayed.

*PRD is not posting wild steelhead numbers.

These numbers were collected from USACE, Grant PUD, Douglas PUD, Chelan PUD, ODFW and DART.

Wild steelhead numbers are included in the total. Wild Steelhead are defined as unclipped fish.

Historic counts (pre-1996) were obtained from CRITFC and compiled by the FPC.

Historic counts 1997 to present were obtained from the Corps of Engineers.

Page last updated on: 06/13/08

BON counts from January 1, 2008 to March 14, 2008 (our traditional counts begin March 15):

| Year | Chinook Adult | Chinook Jack | Steelhead | Wild Steelhead |
|------|---------------|--------------|-----------|----------------|
| 2008 | 42 | 0 | 578 | 278 |
| 2007 | 22 | 0 | 1,677 | 517 |